UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

July 10, 2012

Commander,
Radford Army Ammunition Plant
Attn: SJMRF-OP-EQ (Jim McKenna)
P.O. Box 2
Radford, VA 24141-0099

Bob Winstead
Environmental Manager
BAE Systems Ordnance Systems, Inc.
Radford Army Ammunition Plant
P.O. Box 1
Radford, VA 24141-0100

VIA Electronic Mail

Re: Radford Army Ammunition Plant, Radford, Virginia
Solid Waste Management Unit 40
Landfill Nitro Area
Interim Measures Completion Report

Dear Mr. McKenna and Mr. Winstead:

The U.S. Environmental Protection Agency (EPA) and Virginia Department of Environmental Quality (VDEQ) have reviewed the U.S. Army's (Army's) Solid Waste Management Unit 40 (SWMU), Landfill Nitro Area Interim Measures Completion Report, for SWMU 40 located at the Radford Army Ammunition Plant (RFAAP) in Radford, Virginia. Based upon our review, the Completion Report is approved, and in accordance with Part II. (E)(5) of RFAAP's Corrective Action Permit, the Completion Report is considered final. If you have any questions, please call me at 215-814-3284.

Sincerely,

Erich Weissbart

Erich Weissbart, P.G.
RCRA Project Manager
Office of Remediation (3LC20)

c: James Cutler, VDEQ

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June 12, 2012

Mr. Erich Weissbart
RCRA General Operations Branch, Mail Code: 3WC23
Waste and Chemicals Management Division
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Mr. James L. Cutler, Jr.
Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219

Subject: With Certification, Solid Waste Management Unit 40 (RAAP-009), Landfill Nitro Area, Interim Measures Completion Report, Final May 2012
EPA ID# VA1 210020730

Dear Mr. Weissbart and Mr. Cutler:

Enclosed is the certification for the subject document that was sent to you on May 24, 2012. Also enclosed is the May24, 2012 transmittal email.

Please coordinate with and provide any questions or comments to myself at (423) 578 6253 or Jim McKenna, ACO Staff (540) 731-5782.

Sincerely,

Bob Winstead, Environmental Manager
BAE Systems

c: Karen Sismour
Virginia Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

E. A. Lohman
Virginia Department of Environmental Quality
Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke, VA 24019

Rich Mendoza
US Army Environmental Center
2450 Connell Rd., Bldg 2264, 1st Fl, Rm126
Attn: Richard Mendoza
San Antonio, TX 78234-7664

Tom Meyer
Corps of Engineers, Baltimore District
ATTN: CENAB-EN-HM
10 South Howard Street
Baltimore, MD 21201

bc: Administrative File
J. McKenna, ACO Staff
Rob Davie-ACO Staff
P.W. Holt
J. J. Redder
Env. File

Coordination: J. McKenna ~~M. A. Miano~~

Concerning the following:

Radford Army Ammunition Plant
Solid Waste Management Unit 40 (RAAP-009)
Landfill Nitro Area Interim Measures Completion Report
Final May 2012

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

SIGNATURE:
PRINTED NAME: Wm Byron Penland
TITLE: Lieutenant Colonel, US Army
Commanding

SIGNATURE:
PRINTED NAME: Todd D. Hayes
TITLE: Director, Facility Support Services
BAE Systems

From: McKenna, James J CIV (US) [mailto:james.j.mckenna16.civ@mail.mil]
Sent: Thursday, May 24, 2012 8:32 AM
To: Cutler,Jim; Weissbart.Erich@epamail.epa.gov
Cc: Mary Lou Rochotte; Jonah Anderson; Bob Winstead (bob.winstead@baesystems.com); Jeremy Flint (jeremy.flint@atk.com); Paige Holt (paige.holt@atk.com); Meyer, Tom NAB02; Mendoza, Richard R Jr CIV (US); Leach, Jeffrey G CIV (US); Davie, Robert N III CIV (US); Ryan, Susan M CIV USARMY IMCOM AEC (US)
Subject: RFAAP Final SWMU 40 IMCR May 2012

All,
The contractor will ship the subject document to the POCs with tracking numbers listed in the distribution below. Certification will follow under separate cover. Responses to EPA and DEQ comments are provided below.

The comments were limited to Mr. Jim Cutler, VDEQ, comments via email on April 15, 2012. Mr. Erich Weissbart, USEPA, concurred with Mr. Cutler's comments in his April 16, 2012 email. Responses to the comments are provided below, and incorporated into the final IMCR report version that is attached.
Jim Cutler, VDEQ Comments, April 15, 2012:

Comment 1: The discussion in section 2.2 indicates that a clay cap/cover was placed over the area surrounding the exposed PCB location. Does the Earthwork legend description in Figure 3 represent the extent of this cap?

Response: Yes, Figure 3 represents the extent of the clay cap/cover which is consistent with the approved Interim Measures Work Plan and the RFI/CMS.

Comment 2: It would be helpful to incorporate information provided in 11/16/11 email to Jim McKenna into section 3.1.

Response: The requested information has been added into the attached IMCR report in section 3.1, page 6, paragraph 4 and stated as follows: "A small, approximate six (6) inch water bearing zone was encountered at148 feet below ground surface. This zone appeared to be the target depth of the well based on review of the geophysical information in the approved RFI/CMS, the depths of 40MW5 and 40MW6, and the potentiometric surface map. The well was drilled past the 148 foot depth below ground surface water bearing zone to achieve a final depth of 190 feet below ground surface which was approximately equivalent to the total depths in 40MW6 and 40MW5. The additional drilling was to ensure that no other water bearing zone existed below the encountered zone at 148 feet. As drilling proceeded from the 148 foot depth interval, competent rock continued to be observed and logged for an additional 42 feet with no fracture zones present to the 190 foot total depth. Through discussion and concurrence with the Army, USEPA and VDEQ, the 148 foot below ground surface water bearing zone was decided to be the "possible karst feature or fracture zone" as indicated within the RFI/CMS. The bore hole was filled with bentonite to approximately 167 feet below ground surface and then construction of the monitoring well began. UXB-KEMRON set the well screen with the 148 foot depth interval in the upper portion of the screen to try to maximize the ability for the well to provide sufficient groundwater

quantity for the full suite of parameters included in the LTM sampling and analysis."

Erich Weissbart, USEPA Comments, April 16, 2012:

Comment 1: Please have your team address Jim Cutler's comments below and finalize the SWMU 40 IM completion report.

Response: All comments are addressed above and incorporated in the revised report for Agency final approval.

Thank you for your support of the Radford AAP Installation Restoration Program.
Jim McKenna

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James Cutler, VDEQ – 1 paper copy and 1 CD – 7935 9996 7478

Karen Sismour, VDEQ – 1 CD copy – 7984 3051 9677

Elizabeth A. Lohman, VDEQ – 1 CD copy – 7935 9999 6658

From: McKenna, James J CIV (US) [james.j.mckenna16.civ@mail.mil]
Sent: Wednesday, May 16, 2012 10:34 AM
To: Mary Lou Rochotte; Jonah Anderson
Cc: Meyer, Tom NAB02; Mendoza, Richard R Jr CIV (US); Bob Winstead (bob.winstead@baesystems.com); Jeremy Flint (jeremy.flint@atk.com)
Subject: FW: VDEQ comments SWMU 40 IM completion report (UNCLASSIFIED)
Attachments: FW: summary of regulator call and status update (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Mary Lou, Jonah,

Please see email below for regulatory review comments that need to be addressed. Regarding Comment No., please see attached email.

Thanks,
JJM

-----Original Message-----
From: Erich Weissbart [mailto:Weissbart.Erich@epamail.epa.gov]
Sent: Wednesday, May 16, 2012 7:43 AM
To: McKenna, Jim J Mr CIV USA AMC
Subject: Fw: VDEQ comments SWMU 40 IM completion report

Please have your team address Jim Cutler's comments below and finalize the SWMU 40 IM completion report.

Erich Weissbart P.G.
Land and Chemicals Division (3LC20)
US EPA Region III
1650 Arch Street
Philadelphia, PA 19103
Phone: 215-814-3284
e-mail: weissbart.erich@epa.gov
----- Forwarded by Erich Weissbart/R3/USEPA/US on 05/16/2012 07:41 AM -----

From: "Cutler, Jim (DEQ)" <James.Cutler@deq.virginia.gov>
To: Erich Weissbart/R3/USEPA/US@EPA
Date: 05/15/2012 12:01 PM
Subject: VDEQ comments SWMU 40 IM completion report

_____

Erich,

VDEQ has reviewed the Interim Measures Completion Report for SWMU 40 at RAAP and has the following comments:

1. The discussion in section 2.2 indicates that a clay cap/cover was placed over the area surrounding the exposed PCB location. Does the Earthwork legend description in Figure 3 represent the extent of this cap?

2. It would be helpful to incorporate information provided in 11/16/11 email to Jim McKenna into section 3.1.

Please contact me if you have any questions regarding these comments.

Thanks,

Jim

James L. Cutler Jr.
Federal Facilities Project Manager
Office of Remediation Programs
Virginia Dept. of Environmental Quality
804-698-4498

Classification: UNCLASSIFIED
Caveats: FOUO

DEPARTMENT OF THE ARMY
US ARMY INSTITUTE OF PUBLIC HEALTH
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND MARYLAND 21010-5403

MCHB-IP-REH

27 APR 2012

MEMORANDUM FOR Office of Environmental Quality (SJMRF-OP-EQ/Mr. Jim McKenna), Radford Army Ammunition Plant, P.O. Box 2, Radford, VA 24143-0002

SUBJECT: Draft Final, Performance Based Acquisition Solid Waste Management Unit 40 (RAAP-009) Landfill Nitro Area Interim Measures Completion Report, Radford Army Ammunition Plant, Radford, Virginia 24141, March 2012

1. The Army Institute of Public Health reviewed the subject document on behalf of the Office of The Surgeon General pursuant to Army Regulation 200-1 (Environmental Protection and Enhancement). We appreciate the opportunity to review this report.

2. We concur with the completed interim measures and general recommendations presented in the document.

3. The document was reviewed by Mr. James Bressette, Environmental Health Risk Assessment Program. He can be reached at DSN 584-4140, commercial (410) 436-4140 or electronic mail: James.W.Bressette@us.army.mil.

FOR THE DIRECTOR:

JEFFREY S. KIRKPATRICK
Portfolio Director, Health Risk Management

CF:
HQDA (DASG-PPM-NC)
USACE (CEHNC-CX-ES)
PHCR-North
IMCOM, ATRO (IMAT-PA)

BAE SYSTEMS

ORDNANCE SYSTEMS INC.
6580 Valley Center Drive, Suite 333
Radford, VA 24141
Telephone: 540-267-3449

April 5, 2012

Mr. Erich Weissbart
RCRA General Operations Branch, Mail Code: 3WC23
Waste and Chemicals Management Division
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Mr. James L. Cutler, Jr.
Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219

Subject: With Certification, Solid Waste Management Unit 40 (RAAP-009), Landfill Nitro Area, Interim Measures Completion Report, Draft Final, Draft Final2012
EPA ID# VA1 210020730

Dear Mr. Weissbart and Mr. Cutler:

Enclosed is the certification for the subject document that was sent to you on March 29, 2012. Also enclosed is the March 29, 2012 transmittal email.

Please coordinate with and provide any questions or comments to myself at (423) 578 6253 or Jim McKenna, ACO Staff (540) 731-5782.

Sincerely,

Bob Winstead, Environmental Manager
BAE Systems

c: Karen Sismour
Virginia Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

E. A. Lohman
Virginia Department of Environmental Quality
Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke, VA 24019

Rich Mendoza
US Army Environmental Center
2450 Connell Rd., Bldg 2264, 1st Fl, Rm126
Attn: Richard Mendoza
San Antonio, TX 78234-7664

Tom Meyer
Corps of Engineers, Baltimore District
ATTN: CENAB-EN-HM
10 South Howard Street
Baltimore, MD 21201

bc: Administrative File
J. McKenna, ACO Staff
Rob Davie-ACO Staff
P.W. Holt
J. J. Redder
Env. File

Coordination: J. McKenna
J. McKenna, RFAAP

Concerning the following:

Radford Army Ammunition Plant
Solid Waste Management Unit 40 (RAAP-009)
Landfill Nitro Area Interim Measures Completion Report
Draft Final March 2012

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

SIGNATURE:
PRINTED NAME: Wm Byron Penland
TITLE: Lieutenant Colonel, US Army
Commanding

SIGNATURE: for
PRINTED NAME: Todd D. Hayes
TITLE: Director, Facility Support Services
BAE Systems

From: McKenna, Jim J Mr CIV USA AMC [mailto:jim.mckenna@us.army.mil]
Sent: Thursday, March 29, 2012 8:32 AM
To: ealohman@deq.virginia.gov; bob.winstead@baesystems.com; Cutler,Jim; jeremy.flint@atk.com; Jonah Anderson; Mary Lou Rochotte; Mendoza, Richard R Mr CIV USA IMCOM AEC; Meyer, Tom NAB02; Weissbart.Erich@epamail.epa.gov
Subject: Draft Final PBA SWMU 40 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

All,

The contractor will ship the subject document to the POCs with tracking numbers listed in the distribution below. Certification will follow under separate cover.

Thank you for your support of the Radford AAP Installation Restoration Program.
Jim McKenna

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Karen Sismour, VDEQ – 1 CD copy - #7933 9166 9719

Elizabeth A. Lohman, VDEQ – 1 CD copy - #7982 2221 3254

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DEPARTMENT OF THE ARMY
US ARMY INSTITUTE OF PUBLIC HEALTH
5158 BLACKHAWK ROAD
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MCHB-IP-REH

22 MAR 2012

MEMORANDUM FOR Office of Environmental Quality (SJMRF-OP-EQ/Mr. Jim McKenna), Radford Army Ammunition Plant, P.O. Box 2, Radford, VA 24143-0002

SUBJECT: Review of Draft SWMU 40, RAAP-09 Interim Measures Completion Report, Radford Army Ammunition Plant, Virginia, January 2012

1. The Army Institute of Public Health reviewed the subject document on behalf of the Office of The Surgeon General pursuant to Army Regulation 200-1 (Environmental Protection and Enhancement). We appreciate the opportunity to review this report.

2. We concur that the completed interim measures are protective of human health and the environment.

3. This document was reviewed by Mr. Jeffrey Leach, Environmental Health Risk Assessment Program. He can be reached at DSN 584-2953, commercial (410) 436-2953 or electronic mail, Jeff.Leach@us.army.mil.

FOR THE DIRECTOR:

JEFFREY S. KIRKPATRICK
Portfolio Director, Health Risk Management

CF:
HQDA (DASG-PPM-NC)
USACE (CEHNC-CX-ES)
PHCR-North

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From: McKenna, James J CIV (US) [mailto:james.j.mckenna16.civ@mail.mil]
Sent: Thursday, May 24, 2012 8:32 AM
To: Cutler,Jim; Weissbart.Erich@epamail.epa.gov
Cc: Mary Lou Rochotte; Jonah Anderson; Bob Winstead (bob.winstead@baesystems.com); Jeremy Flint (jeremy.flint@atk.com); Paige Holt (paige.holt@atk.com); Meyer, Tom NAB02; Mendoza, Richard R Jr CIV (US); Leach, Jeffrey G CIV (US); Davie, Robert N III CIV (US); Ryan, Susan M CIV USARMY IMCOM AEC (US)
Subject: RFAAP Final SWMU 40 IMCR May 2012

All,
The contractor will ship the subject document to the POCs with tracking numbers listed in the distribution below. Certification will follow under separate cover. Responses to EPA and DEQ comments are provided below.

The comments were limited to Mr. Jim Cutler, VDEQ, comments via email on April 15, 2012. Mr. Erich Weissbart, USEPA, concurred with Mr. Cutler's comments in his April 16, 2012 email. Responses to the comments are provided below, and incorporated into the final IMCR report version that is attached.
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quantity for the full suite of parameters included in the LTM sampling and analysis."

Erich Weissbart, USEPA Comments, April 16, 2012:

Comment 1: Please have your team address Jim Cutler's comments below and finalize the SWMU 40 IM completion report.

Response: All comments are addressed above and incorporated in the revised report for Agency final approval.

Thank you for your support of the Radford AAP Installation Restoration Program.
Jim McKenna

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RADFORD ARMY AMMUNITION PLANT
RADFORD, VIRGINIA

Performance Based Acquisition
Solid Waste Management Unit 40 (RAAP-009)
Landfill Nitro Area
Interim Measures Completion Report

FINAL

May 2012

PREPARED BY:

UXB-KEMRON Remediation Services, LLC
2020 Kraft Drive, Suite 2100
Blacksburg, VA 24060
Tel 540.443.3700
Fax 540.443.3790
Contract No. W912DY-10-D-0027
Delivery Order Number: DA01

PREPARED FOR:

Baltimore District US Army Corp of Engineers
Thomas P. Meyer
Contracting Officer's Representative
HTRW Military
10 South Howard Street, Room 7000
Baltimore, MD 21201

Radford Army Ammunition Plant
Attn: Mr. Jim McKenna
SIORF-SE-EQ
P.O. Box 2
Radford, VA 24141-0099

USAEC
Attn: Mr. Richard Mendoza
2450 Connell Road, 1st Floor, Rm. 126
Fort Sam Houston, Texas 78234

PERFORMANCE BASED ACQUISITION
INTERIM MEASURES COMPLETION REPORT
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PERFORMANCE BASED ACQUISITION
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PERFORMANCE BASED ACQUISITION
INTERIM MEASURES COMPLETION REPORT
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- Non-Hazardous Waste Manifests

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- USEPA and VDEQ approval of IMWP
- RFAAP approval to dispose of liquid IDM

PERFORMANCE BASED ACQUISITION
INTERIM MEASURES COMPLETION REPORT
TABLE OF CONTENTS
(CONTINUED)

LIST OF ABBREVIATIONS AND ACRONYMS

AEDB-R	Army Environmental Database-Restoration
CFR	Code of Federal Regulations
CL	Clay
CMOs	Corrective Measures Objectives
CMS	Corrective Measures Study
COD	Chemical Oxygen Demand
COPC	Contaminant of Potential Concern
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
ECs	Engineering Controls
FT MSL	Feet Above Mean Sea Level
HI	Hazard Index
IDM	Investigation Derived Material
IM	Interim Measures
IMCR	Interim Measures Completion Report
IMWP	Interim Measures Work Plan
I-RBC	Industrial Risk Based Concentration
IRP	Installation Restoration Program
LOD	Limit of Detection
LTM	Long Term Monitoring
MMA	Main Manufacturing Area
MWP	Master Work Plan
MSP	Master Site Plan
NCR	Notification Control Report
NRU	New River Unit
NTP	Notice to Proceed
OSHA	Occupational Safety and Health Administration
PAHs	Polycyclic Aromatic Hydrocarbons
PBA TO	Performance Based Acquisition Firm Fixed Price Task Order
PCBs	Polychlorinated Biphenyls
PM	Project Manager
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFAAP	Radford Army Ammunition Plant
RFI	RCRA Facility Investigation
SOP	Standard Operating Procedure
SVOCs	Semi-Volatile Organic Compounds
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure

T-RBC	Tapwater Risk Based Concentration
URS	URS Corporation
USACE	United States Army Corp of Engineers
USEPA	United State Environmental Protection Agency
UXB-KEMRON	UXB-KEMRON Remediation Services, LLC
VDEQ	Virginia Department of Environmental Quality
VOCs	Volatile Organic Compounds
WWTP	Waste Water Treatment Plant

1.0 INTRODUCTION

UXB-KEMRON Remediation Services, LLC (UXB-KEMRON) has been contracted by the U.S. Army Corps of Engineers (USACE) to perform Interim Measures (IM) at the Landfill Nitro Area, Solid Waste Management Area (SWMU) 40, at Radford Army Ammunition Plant (RFAAP), Radford, Virginia. This SWMU also is identified as RAAP-009 for purposes of the Army Environmental Database – Restoration (AEDB-R).

This Interim Measures Completion Report (IMCR) includes details of mobilization, installation of one additional downgradient monitoring well, repairs to the landfill cap north slope, and implementing institutional controls (ICs). All work was performed in accordance with the IM Work Plan (IMWP) as approved by the US Environmental Protection Agency (USEPA) and the Virginia Department of Environmental Quality (VDEQ) in its August 26, 2011 correspondence. In addition to the repairs specified in the IMWP, limited additional maintenance was conducted adjacent to SWMU 40 to further enhance and assure the stability of the landfill north slope and control stormwater runoff.

This SWMU 40 IM is being performed under a Performance Based Acquisition Firm Fixed Price Task Order (PBA TO) for environmental remediation services at RFAAP. The site is being addressed under the Installation Restoration Program (IRP). The Department of Defense (DoD) established the Defense Environmental Restoration Program (DERP) to address environmental contamination located on current and former military installations. Remedial action at this site also is authorized and conducted under the authority of the federal Resource Conservation and Recovery Act (RCRA). The contract was issued by the United States Army Corps of Engineers (USACE) – Baltimore located at 10 S. Howard Street, Box 1715, Room 7000 in Baltimore, Maryland. This TO # DA01 was issued under UXB-KEMRON's Worldwide Environmental Remediation Services contract, number W912DY-10-D-0027, with an award date of 30 June 2010 and a Notice to Proceed (NTP) date of 15 July 2010.

1.1 Background

1.1.1 Site Description

RFAAP is a government owned, contractor operated manufacturing facility located in southwestern Virginia approximately eight (8) miles southwest of Blacksburg. ATK Energetics Systems is the current operator along with a variety of other tenants. RFAAP consists of two noncontiguous areas, the Main Manufacturing Area (MMA) and the New River Unit (NRU). RFAAP is operating under a 2000 RCRA Corrective Action permit, with a new permit currently being negotiated.

SWMU 40 is located within the south-central portion of the MMA at RFAAP (Figure 1). Figure 2 shows the site layout, which includes the approximate 2-acre landfill area that comprises SWMU 40.

SWMU 40 consists of an undeveloped open area covered with grass. A gravel covered and fenced area used for temporary storage of asbestos is located at the eastern edge of the site (Figure 2). A paved road, identified as Landfill South Road for purposes of this IMCR, is located immediately south of the landfill area and undeveloped land borders the landfill area to the north (field) and west (wooded area).

1.1.2 Site History

The RCRA Facility Assessment (RFA) was conducted by the USEPA in 1987 and identified SWMU 40 as having the potential to release contaminants into the environment. SWMU 40 is included in the RFAAP RCRA Permit for Corrective Action (USEPA, 2000).

The Final RFI/CMS was approved by USEPA and VDEQ in April 2009. According to the Final RFI/CMS (URS, April 2009), SWMU 40 was used for the burial of materials, such as paper, office trash, concrete, and rubber tires in the 1970s and early 1980s. The unit was not permitted by the Commonwealth of Virginia as a solid waste landfill. Operations ceased and the unit was closed with a clay cap and grass cover. Subsequently, areas located northeast of the unit were used to stockpile soil derived from construction-related activities. In approximately 1991, a fenced enclosure was constructed in the northeastern corner of the SWMU 40 area for use as temporary asbestos accumulation area (Figure 2).

The results of the human health risk assessment included in the Final RFI/CMS (URS, 2009) identified that calculated cancer risks and hazard indices, when taking target organs and background into consideration, are within the USEPA target risk range for each receptor with the exception of the cumulative risk for the hypothetical future lifetime resident due primarily to arsenic and PCBs in soil. A future construction worker also had potential risk based upon potential aluminum exposure via the inhalation pathway. The RFI/CMS documented that soil Contaminants of Potential Concern (COPCs) are primarily limited to the landfill material itself with the exception of a surficial area of PCB contamination in soil located adjacent to the northern escarpment of the landfill.

Additionally, the Final RFI/CMS identified chloroform as a groundwater COPC. Extensive source characterization was conducted at SWMU 40 during the RFI, including the collection of 91 soil samples, many of which were collected from landfill material and soil below the landfill material at SWMU 40. Chloroform was not detected in these samples. The RFI/CMS notes that the lack of detections and absence of other volatile organic constituents in groundwater samples suggests a potential alternate source for chloroform in groundwater at SWMU 40. During conduct of the RFI, chloroform was detected in samples collected from wells 40MW3 (19 µg/L), 40MW5 DUP AVG (23 ug/L), and 40MW6 (24 µg/L) at concentrations above its unadjusted tapwater risk based concentration (T-RBC) (0.155 µg/L) but below the USEPA MCL of 80 µg/L for total trihalomethanes. The Final RFI/CMS notes that the landfill area is located downgradient of developed areas containing water lines that could be leaking, and which may be the source of chloroform in groundwater at SWMU 40. Therefore, based upon the site specific data, a SWMU 40 chloroform source is not identifiable. However, based upon the groundwater detections of chloroform, chloroform was retained as a COPC in groundwater at this time.

Perchlorate has been detected in numerous wells at RFAAP at low concentrations. The RFI/CMS noted that updated laboratory analytical detection limits that are lower than historic limits may be the reason for low level detections. The RFI/CMS also noted that groundwater samples located immediately adjacent to and downgradient of the landfill (40MW3, 40MW5, and 40MW6) were below the unadjusted T-RBC; therefore, perchlorate was not identified as a COPC in groundwater. However, the Army agreed to retain perchlorate as a groundwater monitoring analyte at this time, based on detections reported in the RFI/CMS.

The RAAP-009, SWMU 40 Final RFI/CMS was reviewed and approved by USEPA and VDEQ in correspondence dated 30 June 2009. The USEPA and VDEQ agreed to the use of Interim Measures as a means to accelerate closure of this site and begin long-term maintenance and monitoring. UXB-KEMRON prepared the Interim Measures Work Plan (IMWP) on behalf of the Army in conformance with the specifications detailed for Alternative 2 in the approved Final RFI/CMS. The IMWP included the repair to the landfill cap in areas impacted by surface erosion, placement of cover to address the potential exposure to the surficial area of PCB contamination in soil located adjacent to the northern escarpment of the landfill, installation of one additional downgradient monitoring well, and initiation of Long Term Monitoring and Maintenance (LTM) activities associated with cap maintenance and monitoring and groundwater monitoring. The IMWP was approved by USEPA and VDEQ on August 26, 2011.

This IMCR provides documentation of the completion of the IM. The LTM activities and resulting data are to be reported in future LTM reports, in accordance with the approved August 2011 IMWP.

1.2 Corrective Measures Objectives

The Corrective Measures Objectives (CMOs) for SWMU 40 are:

- Maintain containment of the landfill material at the site and implement necessary controls to prevent future uncontrolled human exposure to this landfill material.
- Implement any necessary measures to stabilize and repair the landfill cover at the northern edge of the landfill area to prevent any further mass transport of soil material in this area.

1.3 Project Objectives

In accordance with the *SWMU 40 Final RFI/CMS*, April 2009, and the Final IMWP, August 2011, IMs were conducted to accelerate closure of this site and begin LTM. The IMs include:

1. **Engineering Controls (ECs) and Landfill Cap Repairs:** ECs include repairs to the landfill cap where evidence of erosion has been noted, primarily the north face of the unit. Repaired areas were to be stabilized and seeded to support a vegetative cover and minimize additional erosion.
2. **Monitoring Well Installation:** Installation of 40MW7 on the downgradient side of SWMU 40. A location was preselected approximately 135 feet west-northwest of the landfill area as indicated and more fully described in the approved RAAP-009 SWMU 40 Final RFI/CMS.
3. **Long Term Monitoring and Maintenance:** Conduct of LTM per the LTM Plan.

Sections 2 through 5 of this report provide additional details of the IM implementation to achieve the project objectives.

2.0 ENGINEERING CONTROLS AND LANDFILL CAP REPAIRS

2.1 Site Preparation

Site preparation actions included performing coordination with site personnel, conduct of a pre-existing site condition inspection, establishing temporary facilities, installing decontamination areas, and establishing work zones in accordance with the approved work plan.

Site mobilization operations were completed October 17, 2011 prior to commencing the prescribed project operations. Site mobilization included mobilization of required personnel and equipment to SWMU 40. The main staging area was located on the south side of SWMU 40 on top of the landfill in accordance with the approved work plan. UXB-KEMRON minimized disturbance to the landfill cap in this staging area, to ensure that no additional exposure to or release from the landfill could potentially occur due to materials staging. Erosion and sediment control features were installed prior to any repairs or staging of materials.

UXB-KEMRON determined that clean backfill and top soil remained available from the same source as was used for clean closure of SWMU 57, RAAP-022 in 2011. Based on the backfill and topsoil having been previously demonstrated to meet unrestricted use standards, this same source was acquired for supplying additional clay for cap repair and topsoil for placement to establish vegetation. The soils were acquired from a site being used for construction of a new public school. The laboratory analysis of the soils used during the clean closure of SWMU 57 are included in Appendix A for reference. The soils were sampled at a rate of 1 sample/1,000 cubic yards. The borrow material and top soil were analyzed for Total Analyte List (TAL) metals, polycyclic aromatic hydrocarbons (PAHs), pesticides, polychlorinated biphenyls (PCBs), and pH.

2.2 Landfill Cap Repair

SWMU 40 required cap repair along the north face in order to eliminate impacts associated overland precipitation flow, resulting in creation of small gullies (Figure 2). Surface water was observed to flow across the surface of the landfill and accumulate in a localized portion of the north face of the landfill slope. Over time, surface water run-off in this portion of the north face of the landfill slope had caused erosion damage/small gullies that were localized and were less than 1-foot in depth. ECs included repairs to the existing landfill cap along the northern edge of the landfill area where erosion had occurred.

In accordance with the approved August 2011 IMWP, excavation into the landfill did not occur. Surface water overland flow on the landfill was prevented from flowing over the top edge of the north face and down the landfill north slope by the repair and construction of soil berms along the top edge of the landfill slopes to direct surface water into a lined, rip-rap drainage swale (Figure 3). The drainage swale was shaped to collect surface water at the top of the landfill slope and discharge it at the base of the landfill slope. The drainage swale was shaped by placing and compacting clean backfill within an existing erosion gully. The compacted soil swale was covered with a geotextile liner (65 mil Mirafi 160N) and riprap (6-inch nominal diameter). The geotextile liner was installed to help stabilize the slope and support the riprap. Riprap was placed to help reduce the velocity of the surface water. The rip-rap was approximately 6-inches nominal diameter and 1.5-feet in depth within the drainage swale (Figure 4).

The drainage swale was installed in the area of the largest existing gullies. Once installed, the area surrounding the drainage swale was backfilled with clean clay to fill in any other existing gullies and the existing grade was maintained to allow for mowing and maintenance of the north face of the landfill. Clay was covered with topsoil to allow for establishment of appropriate vegetative cover. Furthermore, the surrounding slope that shows evidence of erosion was backfilled and the slope was graded and seeded.

The backfill was similar in composition to the material used on the existing cap, which has been classified as clay according to the Unified Soil Classification System (USCS). Soil was compacted between lifts and the process was repeated until the gullies and drainage swale had been restored to the surrounding or final grade. Rip-rap was placed around the bottom of the drainage swale to prevent localized erosion and pooling of surface water.

As part of the interim measures, a 2-foot thick clay cover cap was placed over the exposed PCBs detected during the RFI at location 40SS1 (Figure 3) to eliminate potential future exposure. Location 40SS1 was located in the field by a licensed surveyor and based off of the location provided within the approved IMWP (August 2011). The location was staked so that the stake was protruding two (2) feet above ground surface and the subsequent stake was completely covered and left in place to assure the minimum cover at this point of a 2-foot clay layer. The cover material consists of clay (CL) and will serve to be a protective cover with low permeability. The clay cover was compacted in accordance with the approved IMWP. Six inches of top soil was placed over the emplaced clay to ensure appropriate substrate for re-establishment of vegetation.

In accordance with the approved IMWP, a sign will be posted at SWMU 40 to identify it as a closed unit. Labeling on the sign will be consistent with signs at other closed units at RFAAP. The Army is currently coordinating with USEPA regarding the final language for signage at closed units throughout RFAAP. Once the RCRA Corrective Action permit Land Use Control requirements are finalized, establishing the appropriate language for signage, UXB-KEMRON will order and install the required sign at SWMU 40.

UXB-KEMRON conducted additional maintenance repairs in the area near SWMU 40 to provide enhanced stability of the slope and address the potential for erosion in the surrounding area. Using the same methods as those described for SWMU 40, an additional drainage swale was established, with geotextile liner and rip-rap emplaced over compacted clay. The additional maintenance provides enhanced runoff control and improves the ability of personnel to conduct mowing in the area. Figure 5 illustrates the area in which the additional maintenance was performed. This additional work is not located within the delineated SWMU.

2.3 Geospatial Data

Geospatial data was collected as part of the IM implementation to document: 1) the limits of placement of cover soil on the northern toe of the slope to prevent potential PCB exposure at and surrounding RFI sample location 40SS1, 2) the location of newly installed monitoring well 40MW7 as well as the existing three monitoring wells in the LTM network for SWMU 40, and, 3) the extent of the additional maintenance work completed adjacent to SWMU 40. Geospatial data was collected by a licensed surveyor (Anderson and Associates) in accordance with the August 2011 approved IMWP. Survey data is included in Appendix B, and the delineation of horizontal extent of the repair area at SWMU 40 and the additional repair are illustrated on Figure 3 and Figure 5. The surveyed points also are illustrated on these same figures.

3.0 MONITORING WELL INSTALLATION

3.1 Monitoring Well Installation

The new groundwater monitoring well 40MW7 was installed on the downgradient side of SWMU 40 at the location specified in the Final RFI/CMS. The location of the well is approximately 135 feet west-northwest of the landfill area (as illustrated in Figure 3).

Monitoring well 40MW7 was designed and installed similar to existing wells at SWMU 40. 40MW7 was installed following the procedures outlined in SOP 20.1 of the approved work plan and as described in Section 5.2 of the RFAAP Master Work Plan (MWP; URS, 2003) for installation of multi-cased wells. A truck mounted, air rotary drill rig was used to install 40MW7. The rig was owned and operated by Bedford Well Drilling, a Virginia licensed well driller (license number 2701-02-5236). All well installation work was overseen and documented in field notes by UXB-KEMRON. Field notes are included in Appendix F.

A 10-inch diameter roller bit was used to advance the boring through the overburden to the top of bedrock. A 10-inch diameter air hammer bit was used to drill in bedrock to the target depth for installation of outer steel casing into competent bedrock. The steel casing was set to a depth of twenty (20) feet and installed in accordance with SOP 20.1. After the borehole was advanced to the target depth for the outer steel casing, a 6-inch inside diameter steel casing was lowered to the bottom of the boring and tremie grouted in-place until undiluted grout reached the surface in the annulus between the outer casing and borehole wall. The grout was allowed to cure a minimum of 24 hours before further drilling inside the casing. The boring was then advanced inside the casing with a 6-inch air-hammer bit to the termination depth of the well boring of one-hundred and ninety (190) feet. Based on geophysical investigation performed at the site as part of the RFI/CMS, a "possible karst feature or fracture zone" was anticipated to be located at an approximate elevation of 1850 ft mean sea level and lower. This elevation was the target for the screened interval of the monitoring well.

A small, approximate six (6) inch water bearing zone was encountered at148 feet below ground surface. This zone appeared to be the target depth of the well based on review of the geophysical information in the approved RFI/CMS, the depths of 40MW5 and 40MW6, and the potentiometric surface map. The well was drilled past the 148 foot depth below ground surface water bearing zone to achieve a final depth of 190 feet below ground surface which was approximately equivalent to the total depths in 40MW6 and 40MW5. The additional drilling was to ensure that no other water bearing zone existed below the encountered zone at 148 feet. As drilling proceeded from the 148 foot depth interval, competent rock continued to be observed and logged for an additional 42 feet with no fracture zones present to the 190 foot total depth. Through discussion and concurrence with the Army, USEPA and VDEQ, the 148 foot below ground surface water bearing zone was decided to be the "possible karst feature or fracture zone" as indicated within the RFI/CMS. The bore hole was filled with bentonite to approximately 167 feet below ground surface and then construction of the monitoring well began. UXB-KEMRON set the well screen with the 148 foot depth interval in the upper portion of the screen to try to maximize the ability for the well to provide sufficient groundwater quantity for the full suite of parameters included in the LTM sampling and analysis.

The screened interval target zone identified during field investigation was set around 1771 ft mean sea level. Monitoring well 40MW7 was installed and completed in accordance with the approved work plan and SOP 20.1 and 20.2 of the work plan. 40MW7 was constructed with 2-inch diameter, Schedule 40 polyvinyl chloride (PVC) 0.01-inch factory slotted screen and riser pipe with threaded joints. Twenty foot long screen was used, to be consistent with previous monitoring well construction at the site. The screen was positioned to intercept the depth and fracture zone where the first significant water was

encountered during drilling. The well pad, protective casing, and ballard installation was completed in accordance with the approved work plan and SOP 20.1.

A boring log was completed as described in SOP 10.3 of the work plan and drilling activities were documented in the field notebook as described in SOP 10.1 of the work plan. Downhole drill rig tools and equipment were decontaminated before and after use following SOP 80.1 of the approved work plan. Field documentation regarding well installation and the boring log/monitoring well construction diagram are included in Appendix F.

Prior to groundwater sampling, 40MW7 was developed consistent with SOP 20.2 from the approved work plan. Three equivalent well volumes were removed from the monitoring well during development. Final development was completed after well completion and stabilization in accordance with the approved work plan. After completion of the monitoring well on November 18, 2011, the area surrounding the well was seeded and straw was set in place for reclamation of the area in accordance with the approved work plan. A concrete pad and bollards were installed to protect the monitoring well. Water level data was collected from 40MW7 and the surrounding groundwater monitoring wells that are completed in the same hydrogeologic unit (Figure 6) during the initiation of the LTM on November 20, 2011. A Potentiometric Surface Map was completed based on the water level data from the wells in the SWMU 40 LTM network and one additional well that is not in the network, but is completed in the same unit (Figure 7).

3.2 Geospatial Data

Both new and existing monitoring wells were surveyed using the U.S. State [Virginia (South Zone)] Plane Coordinate System (measured in U.S. survey ft) using the North American Datum 1983 to ensure accuracy of future water level measurements. Vertical elevations of top of casing was surveyed to the nearest 0.01 ft using the National Vertical Datum of 1988. This was completed in accordance with the approved work plan. Geospatial data are included in Appendix B.

3.3 Investigation Derived Material (IDM)

Waste characterization samples were collected and analyzed to determine the appropriate disposal methods of waste streams resulting from completion of the IM at SWMU 40. Two types of waste streams were generated during the IM: solid (soil/rock) and liquid (decontamination water and ground water).

Soil and rock generated during monitoring well installation activities were characterized to evaluate whether it was a RCRA characteristic hazardous waste as described in Part 40 of the Code of Federal Regulations (CFR) Part 261, Subpart C.

Waste characterization samples were collected after the material was drummed for on-site temporary storage. The drums were sampled to assess the appropriate disposal options for the solids and water. The solids sample(s) were submitted to the analytical laboratory and analyzed for TCLP Metals, TCLP VOCs, TCLP SVOCs, Total Explosives, PCBs, and pH. Based on the resulting analytical a Non-Hazardous Waste Characterization Profile was submitted to First Piedmont Landfill and approved for disposal January 12, 2012. Liquid waste characterization samples from decontamination procedures and purge waters from groundwater monitoring wells were submitted to the analytical laboratory and analyzed for BOD, COD, Total RCRA Metals, Total Zn, Total Cu, Total Ni, and pH analysis based upon the RFAAP WWTP requirements, and/or off-site disposal facility characterization requirements. The government approved disposal of the liquid IDM into the RFAAP WWTP on January 12, 2012 based on the analytical results included in Appendix C.

The IDM was created on November 21, 2011 and disposed of February 8, 2012. The IDM was stored at the onsite (RFAAP) IDM storage area prior to final disposal. The purge/decontamination water from the

well installation and ground water sampling was approved to be disposed of at the RFAAP Bioplant. The drums of soil/rock cuttings were documented, transported offsite and disposed at First Piedmont Landfill as Non-Hazardous waste. Documentation of final disposition of all IDM is included in Appendix D.

4.0 LONG TERM MONITORING

4.1 Groundwater Monitoring Program

The selected remedy for SWMU 40 included installation of one additional groundwater monitoring well in the downgradient direction and at a location selected in the RFI/CMS. The new well is identified as 40MW7 (see Figures 6 and 7). Groundwater monitoring was initiated November 20, 2011 following installation and development of the new monitoring well. Groundwater monitoring data will be collected and evaluated in conformance with the approved IMWP (August 2011). Groundwater and other SWMU 40 LTM data and information will be included in LTM reports to be prepared in the future annually and in conformance to the schedule specified in the approved IMWP.

5.0 CONCLUSIONS

UXB-KEMRON completed implementation of the approved IMWP from October 17 through November 17, 2011. The IM implementation was consistent with the final, approved RFI/CMS (URS, April 2009) and the approved IMWP (UXB-KEMRON, 2011). The landfill repairs have been completed and the Corrective Measures Objectives have been achieved. LTM has been initiated and will continue in accordance with the approved work plan, with reporting conducted on the schedule specified in the IMWP.

Signage designating SWMU 40 as a closed unit will be installed at SWMU 40 following final establishment of the language to be implemented for this purpose at all RFAAP closed sites. The language will be established in the final RCRA Corrective Action permit currently being prepared. Installation of the sign will be verified and documented via a future LTM report.

6.0 REFERENCES

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FIGURES

0 500 1000 2000 3000 4000
Feet

N

Source: Google Earth; Imagery Date: February 1, 2007

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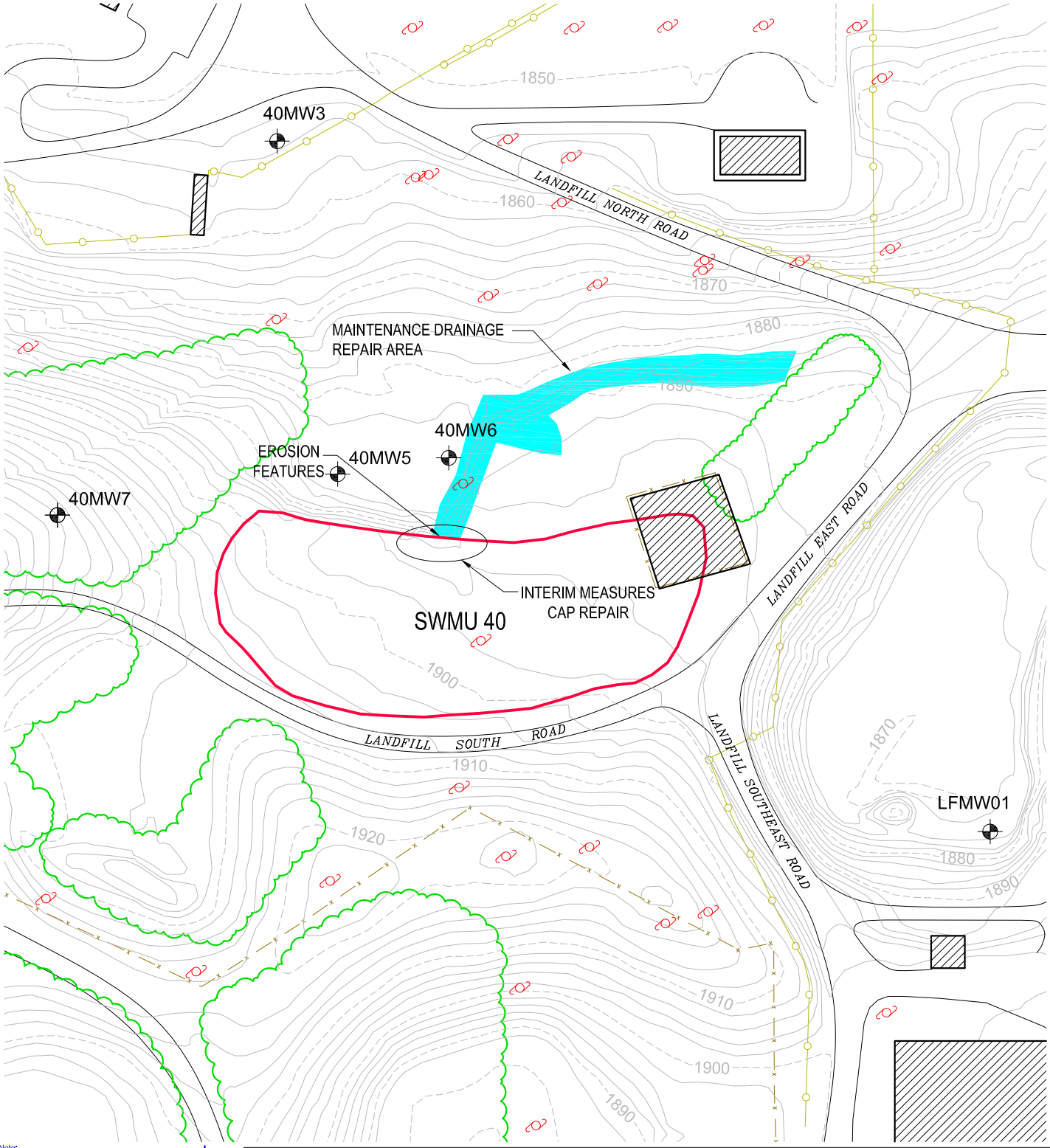
Blacksburg, VA 24060

PROJECT NO.	MR0669	DRAWING DATE:	01/12/2012
DESIGNED	DRP	SITE LOCATION MAP	
DETAILED	DRP	SWMU 40 IMCR	
CHECKED	JA	LOCATION: RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA	FIGURE: 1



Note:
Base map developed from fig. 2-2
Provided by URS Group, Inc., 1-2008

LEGEND

- TEMPORARY ASBESTOS STORAGE AREA
- VEGETATION
- APPROXIMATE SWMU BOUNDARY
- ABOVEGROUND PIPING
- 40MW6 MONITORING WELL LOCATION
- OVERHEAD ELECTRIC POLE
- TOPOGRAPHIC CONTOUR
- FENCE LINE

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Tel 540.443.3700
Fax 540.443.3790
Contract No. W912DY-10-D-0027
Delivery Order Number: DA01

0 60 120
SCALE 1"=120'
(Approximate)

DRAWN BY: KG		DATE 19 JANUARY 2012
REVIEWED: JA	R 5	PROJECT NO. MR0669-200-002
APPROVED:		DWG. FILE NO. SWMU 40. SITE MAP

FIGURE 2

IMCR SWMU 40
SITE LAYOUT
RADFORD ARMY AMMUNITION PLANT-009
RADFORD, VIRGINIA

FILE PATH: (LOVETON) M:\MARIETTA\O MR 0669-200-002\MR0669. FIG. 2. SWMU 40. SITE LAYOUT-2.DWG [FIG. 2] 1/24/12
PLOTTED: January 24, 2012 - 4:49 PM, BY: Jarvis Miller

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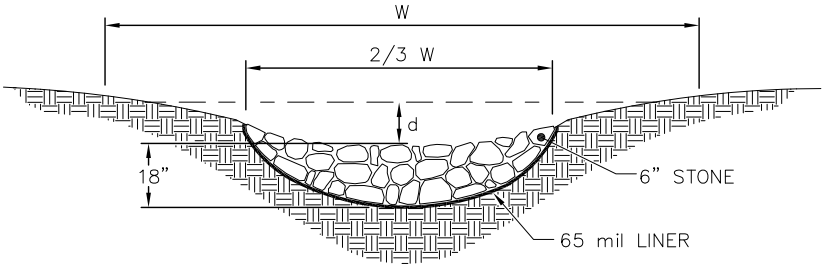
Blacksburg, VA 24060

PROJECT NO.	MR0669	DRAWING DATE:	03/22/2012
DESIGNED	DRP	INTERIM MEASURES REPAIR	
DETAILED	DRP		
CHECKED	JA	LOCATION: RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA	FIGURE: 3

PLOTTED: January 24, 2012 - 4:56 PM, BY: Jarvis Miller

DRAINAGE SWALE CONSTRUCTION



PARABOLIC-SHAPED WATERWAY WITH STONE CENTER DRAIN

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Tel 540.443.3700
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	DRAWN BY: KG	DATE 19 JANUARY 2012	FIGURE 4	IMCR SWMU 40 SWALE DESIGN RADFORD ARMY AMMUNITION PLANT-009 RADFORD, VIRGINIA
	REVIEWED: JA R 5	PROJECT NO. MR0669-200-002		
	APPROVED:	DWG. FILE NO. SURF. WTR.DRANG.		

FILE PATH: (LOVETON) M:\MARIETTA\O MR 0669-200-002\MR0669 FIG. 4 DRAINAGE.DWG [FIG-4] 1/24/12

UXB-KEMRON Remediation Services, LLC
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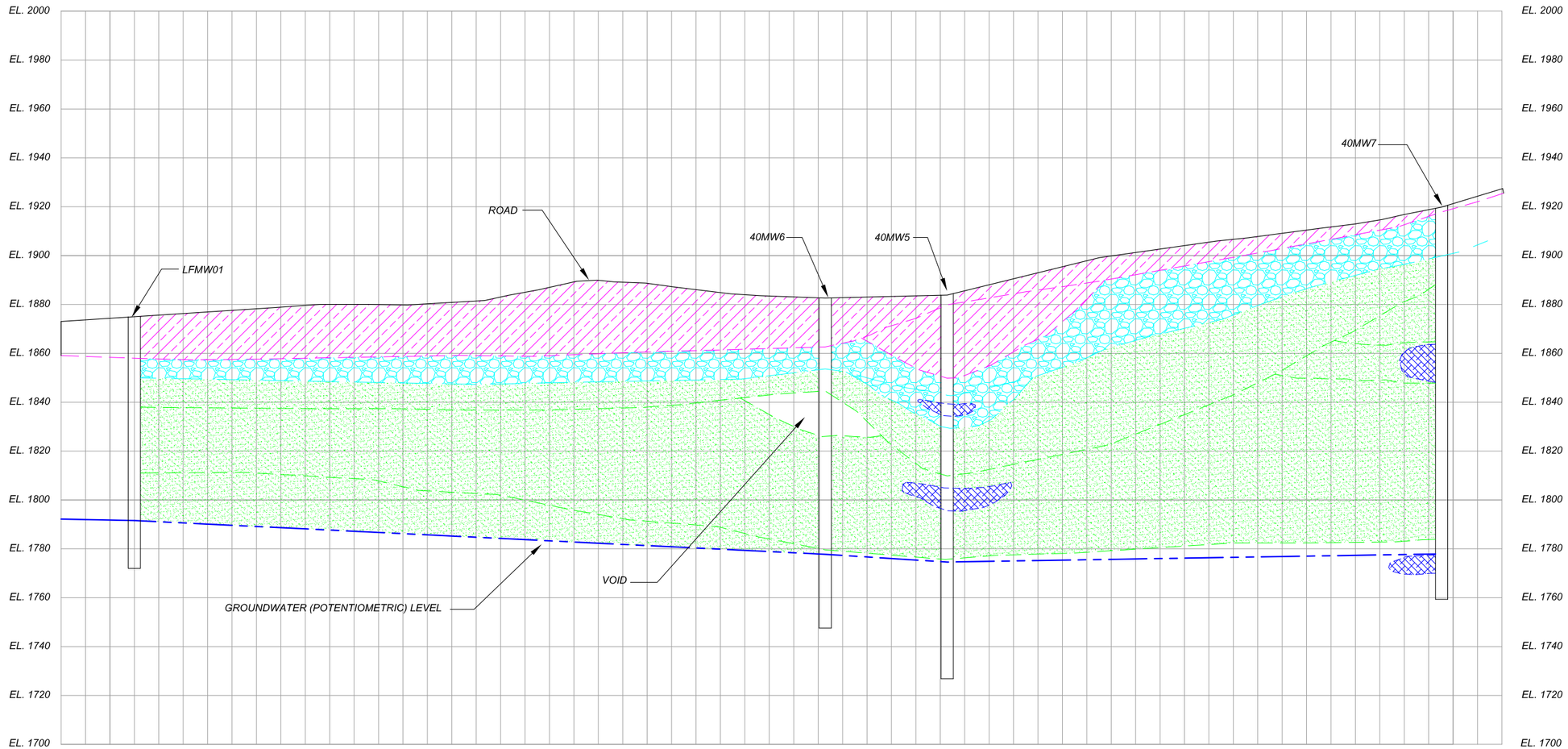
Blacksburg, VA 24060

PROJECT NO.	MR0669	DRAWING DATE:	03/22/2012
DESIGNED	DRP	AREA OF ADDITIONAL MAINTENANCE REPAIR	
DETAILED	DRP		
CHECKED	JA	LOCATION: RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA	FIGURE: 5

PLOTTED: January 26, 2012 – 9:08 AM, BY: Jarvis Miller



LEGEND

- CLAY AND TOPSOIL
- SHALE
- LIMESTONE AND DOLOMITE
- CLAY WITH ROCK FRAGMENTS

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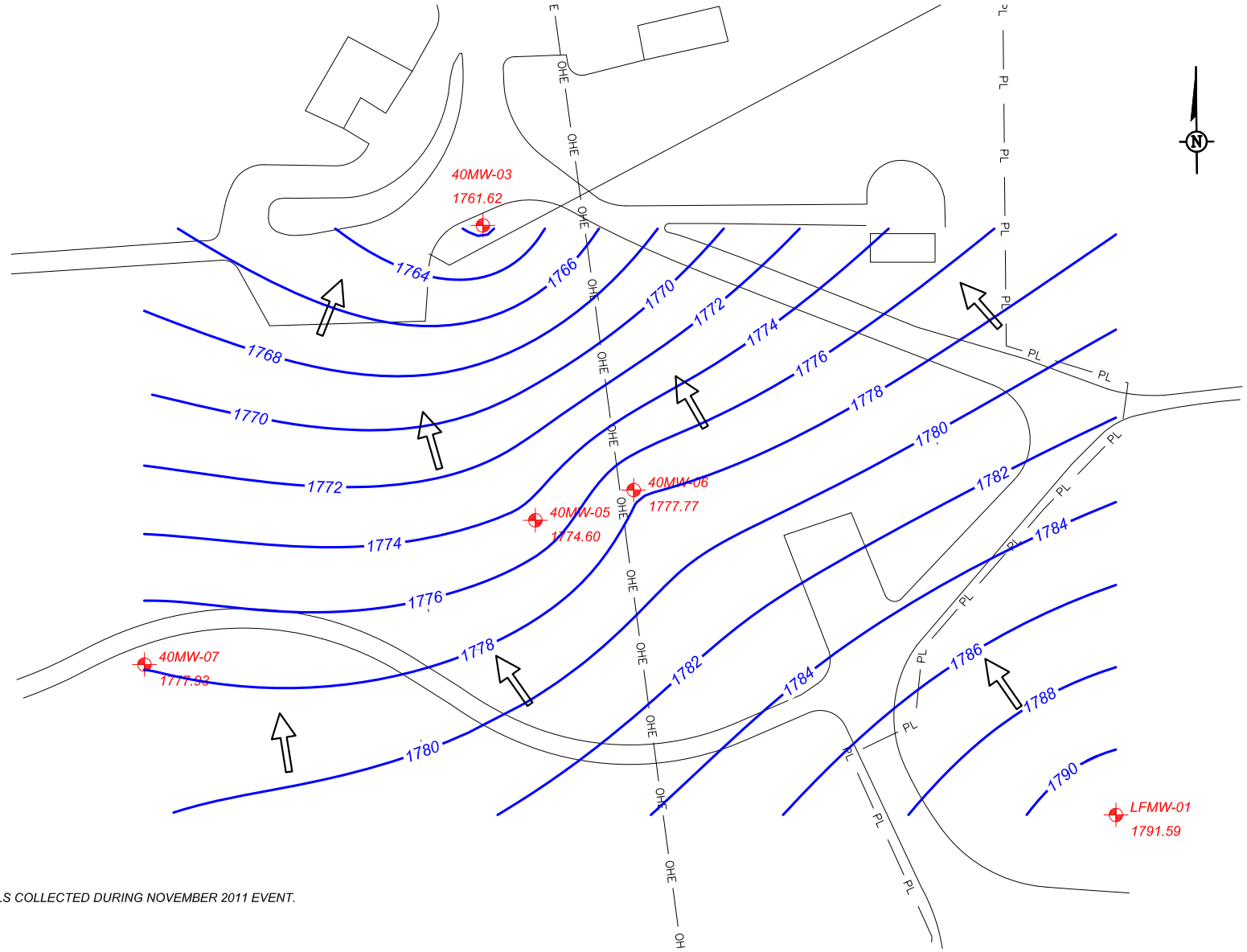
0 50 100 SCALE 1"=100'	DRAWN BY: JM	DATE 19 JANUARY 2012	FIGURE-6	SWMU 40 IMCR CROSS SECTION RADFORD ARMY AMMUNITION PLANT SWMU 40, RAAP-009 RADFORD, VIRGINIA
	REVIEWED: JA / R 2	PROJECT NO. MR0669-200-002		
	APPROVED: JA	DWG. FILE NO. DWG-NAME		

FILE PATH: (LOCATION) M:\MARIETTA\0_MR 0669-551-001\DWG\RAD-2.DWG [X-SECTION] 12/8/11



NOTE:

1. WATER LEVELS COLLECTED DURING NOVEMBER 2011 EVENT.

LEGEND

- GROUNDWATER ELEVATION CONTOUR
- DIRECTION OF GROUNDWATER FLOW
- MONITORING WELL
- OHE — OVERHEAD POWER LINE
- PL — ABOVE GROUND PIPING

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Blacksburg, VA 24060
Tel 540.443.3700
Fax 540.443.3790

0 75 150

SCALE 1"=150'

DRAWN BY: JM		DATE 19 JANUARY 2012	FIGURE-7
REVIEWED: JA	R 2	PROJECT NO. MR0669-200-002	
APPROVED: JA		DWG. FILE NO. DWG-NAME	

SWMU 40 IMCR
POTENTIOMETRIC MAP

RADFORD ARMY AMMUNITION PLANT
SWMU 40, RAAP-009
RADFORD, VIRGINIA

M:\MARIETTA\D_MR_0669-551-001\DWG_rad-2.dwg 01/26/2012 jmiller CH

APPENDIX A

Backfill and Topsoil Laboratory Analytical Reports (on CD-ROM)

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L11020447

Client: Mary Lou Rochette, 156 Starlite Drive, Marietta, OH, 45750

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

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This report was reviewed on March 01, 2011.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on March 01, 2011.

David Vandenberg - Managing Director

State of origin: Virginia
Accrediting authority: N/A ID:N/A
QAPP: DOD Ver 4.1
This report contains a total of 1896 pages.

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Microbac REPORT L11020447
PREPARED FOR Kemron Environmental Services
WORK ID:

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1.0 Introduction

LABORATORY REPORT

L11020447

03/01/11 15:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
SITE #1-TPS-2-16-11-COMP	L11020447-01	02/16/2011 11:20	02/17/2011
SITE #1-2-16-11-DUP	L11020447-02	02/16/2011 11:20	02/17/2011
SITE #1-2-16-11-MS	L11020447-03	02/16/2011 11:20	02/17/2011
SITE #1-2-16-11-MSD	L11020447-04	02/16/2011 11:20	02/17/2011
SITE #1-2-16-11-FB	L11020447-05	02/16/2011 12:20	02/17/2011
SITE #1-2-16-11-CLAY-C	L11020447-06	02/16/2011 12:40	02/17/2011
SITE #1-2-16-11-CLAY-C-2	L11020447-07	02/16/2011 12:45	02/17/2011

L1_A_PROD_COVER - Modified 02/06/2008
PDF File ID: 1927724
Report generated: 03/01/2011 15:27

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG356943**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7471A**
Analytical Method: **7471A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **02/18/2011 06:16**
Cal Date: **02/18/2011 08:50**
Run Date: **02/18/2011 09:14**
File ID: **HY.021811.091441**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.0266	J	0.293	0.0117

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **20**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 12:17**
File ID: **T2.021811.121711**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	7440-70-2	828		174	86.9
Manganese, Total	7439-96-5	670		8.69	4.34

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:23**
File ID: **T2.021811.112321**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	5150		17.4	8.69
Antimony, Total	7440-36-0		U	0.869	0.434
Barium, Total	7440-39-3	56.6		0.434	0.217
Beryllium, Total	7440-41-7	0.480		0.434	0.217
Cadmium, Total	7440-43-9		U	0.434	0.217
Chromium, Total	7440-47-3	9.93		0.869	0.434
Cobalt, Total	7440-48-4	9.21		0.869	0.434
Copper, Total	7440-50-8	10.6		0.869	0.434
Iron, Total	7439-89-6	16400		2.61	1.30
Magnesium, Total	7439-95-4	590		21.7	10.9
Nickel, Total	7440-02-0	6.28		1.74	0.869
Potassium, Total	7440-09-7	344		43.4	21.7
Silver, Total	7440-22-4		U	1.74	0.869
Sodium, Total	7440-23-5		U	21.7	10.9
Vanadium, Total	7440-62-2	23.7		0.434	0.217
Zinc, Total	7440-66-6	18.0		0.869	0.434

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG356983**
Collect Date: **02/16/2011 11:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **5**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **02/18/2011 05:52**
Cal Date: **02/18/2011 11:54**
Run Date: **02/18/2011 16:34**
File ID: **EL.021811.163456**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	3.15		1.78	0.891
Lead, Total	7439-92-1	13.9		1.19	0.594
Selenium, Total	7782-49-2	0.648	J	1.19	0.594
Thallium, Total	7440-28-0	0.124	J	0.238	0.119

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 16:47**
File ID: **15G25181.F**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	1.91	0.382
4,4'-DDE	72-55-9		U	1.91	0.382
4,4'-DDT	50-29-3		U	1.91	0.382
Aldrin	309-00-2		U	1.91	0.382
alpha Chlordane	5103-71-9		U	1.91	0.382
alpha-BHC	319-84-6		U	1.91	0.382
beta-BHC	319-85-7		U	1.91	0.382
delta-BHC	319-86-8		U	1.91	0.382
Endosulfan I	959-98-8		U	1.91	0.382
Endosulfan II	33213-65-9		U	1.91	0.382
Endosulfan sulfate	1031-07-8		U	1.91	0.382
Endrin	72-20-8		U	1.91	0.382
Endrin aldehyde	7421-93-4		U	1.91	0.382
Endrin ketone	53494-70-5		U	1.91	0.382
gamma Chlordane	5103-74-2		U	1.91	0.382
gamma-BHC (Lindane)	58-89-9		U	1.91	0.382
Heptachlor	76-44-8		U	1.91	0.382
Heptachlor epoxide	1024-57-3		U	1.91	0.382
Methoxychlor	72-43-5		U	1.91	0.382
Toxaphene	8001-35-2		U	38.2	19.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	61.4	70	125	*
Decachlorobiphenyl	56.2	55	130	

***** Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG357027**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP9**
Prep Date: **02/18/2011 09:37**
Cal Date: **02/18/2011 18:51**
Run Date: **02/22/2011 00:04**
File ID: **9GR60499.R**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	19.1	9.56
Aroclor-1221	11104-28-2		U	19.1	9.56
Aroclor-1232	11141-16-5		U	19.1	9.56
Aroclor-1242	53469-21-9		U	19.1	9.56
Aroclor-1248	12672-29-6		U	19.1	9.56

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG357027**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP9**
Prep Date: **02/18/2011 09:37**
Cal Date: **02/18/2011 18:51**
Run Date: **02/22/2011 00:04**
File ID: **9GR60499.R**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1254	11097-69-1		U	19.1	9.56
Aroclor-1260	11096-82-5		U	19.1	9.56

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	77.2	29	133	
Decachlorobiphenyl	74.2	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 12:30**
File ID: **7M50507**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	2.89	1.45
Acenaphthylene	208-96-8		U	2.89	1.45
Acenaphthene	83-32-9		U	2.89	1.45
Fluorene	86-73-7		U	2.89	1.45
Phenanthrene	85-01-8	1.96	J	2.89	1.45
Anthracene	120-12-7		U	2.89	1.45
Fluoranthene	206-44-0	4.24		2.89	1.45
Pyrene	129-00-0	3.59		2.89	1.45
Benzo(a)anthracene	56-55-3	1.72	J	2.89	1.45
Chrysene	218-01-9	2.30	J	2.89	1.45
Benzo(b)fluoranthene	205-99-2	2.32	J	2.89	1.45
Benzo(k)fluoranthene	207-08-9	2.00	J	2.89	1.45
Benzo(a)pyrene	50-32-8		U	2.89	1.45
Indeno(1,2,3-cd)pyrene	193-39-5	1.46	J	2.89	1.45
Dibenzo(a,h)anthracene	53-70-3		U	2.89	1.45
Benzo(g,h,i)perylene	191-24-2	1.86	J	2.89	1.45
1-Methylnaphthalene	90-12-0		U	2.89	1.45
2-Methylnaphthalene	91-57-6		U	2.89	1.45

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	76.8	35	100	
2-Fluorobiphenyl	66.2	45	105	
p-Terphenyl-d14	93.0	30	125	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 11:20**

PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113470401**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	6.52			

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG357101**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **02/22/2011 09:07**
Cal Date:
Run Date: **02/22/2011 09:07**
File ID: **B1.357101-0131**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	84.0		1.00	1.00

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG356943**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7471A**
Analytical Method: **7471A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **02/18/2011 06:17**
Cal Date: **02/18/2011 08:47**
Run Date: **02/18/2011 09:22**
File ID: **HY.021811.092205**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.0259	J	0.290	0.0116

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **20**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 12:20**
File ID: **T2.021811.122045**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	7440-70-2	922		175	87.3
Manganese, Total	7439-96-5	614		8.73	4.37

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:26**
File ID: **T2.021811.112659**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	4020		17.5	8.73
Antimony, Total	7440-36-0		U	0.873	0.437
Barium, Total	7440-39-3	48.2		0.437	0.218
Beryllium, Total	7440-41-7	0.398	J	0.437	0.218
Cadmium, Total	7440-43-9		U	0.437	0.218
Chromium, Total	7440-47-3	7.60		0.873	0.437
Cobalt, Total	7440-48-4	5.98		0.873	0.437
Copper, Total	7440-50-8	7.52		0.873	0.437
Iron, Total	7439-89-6	12100		2.62	1.31
Magnesium, Total	7439-95-4	481		21.8	10.9
Nickel, Total	7440-02-0	4.55		1.75	0.873
Potassium, Total	7440-09-7	233		43.7	21.8
Silver, Total	7440-22-4		U	1.75	0.873
Sodium, Total	7440-23-5		U	21.8	10.9
Vanadium, Total	7440-62-2	18.3		0.437	0.218
Zinc, Total	7440-66-6	12.6		0.873	0.437

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG356983**
Collect Date: **02/16/2011 11:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **5**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **02/18/2011 05:52**
Cal Date: **02/18/2011 11:54**
Run Date: **02/18/2011 16:41**
File ID: **EL.021811.164143**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	3.92		1.74	0.868
Lead, Total	7439-92-1	13.0		1.16	0.579
Selenium, Total	7782-49-2	0.711	J	1.16	0.579
Thallium, Total	7440-28-0	0.124	J	0.231	0.116

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 18:12**
File ID: **15G25184.F**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	1.91	0.381
4,4'-DDE	72-55-9		U	1.91	0.381
4,4'-DDT	50-29-3		U	1.91	0.381
Aldrin	309-00-2		U	1.91	0.381
alpha Chlordane	5103-71-9		U	1.91	0.381
alpha-BHC	319-84-6		U	1.91	0.381
beta-BHC	319-85-7		U	1.91	0.381
delta-BHC	319-86-8		U	1.91	0.381
Dieldrin	60-57-1		U	1.91	0.381
Endosulfan I	959-98-8		U	1.91	0.381
Endosulfan II	33213-65-9		U	1.91	0.381
Endosulfan sulfate	1031-07-8		U	1.91	0.381
Endrin	72-20-8		U	1.91	0.381

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 18:12**
File ID: **15G25184.F**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Endrin aldehyde	7421-93-4		U	1.91	0.381
Endrin ketone	53494-70-5		U	1.91	0.381
gamma Chlordane	5103-74-2		U	1.91	0.381
gamma-BHC (Lindane)	58-89-9		U	1.91	0.381
Heptachlor	76-44-8		U	1.91	0.381
Heptachlor epoxide	1024-57-3		U	1.91	0.381
Methoxychlor	72-43-5		U	1.91	0.381
Toxaphene	8001-35-2		U	38.1	19.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	56.9	70	125	*
Decachlorobiphenyl	49.6	55	130	*

***** Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG357027**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP9**
Prep Date: **02/18/2011 09:37**
Cal Date: **02/18/2011 18:51**
Run Date: **02/21/2011 22:52**
File ID: **9GR60495.R**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	19.1	9.53
Aroclor-1221	11104-28-2		U	19.1	9.53
Aroclor-1232	11141-16-5		U	19.1	9.53
Aroclor-1242	53469-21-9		U	19.1	9.53
Aroclor-1248	12672-29-6		U	19.1	9.53
Aroclor-1254	11097-69-1		U	19.1	9.53
Aroclor-1260	11096-82-5		U	19.1	9.53

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	76.3	29	133	
Decachlorobiphenyl	68.8	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 13:53**
File ID: **7M50510**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	2.89	1.45
Acenaphthylene	208-96-8		U	2.89	1.45
Acenaphthene	83-32-9		U	2.89	1.45
Fluorene	86-73-7		U	2.89	1.45
Phenanthrene	85-01-8	1.90	J	2.89	1.45
Anthracene	120-12-7		U	2.89	1.45
Fluoranthene	206-44-0	5.00		2.89	1.45
Pyrene	129-00-0	4.34		2.89	1.45
Benzo(a)anthracene	56-55-3	2.21	J	2.89	1.45
Chrysene	218-01-9	2.69	J	2.89	1.45
Benzo(b)fluoranthene	205-99-2	3.26		2.89	1.45

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 13:53**
File ID: **7M50510**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Benzo(k)fluoranthene	207-08-9	2.24	J	2.89	1.45
Benzo(a)pyrene	50-32-8	2.46	J	2.89	1.45
Indeno(1,2,3-cd)pyrene	193-39-5	1.76	J	2.89	1.45
Dibenzo(a,h)anthracene	53-70-3		U	2.89	1.45
Benzo(g,h,i)perylene	191-24-2	2.18	J	2.89	1.45
1-Methylnaphthalene	90-12-0		U	2.89	1.45
2-Methylnaphthalene	91-57-6		U	2.89	1.45

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	66.7	35	100	
2-Fluorobiphenyl	60.4	45	105	
p-Terphenyl-d14	87.1	30	125	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 11:20**

PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113471301**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	6.59			

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG357101**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **02/22/2011 09:07**
Cal Date:
Run Date: **02/22/2011 09:07**
File ID: **B1.357101-0132**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	85.5		1.00	1.00

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG356943**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7471A**
Analytical Method: **7471A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **02/18/2011 06:14**
Cal Date: **02/18/2011 08:52**
Run Date: **02/18/2011 09:24**
File ID: **HY.021811.092400**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.311		0.293	0.0117

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **20**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 12:24**
File ID: **T2.021811.122420**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	7440-70-2	1030		174	86.9
Manganese, Total	7439-96-5	713		8.69	4.34

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:30**
File ID: **T2.021811.113036**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	5250		17.4	8.69
Antimony, Total	7440-36-0	21.4		0.869	0.434
Barium, Total	7440-39-3	70.5		0.434	0.217
Beryllium, Total	7440-41-7	1.33		0.434	0.217
Cadmium, Total	7440-43-9	0.984		0.434	0.217
Chromium, Total	7440-47-3	18.3		0.869	0.434
Cobalt, Total	7440-48-4	11.8		0.869	0.434
Copper, Total	7440-50-8	19.3		0.869	0.434
Iron, Total	7439-89-6	15100		2.61	1.30
Magnesium, Total	7439-95-4	738		21.7	10.9
Nickel, Total	7440-02-0	15.5		1.74	0.869
Potassium, Total	7440-09-7	1230		43.4	21.7
Silver, Total	7440-22-4	7.19		1.74	0.869
Sodium, Total	7440-23-5	969		21.7	10.9
Vanadium, Total	7440-62-2	41.3		0.434	0.217
Zinc, Total	7440-66-6	35.0		0.869	0.434

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG356983**
Collect Date: **02/16/2011 11:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **5**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **02/18/2011 05:51**
Cal Date: **02/18/2011 11:54**
Run Date: **02/18/2011 16:48**
File ID: **EL.021811.164831**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	14.6		1.78	0.891
Lead, Total	7439-92-1	25.6		1.19	0.594
Selenium, Total	7782-49-2	12.3		1.19	0.594
Thallium, Total	7440-28-0	11.8		0.238	0.119

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 17:16**
File ID: **15G25182.F**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8	16.1		1.96	0.392
4,4'-DDE	72-55-9	16.5		1.96	0.392
4,4'-DDT	50-29-3	16.7		1.96	0.392
Aldrin	309-00-2	15.2		1.96	0.392
alpha Chlordane	5103-71-9	15.4		1.96	0.392
alpha-BHC	319-84-6	16.6		1.96	0.392
beta-BHC	319-85-7	16.0		1.96	0.392
delta-BHC	319-86-8	16.7		1.96	0.392
Dieldrin	60-57-1	16.4		1.96	0.392
Endosulfan I	959-98-8	13.1		1.96	0.392
Endosulfan II	33213-65-9	13.7		1.96	0.392
Endosulfan sulfate	1031-07-8	17.8		1.96	0.392
Endrin	72-20-8	17.3		1.96	0.392
Endrin aldehyde	7421-93-4	13.4		1.96	0.392
Endrin ketone	53494-70-5	16.5		1.96	0.392
gamma Chlordane	5103-74-2	15.7		1.96	0.392
gamma-BHC (Lindane)	58-89-9	16.7		1.96	0.392
Heptachlor	76-44-8	14.5		1.96	0.392
Heptachlor epoxide	1024-57-3	13.3		1.96	0.392
Methoxychlor	72-43-5	16.6		1.96	0.392
Toxaphene	8001-35-2		U	39.2	19.8

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	67.2	70	125	*
Decachlorobiphenyl	66.1	55	130	

* Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG357027**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP9**
Prep Date: **02/18/2011 09:37**
Cal Date: **02/18/2011 18:51**
Run Date: **02/22/2011 00:22**
File ID: **9GR60500.R**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2	76.0	Q	19.5	9.75
Aroclor-1221	11104-28-2		U	19.5	9.75
Aroclor-1232	11141-16-5		U	19.5	9.75
Aroclor-1242	53469-21-9		U	19.5	9.75
Aroclor-1248	12672-29-6		U	19.5	9.75
Aroclor-1254	11097-69-1		U	19.5	9.75
Aroclor-1260	11096-82-5	76.6	Q	19.5	9.75

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	60.2	29	133	
Decachlorobiphenyl	53.3	60	125	*

Q One or more quality control criteria failed. See narrative.
***** Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 12:58**
File ID: **7M50508**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3	35.5		2.92	1.46
Acenaphthylene	208-96-8	29.2		2.92	1.46
Acenaphthene	83-32-9	31.5		2.92	1.46
Fluorene	86-73-7	33.9		2.92	1.46
Phenanthrene	85-01-8	46.4		2.92	1.46
Anthracene	120-12-7	46.9		2.92	1.46
Fluoranthene	206-44-0	58.5		2.92	1.46
Pyrene	129-00-0	52.8		2.92	1.46
Benzo(a)anthracene	56-55-3	49.0		2.92	1.46
Chrysene	218-01-9	48.1		2.92	1.46
Benzo(b)fluoranthene	205-99-2	53.6		2.92	1.46
Benzo(k)fluoranthene	207-08-9	38.3		2.92	1.46
Benzo(a)pyrene	50-32-8	48.9		2.92	1.46
Indeno(1,2,3-cd)pyrene	193-39-5	46.2		2.92	1.46
Dibenzo(a,h)anthracene	53-70-3	46.1		2.92	1.46
Benzo(g,h,i)perylene	191-24-2	47.5		2.92	1.46
1-Methylnaphthalene	90-12-0	35.0		2.92	1.46
2-Methylnaphthalene	91-57-6	38.3		2.92	1.46

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	70.0	35	100	
2-Fluorobiphenyl	62.2	45	105	
p-Terphenyl-d14	95.7	30	125	

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 11:20**
PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**
Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113472501**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	6.53			

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG357101**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**
PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**
Instrument: **BAL001**
Prep Date: **02/22/2011 09:07**
Cal Date:
Run Date: **02/22/2011 09:07**
File ID: **B1.357101-0133**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	84.0		1.00	1.00

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG356943**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**
PrePrep Method: **NONE**
Prep Method: **7471A**
Analytical Method: **7471A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/kg**
Instrument: **HYDRA**
Prep Date: **02/18/2011 06:14**
Cal Date: **02/18/2011 08:52**
Run Date: **02/18/2011 09:25**
File ID: **HY.021811.092544**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.318		0.293	0.0117

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**
PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**
Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:34**
File ID: **T2.021811.113409**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	5170		17.4	8.69
Antimony, Total	7440-36-0	21.2		0.869	0.434
Barium, Total	7440-39-3	63.7		0.434	0.217
Beryllium, Total	7440-41-7	1.26		0.434	0.217
Cadmium, Total	7440-43-9	0.969		0.434	0.217
Chromium, Total	7440-47-3	16.9		0.869	0.434
Cobalt, Total	7440-48-4	9.61		0.869	0.434
Copper, Total	7440-50-8	16.8		0.869	0.434
Iron, Total	7439-89-6	12200		2.61	1.30

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:34**
File ID: **T2.021811.113409**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Magnesium, Total	7439-95-4	682		21.7	10.9
Nickel, Total	7440-02-0	13.9		1.74	0.869
Potassium, Total	7440-09-7	1180		43.4	21.7
Silver, Total	7440-22-4	7.22		1.74	0.869
Sodium, Total	7440-23-5	957		21.7	10.9
Vanadium, Total	7440-62-2	38.1		0.434	0.217
Zinc, Total	7440-66-6	32.4		0.869	0.434

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **20**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 12:27**
File ID: **T2.021811.122753**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	7440-70-2	1160		174	86.9
Manganese, Total	7439-96-5	567		8.69	4.34

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG356983**
Collect Date: **02/16/2011 11:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **5**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **02/18/2011 05:52**
Cal Date: **02/18/2011 11:54**
Run Date: **02/18/2011 16:55**
File ID: **EL.021811.165519**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	15.0		1.78	0.891
Lead, Total	7439-92-1	26.8		1.19	0.594
Selenium, Total	7782-49-2	11.5		1.19	0.594
Thallium, Total	7440-28-0	11.9		0.238	0.119

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 17:44**
File ID: **15G25183.F**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8	16.4		1.93	0.387
4,4'-DDE	72-55-9	16.9		1.93	0.387
4,4'-DDT	50-29-3	17.1		1.93	0.387
Aldrin	309-00-2	15.5		1.93	0.387
alpha Chlordane	5103-71-9	15.7		1.93	0.387
alpha-BHC	319-84-6	16.4		1.93	0.387
beta-BHC	319-85-7	16.0		1.93	0.387
delta-BHC	319-86-8	16.6		1.93	0.387

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 17:44**
File ID: **15G25183.F**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Dieldrin	60-57-1	17.1		1.93	0.387
Endosulfan I	959-98-8	13.1		1.93	0.387
Endosulfan II	33213-65-9	13.7		1.93	0.387
Endosulfan sulfate	1031-07-8	17.5		1.93	0.387
Endrin	72-20-8	17.2		1.93	0.387
Endrin aldehyde	7421-93-4	13.3		1.93	0.387
Endrin ketone	53494-70-5	16.3		1.93	0.387
gamma Chlordane	5103-74-2	15.7		1.93	0.387
gamma-BHC (Lindane)	58-89-9	16.5		1.93	0.387
Heptachlor	76-44-8	15.2		1.93	0.387
Heptachlor epoxide	1024-57-3	14.2		1.93	0.387
Methoxychlor	72-43-5	17.0		1.93	0.387
Toxaphene	8001-35-2		U	38.7	19.6

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	64.0	70	125	*
Decachlorobiphenyl	63.1	55	130	

***** Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG357027**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP9**
Prep Date: **02/18/2011 09:37**
Cal Date: **02/18/2011 18:51**
Run Date: **02/22/2011 00:40**
File ID: **9GR60501.R**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2	88.9		19.4	9.70
Aroclor-1221	11104-28-2		U	19.4	9.70
Aroclor-1232	11141-16-5		U	19.4	9.70
Aroclor-1242	53469-21-9		U	19.4	9.70
Aroclor-1248	12672-29-6		U	19.4	9.70
Aroclor-1254	11097-69-1		U	19.4	9.70
Aroclor-1260	11096-82-5	92.0		19.4	9.70

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	70.7	29	133	
Decachlorobiphenyl	62.5	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 13:25**
File ID: **7M50509**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3	33.6		2.92	1.46
Acenaphthylene	208-96-8	30.0		2.92	1.46
Acenaphthene	83-32-9	32.6		2.92	1.46
Fluorene	86-73-7	36.7		2.92	1.46
Phenanthrene	85-01-8	48.5		2.92	1.46
Anthracene	120-12-7	50.4		2.92	1.46

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 13:25**
File ID: **7M50509**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Fluoranthene	206-44-0	56.2		2.92	1.46
Pyrene	129-00-0	51.5		2.92	1.46
Benzo(a)anthracene	56-55-3	48.5		2.92	1.46
Chrysene	218-01-9	48.0		2.92	1.46
Benzo(b)fluoranthene	205-99-2	54.5		2.92	1.46
Benzo(k)fluoranthene	207-08-9	38.3		2.92	1.46
Benzo(a)pyrene	50-32-8	48.3		2.92	1.46
Indeno(1,2,3-cd)pyrene	193-39-5	46.7		2.92	1.46
Dibenzo(a,h)anthracene	53-70-3	47.1		2.92	1.46
Benzo(g,h,i)perylene	191-24-2	47.9		2.92	1.46
1-Methylnaphthalene	90-12-0	34.4		2.92	1.46
2-Methylnaphthalene	91-57-6	37.4		2.92	1.46

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	65.0	35	100	
2-Fluorobiphenyl	63.2	45	105	
p-Terphenyl-d14	98.5	30	125	

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 11:20**

PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113473201**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	6.42			

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG357101**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **02/22/2011 09:07**
Cal Date:
Run Date: **02/22/2011 09:07**
File ID: **B1.357101-0134**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	84.0		1.00	1.00

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG356988**
Collect Date: **02/16/2011 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **02/18/2011 11:14**
Cal Date:
Run Date: **02/18/2011 14:07**
File ID: **HY.021811.140758**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury	7439-97-6		U	0.000200	0.000100

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG356956**
Collect Date: **02/16/2011 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **02/18/2011 06:36**
Cal Date: **02/18/2011 14:54**
Run Date: **02/18/2011 16:44**
File ID: **P2.021811.164428**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5		U	0.100	0.0500
Arsenic, Total	7440-38-2		U	0.0100	0.00500
Barium, Total	7440-39-3		U	0.0100	0.00500
Beryllium, Total	7440-41-7		U	0.0100	0.00500
Cadmium, Total	7440-43-9		U	0.0100	0.00500
Chromium, Total	7440-47-3		U	0.0200	0.0100
Cobalt, Total	7440-48-4		U	0.0200	0.0100
Copper, Total	7440-50-8		U	0.0200	0.0100
Iron, Total	7439-89-6		U	0.100	0.0500
Lead, Total	7439-92-1		U	0.00500	0.00250
Magnesium, Total	7439-95-4		U	0.500	0.250
Manganese, Total	7439-96-5		U	0.0100	0.00500
Nickel, Total	7440-02-0		U	0.0400	0.0200
Potassium, Total	7440-09-7		U	1.00	0.500
Silver, Total	7440-22-4		U	0.0100	0.00500
Sodium, Total	7440-23-5		U	0.500	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6		U	0.0200	0.0100

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG356956**
Collect Date: **02/16/2011 12:20**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **02/18/2011 06:36**
Cal Date: **02/21/2011 12:22**
Run Date: **02/21/2011 18:56**
File ID: **P2.022111.185639**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	7440-70-2		U	0.200	0.100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG356974**
Collect Date: **02/16/2011 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **02/18/2011 07:09**
Cal Date: **02/22/2011 09:56**
Run Date: **02/22/2011 16:24**
File ID: **EL.022211.162455**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Selenium, Total	7782-49-2		U	0.00100	0.000500
Thallium, Total	7440-28-0		U	0.000200	0.000100

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG357013**
Collect Date: **02/16/2011 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3510C**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/L**

Instrument: **HP15**
Prep Date: **02/18/2011 09:00**
Cal Date: **02/18/2011 23:19**
Run Date: **02/19/2011 15:38**
File ID: **15G25086.F**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	0.0562	0.0112
4,4'-DDE	72-55-9		U	0.0562	0.0112
4,4'-DDT	50-29-3		U	0.0562	0.0112
Aldrin	309-00-2		U	0.0562	0.0112
alpha Chlordane	5103-71-9		U	0.0562	0.0112
alpha-BHC	319-84-6		U	0.0562	0.0112
beta-BHC	319-85-7		U	0.0562	0.0112
delta-BHC	319-86-8		U	0.0562	0.0112
Dieldrin	60-57-1		U	0.0562	0.0112
Endosulfan I	959-98-8		U	0.0562	0.0112
Endosulfan II	33213-65-9		U	0.0562	0.0112
Endosulfan sulfate	1031-07-8		U	0.0562	0.0112
Endrin	72-20-8		U	0.0562	0.0112
Endrin aldehyde	7421-93-4		U	0.0562	0.0112
Endrin ketone	53494-70-5		U	0.0562	0.0112
gamma Chlordane	5103-74-2		U	0.0562	0.0112
gamma-BHC (Lindane)	58-89-9		U	0.0562	0.0112
Heptachlor	76-44-8		U	0.0562	0.0112
Heptachlor epoxide	1024-57-3		U	0.0562	0.0112
Methoxychlor	72-43-5		U	0.0562	0.0112
Toxaphene	8001-35-2		U	1.12	0.337

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	74.6	25	140	
Decachlorobiphenyl	61.3	30	135	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG357014**
Collect Date: **02/16/2011 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3510C**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/L**

Instrument: **HP9**
Prep Date: **02/18/2011 09:01**
Cal Date: **02/18/2011 18:51**
Run Date: **02/21/2011 21:58**
File ID: **9GR60492.R**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	0.562	0.281
Aroclor-1221	11104-28-2		U	0.562	0.281
Aroclor-1232	11141-16-5		U	0.562	0.281
Aroclor-1242	53469-21-9		U	0.562	0.281
Aroclor-1248	12672-29-6		U	0.562	0.281

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG357014**
Collect Date: **02/16/2011 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3510C**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/L**

Instrument: **HP9**
Prep Date: **02/18/2011 09:01**
Cal Date: **02/18/2011 18:51**
Run Date: **02/21/2011 21:58**
File ID: **9GR60492.R**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1254	11097-69-1		U	0.562	0.281
Aroclor-1260	11096-82-5		U	0.562	0.281

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	87.5	30	132	
Decachlorobiphenyl	80.3	40	135	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG357222**
Collect Date: **02/16/2011 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3510C**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS15**
Prep Date: **02/22/2011 08:31**
Cal Date: **02/15/2011 12:28**
Run Date: **02/22/2011 13:29**
File ID: **15M03987**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	0.0568	0.0284
Acenaphthylene	208-96-8		U	0.0568	0.0284
Acenaphthene	83-32-9		U	0.0568	0.0284
Fluorene	86-73-7		U	0.0568	0.0284
Phenanthrene	85-01-8		U	0.0568	0.0284
Anthracene	120-12-7		U	0.0568	0.0284
Fluoranthene	206-44-0		U	0.0568	0.0284
Pyrene	129-00-0		U	0.0568	0.0284
Benzo(a)anthracene	56-55-3		U	0.0568	0.0284
Chrysene	218-01-9		U	0.0568	0.0284
Benzo(b)fluoranthene	205-99-2		U	0.0568	0.0284
Benzo(k)fluoranthene	207-08-9		U	0.0568	0.0284
Benzo(a)pyrene	50-32-8		U	0.0568	0.0284
Indeno(1,2,3-cd)pyrene	193-39-5		U	0.0568	0.0284
Dibenzo(a,h)anthracene	53-70-3		U	0.0568	0.0284
Benzo(g,h,i)perylene	191-24-2		U	0.0568	0.0284
1-Methylnaphthalene	90-12-0		U	0.0568	0.0284
2-Methylnaphthalene	91-57-6		U	0.0568	0.0284

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	95.7	35	114	
2-Fluorobiphenyl	99.6	50	110	
p-Terphenyl-d14	103	33	141	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 12:20**

PrePrep Method: **NONE**
Prep Method: **9040C**
Analytical Method: **9040C**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113473901**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	5.48			

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG356943**
Collect Date: **02/16/2011 12:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7471A**
Analytical Method: **7471A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **02/18/2011 06:18**
Cal Date: **02/18/2011 08:52**
Run Date: **02/18/2011 09:27**
File ID: **HY.021811.092730**
Percent Solid: **81.7**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.112	J	0.293	0.0117

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 12:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:37**
File ID: **T2.021811.113741**
Percent Solid: **81.7**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	0.960		0.869	0.435
Barium, Total	7440-39-3	15.6		0.435	0.217
Beryllium, Total	7440-41-7	0.550		0.435	0.217
Cadmium, Total	7440-43-9		U	0.435	0.217
Calcium, Total	7440-70-2	252		8.69	4.35
Chromium, Total	7440-47-3	32.2		0.869	0.435
Cobalt, Total	7440-48-4	3.43		0.869	0.435
Copper, Total	7440-50-8	26.3		0.869	0.435
Magnesium, Total	7439-95-4	640		21.7	10.9
Manganese, Total	7439-96-5	43.4		0.435	0.217
Nickel, Total	7440-02-0	13.5		1.74	0.869
Potassium, Total	7440-09-7	375		43.5	21.7
Silver, Total	7440-22-4		U	1.74	0.869
Sodium, Total	7440-23-5		U	21.7	10.9
Vanadium, Total	7440-62-2	79.2		0.435	0.217
Zinc, Total	7440-66-6	12.8		0.869	0.435

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 12:40**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **20**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 12:38**
File ID: **T2.021811.123844**
Percent Solid: **81.7**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	17400		348	174
Iron, Total	7439-89-6	52900		52.2	26.1

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG356983**
Collect Date: **02/16/2011 12:40**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **5**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **02/18/2011 05:52**
Cal Date: **02/18/2011 11:54**
Run Date: **02/18/2011 17:02**
File ID: **EL.021811.170206**
Percent Solid: **81.7**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	9.09		1.78	0.888
Lead, Total	7439-92-1	14.7		1.18	0.592
Selenium, Total	7782-49-2	0.742	J	1.18	0.592
Thallium, Total	7440-28-0	0.465		0.237	0.118

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 12:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 18:41**
File ID: **15G25185.F**
Percent Solid: **81.7**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	2.02	0.404
4,4'-DDE	72-55-9		U	2.02	0.404
4,4'-DDT	50-29-3		U	2.02	0.404
Aldrin	309-00-2		U	2.02	0.404
alpha Chlordane	5103-71-9		U	2.02	0.404
alpha-BHC	319-84-6		U	2.02	0.404
beta-BHC	319-85-7		U	2.02	0.404
delta-BHC	319-86-8		U	2.02	0.404
Dieldrin	60-57-1		U	2.02	0.404
Endosulfan I	959-98-8		U	2.02	0.404
Endosulfan II	33213-65-9		U	2.02	0.404
Endosulfan sulfate	1031-07-8		U	2.02	0.404
Endrin	72-20-8		U	2.02	0.404
Endrin aldehyde	7421-93-4		U	2.02	0.404
Endrin ketone	53494-70-5		U	2.02	0.404
gamma Chlordane	5103-74-2		U	2.02	0.404
gamma-BHC (Lindane)	58-89-9		U	2.02	0.404
Heptachlor	76-44-8		U	2.02	0.404
Heptachlor epoxide	1024-57-3		U	2.02	0.404
Methoxychlor	72-43-5		U	2.02	0.404
Toxaphene	8001-35-2		U	40.4	20.4

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	56.5	70	125	*
Decachlorobiphenyl	54.7	55	130	*

***** Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG357027**
Collect Date: **02/16/2011 12:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP9**
Prep Date: **02/18/2011 09:37**
Cal Date: **02/18/2011 18:51**
Run Date: **02/22/2011 12:26**
File ID: **9GR60509.R**
Percent Solid: **81.7**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	20.2	10.1
Aroclor-1221	11104-28-2		U	20.2	10.1
Aroclor-1232	11141-16-5		U	20.2	10.1
Aroclor-1242	53469-21-9		U	20.2	10.1
Aroclor-1248	12672-29-6		U	20.2	10.1
Aroclor-1254	11097-69-1		U	20.2	10.1
Aroclor-1260	11096-82-5		U	20.2	10.1

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	83.8	29	133	
Decachlorobiphenyl	87.4	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 12:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 11:36**
File ID: **7M50505**
Percent Solid: **81.7**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	3.02	1.51
Acenaphthylene	208-96-8		U	3.02	1.51
Acenaphthene	83-32-9		U	3.02	1.51
Fluorene	86-73-7		U	3.02	1.51
Phenanthrene	85-01-8		U	3.02	1.51
Anthracene	120-12-7		U	3.02	1.51
Fluoranthene	206-44-0		U	3.02	1.51
Pyrene	129-00-0		U	3.02	1.51
Benzo(a)anthracene	56-55-3		U	3.02	1.51
Chrysene	218-01-9		U	3.02	1.51
Benzo(b)fluoranthene	205-99-2		U	3.02	1.51
Benzo(k)fluoranthene	207-08-9		U	3.02	1.51
Benzo(a)pyrene	50-32-8		U	3.02	1.51
Indeno(1,2,3-cd)pyrene	193-39-5		U	3.02	1.51
Dibenzo(a,h)anthracene	53-70-3		U	3.02	1.51
Benzo(g,h,i)perylene	191-24-2		U	3.02	1.51
1-Methylnaphthalene	90-12-0		U	3.02	1.51
2-Methylnaphthalene	91-57-6		U	3.02	1.51

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	73.0	35	100	
2-Fluorobiphenyl	66.3	45	105	
p-Terphenyl-d14	92.6	30	125	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 12:40**

PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113474701**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	4.87			

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG357101**
Collect Date: **02/16/2011 12:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **02/22/2011 09:07**
Cal Date:
Run Date: **02/22/2011 09:07**
File ID: **B1.357101-0135**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	81.7		1.00	1.00

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG356943**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7471A**
Analytical Method: **7471A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **02/18/2011 06:19**
Cal Date: **02/18/2011 08:52**
Run Date: **02/18/2011 09:29**
File ID: **HY.021811.092915**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.122	J	0.305	0.0122

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:59**
File ID: **T2.021811.115930**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	10600		17.3	8.64
Antimony, Total	7440-36-0	0.679	J	0.864	0.432
Barium, Total	7440-39-3	15.3		0.432	0.216
Beryllium, Total	7440-41-7	0.580		0.432	0.216
Cadmium, Total	7440-43-9		U	0.432	0.216
Calcium, Total	7440-70-2	250		8.64	4.32
Chromium, Total	7440-47-3	26.9		0.864	0.432
Cobalt, Total	7440-48-4	4.59		0.864	0.432
Copper, Total	7440-50-8	22.9		0.864	0.432

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**
PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**
Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:59**
File ID: **T2.021811.115930**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Magnesium, Total	7439-95-4	663		21.6	10.8
Nickel, Total	7440-02-0	12.8		1.73	0.864
Potassium, Total	7440-09-7	349		43.2	21.6
Silver, Total	7440-22-4		U	1.73	0.864
Sodium, Total	7440-23-5		U	21.6	10.8
Vanadium, Total	7440-62-2	69.2		0.432	0.216
Zinc, Total	7440-66-6	12.1		0.864	0.432

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 12:45**
Sample Tag: **DL01**
PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **20**
Units: **mg/kg**
Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 12:53**
File ID: **T2.021811.125312**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	49900		51.8	25.9
Manganese, Total	7439-96-5	81.2		8.64	4.32

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG356983**
Collect Date: **02/16/2011 12:45**
Sample Tag: **DL01**
PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **5**
Units: **mg/kg**
Instrument: **ELAN-ICP**
Prep Date: **02/18/2011 05:52**
Cal Date: **02/18/2011 11:54**
Run Date: **02/18/2011 17:08**
File ID: **EL.021811.170851**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	10.3		1.86	0.928
Lead, Total	7439-92-1	14.8		1.24	0.619
Selenium, Total	7782-49-2	0.979	J	1.24	0.619
Thallium, Total	7440-28-0	0.418		0.248	0.124

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**
PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**
Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 19:09**
File ID: **15G25186.F**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	2.06	0.411
4,4'-DDE	72-55-9		U	2.06	0.411
4,4'-DDT	50-29-3		U	2.06	0.411
Aldrin	309-00-2		U	2.06	0.411
alpha Chlordane	5103-71-9		U	2.06	0.411

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 19:09**
File ID: **15G25186.F**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
alpha-BHC	319-84-6		U	2.06	0.411
beta-BHC	319-85-7		U	2.06	0.411
delta-BHC	319-86-8		U	2.06	0.411
Dieldrin	60-57-1		U	2.06	0.411
Endosulfan I	959-98-8		U	2.06	0.411
Endosulfan II	33213-65-9		U	2.06	0.411
Endosulfan sulfate	1031-07-8		U	2.06	0.411
Endrin	72-20-8		U	2.06	0.411
Endrin aldehyde	7421-93-4		U	2.06	0.411
Endrin ketone	53494-70-5		U	2.06	0.411
gamma Chlordane	5103-74-2		U	2.06	0.411
gamma-BHC (Lindane)	58-89-9		U	2.06	0.411
Heptachlor	76-44-8		U	2.06	0.411
Heptachlor epoxide	1024-57-3		U	2.06	0.411
Methoxychlor	72-43-5		U	2.06	0.411
Toxaphene	8001-35-2		U	41.1	20.8

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	54.9	70	125	*
Decachlorobiphenyl	54.6	55	130	*

***** Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG357027**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP9**
Prep Date: **02/18/2011 09:37**
Cal Date: **02/18/2011 18:51**
Run Date: **02/21/2011 23:28**
File ID: **9GR60497.R**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	20.6	10.3
Aroclor-1221	11104-28-2		U	20.6	10.3
Aroclor-1232	11141-16-5		U	20.6	10.3
Aroclor-1242	53469-21-9		U	20.6	10.3
Aroclor-1248	12672-29-6		U	20.6	10.3
Aroclor-1254	11097-69-1		U	20.6	10.3
Aroclor-1260	11096-82-5		U	20.6	10.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	77.5	29	133	
Decachlorobiphenyl	85.6	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 12:03**
File ID: **7M50506**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	3.12	1.56
Acenaphthylene	208-96-8		U	3.12	1.56
Acenaphthene	83-32-9		U	3.12	1.56
Fluorene	86-73-7		U	3.12	1.56
Phenanthrene	85-01-8		U	3.12	1.56
Anthracene	120-12-7		U	3.12	1.56
Fluoranthene	206-44-0		U	3.12	1.56
Pyrene	129-00-0		U	3.12	1.56
Benzo(a)anthracene	56-55-3		U	3.12	1.56
Chrysene	218-01-9		U	3.12	1.56
Benzo(b)fluoranthene	205-99-2		U	3.12	1.56
Benzo(k)fluoranthene	207-08-9		U	3.12	1.56
Benzo(a)pyrene	50-32-8		U	3.12	1.56
Indeno(1,2,3-cd)pyrene	193-39-5		U	3.12	1.56
Dibenzo(a,h)anthracene	53-70-3		U	3.12	1.56
Benzo(g,h,i)perylene	191-24-2		U	3.12	1.56
1-Methylnaphthalene	90-12-0		U	3.12	1.56
2-Methylnaphthalene	91-57-6		U	3.12	1.56

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	68.7	35	100	
2-Fluorobiphenyl	62.2	45	105	
p-Terphenyl-d14	101	30	125	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 12:45**

PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113475601**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	4.80			

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG357101**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **02/22/2011 09:07**
Cal Date:
Run Date: **02/22/2011 09:07**
File ID: **B1.357101-0136**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	78.9		1.00	1.00

Login Number: L11020447

Department: Login

Chain of Custody:

Shipment Conditions

COC #	Cooler #	Temperature
2424	0014536	1.0

Sample Management: Site #1-TPS-2-16-11-COMP: metals jar received broken, transferred sample into another container.

Sample Identification

Lab ID	Client ID
L11020447-01	SITE #1-TPS-2-16-11-COMP
L11020447-02	SITE #1-2-16-11-DUP
L11020447-03	SITE #1-2-16-11-MS
L11020447-04	SITE #1-2-16-11-MSD
L11020447-05	SITE #1-2-16-11-FB
L11020447-06	SITE #1-2-16-11-CLAY-C
L11020447-07	SITE #1-2-16-11-CLAY-C-2

Narrative ID: 21600
Approved By: Stephanie Mossburg
Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Semivolatiles Data

2.1.1 Semivolatiles GC/MS Data (827-PAHL)

2.1.1.1 Summary Data

Login Number: L11020447

Department: Semivolatiles

Analyst: Cassie A. Augenstein

METHOD

Preparation 3510C/3545

Analysis SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: Analytes were detected above the applicable reporting limit for the following analytes: 2-Fluorobiphenyl. Please see the applicable QC report for a detailed presentation of the failures.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: Benzo[a]pyrene. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 22109
Approved By: Mike Cochran

LABORATORY REPORT

L11020447

03/01/11 15:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SITE #1-TPS-2-16-11-COMP	L11020447-01	8270C	1	17-FEB-11
SITE #1-2-16-11-DUP	L11020447-02	8270C	1	17-FEB-11
SITE #1-2-16-11-MS	L11020447-03	8270C	1	17-FEB-11
SITE #1-2-16-11-MSD	L11020447-04	8270C	1	17-FEB-11
SITE #1-2-16-11-FB	L11020447-05	8270C	1	17-FEB-11
SITE #1-2-16-11-CLAY-C	L11020447-06	8270C	1	17-FEB-11
SITE #1-2-16-11-CLAY-C-2	L11020447-07	8270C	1	17-FEB-11

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-01	PrePrep Method:	NONE	Instrument:	HPMS7
Client ID:	SITE #1-TPS-2-16-11-COMP	Prep Method:	3545	Prep Date:	02/18/2011 08:43
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	02/11/2011 16:13
Workgroup Number:	WG357050	Analyst:	CAA	Run Date:	02/21/2011 12:30
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	7M50507
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	2.89	1.45
Acenaphthylene	208-96-8		U	2.89	1.45
Acenaphthene	83-32-9		U	2.89	1.45
Fluorene	86-73-7		U	2.89	1.45
Phenanthrene	85-01-8	1.96	J	2.89	1.45
Anthracene	120-12-7		U	2.89	1.45
Fluoranthene	206-44-0	4.24		2.89	1.45
Pyrene	129-00-0	3.59		2.89	1.45
Benzo(a)anthracene	56-55-3	1.72	J	2.89	1.45
Chrysene	218-01-9	2.30	J	2.89	1.45
Benzo(b)fluoranthene	205-99-2	2.32	J	2.89	1.45
Benzo(k)fluoranthene	207-08-9	2.00	J	2.89	1.45
Benzo(a)pyrene	50-32-8		U	2.89	1.45
Indeno(1,2,3-cd)pyrene	193-39-5	1.46	J	2.89	1.45
Dibenzo(a,h)anthracene	53-70-3		U	2.89	1.45
Benzo(g,h,i)perylene	191-24-2	1.86	J	2.89	1.45
1-Methylnaphthalene	90-12-0		U	2.89	1.45
2-Methylnaphthalene	91-57-6		U	2.89	1.45

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	76.8	35	100	
2-Fluorobiphenyl	66.2	45	105	
p-Terphenyl-d14	93.0	30	125	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-02	PrePrep Method:	NONE	Instrument:	HPMS7
Client ID:	SITE #1-2-16-11-DUP	Prep Method:	3545	Prep Date:	02/18/2011 08:43
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	02/11/2011 16:13
Workgroup Number:	WG357050	Analyst:	CAA	Run Date:	02/21/2011 13:53
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	7M50510
Sample Tag:	01	Units:	ug/kg	Percent Solid:	85.5

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	2.89	1.45
Acenaphthylene	208-96-8		U	2.89	1.45
Acenaphthene	83-32-9		U	2.89	1.45
Fluorene	86-73-7		U	2.89	1.45
Phenanthrene	85-01-8	1.90	J	2.89	1.45
Anthracene	120-12-7		U	2.89	1.45
Fluoranthene	206-44-0	5.00		2.89	1.45
Pyrene	129-00-0	4.34		2.89	1.45
Benzo(a)anthracene	56-55-3	2.21	J	2.89	1.45
Chrysene	218-01-9	2.69	J	2.89	1.45
Benzo(b)fluoranthene	205-99-2	3.26		2.89	1.45
Benzo(k)fluoranthene	207-08-9	2.24	J	2.89	1.45
Benzo(a)pyrene	50-32-8	2.46	J	2.89	1.45
Indeno(1,2,3-cd)pyrene	193-39-5	1.76	J	2.89	1.45
Dibenzo(a,h)anthracene	53-70-3		U	2.89	1.45
Benzo(g,h,i)perylene	191-24-2	2.18	J	2.89	1.45
1-Methylnaphthalene	90-12-0		U	2.89	1.45
2-Methylnaphthalene	91-57-6		U	2.89	1.45

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	66.7	35	100	
2-Fluorobiphenyl	60.4	45	105	
p-Terphenyl-d14	87.1	30	125	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 12:58**
File ID: **7M50508**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3	35.5		2.92	1.46
Acenaphthylene	208-96-8	29.2		2.92	1.46
Acenaphthene	83-32-9	31.5		2.92	1.46
Fluorene	86-73-7	33.9		2.92	1.46
Phenanthrene	85-01-8	46.4		2.92	1.46
Anthracene	120-12-7	46.9		2.92	1.46
Fluoranthene	206-44-0	58.5		2.92	1.46
Pyrene	129-00-0	52.8		2.92	1.46
Benzo(a)anthracene	56-55-3	49.0		2.92	1.46
Chrysene	218-01-9	48.1		2.92	1.46
Benzo(b)fluoranthene	205-99-2	53.6		2.92	1.46
Benzo(k)fluoranthene	207-08-9	38.3		2.92	1.46
Benzo(a)pyrene	50-32-8	48.9		2.92	1.46
Indeno(1,2,3-cd)pyrene	193-39-5	46.2		2.92	1.46
Dibenzo(a,h)anthracene	53-70-3	46.1		2.92	1.46
Benzo(g,h,i)perylene	191-24-2	47.5		2.92	1.46
1-Methylnaphthalene	90-12-0	35.0		2.92	1.46
2-Methylnaphthalene	91-57-6	38.3		2.92	1.46

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	70.0	35	100	
2-Fluorobiphenyl	62.2	45	105	
p-Terphenyl-d14	95.7	30	125	

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 13:25**
File ID: **7M50509**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3	33.6		2.92	1.46
Acenaphthylene	208-96-8	30.0		2.92	1.46
Acenaphthene	83-32-9	32.6		2.92	1.46
Fluorene	86-73-7	36.7		2.92	1.46
Phenanthrene	85-01-8	48.5		2.92	1.46
Anthracene	120-12-7	50.4		2.92	1.46
Fluoranthene	206-44-0	56.2		2.92	1.46
Pyrene	129-00-0	51.5		2.92	1.46
Benzo(a)anthracene	56-55-3	48.5		2.92	1.46
Chrysene	218-01-9	48.0		2.92	1.46
Benzo(b)fluoranthene	205-99-2	54.5		2.92	1.46
Benzo(k)fluoranthene	207-08-9	38.3		2.92	1.46
Benzo(a)pyrene	50-32-8	48.3		2.92	1.46
Indeno(1,2,3-cd)pyrene	193-39-5	46.7		2.92	1.46
Dibenzo(a,h)anthracene	53-70-3	47.1		2.92	1.46
Benzo(g,h,i)perylene	191-24-2	47.9		2.92	1.46
1-Methylnaphthalene	90-12-0	34.4		2.92	1.46
2-Methylnaphthalene	91-57-6	37.4		2.92	1.46

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	65.0	35	100	
2-Fluorobiphenyl	63.2	45	105	
p-Terphenyl-d14	98.5	30	125	

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-05	PrePrep Method:	NONE	Instrument:	HPMS15
Client ID:	SITE #1-2-16-11-FB	Prep Method:	3510C	Prep Date:	02/22/2011 08:31
Matrix:	Water	Analytical Method:	8270C	Cal Date:	02/15/2011 12:28
Workgroup Number:	WG357222	Analyst:	CAA	Run Date:	02/22/2011 13:29
Collect Date:	02/16/2011 12:20	Dilution:	1	File ID:	15M03987
Sample Tag:	01	Units:	ug/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	0.0568	0.0284
Acenaphthylene	208-96-8		U	0.0568	0.0284
Acenaphthene	83-32-9		U	0.0568	0.0284
Fluorene	86-73-7		U	0.0568	0.0284
Phenanthrene	85-01-8		U	0.0568	0.0284
Anthracene	120-12-7		U	0.0568	0.0284
Fluoranthene	206-44-0		U	0.0568	0.0284
Pyrene	129-00-0		U	0.0568	0.0284
Benzo(a)anthracene	56-55-3		U	0.0568	0.0284
Chrysene	218-01-9		U	0.0568	0.0284
Benzo(b)fluoranthene	205-99-2		U	0.0568	0.0284
Benzo(k)fluoranthene	207-08-9		U	0.0568	0.0284
Benzo(a)pyrene	50-32-8		U	0.0568	0.0284
Indeno(1,2,3-cd)pyrene	193-39-5		U	0.0568	0.0284
Dibenzo(a,h)anthracene	53-70-3		U	0.0568	0.0284
Benzo(g,h,i)perylene	191-24-2		U	0.0568	0.0284
1-Methylnaphthalene	90-12-0		U	0.0568	0.0284
2-Methylnaphthalene	91-57-6		U	0.0568	0.0284

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	95.7	35	114	
2-Fluorobiphenyl	99.6	50	110	
p-Terphenyl-d14	103	33	141	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 12:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 11:36**
File ID: **7M50505**
Percent Solid: **81.7**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	3.02	1.51
Acenaphthylene	208-96-8		U	3.02	1.51
Acenaphthene	83-32-9		U	3.02	1.51
Fluorene	86-73-7		U	3.02	1.51
Phenanthrene	85-01-8		U	3.02	1.51
Anthracene	120-12-7		U	3.02	1.51
Fluoranthene	206-44-0		U	3.02	1.51
Pyrene	129-00-0		U	3.02	1.51
Benzo(a)anthracene	56-55-3		U	3.02	1.51
Chrysene	218-01-9		U	3.02	1.51
Benzo(b)fluoranthene	205-99-2		U	3.02	1.51
Benzo(k)fluoranthene	207-08-9		U	3.02	1.51
Benzo(a)pyrene	50-32-8		U	3.02	1.51
Indeno(1,2,3-cd)pyrene	193-39-5		U	3.02	1.51
Dibenzo(a,h)anthracene	53-70-3		U	3.02	1.51
Benzo(g,h,i)perylene	191-24-2		U	3.02	1.51
1-Methylnaphthalene	90-12-0		U	3.02	1.51
2-Methylnaphthalene	91-57-6		U	3.02	1.51

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	73.0	35	100	
2-Fluorobiphenyl	66.3	45	105	
p-Terphenyl-d14	92.6	30	125	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG357050**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **02/18/2011 08:43**
Cal Date: **02/11/2011 16:13**
Run Date: **02/21/2011 12:03**
File ID: **7M50506**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	3.12	1.56
Acenaphthylene	208-96-8		U	3.12	1.56
Acenaphthene	83-32-9		U	3.12	1.56
Fluorene	86-73-7		U	3.12	1.56
Phenanthrene	85-01-8		U	3.12	1.56
Anthracene	120-12-7		U	3.12	1.56
Fluoranthene	206-44-0		U	3.12	1.56
Pyrene	129-00-0		U	3.12	1.56
Benzo(a)anthracene	56-55-3		U	3.12	1.56
Chrysene	218-01-9		U	3.12	1.56
Benzo(b)fluoranthene	205-99-2		U	3.12	1.56
Benzo(k)fluoranthene	207-08-9		U	3.12	1.56
Benzo(a)pyrene	50-32-8		U	3.12	1.56
Indeno(1,2,3-cd)pyrene	193-39-5		U	3.12	1.56
Dibenzo(a,h)anthracene	53-70-3		U	3.12	1.56
Benzo(g,h,i)perylene	191-24-2		U	3.12	1.56
1-Methylnaphthalene	90-12-0		U	3.12	1.56
2-Methylnaphthalene	91-57-6		U	3.12	1.56

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	68.7	35	100	
2-Fluorobiphenyl	62.2	45	105	
p-Terphenyl-d14	101	30	125	

U Analyte was not detected. The concentration is below the reported LOD.

2.1.1.2 QC Summary Data

Example 8270 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:

	Example
Ax = Area of the characteristic ion for the compound being measured:	1261197
Cis = Concentration of the specific internal standard (ug/mL)	40
Ais = Area of the characteristic ion of the specific internal standard	608044
Cx = Concentration of the compound in the standard being measured (ug/mL)	50
RF = Calculated Response Factor	**1.65935**

2.0 Calculating the concentration (C) of a compound in water using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Vi)]

where:

	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Vi = Initial volume of sample extracted from prep log (mL)	1021
Cx = Concentration of the compound in the sample being measured (ug/mL)	0.016947
Cx = Concentration of the compound in the sample being measured (ug/L)	**16.947**

3.0 Calculating the concentration (C) of a compound in soil using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Wi)]

where:

	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Wi = Initial weight of sample extracted (g) from prep log	30
Cx = Concentration of the compound in the sample being measured (ug/g)	0.576763
Cx = Concentration of the compound in the sample being measured (ug/kg)	**576.7627**

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	**1153.525** ug/kg

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve plot

b = intercept from curve plot

Step 2: Calculate y from Quantitation Report

y = 16790/784838 = 0.02139

Step 3: Solve for x

x = (y - b)/m = [(0.02139 -(- 0.0435)]/ 0.0783 = 0.829

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.829) = 20.72 ug/L

Example Spreadsheet Calculation:

Slope from curve, m:	0.0783	
Intercept from curve, b:	-0.0435	
Area of analyte, Ax:	16790	
Area of Internal Standard , Ais:	784484	
Concentration of IS, Cis	25.00	ug/L
Response Ratio (y) :	0.021403	
Amount Ratio:	0.828897	
Concentration (Cx):	20.72241	ug/L

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**0.0259**	
Value of B from plot:	**0.0596**	
Value of C from plot:	**-0.0165**	
Area of analyte from quantitation report:	**203233**	
Area of IS from quantiation report:	**1425653**	
Response ratio, y:	**0.142554**	
C - y:	**-0.15905**	
Root 1 - Computed amount ratio , X1:	**-3.88278**	
Root 2 - Computed amount ratio , X2:	**1.581623**	use this solution
Concentration of IS, Cis:	**40.00**	
Concentration of analyte, Cx:	**63.26**	ug/L

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG356898
Analyst: CAF
Spike Analyst: CAF
Method: 3545
Run Date: 02/18/2011 08:43
SOP: ASE01 Revison 8
Spike Witness: CPD
Surr Solution: STD42350

Methylene Chloride Lot #: COA15249
Purified Lab Sand Lot #: COA14882
Diatomaceous Earth Lot #: COA14693
Sodium Sulfate,Anhydrous,Granular (Lot #: COA14988

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11020447-01	RS01			827-PAHL	20.58 g	.25 mL			1 mL	Colored
2	L11020447-02	SAMP			827-PAHL	20.22 g	.25 mL			1 mL	Colored
3	L11020447-03	MS01	L11020447-01		827-PAHL	20.38 g	.25 mL	1 mL	STD43935	1 mL	Colored
4	L11020447-04	SD01	L11020447-01		827-PAHL	20.38 g	.25 mL	1 mL	STD43935	1 mL	Colored
5	L11020447-06	SAMP			827-PAHL	20.3 g	.25 mL			1 mL	Colored
6	L11020447-07	SAMP			827-PAHL	20.3 g	.25 mL			1 mL	Colored
7	WG356898-01	REF	L11020447-01		827-PAHL	20.58 g	.25 mL			1 mL	Colored
8	WG356898-02	BLANK			827-PAHL	20 g	.25 mL			1 mL	Transparent
9	WG356898-03	LCS			827-PAHL	20 g	.25 mL	1 mL	STD43935	1 mL	Transparent
10	WG356898-04	MS	L11020447-01		827-PAHL	20.38 g	.25 mL	1 mL	STD43935	1 mL	Colored
11	WG356898-05	MSD	L11020447-01		827-PAHL	20.38 g	.25 mL	1 mL	STD43935	1 mL	Colored

Analyst: Cheryl A. Flowers

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 1923814
Report generated: 02/18/2011 16:01

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG357148
Analyst: CAF
Spike Analyst: CAF
Method: 3510C
Run Date: 02/22/2011 08:31
SOP: EXA01 Revison 15
Spike Witness: CSH
Surr Solution: STD42350

Methylene Chloride Lot #: COA15195
Fortified Solution Lot #: RGT15799
Sodium Sulfate,Anhydrous,Granular (Lot #: COA15226

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11020447-05	SAMP		N	827-PAHL	880 mL	.25 mL			1 mL	Transparent
2	WG357148-01	BLANK		N	827-PAHL	1000 mL	.25 mL			1 mL	Transparent
3	WG357148-02	LCS		N	827-PAHL	1000 mL	.25 mL	1 mL	STD43935	1 mL	Transparent
4	WG357148-03	LCS2		N	827-PAHL	1000 mL	.25 mL	1 mL	STD43935	1 mL	Transparent

Analyst: Cheryl A. Flowers

Reviewer: Chadwick Davis

EXTRACT - Modified 10/22/2008
PDF ID: 1925471
Report generated: 02/22/2011 11:10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 021111
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 9

Maintenance Log ID: 36416 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG356308, WG356011, WG356012

CCV Std: LCS STD:
Internal STD: COA14927 Surrogate STD: NA Calibration STD:

Comments: Ran ICAL due to last 3 compounds failing high.
ICAL:#22 Benzo[k]fluoranthene only calibrated to 5ppm.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	7M50408	WG356259-01 5ppm DFTPP	1	1	STD41383	02/11/11 07:31
2	7M50409	WG356259-01 5ppm DFTPP	1	1	STD41383	02/11/11 07:51
3	7M50410	WG356259-01 5ppm DFTPP	1	1	STD41383	02/11/11 08:06
4	7M50411	WG356259-01 5ppm DFTPP	1	1	STD41383	02/11/11 08:24
5	7M50412	WG356259-01 5ppm DFTPP	1	1	STD41383	02/11/11 08:40
6	7M50413	WG356259-02 1ppm PAHL STD	1	1	STD41768	02/11/11 08:57
7	7M50414	10PPM STD CHECK	1	1	STD41768	02/11/11 09:24
8	7M50415	WG356259-01 5ppm DFTPP	1	1	STD41383	02/11/11 12:48
9	7M50416	WG356259-01 5ppm DFTPP	1	1	STD41383	02/11/11 13:13
10	7M50417	WG356259-02 1ppm PAHL STD	1	1	STD41768	02/11/11 13:30
11	7M50418	WG356259-03 10ppm PAHL STD	1	1	STD41768	02/11/11 13:57
12	7M50419	WG356259-04 5ppm PAHL STD	1	1	STD41768	02/11/11 14:25
13	7M50420	WG356259-05 2.5ppm PAHL STD	1	1	STD41768	02/11/11 14:52
14	7M50421	WG356259-06 0.5ppm PAHL STD	1	1	STD41768	02/11/11 15:19
15	7M50422	WG356259-07 0.1ppm PAHL STD	1	1	STD41768	02/11/11 15:46
16	7M50423	WG356259-08 0.05ppm PAHL STD	1	1	STD41768	02/11/11 16:13
17	7M50424	WG356259-09 1ppm PAHL Alt Src STD	1	1	STD43326	02/11/11 16:41
18	7M50425	WG356163-01 BLK 02/10	1	1		02/11/11 17:08
19	7M50426	WG356163-02 LCS 02/10	1	1		02/11/11 17:36
20	7M50427	WG356163-03 LCS DUP 02/10	1	1		02/11/11 18:03
21	7M50428	L11020204-01	1	1		02/11/11 18:30
22	7M50429	L11020053-01 RE	1	1		02/11/11 18:57
23	7M50430	L11020223-01	1	1		02/11/11 19:24
24	7M50431	L11020165-01	1	1		02/11/11 19:51
25	7M50432	L11020124-15	7	1	SOIL	02/11/11 20:18
26	7M50433	L11020124-16	7	1	SOIL	02/11/11 20:45
27	7M50434	L11020124-17	7	1	SOIL	02/11/11 21:12
28	7M50435	L11020124-18	7	1	SOIL	02/11/11 21:39
29	7M50436	L11020124-19	7	1	SOIL	02/11/11 22:06
30	7M50437	L11020124-21 REF	7	1	SOIL	02/11/11 22:32
31	7M50438	L11020124-35 MS	7	1	SOIL	02/11/11 22:59
32	7M50439	L11020124-36 MSD	7	1	SOIL	02/11/11 23:26
33	7M50440	L11020118-01 200X	1	200		02/11/11 23:53
34	7M50441	L11020118-05 10X	1	10		02/12/11 00:19

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Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 021111

Analyst1: CAA Analyst2: NA

Method: 8270L SOP: MSS03 Rev: 9

Maintenance Log ID: 36416 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG356308, WG356011, WG356012

CCV Std: LCS STD:

Internal STD: COA14927 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			
	WG356259-01 5ppm DFTPP - Filament bad.			
2	X			
	WG356259-01 5ppm DFTPP - Tune failed.			
3	X			
	WG356259-01 5ppm DFTPP - Not enough std to inject.			
4	X			
	WG356259-01 5ppm DFTPP - Tune failed.			
6				
	WG356259-02 1ppm PAHL STD - Retention times need adjusted.			
8	X			
	WG356259-01 5ppm DFTPP - Tune failed.			
18				
	WG356163-01 BLK 02/10 - Phenanthrene >RL.			
19				
	WG356163-02 LCS 02/10 - 5 compounds high (DoD), 1 compound high (STD).			
20				
	WG356163-03 LCS DUP 02/10 - 6 compounds high (DoD), 1 compound high (STD).			
21				
	L11020204-01			
22				
	L11020053-01 RE - phenanthene >RL; QNS for 2nd re-extract.			
23				
	L11020223-01 - Phenanthrene >RL, needs re-extracted.			
24				
	L11020165-01 - Phenanthrene >RL, needs re-extracted.			
27				
	L11020124-17 - SS FBP low, needs re-extracted.			
34				
	L11020118-05 10X - SS NBZ high; Sample was analyzed at a dilution due to the extracts' dark color and viscosity.			

Page: 2 Approved: 14-FEB-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS15 Dataset: 021511
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 9

Maintenance Log ID: 36452 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG356524

CCV Std: LCS STD:
Internal STD: COA14927 Surrogate STD: NA Calibration STD:

Comments: Ran ICAL due to new column.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15M03931	BAKEOUT	1	1		02/15/11 07:56
2	15M03932	10PPM STD CHECK	1	1		02/15/11 08:24
3	15M03933	WG356529-01 5ppm DFTPP STD	1	1	STD41383	02/15/11 08:57
4	15M03934	WG356529-01 5ppm DFTPP STD	1	1	STD41383	02/15/11 09:19
5	15M03935	WG356529-02 1ppm PAHL STD	1	1	STD41768	02/15/11 09:38
6	15M03936	WG356529-03 10ppm PAHL STD	1	1	STD41768	02/15/11 10:06
7	15M03937	WG356529-04 5ppm PAHL STD	1	1	STD41768	02/15/11 10:34
8	15M03938	WG356529-05 2.5ppm PAHL STD	1	1	STD41768	02/15/11 11:02
9	15M03939	WG356529-06 0.5ppm PAHL STD	1	1	STD41768	02/15/11 11:30
10	15M03940	WG356529-07 0.1ppm PAHL STD	1	1	STD41768	02/15/11 11:59
11	15M03941	WG356529-08 0.05ppm PAHL STD	1	1	STD41768	02/15/11 12:28
12	15M03942	WG356529-09 1ppm PAHL Alt Src STD	1	1	STD43326	02/15/11 12:56
13	15M03943	WG356462-01 BLK 02/14	7	1	SOIL	02/15/11 13:24
14	15M03944	WG356462-02 LCS 02/14	7	1	SOIL	02/15/11 13:52
15	15M03945	WG356462-03 LCS DUP 02/14	7	1	SOIL	02/15/11 14:21
16	15M03946	L11020314-24 827-PAHL	7	1	SOIL	02/15/11 14:50
17	15M03947	L11020314-25 827-PAHL	7	1	SOIL	02/15/11 15:18
18	15M03948	L11020314-26 827-PAHL	7	1	SOIL	02/15/11 15:46
19	15M03949	L11020314-27 827-PAHL	7	1	SOIL	02/15/11 16:14
20	15M03950	L11020314-28 827-PAHL	7	1	SOIL	02/15/11 16:42
21	15M03951	L11020314-21 827-PAHL	7	1	SOIL	02/15/11 17:10
22	15M03952	L11020314-23 827-PAHL	7	1	SOIL	02/15/11 17:38
23	15M03953	L11020314-22 827-PAHL	7	1	SOIL	02/15/11 18:06
24	15M03954	L11020124-17 RE 827-PAHL	7	1	SOIL	02/15/11 18:33

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X			
	WG356529-01 5ppm DFTPP STD - Tune failed.			
16				
	L11020314-24 827-PAHL - SS FBP low, needs re-extracted.			
17				
	L11020314-25 827-PAHL - SS FBP low, needs re-extracted.			
22				

Page: 1 Approved: 16-FEB-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS15 Dataset: 021511

Analyst1: CAA Analyst2: NA

Method: 8270L SOP: MSS03 Rev: 9

Maintenance Log ID: 36452 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG356524

CCV Std: LCS STD:

Internal STD: COA14927 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes

L11020314-23 827-PAHL - SS FBP low, needs re-extracted.

 Approved: 16-FEB-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 022111
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 9

Maintenance Log ID: 36510 Syringe Filter Lot#:
Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG357050, WG357127

CCV Std: LCS STD:
Internal STD: COA14927 Surrogate STD: NA Calibration STD:

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	7M50496	WG357051-01 5ppm DFTPP	1	1	STD41383	02/21/11 06:59
2	7M50497	WG357051-02 1ppm PAHL STD	1	1	STD41768	02/21/11 07:16
3	7M50498	WG357051-02 1ppm PAHL STD	1	1	STD41768	02/21/11 07:43
4	7M50499	10ppm PAHL STD check	1	1	STD41768	02/21/11 09:02
5	7M50500	WG357051-01 5ppm DFTPP	1	1	STD41383	02/21/11 09:29
6	7M50501	WG357051-02 1ppm PAHL STD	1	1	STD41768	02/21/11 09:46
7	7M50502	WG357051-02 1ppm PAHL STD	1	1	STD41768	02/21/11 10:14
8	7M50503	WG356898-02 BLK 02/18	7	1	SOIL	02/21/11 10:41
9	7M50504	WG356898-03 LCS 02/18	7	1	SOIL	02/21/11 11:08
10	7M50505	L11020447-06	7	1	SOIL	02/21/11 11:36
11	7M50506	L11020447-07	7	1	SOIL	02/21/11 12:03
12	7M50507	L11020447-01 REF	7	1	SOIL	02/21/11 12:30
13	7M50508	L11020447-03 MS	7	1	SOIL	02/21/11 12:58
14	7M50509	L11020447-04 MSD	7	1	SOIL	02/21/11 13:25
15	7M50510	L11020447-02	7	1	SOIL	02/21/11 13:53
16	7M50511	WG357056-02 BLK 02/21	7	1	SOIL	02/21/11 14:31
17	7M50512	WG357056-03 LCS 02/21	7	1	SOIL	02/21/11 14:59
18	7M50513	L11020527-02	7	1	SOIL	02/21/11 15:26
19	7M50514	L11020527-05	7	1	SOIL	02/21/11 15:53
20	7M50515	L11020506-04	7	1	SOIL	02/21/11 16:21
21	7M50516	L11020527-04	7	1	SOIL	02/21/11 16:48
22	7M50517	L11020527-01	7	1	SOIL	02/21/11 17:15
23	7M50518	L11020527-03 5X	7	5	SOIL	02/21/11 17:42
24	7M50519	L11020506-01 REF 20X	7	20	SOIL	02/21/11 18:09
25	7M50520	L11020506-02 MS 20X	7	20	SOIL	02/21/11 18:37
26	7M50521	L11020506-03 MSD 20X	7	20	SOIL	02/21/11 19:04

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
	WG357051-02 1ppm PAHL STD - SS NBZ fails low.			
3	X			
	WG357051-02 1ppm PAHL STD - SS NBZ fails low.			
4				

Page: 1 Approved: 22-FEB-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 022111

Analyst1: CAA Analyst2: NA

Method: 8270L SOP: MSS03 Rev: 9

Maintenance Log ID: 36510 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG357050, WG357127

CCV Std: LCS STD:

Internal STD: COA14927 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
	10ppm PAHL STD check - Retention time check.			
6	X			
	WG357051-02 1ppm PAHL STD - CCV passes, rerun for DoD4.			
8				
	WG356898-02 BLK 02/18 - SS FBP low.			
16				
	WG357056-02 BLK 02/21 - SS TPH high (AF40).			
23	X	50	Over Calibration Range	#14, 16, 18, 19, 21, 22, 23, 24, 26
	L11020527-03 5X - Sample was analyzed at a dilution due to the extracts' dark color and viscosity.			
24				
	L11020506-01 REF 20X - Sample was analyzed at a dilution due to the extracts' dark color and viscosity.			
25				
	L11020506-02 MS 20X - Sample was analyzed at a dilution due to the extracts' dark color and viscosity.			
26				
	L11020506-03 MSD 20X - Sample was analyzed at a dilution due to the extracts' dark color and viscosity.			

Page: 2 Approved: 22-FEB-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS15 Dataset: 022211
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 9

Maintenance Log ID: 36522 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG357222

CCV Std: LCS STD:
Internal STD: COA14927 Surrogate STD: NA Calibration STD:

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15M03982	WG357220-01 5ppm DFTPP STD	1	1	STD41383	02/22/11 11:20
2	15M03983	WG357220-02 1ppm PAHL STD	1	1	STD41768	02/22/11 11:38
3	15M03984	WG357148-01 BLK 02/22	1	1		02/22/11 12:06
4	15M03985	WG357148-02 LCS 02/22	1	1		02/22/11 12:34
5	15M03986	WG357148-03 LCS DUP 02/22	1	1		02/22/11 13:02
6	15M03987	L11020447-05 827-PAHL	1	1		02/22/11 13:29

Comments

Seq.	Rerun	Dil.	Reason	Analytes
5				
	WG357148-03 LCS DUP 02/22 - 1 compound high.			

Page: 1 Approved: 24-FEB-11

Microbac Laboratories Inc.

Data Checklist

Date: 11-FEB-2011
Analyst: CAA
Analyst: NA
Method: 8270L
Instrument: HPMS7
Curve Workgroup: NA
Runlog ID: 38991
Analytical Workgroups: L11020204, 020053, 020223, 020165, 020124, 020118

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
14-FEB-2011

Secondary Reviewer:
14-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-14-2011 10:27:57

Microbac Laboratories Inc.

Data Checklist

Date: 15-FEB-2011
Analyst: CAA
Analyst: NA
Method: 8270L
Instrument: HPMS15
Curve Workgroup: NA
Runlog ID: 39037
Analytical Workgroups: L11020314, L11020124

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
16-FEB-2011

Secondary Reviewer:
16-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-16-2011 10:23:21

Microbac Laboratories Inc.

Data Checklist

Date: 21-FEB-2011
Analyst: CAA
Analyst: NA
Method: 8270L
Instrument: HPMS7
Curve Workgroup: NA
Runlog ID: 39136
Analytical Workgroups: L11020447, L11020527, L11020506

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
22-FEB-2011

Secondary Reviewer:
22-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-22-2011 15:06:12

Microbac Laboratories Inc.

Data Checklist

Date: 22-FEB-2011
Analyst: CAA
Analyst: NA
Method: 8270L
Instrument: HPMS15
Curve Workgroup: NA
Runlog ID: 39153
Analytical Workgroups: L11020447

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	NA
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
22-FEB-2011

Secondary Reviewer:
24-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-24-2011 12:18:18

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C

AAB#: WG357050

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-TPS-2-16-11-COM	01	02/16/11					02/18/11	1.9	14		02/21/11	3.2	40	
SITE #1-2-16-11-DUP	02	02/16/11					02/18/11	1.9	14		02/21/11	3.2	40	
SITE #1-2-16-11-MS	03	02/16/11					02/18/11	1.9	14		02/21/11	3.2	40	
SITE #1-2-16-11-MSD	04	02/16/11					02/18/11	1.9	14		02/21/11	3.2	40	
SITE #1-2-16-11-CLAY-C	06	02/16/11					02/18/11	1.8	14		02/21/11	3.1	40	
SITE #1-2-16-11-CLAY-C-	07	02/16/11					02/18/11	1.8	14		02/21/11	3.1	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1928596
Report generated 02/24/2011 13:13

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 8270C AAB#: WG357222

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-2-16-11-FB	05	02/16/11					02/22/11	5.8	7		02/22/11	.2	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1928596
Report generated 02/24/2011 13:13

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11020447
Instrument Id: HPMS7
Workgroup (AAB#): WG357050

Method: 8270L
CAL ID: HPMS7-11-FEB-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3
L11020447-01	1.00	01	66.2	76.8	93.0
L11020447-02	1.00	01	60.4	66.7	87.1
L11020447-03	1.00	01	62.2	70.0	95.7
L11020447-04	1.00	01	63.2	65.0	98.5
L11020447-06	1.00	01	66.3	73.0	92.6
L11020447-07	1.00	01	62.2	68.7	101
WG356898-02	1.00	01	41.0	37.2	56.0
WG356898-03	1.00	01	66.5	68.9	98.3

Surrogates	Surrogate Limits		
1 - 2-Fluorobiphenyl	45	-	105
2 - Nitrobenzene-d5	35	-	100
3 - p-Terphenyl-d14	30	-	125

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1925133
Report generated: 02/24/2011 13:15

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11020447
Instrument Id: HPMS15
Workgroup (AAB#): WG357222

Method: 8270L
CAL ID: HPMS15-15-FEB-11
Matrix: Water

Sample Number	Dilution	Tag	1	2	3
L11020447-05	1.00	01	99.6	95.7	103
WG357148-01	1.00	01	95.6	96.0	118
WG357148-02	1.00	01	76.9	76.0	117
WG357148-03	1.00	01	100	99.9	122

Surrogates	Surrogate Limits		
1 - 2-Fluorobiphenyl	50	-	110
2 - Nitrobenzene-d5	35	-	114
3 - p-Terphenyl-d14	33	-	141

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1925133
Report generated: 02/24/2011 13:15

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Work Group: WG357050
Blank File ID: 7M50503
Blank Sample ID: WG356898-02
Prep Date: 02/18/11 08:43
Instrument ID: HPMS7
Analyzed Date: 02/21/11 10:41
Method: 8270C
Analyst: CAA

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356898-03	7M50504	02/21/11 11:08	01
SITE #1-2-16-11-CLAY-C	L11020447-06	7M50505	02/21/11 11:36	01
SITE #1-2-16-11-CLAY-C-2	L11020447-07	7M50506	02/21/11 12:03	01
SITE #1-TPS-2-16-11-COMP	L11020447-01	7M50507	02/21/11 12:30	01
SITE #1-2-16-11-MS	L11020447-03	7M50508	02/21/11 12:58	01
SITE #1-2-16-11-MSD	L11020447-04	7M50509	02/21/11 13:25	01
SITE #1-2-16-11-DUP	L11020447-02	7M50510	02/21/11 13:53	01

Report Name: BLANK_SUMMARY
PDF File ID: 1928597
Report generated 02/24/2011 13:13

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Blank File ID: 15M03984
Prep Date: 02/22/11 08:31
Analyzed Date: 02/22/11 12:06
Analyst: CAA

Work Group: WG357222
Blank Sample ID: WG357148-01
Instrument ID: HPMS15
Method: 8270C

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG357148-02	15M03985	02/22/11 12:34	01
LCS2	WG357148-03	15M03986	02/22/11 13:02	01
SITE #1-2-16-11-FB	L11020447-05	15M03987	02/22/11 13:29	01

Report Name: BLANK_SUMMARY
PDF File ID: 1928597
Report generated 02/24/2011 13:13

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/18/11 08:43 Sample ID: WG356898-02
Instrument ID: HPMS7 Run Date: 02/21/11 10:41 Prep Method: 3545
File ID: 7M50503 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG357050 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS7-11-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Naphthalene	1.25	2.50	1.25	1	U
Acenaphthylene	1.25	2.50	1.25	1	U
Acenaphthene	1.25	2.50	1.25	1	U
Fluorene	1.25	2.50	1.25	1	U
Phenanthrene	1.25	2.50	1.25	1	U
Anthracene	1.25	2.50	1.25	1	U
Fluoranthene	1.25	2.50	1.25	1	U
Pyrene	1.25	2.50	1.25	1	U
Benzo(a)anthracene	1.25	2.50	1.25	1	U
Chrysene	1.25	2.50	1.25	1	U
Benzo(b)fluoranthene	1.25	2.50	1.25	1	U
Benzo(k)fluoranthene	1.25	2.50	1.25	1	U
Benzo(a)pyrene	1.25	2.50	1.25	1	U
Indeno(1,2,3-cd)pyrene	1.25	2.50	1.25	1	U
Dibenzo(a,h)anthracene	1.25	2.50	1.25	1	U
Benzo(g,h,i)perylene	1.25	2.50	1.25	1	U
1-Methylnaphthalene	1.25	2.50	1.25	1	U
2-Methylnaphthalene	1.25	2.50	1.25	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Nitrobenzene-d5	37.2	35 - 100	PASS
2-Fluorobiphenyl	41.0	45 - 105	FAIL
p-Terphenyl-d14	56.0	30 - 125	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1925130
24-FEB-2011 13:13

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/22/11 08:31 Sample ID: WG357148-01
Instrument ID: HPMS15 Run Date: 02/22/11 12:06 Prep Method: 3510C
File ID: 15M03984 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG357222 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS15-15-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Naphthalene	0.0250	0.0500	0.0250	1	U
Acenaphthylene	0.0250	0.0500	0.0250	1	U
Acenaphthene	0.0250	0.0500	0.0250	1	U
Fluorene	0.0250	0.0500	0.0250	1	U
Phenanthrene	0.0250	0.0500	0.0250	1	U
Anthracene	0.0250	0.0500	0.0250	1	U
Fluoranthene	0.0250	0.0500	0.0250	1	U
Pyrene	0.0250	0.0500	0.0250	1	U
Benzo(a)anthracene	0.0250	0.0500	0.0250	1	U
Chrysene	0.0250	0.0500	0.0250	1	U
Benzo(b)fluoranthene	0.0250	0.0500	0.0250	1	U
Benzo(k)fluoranthene	0.0250	0.0500	0.0250	1	U
Benzo(a)pyrene	0.0250	0.0500	0.0250	1	U
Indeno(1,2,3-cd)pyrene	0.0250	0.0500	0.0250	1	U
Dibenzo(a,h)anthracene	0.0250	0.0500	0.0250	1	U
Benzo(g,h,i)perylene	0.0250	0.0500	0.0250	1	U
1-Methylnaphthalene	0.0250	0.0500	0.0250	1	U
2-Methylnaphthalene	0.0250	0.0500	0.0250	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
Nitrobenzene-d5	96.0	35	-	114	PASS
2-Fluorobiphenyl	95.6	50	-	110	PASS
p-Terphenyl-d14	118	33	-	141	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1925130
24-FEB-2011 13:13

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG356898-03
Instrument ID: HPMS7 Run Time: 11:08 Prep Method: 3545
File ID: 7M50504 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG357050 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD43935 Cal ID: HPMS7-11-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Naphthalene	50.0	30.5	61.1	40 - 105	
Acenaphthylene	50.0	26.2	52.4	45 - 105	
Acenaphthene	50.0	29.4	58.8	45 - 110	
Fluorene	50.0	30.3	60.5	50 - 110	
Phenanthrene	50.0	37.0	74.1	50 - 110	
Anthracene	50.0	39.8	79.7	55 - 105	
Fluoranthene	50.0	44.3	88.6	55 - 115	
Pyrene	50.0	42.1	84.2	45 - 125	
Benzo(a)anthracene	50.0	43.1	86.3	50 - 110	
Chrysene	50.0	43.2	86.5	55 - 110	
Benzo(b)fluoranthene	50.0	47.6	95.2	45 - 115	
Benzo(k)fluoranthene	50.0	40.3	80.7	45 - 125	
Benzo(a)pyrene	50.0	46.2	92.4	50 - 110	
Indeno(1,2,3-cd)pyrene	50.0	45.5	91.1	40 - 120	
Dibenzo(a,h)anthracene	50.0	45.4	90.7	40 - 125	
Benzo(g,h,i)perylene	50.0	44.1	88.3	40 - 125	
1-Methylnaphthalene	50.0	31.1	62.2	35 - 100	
2-Methylnaphthalene	50.0	33.1	66.1	45 - 105	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Nitrobenzene-d5	68.9	35 - 100	PASS
2-Fluorobiphenyl	66.5	45 - 105	PASS
p-Terphenyl-d14	98.3	30 - 125	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1925131
Report generated: 02/24/2011 13:13

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Analyst: CAA Prep Method: 3510C
Instrument ID: HPMS15 Matrix: Water Method: 8270C
Workgroup (AAB#): WG357222 Units: ug/L
QC Key: DOD4 Lot #: STD43935

Sample ID: WG357148-02 LCS File ID: 15M03985 Run Date: 02/22/2011 12:34
Sample ID: WG357148-03 LCS2 File ID: 15M03986 Run Date: 02/22/2011 13:02

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Naphthalene	1.00	0.693	69.3	1.00	0.915	91.5	27.6	40 - 100	30	
Acenaphthylene	1.00	0.754	75.4	1.00	0.975	97.5	25.6	50 - 105	30	
Acenaphthene	1.00	0.737	73.7	1.00	0.947	94.7	25.0	45 - 110	30	
Fluorene	1.00	0.762	76.2	1.00	0.956	95.6	22.5	50 - 110	30	
Phenanthrene	1.00	0.881	88.1	1.00	0.993	99.3	12.0	50 - 115	30	
Anthracene	1.00	0.972	97.2	1.00	1.10	110	12.7	55 - 110	30	
Fluoranthene	1.00	0.989	98.9	1.00	1.05	105	6.00	55 - 115	30	
Pyrene	1.00	1.02	102	1.00	1.07	107	4.65	50 - 130	30	
Benzo(a)anthracene	1.00	1.02	102	1.00	1.06	106	3.69	55 - 110	30	
Chrysene	1.00	1.05	105	1.00	1.09	109	3.50	55 - 110	30	
Benzo(b)fluoranthene	1.00	1.05	105	1.00	1.11	111	5.65	45 - 120	30	
Benzo(k)fluoranthene	1.00	1.06	106	1.00	1.10	110	4.02	45 - 125	30	
Benzo(a)pyrene	1.00	1.09	109	1.00	1.15	115	5.15	55 - 110	30	*
Indeno(1,2,3-cd)pyrene	1.00	1.01	101	1.00	1.06	106	4.81	45 - 125	30	
Dibenzo(a,h)anthracene	1.00	0.977	97.7	1.00	1.03	103	5.73	40 - 125	30	
Benzo(g,h,i)perylene	1.00	0.989	98.9	1.00	1.05	105	5.59	40 - 125	30	
1-Methylnaphthalene	1.00	0.641	64.1	1.00	0.860	86.0	29.1	31 - 111	30	
2-Methylnaphthalene	1.00	0.695	69.5	1.00	0.912	91.2	26.9	45 - 105	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Nitrobenzene-d5	76.0	99.9	35 - 114	PASS
2-Fluorobiphenyl	76.9	100	50 - 110	PASS
p-Terphenyl-d14	117	122	33 - 141	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1925674
Report generated: 02/24/2011 13:13

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L11020447 Cal ID:HPMS7- 11-FEB-11 Worknum:WG357050
Instrument ID:HPMS7 Contract #: Prep Method:3545
Parent ID:L11020447-01 File ID:7M50507 Dil:1 Method:8270C
Sample ID:L11020447-03 MS File ID:7M50508 Dil:1 Matrix:Soil
Sample ID:L11020447-04 MSD File ID:7M50509 Dil:1 Units:ug/kg
Percent Solid:84.0

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Naphthalene	U	58.4	35.5	60.9	58.4	33.6	57.6	5.50	40 - 105	30	
Acenaphthylene	U	58.4	29.2	49.9	58.4	30.0	51.4	2.84	45 - 105	30	
Acenaphthene	U	58.4	31.5	53.9	58.4	32.6	55.9	3.55	45 - 110	30	
Fluorene	U	58.4	33.9	58.1	58.4	36.7	62.8	7.73	50 - 110	30	
Phenanthrene	1.96	58.4	46.4	76.1	58.4	48.5	79.7	4.45	50 - 110	30	
Anthracene	U	58.4	46.9	80.2	58.4	50.4	86.3	7.34	55 - 105	30	
Fluoranthene	4.24	58.4	58.5	92.9	58.4	56.2	88.9	4.02	55 - 115	30	
Pyrene	3.59	58.4	52.8	84.2	58.4	51.5	82	2.45	45 - 125	30	
Benzo(a)anthracene	1.72	58.4	49.0	80.9	58.4	48.5	80.1	0.877	50 - 110	30	
Chrysene	2.30	58.4	48.1	78.3	58.4	48.0	78.2	0.123	55 - 110	30	
Benzo(b)fluoranthene	2.32	58.4	53.6	87.8	58.4	54.5	89.3	1.61	45 - 115	30	
Benzo(k)fluoranthene	2.00	58.4	38.3	62.2	58.4	38.3	62.1	0.0455	45 - 125	30	
Benzo(a)pyrene	U	58.4	48.9	83.6	58.4	48.3	82.8	1.04	50 - 110	30	
Indeno(1,2,3-cd)pyrene	U	58.4	46.2	79	58.4	46.7	80	1.19	40 - 120	30	
Dibenzo(a,h)anthracene	U	58.4	46.1	78.9	58.4	47.1	80.7	2.23	40 - 125	30	
Benzo(g,h,i)perylene	1.86	58.4	47.5	78.1	58.4	47.9	78.9	0.941	40 - 125	30	
1-Methylnaphthalene	U	58.4	35.0	59.9	58.4	34.4	58.9	1.55	35 - 100	30	
2-Methylnaphthalene	U	58.4	38.3	65.5	58.4	37.4	64	2.36	45 - 105	30	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
PDF File ID: 1925132
Report generated 02/24/2011 13:13

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L11020447
Instrument: HPMS15
Analyst: CAA
Workgroup: WG356529

Tune ID: WG356529-01
Run Date: 02/15/2011
Run Time: 09:19
File ID: 15M03934
Cal ID: HPMS15-15-FEB-11

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	47.4	4927	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	51.2	5320	PASS
70.0	69.0	0	2.00	0	0	PASS
127	198	40.0	60.0	56.1	5830	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	10393	PASS
199	198	5.00	9.00	6.34	659	PASS
275	198	10.0	30.0	24.9	2588	PASS
365	198	1.00	100	1.91	198	PASS
441	443	0.0100	100	80.7	1085	PASS
442	198	40.0	100	70.5	7322	PASS
443	442	17.0	23.0	18.4	1344	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG356529-02	STD-CCV	01	02/15/2011 09:38	
WG356529-03	STD	01	02/15/2011 10:06	
WG356529-04	STD	01	02/15/2011 10:34	
WG356529-05	STD	01	02/15/2011 11:02	
WG356529-06	STD	01	02/15/2011 11:30	
WG356529-07	STD	01	02/15/2011 11:59	
WG356529-08	STD	01	02/15/2011 12:28	
WG356529-09	SSCV	01	02/15/2011 12:56	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1928600
Report generated 02/24/2011 13:14

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L11020447
Instrument: HPMS15
Analyst: CAA
Workgroup: WG357220

Tune ID: WG357220-01
Run Date: 02/22/2011
Run Time: 11:20
File ID: 15M03982
Cal ID: HPMS15-15-FEB-11

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	39.6	5073	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	48.4	6189	PASS
70.0	69.0	0	2.00	0	0	PASS
127	198	40.0	60.0	54.0	6913	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	12799	PASS
199	198	5.00	9.00	7.88	1009	PASS
275	198	10.0	30.0	27.8	3552	PASS
365	198	1.00	100	2.76	353	PASS
441	443	0.0100	100	76.5	1623	PASS
442	198	40.0	100	85.7	10966	PASS
443	442	17.0	23.0	19.3	2121	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG357220-02	CCV	01	02/22/2011 11:38	
WG357148-01	BLANK	01	02/22/2011 12:06	
WG357148-02	LCS	01	02/22/2011 12:34	
WG357148-03	LCS2	01	02/22/2011 13:02	
L11020447-05	SITE #1-2-16-11-FB	01	02/22/2011 13:29	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1928600
Report generated 02/24/2011 13:14

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L11020447
Instrument: HPMS7
Analyst: CAA
Workgroup: WG356259

Tune ID: WG356259-01
Run Date: 02/11/2011
Run Time: 13:13
File ID: 7M50416
Cal ID: HPMS7-11-FEB-11

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	39.2	71719	PASS
68.0	69.0	0	2.00	0.773	668	PASS
69.0	198	0	100	47.2	86472	PASS
70.0	69.0	0	2.00	0.576	498	PASS
127	198	40.0	60.0	50.5	92405	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	183104	PASS
199	198	5.00	9.00	6.99	12804	PASS
275	198	10.0	30.0	26.8	48981	PASS
365	198	1.00	100	3.74	6848	PASS
441	443	0.0100	100	78.0	17361	PASS
442	198	40.0	100	62.4	114272	PASS
443	442	17.0	23.0	19.5	22252	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG356259-02	STD-CCV	01	02/11/2011 13:30	
WG356259-03	STD	01	02/11/2011 13:57	
WG356259-04	STD	01	02/11/2011 14:25	
WG356259-05	STD	01	02/11/2011 14:52	
WG356259-06	STD	01	02/11/2011 15:19	
WG356259-07	STD	01	02/11/2011 15:46	
WG356259-08	STD	01	02/11/2011 16:13	
WG356259-09	SSCV	01	02/11/2011 16:41	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1928600
Report generated 02/24/2011 13:14

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L11020447
Instrument: HPMS7
Analyst: CAA
Workgroup: WG357051

Tune ID: WG357051-01
Run Date: 02/21/2011
Run Time: 09:29
File ID: 7M50500
Cal ID: HPMS7-11-FEB-11

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	41.1	39537	PASS
68.0	69.0	0	2.00	0.559	266	PASS
69.0	198	0	100	49.5	47586	PASS
70.0	69.0	0	2.00	0.309	147	PASS
127	198	40.0	60.0	54.5	52368	PASS
197	198	0	1.00	0.196	188	PASS
198	198	100	100	100	96085	PASS
199	198	5.00	9.00	7.02	6748	PASS
275	198	10.0	30.0	24.8	23844	PASS
365	198	1.00	100	3.80	3654	PASS
441	443	0.0100	100	81.3	6624	PASS
442	198	40.0	100	43.3	41581	PASS
443	442	17.0	23.0	19.6	8144	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG357051-02	CCV	01	02/21/2011 10:14	
WG356898-02	BLANK	01	02/21/2011 10:41	
WG356898-03	LCS	01	02/21/2011 11:08	
L11020447-06	SITE #1-2-16-11-CLAY-C	01	02/21/2011 11:36	
L11020447-07	SITE #1-2-16-11-CLAY-C-2	01	02/21/2011 12:03	
L11020447-01	SITE #1-TPS-2-16-11-COMP	01	02/21/2011 12:30	
WG356898-01	REF	01	02/21/2011 12:30	
L11020447-03	SITE #1-2-16-11-MS	01	02/21/2011 12:58	
WG356898-04	MS	01	02/21/2011 12:58	
L11020447-04	SITE #1-2-16-11-MSD	01	02/21/2011 13:25	
WG356898-05	MSD	01	02/21/2011 13:25	
L11020447-02	SITE #1-2-16-11-DUP	01	02/21/2011 13:53	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1928600
Report generated 02/24/2011 13:14

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447 **Instrument ID:** HPMS7

Analytical Method: 8270C **Initial Calibration Date:** 11-FEB-11 16:13

ICAL Workgroup: WG356259 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Acenaphthene	CCC	1.026	8.49		
Benzo[a]pyrene	CCC	1.089	7.22		
Fluoranthene	CCC	1.120	8.26		
1-Methylnaphthalene		0.6124	12.7		
2-Methylnaphthalene		0.6089	6.57		
Acenaphthylene		1.813	6.91		
Anthracene		0.8453	11.1		
Benzo[a]anthracene		1.053	8.50		
Benzo[b]fluoranthene		1.056	12.5		
Benzo[ghi]perylene		1.140	5.08		
Benzo[k]fluoranthene		1.239	11.7		
Chrysene		1.078	5.23		
Dibenz[ah]anthracene		1.120	5.95		
Fluorene		1.185	7.68		
Indeno[1,2,3-cd]pyrene		1.340	5.85		
Naphthalene		0.9447	6.99		
Phenanthrene		0.9715	6.47		
Pyrene		1.238	4.43		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447 **Instrument ID:** HPMS15

Analytical Method: 8270C **Initial Calibration Date:** 15-FEB-11 12:28

ICAL Workgroup: WG356529 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Acenaphthene	CCC	1.156	2.99		
Benzo[a]pyrene	CCC	1.075	3.95		
Fluoranthene	CCC	1.166	4.85		
1-Methylnaphthalene		0.6820	5.88		
2-Methylnaphthalene		0.6832	2.92		
Acenaphthylene		1.800	4.23		
Anthracene		1.020	7.96		
Benzo[a]anthracene		1.005	4.70		
Benzo[b]fluoranthene		1.147	4.59		
Benzo[ghi]perylene		1.088	1.29		
Benzo[k]fluoranthene		1.069	5.13		
Chrysene		1.004	6.99		
Dibenz[ah]anthracene		1.059	2.31		
Fluorene		1.389	3.73		
Indeno[1,2,3-cd]pyrene		1.302	2.35		
Naphthalene		1.017	4.98		
Phenanthrene		1.123	4.45		
Pyrene		1.152	5.79		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8270C
Instrument ID: HPMS7
Initial Calibration Date: 11-FEB-11 16:13
Column ID: F

Analyte	WG356259-02			WG356259-03			WG356259-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Acenaphthene	1.00	64703.0000	1.088	10.0	523252.000	0.8607	5.00	267978.000	0.9598
Benzo[a]pyrene	1.00	135369.000	1.159	10.0	1091014.00	1.058	5.00	557939.000	1.125
Fluoranthene	1.00	132445.000	1.215	10.0	1062024.00	0.9356	5.00	560282.000	1.089
1-Methylnaphthalene	1.00	68572.0000	0.6290	10.0	538172.000	0.4846	5.00	274065.000	0.5516
2-Methylnaphthalene	1.00	71292.0000	0.6539	10.0	604358.000	0.5442	5.00	304466.000	0.6127
Acenaphthylene	1.00	116961.000	1.966	10.0	973230.000	1.601	5.00	497775.000	1.783
Anthracene	1.00	104230.000	0.9560	10.0	880580.000	0.7758	5.00	455540.000	0.8856
Benzo[a]anthracene	1.00	133840.000	1.137	10.0	1093733.00	1.092	5.00	565990.000	1.130
Benzo[b]fluoranthene	1.00	137328.000	1.176	10.0	1145127.00	1.110	5.00	551407.000	1.111
Benzo[ghi]perylene	1.00	145431.000	1.246	10.0	1119202.00	1.085	5.00	568412.000	1.146
Benzo[k]fluoranthene	1.00	134128.000	1.149	NA	NA	NA	5.00	534070.000	1.076
Chrysene	1.00	126737.000	1.077	10.0	982165.000	0.9804	5.00	522091.000	1.042
Dibenz[ah]anthracene	1.00	143463.000	1.229	10.0	1110031.00	1.076	5.00	564783.000	1.138
Fluorene	1.00	77052.0000	1.295	10.0	635920.000	1.046	5.00	328594.000	1.177
Indeno[1,2,3-cd]pyrene	1.00	171327.000	1.467	10.0	1286114.00	1.247	5.00	662303.000	1.335
Naphthalene	1.00	106827.000	0.9799	10.0	903298.000	0.8134	5.00	452741.000	0.9111
Phenanthrene	1.00	111864.000	1.026	10.0	949851.000	0.8368	5.00	492730.000	0.9579
Pyrene	1.00	150689.000	1.281	10.0	1132706.00	1.131	5.00	603662.000	1.205

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8270C

Instrument ID: HPMS7
Initial Calibration Date: 11-FEB-11 16:13
Column ID: F

Analyte	WG356259-05			WG356259-06			WG356259-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Acenaphthene	2.50	152216.000	1.044	0.500	32328.0000	1.086	0.100	6630.00000	1.044
Benzo[a]pyrene	2.50	309284.000	1.138	0.500	60683.0000	1.127	0.100	11949.0000	1.088
Fluoranthene	2.50	316449.000	1.139	0.500	64057.0000	1.203	0.100	12309.0000	1.134
1-Methylnaphthalene	2.50	156164.000	0.5808	0.500	33214.0000	0.6547	0.100	7127.00000	0.6932
2-Methylnaphthalene	2.50	169796.000	0.6315	0.500	32933.0000	0.6492	0.100	6099.00000	0.5932
Acenaphthylene	2.50	282060.000	1.934	0.500	56109.0000	1.884	0.100	11137.0000	1.754
Anthracene	2.50	254605.000	0.9166	0.500	48521.0000	0.9112	0.100	8205.00000	0.7557
Benzo[a]anthracene	2.50	313308.000	1.115	0.500	60009.0000	1.028	0.100	11126.0000	0.9169
Benzo[b]fluoranthene	2.50	311312.000	1.146	0.500	59690.0000	1.109	0.100	10058.0000	0.9155
Benzo[ghi]perylene	2.50	314740.000	1.158	0.500	62767.0000	1.166	0.100	12114.0000	1.103
Benzo[k]fluoranthene	2.50	304693.000	1.121	0.500	69184.0000	1.285	0.100	15098.0000	1.374
Chrysene	2.50	299180.000	1.064	0.500	64204.0000	1.100	0.100	13806.0000	1.138
Dibenz[ah]anthracene	2.50	313845.000	1.155	0.500	61722.0000	1.146	0.100	11636.0000	1.059
Fluorene	2.50	184973.000	1.268	0.500	37294.0000	1.252	0.100	7243.00000	1.141
Indeno[1,2,3-cd]pyrene	2.50	371347.000	1.367	0.500	75204.0000	1.397	0.100	14457.0000	1.316
Naphthalene	2.50	251518.000	0.9354	0.500	50003.0000	0.9856	0.100	10169.0000	0.9891
Phenanthrene	2.50	275110.000	0.9904	0.500	53542.0000	1.006	0.100	10740.0000	0.9891
Pyrene	2.50	346946.000	1.234	0.500	74501.0000	1.277	0.100	15222.0000	1.255

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447 **Instrument ID:** HPMS7

Analytical Method: 8270C **Initial Calibration Date:** 11-FEB-11 16:13

Column ID: F

Analyte	WG356259-08		
	CONC	RESP	RF
Acenaphthene	0.0500	3618.00000	1.102
Benzo[a]pyrene	0.0500	5233.00000	0.9276
Fluoranthene	0.0500	6276.00000	1.126
1-Methylnaphthalene	0.0500	3660.00000	0.6929
2-Methylnaphthalene	0.0500	3050.00000	0.5774
Acenaphthylene	0.0500	5815.00000	1.772
Anthracene	0.0500	3995.00000	0.7165
Benzo[a]anthracene	0.0500	5968.00000	0.9500
Benzo[b]fluoranthene	0.0500	4649.00000	0.8241
Benzo[ghi]perylene	0.0500	6096.00000	1.081
Benzo[k]fluoranthene	0.0500	8066.00000	1.430
Chrysene	0.0500	7172.00000	1.142
Dibenz[ah]anthracene	0.0500	5847.00000	1.036
Fluorene	0.0500	3665.00000	1.117
Indeno[1,2,3-cd]pyrene	0.0500	7073.00000	1.254
Naphthalene	0.0500	5272.00000	0.9981
Phenanthrene	0.0500	5548.00000	0.9951
Pyrene	0.0500	8048.00000	1.281

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447 **Instrument ID:** HPMS15

Analytical Method: 8270C **Initial Calibration Date:** 15-FEB-11 12:28

Column ID: F

Analyte	WG356529-02			WG356529-03			WG356529-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Acenaphthene	1.00	55901.0000	1.162	10.0	515990.000	1.081	5.00	252303.000	1.174
Benzo[a]pyrene	1.00	95643.0000	1.115	10.0	831739.000	1.052	5.00	408968.000	1.114
Fluoranthene	1.00	103341.000	1.219	10.0	869452.000	1.061	5.00	444739.000	1.192
1-Methylnaphthalene	1.00	59184.0000	0.6693	10.0	533197.000	0.6207	5.00	260773.000	0.6816
2-Methylnaphthalene	1.00	60084.0000	0.6795	10.0	556360.000	0.6477	5.00	269638.000	0.7048
Acenaphthylene	1.00	89545.0000	1.861	10.0	805577.000	1.687	5.00	402547.000	1.873
Anthracene	1.00	91598.0000	1.080	10.0	799456.000	0.9755	5.00	407287.000	1.092
Benzo[a]anthracene	1.00	99178.0000	1.061	10.0	823674.000	0.9106	5.00	416510.000	0.9959
Benzo[b]fluoranthene	1.00	104367.000	1.217	10.0	868681.000	1.099	5.00	425074.000	1.158
Benzo[ghi]perylene	1.00	94509.0000	1.102	10.0	839944.000	1.063	5.00	403279.000	1.098
Benzo[k]fluoranthene	1.00	96028.0000	1.120	10.0	760576.000	0.9622	5.00	391713.000	1.067
Chrysene	1.00	97835.0000	1.046	10.0	782700.000	0.8653	5.00	404263.000	0.9666
Dibenz[ah]anthracene	1.00	92293.0000	1.076	10.0	829407.000	1.049	5.00	398702.000	1.086
Fluorene	1.00	67555.0000	1.404	10.0	622508.000	1.304	5.00	309109.000	1.438
Indeno[1,2,3-cd]pyrene	1.00	113930.000	1.328	10.0	1016708.00	1.286	5.00	489686.000	1.334
Naphthalene	1.00	91469.0000	1.035	10.0	778561.000	0.9063	5.00	386454.000	1.010
Phenanthrene	1.00	97820.0000	1.154	10.0	829719.000	1.013	5.00	421873.000	1.131
Pyrene	1.00	110884.000	1.186	10.0	915378.000	1.012	5.00	470868.000	1.126

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447 **Instrument ID:** HPMS15

Analytical Method: 8270C **Initial Calibration Date:** 15-FEB-11 12:28

Column ID: F

Analyte	WG356529-05			WG356529-06			WG356529-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Acenaphthene	2.50	133157.000	1.172	0.500	24450.0000	1.185	0.100	4875.00000	1.157
Benzo[a]pyrene	2.50	217848.000	1.114	0.500	38493.0000	1.085	0.100	7293.00000	1.023
Fluoranthene	2.50	241657.000	1.217	0.500	43841.0000	1.195	0.100	8432.00000	1.140
1-Methylnaphthalene	2.50	136971.000	0.6884	0.500	25808.0000	0.7014	0.100	5687.00000	0.7517
2-Methylnaphthalene	2.50	140078.000	0.7041	0.500	25540.0000	0.6941	0.100	5119.00000	0.6766
Acenaphthylene	2.50	213321.000	1.878	0.500	37377.0000	1.811	0.100	7272.00000	1.726
Anthracene	2.50	218887.000	1.102	0.500	38480.0000	1.049	0.100	6950.00000	0.9394
Benzo[a]anthracene	2.50	226217.000	1.019	0.500	40826.0000	1.037	0.100	7870.00000	1.000
Benzo[b]fluoranthene	2.50	227373.000	1.163	0.500	42517.0000	1.199	0.100	7646.00000	1.073
Benzo[ghi]perylene	2.50	214196.000	1.096	0.500	38834.0000	1.095	0.100	7677.00000	1.077
Benzo[k]fluoranthene	2.50	212133.000	1.085	0.500	37128.0000	1.047	0.100	8027.00000	1.126
Chrysene	2.50	220901.000	0.9952	0.500	40923.0000	1.039	0.100	8262.00000	1.050
Dibenz[ah]anthracene	2.50	211035.000	1.079	0.500	37737.0000	1.064	0.100	7258.00000	1.018
Fluorene	2.50	163374.000	1.438	0.500	29439.0000	1.427	0.100	5743.00000	1.363
Indeno[1,2,3-cd]pyrene	2.50	259827.000	1.329	0.500	46403.0000	1.308	0.100	8948.00000	1.256
Naphthalene	2.50	204347.000	1.027	0.500	38428.0000	1.044	0.100	7874.00000	1.041
Phenanthrene	2.50	229277.000	1.155	0.500	42051.0000	1.146	0.100	8355.00000	1.129
Pyrene	2.50	257557.000	1.160	0.500	47177.0000	1.198	0.100	9317.00000	1.184

INT_CAL - Modified 03/06/2008
PDF File ID: 1928598
Report generated 02/24/2011 13:13

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447 **Instrument ID:** HPMS15

Analytical Method: 8270C **Initial Calibration Date:** 15-FEB-11 12:28

Column ID: F

Analyte	WG356529-08		
	CONC	RESP	RF
Acenaphthene	0.0500	2622.00000	1.164
Benzo[a]pyrene	0.0500	3937.00000	1.022
Fluoranthene	0.0500	4571.00000	1.142
1-Methylnaphthalene	0.0500	2674.00000	0.6608
2-Methylnaphthalene	0.0500	2735.00000	0.6759
Acenaphthylene	0.0500	3968.00000	1.762
Anthracene	0.0500	3597.00000	0.8989
Benzo[a]anthracene	0.0500	4384.00000	1.015
Benzo[b]fluoranthene	0.0500	4309.00000	1.118
Benzo[ghi]perylene	0.0500	4181.00000	1.085
Benzo[k]fluoranthene	0.0500	4148.00000	1.077
Chrysene	0.0500	4601.00000	1.065
Dibenz[ah]anthracene	0.0500	4005.00000	1.039
Fluorene	0.0500	3035.00000	1.348
Indeno[1,2,3-cd]pyrene	0.0500	4912.00000	1.275
Naphthalene	0.0500	4265.00000	1.054
Phenanthrene	0.0500	4549.00000	1.137
Pyrene	0.0500	5174.00000	1.198

INT_CAL - Modified 03/06/2008
PDF File ID: 1928598
Report generated 02/24/2011 13:13

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11020447 Run Date: 02/11/2011 Sample ID: WG356259-09
Instrument ID: HPMS7 Run Time: 16:41 Method: 8270C
File ID: 7M50424 Analyst: CAA QC Key: DOD4
ICal Workgroup: WG356259 Cal ID: HPMS7 - 11-FEB-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Acenaphthene	CCC	1000	966	ug/L	0.992	3.40	30	
Fluoranthene	CCC	1000	953	ug/L	1.07	4.70	30	
Benzo[a]pyrene	CCC	1000	970	ug/L	1.06	3.00	30	
Naphthalene		1000	960	ug/L	0.907	4.00	30	
Acenaphthylene		1000	962	ug/L	1.74	3.80	30	
Fluorene		1000	957	ug/L	1.13	4.30	30	
Phenanthrene		1000	937	ug/L	0.911	6.30	30	
Anthracene		1000	1030	ug/L	0.872	3.10	30	
Pyrene		1000	907	ug/L	1.12	9.30	30	
Benzo[a]anthracene		1000	850	ug/L	0.895	15.0	30	
Chrysene		1000	929	ug/L	1.00	7.10	30	
Benzo[b]fluoranthene		1000	942	ug/L	0.995	5.80	30	
Benzo[k]fluoranthene		1000	895	ug/L	1.11	10.5	30	
Indeno[1,2,3-cd]pyrene		1000	911	ug/L	1.22	8.90	30	
Dibenz[ah]anthracene		1000	893	ug/L	1.00	10.7	30	
Benzo[ghi]perylene		1000	928	ug/L	1.06	7.20	30	
1-Methylnaphthalene		1000	901	ug/L	0.552	9.90	30	
2-Methylnaphthalene		1000	958	ug/L	0.583	4.20	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11020447 Run Date: 02/15/2011 Sample ID: WG356529-09
Instrument ID: HPMS15 Run Time: 12:56 Method: 8270C
File ID: 15M03942 Analyst: CAA QC Key: DOD4
ICal Workgroup: WG356529 Cal ID: HPMS15 - 15-FEB-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Acenaphthene	CCC	1000	946	ug/L	1.09	5.40	30	
Fluoranthene	CCC	1000	934	ug/L	1.09	6.60	30	
Benzo[a]pyrene	CCC	1000	954	ug/L	1.03	4.60	30	
Naphthalene		1000	956	ug/L	0.972	4.40	30	
Acenaphthylene		1000	912	ug/L	1.64	8.80	30	
Fluorene		1000	928	ug/L	1.29	7.20	30	
Phenanthrene		1000	935	ug/L	1.05	6.50	30	
Anthracene		1000	1010	ug/L	1.03	0.700	30	
Pyrene		1000	922	ug/L	1.06	7.80	30	
Benzo[a]anthracene		1000	888	ug/L	0.893	11.2	30	
Chrysene		1000	945	ug/L	0.949	5.50	30	
Benzo[b]fluoranthene		1000	869	ug/L	0.997	13.1	30	
Benzo[k]fluoranthene		1000	942	ug/L	1.01	5.80	30	
Indeno[1,2,3-cd]pyrene		1000	894	ug/L	1.16	10.6	30	
Dibenz[ah]anthracene		1000	886	ug/L	0.938	11.5	30	
Benzo[ghi]perylene		1000	929	ug/L	1.01	7.10	30	
1-Methylnaphthalene		1000	902	ug/L	0.615	9.80	30	
2-Methylnaphthalene		1000	936	ug/L	0.639	6.40	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357051-02

Instrument ID: HPMS7 Run Time: 10:14 Method: 8270C

File ID: 7M50502 Analyst: CAA QC Key: DOD4

Workgroup (AAB#): WG357050 Cal ID: HPMS7 - 11-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Acenaphthene	CCC	1000	974	ug/L	1.00	2.60	20	
Fluoranthene	CCC	1000	1080	ug/L	1.21	7.73	20	
Benzo[a]pyrene	CCC	1000	1050	ug/L	1.14	4.67	20	
Naphthalene		1000	1030	ug/L	0.972	2.89	20	
Acenaphthylene		1000	868	ug/L	1.57	13.2	20	
Fluorene		1000	987	ug/L	1.17	1.26	20	
Phenanthrene		1000	1060	ug/L	1.03	5.87	20	
Anthracene		1000	1050	ug/L	0.887	4.95	20	
Pyrene		1000	1070	ug/L	1.32	6.55	20	
Benzo[a]anthracene		1000	1050	ug/L	1.11	5.02	20	
Chrysene		1000	987	ug/L	1.06	1.28	20	
Benzo[b]fluoranthene		1000	1160	ug/L	1.22	15.6	20	
Benzo[k]fluoranthene		1000	929	ug/L	1.15	7.11	20	
Indeno[1,2,3-cd]pyrene		1000	1040	ug/L	1.40	4.22	20	
Dibenz[ah]anthracene		1000	1030	ug/L	1.15	2.59	20	
Benzo[ghi]perylene		1000	1020	ug/L	1.16	1.68	20	
1-Methylnaphthalene		1000	1060	ug/L	0.651	6.27	20	
2-Methylnaphthalene		1000	1090	ug/L	0.665	9.22	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1928601
Report generated 02/24/2011 13:14

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357220-02

Instrument ID: HPMS15 Run Time: 11:38 Method: 8270C

File ID: 15M03983 Analyst: CAA QC Key: DOD4

Workgroup (AAB#): WG357222 Cal ID: HPMS15 - 15-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Acenaphthene	CCC	1000	1030	ug/L	1.19	2.74	20	
Fluoranthene	CCC	1000	1070	ug/L	1.25	6.85	20	
Benzo[a]pyrene	CCC	1000	1040	ug/L	1.12	4.36	20	
Naphthalene		1000	1030	ug/L	1.05	3.19	20	
Acenaphthylene		1000	1080	ug/L	1.94	7.94	20	
Fluorene		1000	1030	ug/L	1.44	3.38	20	
Phenanthrene		1000	1040	ug/L	1.17	4.13	20	
Anthracene		1000	1100	ug/L	1.12	9.54	20	
Pyrene		1000	1070	ug/L	1.23	7.15	20	
Benzo[a]anthracene		1000	1070	ug/L	1.07	6.63	20	
Chrysene		1000	1020	ug/L	1.03	2.15	20	
Benzo[b]fluoranthene		1000	988	ug/L	1.13	1.16	20	
Benzo[k]fluoranthene		1000	1030	ug/L	1.11	3.43	20	
Indeno[1,2,3-cd]pyrene		1000	1020	ug/L	1.33	1.88	20	
Dibenz[ah]anthracene		1000	1010	ug/L	1.07	1.22	20	
Benzo[ghi]perylene		1000	1020	ug/L	1.10	1.54	20	
1-Methylnaphthalene		1000	998	ug/L	0.680	0.240	20	
2-Methylnaphthalene		1000	1020	ug/L	0.696	1.79	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1928601
Report generated 02/24/2011 13:14

Microbac Laboratories Inc.
INTERNAL STANDARD AREA SUMMARY

Login Number: L11020447
Instrument ID: HPMS7
Workgroup (AAB#): WG357050

ICAL CCV Number: WG356259-02
CAL ID: HPMS7-11-FEB-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG356259-02	NA	NA	59479	117681	109023	116769	109027
Upper Limit	NA	NA	118958	235362	218046	233538	218054
Lower Limit	NA	NA	29740	58841	54512	58385	54514
L11020447-01	1.00	01	64456	116886	98598	107724	103474
L11020447-02	1.00	01	65611	116008	101394	106390	105700
L11020447-03	1.00	01	67257	118390	107050	109009	106702
L11020447-04	1.00	01	62438	111767	101440	101778	100268
L11020447-06	1.00	01	62353	112822	94647	103965	100346
L11020447-07	1.00	01	62828	115925	96067	106753	100908
WG356898-02	1.00	01	63477	116650	92580	109921	101832
WG356898-03	1.00	01	64016	115043	100520	107799	105425

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1928602
Report generated 02/24/2011 13:15

Microbac Laboratories Inc.
INTERNAL STANDARD AREA SUMMARY

Login Number: L11020447
Instrument ID: HPMS15
Workgroup (AAB#): WG357222

ICAL CCV Number: WG356529-02
CAL ID: HPMS15-15-FEB-11
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG356529-02	NA	NA	48126	93522	88421	85766	84788
Upper Limit	NA	NA	96252	187044	176842	171532	169576
Lower Limit	NA	NA	24063	46761	44211	42883	42394
L11020447-05	1.00	01	47288	87538	86826	79484	83101
WG357148-01	1.00	01	43369	81006	81094	74410	77323
WG357148-02	1.00	01	43847	81906	80327	74803	77630
WG357148-03	1.00	01	48648	90835	89115	82230	85740

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1928602
Report generated 02/24/2011 13:15

Microbac Laboratories Inc.
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11020447
Instrument ID: HPMS7
Workgroup (AAB#): WG357050

ICAL CCV Number: WG356259-02
CAL ID: HPMS7-11-FEB-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG356259-02	NA	NA	7.94	13.16	5.76	15.21	9.8
Upper Limit	NA	NA	8.44	13.66	6.26	15.71	10.3
Lower Limit	NA	NA	7.44	12.66	5.26	14.71	9.3
L11020447-01	1.00	01	7.86	13.08	5.7	15.08	9.72
L11020447-02	1.00	01	7.87	13.08	5.7	15.08	9.72
L11020447-03	1.00	01	7.87	13.08	5.7	15.08	9.72
L11020447-04	1.00	01	7.86	13.08	5.69	15.08	9.72
L11020447-06	1.00	01	7.86	13.09	5.7	15.08	9.72
L11020447-07	1.00	01	7.86	13.08	5.7	15.08	9.72
WG356898-02	1.00	01	7.86	13.09	5.7	15.08	9.72
WG356898-03	1.00	01	7.86	13.08	5.7	15.09	9.72

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1928603
Report generated: 02/24/2011 13:15

Microbac Laboratories Inc.
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L11020447
Instrument ID: HPMS15
Workgroup (AAB#): WG357222

ICAL CCV Number: WG356529-02
CAL ID: HPMS15-15-FEB-11
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG356529-02	NA	NA	8.14	13.35	5.95	15.49	9.99
Upper Limit	NA	NA	8.64	13.85	6.45	15.99	10.49
Lower Limit	NA	NA	7.64	12.85	5.45	14.99	9.49
L11020447-05	1.00	01	8.125	13.338	5.943	15.474	9.982
WG357148-01	1.00	01	8.125	13.338	5.943	15.474	9.982
WG357148-02	1.00	01	8.125	13.338	5.943	15.474	9.982
WG357148-03	1.00	01	8.125	13.338	5.943	15.474	9.982

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1928603
Report generated: 02/24/2011 13:15

2.1.1.3 Sample Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50507.D Vial: 7
Acq On : 21 Feb 2011 12:30 pm Operator: CAA
Sample : L11020447-01 REF Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 06:52:22 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

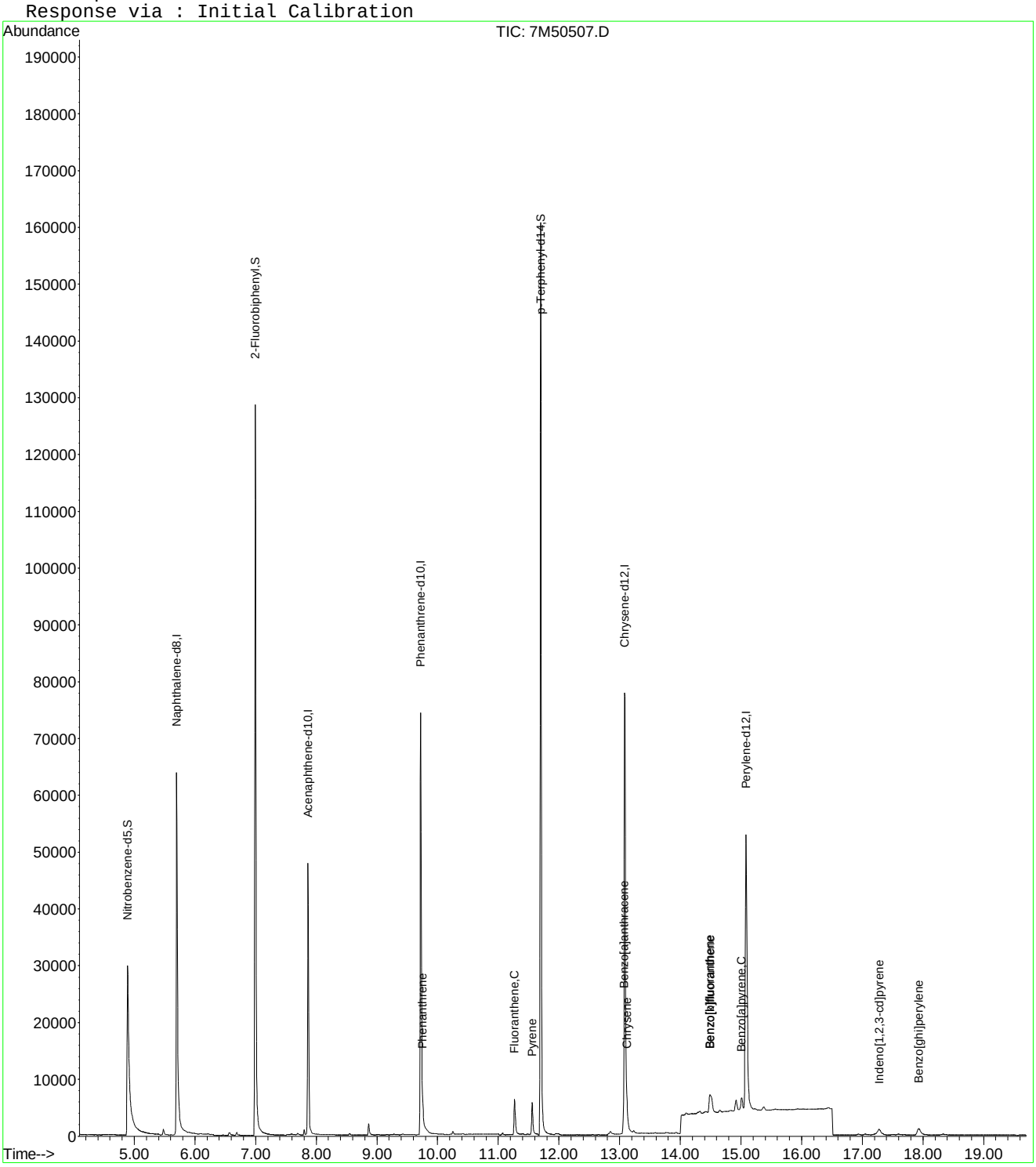
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.70	136	98598	1.00	ug/ml	0.01
6) Acenaphthene-d10	7.86	164	64456	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.72	188	103474	1.00	ug/ml	0.01
15) Chrysene-d12	13.08	240	116886	1.00	ug/ml	0.00
20) Perylene-d12	15.08	264	107724	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.89	82	53431	1.9208	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 76.80%			
7) 2-Fluorobiphenyl	6.99	172	122351	1.6560	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 66.40%			
17) p-Terphenyl-d14	11.70	244	183940	2.3243	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 92.80%			
Target Compounds						Qvalue
12) Phenanthrene	9.76	178	3402	0.0338	ug/ml	100
14) Fluoranthene	11.27	202	8504	0.0734	ug/ml	99
16) Pyrene	11.56	202	8984	0.0621	ug/ml	95
18) Benzo[a]anthracene	13.06	228	3660	0.0297	ug/ml	92
19) Chrysene	13.12	228	5009	0.0398	ug/ml	91
21) Benzo[b]fluoranthene	14.49	252	4559m	0.0401	ug/ml	
22) Benzo[k]fluoranthene	14.50	252	4614m	0.0346	ug/ml	
23) Benzo[a]pyrene	15.01	252	3954	0.0337	ug/ml#	60
24) Indeno[1,2,3-cd]pyrene	17.27	276	3641	0.0252	ug/ml	100
26) Benzo[ghi]perylene	17.93	276	3958	0.0322	ug/ml	98

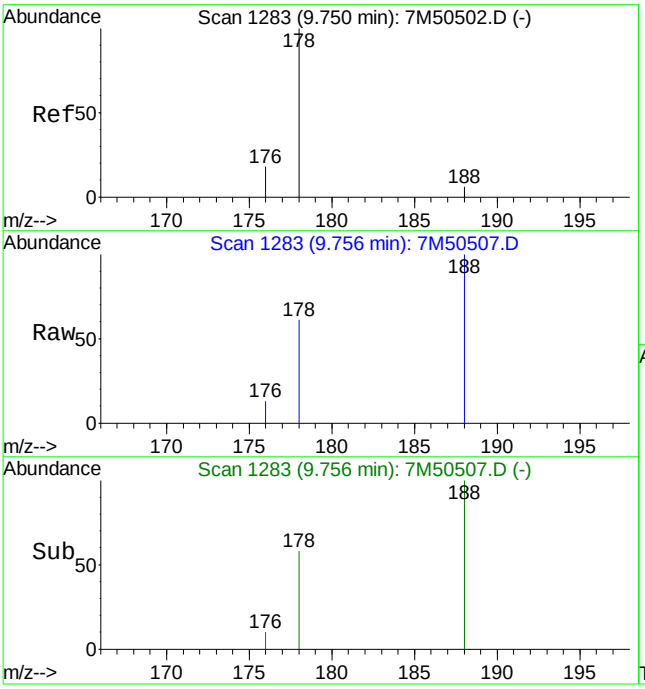
(#) = qualifier out of range (m) = manual integration
7M50507.D SIMPAHL.M Tue Feb 22 07:07:27 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50507.D Vial: 7
Acq On : 21 Feb 2011 12:30 pm Operator: CAA
Sample : L11020447-01 REF Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:54 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration

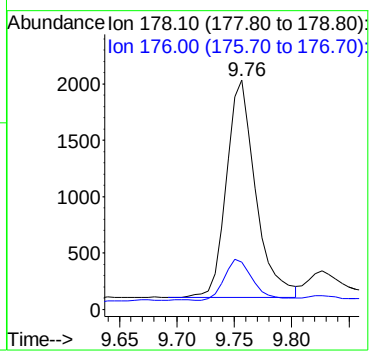


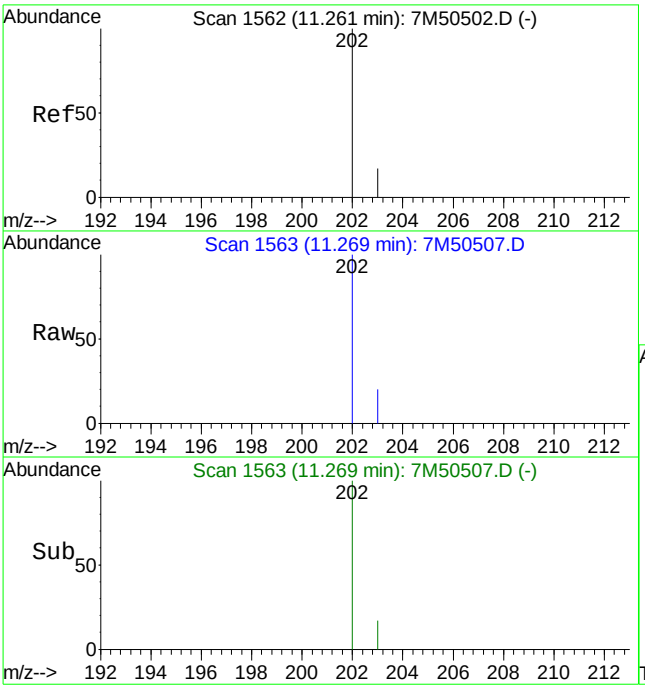


#12
Phenanthrene
Concen: 0.03 ug/ml
RT: 9.76 min Scan# 1283
Delta R.T. 0.02 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:178 Resp: 3402

Ion	Ratio	Lower	Upper
178	100		
176	18.6	11.3	26.3

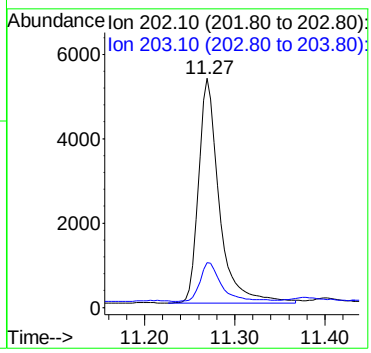


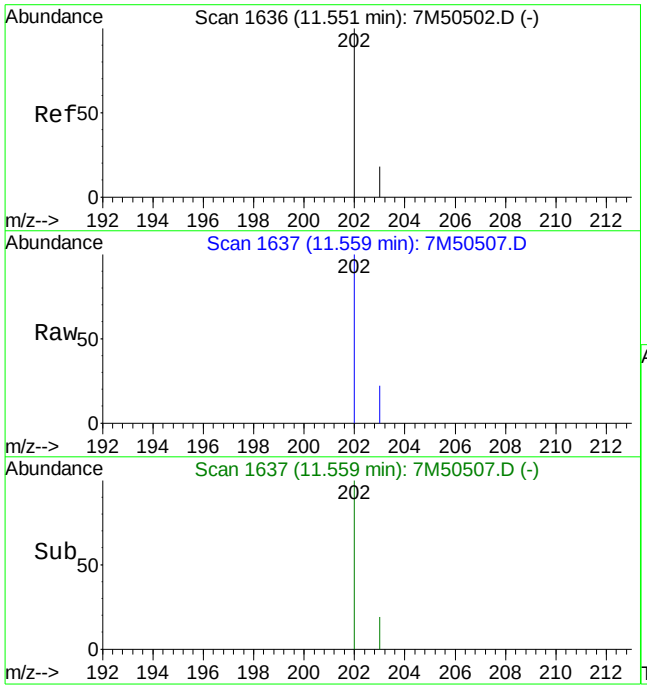


#14
Fluoranthene
Concen: 0.07 ug/ml
RT: 11.27 min Scan# 1563
Delta R.T. 0.03 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:202 Resp: 8504

Ion	Ratio	Lower	Upper
202	100		
203	17.8	10.4	24.2

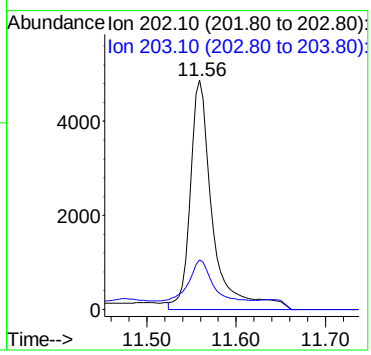


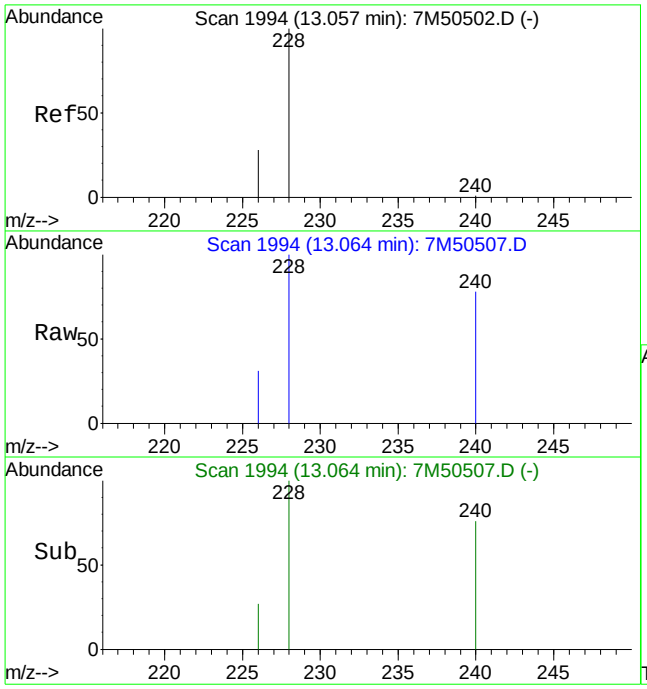


#16
Pyrene
Concen: 0.06 ug/ml
RT: 11.56 min Scan# 1637
Delta R.T. 0.01 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:202 Resp: 8984

Ion	Ratio	Lower	Upper
202	100		
203	15.9	11.0	25.6

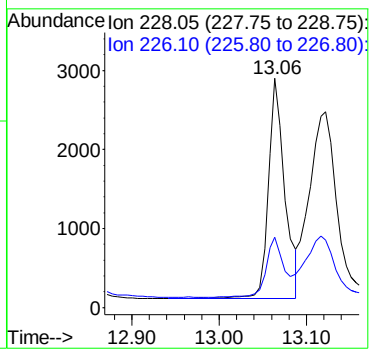


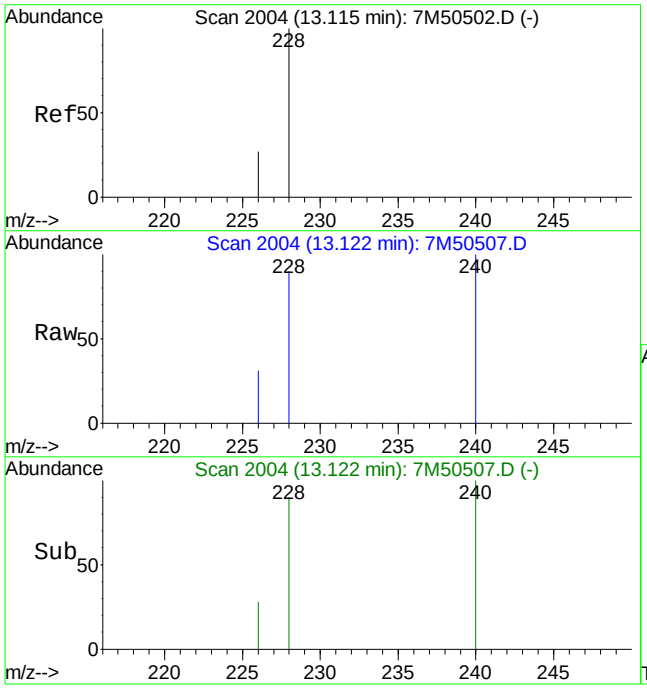


#18
Benzo[a]anthracene
Concen: 0.03 ug/ml
RT: 13.06 min Scan# 1994
Delta R.T. 0.01 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:228 Resp: 3660

Ion	Ratio	Lower	Upper
228	100		
226	29.3	15.2	35.4

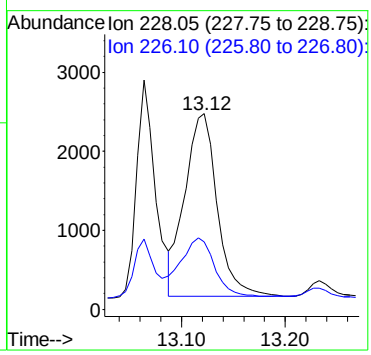


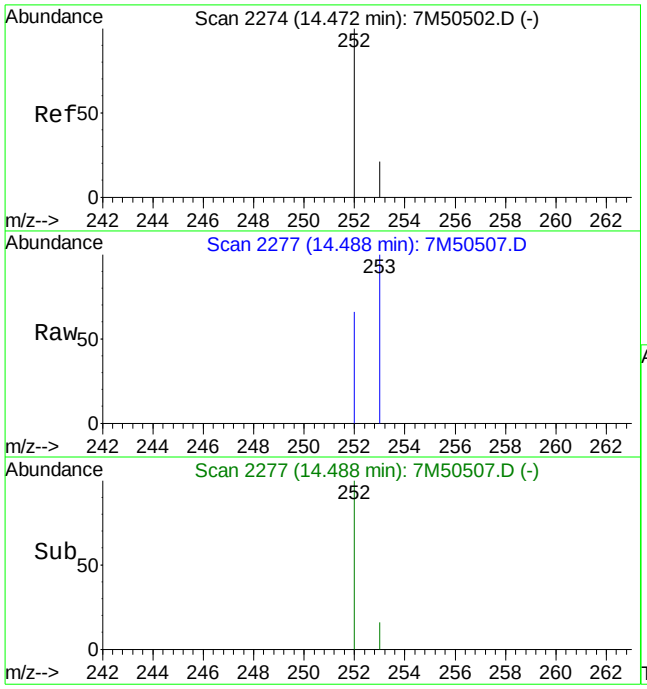


#19
Chrysene
Concen: 0.04 ug/ml
RT: 13.12 min Scan# 2004
Delta R.T. 0.01 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:228 Resp: 5009

Ion	Ratio	Lower	Upper
228	100		
226	33.7	17.2	40.2

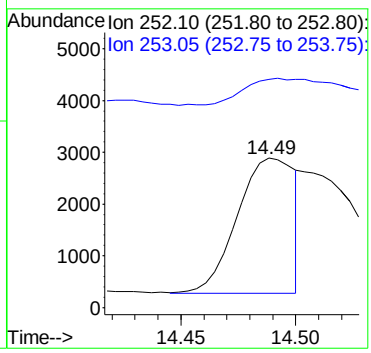


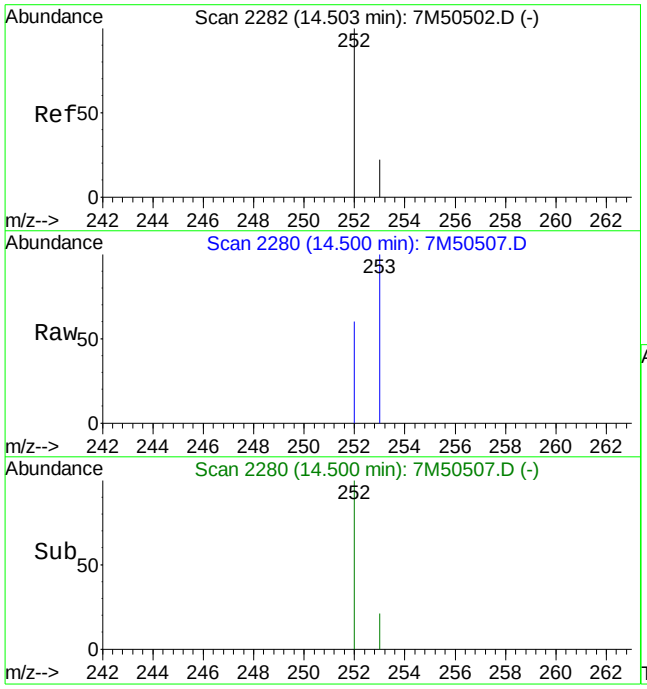


#21
Benzo[b]fluoranthene
Concen: 0.04 ug/ml m
RT: 14.49 min Scan# 2277
Delta R.T. 0.01 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:252 Resp: 4559

Ion	Ratio	Lower	Upper
252	100		
253	44.3	15.4	35.8#

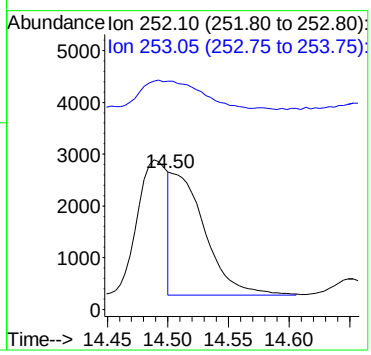


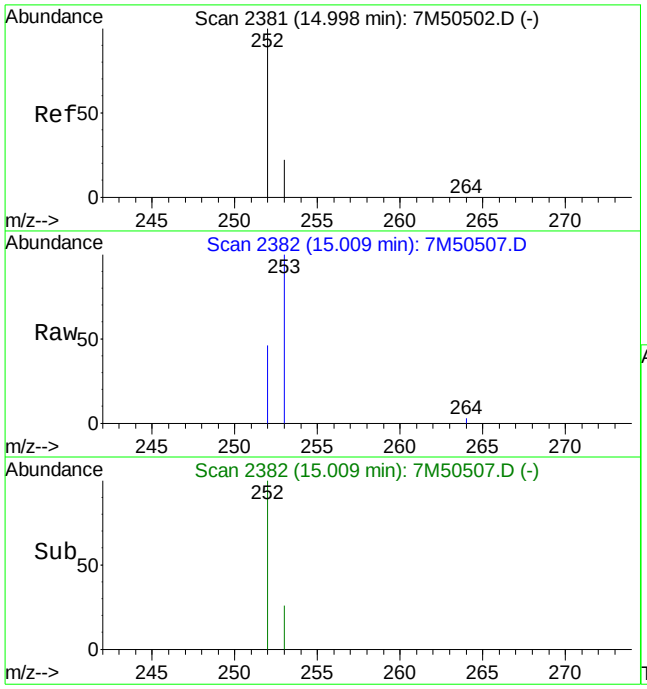


#22
Benzo[k]fluoranthene
Concen: 0.03 ug/ml m
RT: 14.50 min Scan# 2280
Delta R.T. -0.00 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:252 Resp: 4614

Ion	Ratio	Lower	Upper
252	100		
253	42.5	15.6	36.4#

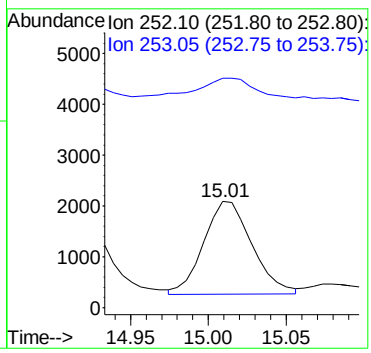


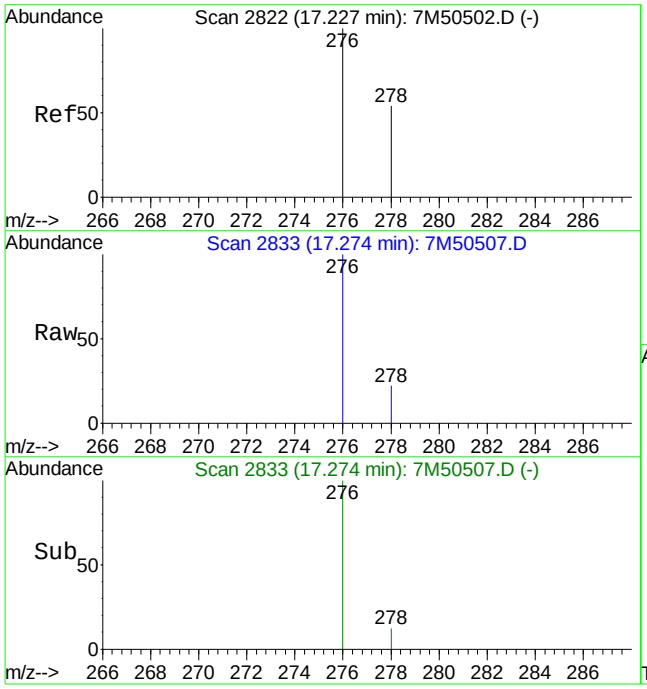


#23
Benzo[a]pyrene
Concen: 0.03 ug/ml
RT: 15.01 min Scan# 2382
Delta R.T. 0.03 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:252 Resp: 3954

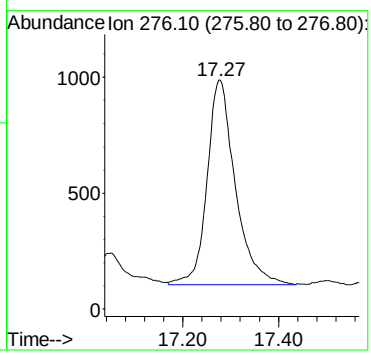
Ion	Ratio	Lower	Upper
252	100		
253	40.5	12.8	30.0#

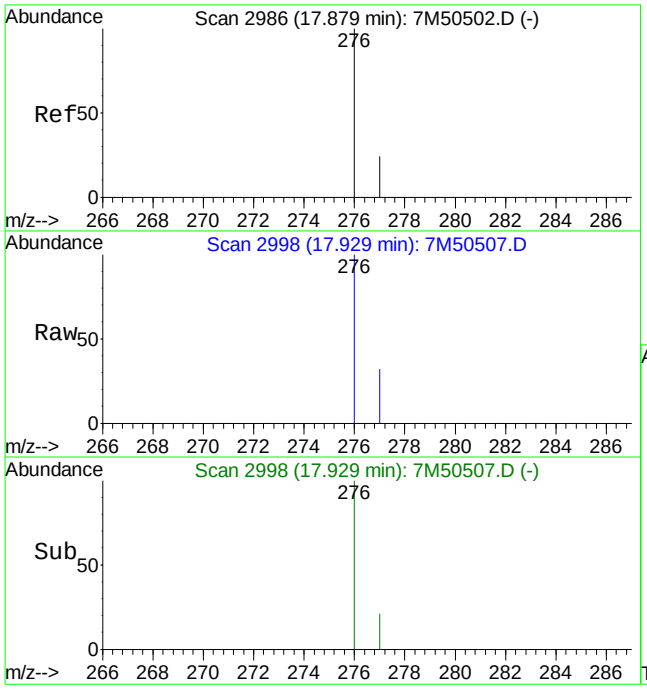




#24
Indeno[1,2,3-cd]pyrene
Concen: 0.03 ug/ml
RT: 17.27 min Scan# 2833
Delta R.T. 0.00 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:276 Resp: 3641

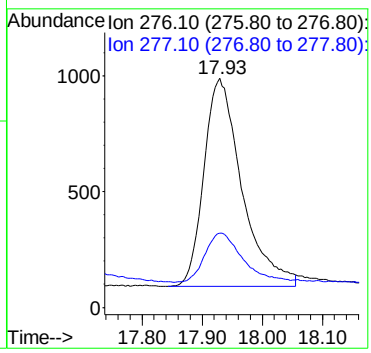




#26
Benzo[ghi]perylene
Concen: 0.03 ug/ml
RT: 17.93 min Scan# 2998
Delta R.T. 0.08 min
Lab File: 7M50507.D
Acq: 21 Feb 2011 12:30 pm

Tgt Ion:276 Resp: 3958

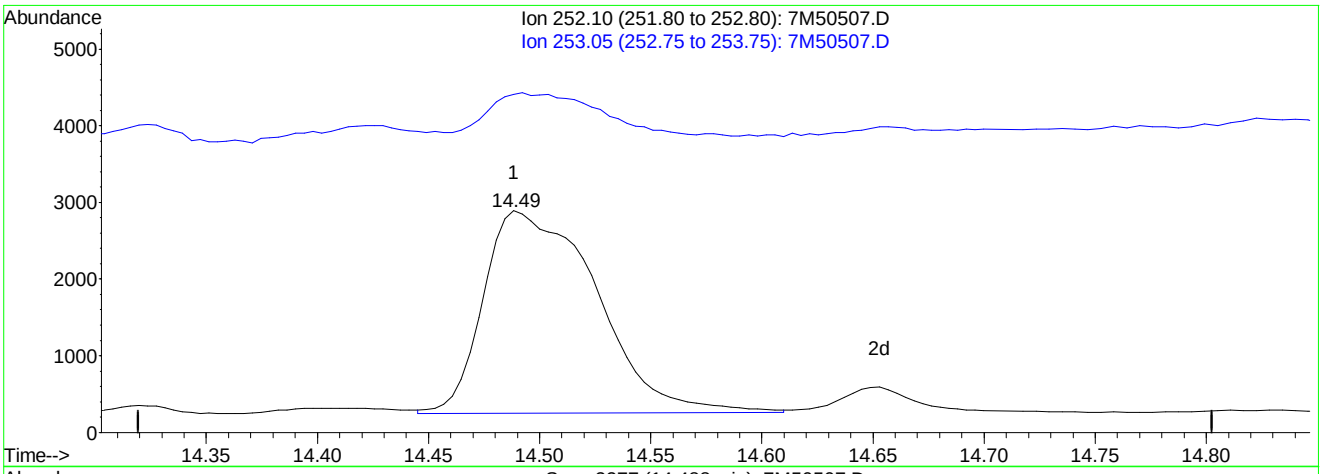
Ion	Ratio	Lower	Upper
276	100		
277	23.5	14.7	34.3

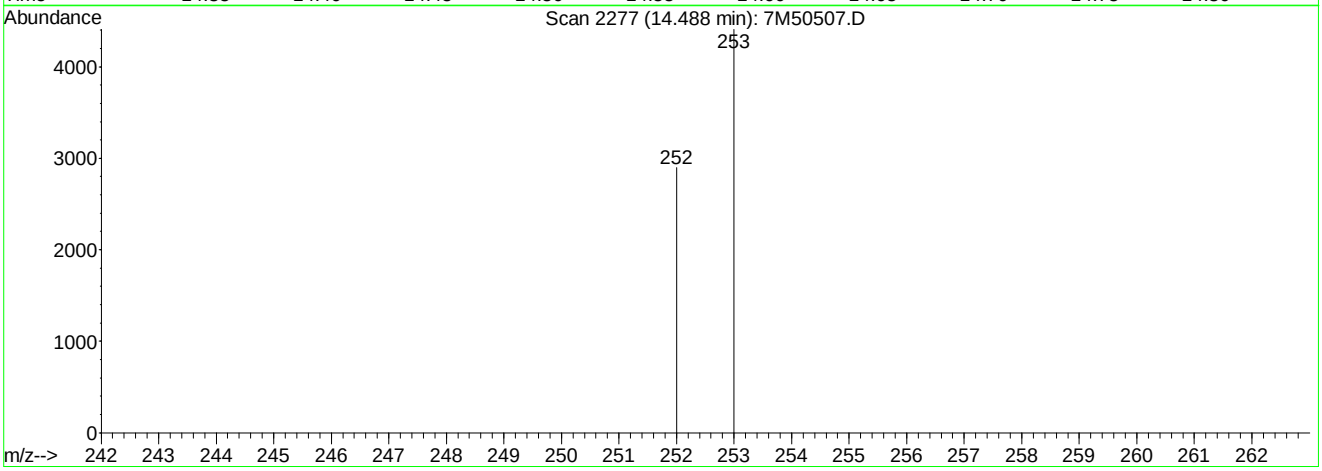


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50507.D Vial: 7
Acq On : 21 Feb 2011 12:30 pm Operator: CAA
Sample : L11020447-01 REF Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:52 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration





TIC: 7M50507.D

(21) Benzo[b]fluoranthene

14.49min 0.08ug/ml

response 9362

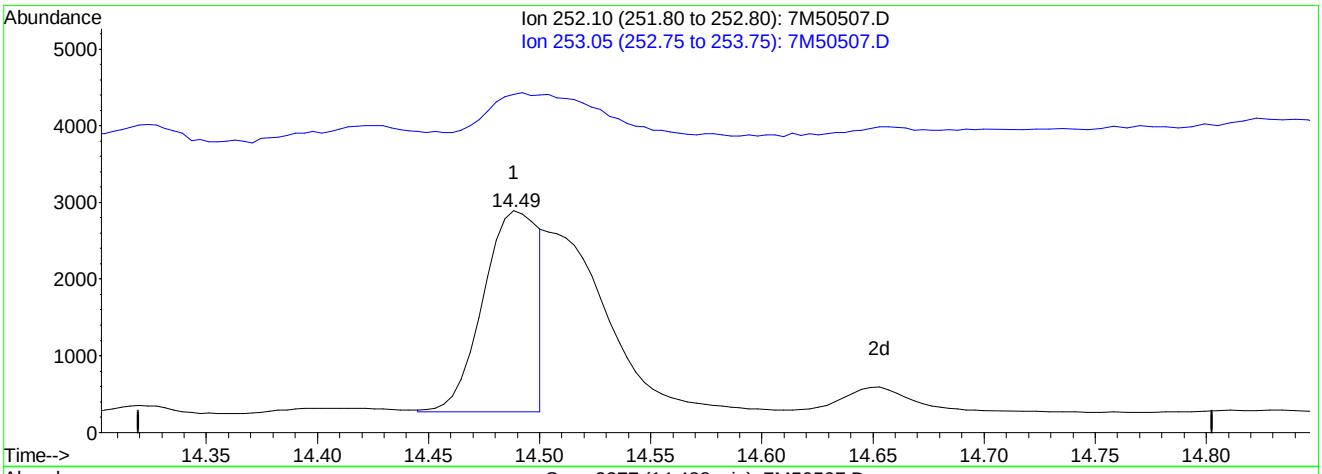
Ion	Exp%	Act%
252.10	100	100
253.05	25.60	21.59
0.00	0.00	0.00
0.00	0.00	0.00

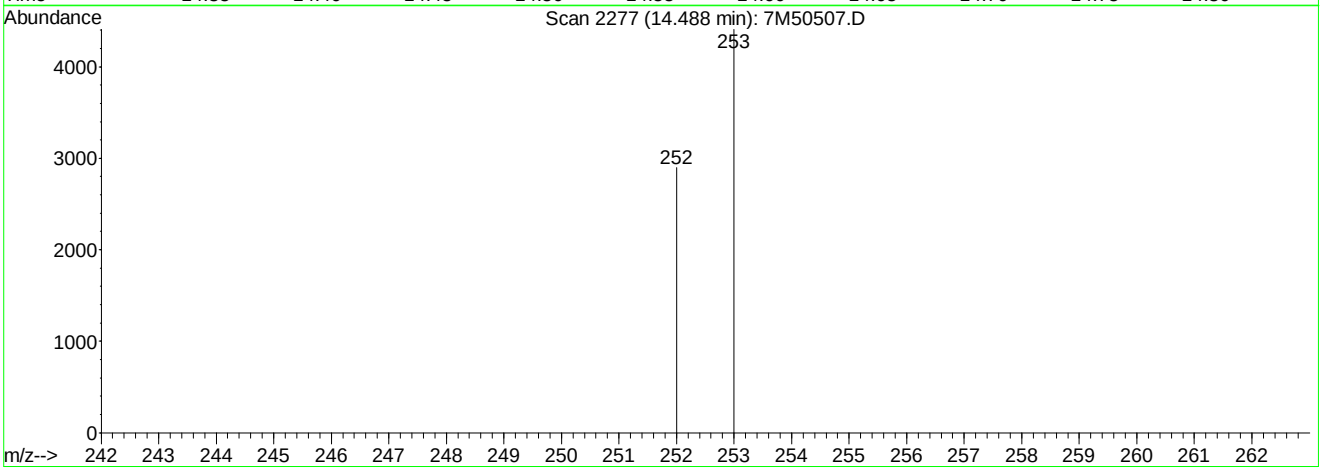
7M50507.D SIMPAHL.M Tue Feb 22 06:54:21 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50507.D Vial: 7
Acq On : 21 Feb 2011 12:30 pm Operator: CAA
Sample : L11020447-01 REF Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:54 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration





TIC: 7M50507.D

(21) Benzo[b]fluoranthene

14.49min 0.04ug/ml mint

response 4559

Ion	Exp%	Act%
252.10	100	100
253.05	25.60	44.33#
0.00	0.00	0.00
0.00	0.00	0.00

7M50507.D SIMPAHL.M Tue Feb 22 06:54:28 2011

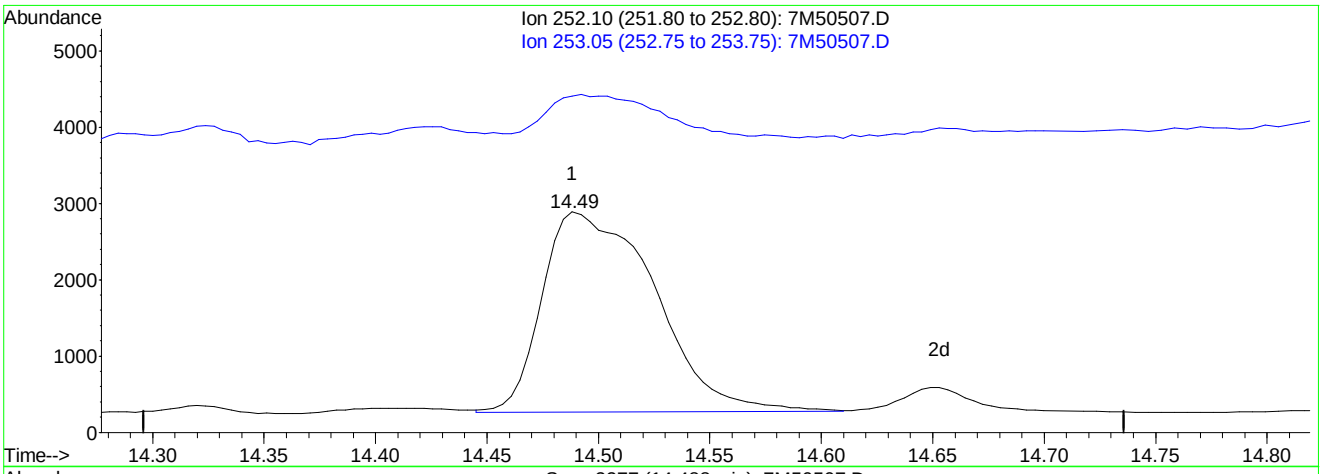
Analyst: 02/22/2011 07:36 Supervisor: 02/22/2011 15:12

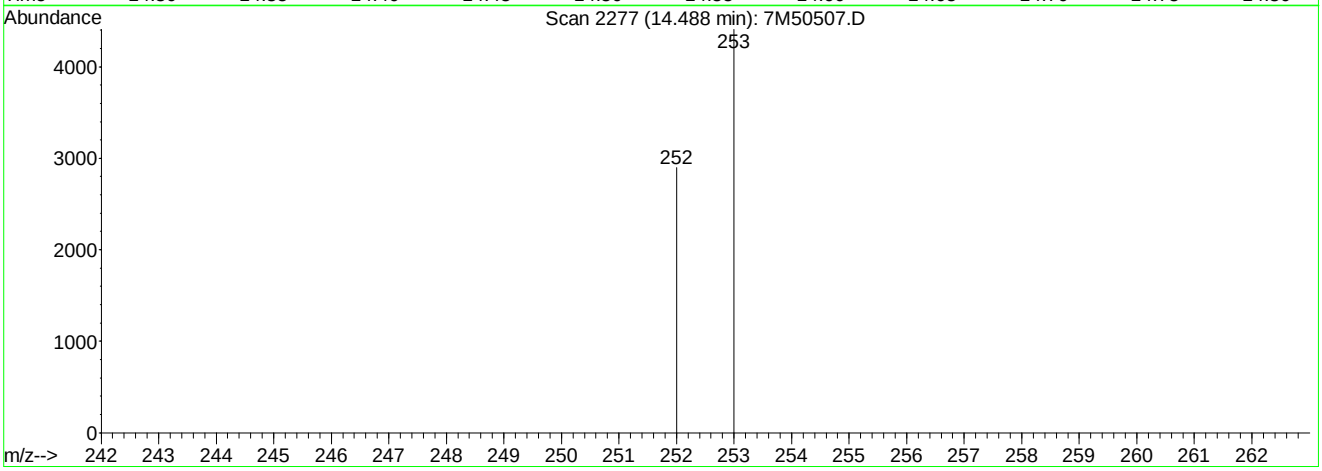
#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50507.D Vial: 7
Acq On : 21 Feb 2011 12:30 pm Operator: CAA
Sample : L11020447-01 REF Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:54 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration





TIC: 7M50507.D

(22) Benzo[k]fluoranthene

14.49min 0.07ug/ml

response 9224

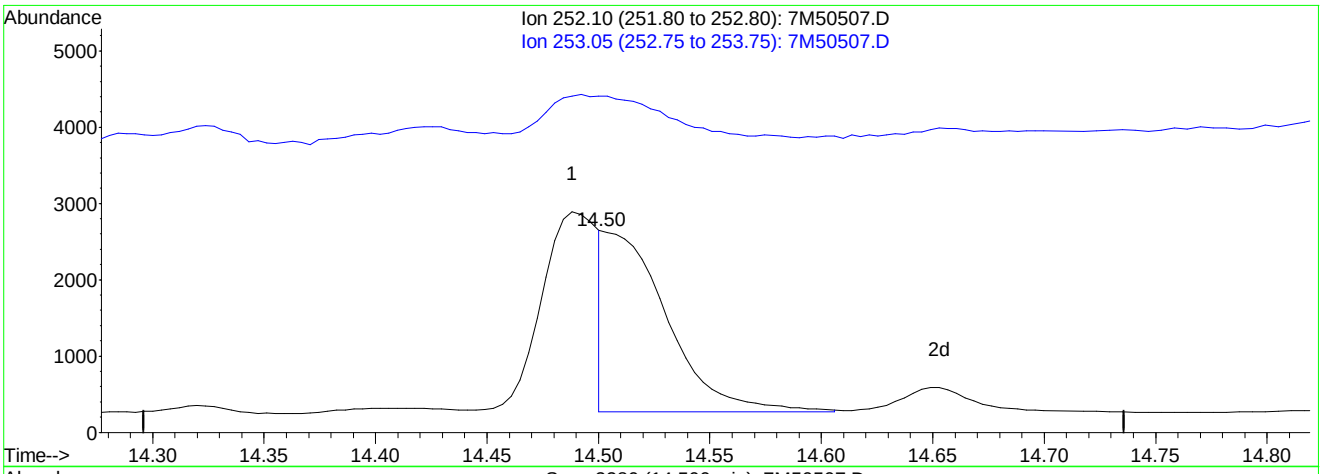
Ion	Exp%	Act%
252.10	100	100
253.05	26.00	21.24
0.00	0.00	0.00
0.00	0.00	0.00

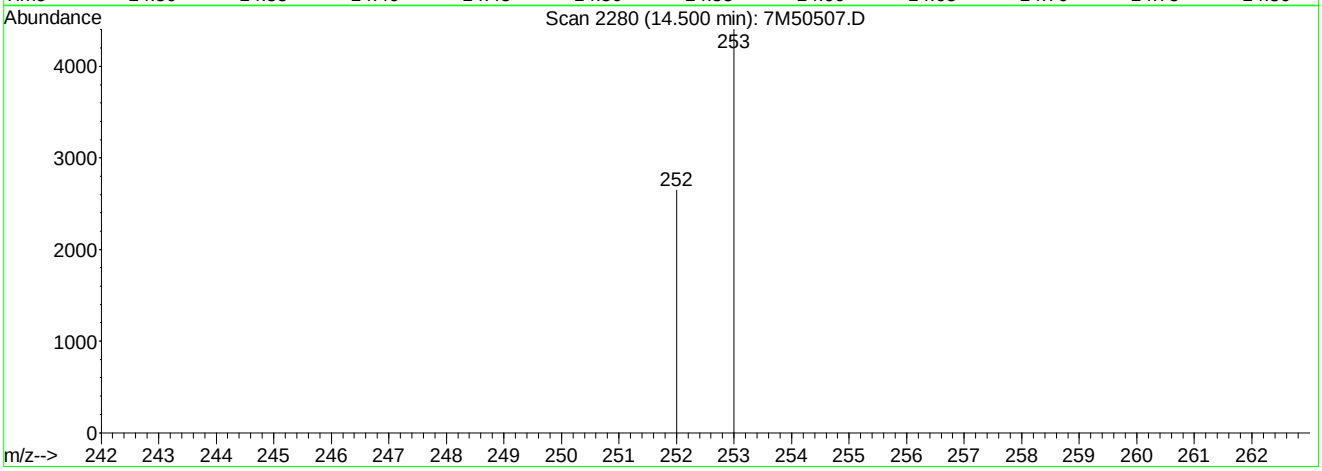
7M50507.D SIMPAHL.M Tue Feb 22 06:54:32 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50507.D Vial: 7
Acq On : 21 Feb 2011 12:30 pm Operator: CAA
Sample : L11020447-01 REF Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:54 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration





TIC: 7M50507.D

(22) Benzo[k]fluoranthene

14.50min 0.03ug/ml mint

response 4614

Ion	Exp%	Act%
252.10	100	100
253.05	26.00	42.46#
0.00	0.00	0.00
0.00	0.00	0.00

7M50507.D SIMPAHL.M Tue Feb 22 06:54:39 2011

Analyst: 02/22/2011 07:36 Supervisor: 02/22/2011 15:12

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50510.D Vial: 10
Acq On : 21 Feb 2011 1:53 pm Operator: CAA
Sample : L11020447-02 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 06:52:24 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

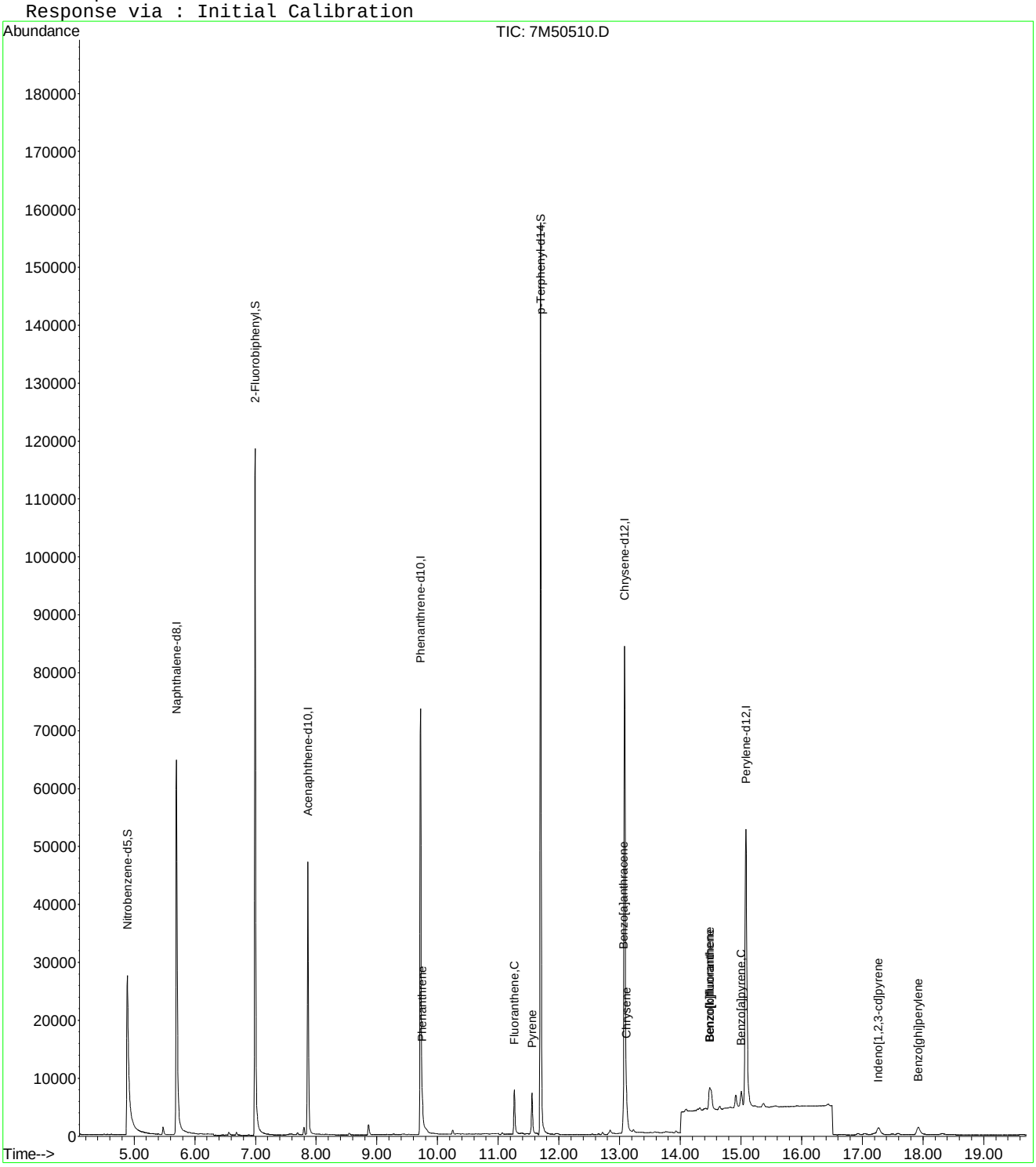
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.70	136	101394	1.00	ug/ml	0.01
6) Acenaphthene-d10	7.87	164	65611	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.72	188	105700	1.00	ug/ml	0.01
15) Chrysene-d12	13.08	240	116008	1.00	ug/ml	0.00
20) Perylene-d12	15.08	264	106390	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.89	82	47678	1.6667	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 66.80%			
7) 2-Fluorobiphenyl	6.99	172	113538	1.5097	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 60.40%			
17) p-Terphenyl-d14	11.70	244	170984	2.1769	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 87.20%			
Target Compounds						Qvalue
12) Phenanthrene	9.75	178	3380	0.0329	ug/ml	99
14) Fluoranthene	11.27	202	10248	0.0866	ug/ml	100
16) Pyrene	11.56	202	10787	0.0751	ug/ml	95
18) Benzo[a]anthracene	13.06	228	4670	0.0382	ug/ml	92
19) Chrysene	13.12	228	5819	0.0465	ug/ml	90
21) Benzo[b]fluoranthene	14.48	252	6336m	0.0564	ug/ml	
22) Benzo[k]fluoranthene	14.50	252	5108m	0.0387	ug/ml	
23) Benzo[a]pyrene	15.00	252	4926	0.0425	ug/ml#	72
24) Indeno[1,2,3-cd]pyrene	17.27	276	4340	0.0304	ug/ml	100
26) Benzo[ghi]perylene	17.92	276	4582	0.0378	ug/ml	98

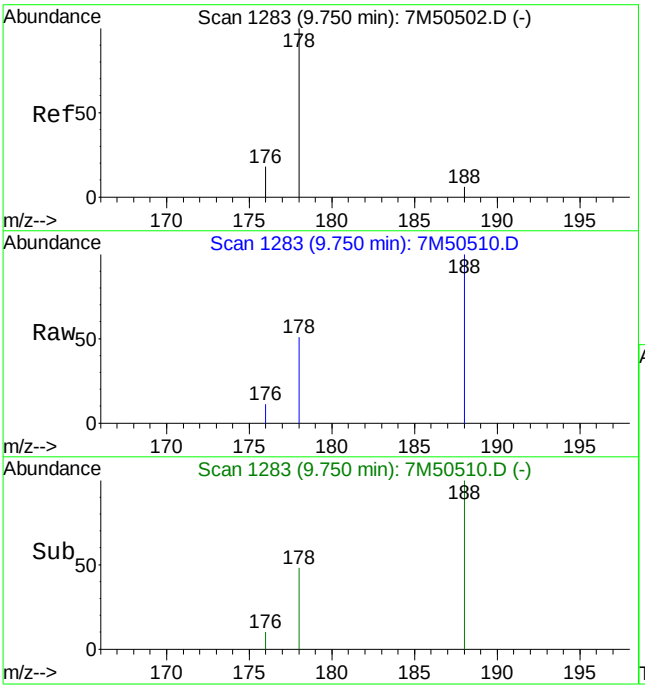
(#) = qualifier out of range (m) = manual integration
7M50510.D SIMPAHL.M Tue Feb 22 07:07:30 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50510.D Vial: 10
Acq On : 21 Feb 2011 1:53 pm Operator: CAA
Sample : L11020447-02 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:55 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration

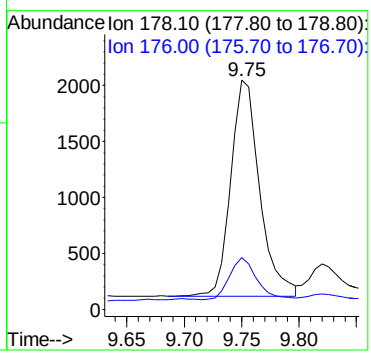


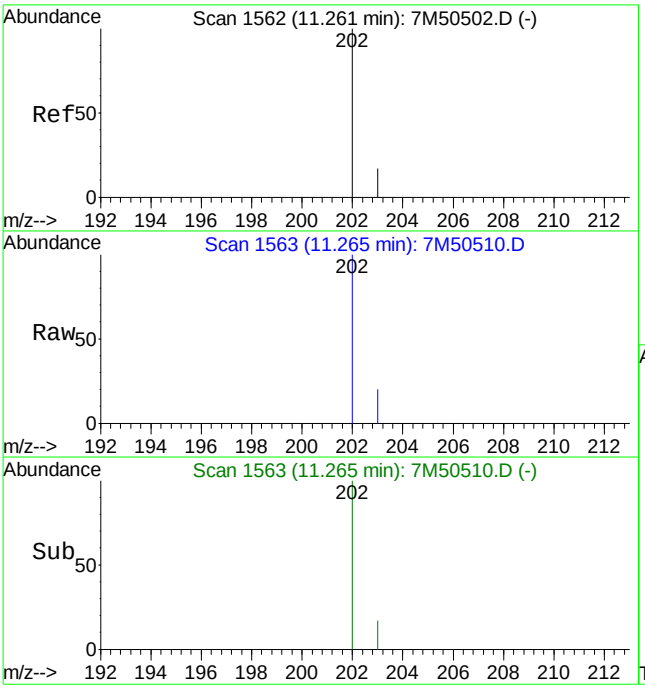


#12
Phenanthrene
Concen: 0.03 ug/ml
RT: 9.75 min Scan# 1283
Delta R.T. 0.01 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:178 Resp: 3380

Ion	Ratio	Lower	Upper
178	100		
176	18.4	11.3	26.3

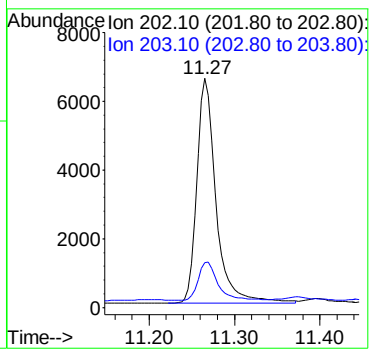


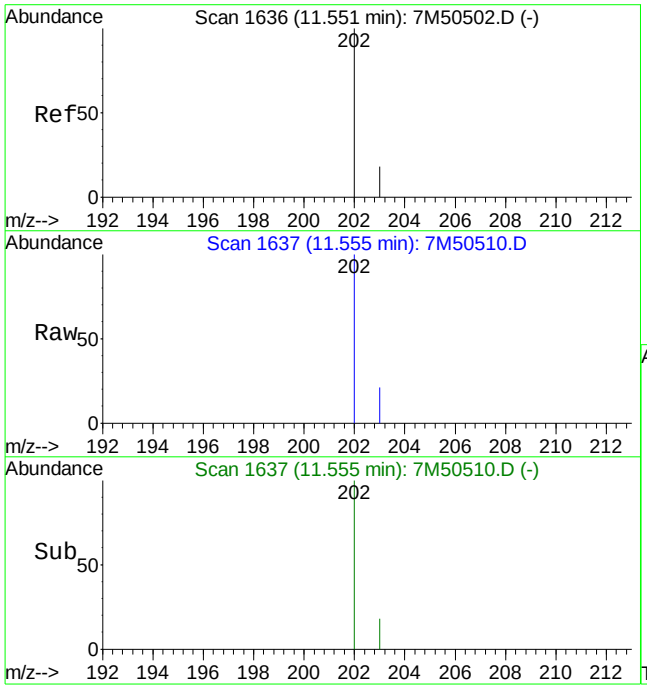


#14
Fluoranthene
Concen: 0.09 ug/ml
RT: 11.27 min Scan# 1563
Delta R.T. 0.03 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:202 Resp: 10248

Ion	Ratio	Lower	Upper
202	100		
203	17.5	10.4	24.2

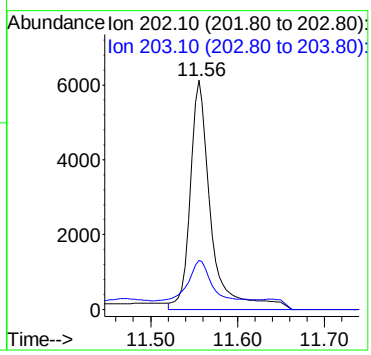


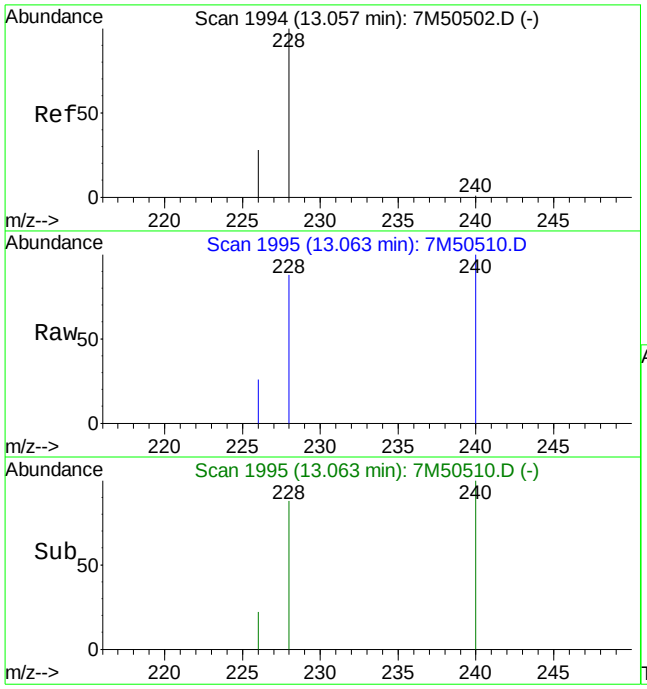


#16
Pyrene
Concen: 0.08 ug/ml
RT: 11.56 min Scan# 1637
Delta R.T. 0.00 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:202 Resp: 10787

Ion	Ratio	Lower	Upper
202	100		
203	16.0	11.0	25.6

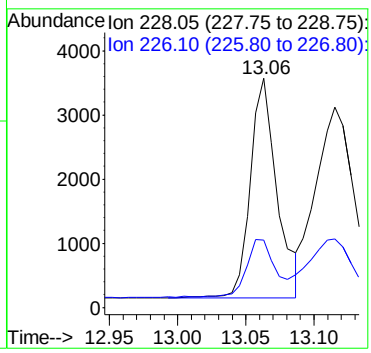


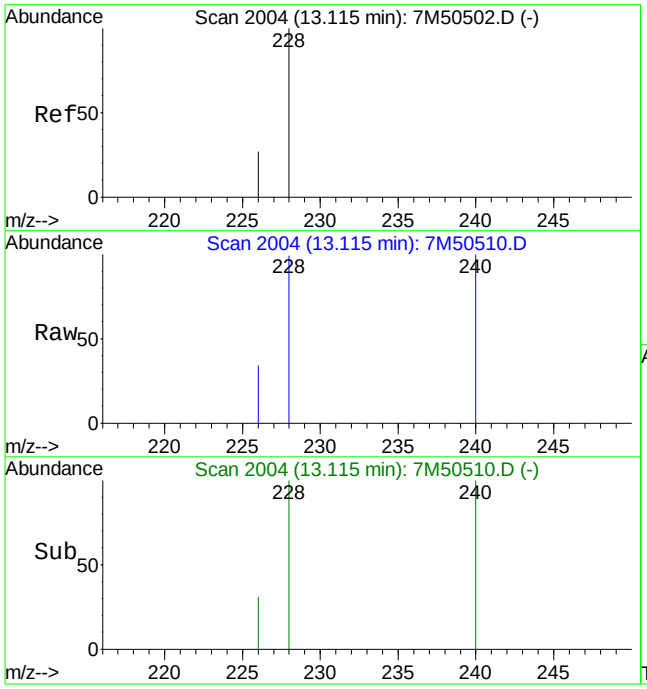


#18
Benzo[a]anthracene
Concen: 0.04 ug/ml
RT: 13.06 min Scan# 1995
Delta R.T. 0.01 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:228 Resp: 4670

Ion	Ratio	Lower	Upper
228	100		
226	29.6	15.2	35.4

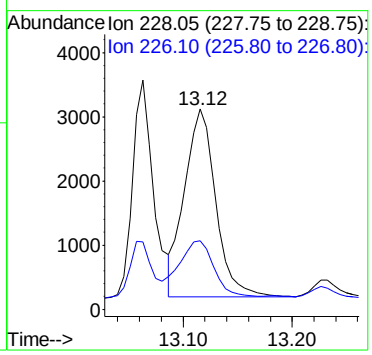


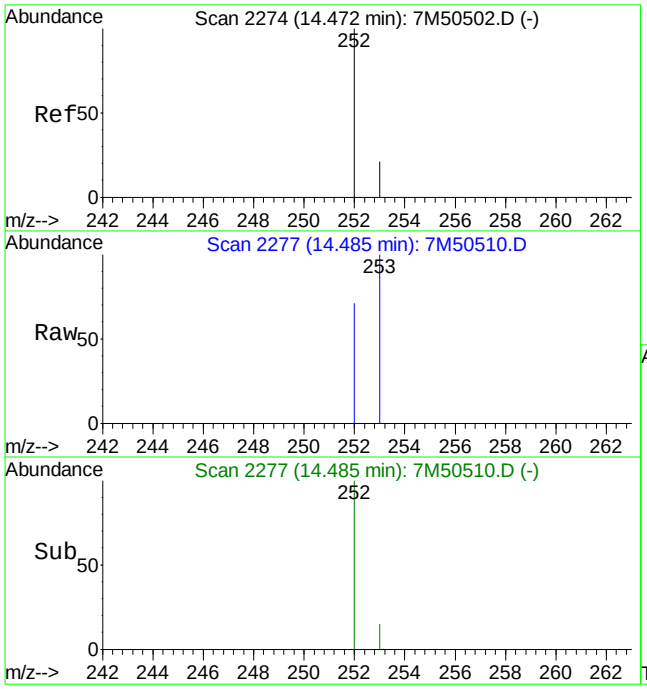


#19
Chrysene
Concen: 0.05 ug/ml
RT: 13.12 min Scan# 2004
Delta R.T. 0.01 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:228 Resp: 5819

Ion	Ratio	Lower	Upper
228	100		
226	33.9	17.2	40.2

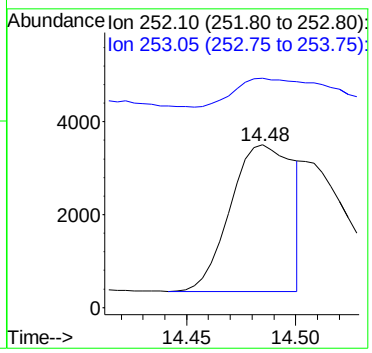


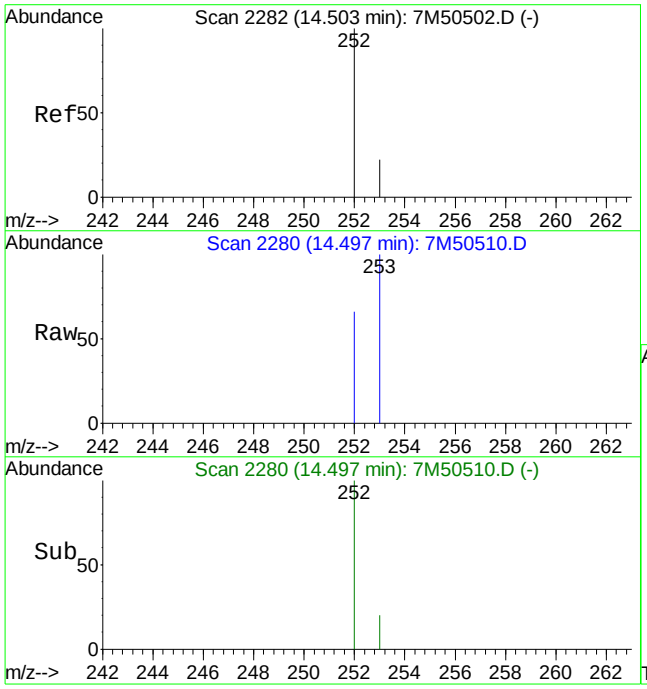


#21
Benzo[b]fluoranthene
Concen: 0.06 ug/ml m
RT: 14.48 min Scan# 2277
Delta R.T. 0.01 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:252 Resp: 6336

Ion	Ratio	Lower	Upper
252	100		
253	38.1	15.4	35.8#

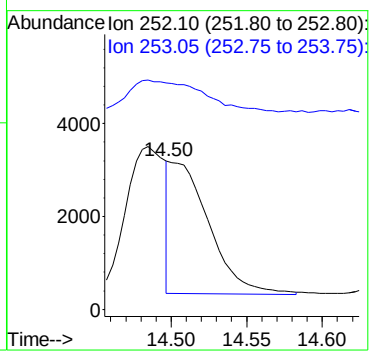


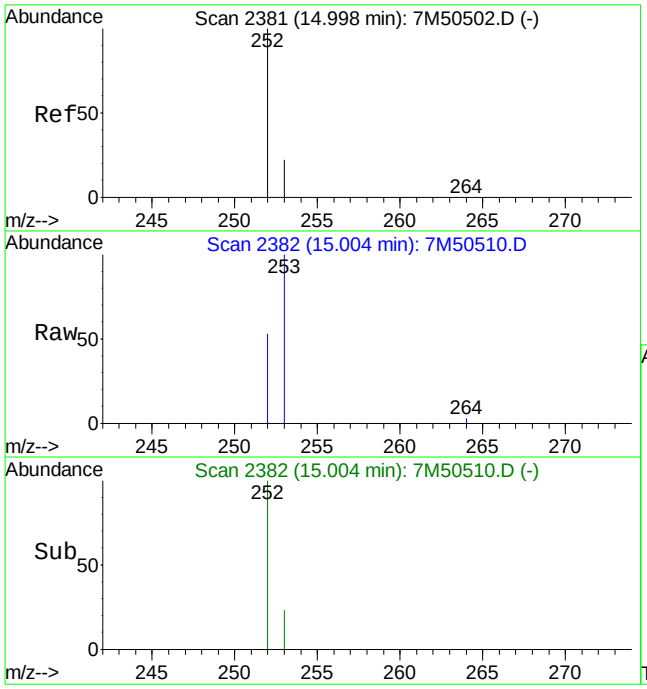


#22
Benzo[k]fluoranthene
Concen: 0.04 ug/ml m
RT: 14.50 min Scan# 2280
Delta R.T. -0.01 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:252 Resp: 5108

Ion	Ratio	Lower	Upper
252	100		
253	46.8	15.6	36.4#

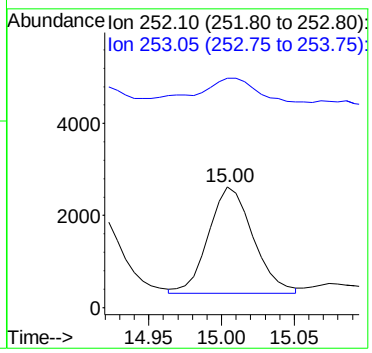


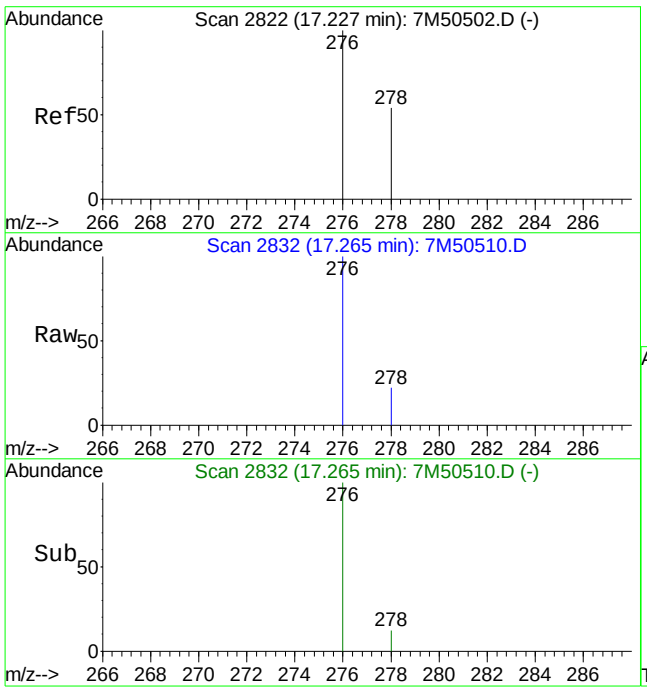


#23
Benzo[a]pyrene
Concen: 0.04 ug/ml
RT: 15.00 min Scan# 2382
Delta R.T. 0.02 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:252 Resp: 4926

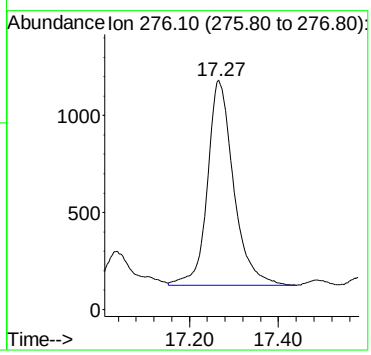
Ion	Ratio	Lower	Upper
252	100		
253	34.4	12.8	30.0#

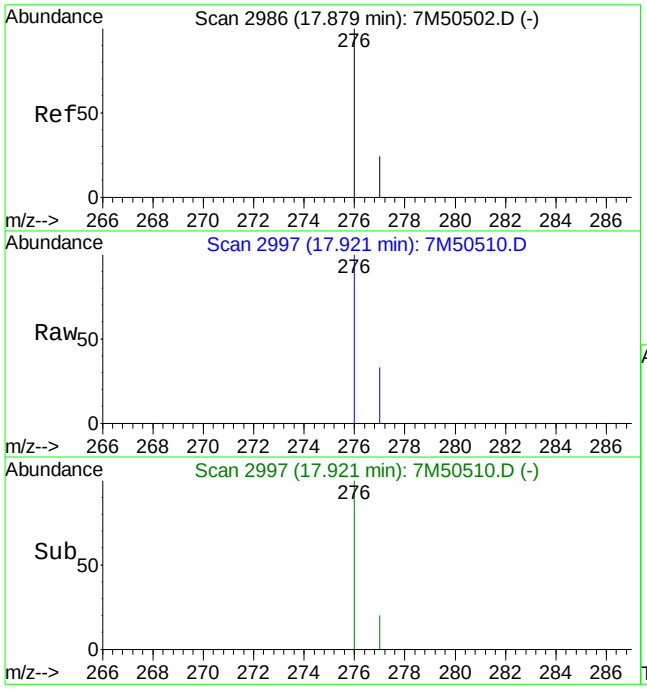




#24
Indeno[1,2,3-cd]pyrene
Concen: 0.03 ug/ml
RT: 17.27 min Scan# 2832
Delta R.T. -0.01 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:276 Resp: 4340

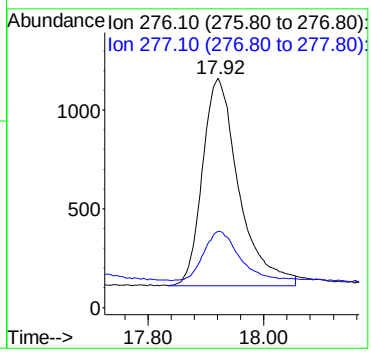




#26
Benzo[ghi]perylene
Concen: 0.04 ug/ml
RT: 17.92 min Scan# 2997
Delta R.T. 0.07 min
Lab File: 7M50510.D
Acq: 21 Feb 2011 1:53 pm

Tgt Ion:276 Resp: 4582

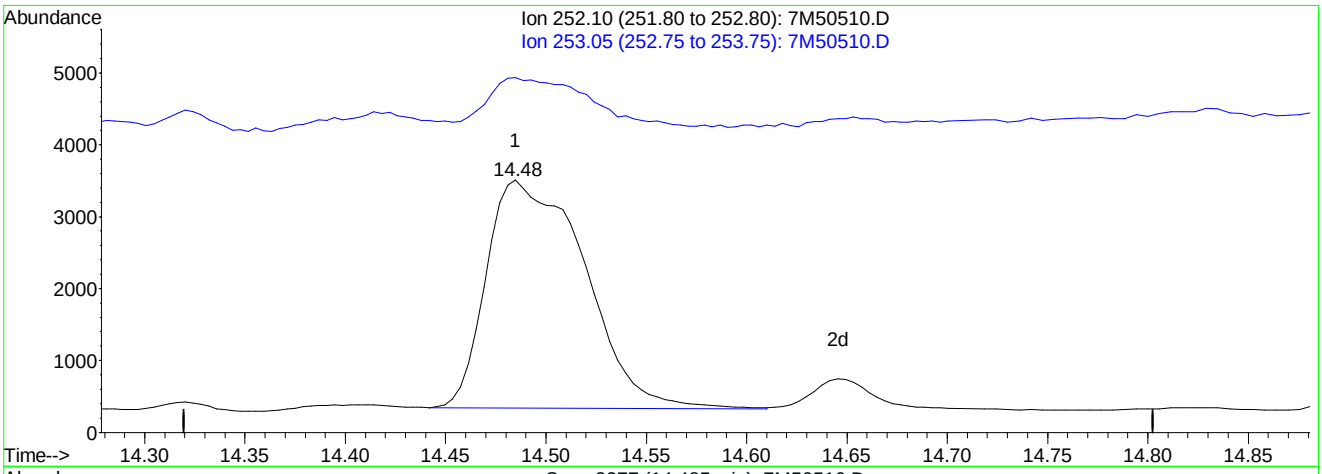
Ion	Ratio	Lower	Upper
276	100		
277	23.4	14.7	34.3

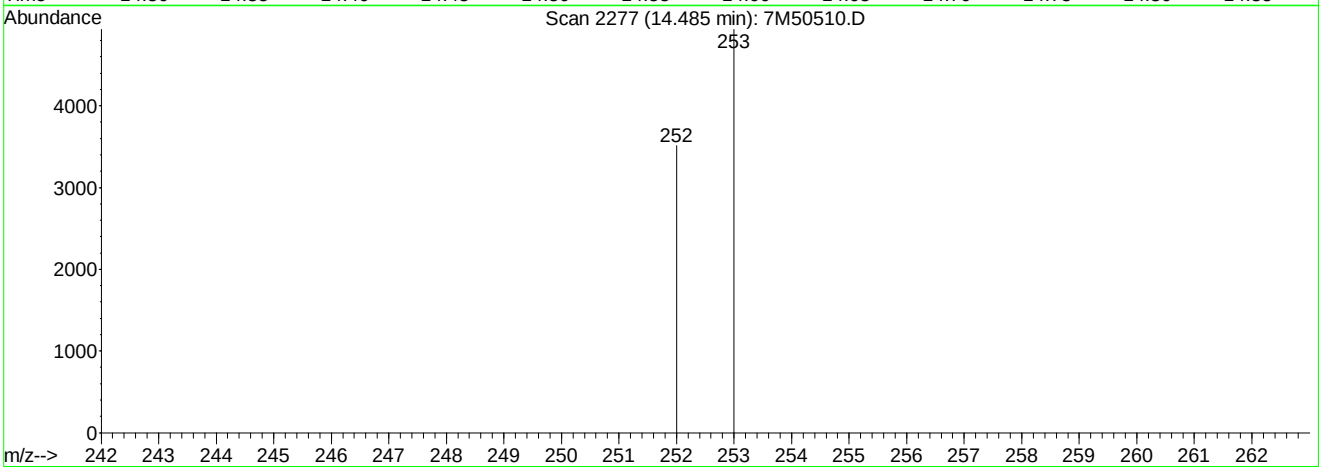


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50510.D Vial: 10
Acq On : 21 Feb 2011 1:53 pm Operator: CAA
Sample : L11020447-02 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:52 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration





TIC: 7M50510.D

(21) Benzo[b]fluoranthene

14.48min 0.10ug/ml

response 10856

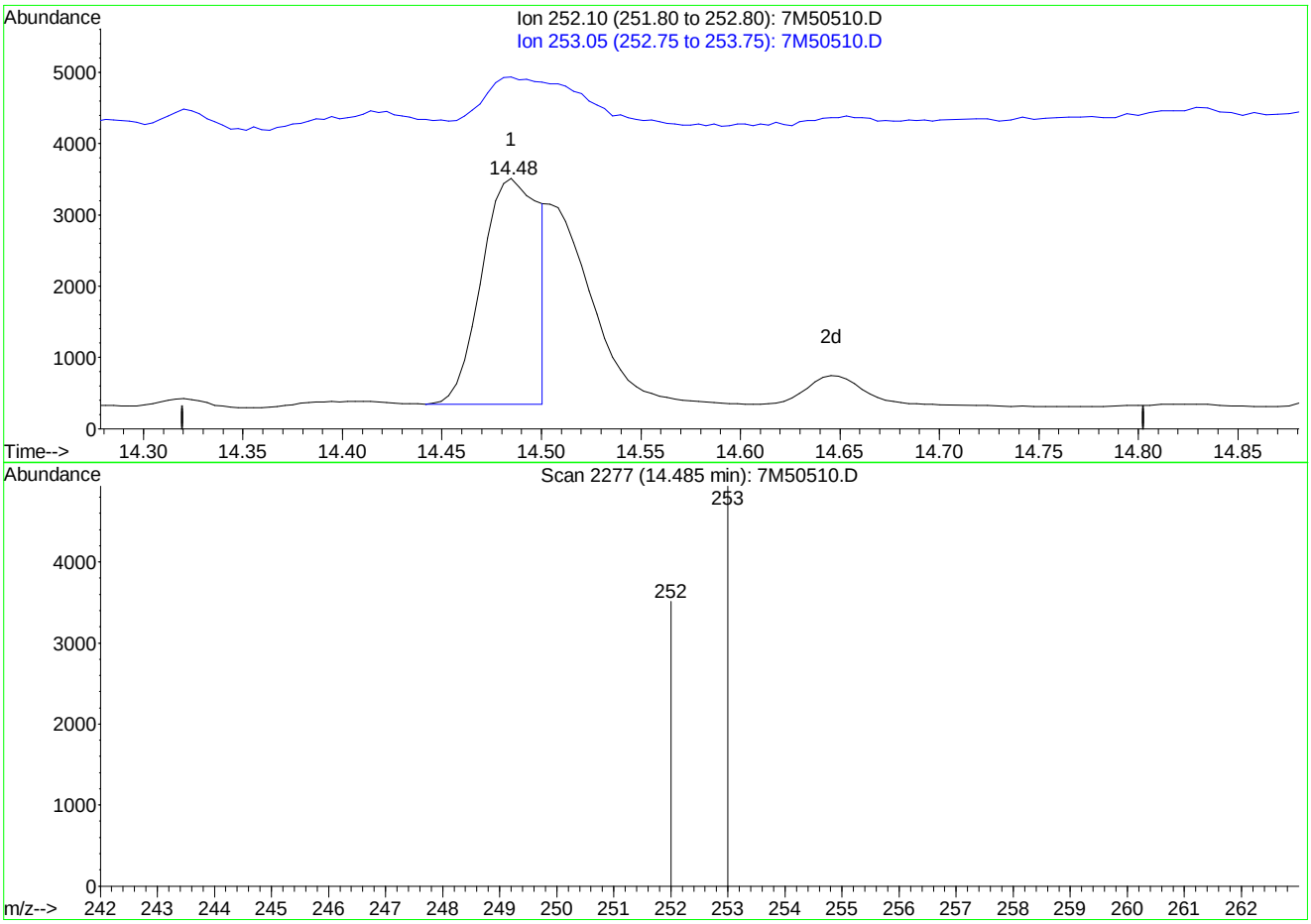
Ion	Exp%	Act%
252.10	100	100
253.05	25.60	22.26
0.00	0.00	0.00
0.00	0.00	0.00

7M50510.D SIMPAHL.M Tue Feb 22 06:54:55 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50510.D Vial: 10
Acq On : 21 Feb 2011 1:53 pm Operator: CAA
Sample : L11020447-02 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:54 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration



TIC: 7M50510.D

(21) Benzo[b]fluoranthene

14.48min 0.06ug/ml mint

response 6336

Ion	Exp%	Act%
252.10	100	100
253.05	25.60	38.15#
0.00	0.00	0.00
0.00	0.00	0.00

7M50510.D SIMPAHL.M Tue Feb 22 06:55:01 2011

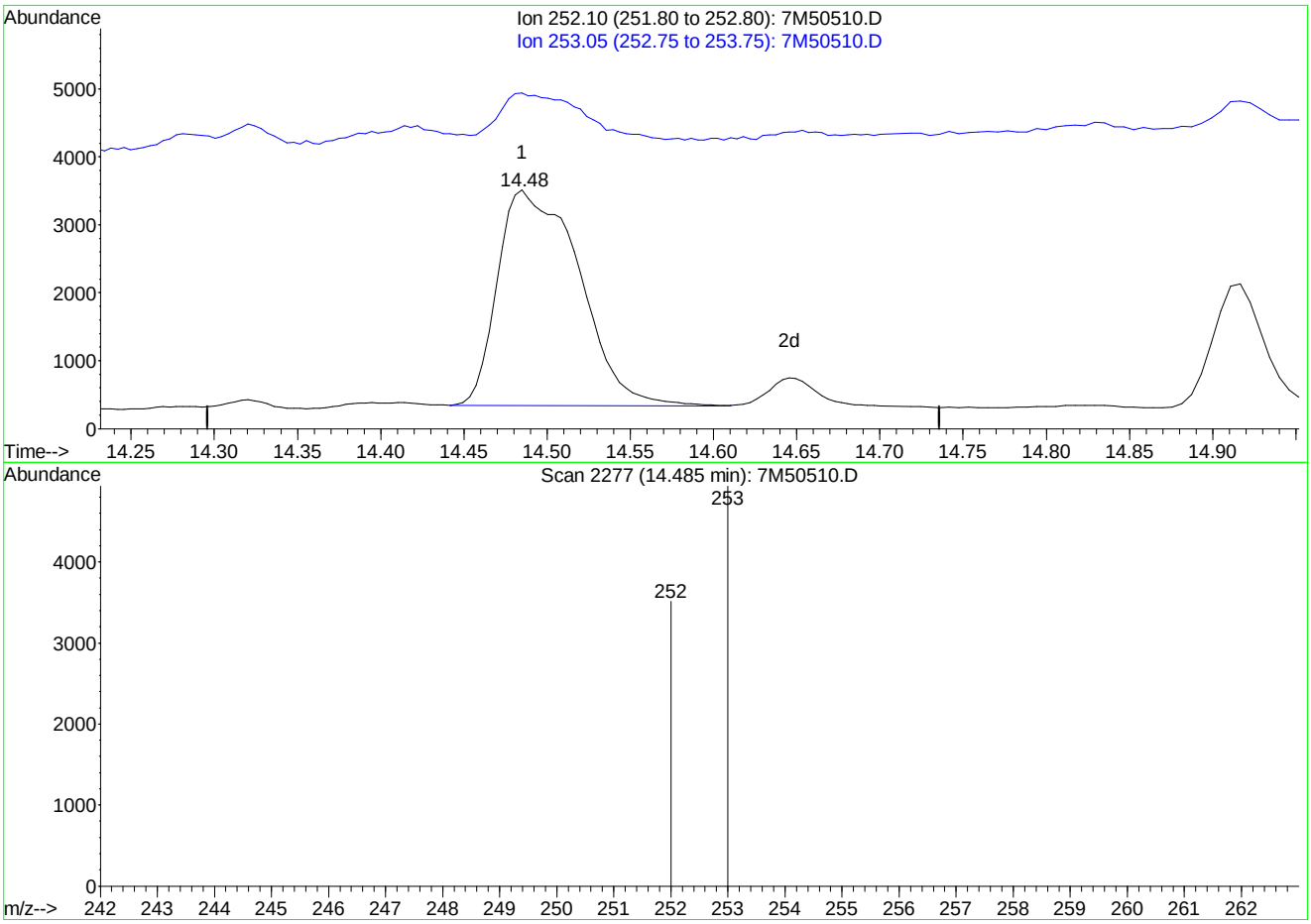
Analyst: 02/22/2011 07:36 Supervisor: 02/22/2011 15:13

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50510.D Vial: 10
Acq On : 21 Feb 2011 1:53 pm Operator: CAA
Sample : L11020447-02 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:54 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration



TIC: 7M50510.D

(22) Benzo[k]fluoranthene

14.48min 0.08ug/ml

response 10790

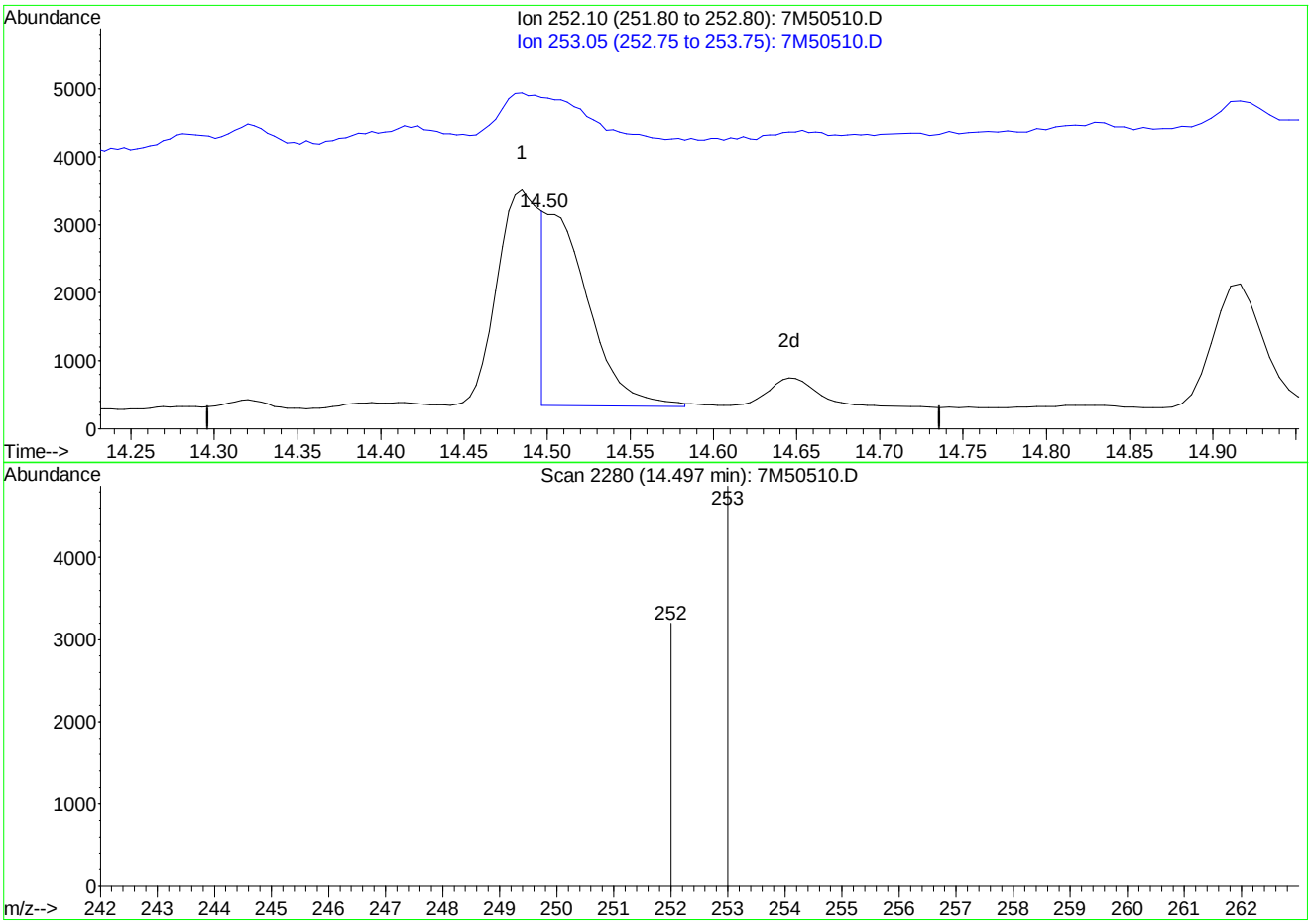
Ion	Exp%	Act%
252.10	100	100
253.05	26.00	22.13
0.00	0.00	0.00
0.00	0.00	0.00

7M50510.D SIMPAHL.M Tue Feb 22 06:55:05 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50510.D Vial: 10
Acq On : 21 Feb 2011 1:53 pm Operator: CAA
Sample : L11020447-02 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:55 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration



TIC: 7M50510.D

(22) Benzo[k]fluoranthene

14.50min 0.04ug/ml mint

response 5108

Ion	Exp%	Act%
252.10	100	100
253.05	26.00	46.75#
0.00	0.00	0.00
0.00	0.00	0.00

7M50510.D SIMPAHL.M Tue Feb 22 06:55:11 2011

Analyst: 02/22/2011 07:36 Supervisor: 02/22/2011 15:13

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50508.D Vial: 8
Acq On : 21 Feb 2011 12:58 pm Operator: CAA
Sample : L11020447-03 MS Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 06:52:23 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

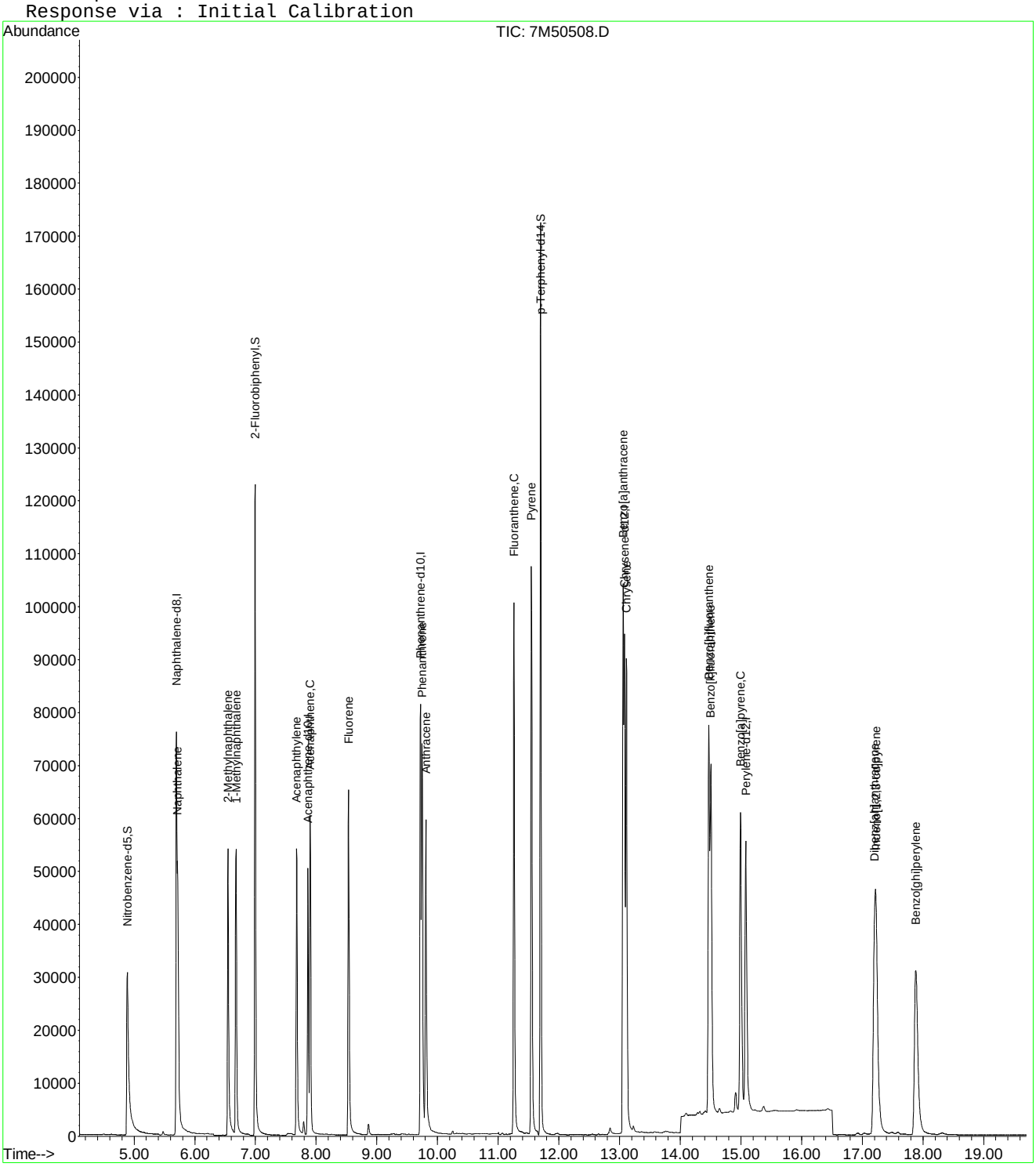
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.70	136	107050	1.00	ug/ml	0.01
6) Acenaphthene-d10	7.87	164	67257	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.72	188	106702	1.00	ug/ml	0.01
15) Chrysene-d12	13.08	240	118390	1.00	ug/ml	0.00
20) Perylene-d12	15.08	264	109009	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.89	82	52838	1.7495	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 70.00%			
7) 2-Fluorobiphenyl	7.00	172	119897	1.5552	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 62.40%			
17) p-Terphenyl-d14	11.70	244	191765	2.3924	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 95.60%			
Target Compounds						Qvalue
3) Naphthalene	5.72	128	61542	0.6086	ug/ml	100
4) 2-Methylnaphthalene	6.55	142	42720	0.6554	ug/ml	100
5) 1-Methylnaphthalene	6.68	142	39246	0.5987	ug/ml	99
8) Acenaphthylene	7.68	152	60910	0.4994	ug/ml	100
9) Acenaphthene	7.90	154	37218	0.5392	ug/ml	97
10) Fluorene	8.53	166	46319	0.5811	ug/ml	100
12) Phenanthrene	9.74	178	82350	0.7944	ug/ml	99
13) Anthracene	9.81	178	72370	0.8023	ug/ml	99
14) Fluoranthene	11.26	202	119668	1.0012	ug/ml	100
16) Pyrene	11.55	202	132356	0.9034	ug/ml	96
18) Benzo[a]anthracene	13.06	228	104467	0.8382	ug/ml	97
19) Chrysene	13.12	228	104983	0.8229	ug/ml	99
21) Benzo[b]fluoranthene	14.47	252	105648	0.9179	ug/ml	91
22) Benzo[k]fluoranthene	14.50	252	88588	0.6558	ug/ml	93
23) Benzo[a]pyrene	14.99	252	99278	0.8364	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	17.23	276	115481	0.7904	ug/ml	100
25) Dibenz[ah]anthracene	17.20	278	96351	0.7892	ug/ml	100
26) Benzo[ghi]perylene	17.88	276	101074	0.8130	ug/ml	98

(#) = qualifier out of range (m) = manual integration
7M50508.D SIMPAHL.M Tue Feb 22 06:58:14 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50508.D Vial: 8
Acq On : 21 Feb 2011 12:58 pm Operator: CAA
Sample : L11020447-03 MS Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:52 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50509.D Vial: 9
Acq On : 21 Feb 2011 1:25 pm Operator: CAA
Sample : L11020447-04 MSD Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 06:52:24 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

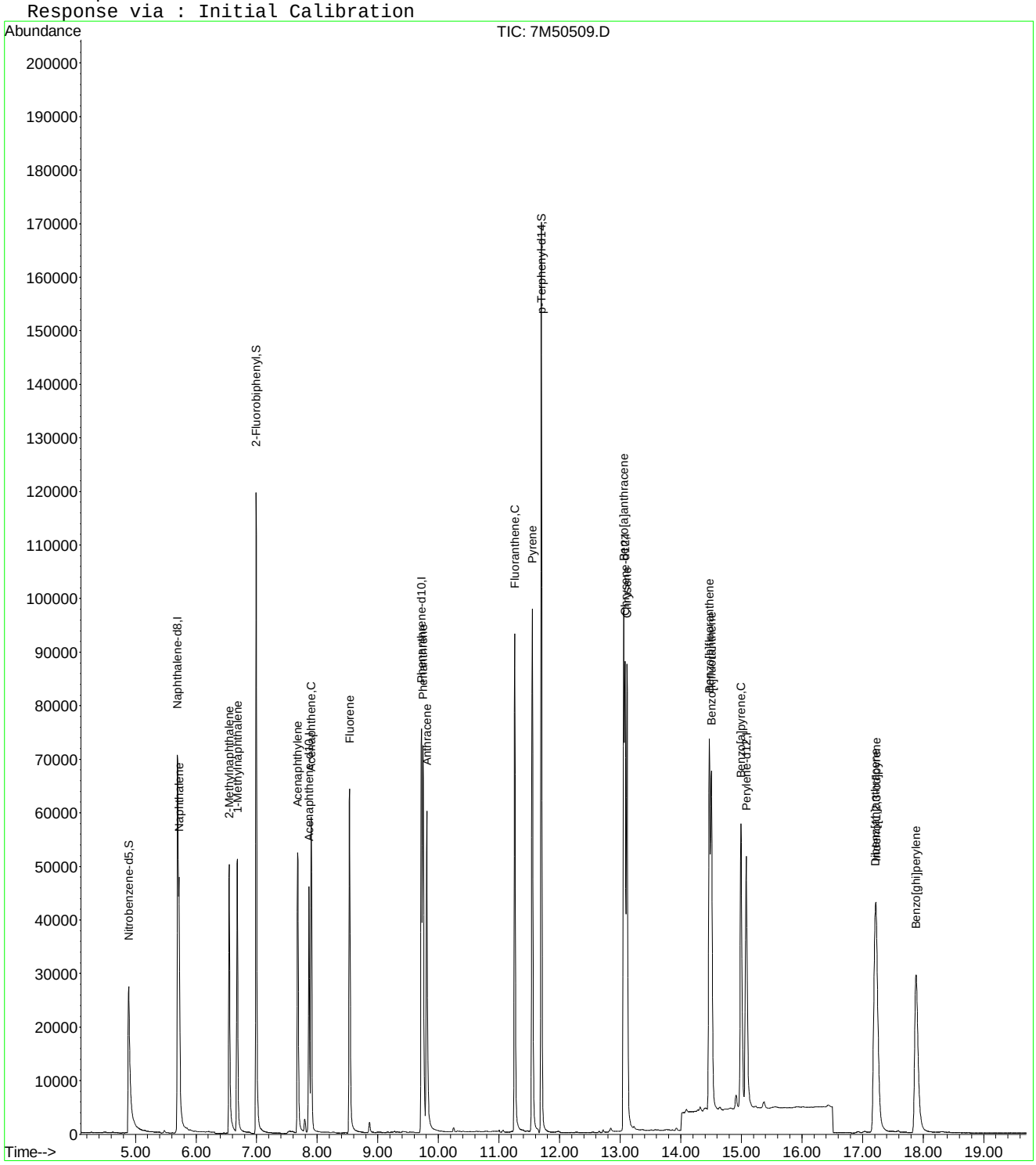
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.69	136	101440	1.00	ug/ml	0.00
6) Acenaphthene-d10	7.86	164	62438	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.72	188	100268	1.00	ug/ml	0.01
15) Chrysene-d12	13.08	240	111767	1.00	ug/ml	0.00
20) Perylene-d12	15.08	264	101778	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.89	82	46499	1.6248	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 64.80%			
7) 2-Fluorobiphenyl	6.99	172	113098	1.5803	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 63.20%			
17) p-Terphenyl-d14	11.70	244	186425	2.4636	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 98.40%			
Target Compounds						Qvalue
3) Naphthalene	5.72	128	55195	0.5760	ug/ml	100
4) 2-Methylnaphthalene	6.55	142	39538	0.6402	ug/ml	100
5) 1-Methylnaphthalene	6.68	142	36618	0.5895	ug/ml	99
8) Acenaphthylene	7.68	152	58172	0.5138	ug/ml	99
9) Acenaphthene	7.90	154	35801	0.5587	ug/ml	96
10) Fluorene	8.53	166	46460	0.6278	ug/ml	99
12) Phenanthrene	9.74	178	80908	0.8305	ug/ml	99
13) Anthracene	9.81	178	73187	0.8635	ug/ml	99
14) Fluoranthene	11.26	202	108021	0.9618	ug/ml	100
16) Pyrene	11.55	202	121932	0.8815	ug/ml	96
18) Benzo[a]anthracene	13.06	228	97762	0.8309	ug/ml	97
19) Chrysene	13.11	228	98988	0.8218	ug/ml	99
21) Benzo[b]fluoranthene	14.47	252	100239	0.9327	ug/ml	92
22) Benzo[k]fluoranthene	14.50	252	82674	0.6555	ug/ml	93
23) Benzo[a]pyrene	14.99	252	91734	0.8278	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	17.23	276	109107	0.7999	ug/ml	100
25) Dibenz[ah]anthracene	17.20	278	91984	0.8070	ug/ml	100
26) Benzo[ghi]perylene	17.88	276	95262	0.8207	ug/ml	98

(#) = qualifier out of range (m) = manual integration
7M50509.D SIMPAHL.M Tue Feb 22 06:58:15 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50509.D Vial: 9
Acq On : 21 Feb 2011 1:25 pm Operator: CAA
Sample : L11020447-04 MSD Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:52 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03987.D
Acq On : 22 Feb 2011 1:29 pm
Operator : CAA
Sample : L11020447-05 827-PAHL
Misc : 1,1
ALS Vial : 6 Sample Multiplier: 1

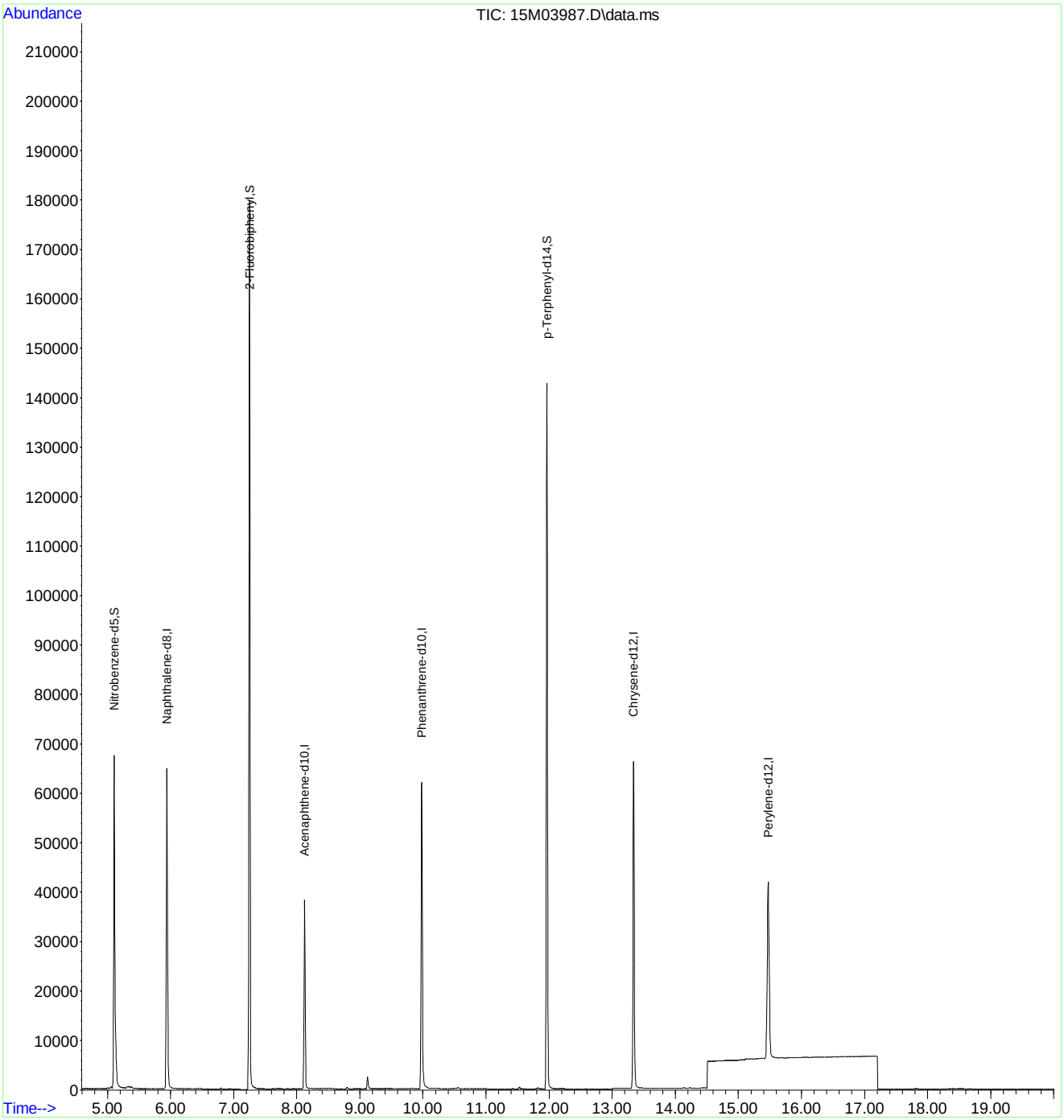
Quant Time: Feb 22 13:49:02 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 13:48:44 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.943	136	86826	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.125	164	47288	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.982	188	83101	1.00	ug/mL	0.00
15) Chrysene-d12	13.338	240	87538	1.00	ug/mL	-0.01
20) Perylene-d12	15.474	264	79484	1.00	ug/mL	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.107	82	70932	2.39	ug/mL	-0.03
Spiked Amount 2.500	Range 35 - 114		Recovery = 95.60%			
7) 2-Fluorobiphenyl	7.249	172	155566	2.49	ug/mL	-0.01
Spiked Amount 2.500	Range 43 - 116		Recovery = 99.60%			
17) p-Terphenyl-d14	11.964	244	148636	2.57	ug/mL	-0.01
Spiked Amount 2.500	Range 33 - 141		Recovery = 102.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03987.D
Acq On : 22 Feb 2011 1:29 pm
Operator : CAA
Sample : L11020447-05 827-PAHL
Misc : 1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 22 13:49:02 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 13:48:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50505.D Vial: 5
Acq On : 21 Feb 2011 11:36 am Operator: CAA
Sample : L11020447-06 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 06:52:21 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.70	136	94647	1.00	ug/ml	0.01
6) Acenaphthene-d10	7.86	164	62353	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.72	188	100346	1.00	ug/ml	0.01
15) Chrysene-d12	13.09	240	112822	1.00	ug/ml	0.01
20) Perylene-d12	15.08	264	103965	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.89	82	48760	1.8260	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 73.20%			
7) 2-Fluorobiphenyl	6.99	172	118503	1.6580	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 66.40%			
17) p-Terphenyl-d14	11.70	244	176838	2.3150	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 92.80%			

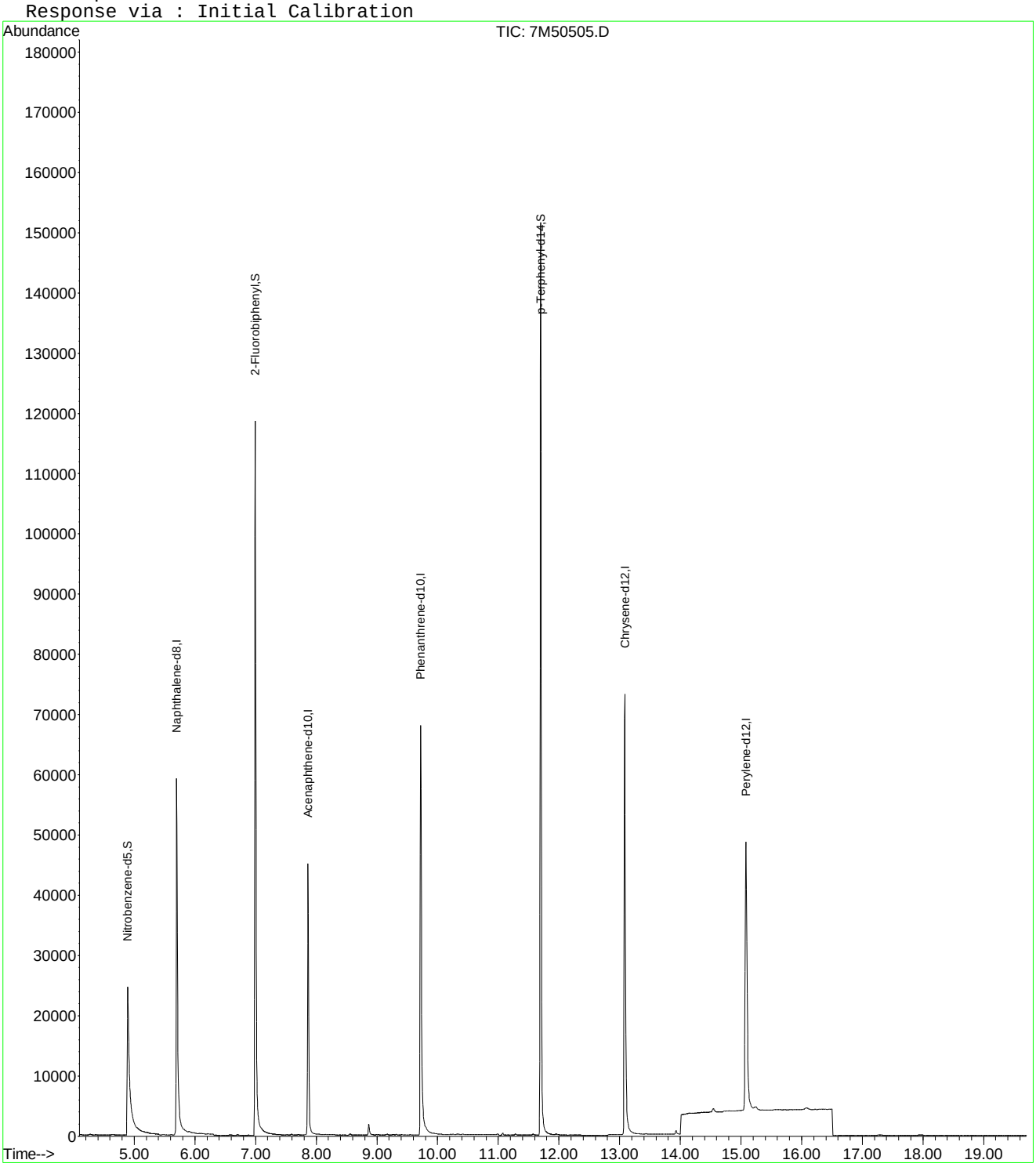
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
7M50505.D SIMPAHL.M Tue Feb 22 07:07:25 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50505.D Vial: 5
Acq On : 21 Feb 2011 11:36 am Operator: CAA
Sample : L11020447-06 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:52 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50506.D Vial: 6
Acq On : 21 Feb 2011 12:03 pm Operator: CAA
Sample : L11020447-07 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 06:52:21 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

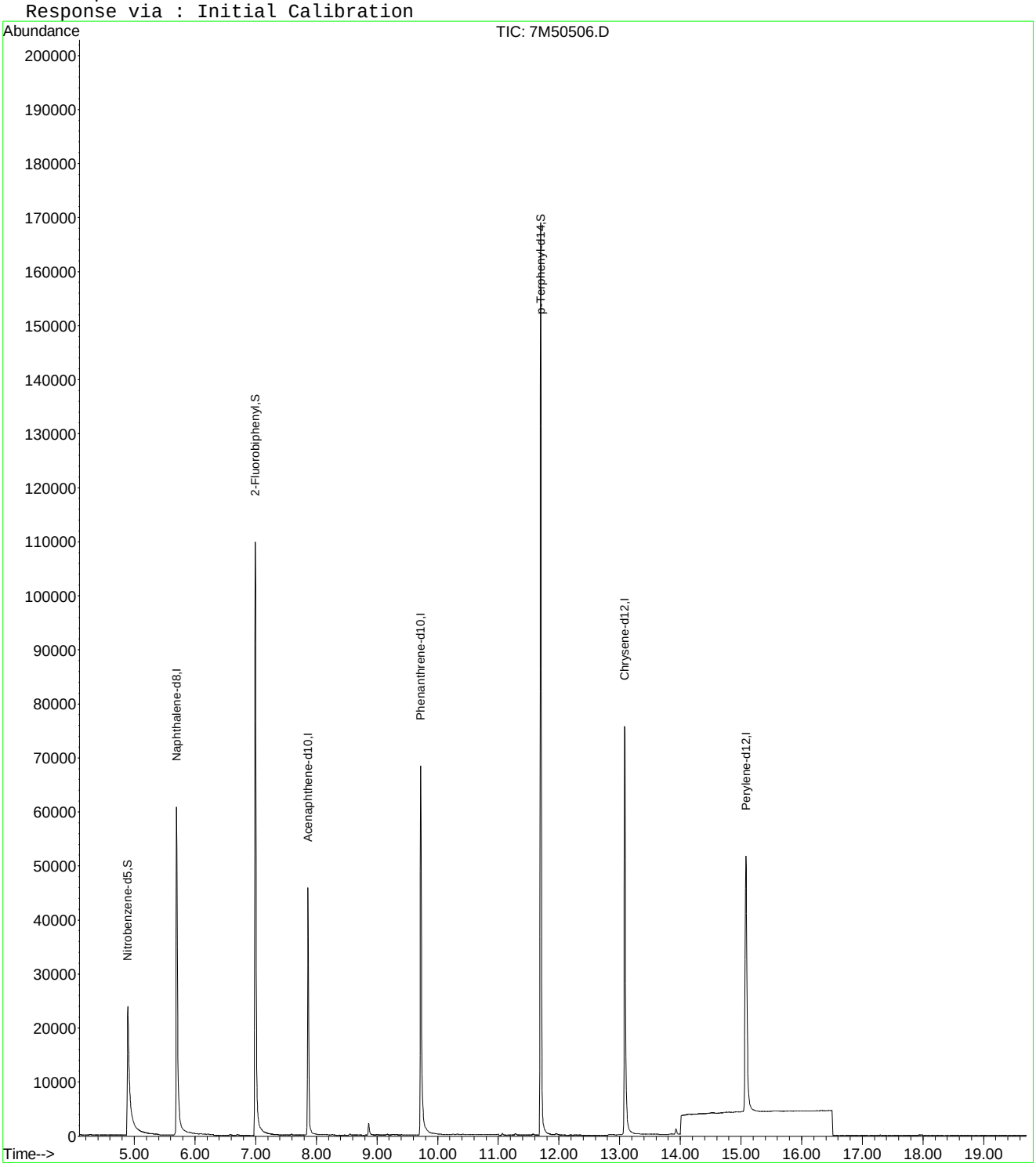
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.70	136	96067	1.00	ug/ml	0.01
6) Acenaphthene-d10	7.86	164	62828	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.72	188	100908	1.00	ug/ml	0.01
15) Chrysene-d12	13.08	240	115925	1.00	ug/ml	0.00
20) Perylene-d12	15.08	264	106753	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.89	82	46570	1.7182	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 68.80%			
7) 2-Fluorobiphenyl	6.99	172	111934	1.5543	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 62.00%			
17) p-Terphenyl-d14	11.70	244	197253	2.5132	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 100.40%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50506.D Vial: 6
Acq On : 21 Feb 2011 12:03 pm Operator: CAA
Sample : L11020447-07 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:52 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration



2.1.1.4 Standards Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50417.D Vial: 2
Acq On : 11 Feb 2011 1:30 pm Operator: CAA
Sample : WG356259-02 1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 06:56:45 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:56:41 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

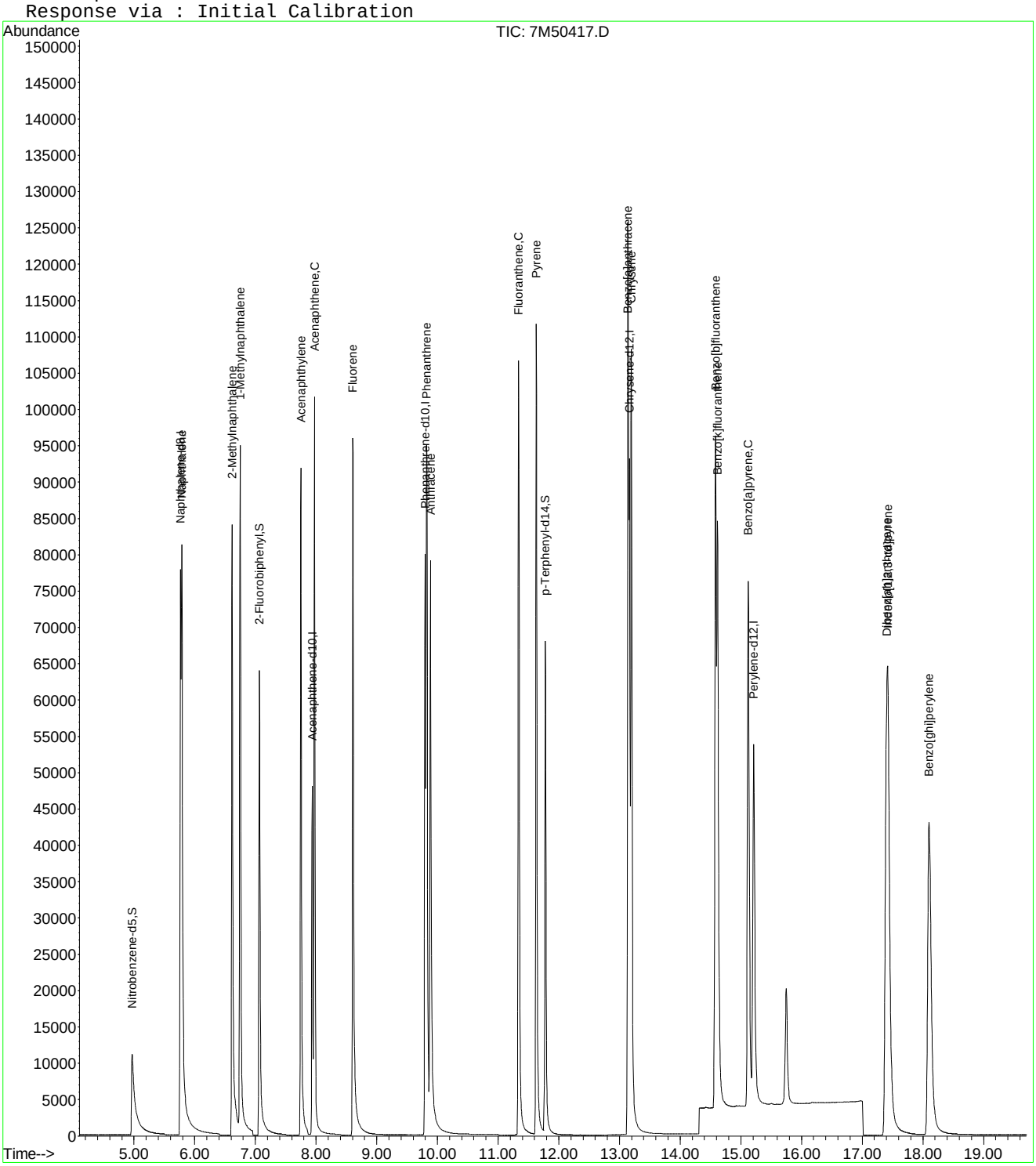
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.76	136	109023	1.00	ug/ml	0.01
6) Acenaphthene-d10	7.94	164	59479	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.80	188	109027	1.00	ug/ml	0.00
15) Chrysene-d12	13.16	240	117681	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	116769	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.97	82	29224	0.9371	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 37.60%			
7) 2-Fluorobiphenyl	7.07	172	73545	1.1315	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 45.20%			
17) p-Terphenyl-d14	11.78	244	82013	1.0488	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 42.00%			
Target Compounds						Qvalue
3) Naphthalene	5.79	128	106827	0.9905	ug/ml	100
4) 2-Methylnaphthalene	6.62	142	71292	1.0811	ug/ml	99
5) 1-Methylnaphthalene	6.75	142	68572	1.0059	ug/ml	98
8) Acenaphthylene	7.75	152	116961	1.1191	ug/ml	99
9) Acenaphthene	7.97	154	64703	0.9611	ug/ml	95
10) Fluorene	8.61	166	77052	1.0908	ug/ml	99
12) Phenanthrene	9.83	178	111864	0.9853	ug/ml	100
13) Anthracene	9.88	178	104230	0.9843	ug/ml	100
14) Fluoranthene	11.34	202	132445	1.0214	ug/ml	100
16) Pyrene	11.63	202	150689	0.8858	ug/ml	100
18) Benzo[a]anthracene	13.14	228	133840	1.0226	ug/ml	99
19) Chrysene	13.20	228	126737	0.9068	ug/ml	99
21) Benzo[b]fluoranthene	14.58	252	137328	1.0935	ug/ml	100
22) Benzo[k]fluoranthene	14.62	252	134128	0.8336	ug/ml	98
23) Benzo[a]pyrene	15.12	252	135369	0.9813	ug/ml	88
24) Indeno[1,2,3-cd]pyrene	17.43	276	171327	1.2159	ug/ml	100
25) Dibenz[ah]anthracene	17.40	278	143463	1.2591	ug/ml	100
26) Benzo[ghi]perylene	18.10	276	145431	1.2274	ug/ml	100

(#) = qualifier out of range (m) = manual integration
7M50417.D SIMPAHL.M Mon Feb 14 07:16:27 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50417.D Vial: 2
Acq On : 11 Feb 2011 1:30 pm Operator: CAA
Sample : WG356259-02 1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:56 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Initial Calibration



7M50417.D SIMPAHL.M Mon Feb 14 07:16:27 2011 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50418.D Vial: 3
Acq On : 11 Feb 2011 1:57 pm Operator: CAA
Sample : WG356259-03 10ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 06:57:46 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:57:36 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

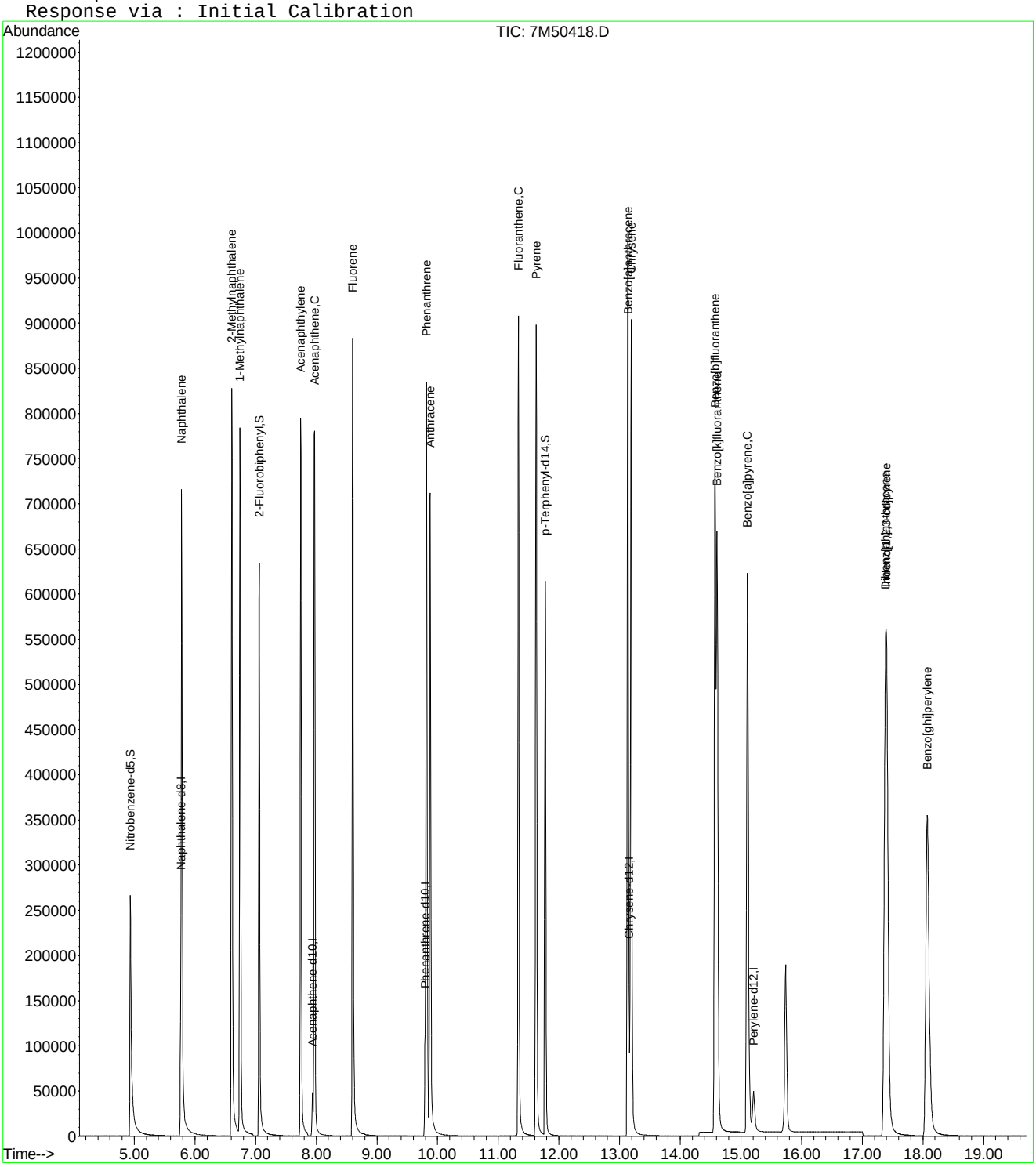
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.76	136	111058	1.00	ug/ml	0.00
6) Acenaphthene-d10	7.94	164	60793	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.79	188	113510	1.00	ug/ml	0.00
15) Chrysene-d12	13.16	240	100177	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	103160	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.94	82	347841	11.1588	ug/ml	-0.03
Spiked Amount 2.500	Range 35 - 114		Recovery = 446.40%#			
7) 2-Fluorobiphenyl	7.06	172	619480	9.2448	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 369.60%#			
17) p-Terphenyl-d14	11.77	244	631145	9.4525	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 378.00%#			
Target Compounds						Qvalue
3) Naphthalene	5.78	128	903298	8.2680	ug/ml	99
4) 2-Methylnaphthalene	6.61	142	604358	8.9979	ug/ml	100
5) 1-Methylnaphthalene	6.74	142	538172	7.7660	ug/ml	100
8) Acenaphthylene	7.74	152	973230	9.0614	ug/ml	99
9) Acenaphthene	7.97	154	523252	7.7075	ug/ml	100
10) Fluorene	8.60	166	635920	8.8102	ug/ml	100
12) Phenanthrene	9.82	178	949851	8.1101	ug/ml	98
13) Anthracene	9.88	178	880580	8.1480	ug/ml	98
14) Fluoranthene	11.33	202	1062024	7.9164	ug/ml	98
16) Pyrene	11.62	202	1132706	7.9901	ug/ml	98
18) Benzo[a]anthracene	13.14	228	1093733	9.8744	ug/ml	96
19) Chrysene	13.19	228	982165	8.3984	ug/ml	98
21) Benzo[b]fluoranthene	14.57	252	1145127	10.3972	ug/ml	97
22) Benzo[k]fluoranthene	14.60	252	939744	6.7218	ug/ml	96
23) Benzo[a]pyrene	15.11	252	1091014	9.0319	ug/ml	98
24) Indeno[1,2,3-cd]pyrene	17.40	276	1286114	10.1221	ug/ml	100
25) Dibenz[ah]anthracene	17.38	278	1110031	10.7613	ug/ml	100
26) Benzo[ghi]perylene	18.07	276	1119202	10.4534	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M50418.D SIMPAHL.M Mon Feb 14 07:16:28 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50418.D Vial: 3
Acq On : 11 Feb 2011 1:57 pm Operator: CAA
Sample : WG356259-03 10ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:57 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50419.D Vial: 4
Acq On : 11 Feb 2011 2:25 pm Operator: CAA
Sample : WG356259-04 5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 06:58:00 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:57:56 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

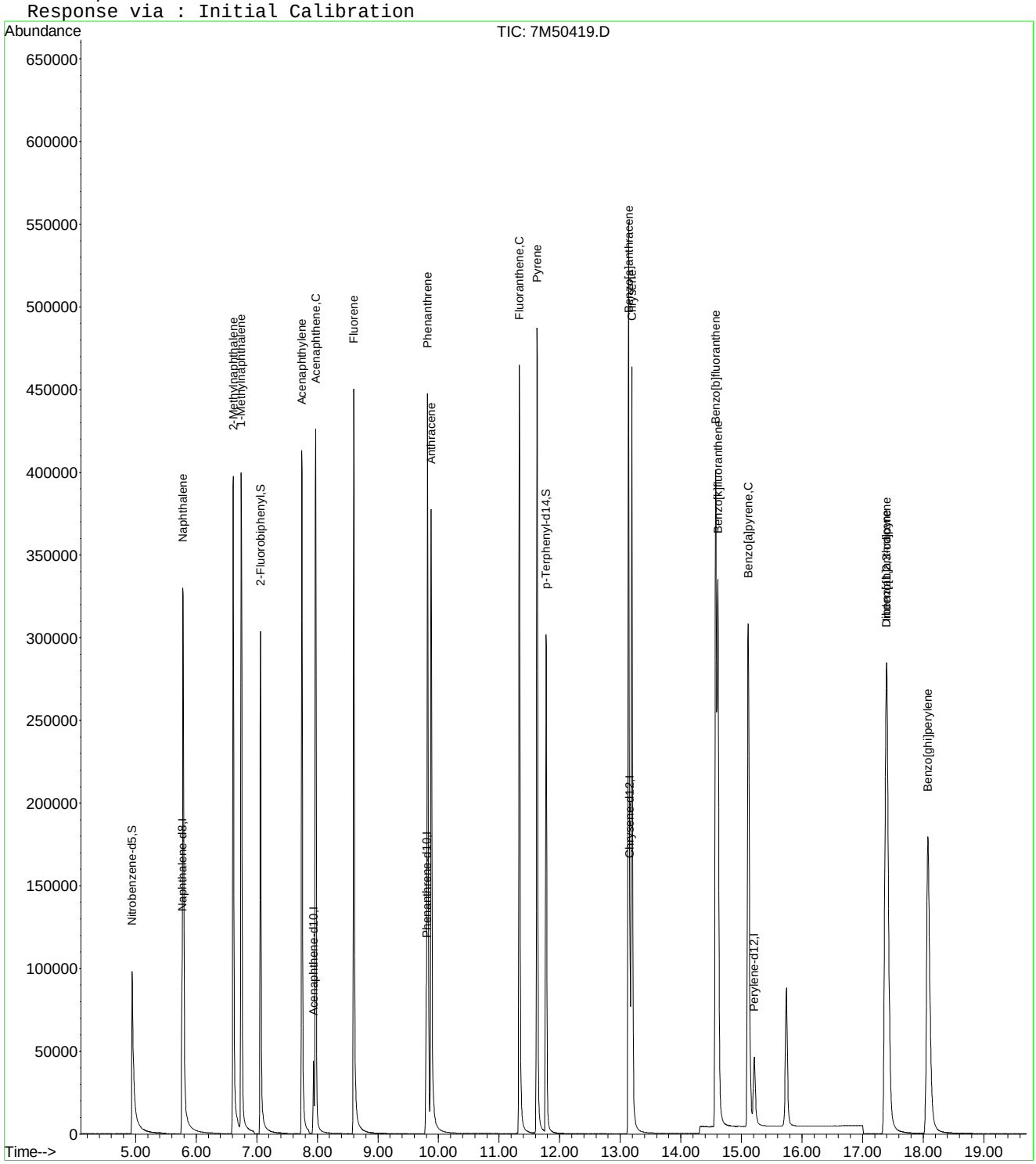
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Naphthalene-d8	5.76	136	99379	1.00 ug/ml	0.00
6) Acenaphthene-d10	7.94	164	55839	1.00 ug/ml	0.00
11) Phenanthrene-d10	9.80	188	102875	1.00 ug/ml	0.00
15) Chrysene-d12	13.16	240	100179	1.00 ug/ml	0.00
20) Perylene-d12	15.21	264	99231	1.00 ug/ml	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.94	82	156035	5.5597 ug/ml	-0.02
Spiked Amount 2.500	Range 35 - 114		Recovery = 222.40%#		
7) 2-Fluorobiphenyl	7.06	172	313675	5.1061 ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 204.40%#		
17) p-Terphenyl-d14	11.77	244	333772	4.9836 ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 199.20%#		
Target Compounds					Qvalue
3) Naphthalene	5.79	128	452741	4.6656 ug/ml	100
4) 2-Methylnaphthalene	6.61	142	304466	5.0785 ug/ml	100
5) 1-Methylnaphthalene	6.74	142	274065	4.4308 ug/ml	100
8) Acenaphthylene	7.74	152	497775	5.0389 ug/ml	100
9) Acenaphthene	7.97	154	267978	4.3623 ug/ml	100
10) Fluorene	8.60	166	328594	4.9827 ug/ml	100
12) Phenanthrene	9.82	178	492730	4.6962 ug/ml	100
13) Anthracene	9.88	178	455540	4.7179 ug/ml	99
14) Fluoranthene	11.34	202	560282	4.6190 ug/ml	99
16) Pyrene	11.63	202	603662	4.3257 ug/ml	99
18) Benzo[a]anthracene	13.14	228	565990	5.1223 ug/ml	97
19) Chrysene	13.19	228	522091	4.4974 ug/ml	100
21) Benzo[b]fluoranthene	14.58	252	551407	5.1384 ug/ml	94
22) Benzo[k]fluoranthene	14.61	252	534070m	3.9714 ug/ml	
23) Benzo[a]pyrene	15.11	252	557939	4.8117 ug/ml	99
24) Indeno[1,2,3-cd]pyrene	17.41	276	662303	5.3775 ug/ml	100
25) Dibenz[ah]anthracene	17.38	278	564783	5.6282 ug/ml	100
26) Benzo[ghi]perylene	18.08	276	568412	5.4776 ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50419.D Vial: 4
Acq On : 11 Feb 2011 2:25 pm Operator: CAA
Sample : WG356259-04 5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:01 2011 Quant Results File: SIMPAHL.RES

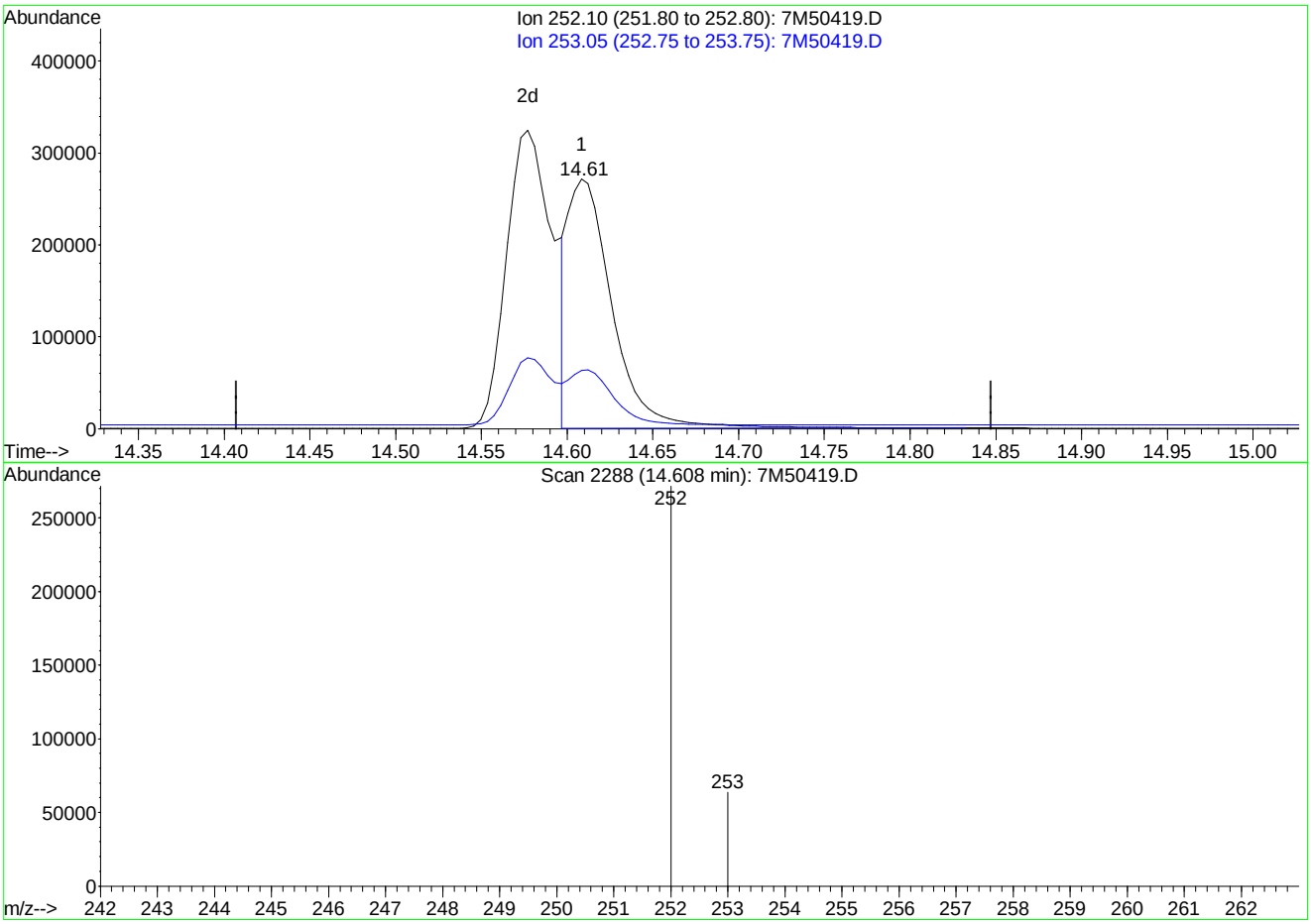
Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50419.D Vial: 4
Acq On : 11 Feb 2011 2:25 pm Operator: CAA
Sample : WG356259-04 5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:58 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:01:03 2011
Response via : Multiple Level Calibration



TIC: 7M50419.D

(22) Benzo[k]fluoranthene

14.61min 3.64ug/ml

response 489562

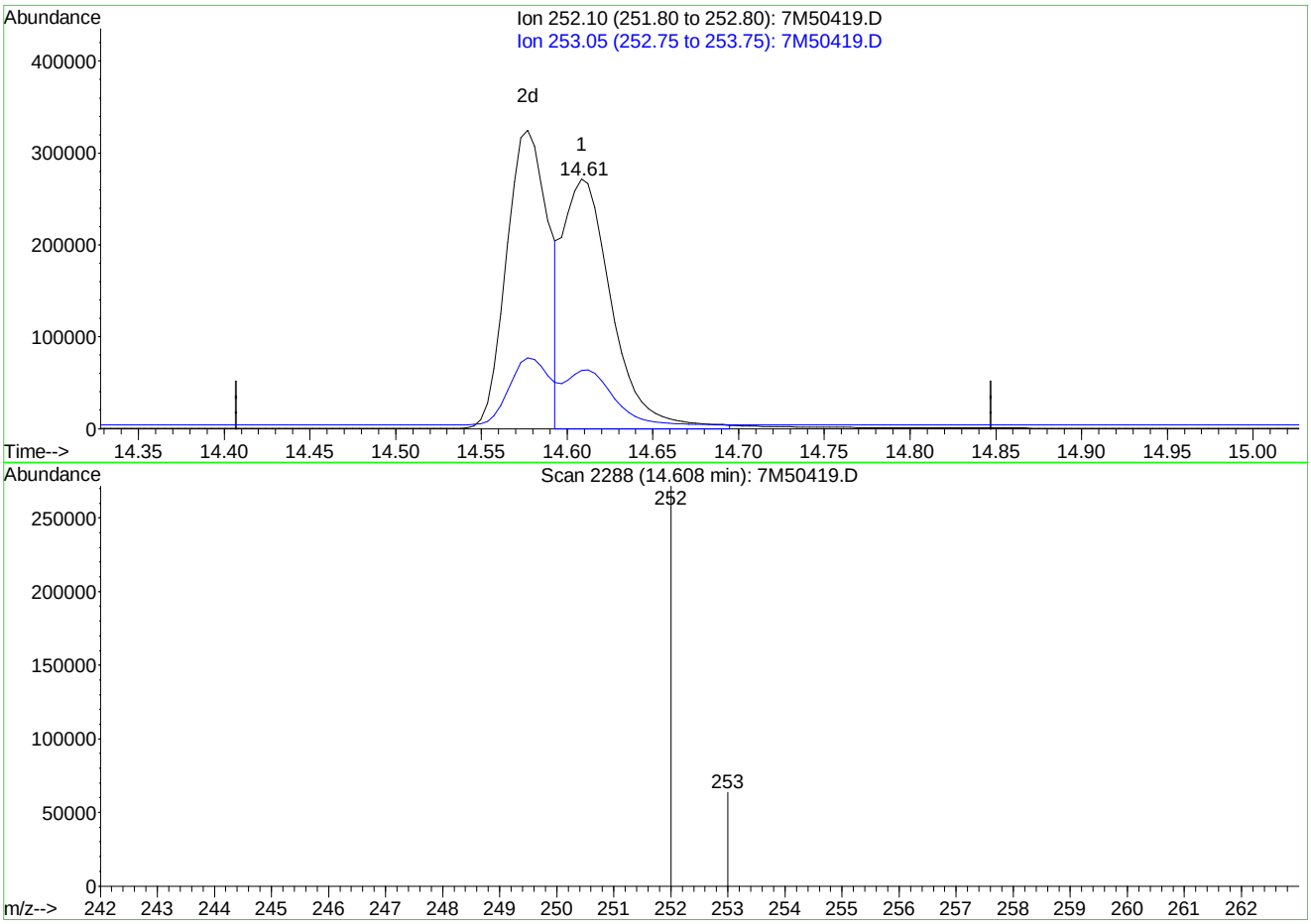
Ion	Exp%	Act%
252.10	100	100
253.05	19.00	19.94
0.00	0.00	0.00
0.00	0.00	0.00

7M50419.D SIMPAHL.M Mon Feb 14 07:01:55 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50419.D Vial: 4
Acq On : 11 Feb 2011 2:25 pm Operator: CAA
Sample : WG356259-04 5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:01 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:01:03 2011
Response via : Multiple Level Calibration



TIC: 7M50419.D

(22) Benzo[k]fluoranthene

14.61min 3.97ug/ml mint

response 534070

Ion	Exp%	Act%
252.10	100	100
253.05	19.00	18.28
0.00	0.00	0.00
0.00	0.00	0.00

7M50419.D SIMPAHL.M Mon Feb 14 07:02:01 2011

Analyst: 02/14/2011 08:30 Supervisor: 02/14/2011 10:33

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50420.D Vial: 5
Acq On : 11 Feb 2011 2:52 pm Operator: CAA
Sample : WG356259-05 2.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 06:58:14 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:58:10 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

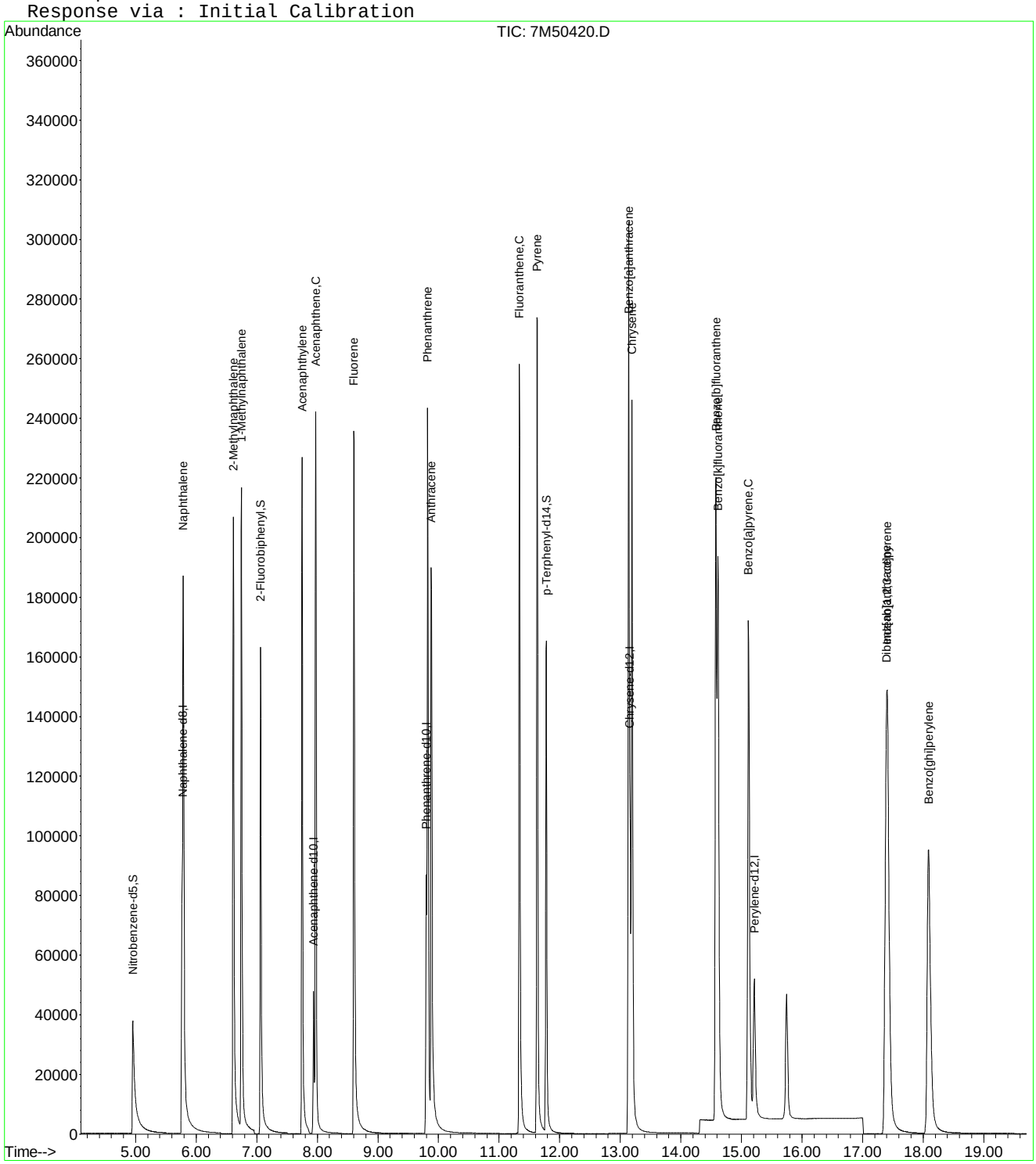
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.77	136	107558	1.00	ug/ml	0.00
6) Acenaphthene-d10	7.94	164	58331	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.80	188	111113	1.00	ug/ml	0.00
15) Chrysene-d12	13.16	240	112432	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	108697	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.95	82	78221	2.5617	ug/ml	-0.02
Spiked Amount 2.500	Range 35 - 114		Recovery = 102.40%			
7) 2-Fluorobiphenyl	7.06	172	175155	2.7335	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 109.20%			
17) p-Terphenyl-d14	11.78	244	190016	2.5206	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 100.80%			
Target Compounds						Qvalue
3) Naphthalene	5.79	128	251518	2.4108	ug/ml	100
4) 2-Methylnaphthalene	6.61	142	169796	2.6220	ug/ml	100
5) 1-Methylnaphthalene	6.75	142	156164	2.3412	ug/ml	100
8) Acenaphthylene	7.75	152	282060	2.7313	ug/ml	100
9) Acenaphthene	7.97	154	152216	2.4149	ug/ml	100
10) Fluorene	8.61	166	184973	2.6991	ug/ml	100
12) Phenanthrene	9.82	178	275110	2.4532	ug/ml	99
13) Anthracene	9.88	178	254605	2.4814	ug/ml	99
14) Fluoranthene	11.34	202	316449	2.4219	ug/ml	100
16) Pyrene	11.63	202	346946	2.2592	ug/ml	100
18) Benzo[a]anthracene	13.14	228	313308	2.5386	ug/ml	98
19) Chrysene	13.20	228	299180	2.3228	ug/ml	100
21) Benzo[b]fluoranthene	14.58	252	311312	2.6775	ug/ml	99
22) Benzo[k]fluoranthene	14.61	252	304693m	2.0945	ug/ml	
23) Benzo[a]pyrene	15.11	252	309284	2.4484	ug/ml	100
24) Indeno[1,2,3-cd]pyrene	17.41	276	371347	2.7296	ug/ml	100
25) Dibenz[ah]anthracene	17.39	278	313845	2.8248	ug/ml	100
26) Benzo[ghi]perylene	18.09	276	314740	2.7447	ug/ml	100

(#) = qualifier out of range (m) = manual integration
7M50420.D SIMPAHL.M Mon Feb 14 07:16:30 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50420.D Vial: 5
Acq On : 11 Feb 2011 2:52 pm Operator: CAA
Sample : WG356259-05 2.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:02 2011 Quant Results File: SIMPAHL.RES

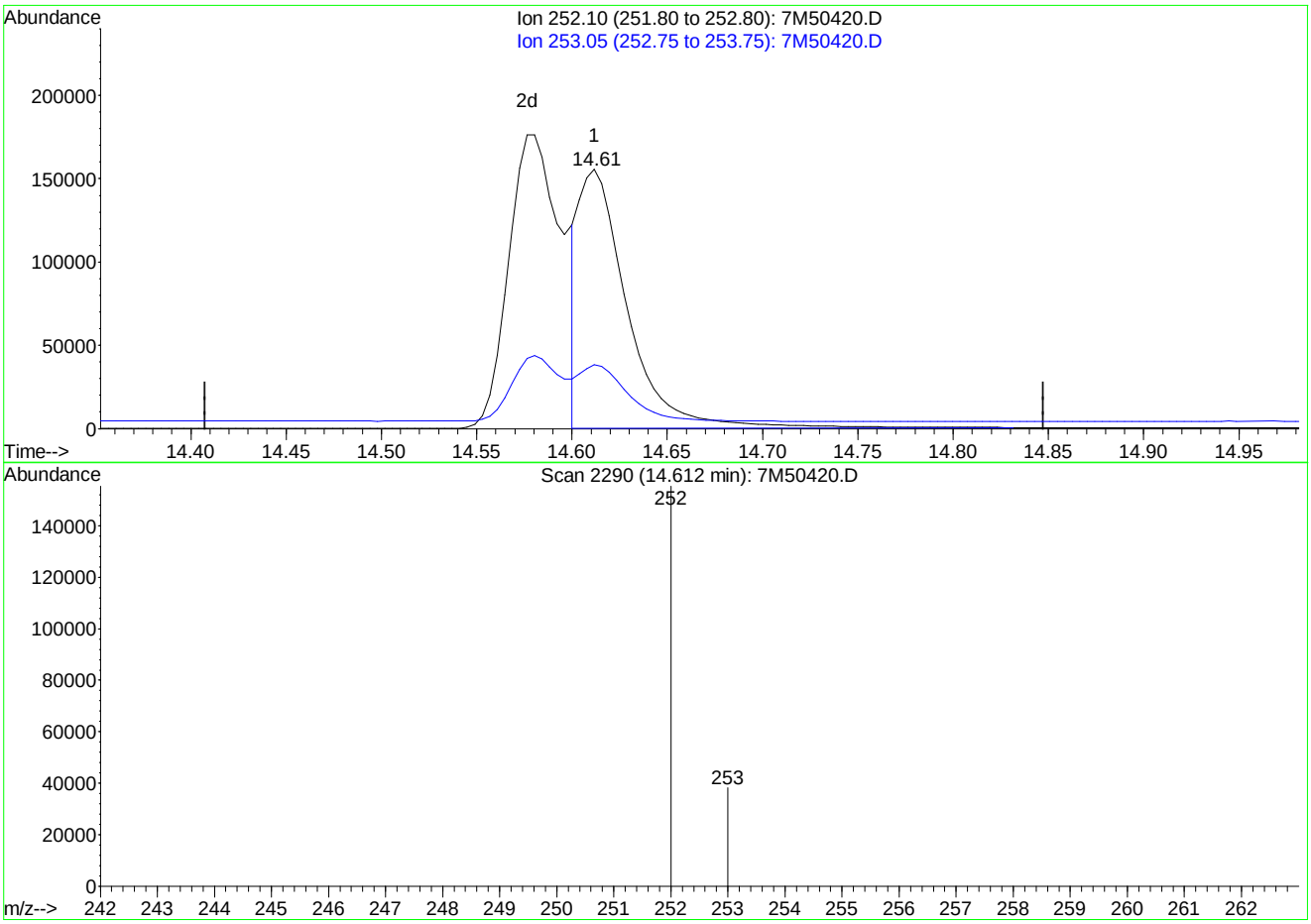
Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50420.D Vial: 5
Acq On : 11 Feb 2011 2:52 pm Operator: CAA
Sample : WG356259-05 2.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:58 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:02:11 2011
Response via : Multiple Level Calibration



TIC: 7M50420.D

(22) Benzo[k]fluoranthene

14.61min 1.90ug/ml

response 276401

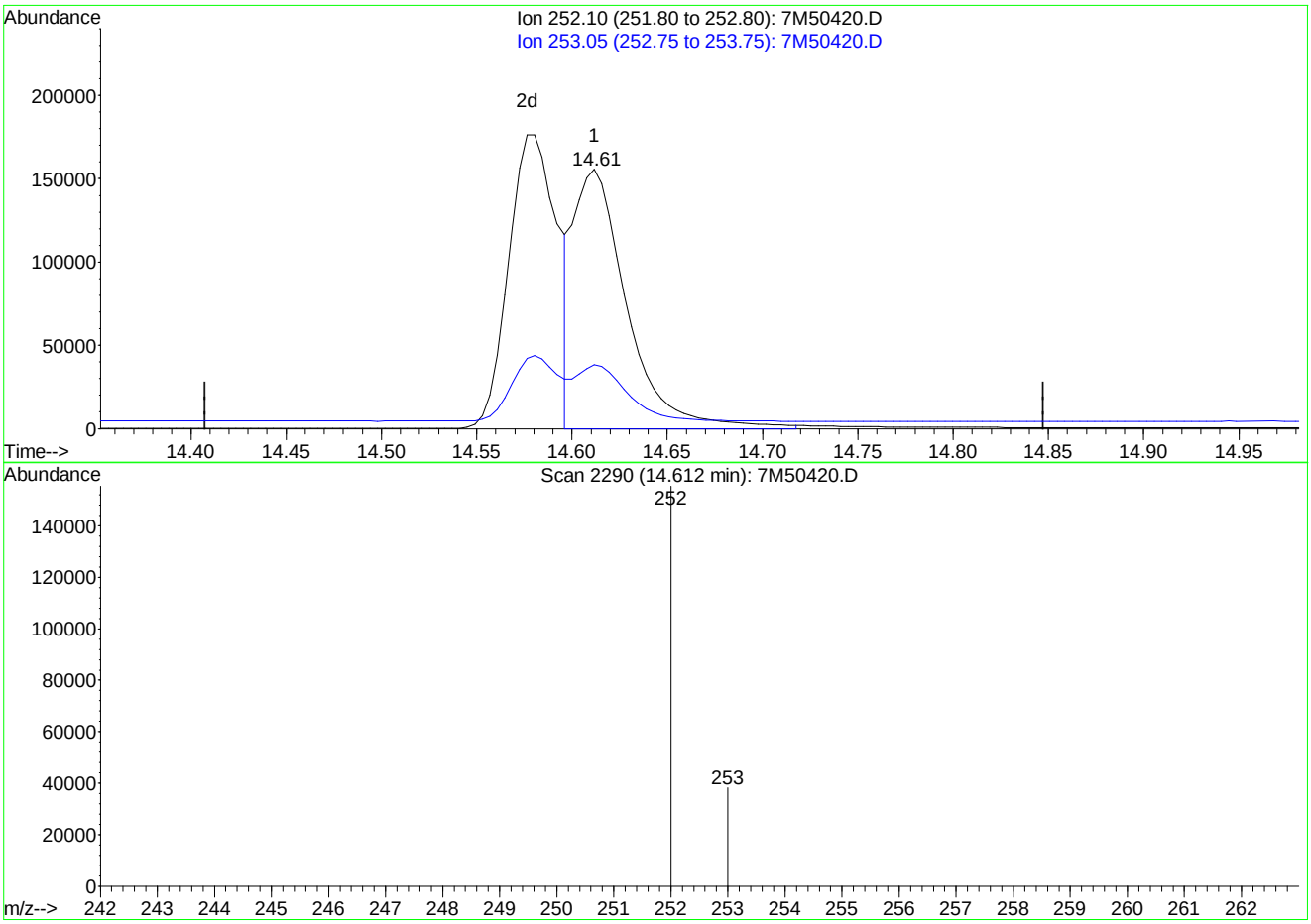
Ion	Exp%	Act%
252.10	100	100
253.05	19.00	21.79
0.00	0.00	0.00
0.00	0.00	0.00

7M50420.D SIMPAHL.M Mon Feb 14 07:02:29 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50420.D Vial: 5
Acq On : 11 Feb 2011 2:52 pm Operator: CAA
Sample : WG356259-05 2.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:02 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:02:11 2011
Response via : Multiple Level Calibration



TIC: 7M50420.D

(22) Benzo[k]fluoranthene

14.61min 2.09ug/ml mint

response 304693

Ion	Exp%	Act%
252.10	100	100
253.05	19.00	19.76
0.00	0.00	0.00
0.00	0.00	0.00

7M50420.D SIMPAHL.M Mon Feb 14 07:02:33 2011

Analyst: 02/14/2011 08:30 Supervisor: 02/14/2011 10:33

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50421.D Vial: 6
Acq On : 11 Feb 2011 3:19 pm Operator: CAA
Sample : WG356259-06 0.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 06:58:29 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:58:23 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

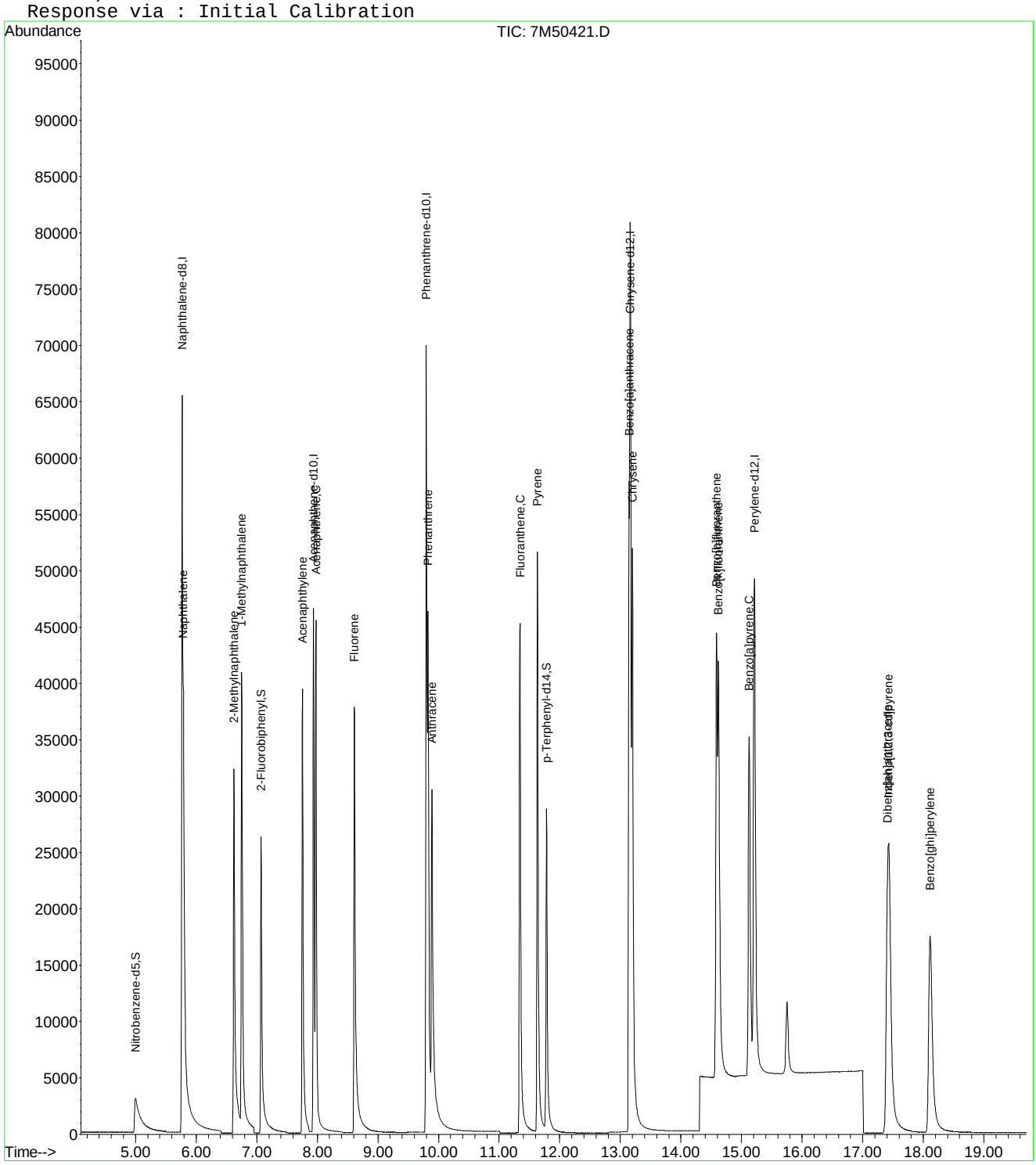
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.77	136	101464	1.00	ug/ml	0.00
6) Acenaphthene-d10	7.94	164	59562	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.80	188	106498	1.00	ug/ml	0.00
15) Chrysene-d12	13.17	240	116721	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	107679	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.00	82	13384m	0.4614	ug/ml	0.03
Spiked Amount 2.500	Range 35 - 114		Recovery = 18.40%#			
7) 2-Fluorobiphenyl	7.07	172	35789	0.5436	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 21.60%#			
17) p-Terphenyl-d14	11.78	244	40723	0.5189	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 20.80%#			
Target Compounds						Qvalue
3) Naphthalene	5.79	128	50003	0.5117	ug/ml	100
4) 2-Methylnaphthalene	6.62	142	32933	0.5401	ug/ml	99
5) 1-Methylnaphthalene	6.75	142	33214	0.5302	ug/ml	100
8) Acenaphthylene	7.76	152	56109	0.5280	ug/ml	99
9) Acenaphthene	7.98	154	32328	0.5088	ug/ml	100
10) Fluorene	8.61	166	37294	0.5320	ug/ml	100
12) Phenanthrene	9.83	178	53542	0.5042	ug/ml	100
13) Anthracene	9.89	178	48521	0.5029	ug/ml	100
14) Fluoranthene	11.34	202	64057	0.5146	ug/ml	100
16) Pyrene	11.63	202	74501	0.4778	ug/ml	99
18) Benzo[a]anthracene	13.14	228	60009	0.4722	ug/ml	98
19) Chrysene	13.20	228	64204	0.4861	ug/ml	99
21) Benzo[b]fluoranthene	14.58	252	59690	0.5167	ug/ml	99
22) Benzo[k]fluoranthene	14.62	252	69184m	0.4964	ug/ml	
23) Benzo[a]pyrene	15.13	252	60683	0.4888	ug/ml	100
24) Indeno[1,2,3-cd]pyrene	17.44	276	75204	0.5526	ug/ml	100
25) Dibenz[ah]anthracene	17.41	278	61722	0.5535	ug/ml	100
26) Benzo[ghi]perylene	18.12	276	62767	0.5467	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50421.D Vial: 6
Acq On : 11 Feb 2011 3:19 pm Operator: CAA
Sample : WG356259-06 0.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:00 2011 Quant Results File: SIMPAHL.RES

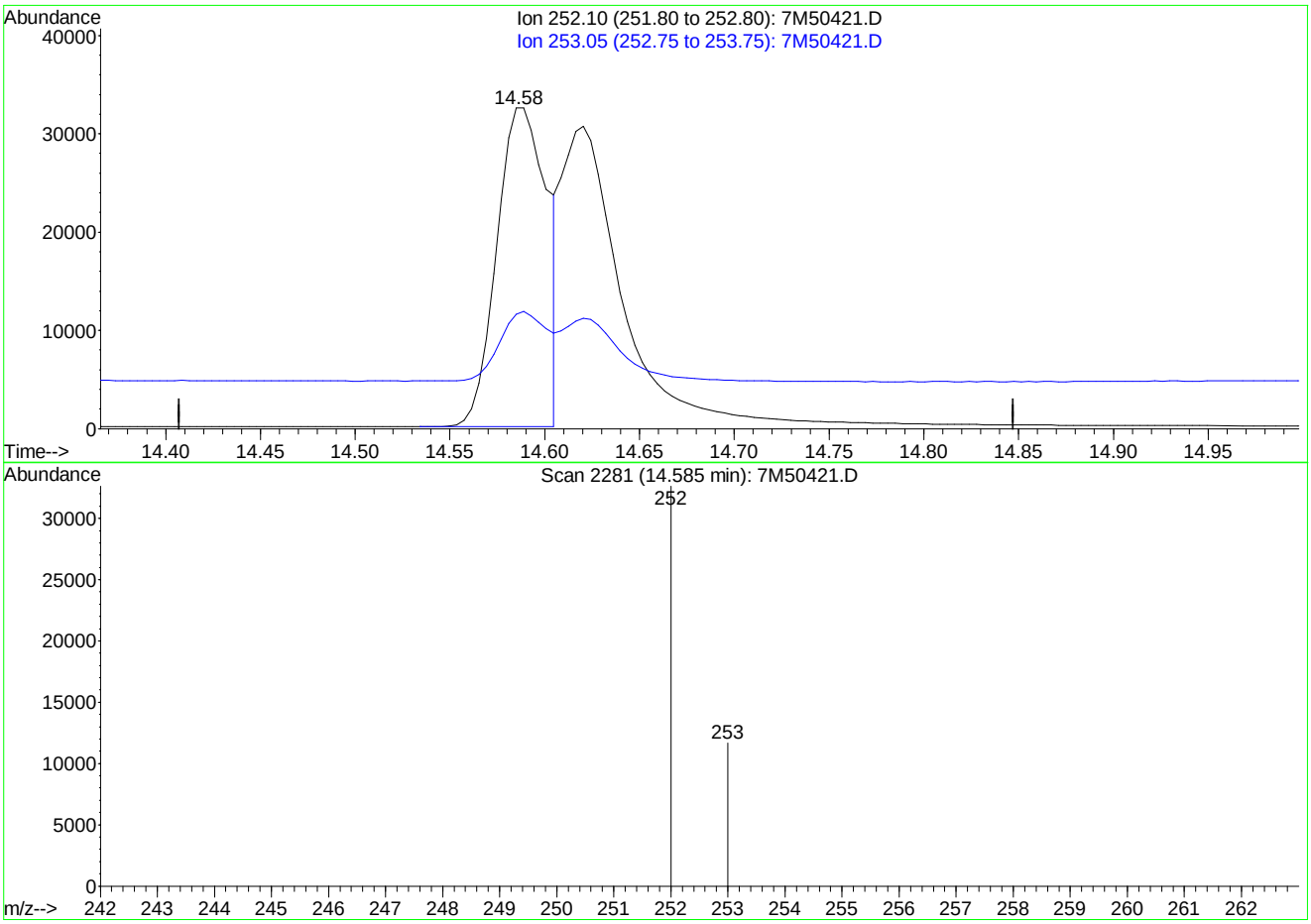
Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50421.D Vial: 6
Acq On : 11 Feb 2011 3:19 pm Operator: CAA
Sample : WG356259-06 0.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:58 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:58:23 2011
Response via : Multiple Level Calibration



TIC: 7M50421.D

(22) Benzo[k]fluoranthene

14.58min 0.43ug/ml

response 59690

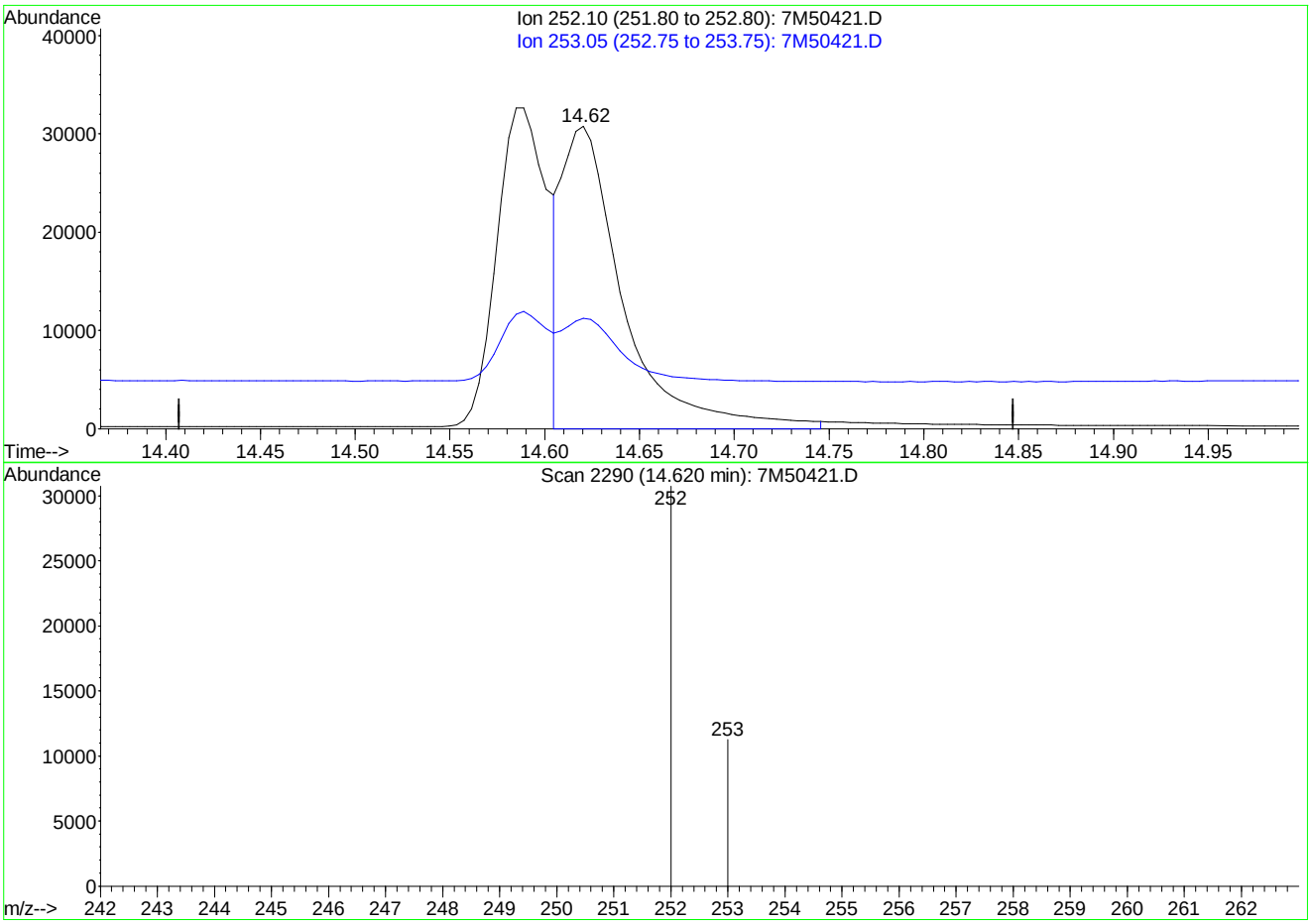
Ion	Exp%	Act%
252.10	100	100
253.05	19.00	20.55
0.00	0.00	0.00
0.00	0.00	0.00

7M50421.D SIMPAHL.M Mon Feb 14 06:58:35 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50421.D Vial: 6
Acq On : 11 Feb 2011 3:19 pm Operator: CAA
Sample : WG356259-06 0.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:58 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:58:23 2011
Response via : Multiple Level Calibration



TIC: 7M50421.D

(22) Benzo[k]fluoranthene

14.62min 0.50ug/ml mint

response 69184

Ion	Exp%	Act%
252.10	100	100
253.05	19.00	17.73
0.00	0.00	0.00
0.00	0.00	0.00

7M50421.D SIMPAHL.M Mon Feb 14 06:58:40 2011

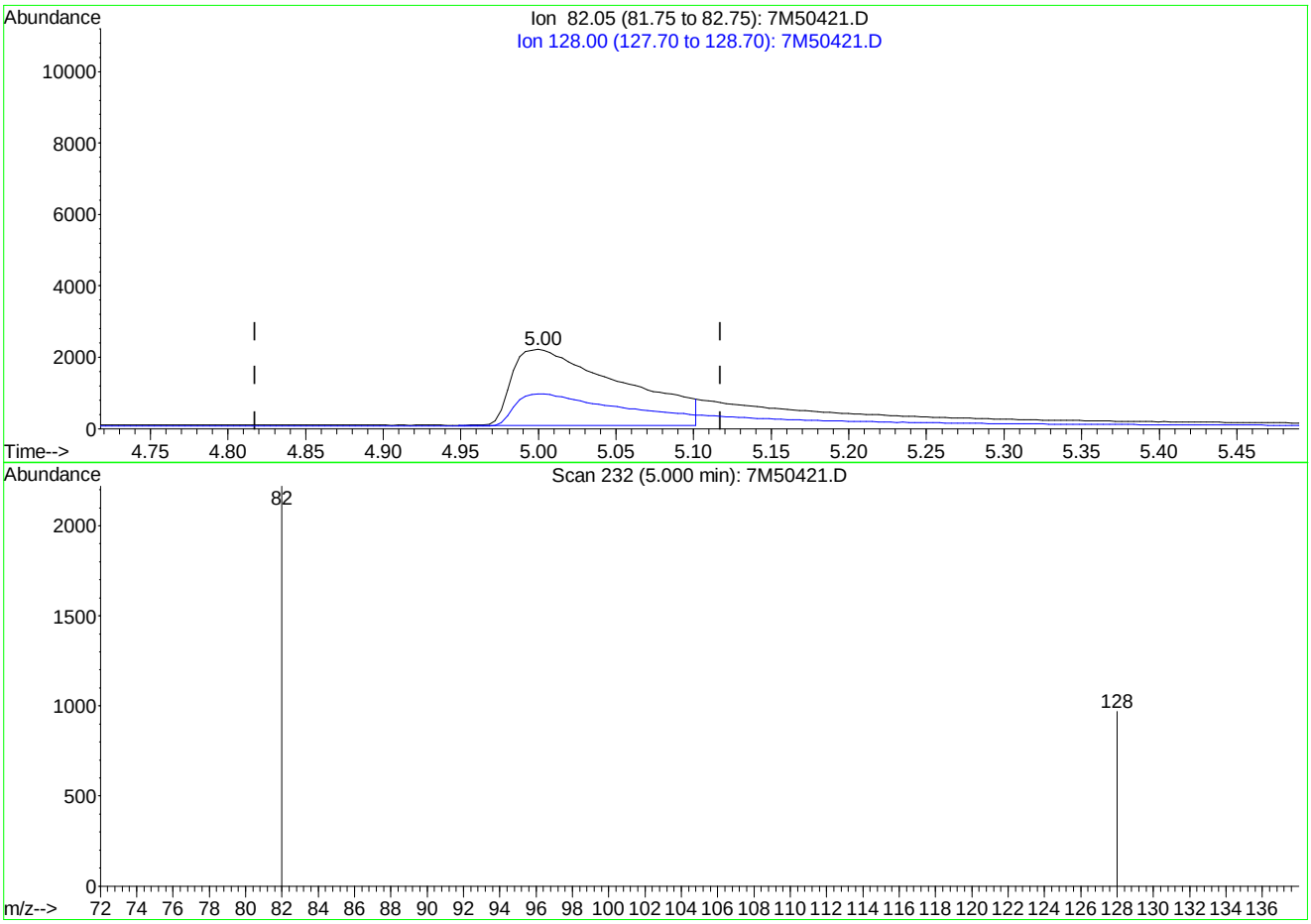
Analyst: 02/14/2011 08:30 Supervisor: 02/14/2011 10:33

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50421.D Vial: 6
Acq On : 11 Feb 2011 3:19 pm Operator: CAA
Sample : WG356259-06 0.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:58 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:00:10 2011
Response via : Multiple Level Calibration



TIC: 7M50421.D

(2) Nitrobenzene-d5 (S)

5.00min 0.36ug/ml

response 10558

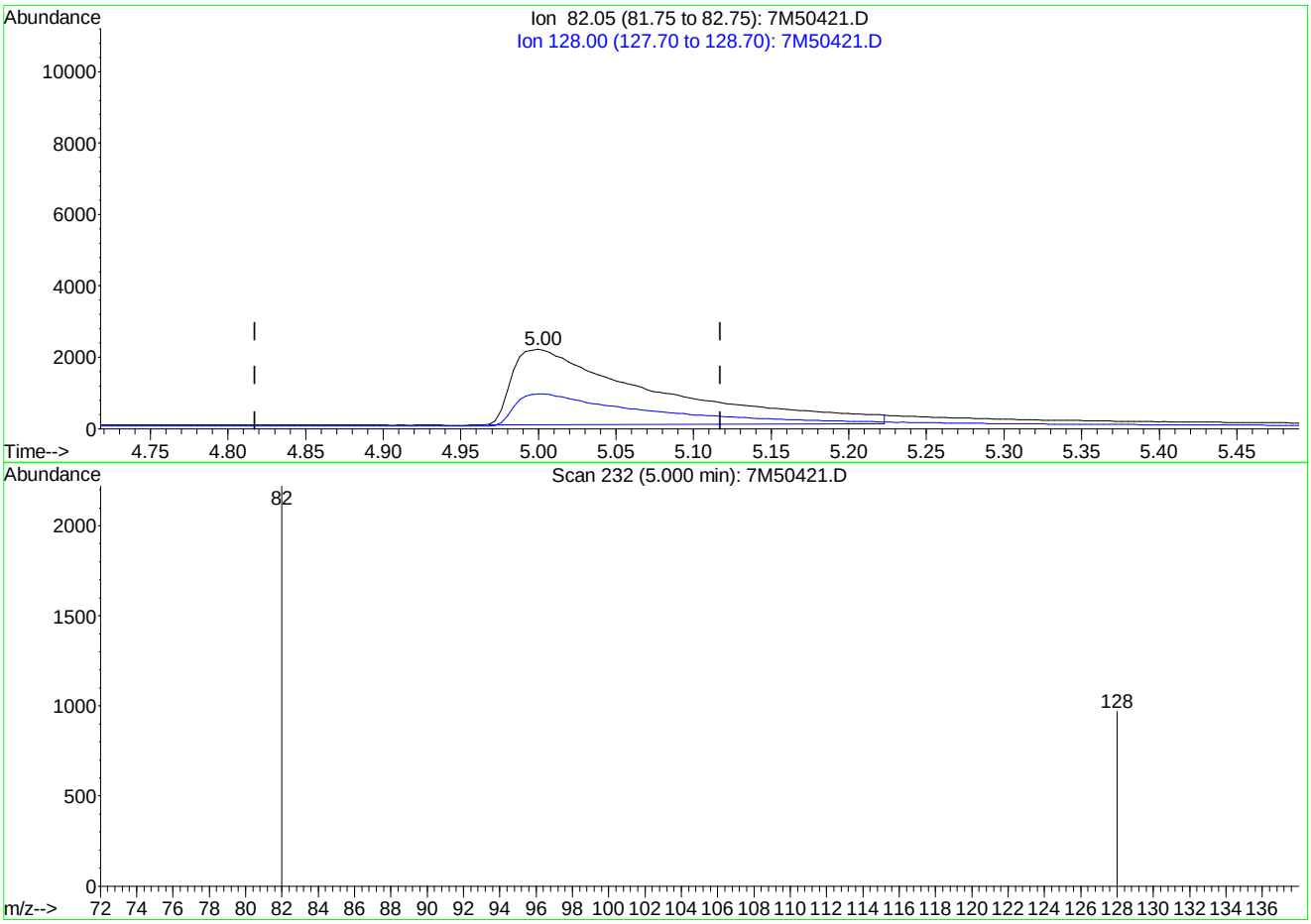
Ion	Exp%	Act%
82.05	100	100
128.00	41.60	42.28
0.00	0.00	0.00
0.00	0.00	0.00

7M50421.D SIMPAHL.M Mon Feb 14 07:00:24 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50421.D Vial: 6
Acq On : 11 Feb 2011 3:19 pm Operator: CAA
Sample : WG356259-06 0.5ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:00 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:00:10 2011
Response via : Multiple Level Calibration



TIC: 7M50421.D

(2) Nitrobenzene-d5 (S)

5.00min 0.46ug/ml mint

response 13384

Ion	Exp%	Act%
82.05	100	100
128.00	41.60	33.35
0.00	0.00	0.00
0.00	0.00	0.00

7M50421.D SIMPAHL.M Mon Feb 14 07:00:32 2011

Analyst: 02/14/2011 08:30 Supervisor: 02/14/2011 10:33

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50422.D Vial: 7
Acq On : 11 Feb 2011 3:46 pm Operator: CAA
Sample : WG356259-07 0.1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 06:58:50 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:58:46 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

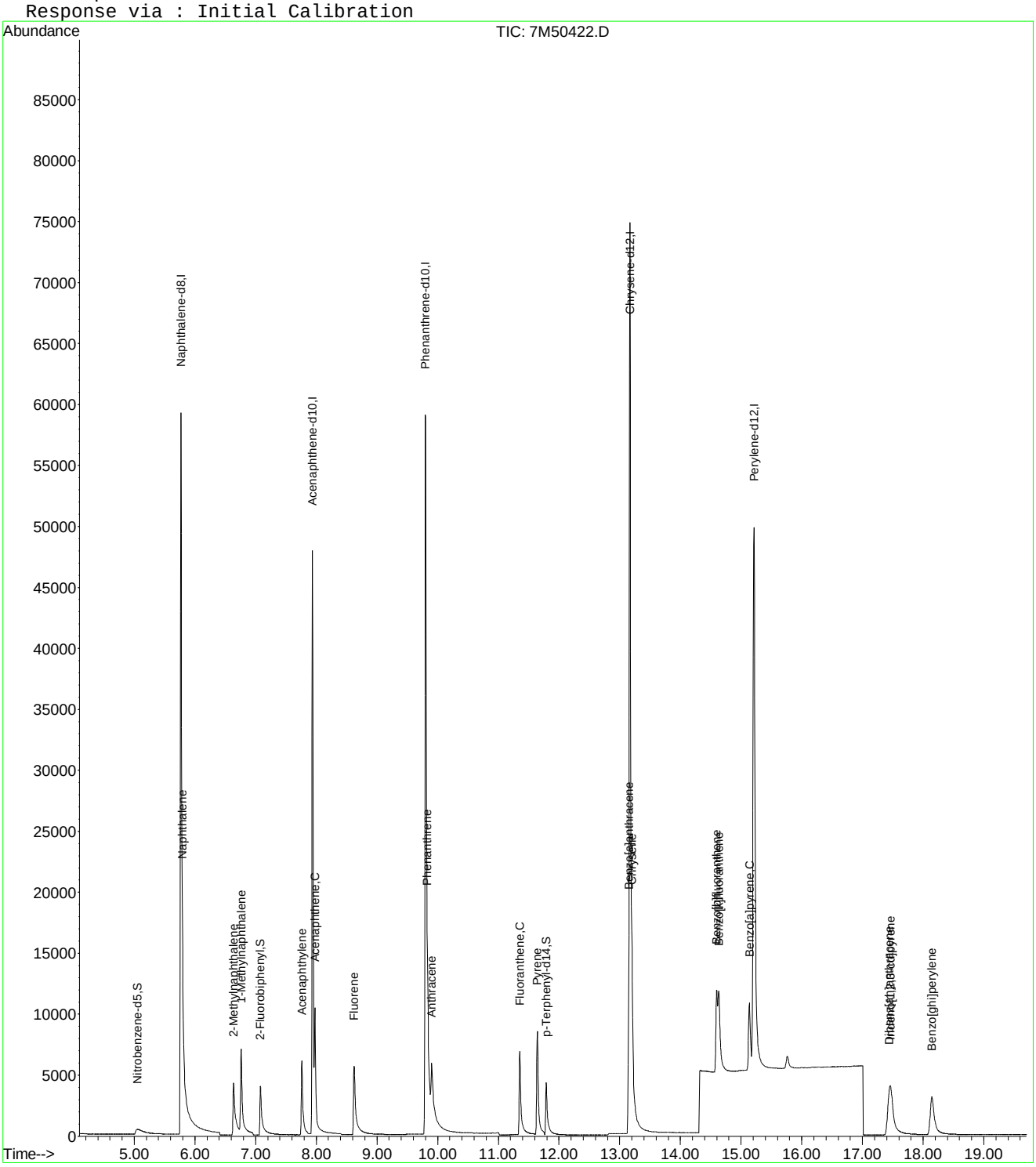
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.77	136	102811	1.00	ug/ml	0.00
6) Acenaphthene-d10	7.94	164	63480	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.80	188	108581	1.00	ug/ml	0.00
15) Chrysene-d12	13.17	240	121339	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	109867	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.05	82	2496m	0.0887	ug/ml	0.08
Spiked Amount 2.500	Range 35 - 114		Recovery =	3.60%#		
7) 2-Fluorobiphenyl	7.08	172	7167	0.1012	ug/ml	0.01
Spiked Amount 2.500	Range 43 - 116		Recovery =	4.00%#		
17) p-Terphenyl-d14	11.79	244	8436	0.1028	ug/ml	0.01
Spiked Amount 2.500	Range 33 - 141		Recovery =	4.00%#		
Target Compounds						Qvalue
3) Naphthalene	5.80	128	10169	0.1034	ug/ml	100
4) 2-Methylnaphthalene	6.64	142	6099	0.0986	ug/ml	100
5) 1-Methylnaphthalene	6.76	142	7127	0.1125	ug/ml	100
8) Acenaphthylene	7.76	152	11137	0.0980	ug/ml	94
9) Acenaphthene	7.98	154	6630	0.0997	ug/ml	95
10) Fluorene	8.63	166	7243	0.0968	ug/ml	100
12) Phenanthrene	9.83	178	10740	0.1000	ug/ml	99
13) Anthracene	9.90	178	8205	0.0853	ug/ml	99
14) Fluoranthene	11.35	202	12309	0.0980	ug/ml	100
16) Pyrene	11.64	202	15222	0.0962	ug/ml	93
18) Benzo[a]anthracene	13.14	228	11126	0.0849	ug/ml	98
19) Chrysene	13.20	228	13806	0.1024	ug/ml	98
21) Benzo[b]fluoranthene	14.60	252	10058	0.0854	ug/ml	95
22) Benzo[k]fluoranthene	14.63	252	15098m	0.1088	ug/ml	
23) Benzo[a]pyrene	15.14	252	11949	0.0953	ug/ml	89
24) Indeno[1,2,3-cd]pyrene	17.47	276	14457	0.1022	ug/ml	100
25) Dibenz[ah]anthracene	17.43	278	11636	0.1000	ug/ml	100
26) Benzo[ghi]perylene	18.14	276	12114	0.1015	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M50422.D SIMPAHL.M Mon Feb 14 07:16:33 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50422.D Vial: 7
Acq On : 11 Feb 2011 3:46 pm Operator: CAA
Sample : WG356259-07 0.1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:00 2011 Quant Results File: SIMPAHL.RES

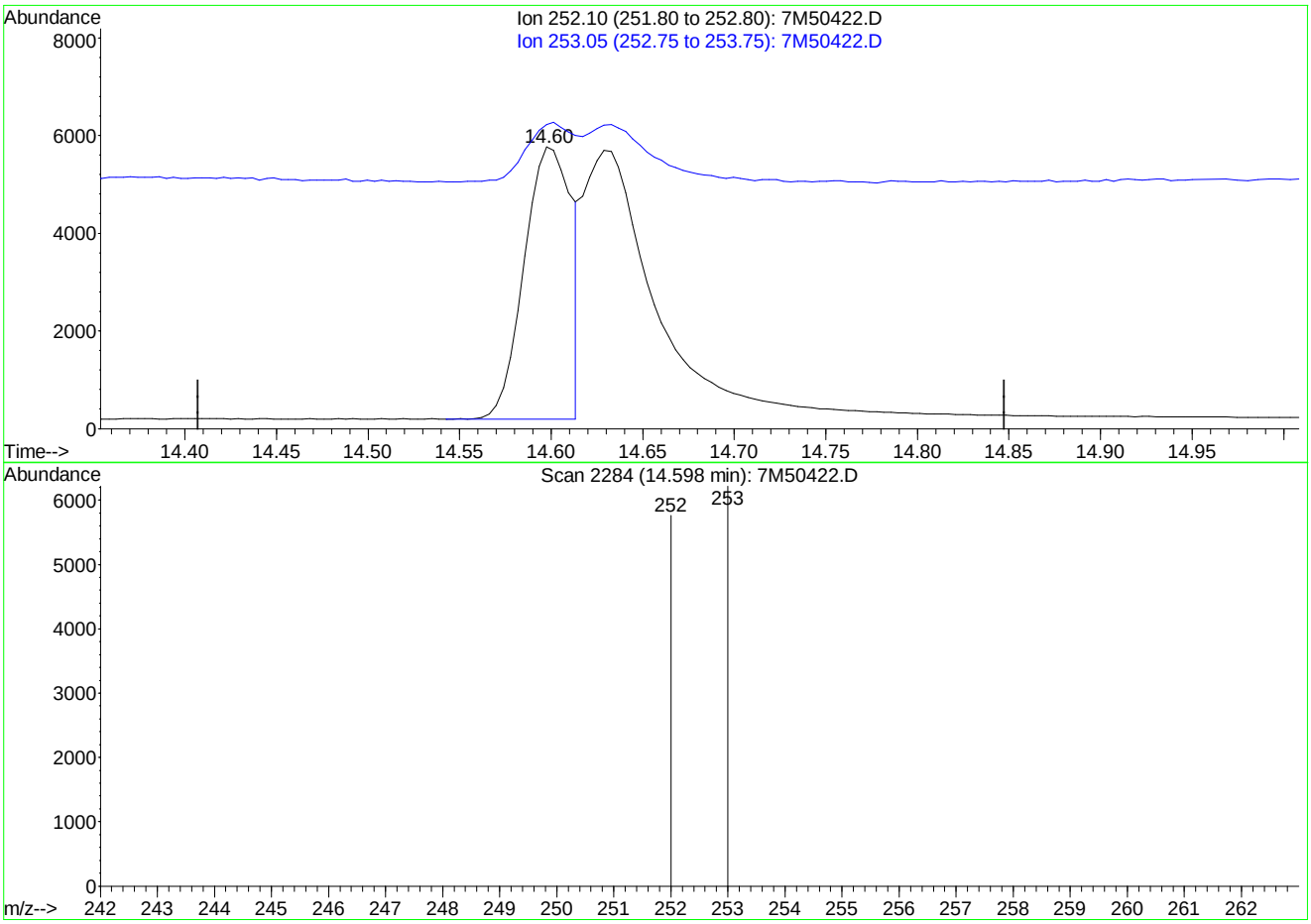
Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50422.D Vial: 7
Acq On : 11 Feb 2011 3:46 pm Operator: CAA
Sample : WG356259-07 0.1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:58 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:58:46 2011
Response via : Multiple Level Calibration



TIC: 7M50422.D

(22) Benzo[k]fluoranthene

14.60min 0.07ug/ml

response 10058

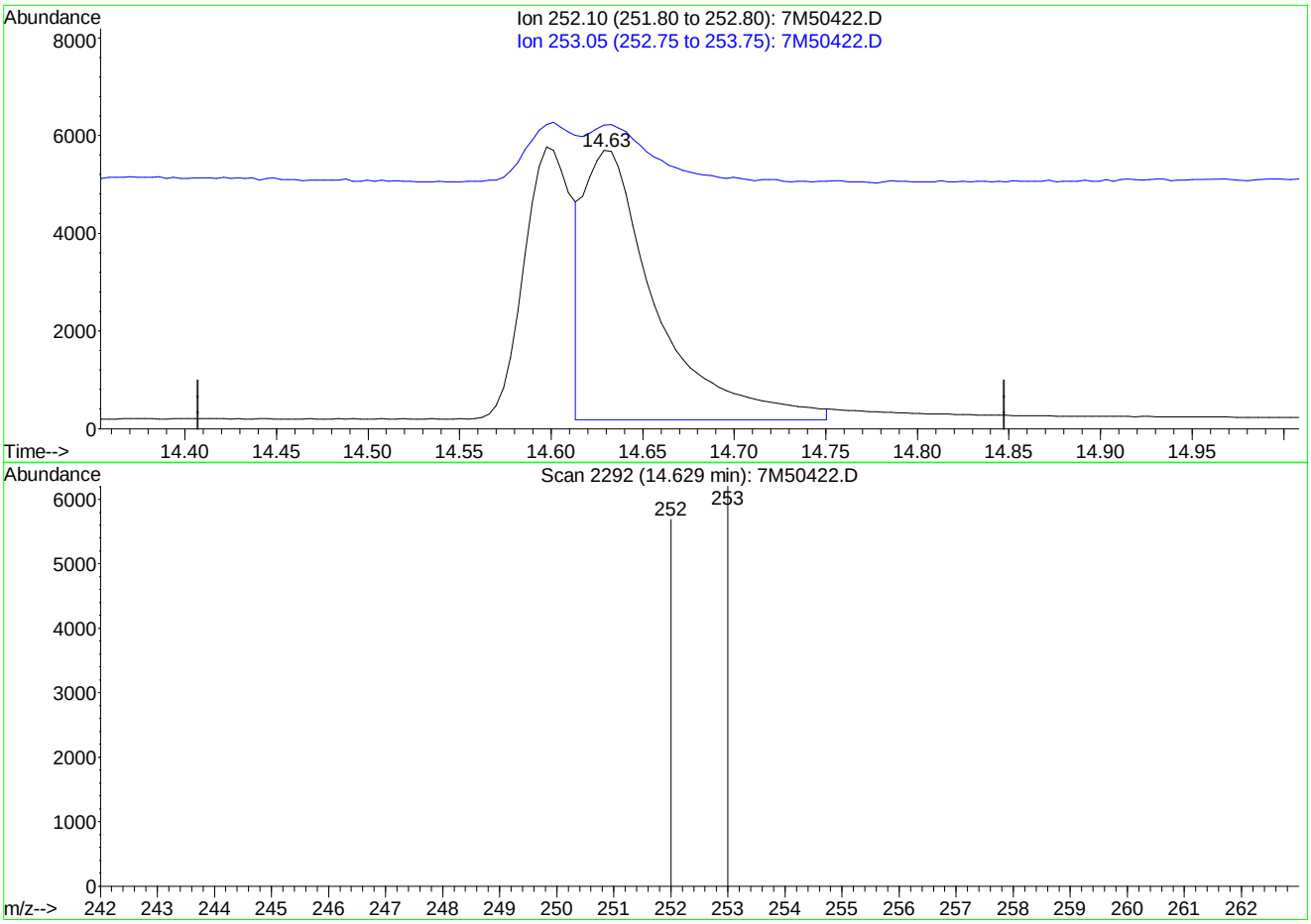
Ion	Exp%	Act%
252.10	100	100
253.05	19.00	23.12
0.00	0.00	0.00
0.00	0.00	0.00

7M50422.D SIMPAHL.M Mon Feb 14 06:58:56 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50422.D Vial: 7
Acq On : 11 Feb 2011 3:46 pm Operator: CAA
Sample : WG356259-07 0.1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:59 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:58:46 2011
Response via : Multiple Level Calibration



TIC: 7M50422.D

(22) Benzo[k]fluoranthene

14.63min 0.11ug/ml mint

response 15098

Ion	Exp%	Act%
252.10	100	100
253.05	19.00	15.40
0.00	0.00	0.00
0.00	0.00	0.00

7M50422.D SIMPAHL.M Mon Feb 14 06:59:07 2011

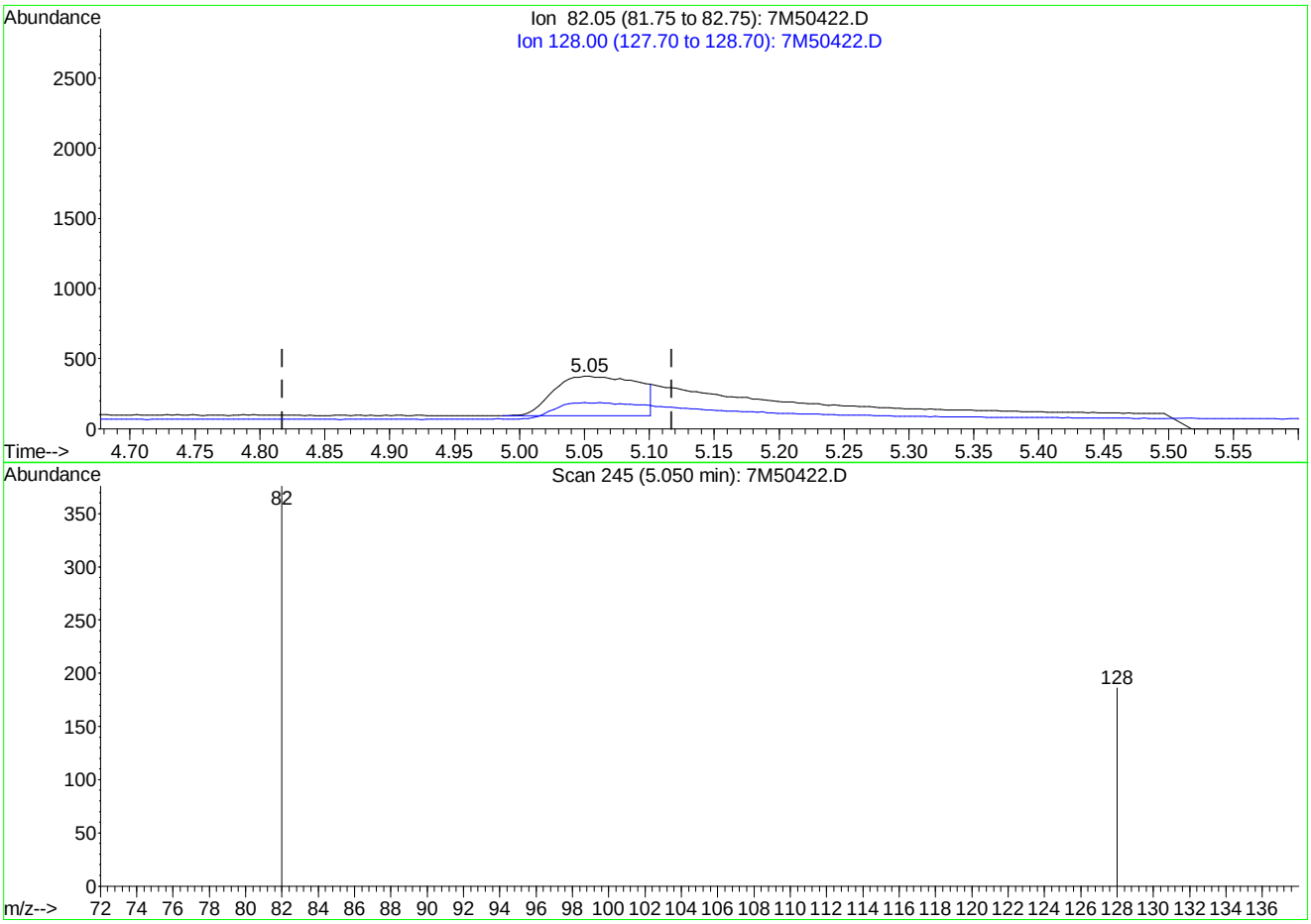
Analyst: 02/14/2011 08:30 Supervisor: 02/14/2011 10:33

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50422.D Vial: 7
Acq On : 11 Feb 2011 3:46 pm Operator: CAA
Sample : WG356259-07 0.1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:59 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:59:36 2011
Response via : Multiple Level Calibration



TIC: 7M50422.D

(2) Nitrobenzene-d5 (S)

5.05min 0.05ug/ml

response 1278

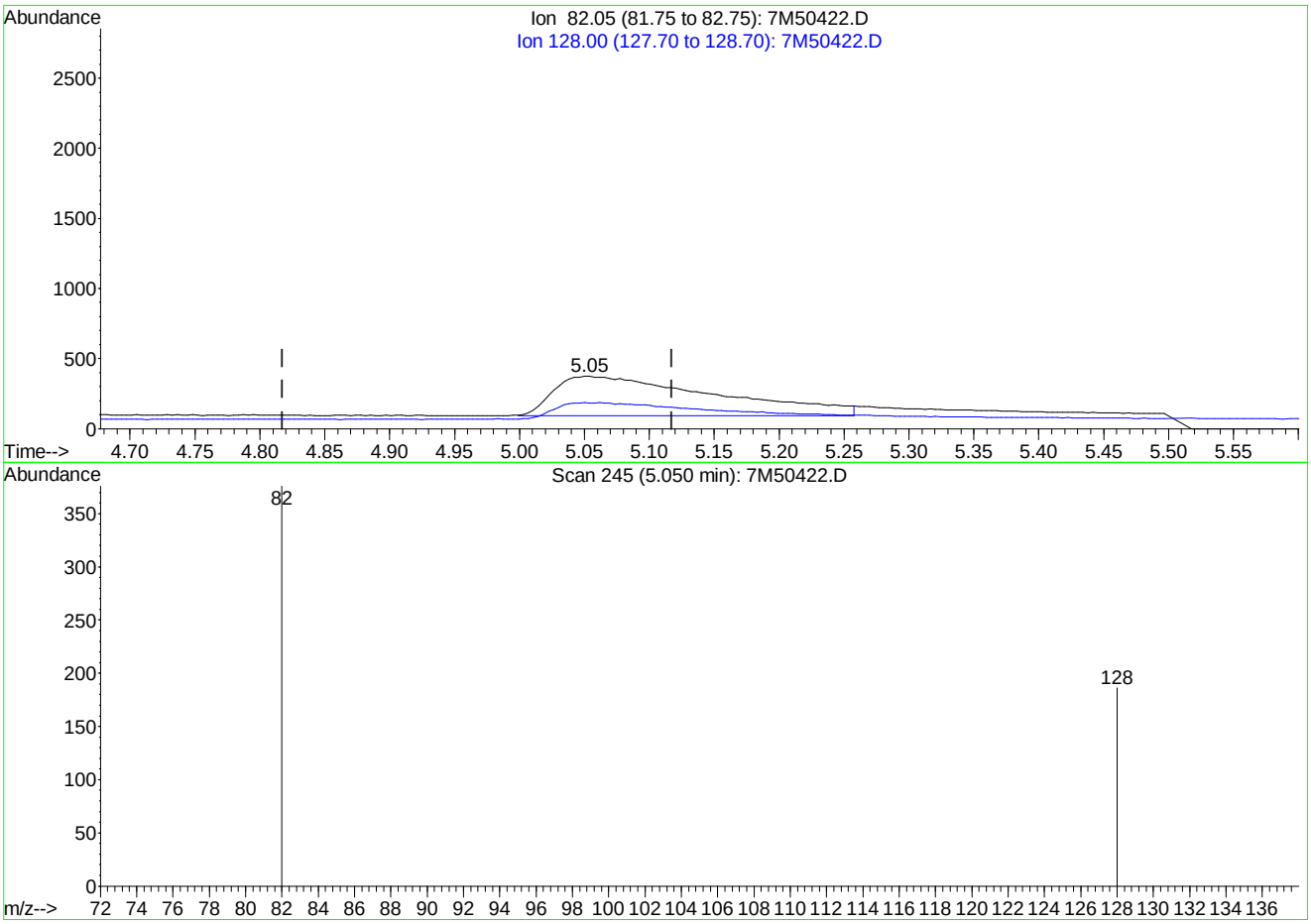
Ion	Exp%	Act%
82.05	100	100
128.00	41.60	42.49
0.00	0.00	0.00
0.00	0.00	0.00

7M50422.D SIMPAHL.M Mon Feb 14 06:59:56 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50422.D Vial: 7
Acq On : 11 Feb 2011 3:46 pm Operator: CAA
Sample : WG356259-07 0.1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:00 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:59:36 2011
Response via : Multiple Level Calibration



TIC: 7M50422.D

(2) Nitrobenzene-d5 (S)

5.05min 0.09ug/ml mint

response 2496

Ion	Exp%	Act%
82.05	100	100
128.00	41.60	21.75#
0.00	0.00	0.00
0.00	0.00	0.00

7M50422.D SIMPAHL.M Mon Feb 14 07:00:04 2011

Analyst: 02/14/2011 08:30 Supervisor: 02/14/2011 10:33

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50423.D Vial: 8
Acq On : 11 Feb 2011 4:13 pm Operator: CAA
Sample : WG356259-08 0.05ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 06:59:17 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:59:12 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

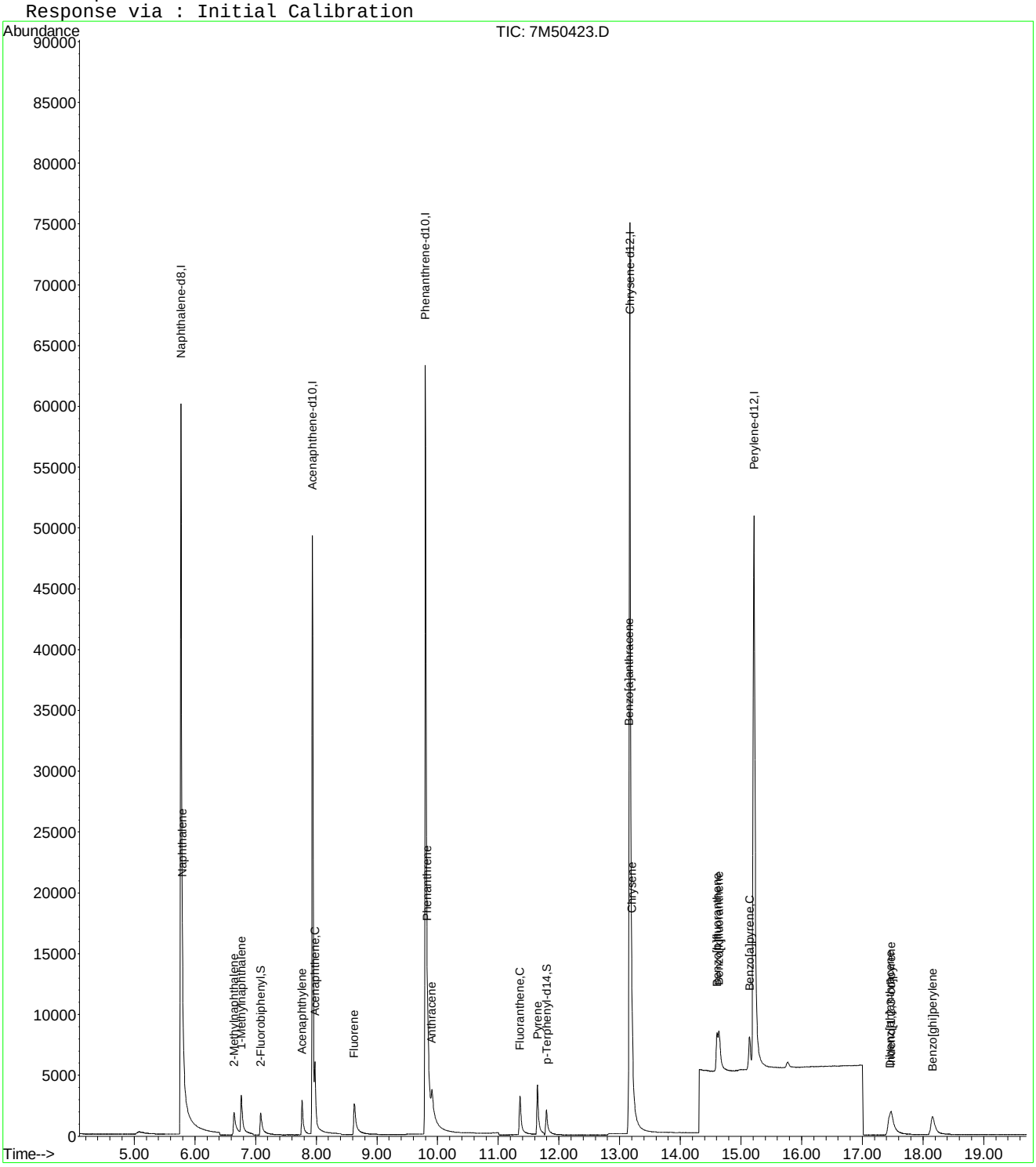
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.77	136	105646	1.00	ug/ml	0.00
6) Acenaphthene-d10	7.94	164	65652	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.80	188	111507	1.00	ug/ml	0.00
15) Chrysene-d12	13.17	240	125647	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	112831	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.07	82	332	0.0124	ug/ml	0.11
Spiked Amount 2.500	Range 35 - 114		Recovery =	0.40%#		
7) 2-Fluorobiphenyl	7.09	172	3653	0.0492	ug/ml	0.02
Spiked Amount 2.500	Range 43 - 116		Recovery =	2.00%#		
17) p-Terphenyl-d14	11.79	244	4607	0.0542	ug/ml	0.02
Spiked Amount 2.500	Range 33 - 141		Recovery =	2.00%#		
Target Compounds						Qvalue
3) Naphthalene	5.80	128	5272	0.0525	ug/ml	100
4) 2-Methylnaphthalene	6.64	142	3050	0.0478	ug/ml	98
5) 1-Methylnaphthalene	6.77	142	3660	0.0565	ug/ml	100
8) Acenaphthylene	7.77	152	5815	0.0492	ug/ml	88
9) Acenaphthene	7.98	154	3618	0.0532	ug/ml	97
10) Fluorene	8.63	166	3665	0.0472	ug/ml	100
12) Phenanthrene	9.83	178	5548	0.0508	ug/ml	100
13) Anthracene	9.91	178	3995	0.0413	ug/ml	99
14) Fluoranthene	11.36	202	6276	0.0494	ug/ml	100
16) Pyrene	11.65	202	8048	0.0504	ug/ml	85
18) Benzo[a]anthracene	13.15	228	5968	0.0446	ug/ml	99
19) Chrysene	13.20	228	7172	0.0521	ug/ml	100
21) Benzo[b]fluoranthene	14.61	252	4649	0.0386	ug/ml	89
22) Benzo[k]fluoranthene	14.64	252	8066m	0.0581	ug/ml	
23) Benzo[a]pyrene	15.14	252	5233	0.0411	ug/ml#	43
24) Indeno[1,2,3-cd]pyrene	17.48	276	7073	0.0476	ug/ml	100
25) Dibenz[ah]anthracene	17.44	278	5847	0.0475	ug/ml	100
26) Benzo[ghi]perylene	18.16	276	6096	0.0485	ug/ml	100

(#) = qualifier out of range (m) = manual integration
7M50423.D SIMPAHL.M Mon Feb 14 07:16:34 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50423.D Vial: 8
Acq On : 11 Feb 2011 4:13 pm Operator: CAA
Sample : WG356259-08 0.05ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:59 2011 Quant Results File: SIMPAHL.RES

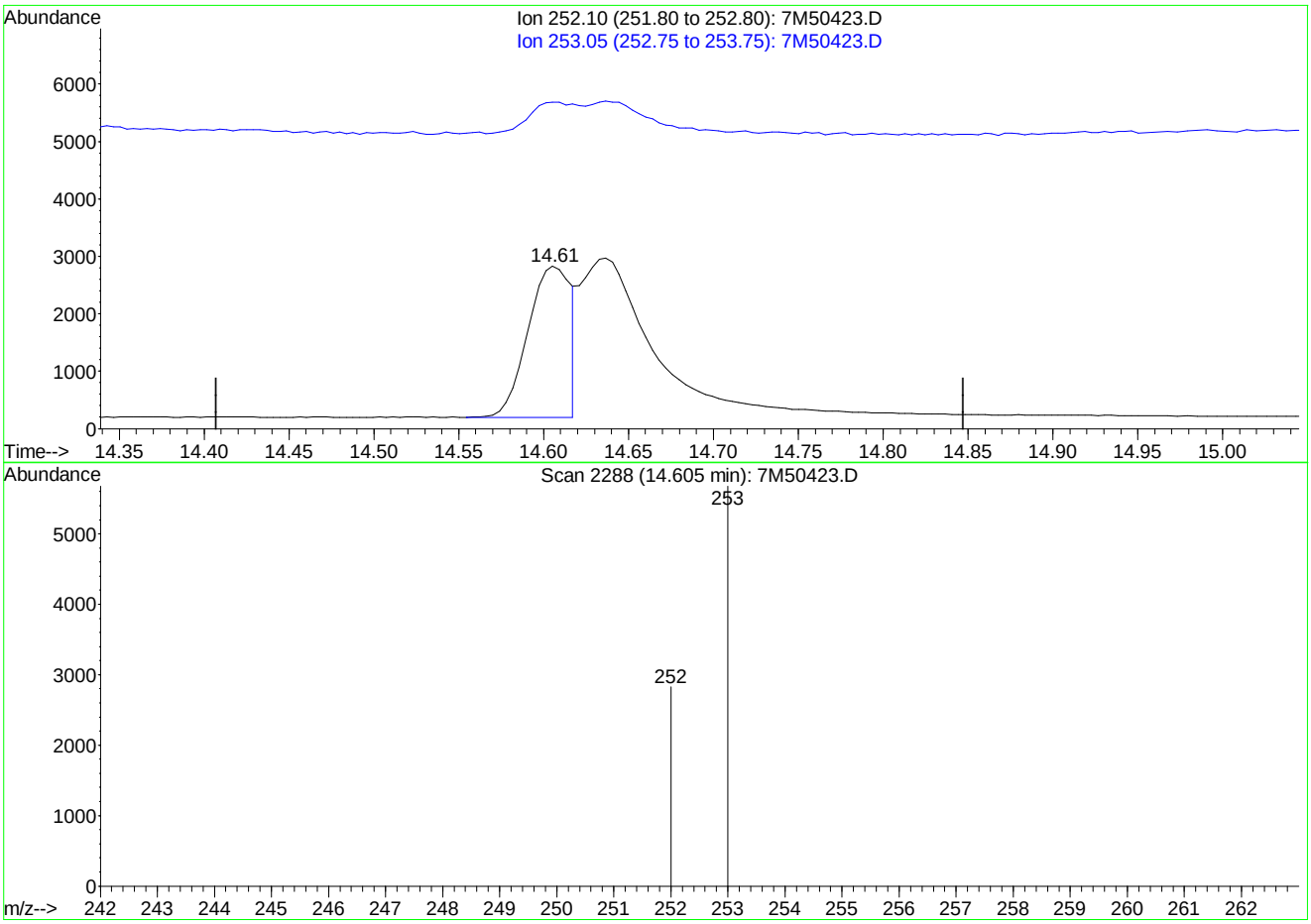
Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50423.D Vial: 8
Acq On : 11 Feb 2011 4:13 pm Operator: CAA
Sample : WG356259-08 0.05ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:59 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:59:12 2011
Response via : Multiple Level Calibration



TIC: 7M50423.D

(22) Benzo[k]fluoranthene

14.61min 0.03ug/ml

response 4649

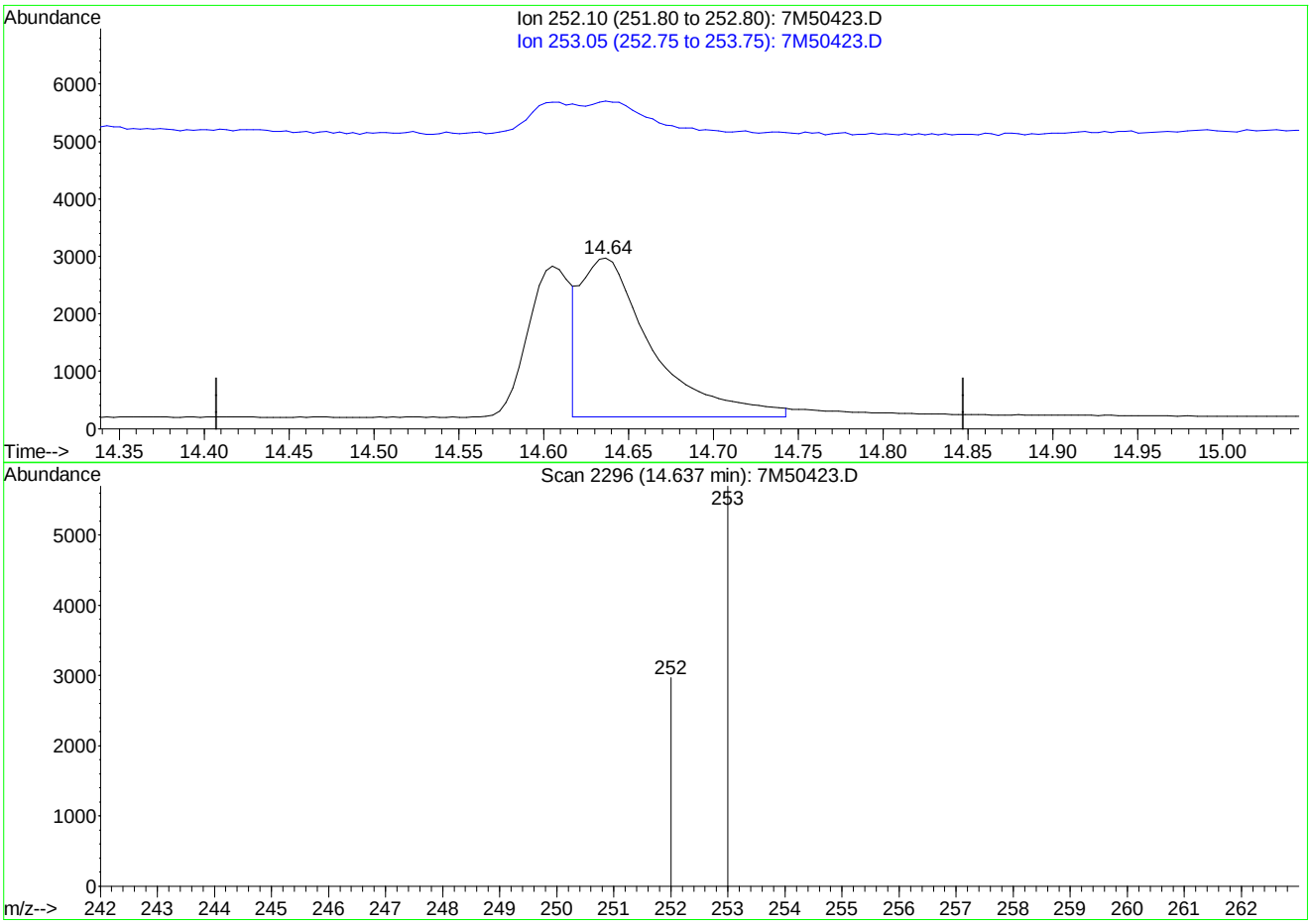
Ion	Exp%	Act%
252.10	100	100
253.05	19.00	25.90
0.00	0.00	0.00
0.00	0.00	0.00

7M50423.D SIMPAHL.M Mon Feb 14 06:59:23 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50423.D Vial: 8
Acq On : 11 Feb 2011 4:13 pm Operator: CAA
Sample : WG356259-08 0.05ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 6:59 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 06:59:12 2011
Response via : Multiple Level Calibration



TIC: 7M50423.D

(22) Benzo[k]fluoranthene

14.64min 0.06ug/ml mint

response 8066

Ion	Exp%	Act%
252.10	100	100
253.05	19.00	14.93
0.00	0.00	0.00
0.00	0.00	0.00

7M50423.D SIMPAHL.M Mon Feb 14 06:59:30 2011

Analyst: 02/14/2011 08:30 Supervisor: 02/14/2011 10:33

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50424.D Vial: 9
Acq On : 11 Feb 2011 4:41 pm Operator: CAA
Sample : WG356259-09 1ppm PAHL Alt Src STD Inst : HPMS7
Misc : 1,1 STD43326 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 07:03:24 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

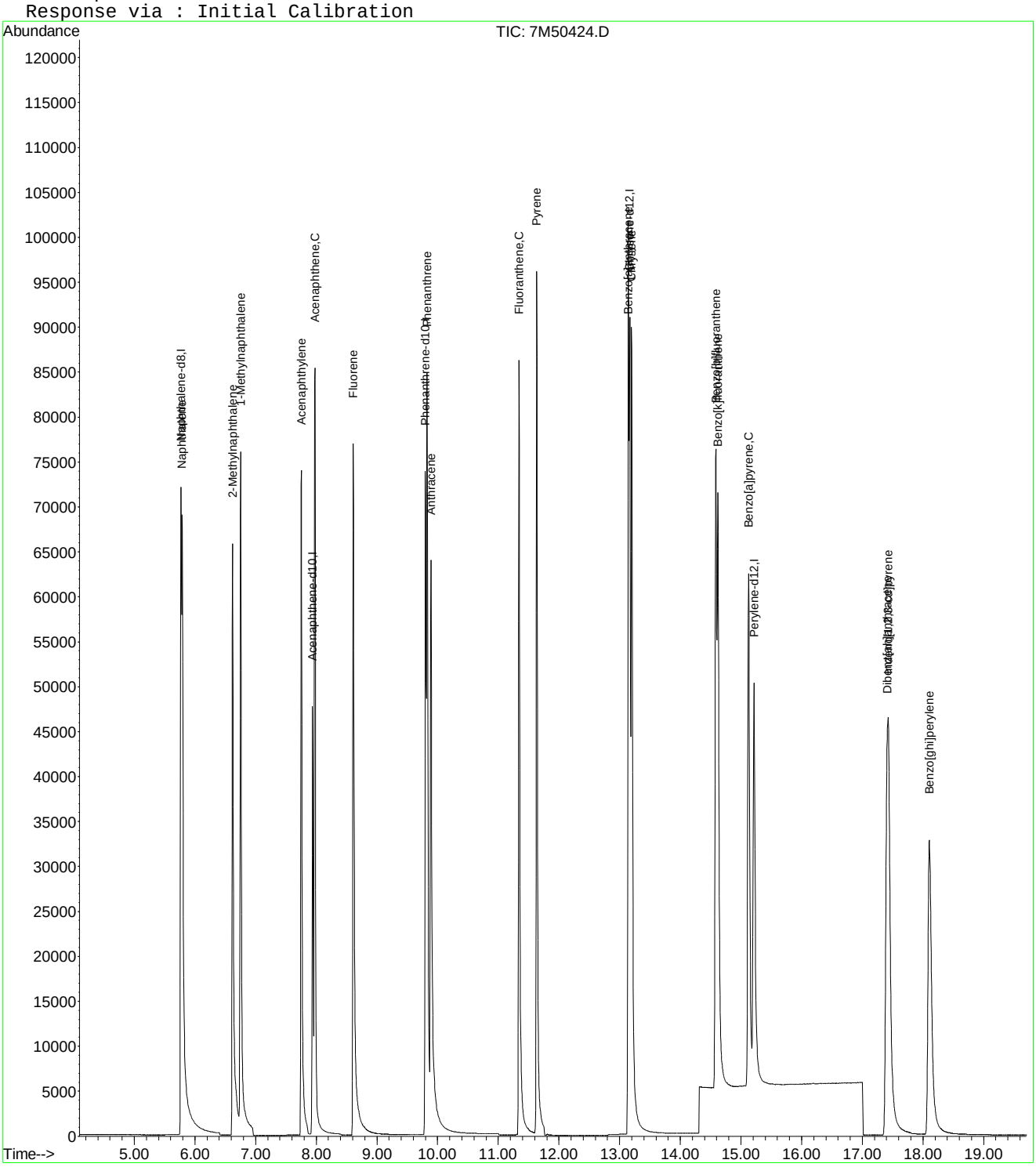
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.77	136	106884	1.00	ug/ml	0.00
6) Acenaphthene-d10	7.94	164	60630	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.80	188	109632	1.00	ug/ml	0.00
15) Chrysene-d12	13.17	240	117767	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	106726	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.96	82	1	0.0000	ug/ml	-0.01
Spiked Amount 2.500	Range 35 - 114		Recovery =	0.00%#		
7) 2-Fluorobiphenyl	6.96	172	39	0.0006	ug/ml	-0.10
Spiked Amount 2.500	Range 43 - 116		Recovery =	0.00%#		
17) p-Terphenyl-d14	11.80	244	694	0.0087	ug/ml	0.02
Spiked Amount 2.500	Range 33 - 141		Recovery =	0.40%#		
Target Compounds						Qvalue
3) Naphthalene	5.79	128	96967	0.9604	ug/ml	100
4) 2-Methylnaphthalene	6.62	142	62322	0.9576	ug/ml	100
5) 1-Methylnaphthalene	6.75	142	58992	0.9013	ug/ml	100
8) Acenaphthylene	7.75	152	105745	0.9617	ug/ml	100
9) Acenaphthene	7.98	154	60134	0.9664	ug/ml	100
10) Fluorene	8.61	166	68752	0.9567	ug/ml	100
12) Phenanthrene	9.83	178	99816	0.9371	ug/ml	100
13) Anthracene	9.89	178	95578	1.0313	ug/ml	99
14) Fluoranthene	11.34	202	117004	0.9528	ug/ml	100
16) Pyrene	11.63	202	132170	0.9069	ug/ml	100
18) Benzo[a]anthracene	13.14	228	105419	0.8503	ug/ml	98
19) Chrysene	13.20	228	117951	0.9294	ug/ml	99
21) Benzo[b]fluoranthene	14.59	252	106204	0.9424	ug/ml	100
22) Benzo[k]fluoranthene	14.62	252	118356m	0.8949	ug/ml	
23) Benzo[a]pyrene	15.13	252	112767	0.9704	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	17.43	276	130339	0.9112	ug/ml	100
25) Dibenz[ah]anthracene	17.40	278	106707	0.8927	ug/ml	100
26) Benzo[ghi]perylene	18.11	276	112983	0.9282	ug/ml	100

(#) = qualifier out of range (m) = manual integration
7M50424.D SIMPAHL.M Mon Feb 14 07:16:49 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\021111\7M50424.D Vial: 9
Acq On : 11 Feb 2011 4:41 pm Operator: CAA
Sample : WG356259-09 1ppm PAHL Alt Src STD Inst : HPMS7
Misc : 1,1 STD43326 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:03 2011 Quant Results File: SIMPAHL.RES

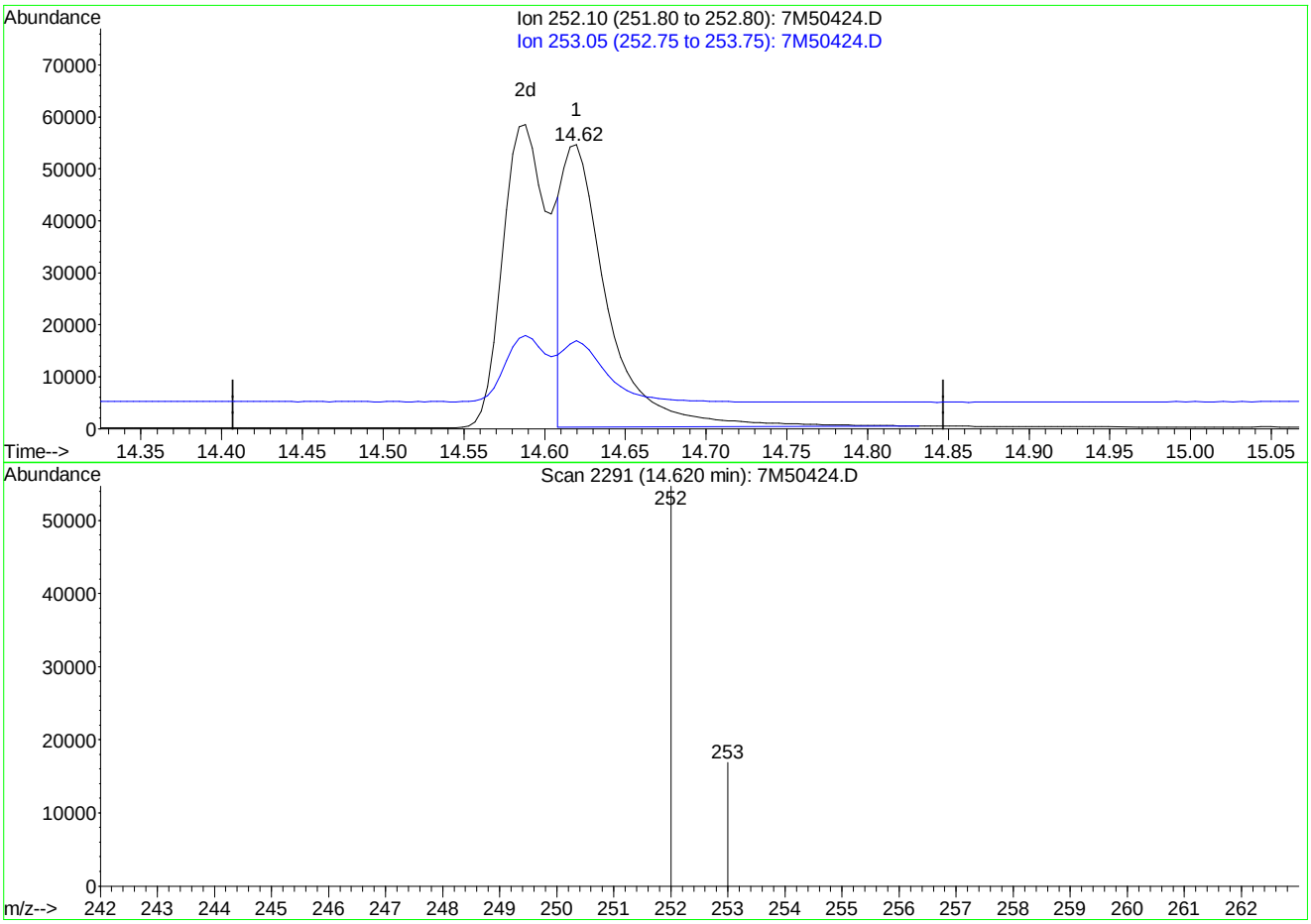
Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50424.D Vial: 9
Acq On : 11 Feb 2011 4:41 pm Operator: CAA
Sample : WG356259-09 1ppm PAHL Alt Src STD Inst : HPMS7
Misc : 1,1 STD43326 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Multiple Level Calibration



TIC: 7M50424.D

(22) Benzo[k]fluoranthene

14.62min 0.80ug/ml

response 105191

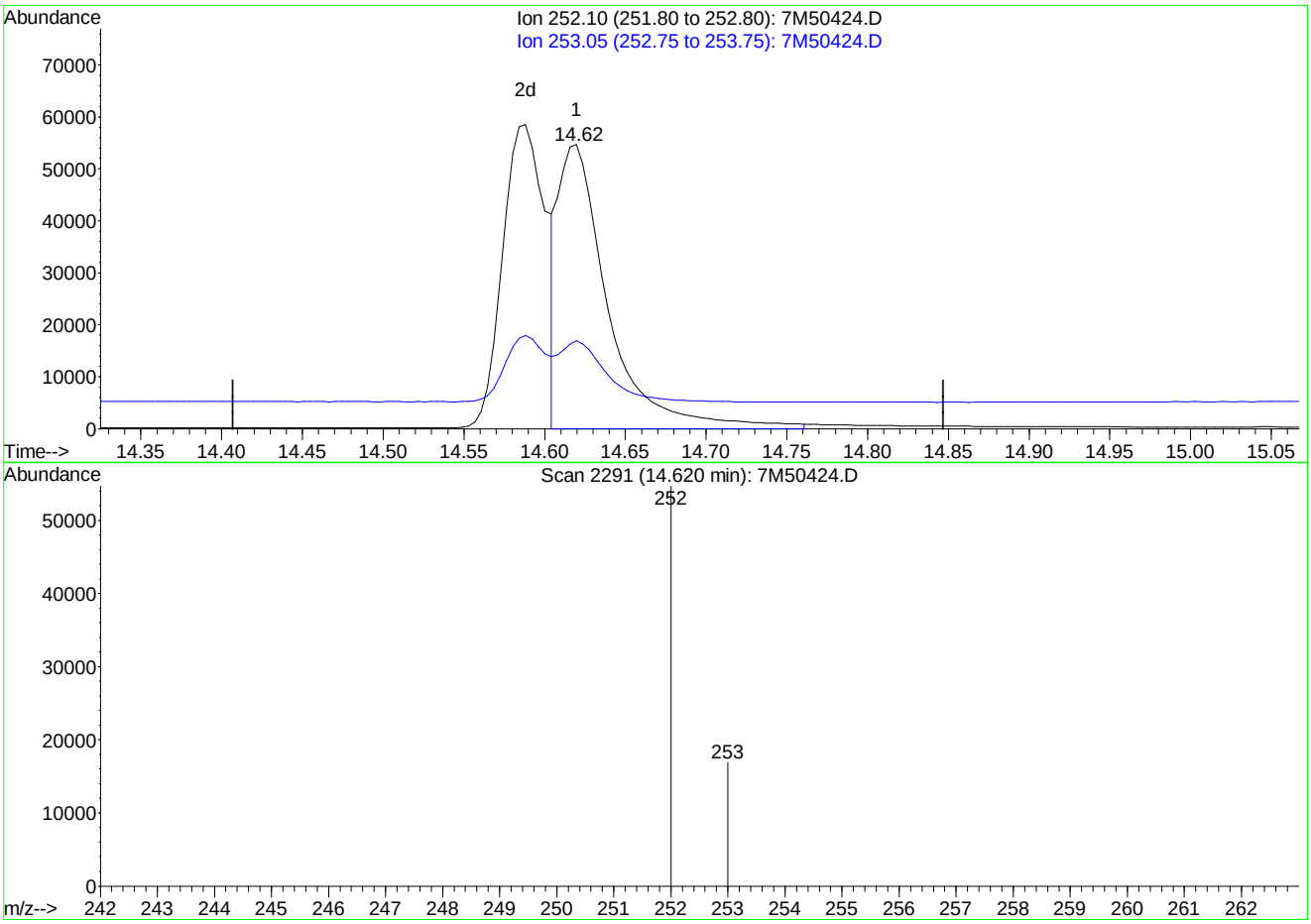
Ion	Exp%	Act%
252.10	100	100
253.05	19.00	20.75
0.00	0.00	0.00
0.00	0.00	0.00

7M50424.D SIMPAHL.M Mon Feb 14 07:03:35 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\021111\7M50424.D Vial: 9
Acq On : 11 Feb 2011 4:41 pm Operator: CAA
Sample : WG356259-09 1ppm PAHL Alt Src STD Inst : HPMS7
Misc : 1,1 STD43326 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 14 7:03 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 14 07:03:17 2011
Response via : Multiple Level Calibration



TIC: 7M50424.D

(22) Benzo[k]fluoranthene

14.62min 0.89ug/ml mint

response 118356

Ion	Exp%	Act%
252.10	100	100
253.05	19.00	18.44
0.00	0.00	0.00
0.00	0.00	0.00

7M50424.D SIMPAHL.M Mon Feb 14 07:03:43 2011

Analyst: 02/14/2011 08:30 Supervisor: 02/14/2011 10:33

#3 - Improperly integrated isomers and/or coeluting compounds

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03935.D
Acq On : 15 Feb 2011 9:38 am
Operator : CAA
Sample : WG356529-02 1ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 12:38:41 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:38:37 2011
Response via : Initial Calibration

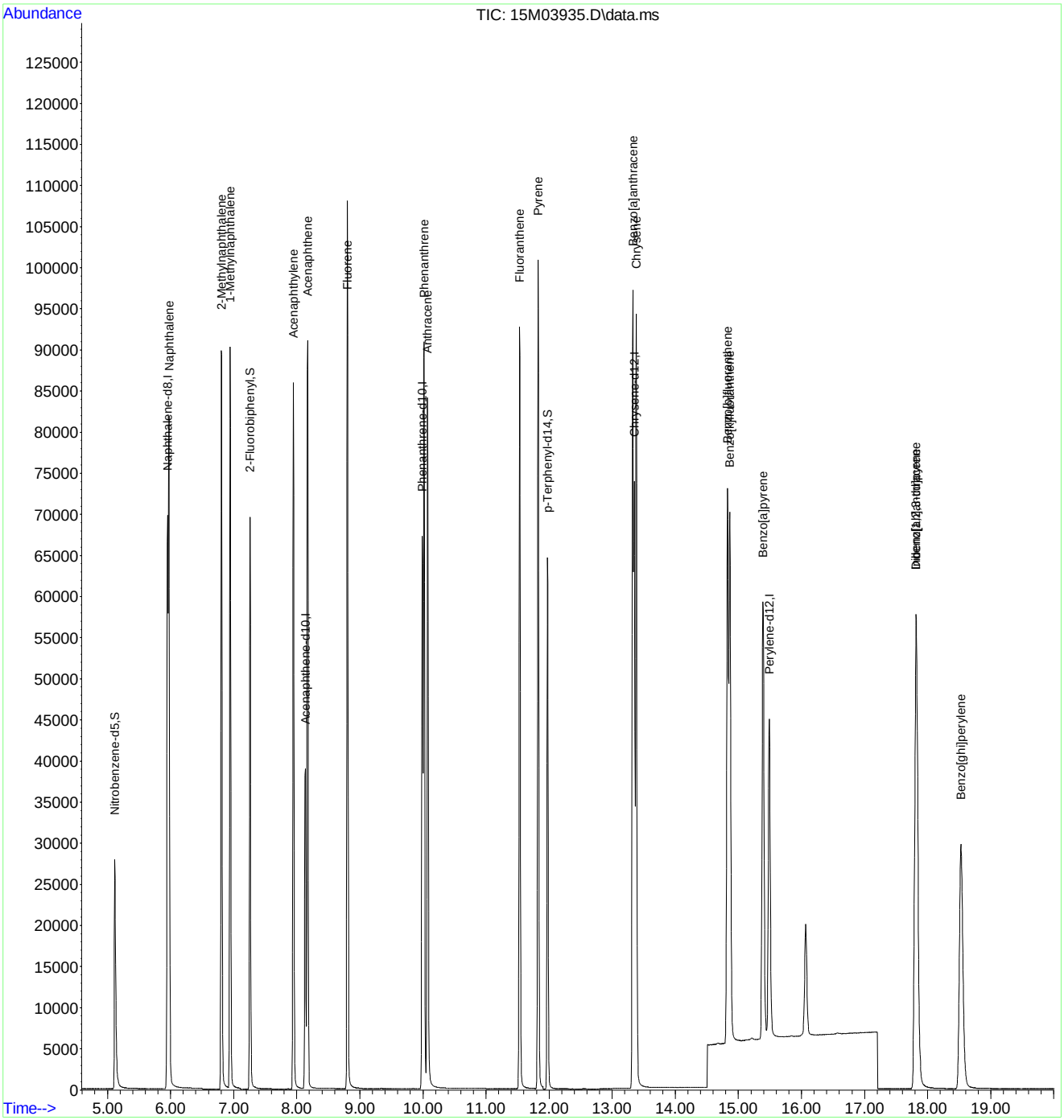
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.953	136	88421	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.136	164	48126	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.987	188	84788	1.00	ug/mL	0.00
15) Chrysene-d12	13.349	240	93522	1.00	ug/mL	0.00
20) Perylene-d12	15.490	264	85766	1.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.118	82	30978	0.99	ug/mL	-0.04
Spiked Amount 2.500	Range 35 - 114		Recovery = 39.60%			
7) 2-Fluorobiphenyl	7.260	172	63305	0.92	ug/mL	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 36.80%#			
17) p-Terphenyl-d14	11.975	244	63167	1.00	ug/mL	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 40.00%			
Target Compounds						Qvalue
3) Naphthalene	5.975	128	91469	0.9792	ug/mL	99
4) 2-Methylnaphthalene	6.808	142	60084	0.9596	ug/mL	99
5) 1-Methylnaphthalene	6.944	142	59184	0.9830	ug/mL	99
8) Acenaphthylene	7.949	152	89545	1.0330	ug/mL	96
9) Acenaphthene	8.174	154	55901	0.9327	ug/mL	97
10) Fluorene	8.805	166	67555	0.9456	ug/mL	99
12) Phenanthrene	10.019	178	97820	0.9314	ug/mL	96
13) Anthracene	10.073	178	91598	0.9563	ug/mL	97
14) Fluoranthene	11.533	202	103341	0.9292	ug/mL	95
16) Pyrene	11.827	202	110884	1.0242	ug/mL	97
18) Benzo[a]anthracene	13.327	228	99178	1.0830	ug/mL	96
19) Chrysene	13.381	228	97835	1.1138	ug/mL	95
21) Benzo[b]fluoranthene	14.828	252	104367	0.9728	ug/mL	94
22) Benzo[k]fluoranthene	14.861	252	96028	1.0133	ug/mL	91
23) Benzo[a]pyrene	15.388	252	95643	0.9858	ug/mL	97
24) Indeno[1,2,3-cd]pyrene	17.817	276	113930	1.1295	ug/mL#	49
25) Dibenz[ah]anthracene	17.817	278	92293	1.1370	ug/mL#	51
26) Benzo[ghi]perylene	18.528	276	94509	1.1038	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03935.D
Acq On : 15 Feb 2011 9:38 am
Operator : CAA
Sample : WG356529-02 1ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 15 12:38:41 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:38:37 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03936.D
Acq On : 15 Feb 2011 10:06 am
Operator : CAA
Sample : WG356529-03 10ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 3 Sample Multiplier: 1

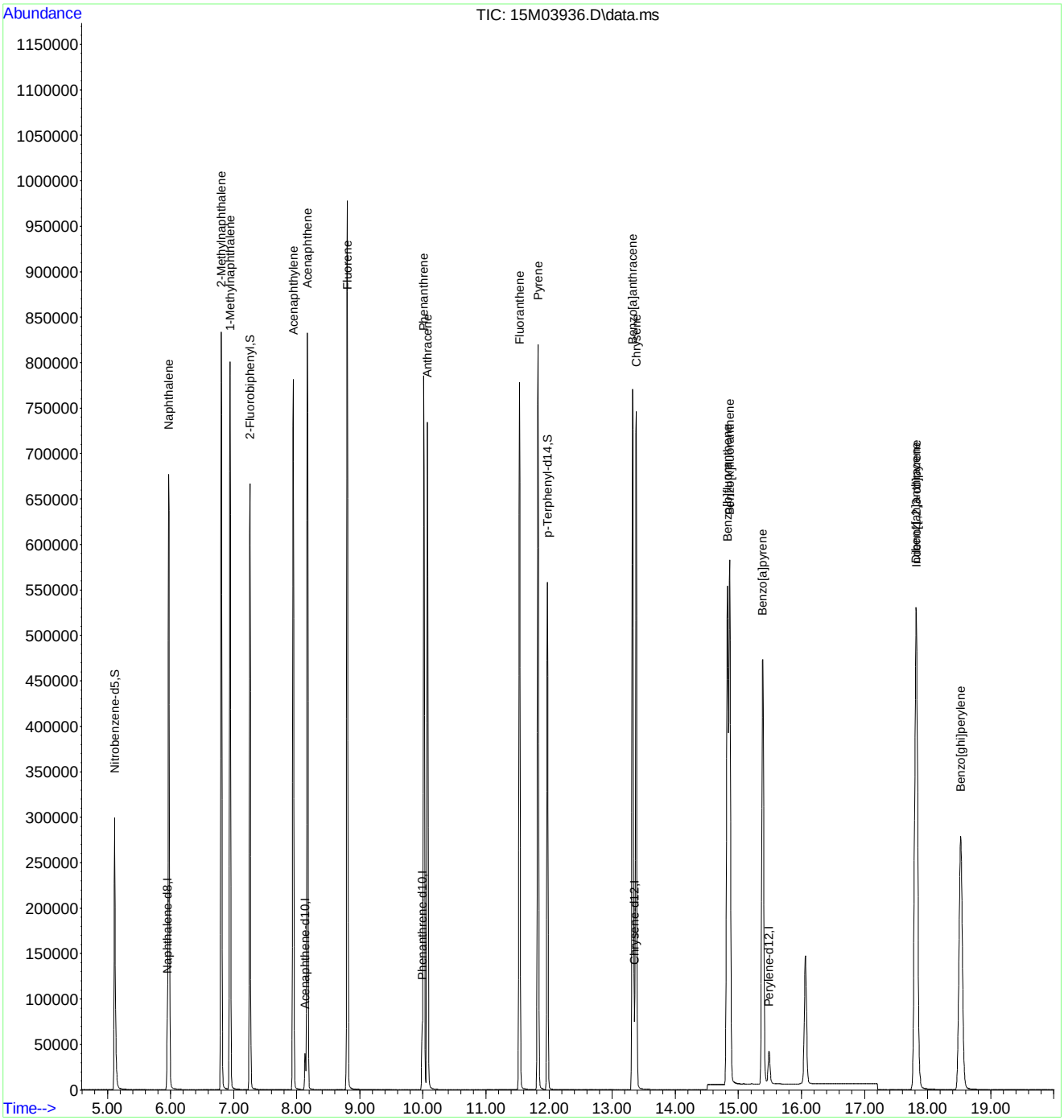
Quant Time: Feb 15 12:39:08 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:38:53 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.948	136	85902	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.131	164	47748	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.987	188	81951	1.00	ug/mL	0.00
15) Chrysene-d12	13.349	240	90456	1.00	ug/mL	0.00
20) Perylene-d12	15.485	264	79045	1.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.114	82	306132	10.14	ug/mL	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 405.60%#			
7) 2-Fluorobiphenyl	7.257	172	586880	8.75	ug/mL	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 350.00%#			
17) p-Terphenyl-d14	11.971	244	550536	9.01	ug/mL	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 360.40%#			
Target Compounds						Qvalue
3) Naphthalene	5.969	128	778561	8.6668	ug/mL	94
4) 2-Methylnaphthalene	6.804	142	556360	9.2520	ug/mL	98
5) 1-Methylnaphthalene	6.944	142	533197	9.1938	ug/mL	99
8) Acenaphthylene	7.945	152	805577	9.4868	ug/mL	94
9) Acenaphthene	8.168	154	515990	8.8156	ug/mL	98
10) Fluorene	8.802	166	622508	8.9277	ug/mL	99
12) Phenanthrene	10.014	178	829719	8.3177	ug/mL	93
13) Anthracene	10.073	178	799456	8.8102	ug/mL	93
14) Fluoranthene	11.529	202	869452	8.2469	ug/mL	93
16) Pyrene	11.824	202	915378	8.7564	ug/mL	94
18) Benzo[a]anthracene	13.322	228	823674	9.2422	ug/mL	93
19) Chrysene	13.381	228	782700	9.1141	ug/mL	92
21) Benzo[b]fluoranthene	14.824	252	868681	8.8121	ug/mL	91
22) Benzo[k]fluoranthene	14.861	252	760576	8.7493	ug/mL	90
23) Benzo[a]pyrene	15.383	252	831739	9.3552	ug/mL	98
24) Indeno[1,2,3-cd]pyrene	17.821	276	1016708	10.7662	ug/mL#	100
25) Dibenz[ah]anthracene	17.818	278	829407	10.9021	ug/mL#	100
26) Benzo[ghi]perylene	18.525	276	839944	10.4992	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03936.D
Acq On : 15 Feb 2011 10:06 am
Operator : CAA
Sample : WG356529-03 10ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 12:39:08 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:38:53 2011
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03937.D
Acq On : 15 Feb 2011 10:34 am
Operator : CAA
Sample : WG356529-04 5ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 4 Sample Multiplier: 1

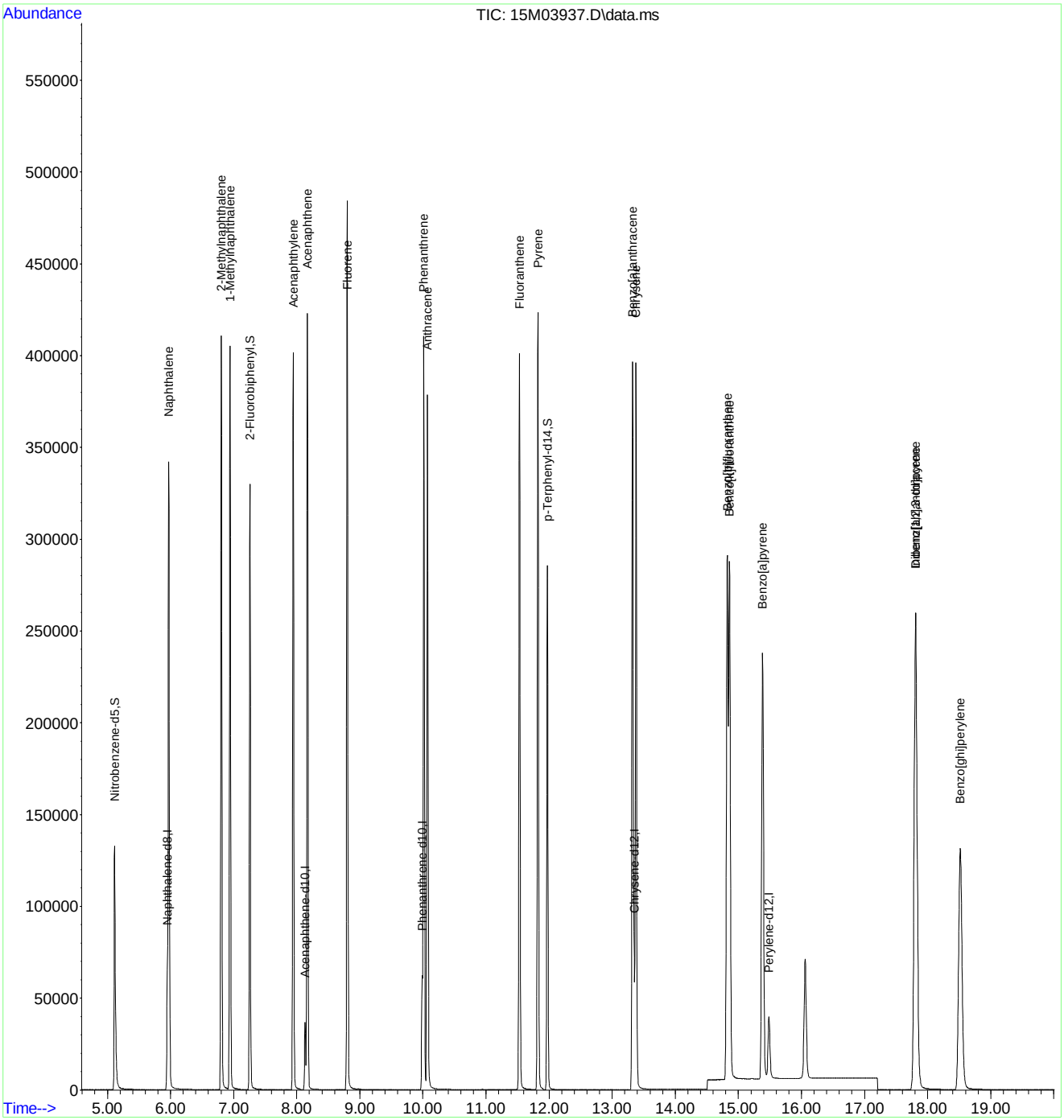
Quant Time: Feb 15 12:39:25 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:39:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.948	136	76513	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.131	164	42987	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.987	188	74610	1.00	ug/mL	0.00
15) Chrysene-d12	13.349	240	83647	1.00	ug/mL	0.00
20) Perylene-d12	15.485	264	73437	1.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.114	82	139020	5.16	ug/mL	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 206.40%#			
7) 2-Fluorobiphenyl	7.257	172	287186	4.77	ug/mL	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 190.80%#			
17) p-Terphenyl-d14	11.971	244	273366	4.79	ug/mL	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 191.60%#			
Target Compounds						Qvalue
3) Naphthalene	5.969	128	386454	4.8157	ug/mL	98
4) 2-Methylnaphthalene	6.804	142	269638	5.0142	ug/mL	99
5) 1-Methylnaphthalene	6.940	142	260773	5.0309	ug/mL	99
8) Acenaphthylene	7.945	152	402547	5.2352	ug/mL	98
9) Acenaphthene	8.168	154	252303	4.7958	ug/mL	99
10) Fluorene	8.802	166	309109	4.9188	ug/mL	100
12) Phenanthrene	10.014	178	421873	4.6436	ug/mL	97
13) Anthracene	10.073	178	407287	4.9268	ug/mL	97
14) Fluoranthene	11.529	202	444739	4.6424	ug/mL	98
16) Pyrene	11.824	202	470868	4.8055	ug/mL	98
18) Benzo[a]anthracene	13.322	228	416510	4.9810	ug/mL	97
19) Chrysene	13.376	228	404263	5.0228	ug/mL	97
21) Benzo[b]fluoranthene	14.824	252	425074	4.6525	ug/mL	95
22) Benzo[k]fluoranthene	14.857	252	391713	4.8899	ug/mL	93
23) Benzo[a]pyrene	15.383	252	408968	4.9510	ug/mL	100
24) Indeno[1,2,3-cd]pyrene	17.810	276	489686	5.5070	ug/mL#	100
25) Dibenz[ah]anthracene	17.807	278	398702	5.5708	ug/mL#	100
26) Benzo[ghi]perylene	18.517	276	403279	5.3571	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03937.D
Acq On : 15 Feb 2011 10:34 am
Operator : CAA
Sample : WG356529-04 5ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 12:39:25 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:39:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03938.D
Acq On : 15 Feb 2011 11:02 am
Operator : CAA
Sample : WG356529-05 2.5ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 5 Sample Multiplier: 1

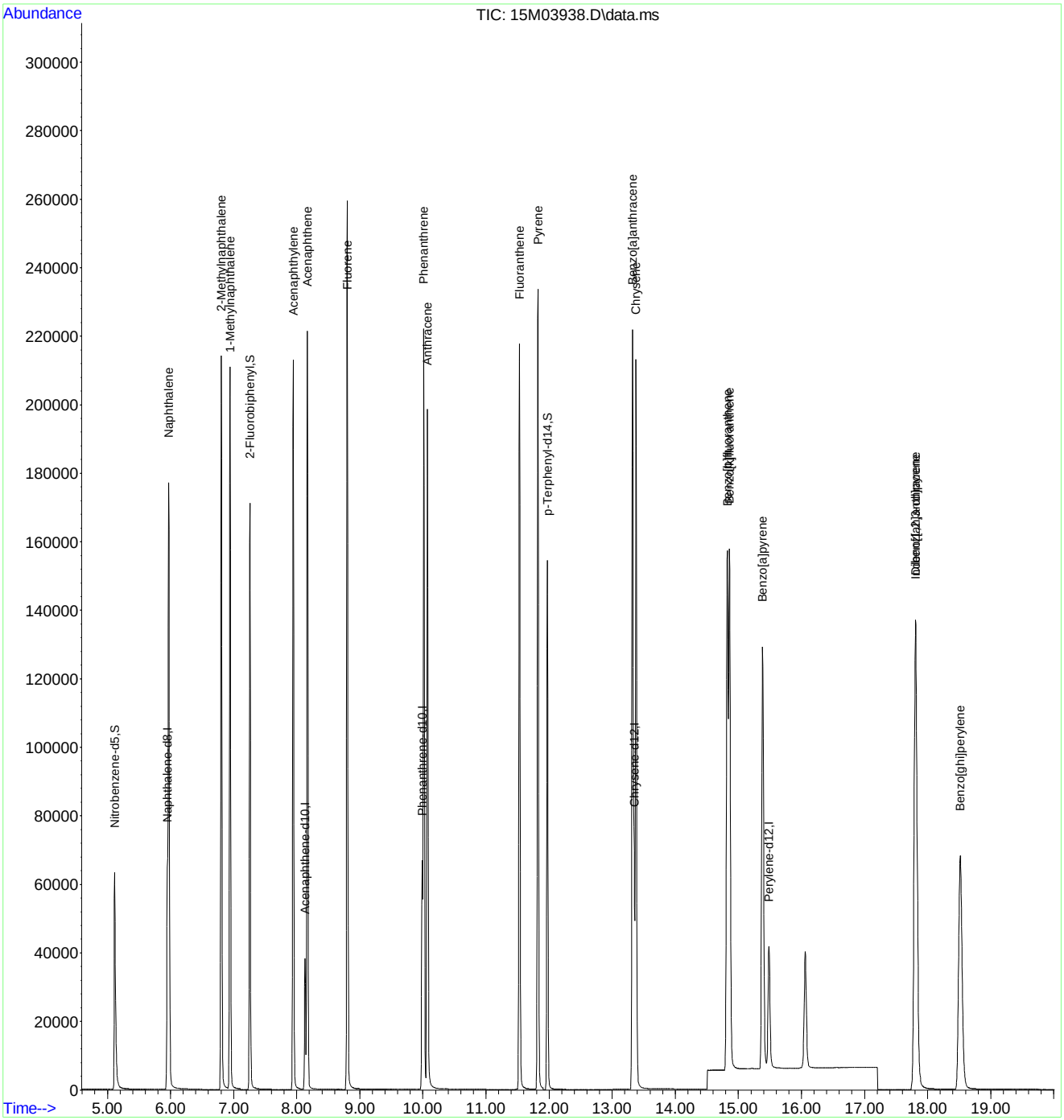
Quant Time: Feb 15 12:39:40 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:39:34 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.948	136	79584	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.131	164	45447	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.987	188	79439	1.00	ug/mL	0.00
15) Chrysene-d12	13.349	240	88789	1.00	ug/mL	0.00
20) Perylene-d12	15.485	264	78207	1.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.114	82	69900	2.50	ug/mL	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 100.00%			
7) 2-Fluorobiphenyl	7.257	172	151667	2.40	ug/mL	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 96.00%			
17) p-Terphenyl-d14	11.971	244	147133	2.42	ug/mL	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 96.80%			
Target Compounds						Qvalue
3) Naphthalene	5.969	128	204347	2.4507	ug/mL	99
4) 2-Methylnaphthalene	6.804	142	140078	2.5042	ug/mL	99
5) 1-Methylnaphthalene	6.944	142	136971	2.5391	ug/mL	100
8) Acenaphthylene	7.945	152	213321	2.6190	ug/mL	100
9) Acenaphthene	8.168	154	133157	2.4062	ug/mL	99
10) Fluorene	8.802	166	163374	2.4637	ug/mL	100
12) Phenanthrene	10.014	178	229277	2.3813	ug/mL	99
13) Anthracene	10.073	178	218887	2.4945	ug/mL	99
14) Fluoranthene	11.529	202	241657	2.3864	ug/mL	99
16) Pyrene	11.824	202	257557	2.4523	ug/mL	99
18) Benzo[a]anthracene	13.322	228	226217	2.5211	ug/mL	99
19) Chrysene	13.376	228	220901	2.5549	ug/mL	99
21) Benzo[b]fluoranthene	14.824	252	227373	2.3545	ug/mL	96
22) Benzo[k]fluoranthene	14.857	252	212133	2.5108	ug/mL	95
23) Benzo[a]pyrene	15.383	252	217848	2.4812	ug/mL	99
24) Indeno[1,2,3-cd]pyrene	17.810	276	259827	2.7078	ug/mL#	100
25) Dibenz[ah]anthracene	17.807	278	211035	2.7334	ug/mL#	100
26) Benzo[ghi]perylene	18.517	276	214196	2.6401	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03938.D
Acq On : 15 Feb 2011 11:02 am
Operator : CAA
Sample : WG356529-05 2.5ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 12:39:40 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:39:34 2011
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03939.D
Acq On : 15 Feb 2011 11:30 am
Operator : CAA
Sample : WG356529-06 0.5ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 6 Sample Multiplier: 1

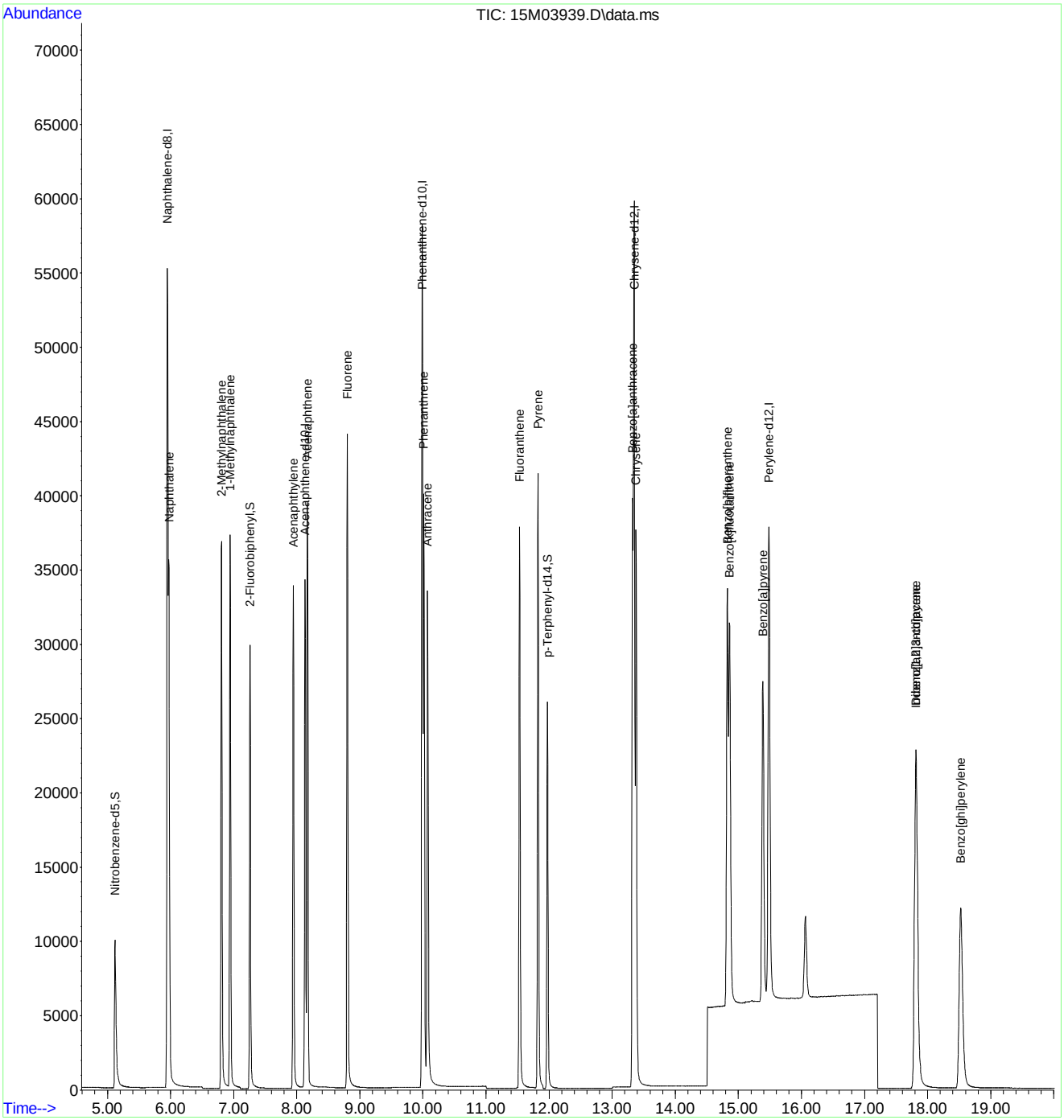
Quant Time: Feb 15 12:39:54 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:39:48 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.948	136	73587	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.131	164	41274	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.987	188	73398	1.00	ug/mL	0.00
15) Chrysene-d12	13.349	240	78756	1.00	ug/mL	0.00
20) Perylene-d12	15.485	264	70929	1.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.122	82	12439	0.48	ug/mL	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 19.20%#			
7) 2-Fluorobiphenyl	7.260	172	27898	0.49	ug/mL	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 19.60%#			
17) p-Terphenyl-d14	11.975	244	26698	0.49	ug/mL	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 19.60%#			
Target Compounds						Qvalue
3) Naphthalene	5.975	128	38428	0.5007	ug/mL	100
4) 2-Methylnaphthalene	6.808	142	25540	0.4952	ug/mL	100
5) 1-Methylnaphthalene	6.944	142	25808	0.5180	ug/mL	100
8) Acenaphthylene	7.949	152	37377	0.5066	ug/mL	99
9) Acenaphthene	8.168	154	24450	0.4908	ug/mL	99
10) Fluorene	8.805	166	29439	0.4918	ug/mL	100
12) Phenanthrene	10.014	178	42051	0.4775	ug/mL	100
13) Anthracene	10.073	178	38480	0.4788	ug/mL	100
14) Fluoranthene	11.533	202	43841	0.4743	ug/mL	100
16) Pyrene	11.824	202	47177	0.5045	ug/mL	99
18) Benzo[a]anthracene	13.322	228	40826	0.5095	ug/mL	99
19) Chrysene	13.376	228	40923	0.5292	ug/mL	100
21) Benzo[b]fluoranthene	14.824	252	42517	0.4902	ug/mL	100
22) Benzo[k]fluoranthene	14.857	252	37128	0.4855	ug/mL	95
23) Benzo[a]pyrene	15.388	252	38493	0.4851	ug/mL	100
24) Indeno[1,2,3-cd]pyrene	17.818	276	46403	0.5257	ug/mL#	100
25) Dibenz[ah]anthracene	17.814	278	37737	0.5313	ug/mL#	100
26) Benzo[ghi]perylene	18.525	276	38834	0.5214	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03939.D
Acq On : 15 Feb 2011 11:30 am
Operator : CAA
Sample : WG356529-06 0.5ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 12:39:54 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:39:48 2011
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03940.D
Acq On : 15 Feb 2011 11:59 am
Operator : CAA
Sample : WG356529-07 0.1ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 7 Sample Multiplier: 1

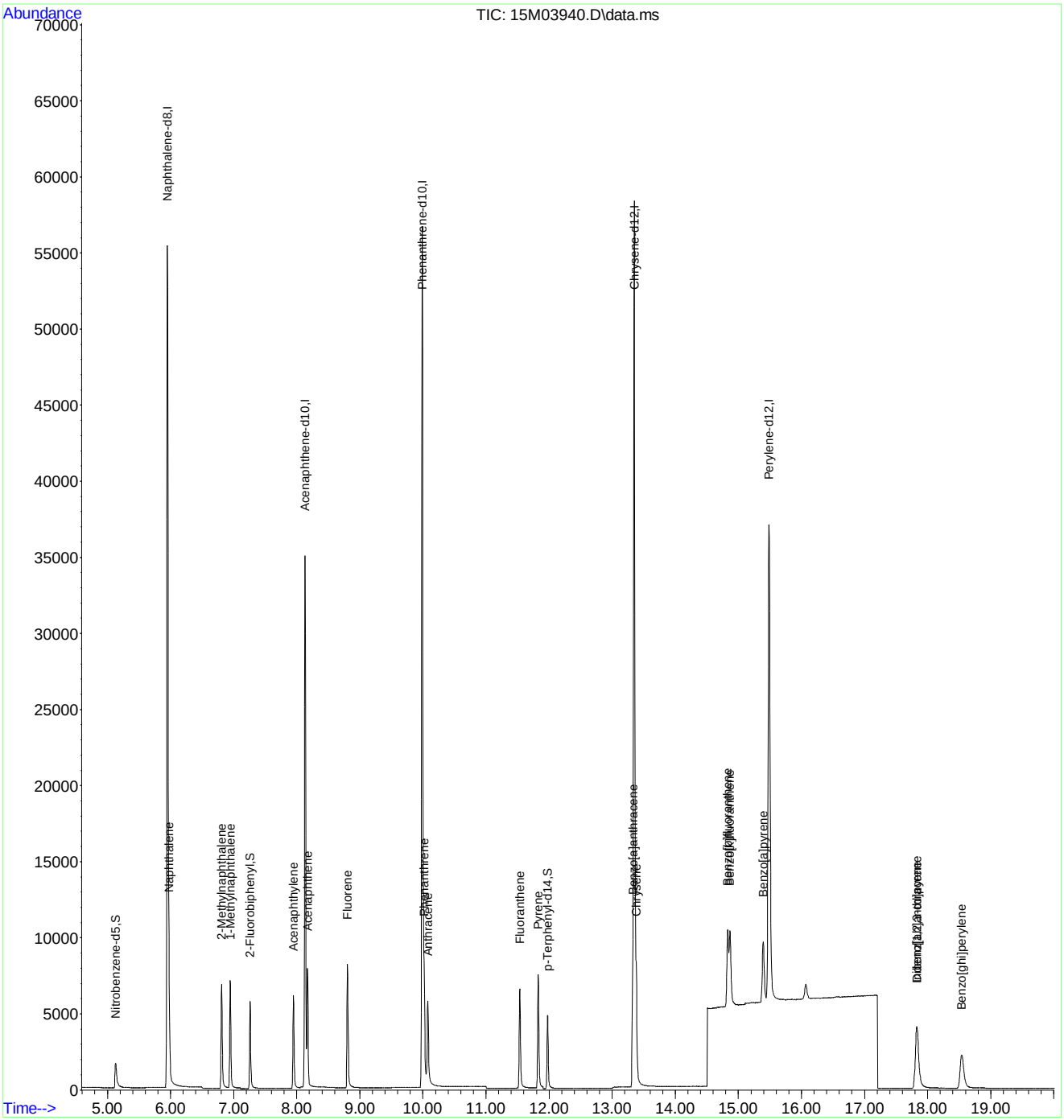
Quant Time: Feb 15 12:40:12 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:40:05 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.948	136	75653	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.131	164	42128	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.987	188	73987	1.00	ug/mL	0.00
15) Chrysene-d12	13.349	240	78703	1.00	ug/mL	0.00
20) Perylene-d12	15.485	264	71273	1.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.129	82	2401	0.09	ug/mL	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 3.60%#			
7) 2-Fluorobiphenyl	7.261	172	5627	0.10	ug/mL	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 4.00%#			
17) p-Terphenyl-d14	11.975	244	5239	0.10	ug/mL	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 4.00%#			
Target Compounds						Qvalue
3) Naphthalene	5.975	128	7874	0.1005	ug/mL	100
4) 2-Methylnaphthalene	6.808	142	5119	0.0972	ug/mL	100
5) 1-Methylnaphthalene	6.948	142	5687	0.1109	ug/mL	89
8) Acenaphthylene	7.949	152	7272	0.0968	ug/mL	91
9) Acenaphthene	8.174	154	4875	0.0970	ug/mL	100
10) Fluorene	8.805	166	5743	0.0950	ug/mL	100
12) Phenanthrene	10.020	178	8355	0.0959	ug/mL	100
13) Anthracene	10.079	178	6950	0.0874	ug/mL	100
14) Fluoranthene	11.537	202	8432	0.0924	ug/mL	99
16) Pyrene	11.828	202	9317	0.0999	ug/mL	91
18) Benzo[a]anthracene	13.327	228	7870	0.0981	ug/mL	100
19) Chrysene	13.381	228	8262	0.1062	ug/mL	99
21) Benzo[b]fluoranthene	14.828	252	7646	0.0886	ug/mL	100
22) Benzo[k]fluoranthene	14.865	252	8027	0.1055	ug/mL	98
23) Benzo[a]pyrene	15.394	252	7293	0.0923	ug/mL	97
24) Indeno[1,2,3-cd]pyrene	17.832	276	8948	0.0993	ug/mL#	100
25) Dibenz[ah]anthracene	17.829	278	7258	0.0999	ug/mL#	100
26) Benzo[ghi]perylene	18.539	276	7677	0.1013	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03940.D
Acq On : 15 Feb 2011 11:59 am
Operator : CAA
Sample : WG356529-07 0.1ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 15 12:40:12 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:40:05 2011
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03941.D
Acq On : 15 Feb 2011 12:28 pm
Operator : CAA
Sample : WG356529-08 0.05ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 8 Sample Multiplier: 1

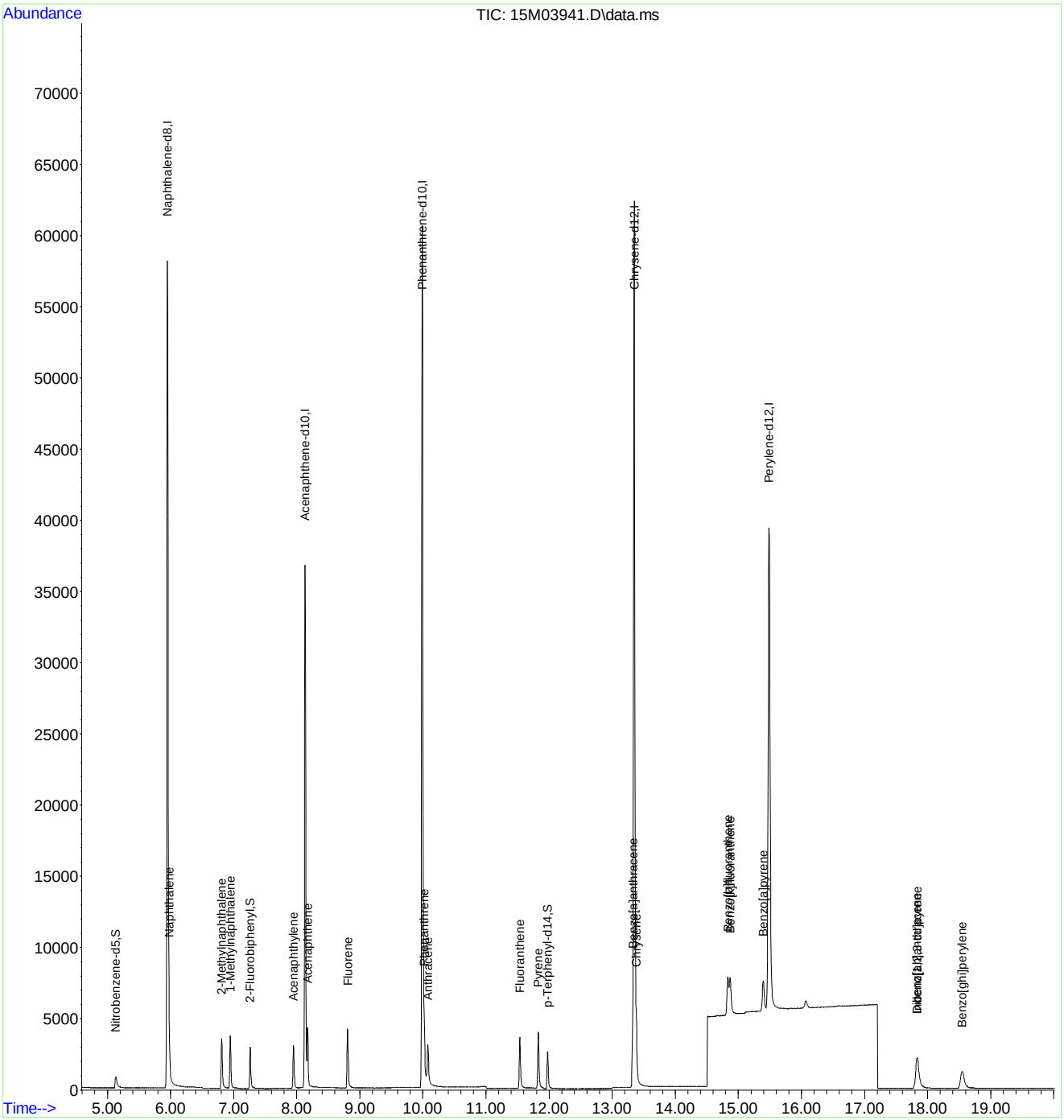
Quant Time: Feb 15 12:44:07 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:40:20 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.948	136	80934	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.131	164	45035	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.987	188	80027	1.00	ug/mL	0.00
15) Chrysene-d12	13.349	240	86398	1.00	ug/mL	0.00
20) Perylene-d12	15.485	264	77065	1.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.133	82	1272	0.05	ug/mL	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 2.00%#			
7) 2-Fluorobiphenyl	7.260	172	3024	0.05	ug/mL	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 2.00%#			
17) p-Terphenyl-d14	11.975	244	2911	0.05	ug/mL	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 2.00%#			
Target Compounds						Qvalue
3) Naphthalene	5.975	128	4265	0.0513	ug/mL	100
4) 2-Methylnaphthalene	6.811	142	2735	0.0489	ug/mL	99
5) 1-Methylnaphthalene	6.948	142	2674	0.0481	ug/mL	100
8) Acenaphthylene	7.949	152	3968	0.0493	ug/mL	92
9) Acenaphthene	8.174	154	2622	0.0495	ug/mL	99
10) Fluorene	8.809	166	3035	0.0477	ug/mL	98
12) Phenanthrene	10.020	178	4549	0.0493	ug/mL	100
13) Anthracene	10.079	178	3597	0.0428	ug/mL	99
14) Fluoranthene	11.537	202	4571	0.0475	ug/mL	99
16) Pyrene	11.828	202	5174	0.0511	ug/mL	84
18) Benzo[a]anthracene	13.327	228	4384	0.0500	ug/mL	99
19) Chrysene	13.381	228	4601	0.0534	ug/mL	99
21) Benzo[b]fluoranthene	14.832	252	4309	0.0475	ug/mL	100
22) Benzo[k]fluoranthene	14.868	252	4148	0.0501	ug/mL	98
23) Benzo[a]pyrene	15.394	252	3937	0.0468	ug/mL	95
24) Indeno[1,2,3-cd]pyrene	17.836	276	4912	0.0497	ug/mL#	100
25) Dibenz[ah]anthracene	17.829	278	4005	0.0501	ug/mL#	100
26) Benzo[ghi]perylene	18.543	276	4181	0.0504	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03941.D
Acq On : 15 Feb 2011 12:28 pm
Operator : CAA
Sample : WG356529-08 0.05ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 15 12:44:07 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:40:20 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03942.D
Acq On : 15 Feb 2011 12:56 pm
Operator : CAA
Sample : WG356529-09 1ppm PAHL Alt Src STD
Misc : 1,1 STD43326
ALS Vial : 9 Sample Multiplier: 1

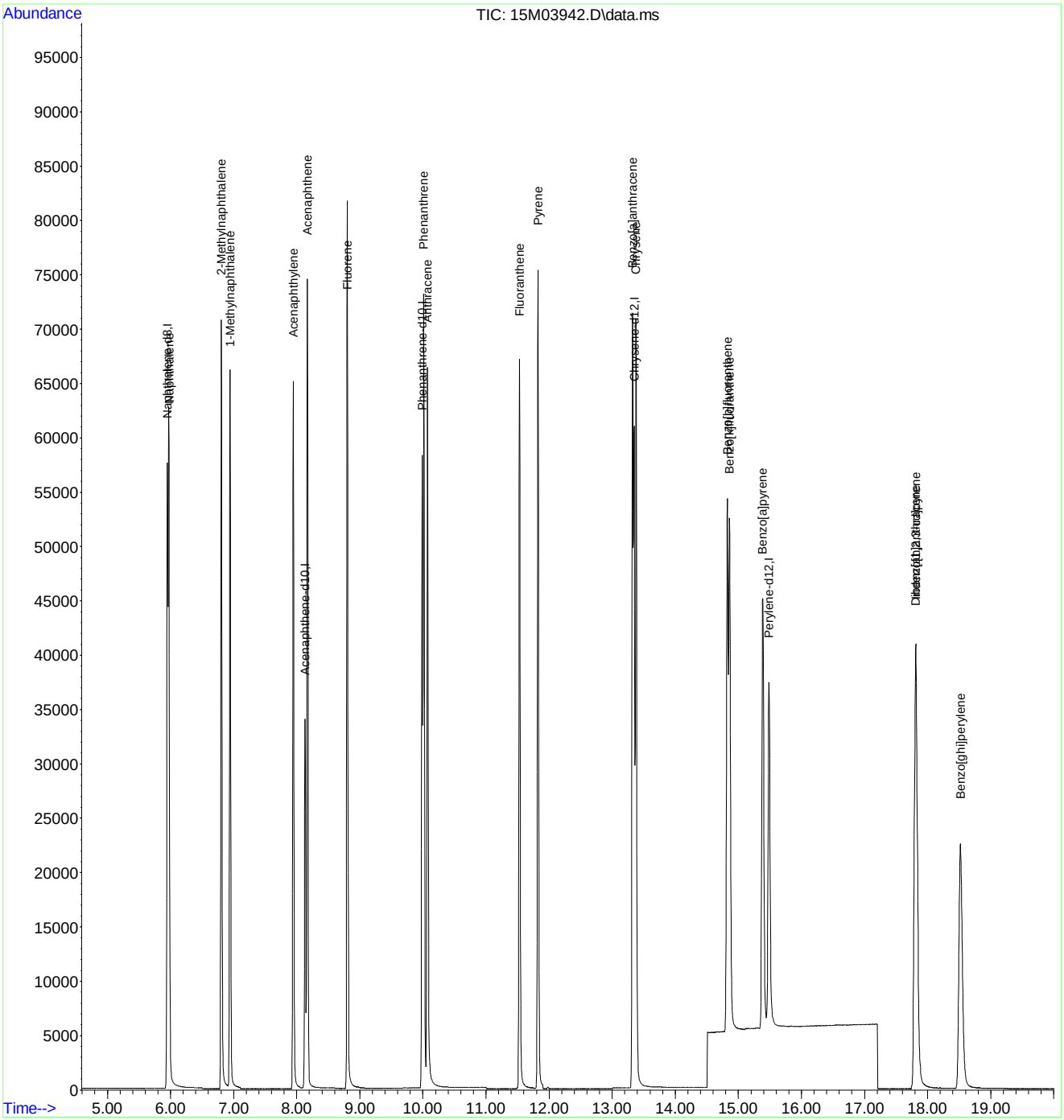
Quant Time: Feb 15 13:20:11 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:44:16 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.948	136	72946	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.131	164	41159	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.987	188	72656	1.00	ug/mL	0.00
15) Chrysene-d12	13.349	240	79790	1.00	ug/mL	0.00
20) Perylene-d12	15.485	264	70088	1.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.136	82	7	0.00	ug/mL	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	0.00%#		
7) 2-Fluorobiphenyl	7.106	172	30	0.00	ug/mL	-0.15
Spiked Amount 2.500	Range 43 - 116		Recovery =	0.00%#		
17) p-Terphenyl-d14	11.979	244	201	0.00	ug/mL	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	0.00%#		
Target Compounds						Qvalue
3) Naphthalene	5.975	128	70873	0.9556	ug/mL	100
4) 2-Methylnaphthalene	6.804	142	46630	0.9356	ug/mL	100
5) 1-Methylnaphthalene	6.944	142	44855	0.9016	ug/mL	100
8) Acenaphthylene	7.945	152	67556	0.9120	ug/mL	100
9) Acenaphthene	8.168	154	45018	0.9459	ug/mL	99
10) Fluorene	8.802	166	53031	0.9278	ug/mL	100
12) Phenanthrene	10.014	178	76279	0.9346	ug/mL	100
13) Anthracene	10.073	178	74608	1.0072	ug/mL	100
14) Fluoranthene	11.529	202	79191	0.9344	ug/mL	100
16) Pyrene	11.824	202	84732	0.9219	ug/mL	100
18) Benzo[a]anthracene	13.322	228	71225	0.8879	ug/mL	99
19) Chrysene	13.376	228	75700	0.9451	ug/mL	100
21) Benzo[b]fluoranthene	14.824	252	69869	0.8694	ug/mL	96
22) Benzo[k]fluoranthene	14.857	252	70603	0.9423	ug/mL	100
23) Benzo[a]pyrene	15.383	252	71857	0.9536	ug/mL	99
24) Indeno[1,2,3-cd]pyrene	17.814	276	81609	0.8941	ug/mL#	100
25) Dibenz[ah]anthracene	17.807	278	65716	0.8855	ug/mL#	100
26) Benzo[ghi]perylene	18.521	276	70812	0.9287	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03942.D
Acq On : 15 Feb 2011 12:56 pm
Operator : CAA
Sample : WG356529-09 1ppm PAHL Alt Src STD
Misc : 1,1 STD43326
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 15 13:20:11 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 15 12:44:16 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50502.D Vial: 2
Acq On : 21 Feb 2011 10:14 am Operator: CAA
Sample : WG357051-02 1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 21 10:34:26 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 21 10:07:44 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

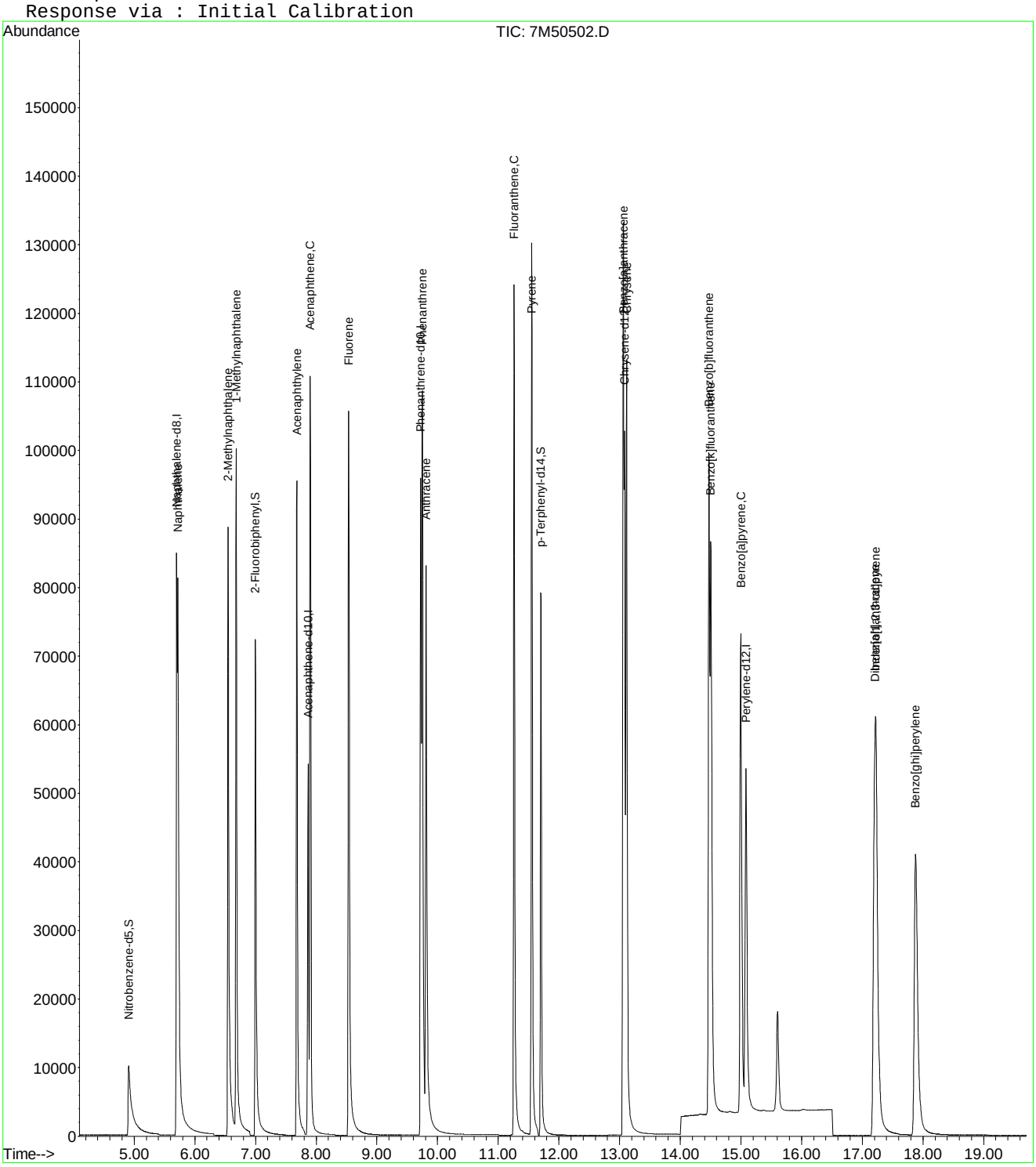
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.70	136	114101	1.00	ug/ml	0.01
6) Acenaphthene-d10	7.87	164	71309	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.72	188	124598	1.00	ug/ml	0.01
15) Chrysene-d12	13.08	240	126506	1.00	ug/ml	0.00
20) Perylene-d12	15.09	264	112960	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.91	82	27829	0.8645	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 34.40%#			
7) 2-Fluorobiphenyl	7.00	172	81254	0.9941	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 39.60%#			
17) p-Terphenyl-d14	11.70	244	91199	1.0648	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 42.40%			
Target Compounds						Qvalue
3) Naphthalene	5.72	128	110896	1.0289	ug/ml	100
4) 2-Methylnaphthalene	6.55	142	75880	1.0922	ug/ml	100
5) 1-Methylnaphthalene	6.68	142	74257	1.0627	ug/ml	99
8) Acenaphthylene	7.68	152	112247	0.8680	ug/ml	100
9) Acenaphthene	7.90	154	71283	0.9740	ug/ml	99
10) Fluorene	8.54	166	83451	0.9874	ug/ml	100
12) Phenanthrene	9.75	178	128163	1.0587	ug/ml	100
13) Anthracene	9.81	178	110542	1.0495	ug/ml	99
14) Fluoranthene	11.26	202	150365	1.0773	ug/ml	100
16) Pyrene	11.55	202	166817	1.0655	ug/ml	100
18) Benzo[a]anthracene	13.06	228	139854	1.0502	ug/ml	99
19) Chrysene	13.12	228	134588	0.9872	ug/ml	99
21) Benzo[b]fluoranthene	14.47	252	137928	1.1564	ug/ml	91
22) Benzo[k]fluoranthene	14.50	252	130023	0.9289	ug/ml	88
23) Benzo[a]pyrene	15.00	252	128736	1.0467	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	17.23	276	157790	1.0422	ug/ml	100
25) Dibenz[ah]anthracene	17.20	278	129785	1.0259	ug/ml	100
26) Benzo[ghi]perylene	17.88	276	130995	1.0168	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M50502.D SIMPAHL.M Tue Feb 22 06:51:56 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50502.D Vial: 2
Acq On : 21 Feb 2011 10:14 am Operator: CAA
Sample : WG357051-02 1ppm PAHL STD Inst : HPMS7
Misc : 1,1 STD41768 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 21 10:34 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Mon Feb 21 10:07:44 2011
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03983.D
Acq On : 22 Feb 2011 11:38 am
Operator : CAA
Sample : WG357220-02 1ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 2 Sample Multiplier: 1

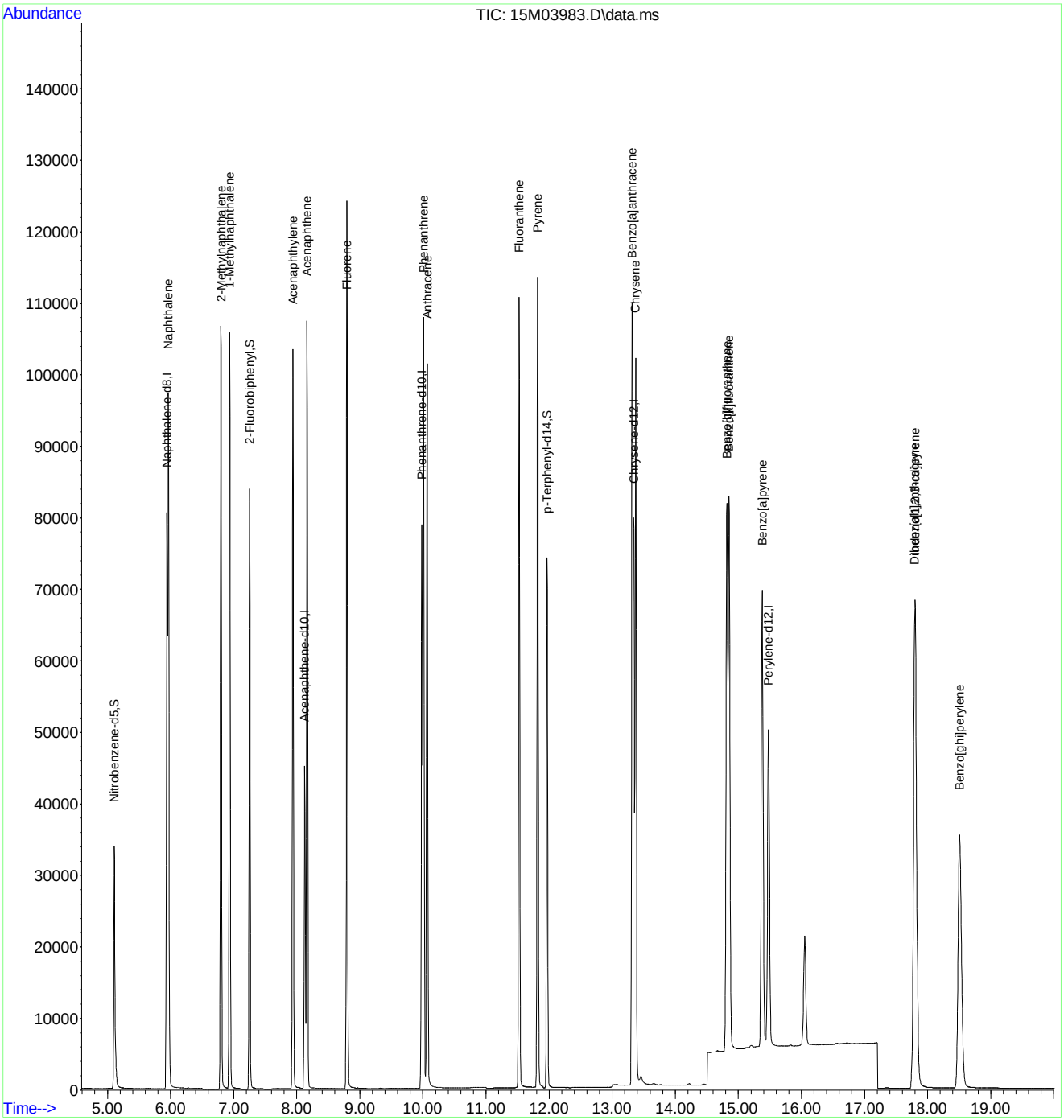
Quant Time: Feb 22 11:55:45 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 07:50:29 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.943	136	98793	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.125	164	54184	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.982	188	95247	1.00	ug/mL	0.00
15) Chrysene-d12	13.344	240	102696	1.00	ug/mL	0.00
20) Perylene-d12	15.479	264	98690	1.00	ug/mL	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.107	82	35615	1.06	ug/mL	-0.03
Spiked Amount 2.500	Range 35 - 114		Recovery = 42.40%			
7) 2-Fluorobiphenyl	7.253	172	73703	1.03	ug/mL	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 41.20%#			
17) p-Terphenyl-d14	11.967	244	71752	1.06	ug/mL	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 42.40%			
Target Compounds						Qvalue
3) Naphthalene	5.964	128	103647	1.0319	ug/mL	100
4) 2-Methylnaphthalene	6.800	142	68706	1.0179	ug/mL	100
5) 1-Methylnaphthalene	6.936	142	67213	0.9976	ug/mL	99
8) Acenaphthylene	7.942	152	105257	1.0794	ug/mL	98
9) Acenaphthene	8.163	154	64374	1.0274	ug/mL	99
10) Fluorene	8.798	166	77792	1.0338	ug/mL	99
12) Phenanthrene	10.009	178	111417	1.0413	ug/mL	100
13) Anthracene	10.068	178	106365	1.0954	ug/mL	100
14) Fluoranthene	11.526	202	118717	1.0685	ug/mL	100
16) Pyrene	11.816	202	126753	1.0715	ug/mL	98
18) Benzo[a]anthracene	13.317	228	110098	1.0663	ug/mL	100
19) Chrysene	13.370	228	105317	1.0215	ug/mL	99
21) Benzo[b]fluoranthene	14.817	252	111850	0.9884	ug/mL	96
22) Benzo[k]fluoranthene	14.850	252	109118	1.0343	ug/mL	96
23) Benzo[a]pyrene	15.377	252	110728	1.0436	ug/mL	99
24) Indeno[1,2,3-cd]pyrene	17.799	276	130935	1.0188	ug/mL#	100
25) Dibenz[ah]anthracene	17.796	278	105783	1.0122	ug/mL#	100
26) Benzo[ghi]perylene	18.506	276	109024	1.0154	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

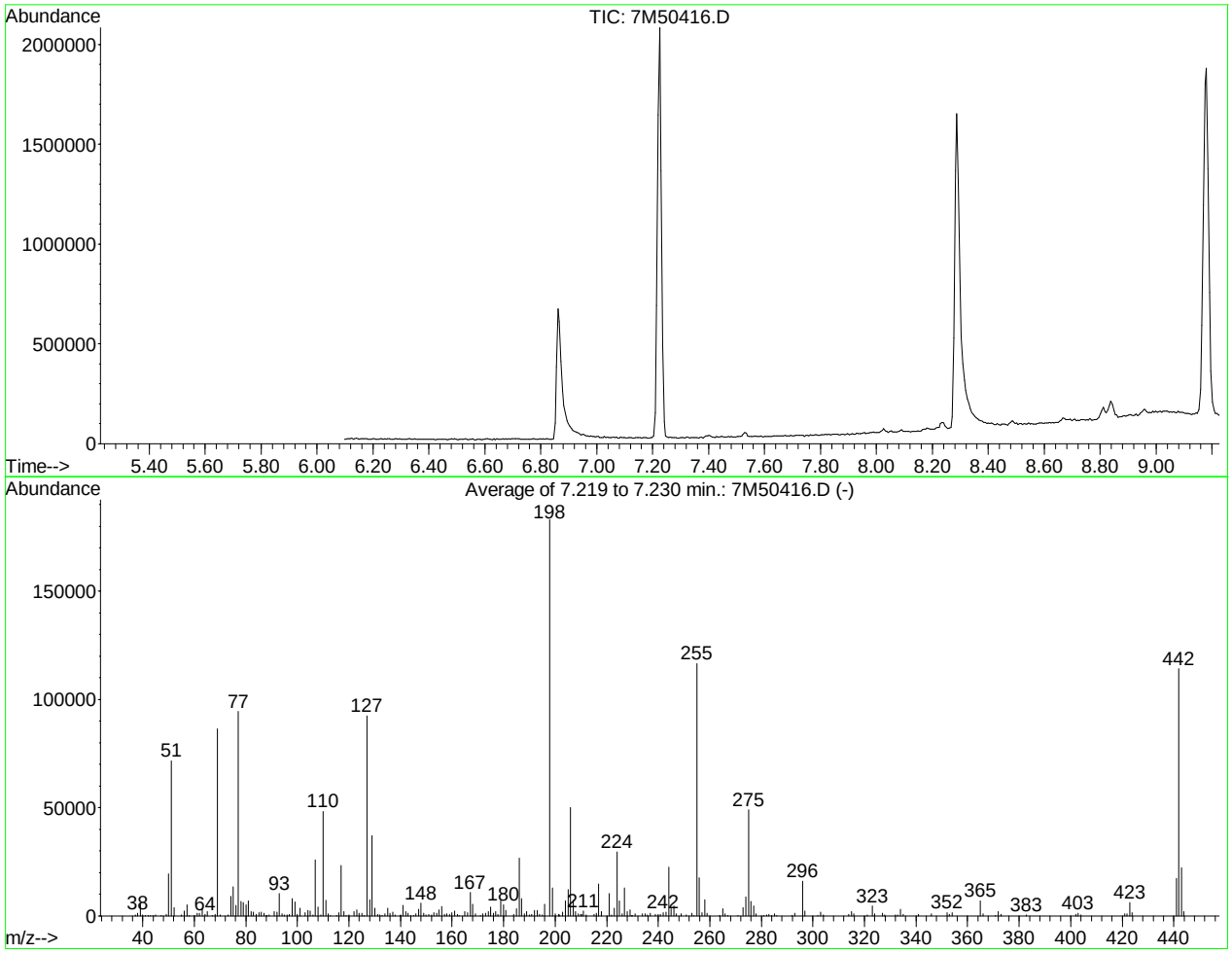
Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03983.D
Acq On : 22 Feb 2011 11:38 am
Operator : CAA
Sample : WG357220-02 1ppm PAHL STD
Misc : 1,1 STD41768
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 22 11:55:45 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 07:50:29 2011
Response via : Initial Calibration



2.1.1.5 Raw QC Data

Data File : C:\MSDCHEM\1\DATA\021111\7M50416.D Vial: 1
Acq On : 11 Feb 2011 1:13 pm Operator: CAA
Sample : WG356259-01 5ppm DFTPP Inst : HPMS7
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP



AutoFind: Scans 211, 212, 213; Background Corrected with Scan 205

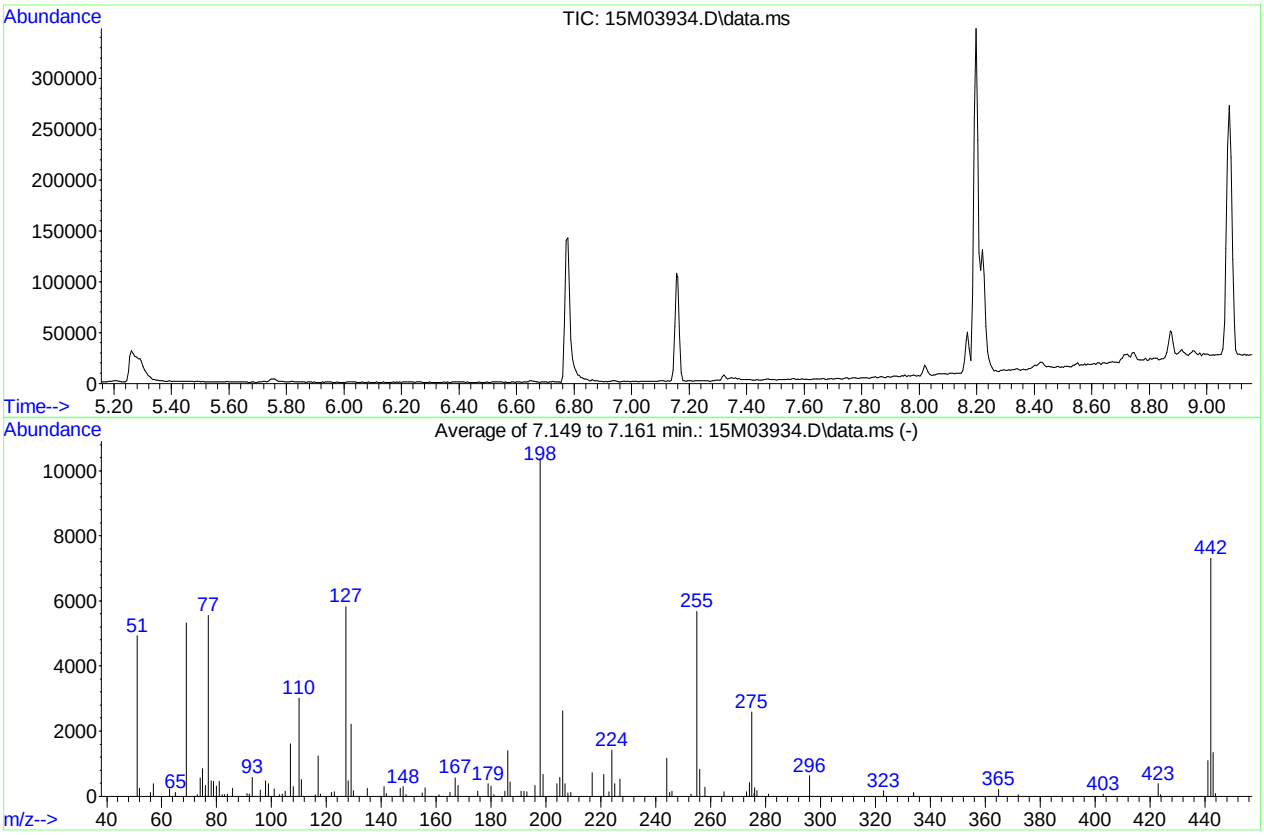
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.2	71719	PASS
68	69	0.00	2	0.8	668	PASS
69	198	0.00	100	47.2	86472	PASS
70	69	0.00	2	0.6	498	PASS
127	198	40	60	50.5	92405	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	183104	PASS
199	198	5	9	7.0	12804	PASS
275	198	10	30	26.8	48981	PASS
365	198	1	100	3.7	6848	PASS
441	443	0.01	100	78.0	17361	PASS
442	198	40	100	62.4	114272	PASS
443	442	17	23	19.5	22252	PASS

7M50416.D DFTPP.M Mon Feb 14 07:16:09 2011

Data Path : C:\msdchem\1\DATA\021511\
Data File : 15M03934.D
Acq On : 15 Feb 2011 9:19 am
Operator : CAA
Sample : WG356529-01 5ppm DFTPP STD
Misc : 1,1 STD41383
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

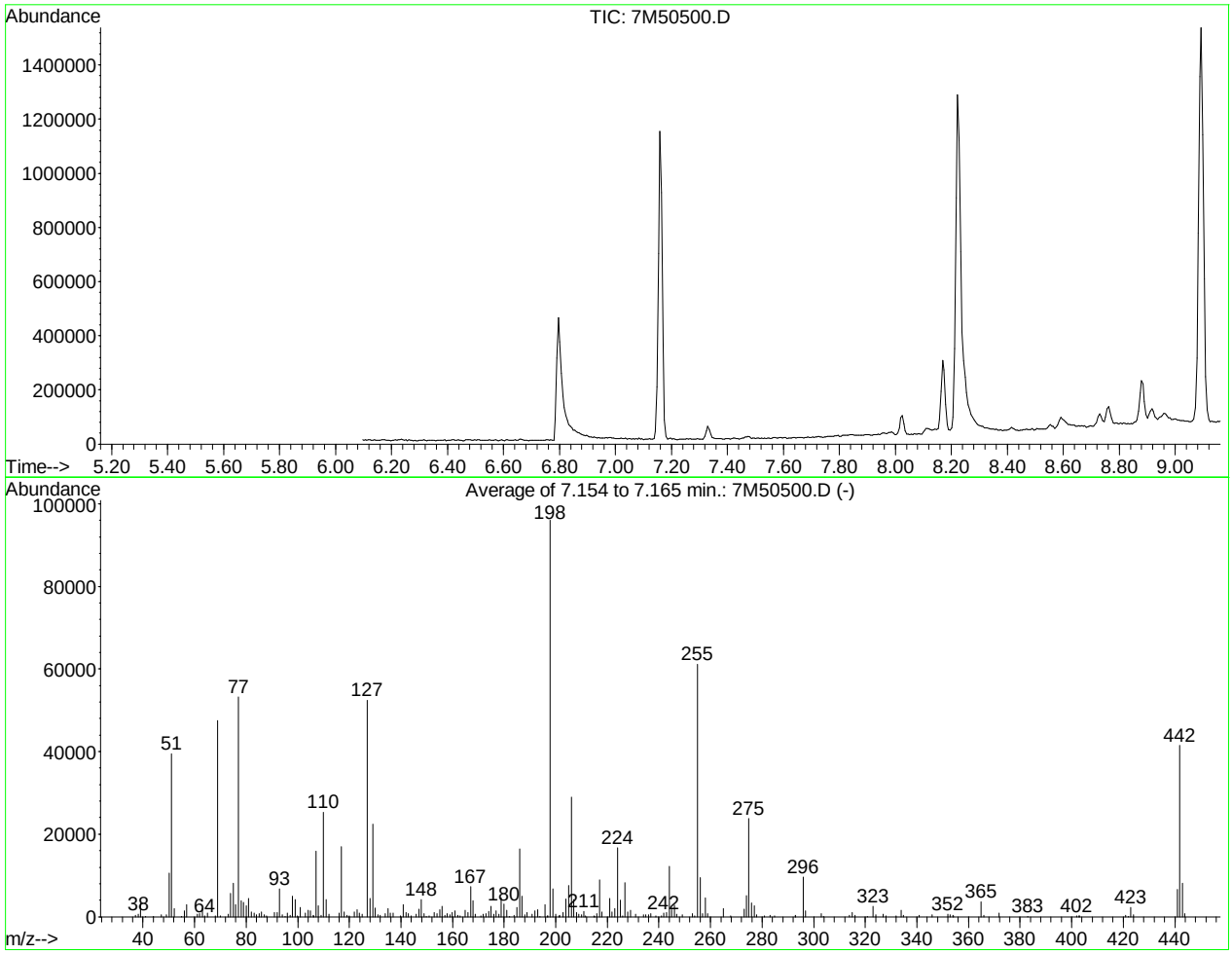
Method : C:\msdchem\1\METHODS\DFTPPQ.M
Title : DFTPP
Last Update : Mon Feb 14 14:21:44 2011



AutoFind: Scans 710, 711, 712; Background Corrected with Scan 705

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.4	4927	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.2	5320	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	56.1	5830	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	10393	PASS
199	198	5	9	6.3	659	PASS
275	198	10	30	24.9	2588	PASS
365	198	1	100	1.9	198	PASS
441	443	0.01	100	80.7	1085	PASS
442	198	40	100	70.5	7322	PASS
443	442	17	23	18.4	1344	PASS

Data File : C:\MSDCHEM\1\DATA\022111\7M50500.D Vial: 1
Acq On : 21 Feb 2011 9:29 am Operator: CAA
Sample : WG357051-01 5ppm DFTPP Inst : HPMS7
Misc : 1,1 STD41383 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP



AutoFind: Scans 199, 200, 201; Background Corrected with Scan 194

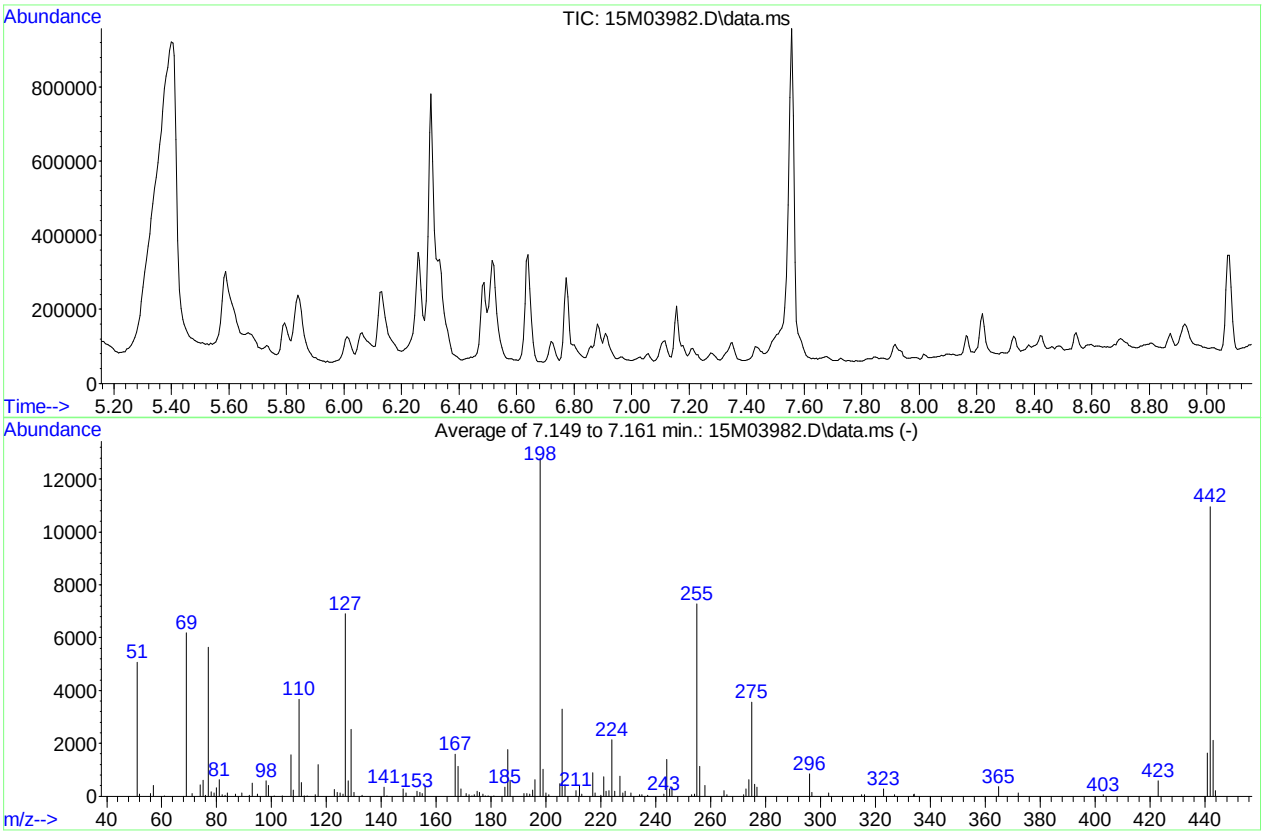
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.1	39537	PASS
68	69	0.00	2	0.6	266	PASS
69	198	0.00	100	49.5	47586	PASS
70	69	0.00	2	0.3	147	PASS
127	198	40	60	54.5	52368	PASS
197	198	0.00	1	0.2	188	PASS
198	198	100	100	100.0	96085	PASS
199	198	5	9	7.0	6748	PASS
275	198	10	30	24.8	23844	PASS
365	198	1	100	3.8	3654	PASS
441	443	0.01	100	81.3	6624	PASS
442	198	40	100	43.3	41581	PASS
443	442	17	23	19.6	8144	PASS

7M50500.D DFTPP.M Tue Feb 22 06:51:22 2011

Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03982.D
Acq On : 22 Feb 2011 11:20 am
Operator : CAA
Sample : WG357220-01 5ppm DFTPP STD
Misc : 1,1 STD41383
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\DFTPPQ.M
Title : DFTPP
Last Update : Mon Feb 14 14:21:44 2011



AutoFind: Scans 710, 711, 712; Background Corrected with Scan 705

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.6	5073	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.4	6189	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	54.0	6913	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	12799	PASS
199	198	5	9	7.9	1009	PASS
275	198	10	30	27.8	3552	PASS
365	198	1	100	2.8	353	PASS
441	443	0.01	100	76.5	1623	PASS
442	198	40	100	85.7	10966	PASS
443	442	17	23	19.3	2121	PASS

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50503.D Vial: 3
Acq On : 21 Feb 2011 10:41 am Operator: CAA
Sample : WG356898-02 BLK 02/18 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 06:52:20 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

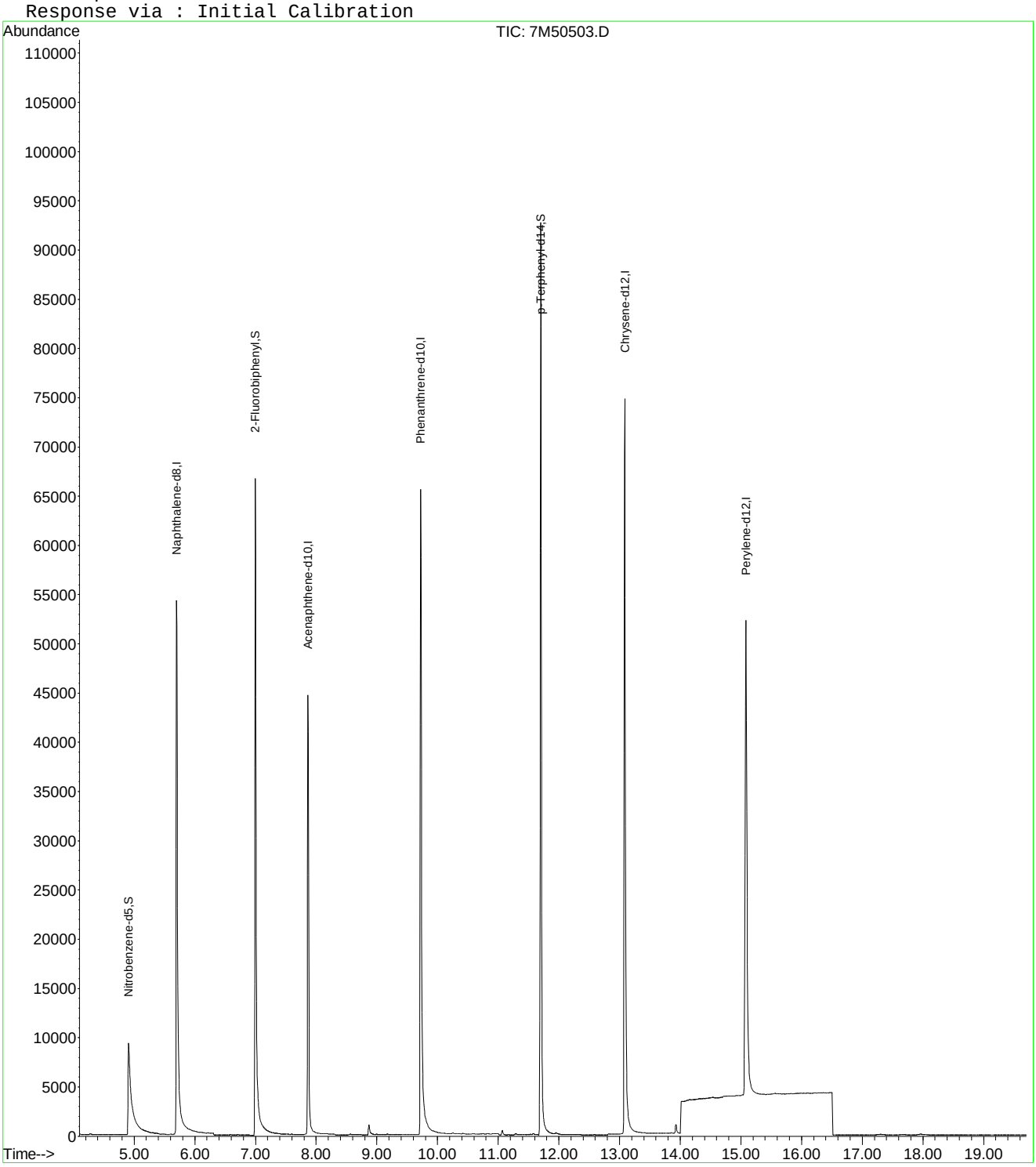
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.70	136	92580	1.00	ug/ml	0.01
6) Acenaphthene-d10	7.86	164	63477	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.72	188	101832	1.00	ug/ml	0.01
15) Chrysene-d12	13.09	240	116650	1.00	ug/ml	0.01
20) Perylene-d12	15.08	264	109921	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.91	82	24313	0.9308	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 37.20%			
7) 2-Fluorobiphenyl	7.00	172	74611	1.0254	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 41.20%			
17) p-Terphenyl-d14	11.70	244	110666	1.4012	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 56.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50503.D Vial: 3
Acq On : 21 Feb 2011 10:41 am Operator: CAA
Sample : WG356898-02 BLK 02/18 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:52 2011 Quant Results File: SIMPAHL.RES

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03984.D
Acq On : 22 Feb 2011 12:06 pm
Operator : CAA
Sample : WG357148-01 BLK 02/22
Misc : 1,1
ALS Vial : 3 Sample Multiplier: 1

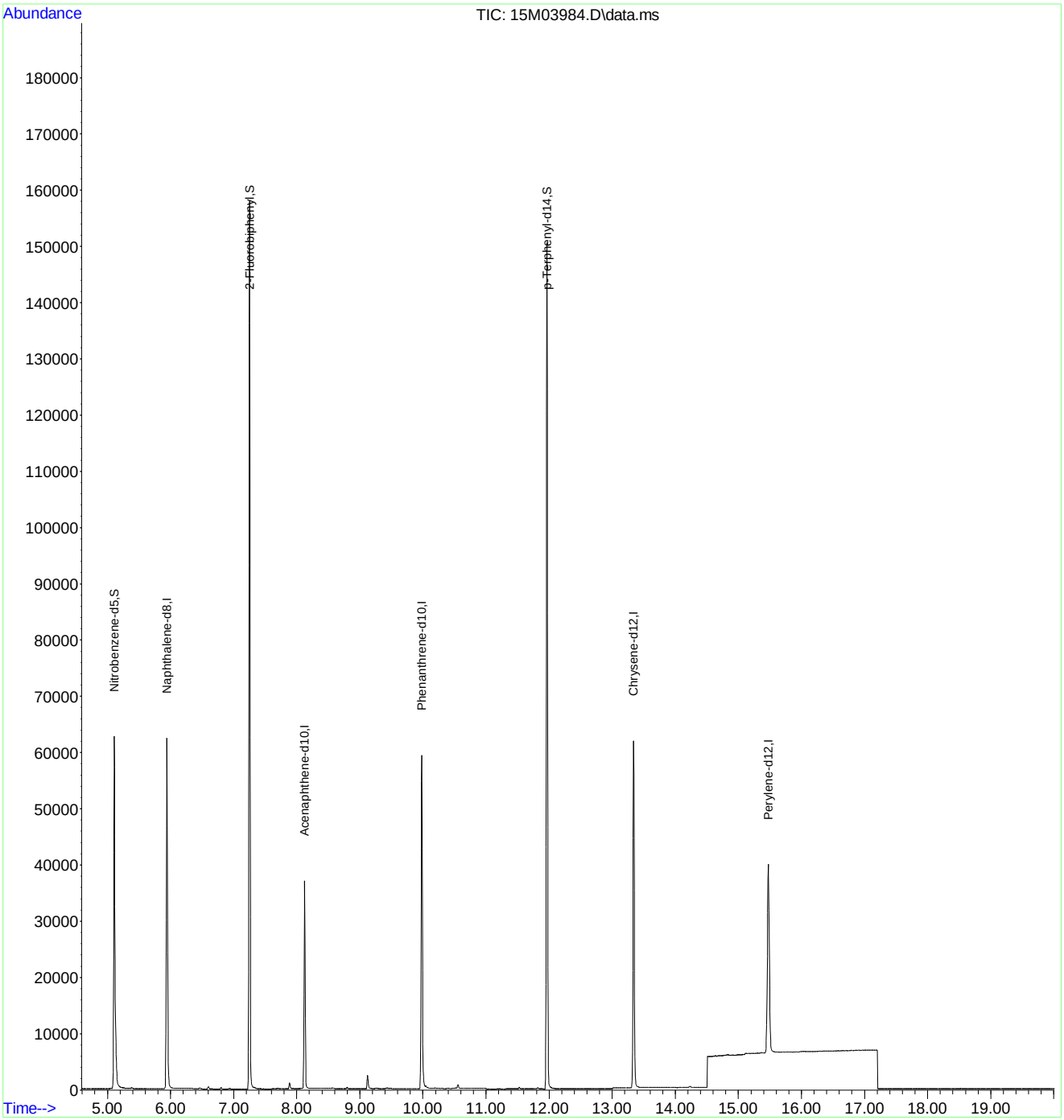
Quant Time: Feb 22 13:48:56 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 13:48:44 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.943	136	81094	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.125	164	43369	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.982	188	77323	1.00	ug/mL	0.00
15) Chrysene-d12	13.338	240	81006	1.00	ug/mL	-0.01
20) Perylene-d12	15.474	264	74410	1.00	ug/mL	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.107	82	66495	2.40	ug/mL	-0.03
Spiked Amount 2.500	Range 35 - 114		Recovery = 96.00%			
7) 2-Fluorobiphenyl	7.249	172	136877	2.39	ug/mL	-0.01
Spiked Amount 2.500	Range 43 - 116		Recovery = 95.60%			
17) p-Terphenyl-d14	11.964	244	157904	2.95	ug/mL	-0.01
Spiked Amount 2.500	Range 33 - 141		Recovery = 118.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03984.D
Acq On : 22 Feb 2011 12:06 pm
Operator : CAA
Sample : WG357148-01 BLK 02/22
Misc : 1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 13:48:56 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 13:48:44 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50504.D Vial: 4
Acq On : 21 Feb 2011 11:08 am Operator: CAA
Sample : WG356898-03 LCS 02/18 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 06:52:20 2011 Quant Results File: SIMPAHL.RES

Quant Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration
DataAcq Meth : PAHLSIM

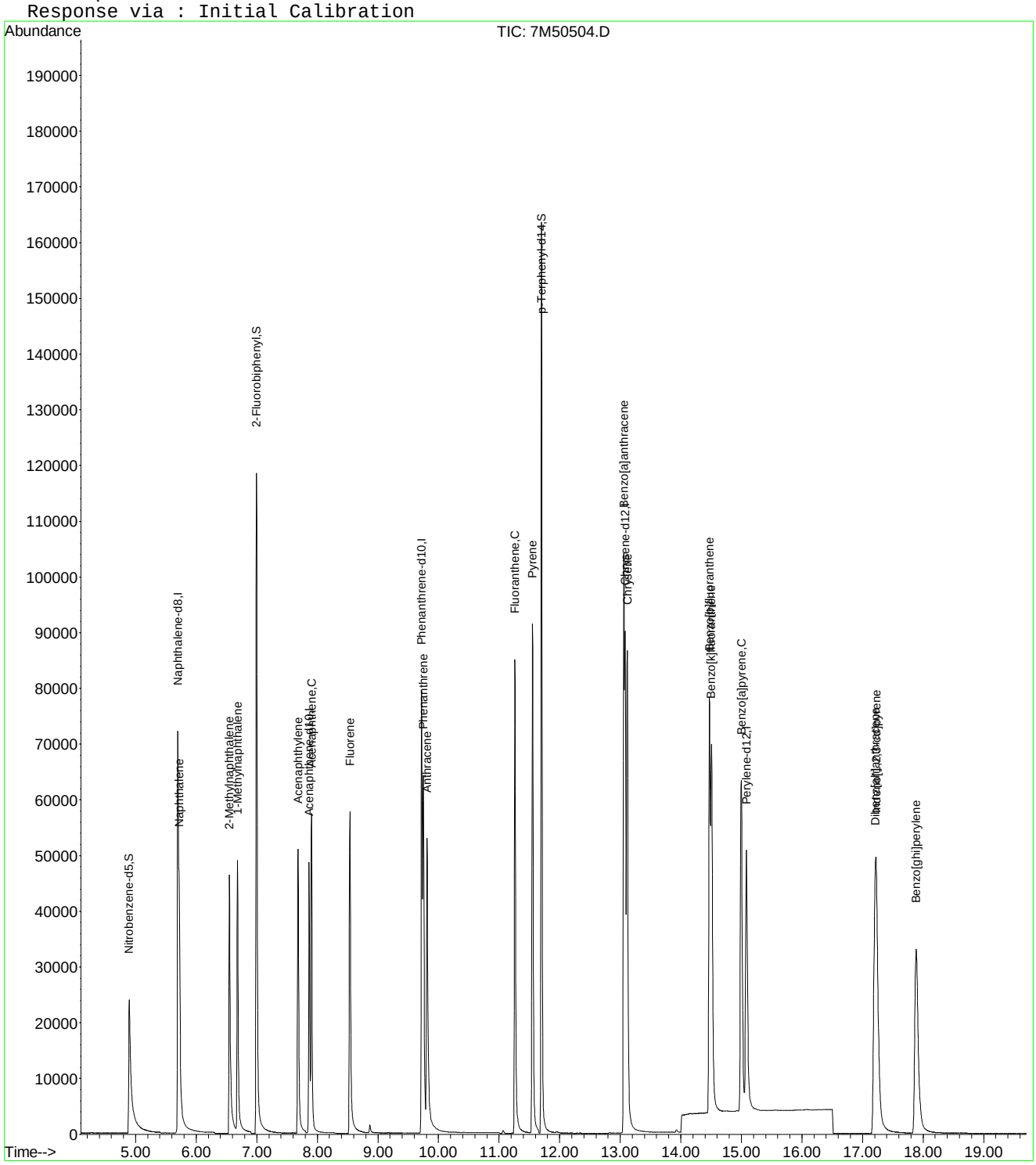
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	5.70	136	100520	1.00	ug/ml	0.01
6) Acenaphthene-d10	7.86	164	64016	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.72	188	105425	1.00	ug/ml	0.01
15) Chrysene-d12	13.08	240	115043	1.00	ug/ml	0.00
20) Perylene-d12	15.09	264	107799	1.00	ug/ml	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	4.89	82	48884	1.7237	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 68.80%			
7) 2-Fluorobiphenyl	6.99	172	121958	1.6621	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 66.40%			
17) p-Terphenyl-d14	11.70	244	191393	2.4572	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 98.40%			
Target Compounds						Qvalue
3) Naphthalene	5.72	128	57989	0.6107	ug/ml	100
4) 2-Methylnaphthalene	6.55	142	40457	0.6610	ug/ml	100
5) 1-Methylnaphthalene	6.68	142	38285	0.6219	ug/ml	99
8) Acenaphthylene	7.68	152	60865	0.5243	ug/ml	100
9) Acenaphthene	7.91	154	38622	0.5878	ug/ml	99
10) Fluorene	8.54	166	45926	0.6053	ug/ml	100
12) Phenanthrene	9.75	178	75851	0.7405	ug/ml	100
13) Anthracene	9.81	178	71019	0.7969	ug/ml	99
14) Fluoranthene	11.26	202	104618	0.8859	ug/ml	100
16) Pyrene	11.55	202	119815	0.8416	ug/ml	99
18) Benzo[a]anthracene	13.06	228	104494	0.8628	ug/ml	97
19) Chrysene	13.12	228	107210	0.8648	ug/ml	100
21) Benzo[b]fluoranthene	14.47	252	108356	0.9520	ug/ml	90
22) Benzo[k]fluoranthene	14.50	252	107794m	0.8069	ug/ml	
23) Benzo[a]pyrene	15.00	252	108510	0.9245	ug/ml	100
24) Indeno[1,2,3-cd]pyrene	17.23	276	131554	0.9105	ug/ml	100
25) Dibenz[ah]anthracene	17.20	278	109557	0.9074	ug/ml	100
26) Benzo[ghi]perylene	17.88	276	108548	0.8829	ug/ml	98

(#) = qualifier out of range (m) = manual integration
7M50504.D SIMPAHL.M Tue Feb 22 06:57:48 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\7M50504.D Vial: 4
Acq On : 21 Feb 2011 11:08 am Operator: CAA
Sample : WG356898-03 LCS 02/18 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:54 2011 Quant Results File: SIMPAHL.RES

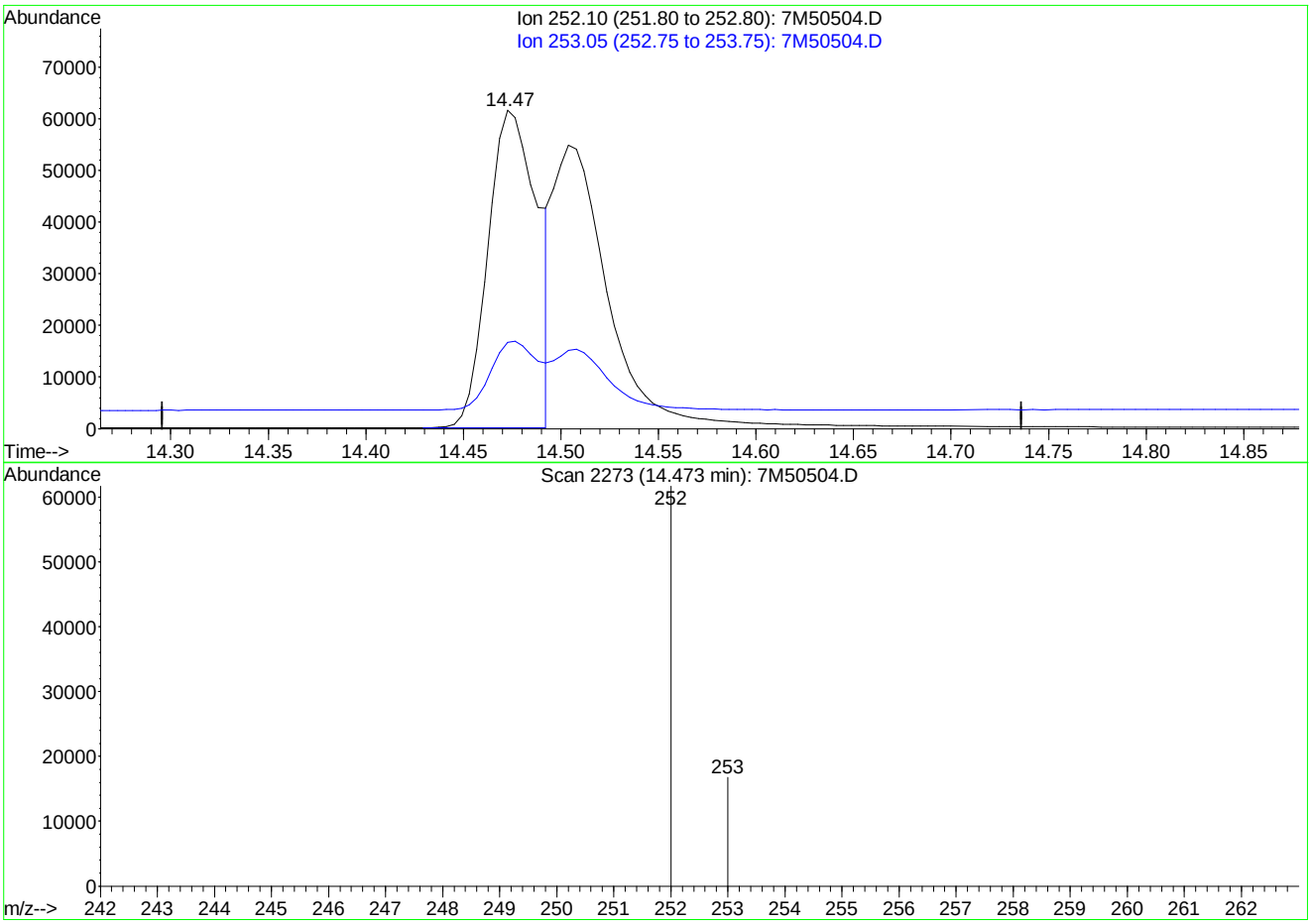
Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50504.D Vial: 4
Acq On : 21 Feb 2011 11:08 am Operator: CAA
Sample : WG356898-03 LCS 02/18 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:52 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration



TIC: 7M50504.D

(22) Benzo[k]fluoranthene

14.47min 0.81ug/ml

response 108356

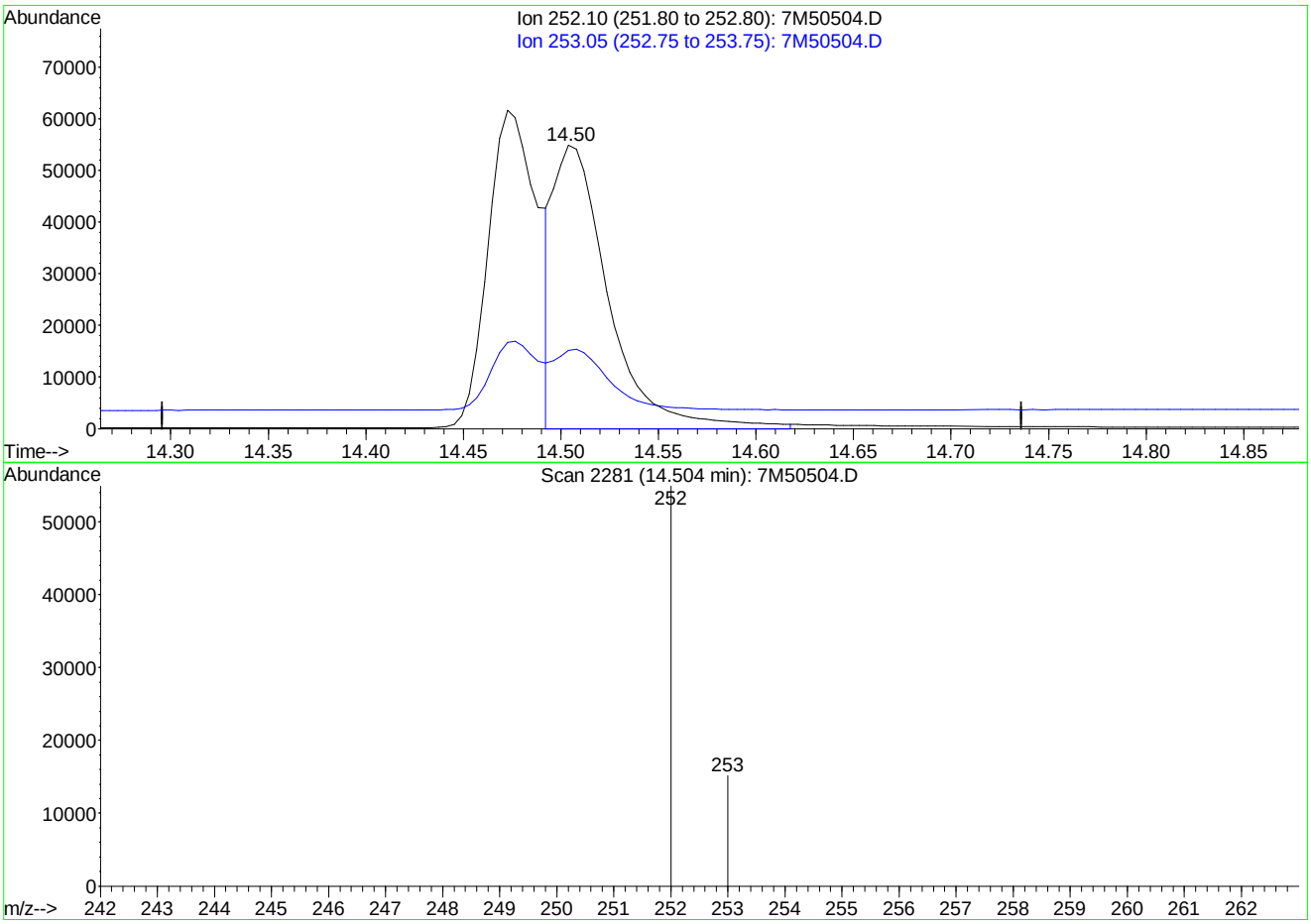
Ion	Exp%	Act%
252.10	100	100
253.05	26.00	20.77
0.00	0.00	0.00
0.00	0.00	0.00

7M50504.D SIMPAHL.M Tue Feb 22 06:54:02 2011

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\022111\7M50504.D Vial: 4
Acq On : 21 Feb 2011 11:08 am Operator: CAA
Sample : WG356898-03 LCS 02/18 Inst : HPMS7
Misc : 7,1 SOIL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 22 6:54 2011 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\SIMPAHL.M (RTE Integrator)
Title : OVD MSS03 SIMPAHL ICAL 02/11/11
Last Update : Tue Feb 22 06:51:58 2011
Response via : Multiple Level Calibration



TIC: 7M50504.D

(22) Benzo[k]fluoranthene

14.50min 0.81ug/ml mint

response 107794

Ion	Exp%	Act%
252.10	100	100
253.05	26.00	20.88
0.00	0.00	0.00
0.00	0.00	0.00

7M50504.D SIMPAHL.M Tue Feb 22 06:54:07 2011

Analyst: 02/22/2011 07:36 Supervisor: 02/22/2011 15:12

#3 - Improperly integrated isomers and/or coeluting compounds

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03985.D
Acq On : 22 Feb 2011 12:34 pm
Operator : CAA
Sample : WG357148-02 LCS 02/22
Misc : 1,1
ALS Vial : 4 Sample Multiplier: 1

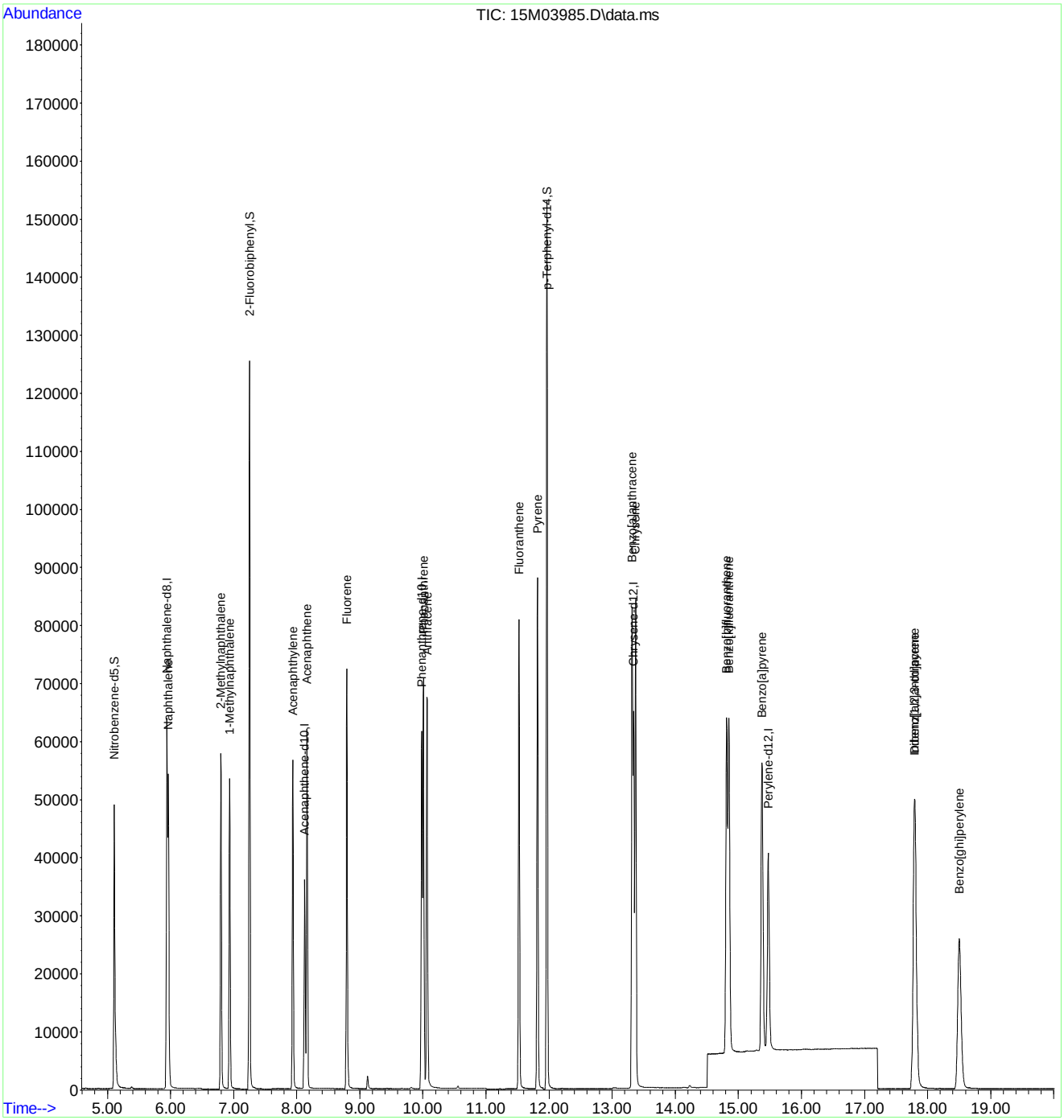
Quant Time: Feb 22 13:48:58 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 13:48:44 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.943	136	80327	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.125	164	43847	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.982	188	77630	1.00	ug/mL	0.00
15) Chrysene-d12	13.338	240	81906	1.00	ug/mL	-0.01
20) Perylene-d12	15.474	264	74803	1.00	ug/mL	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.107	82	52114	1.90	ug/mL	-0.03
Spiked Amount 2.500	Range 35 - 114		Recovery = 76.00%			
7) 2-Fluorobiphenyl	7.249	172	111282	1.92	ug/mL	-0.01
Spiked Amount 2.500	Range 43 - 116		Recovery = 76.80%			
17) p-Terphenyl-d14	11.964	244	158691	2.94	ug/mL	-0.01
Spiked Amount 2.500	Range 33 - 141		Recovery = 117.60%			
Target Compounds						Qvalue
3) Naphthalene	5.964	128	56594	0.6929	ug/mL	100
4) 2-Methylnaphthalene	6.797	142	38166	0.6954	ug/mL	100
5) 1-Methylnaphthalene	6.936	142	35140	0.6414	ug/mL	97
8) Acenaphthylene	7.938	152	59479	0.7538	ug/mL	98
9) Acenaphthene	8.163	154	37376	0.7372	ug/mL	98
10) Fluorene	8.794	166	46424	0.7624	ug/mL	100
12) Phenanthrene	10.009	178	76866	0.8814	ug/mL	100
13) Anthracene	10.068	178	76940	0.9721	ug/mL	99
14) Fluoranthene	11.522	202	89563	0.9891	ug/mL	100
16) Pyrene	11.816	202	96165	1.0193	ug/mL	99
18) Benzo[a]anthracene	13.317	228	84361	1.0245	ug/mL	100
19) Chrysene	13.370	228	86675	1.0541	ug/mL	100
21) Benzo[b]fluoranthene	14.813	252	90355	1.0534	ug/mL	100
22) Benzo[k]fluoranthene	14.850	252	84555	1.0574	ug/mL	100
23) Benzo[a]pyrene	15.372	252	87670	1.0901	ug/mL	98
24) Indeno[1,2,3-cd]pyrene	17.796	276	98310	1.0092	ug/mL#	100
25) Dibenz[ah]anthracene	17.792	278	77408	0.9773	ug/mL#	100
26) Benzo[ghi]perylene	18.502	276	80459	0.9887	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03985.D
Acq On : 22 Feb 2011 12:34 pm
Operator : CAA
Sample : WG357148-02 LCS 02/22
Misc : 1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 22 13:48:58 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 13:48:44 2011
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03986.D
Acq On : 22 Feb 2011 1:02 pm
Operator : CAA
Sample : WG357148-03 LCS DUP 02/22
Misc : 1,1
ALS Vial : 5 Sample Multiplier: 1

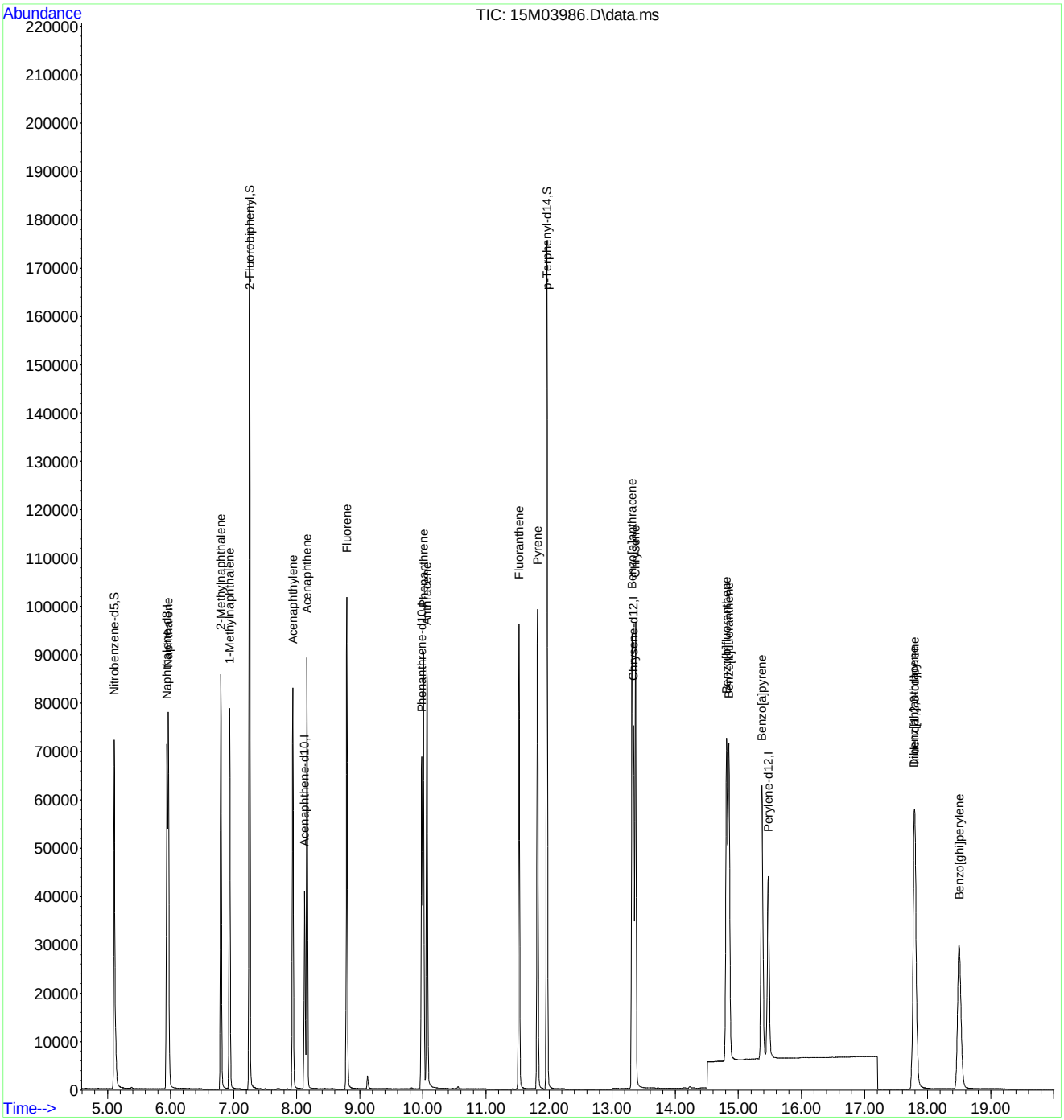
Quant Time: Feb 22 13:49:00 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 13:48:44 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.943	136	89115	1.00	ug/mL	0.00
6) Acenaphthene-d10	8.125	164	48648	1.00	ug/mL	0.00
11) Phenanthrene-d10	9.982	188	85740	1.00	ug/mL	0.00
15) Chrysene-d12	13.338	240	90835	1.00	ug/mL	-0.01
20) Perylene-d12	15.474	264	82230	1.00	ug/mL	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.107	82	76046	2.50	ug/mL	-0.03
Spiked Amount 2.500	Range 35 - 114		Recovery = 100.00%			
7) 2-Fluorobiphenyl	7.249	172	160616	2.50	ug/mL	-0.01
Spiked Amount 2.500	Range 43 - 116		Recovery = 100.00%			
17) p-Terphenyl-d14	11.964	244	182989	3.05	ug/mL	-0.01
Spiked Amount 2.500	Range 33 - 141		Recovery = 122.00%			
Target Compounds						Qvalue
3) Naphthalene	5.964	128	82870	0.9146	ug/mL	100
4) 2-Methylnaphthalene	6.797	142	55512	0.9117	ug/mL	100
5) 1-Methylnaphthalene	6.936	142	52247	0.8596	ug/mL	98
8) Acenaphthylene	7.938	152	85381	0.9752	ug/mL	98
9) Acenaphthene	8.163	154	53293	0.9474	ug/mL	98
10) Fluorene	8.794	166	64564	0.9557	ug/mL	100
12) Phenanthrene	10.009	178	95688	0.9935	ug/mL	100
13) Anthracene	10.063	178	96517	1.1041	ug/mL	99
14) Fluoranthene	11.522	202	105036	1.0502	ug/mL	100
16) Pyrene	11.816	202	111722	1.0677	ug/mL	99
18) Benzo[a]anthracene	13.317	228	97075	1.0630	ug/mL	100
19) Chrysene	13.370	228	99544	1.0916	ug/mL	100
21) Benzo[b]fluoranthene	14.813	252	105105	1.1147	ug/mL	100
22) Benzo[k]fluoranthene	14.846	252	96763	1.1007	ug/mL	100
23) Benzo[a]pyrene	15.372	252	101469	1.1478	ug/mL	99
24) Indeno[1,2,3-cd]pyrene	17.792	276	113401	1.0590	ug/mL#	100
25) Dibenz[ah]anthracene	17.788	278	90116	1.0349	ug/mL#	100
26) Benzo[ghi]perylene	18.499	276	93537	1.0456	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\022211\
Data File : 15M03986.D
Acq On : 22 Feb 2011 1:02 pm
Operator : CAA
Sample : WG357148-03 LCS DUP 02/22
Misc : 1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 22 13:49:00 2011
Quant Method : C:\msdchem\1\METHODS\PAHQUANT.M
Quant Title : OVD MSS03 PAHSIM/ICAL 02/15/11
QLast Update : Tue Feb 22 13:48:44 2011
Response via : Initial Calibration



2.1.2 Pesticide GC Data (8081)

2.1.2.1 Summary Data

Microbac Laboratories Inc.
GC PESTICIDES

Microbac Login No: L11020447

METHOD

Preparation: SW- 846 3550B(Soils)/3510C(Waters)/3580A (Waste dilution)

Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Labortory Control Sample: The LCS WG356900-03 and WG356900-04 yielded % recoveries for the surrogate 2,4,5,6-tetrachloro-m-xylene that were below the acceptance limit. All other acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Surrogates: Samples 01REF, 03MS, and 04MSD yielded % recoveries for 2,4,5,6-tetrachloro-m-xylene that were below the acceptance limit. Samples 02, 06, and 07 yielded % recoveries for both surrogates that were below the acceptance limits. All other acceptance criteria were met.

Endrin/DDT Breakdown: All acceptance criteria were met.

Samples: Samples with low surrogate recoveries were not re-extracted at the clients request. For all samples which yielded results with an RPD of greater than 40% between the primary and confirmation column the appropriate flag was applied. All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

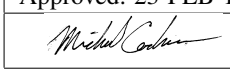
Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL

Approved: 23-FEB-11



LABORATORY REPORT

L11020447

03/01/11 15:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SITE #1-TPS-2-16-11-COMP	L11020447-01	8081A	1	17-FEB-11
SITE #1-2-16-11-DUP	L11020447-02	8081A	1	17-FEB-11
SITE #1-2-16-11-MS	L11020447-03	8081A	1	17-FEB-11
SITE #1-2-16-11-MSD	L11020447-04	8081A	1	17-FEB-11
SITE #1-2-16-11-FB	L11020447-05	8081A	1	17-FEB-11
SITE #1-2-16-11-CLAY-C	L11020447-06	8081A	1	17-FEB-11
SITE #1-2-16-11-CLAY-C-2	L11020447-07	8081A	1	17-FEB-11

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-01	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	SITE #1-TPS-2-16-11-COMP	Prep Method:	3550B	Prep Date:	02/18/2011 09:36
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	02/18/2011 23:19
Workgroup Number:	WG357023	Analyst:	ECL	Run Date:	02/22/2011 16:47
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	15G25181.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	1.91	0.382
4,4'-DDE	72-55-9		U	1.91	0.382
4,4'-DDT	50-29-3		U	1.91	0.382
Aldrin	309-00-2		U	1.91	0.382
alpha Chlordane	5103-71-9		U	1.91	0.382
alpha-BHC	319-84-6		U	1.91	0.382
beta-BHC	319-85-7		U	1.91	0.382
delta-BHC	319-86-8		U	1.91	0.382
Endosulfan I	959-98-8		U	1.91	0.382
Endosulfan II	33213-65-9		U	1.91	0.382
Endosulfan sulfate	1031-07-8		U	1.91	0.382
Endrin	72-20-8		U	1.91	0.382
Endrin aldehyde	7421-93-4		U	1.91	0.382
Endrin ketone	53494-70-5		U	1.91	0.382
gamma Chlordane	5103-74-2		U	1.91	0.382
gamma-BHC (Lindane)	58-89-9		U	1.91	0.382
Heptachlor	76-44-8		U	1.91	0.382
Heptachlor epoxide	1024-57-3		U	1.91	0.382
Methoxychlor	72-43-5		U	1.91	0.382
Toxaphene	8001-35-2		U	38.2	19.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	61.4	70	125	*
Decachlorobiphenyl	56.2	55	130	

* Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 18:12**
File ID: **15G25184.F**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	1.91	0.381
4,4'-DDE	72-55-9		U	1.91	0.381
4,4'-DDT	50-29-3		U	1.91	0.381
Aldrin	309-00-2		U	1.91	0.381
alpha Chlordane	5103-71-9		U	1.91	0.381
alpha-BHC	319-84-6		U	1.91	0.381
beta-BHC	319-85-7		U	1.91	0.381
delta-BHC	319-86-8		U	1.91	0.381
Dieldrin	60-57-1		U	1.91	0.381
Endosulfan I	959-98-8		U	1.91	0.381
Endosulfan II	33213-65-9		U	1.91	0.381
Endosulfan sulfate	1031-07-8		U	1.91	0.381
Endrin	72-20-8		U	1.91	0.381
Endrin aldehyde	7421-93-4		U	1.91	0.381
Endrin ketone	53494-70-5		U	1.91	0.381
gamma Chlordane	5103-74-2		U	1.91	0.381
gamma-BHC (Lindane)	58-89-9		U	1.91	0.381
Heptachlor	76-44-8		U	1.91	0.381
Heptachlor epoxide	1024-57-3		U	1.91	0.381
Methoxychlor	72-43-5		U	1.91	0.381
Toxaphene	8001-35-2		U	38.1	19.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	56.9	70	125	*
Decachlorobiphenyl	49.6	55	130	*

* Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-03	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	SITE #1-2-16-11-MS	Prep Method:	3550B	Prep Date:	02/18/2011 09:36
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	02/18/2011 23:19
Workgroup Number:	WG357023	Analyst:	ECL	Run Date:	02/22/2011 17:16
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	15G25182.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8	16.1		1.96	0.392
4,4'-DDE	72-55-9	16.5		1.96	0.392
4,4'-DDT	50-29-3	16.7		1.96	0.392
Aldrin	309-00-2	15.2		1.96	0.392
alpha Chlordane	5103-71-9	15.4		1.96	0.392
alpha-BHC	319-84-6	16.6		1.96	0.392
beta-BHC	319-85-7	16.0		1.96	0.392
delta-BHC	319-86-8	16.7		1.96	0.392
Dieldrin	60-57-1	16.4		1.96	0.392
Endosulfan I	959-98-8	13.1		1.96	0.392
Endosulfan II	33213-65-9	13.7		1.96	0.392
Endosulfan sulfate	1031-07-8	17.8		1.96	0.392
Endrin	72-20-8	17.3		1.96	0.392
Endrin aldehyde	7421-93-4	13.4		1.96	0.392
Endrin ketone	53494-70-5	16.5		1.96	0.392
gamma Chlordane	5103-74-2	15.7		1.96	0.392
gamma-BHC (Lindane)	58-89-9	16.7		1.96	0.392
Heptachlor	76-44-8	14.5		1.96	0.392
Heptachlor epoxide	1024-57-3	13.3		1.96	0.392
Methoxychlor	72-43-5	16.6		1.96	0.392
Toxaphene	8001-35-2		U	39.2	19.8

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	67.2	70	125	*
Decachlorobiphenyl	66.1	55	130	

* Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-04	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	SITE #1-2-16-11-MSD	Prep Method:	3550B	Prep Date:	02/18/2011 09:36
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	02/18/2011 23:19
Workgroup Number:	WG357023	Analyst:	ECL	Run Date:	02/22/2011 17:44
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	15G25183.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8	16.4		1.93	0.387
4,4'-DDE	72-55-9	16.9		1.93	0.387
4,4'-DDT	50-29-3	17.1		1.93	0.387
Aldrin	309-00-2	15.5		1.93	0.387
alpha Chlordane	5103-71-9	15.7		1.93	0.387
alpha-BHC	319-84-6	16.4		1.93	0.387
beta-BHC	319-85-7	16.0		1.93	0.387
delta-BHC	319-86-8	16.6		1.93	0.387
Dieldrin	60-57-1	17.1		1.93	0.387
Endosulfan I	959-98-8	13.1		1.93	0.387
Endosulfan II	33213-65-9	13.7		1.93	0.387
Endosulfan sulfate	1031-07-8	17.5		1.93	0.387
Endrin	72-20-8	17.2		1.93	0.387
Endrin aldehyde	7421-93-4	13.3		1.93	0.387
Endrin ketone	53494-70-5	16.3		1.93	0.387
gamma Chlordane	5103-74-2	15.7		1.93	0.387
gamma-BHC (Lindane)	58-89-9	16.5		1.93	0.387
Heptachlor	76-44-8	15.2		1.93	0.387
Heptachlor epoxide	1024-57-3	14.2		1.93	0.387
Methoxychlor	72-43-5	17.0		1.93	0.387
Toxaphene	8001-35-2		U	38.7	19.6

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	64.0	70	125	*
Decachlorobiphenyl	63.1	55	130	

* Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-05	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	SITE #1-2-16-11-FB	Prep Method:	3510C	Prep Date:	02/18/2011 09:00
Matrix:	Water	Analytical Method:	8081A	Cal Date:	02/18/2011 23:19
Workgroup Number:	WG357013	Analyst:	ECL	Run Date:	02/19/2011 15:38
Collect Date:	02/16/2011 12:20	Dilution:	1	File ID:	15G25086.F
Sample Tag:	01	Units:	ug/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	0.0562	0.0112
4,4'-DDE	72-55-9		U	0.0562	0.0112
4,4'-DDT	50-29-3		U	0.0562	0.0112
Aldrin	309-00-2		U	0.0562	0.0112
alpha Chlordane	5103-71-9		U	0.0562	0.0112
alpha-BHC	319-84-6		U	0.0562	0.0112
beta-BHC	319-85-7		U	0.0562	0.0112
delta-BHC	319-86-8		U	0.0562	0.0112
Dieldrin	60-57-1		U	0.0562	0.0112
Endosulfan I	959-98-8		U	0.0562	0.0112
Endosulfan II	33213-65-9		U	0.0562	0.0112
Endosulfan sulfate	1031-07-8		U	0.0562	0.0112
Endrin	72-20-8		U	0.0562	0.0112
Endrin aldehyde	7421-93-4		U	0.0562	0.0112
Endrin ketone	53494-70-5		U	0.0562	0.0112
gamma Chlordane	5103-74-2		U	0.0562	0.0112
gamma-BHC (Lindane)	58-89-9		U	0.0562	0.0112
Heptachlor	76-44-8		U	0.0562	0.0112
Heptachlor epoxide	1024-57-3		U	0.0562	0.0112
Methoxychlor	72-43-5		U	0.0562	0.0112
Toxaphene	8001-35-2		U	1.12	0.337

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	74.6	25	140	
Decachlorobiphenyl	61.3	30	135	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-06	PrePrep Method:	NONE	Instrument:	HP15
Client ID:	SITE #1-2-16-11-CLAY-C	Prep Method:	3550B	Prep Date:	02/18/2011 09:36
Matrix:	Soil	Analytical Method:	8081A	Cal Date:	02/18/2011 23:19
Workgroup Number:	WG357023	Analyst:	ECL	Run Date:	02/22/2011 18:41
Collect Date:	02/16/2011 12:40	Dilution:	1	File ID:	15G25185.F
Sample Tag:	01	Units:	ug/kg	Percent Solid:	81.7

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	2.02	0.404
4,4'-DDE	72-55-9		U	2.02	0.404
4,4'-DDT	50-29-3		U	2.02	0.404
Aldrin	309-00-2		U	2.02	0.404
alpha Chlordane	5103-71-9		U	2.02	0.404
alpha-BHC	319-84-6		U	2.02	0.404
beta-BHC	319-85-7		U	2.02	0.404
delta-BHC	319-86-8		U	2.02	0.404
Dieldrin	60-57-1		U	2.02	0.404
Endosulfan I	959-98-8		U	2.02	0.404
Endosulfan II	33213-65-9		U	2.02	0.404
Endosulfan sulfate	1031-07-8		U	2.02	0.404
Endrin	72-20-8		U	2.02	0.404
Endrin aldehyde	7421-93-4		U	2.02	0.404
Endrin ketone	53494-70-5		U	2.02	0.404
gamma Chlordane	5103-74-2		U	2.02	0.404
gamma-BHC (Lindane)	58-89-9		U	2.02	0.404
Heptachlor	76-44-8		U	2.02	0.404
Heptachlor epoxide	1024-57-3		U	2.02	0.404
Methoxychlor	72-43-5		U	2.02	0.404
Toxaphene	8001-35-2		U	40.4	20.4

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	56.5	70	125	*
Decachlorobiphenyl	54.7	55	130	*

* Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-07**
Client ID: **SITE #1-2-16-11-CLAY-C-2**
Matrix: **Soil**
Workgroup Number: **WG357023**
Collect Date: **02/16/2011 12:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8081A**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP15**
Prep Date: **02/18/2011 09:36**
Cal Date: **02/18/2011 23:19**
Run Date: **02/22/2011 19:09**
File ID: **15G25186.F**
Percent Solid: **78.9**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
4,4'-DDD	72-54-8		U	2.06	0.411
4,4'-DDE	72-55-9		U	2.06	0.411
4,4'-DDT	50-29-3		U	2.06	0.411
Aldrin	309-00-2		U	2.06	0.411
alpha Chlordane	5103-71-9		U	2.06	0.411
alpha-BHC	319-84-6		U	2.06	0.411
beta-BHC	319-85-7		U	2.06	0.411
delta-BHC	319-86-8		U	2.06	0.411
Dieldrin	60-57-1		U	2.06	0.411
Endosulfan I	959-98-8		U	2.06	0.411
Endosulfan II	33213-65-9		U	2.06	0.411
Endosulfan sulfate	1031-07-8		U	2.06	0.411
Endrin	72-20-8		U	2.06	0.411
Endrin aldehyde	7421-93-4		U	2.06	0.411
Endrin ketone	53494-70-5		U	2.06	0.411
gamma Chlordane	5103-74-2		U	2.06	0.411
gamma-BHC (Lindane)	58-89-9		U	2.06	0.411
Heptachlor	76-44-8		U	2.06	0.411
Heptachlor epoxide	1024-57-3		U	2.06	0.411
Methoxychlor	72-43-5		U	2.06	0.411
Toxaphene	8001-35-2		U	41.1	20.8

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	54.9	70	125	*
Decachlorobiphenyl	54.6	55	130	*

* Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

2.1.2.2 QC Summary Data

Example 8081 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = \frac{As}{Cs}$$

where:	Example:
A_s = Area of the compound being measured in the standard	10000
C_s = Concentration of the compound being measured (ng/mL)	100
	RF = 100

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Vi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Vi = Initial volume of sample (mL). (prep log)	1000
	C(ug/L) = 0.1

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Wi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Wi = Initial weight of sample (g).	30
	C(ug/kg) = 3.333333

* Concentrations appearing on instrument quantitation reports are on-column results and do not take into account initial volume, final volume and dilution factor.

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG356905
Analyst: RAH
Spike Analyst: RAH
Method: 3510C
Run Date: 02/18/2011 09:00
SOP: EXP01 Revison 13
Spike Witness: CPD
Surr Solution: STD43926

Methylene Chloride Lot #: COA15249
Hexane Lot #: COA15073
Sodium Sulfate,Anhydrous,Granular (Lot #: COA14988
Florisil Disposable Column Lot #: COA15102
94:6 Hexane:Ether Lot #: RGT15669
50:50 Hexane:Ether Lot #: RGT15509

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11020354-01	SAMP		N	8081-TC	100 mL	.2 mL			10 mL	Transparent
2	L11020354-02	SAMP		N	8081-TC	100 mL	.2 mL			10 mL	Transparent
3	L11020378-01	SAMP		N	8081-TC	100 mL	.2 mL			10 mL	Transparent
4	L11020434-01	SAMP		N	8081	1000 mL	.2 mL			10 mL	Transparent
5	L11020447-05	SAMP		N	8081	890 mL	.2 mL			10 mL	Transparent
6	WG356905-01	BLANK		N	8081	1000 mL	.2 mL			10 mL	Transparent
7	WG356905-02	LCS		N	8081	1000 mL	.2 mL	.25 mL	STD42746	10 mL	Transparent
8	WG356905-03	LCS2		N	8081	1000 mL	.2 mL	.25 mL	STD42746	10 mL	Transparent
9	WG356905-04	LCS_TOX		N	8081	1000 mL	.2 mL	.1 mL	STD43919	10 mL	Transparent
10	WG356906-01	FBLK		N	8081-TC	100 mL	.2 mL			10 mL	Transparent

Due to insufficient sample volume, this preparation batch failed to include the method prescribed MS and MSD.

L11020354-01	TC EXTRACT FROM ANOTHER LAB
L11020354-02	TC EXTRACT FROM ANOTHER LAB

Clean-ups	
Florisil	3620B

Analyst: [signature]

Reviewer: Cheryl A. Flowers

EXTRACT - Modified 10/22/2008
PDF ID: 1923571
Report generated: 02/18/2011 14:30

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG356900
Analyst: CAF
Spike Analyst: CAF
Method: 3550B
Run Date: 02/18/2011 09:36
SOP: EXP02 Revison 15
Spike Witness: CPD
Surr Solution: STD43926

Hexane Lot #: COA15073
Purified Lab Sand Lot #: COA14882
Na2SO4, Anhydrous,Powder Lot #: COA14768
Sodium Sulfate,Anhydrous,Granular (Lot #: COA14988
Florisil Disposable Column Lot #: COA15102
94:6 Hexane:Ether Lot #: RGT15669
50:50 Hexane:Ether Lot #: RGT15509

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11020447-01	RS01			8081	30.82 g	.2 mL			10 mL	Transparent
2	L11020447-02	SAMP			8081	30.35 g	.2 mL			10 mL	Transparent
3	L11020447-03	MS01	L11020447-01		8081	30.06 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
4	L11020447-04	SD01	L11020447-01		8081	30.46 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
5	L11020447-06	SAMP			8081	30.02 g	.2 mL			10 mL	Transparent
6	L11020447-07	SAMP			8081	30.5 g	.2 mL			10 mL	Transparent
7	WG356900-01	REF	L11020447-01		8081	30.82 g	.2 mL			10 mL	Transparent
8	WG356900-02	BLANK			8081	30 g	.2 mL			10 mL	Transparent
9	WG356900-03	LCS			8081	30 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
10	WG356900-04	LCS_TOX			8081	30 g	.2 mL	.1 mL	STD43919	10 mL	Transparent
11	WG356900-05	MS	L11020447-01		8081	30.06 g	.2 mL	.25 mL	STD42746	10 mL	Transparent
12	WG356900-06	MSD	L11020447-01		8081	30.46 g	.2 mL	.25 mL	STD42746	10 mL	Transparent

Clean-ups	
Florisil	3620B

Analyst: Cheryl A. Flowers

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 1923887
Report generated: 02/18/2011 16:20

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021811
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926 Calibration STD:

Comments: All samples from file 15G25068 to the end need rerun. The syringe bent and didn't inject.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G25040.F	WG357038-01 ENDRIN/DDT	1	1	STD39983	02/18/11 14:48
2	15G25040.R	WG357038-01 ENDRIN/DDT	1	1	STD39983	02/18/11 15:16
3	15G25041.F	PEST CCV 20 PPB	1	1	STD43387	02/18/11 15:16
4	15G25041.R	PEST CCV 20 PPB	1	1	STD43387	02/18/11 15:45
5	15G25042.F	WG357035-01 TOX ICAL 2000 PPB	1	1	STD43915	02/18/11 17:39
6	15G25042.R	WG357035-01 TOX ICAL 2000 PPB	1	1	STD43915	02/18/11 18:07
7	15G25043.F	WG357035-02 TOX ICAL 1000 PPB	1	1	STD43915	02/18/11 18:07
8	15G25043.R	WG357035-02 TOX ICAL 1000 PPB	1	1	STD43915	02/18/11 18:36
9	15G25044.F	WG357035-03 TOX ICAL 500 PPB	1	1	STD43915	02/18/11 18:36
10	15G25044.R	WG357035-03 TOX ICAL 500 PPB	1	1	STD43915	02/18/11 19:04
11	15G25045.F	WG357035-04 TOX ICAL 200 PPB	1	1	STD43915	02/18/11 19:04
12	15G25045.R	WG357035-04 TOX ICAL 200 PPB	1	1	STD43915	02/18/11 19:33
13	15G25046.F	WG357035-05 TOX ICAL 100 PPB	1	1	STD43915	02/18/11 19:33
14	15G25046.R	WG357035-05 TOX ICAL 100 PPB	1	1	STD43915	02/18/11 20:01
15	15G25047.F	WG357035-05 TOX ALT 500 PPB	1	1	STD43915	02/18/11 20:01
16	15G25047.R	WG357035-05 TOX ALT 500 PPB	1	1	STD43915	02/18/11 20:29
17	15G25048.F	WG357037-01 PEST ICAL 200 PPB	1	1	STD43387	02/18/11 20:29
18	15G25048.R	WG357037-01 PEST ICAL 200 PPB	1	1	STD43387	02/18/11 20:58
19	15G25049.F	WG357037-02 PEST ICAL 100 PPB	1	1	STD43387	02/18/11 20:58
20	15G25049.R	WG357037-02 PEST ICAL 100 PPB	1	1	STD43387	02/18/11 21:26
21	15G25050.F	WG357037-03 PEST ICAL 20 PPB	1	1	STD43387	02/18/11 21:26
22	15G25050.R	WG357037-03 PEST ICAL 20 PPB	1	1	STD43387	02/18/11 21:54
23	15G25051.F	WG357037-04 PEST ICAL 10 PPB	1	1	STD43387	02/18/11 21:54
24	15G25051.R	WG357037-04 PEST ICAL 10 PPB	1	1	STD43387	02/18/11 22:23
25	15G25052.F	WG357037-05 PEST ICAL 4 PPB	1	1	STD43387	02/18/11 22:23
26	15G25052.R	WG357037-05 PEST ICAL 4 PPB	1	1	STD43387	02/18/11 22:51
27	15G25053.F	WG357037-06 PEST ICAL 1 PPB	1	1	STD43387	02/18/11 22:51
28	15G25053.R	WG357037-06 PEST ICAL 1 PPB	1	1	STD43387	02/18/11 23:19
29	15G25054.F	WG357037-07 PEST ALT 20 PPB	1	1	STD43387	02/18/11 23:19
30	15G25054.R	WG357037-07 PEST ALT 20 PPB	1	1	STD43387	02/18/11 23:48
31	15G25055.F	L11020282-01 10x	1	10		02/18/11 23:48
32	15G25055.R	L11020282-01 10x	1	10		02/19/11 00:16
33	15G25056.F	L11020281-06 10x	7	10	SOIL	02/19/11 00:16
34	15G25056.R	L11020281-06 10x	7	10	SOIL	02/19/11 00:44

Page: 1 Approved: 21-FEB-11

Cassie L. Augenstein

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021811
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G25057.F	L11020281-14 100x	7	100	SOIL	02/19/11 00:44
36	15G25057.R	L11020281-14 100x	7	100	SOIL	02/19/11 01:13
37	15G25058.F	L11020281-21 100x	7	100	SOIL	02/19/11 01:13
38	15G25058.R	L11020281-21 100x	7	100	SOIL	02/19/11 01:41
39	15G25059.F	HEXANE	1	1		02/19/11 01:41
40	15G25059.R	HEXANE	1	1		02/19/11 02:09
41	15G25060.F	WG356905-01 BLANK	1	1		02/19/11 02:09
42	15G25060.R	WG356905-01 BLANK	1	1		02/19/11 02:38
43	15G25061.F	WG356905-02 LCS	1	1		02/19/11 02:38
44	15G25061.R	WG356905-02 LCS	1	1		02/19/11 03:06
45	15G25062.F	WG356905-03 LCS DUP	1	1		02/19/11 03:06
46	15G25062.R	WG356905-03 LCS DUP	1	1		02/19/11 03:35
47	15G25063.F	WG356905-04 TOX LCS	1	1		02/19/11 03:35
48	15G25063.R	WG356905-04 TOX LCS	1	1		02/19/11 04:03
49	15G25064.F	WG356906-01 FBLANK	17	1		02/19/11 04:03
50	15G25064.R	WG356906-01 FBLANK	17	1		02/19/11 04:31
51	15G25065.F	WG357038-02 ENDRIN/DDT	1	1	STD39983	02/19/11 04:31
52	15G25065.R	WG357038-02 ENDRIN/DDT	1	1	STD39983	02/19/11 05:00
53	15G25066.F	WG357038-03 PEST CCV 20 PPB	1	1	STD43387	02/19/11 05:00
54	15G25066.R	WG357038-03 PEST CCV 20 PPB	1	1	STD43387	02/19/11 05:28
55	15G25067.F	WG357036-01 TOX CCV 500 PPB	1	1	STD43915	02/19/11 05:28
56	15G25067.R	WG357036-01 TOX CCV 500 PPB	1	1	STD43915	02/19/11 05:56
57	15G25068.F	L11020354-01	17	1		02/19/11 05:56
58	15G25068.R	L11020354-01	17	1		02/19/11 06:24
59	15G25069.F	L11020354-02	17	1		02/19/11 06:24
60	15G25069.R	L11020354-02	17	1		02/19/11 06:53
61	15G25070.F	L11020378-01	17	1		02/19/11 06:53
62	15G25070.R	L11020378-01	17	1		02/19/11 07:21
63	15G25071.F	L11020434-01	1	1		02/19/11 07:21
64	15G25071.R	L11020434-01	1	1		02/19/11 07:49
65	15G25072.F	L11020447-05	1	1		02/19/11 07:49
66	15G25072.R	L11020447-05	1	1		02/19/11 08:18
67	15G25073.F	WG356521-02 BLANK	7	1	SOIL	02/19/11 08:18
68	15G25073.R	WG356521-02 BLANK	7	1	SOIL	02/19/11 08:46
69	15G25074.F	WG356521-03 LCS	7	1	SOIL	02/19/11 08:46
70	15G25074.R	WG356521-03 LCS	7	1	SOIL	02/19/11 09:14
71	15G25075.F	WG356521-04 TOX LCS	7	1	SOIL	02/19/11 09:14

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Cassie D. Augenstein

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021811
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
72	15G25075.R	WG356521-04 TOX LCS	7	1	SOIL	02/19/11 09:42

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
	PEST CCV 20 PPB: Standard failed high. Needs recalibrated.			

 Approved: 21-FEB-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021911
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926 Calibration STD:

Comments: Samples from file 15G25107 to the end need rerun due to CCV failures.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G25079.F	WG357044-01 ENDRIN/DDT	1	1	STD39983	02/19/11 11:32
2	15G25079.R	WG357044-01 ENDRIN/DDT	1	1	STD39983	02/19/11 12:00
3	15G25080.F	WG357044-02 PEST CCV 20 PPB	1	1	STD43387	02/19/11 12:00
4	15G25080.R	WG357044-02 PEST CCV 20 PPB	1	1	STD43387	02/19/11 12:28
5	15G25081.F	WG357045-01 TOX CCV 500 PPB	1	1	STD43915	02/19/11 13:17
6	15G25081.R	WG357045-01 TOX CCV 500 PPB	1	1	STD43915	02/19/11 13:45
7	15G25082.F	L11020354-01	17	1		02/19/11 13:45
8	15G25082.R	L11020354-01	17	1		02/19/11 14:13
9	15G25083.F	L11020354-02	17	1		02/19/11 14:13
10	15G25083.R	L11020354-02	17	1		02/19/11 14:41
11	15G25084.F	L11020378-01	17	1		02/19/11 14:41
12	15G25084.R	L11020378-01	17	1		02/19/11 15:10
13	15G25085.F	L11020434-01	1	1		02/19/11 15:10
14	15G25085.R	L11020434-01	1	1		02/19/11 15:38
15	15G25086.F	L11020447-05	1	1		02/19/11 15:38
16	15G25086.R	L11020447-05	1	1		02/19/11 16:07
17	15G25087.F	WG356521-02 BLANK	7	1	SOIL	02/19/11 16:07
18	15G25087.R	WG356521-02 BLANK	7	1	SOIL	02/19/11 16:35
19	15G25088.F	WG356521-03 LCS	7	1	SOIL	02/19/11 16:35
20	15G25088.R	WG356521-03 LCS	7	1	SOIL	02/19/11 17:03
21	15G25089.F	WG356521-04 TOX LCS	7	1	SOIL	02/19/11 17:03
22	15G25089.R	WG356521-04 TOX LCS	7	1	SOIL	02/19/11 17:32
23	15G25090.F	L11020281-24	7	1	SOIL	02/19/11 17:32
24	15G25090.R	L11020281-24	7	1	SOIL	02/19/11 18:00
25	15G25091.F	L11020281-26 5x	7	5	SOIL	02/19/11 18:00
26	15G25091.R	L11020281-26 5x	7	5	SOIL	02/19/11 18:28
27	15G25092.F	WG357044-03 PEST CCV 10 PPB	1	1	STD43387	02/19/11 18:28
28	15G25092.R	WG357044-03 PEST CCV 10 PPB	1	1	STD43387	02/19/11 18:56
29	15G25093.F	WG357045-02 TOX CCV 200 PPB	1	1	STD43915	02/19/11 18:56
30	15G25093.R	WG357045-02 TOX CCV 200 PPB	1	1	STD43915	02/19/11 19:25
31	15G25094.F	L11020281-28	7	1	SOIL	02/19/11 19:25
32	15G25094.R	L11020281-28	7	1	SOIL	02/19/11 19:53
33	15G25095.F	L11020281-30 REF	7	1	SOIL	02/19/11 19:53
34	15G25095.R	L11020281-30 REF	7	1	SOIL	02/19/11 20:21

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021911
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G25096.F	L11020281-31 MS	7	1	SOIL	02/19/11 20:21
36	15G25096.R	L11020281-31 MS	7	1	SOIL	02/19/11 20:50
37	15G25097.F	L11020281-32 MSD	7	1	SOIL	02/19/11 20:50
38	15G25097.R	L11020281-32 MSD	7	1	SOIL	02/19/11 21:18
39	15G25098.F	L11020281-34	7	1	SOIL	02/19/11 21:18
40	15G25098.R	L11020281-34	7	1	SOIL	02/19/11 21:46
41	15G25099.F	L11020281-36	7	1	SOIL	02/19/11 21:46
42	15G25099.R	L11020281-36	7	1	SOIL	02/19/11 22:15
43	15G25100.F	L11020281-38	7	1	SOIL	02/19/11 22:15
44	15G25100.R	L11020281-38	7	1	SOIL	02/19/11 22:43
45	15G25101.F	L11020281-40	7	1	SOIL	02/19/11 22:43
46	15G25101.R	L11020281-40	7	1	SOIL	02/19/11 23:11
47	15G25102.F	L11020281-42	7	1	SOIL	02/19/11 23:11
48	15G25102.R	L11020281-42	7	1	SOIL	02/19/11 23:40
49	15G25103.F	L11020281-44	7	1	SOIL	02/19/11 23:40
50	15G25103.R	L11020281-44	7	1	SOIL	02/20/11 00:08
51	15G25104.F	WG357044-04 ENDRIN/DDT	1	1	STD39983	02/20/11 00:08
52	15G25104.R	WG357044-04 ENDRIN/DDT	1	1	STD39983	02/20/11 00:36
53	15G25105.F	WG357044-05 PEST CCV 20 PPB	1	1	STD43387	02/20/11 00:36
54	15G25105.R	WG357044-05 PEST CCV 20 PPB	1	1	STD43387	02/20/11 01:04
55	15G25106.F	WG357045-03 TOX CCV 500 PPB	1	1	STD43915	02/20/11 01:04
56	15G25106.R	WG357045-03 TOX CCV 500 PPB	1	1	STD43915	02/20/11 01:32
57	15G25107.F	L11020281-23 20x	7	20	SOIL	02/20/11 01:32
58	15G25107.R	L11020281-23 20x	7	20	SOIL	02/20/11 02:01
59	15G25108.F	L11020281-25 100x	7	100	SOIL	02/20/11 02:01
60	15G25108.R	L11020281-25 100x	7	100	SOIL	02/20/11 02:29
61	15G25109.F	L11020281-27 5x	7	5	SOIL	02/20/11 02:29
62	15G25109.R	L11020281-27 5x	7	5	SOIL	02/20/11 02:57
63	15G25110.F	L11020281-29 10x	7	10	SOIL	02/20/11 02:57
64	15G25110.R	L11020281-29 10x	7	10	SOIL	02/20/11 03:26
65	15G25111.F	L11020281-33 100x	7	100	SOIL	02/20/11 03:26
66	15G25111.R	L11020281-33 100x	7	100	SOIL	02/20/11 03:54
67	15G25112.F	L11020281-35 20x	7	20	SOIL	02/20/11 03:54
68	15G25112.R	L11020281-35 20x	7	20	SOIL	02/20/11 04:22
69	15G25113.F	L11020281-37 20x	7	20	SOIL	02/20/11 04:22
70	15G25113.R	L11020281-37 20x	7	20	SOIL	02/20/11 04:50
71	15G25114.F	L11020281-39 20x	7	20	SOIL	02/20/11 04:50

 Approved: 21-FEB-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021911
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
72	15G25114.R	L11020281-39 20x	7	20	SOIL	02/20/11 05:19
73	15G25115.F	L11020281-41 20x	7	20	SOIL	02/20/11 05:19
74	15G25115.R	L11020281-41 20x	7	20	SOIL	02/20/11 05:47
75	15G25116.F	L11020281-43 20x	7	20	SOIL	02/20/11 05:47
76	15G25116.R	L11020281-43 20x	7	20	SOIL	02/20/11 06:15
77	15G25117.F	HEXANE	1	1		02/20/11 06:15
78	15G25117.R	HEXANE	1	1		02/20/11 06:43
79	15G25118.F	WG357044-06 PEST CCV 10 PPB	1	1	STD43387	02/20/11 06:43
80	15G25118.R	WG357044-06 PEST CCV 10 PPB	1	1	STD43387	02/20/11 07:12
81	15G25119.F	WG357045-04 TOX CCV 200 PPB	1	1	STD43915	02/20/11 07:12
82	15G25119.R	WG357045-04 TOX CCV 200 PPB	1	1	STD43915	02/20/11 07:40
83	15G25120.F	WG356560-02 BLANK	7	1	SOIL	02/20/11 07:40
84	15G25120.R	WG356560-02 BLANK	7	1	SOIL	02/20/11 08:08
85	15G25121.F	WG356560-03 LCS	7	1	SOIL	02/20/11 08:08
86	15G25121.R	WG356560-03 LCS	7	1	SOIL	02/20/11 08:36
87	15G25122.F	WG356560-04 TOX LCS	7	1	SOIL	02/20/11 08:36
88	15G25122.R	WG356560-04 TOX LCS	7	1	SOIL	02/20/11 09:05
89	15G25123.F	L11020281-48	7	1	SOIL	02/20/11 09:05
90	15G25123.R	L11020281-48	7	1	SOIL	02/20/11 09:33
91	15G25124.F	L11020281-50	7	1	SOIL	02/20/11 09:33
92	15G25124.R	L11020281-50	7	1	SOIL	02/20/11 10:01
93	15G25125.F	L11020281-52	7	1	SOIL	02/20/11 10:01
94	15G25125.R	L11020281-52	7	1	SOIL	02/20/11 10:29
95	15G25126.F	L11020281-56	7	1	SOIL	02/20/11 10:29
96	15G25126.R	L11020281-56	7	1	SOIL	02/20/11 10:58
97	15G25127.F	L11020281-58	7	1	SOIL	02/20/11 10:58
98	15G25127.R	L11020281-58	7	1	SOIL	02/20/11 11:26
99	15G25128.F	L11020281-63	7	1	SOIL	02/20/11 11:26
100	15G25128.R	L11020281-63	7	1	SOIL	02/20/11 11:54
101	15G25129.F	L11020281-66	7	1	SOIL	02/20/11 11:54
102	15G25129.R	L11020281-66	7	1	SOIL	02/20/11 12:23
103	15G25130.F	WG357044-07 ENDRIN/DDT	1	1	STD39983	02/20/11 12:23
104	15G25130.R	WG357044-07 ENDRIN/DDT	1	1	STD39983	02/20/11 12:51
105	15G25131.F	WG357044-08 PEST CCV 20 PPB	1	1	STD43387	02/20/11 12:51
106	15G25131.R	WG357044-08 PEST CCV 20 PPB	1	1	STD43387	02/20/11 13:19
107	15G25132.F	WG357045-05 TOX CCV 500 PPB	1	1	STD43915	02/20/11 13:19
108	15G25132.R	WG357045-05 TOX CCV 500 PPB	1	1	STD43915	02/20/11 13:48

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 021911
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4				
	WG357044-02: DDT, heptachlor epoxide >15%D			
11				
	L11020378-01: T-M-X surrogate failed high due to SMI.			
23				
	L11020281-24: DCB surrogate failed low.			
25				
	L11020281-26 5x: T-M-X surrogate failed low.			
27				
	WG357044-03: Dieldrin, methoxyclor >15%D, reporting from rear column.			
28				
	WG357044-03 PEST CCV 10 PPB: DDT, Heptachlor epoxide >15% D (CF column)			
31				
	L11020281-28: Both surrogates failed low. Needs re-extracted.			
33				
	L11020281-30 REF: Both surrogates failed low. Needs re-extracted.			
37				
	L11020281-32 MSD: Both surrogates failed low. Needs re-extracted.			
39				
	L11020281-34: Both surrogates failed low. Needs re-extracted.			
43				
	L11020281-38: Both surrogates failed low. Needs re-extracted.			
45				
	L11020281-40: Both surrogates failed low. Needs re-extracted.			
49				
	L11020281-44: Both surrogates failed low. Needs re-extracted.			
53				
	WG357044-05: Dieldin, methoxyclor >15%D, reporting from rear column.			
54				
	WG357044-05 rear column: heptaclor epoxide, Endosulfan I, DDT, Endrin aldehyde >15%D.			
59	X		Check Standard Failure	4,4'-DDT
	L11020281-25 100x			
80				
	WG357044-06 PEST CCV 10 PPB: 3 analytes failed low on the rear (confirmation) column. These analytes are needed for confirmations.			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 022211
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926 Calibration STD:

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	15G25175.F	WG357262-01 ENDRIN/DDT	1	1	STD39983	02/22/11 12:56
2	15G25175.R	WG357262-01 ENDRIN/DDT	1	1	STD39983	02/22/11 13:24
3	15G25176.F	WG357262-02 PEST CCV 20 PPB	1	1	STD43387	02/22/11 13:24
4	15G25176.R	WG357262-02 PEST CCV 20 PPB	1	1	STD43387	02/22/11 13:53
5	15G25177.F	WG357263-01 TOX CCV 500 PPB	1	1	STD43915	02/22/11 14:54
6	15G25177.R	WG357263-01 TOX CCV 500 PPB	1	1	STD43915	02/22/11 15:22
7	15G25178.F	WG356900-02 BLANK	7	1	SOIL	02/22/11 15:22
8	15G25178.R	WG356900-02 BLANK	7	1	SOIL	02/22/11 15:51
9	15G25179.F	WG356900-03 LCS	7	1	SOIL	02/22/11 15:51
10	15G25179.R	WG356900-03 LCS	7	1	SOIL	02/22/11 16:19
11	15G25180.F	WG356900-04 TOX LCS	7	1	SOIL	02/22/11 16:19
12	15G25180.R	WG356900-04 TOX LCS	7	1	SOIL	02/22/11 16:47
13	15G25181.F	L11020447-01 REF	7	1	SOIL	02/22/11 16:47
14	15G25181.R	L11020447-01 REF	7	1	SOIL	02/22/11 17:16
15	15G25182.F	L11020447-03 MS	7	1	SOIL	02/22/11 17:16
16	15G25182.R	L11020447-03 MS	7	1	SOIL	02/22/11 17:44
17	15G25183.F	L11020447-04 MSD	7	1	SOIL	02/22/11 17:44
18	15G25183.R	L11020447-04 MSD	7	1	SOIL	02/22/11 18:12
19	15G25184.F	L11020447-02	7	1	SOIL	02/22/11 18:12
20	15G25184.R	L11020447-02	7	1	SOIL	02/22/11 18:41
21	15G25185.F	L11020447-06	7	1	SOIL	02/22/11 18:41
22	15G25185.R	L11020447-06	7	1	SOIL	02/22/11 19:09
23	15G25186.F	L11020447-07	7	1	SOIL	02/22/11 19:09
24	15G25186.R	L11020447-07	7	1	SOIL	02/22/11 19:37
25	15G25187.F	WG357262-03 PEST CCV 10 PPB	1	1	STD43387	02/22/11 19:37
26	15G25187.R	WG357262-03 PEST CCV 10 PPB	1	1	STD43387	02/22/11 20:06
27	15G25188.F	WG357263-02 TOX CCV 200 PPB	1	1	STD43915	02/22/11 20:06
28	15G25188.R	WG357263-02 TOX CCV 200 PPB	1	1	STD43915	02/22/11 20:34
29	15G25189.F	L11020281-54 20x	7	20	SOIL	02/22/11 20:34
30	15G25189.R	L11020281-54 20x	7	20	SOIL	02/22/11 21:02
31	15G25190.F	L11020281-57	7	1	SOIL	02/22/11 21:02
32	15G25190.R	L11020281-57	7	1	SOIL	02/22/11 21:31
33	15G25191.F	L11020281-59 20x	7	20	SOIL	02/22/11 21:31
34	15G25191.R	L11020281-59 20x	7	20	SOIL	02/22/11 21:59

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 022211
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	15G25192.F	L11020281-64 400x	7	400	SOIL	02/22/11 21:59
36	15G25192.R	L11020281-64 400x	7	400	SOIL	02/22/11 22:27
37	15G25193.F	L11020281-65 5x	7	5	SOIL	02/22/11 22:27
38	15G25193.R	L11020281-65 5x	7	5	SOIL	02/22/11 22:55
39	15G25194.F	L11020281-67 100x	7	100	SOIL	02/22/11 22:55
40	15G25194.R	L11020281-67 100x	7	100	SOIL	02/22/11 23:24
41	15G25195.F	L11020281-69 50x	7	50	SOIL	02/22/11 23:24
42	15G25195.R	L11020281-69 50x	7	50	SOIL	02/22/11 23:52
43	15G25196.F	L11020281-69 5x	7	5	SOIL	02/22/11 23:52
44	15G25196.R	L11020281-69 5x	7	5	SOIL	02/23/11 00:20
45	15G25197.F	WG356561-02 BLANK	7	1	SOIL	02/23/11 00:20
46	15G25197.R	WG356561-02 BLANK	7	1	SOIL	02/23/11 00:49
47	15G25198.F	WG356561-03 LCS	7	1	SOIL	02/23/11 00:49
48	15G25198.R	WG356561-03 LCS	7	1	SOIL	02/23/11 01:17
49	15G25199.F	WG357262-04 PEST CCV 20 PPB	1	1	STD43387	02/23/11 01:17
50	15G25199.R	WG357262-04 PEST CCV 20 PPB	1	1	STD43387	02/23/11 01:46
51	15G25200.F	WG357263-03 TOX CCV 500 PPB	1	1	STD43915	02/23/11 01:46
52	15G25200.R	WG357263-03 TOX CCV 500 PPB	1	1	STD43915	02/23/11 02:14
53	15G25201.F	WG356561-04 TOX LCS	7	1	SOIL	02/23/11 02:14
54	15G25201.R	WG356561-04 TOX LCS	7	1	SOIL	02/23/11 02:42
55	15G25202.F	L11020281-60 REF	7	1	SOIL	02/23/11 02:42
56	15G25202.R	L11020281-60 REF	7	1	SOIL	02/23/11 03:10
57	15G25203.F	L11020281-61 MS	7	1	SOIL	02/23/11 03:10
58	15G25203.R	L11020281-61 MS	7	1	SOIL	02/23/11 03:39
59	15G25204.F	L11020281-62 MSD	7	1	SOIL	02/23/11 03:39
60	15G25204.R	L11020281-62 MSD	7	1	SOIL	02/23/11 04:07
61	15G25205.F	L11020281-71	7	1	SOIL	02/23/11 04:07
62	15G25205.R	L11020281-71	7	1	SOIL	02/23/11 04:35
63	15G25206.F	L11020282-02	7	1	SOIL	02/23/11 04:35
64	15G25206.R	L11020282-02	7	1	SOIL	02/23/11 05:04
65	15G25207.F	L11020281-37 2000x	7	2000	SOIL	02/23/11 05:04
66	15G25207.R	L11020281-37 2000x	7	2000	SOIL	02/23/11 05:32
67	15G25208.F	L11020281-70 100x	7	100	SOIL	02/23/11 05:32
68	15G25208.R	L11020281-70 100x	7	100	SOIL	02/23/11 06:00
69	15G25209.F	HEXANE	1	1		02/23/11 06:00
70	15G25209.R	HEXANE	1	1		02/23/11 06:28
71	15G25210.F	WG357262-06 PEST CCV 10 PPB	1	1	STD43387	02/23/11 06:28

Page: 2 Approved: 23-FEB-11

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 022211
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
72	15G25210.R	WG357262-06 PEST CCV 10 PPB	1	1	STD43387	02/23/11 06:57
73	15G25211.F	WG357263-04 TOX CCV 200 PPB	1	1	STD43915	02/23/11 06:57
74	15G25211.R	WG357263-04 TOX CCV 200 PPB	1	1	STD43915	02/23/11 07:25
75	15G25212.F	WG357150-01 BLANK	17	1		02/23/11 07:25
76	15G25212.R	WG357150-01 BLANK	17	1		02/23/11 07:53
77	15G25213.F	WG357150-02 LCS	17	1		02/23/11 07:53
78	15G25213.R	WG357150-02 LCS	17	1		02/23/11 08:22
79	15G25214.F	WG357150-03 LCS DUP	17	1		02/23/11 08:22
80	15G25214.R	WG357150-03 LCS DUP	17	1		02/23/11 08:50
81	15G25215.F	L11020535-01	17	1		02/23/11 08:50
82	15G25215.R	L11020535-01	17	1		02/23/11 09:18
83	15G25216.F	L11020521-01	17	1		02/23/11 09:18
84	15G25216.R	L11020521-01	17	1		02/23/11 09:47
85	15G25217.F	WG357122-01 FBLANK	17	1		02/23/11 09:47
86	15G25217.R	WG357122-01 FBLANK	17	1		02/23/11 10:15
87	15G25218.F	WG357122-02 FBLANK	17	1		02/23/11 10:15
88	15G25218.R	WG357122-02 FBLANK	17	1		02/23/11 10:43
89	15G25219.F	WG357262-05 ENDRIN/DDT	1	1	STD39983	02/23/11 10:43
90	15G25219.R	WG357262-05 ENDRIN/DDT	1	1	STD39983	02/23/11 11:12
91	15G25220.F	WG357262-07 PEST CCV 20 PPB	1	1	STD43387	02/23/11 11:12
92	15G25220.R	WG357262-07 PEST CCV 20 PPB	1	1	STD43387	02/23/11 11:40
93	15G25221.F	WG357263-05 TOX CCV 500 PPB	1	1	STD43915	02/23/11 11:40
94	15G25221.R	WG357263-05 TOX CCV 500 PPB	1	1	STD43915	02/23/11 12:08

Comments

Seq.	Rerun	Dil.	Reason	Analytes
7				
	WG356900-02 BLANK: T-M-X surrogate failed low.			
9				
	WG356900-03 LCS: T-M-X surrogate failed low.			
11				
	WG356900-04 TOX LCS: T-M-X surrogate failed low.			
13				
	L11020447-01 REF: T-M-X surrogate failed low.			
15				
	L11020447-03 MS: T-M-X surrogate failed low.			
17				

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 022211
Analyst1: ECL Analyst2: NA
Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43387 LCS STD: STD42746
Internal STD: NA Surrogate STD: STD43926

Comments

Seq.	Rerun	Dil.	Reason	Analytes
	L11020447-04 MSD: T-M-X surrogate failed low.			
19				
	L11020447-02: Both surrogates failed low. No re-extract per client.			
21				
	L11020447-06: Both surrogates failed low. No re-extract per client.			
23				
	L11020447-07: Both surrogates failed low. No re-extract per client.			
29	X	20	Check Standard Failure	Dieldrin
	L11020281-54 20x: Not reported.			
31	X	100	Over Calibration Range	4 analytes
	L11020281-57: Not reported.			
41	X	50	Check Standard Failure	Dieldrin
	L11020281-69 50x: Not reported.			
43	X		Check Standard Failure	Dieldrin
	L11020281-69 5x: Not reported.			
45	X		Check Standard Failure	Dieldrin
	WG356561-02 BLANK: Not reported.			
47	X		Check Standard Failure	Dieldrin
	WG356561-03 LCS: Not reported.			
49				
	WG357262-04 PEST CCV 20 PPB: Dieldrin and alpha-chlordane failed low on the front (primary) column. 4 other analytes failed low on the rear (confirmation) column.			
53				
	WG356561-04 TOX LCS: Not reported.			
55				
	L11020281-60 REF: Both surrogates failed low.			
57				
	L11020281-61 MS: Both surrogates failed low.			
59				
	L11020281-62 MSD: Both surrogates failed low.			
63	X	10	Over Calibration Range	4,4'-DDT, 4,4'-DDE
	L11020282-02: Not reported.			
67	X	100	Check Standard Failure	Dieldrin
	L11020281-70 100x: Not reported.			
91				

Page: 4 Approved: 23-FEB-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP15 Dataset: 022211

Analyst1: ECL Analyst2: NA

Method: 8081 SOP: GCS09 Rev: 12

Maintenance Log ID: _____ Syringe Filter Lot#: _____

Column 1 ID: RTX-CLP Column 2 ID: RTX-CLP2

Workgroups: _____

CCV Std: STD43387 LCS STD: STD42746

Internal STD: NA Surrogate STD: STD43926

Comments

Seq.	Rerun	Dil.	Reason	Analytes

WG357262-07 PEST CCV 20 PPB: Dieldrin failed low on the front (primary) column. Heptachlor epoxide failed low on the rear (confirmation) column.

 Approved: 23-FEB-11

Microbac Laboratories Inc.

Data Checklist

Date: 18-FEB-2011
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 39114
Analytical Workgroups: L11020282, L11020281

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	CAA

Primary Reviewer:
19-FEB-2011

Secondary Reviewer:
21-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-21-2011 12:56:04

Microbac Laboratories Inc.

Data Checklist

Date: 19-FEB-2011
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 39130
Analytical Workgroups: L11020354, L11020378, L11020434, L11020447, L11020281

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
21-FEB-2011

Secondary Reviewer:
21-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-21-2011 15:51:46

Microbac Laboratories Inc.

Data Checklist

Date: 22-FEB-2011
Analyst: ECL
Analyst: NA
Method: 8081
Instrument: HP15
Curve Workgroup: NA
Runlog ID: 39170
Analytical Workgroups: L11020447, L11020281, L11020535, L11020521

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
23-FEB-2011

Secondary Reviewer:
23-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-23-2011 14:38:04

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 8081A AAB#: WG357013

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-2-16-11-FB	05	02/16/11					02/18/11	1.9	7		02/19/11	1.3	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1924787
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8081A AAB#: WG357023

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-TPS-2-16-11-COM	01	02/16/11					02/18/11	1.9	14		02/22/11	4.3	40	
SITE #1-2-16-11-DUP	02	02/16/11					02/18/11	1.9	14		02/22/11	4.4	40	
SITE #1-2-16-11-MS	03	02/16/11					02/18/11	1.9	14		02/22/11	4.3	40	
SITE #1-2-16-11-MSD	04	02/16/11					02/18/11	1.9	14		02/22/11	4.3	40	
SITE #1-2-16-11-CLAY-C	06	02/16/11					02/18/11	1.9	14		02/22/11	4.4	40	
SITE #1-2-16-11-CLAY-C-	07	02/16/11					02/18/11	1.9	14		02/22/11	4.4	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1924787
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11020447
Instrument Id: HP15
Workgroup (AAB#): WG357023

Method: 8081
CAL ID: HP15-18-FEB-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L11020447-01	1.00	01	61.4	56.2
L11020447-02	1.00	01	56.9	49.6
L11020447-03	1.00	01	67.2	66.1
L11020447-04	1.00	01	64.0	63.1
L11020447-06	1.00	01	56.5	54.7
L11020447-07	1.00	01	54.9	54.6
WG356900-02	1.00	01	70.2	78.7
WG356900-03	1.00	01	67.3	74.1
WG356900-04	1.00	02	65.9	74.7

Surrogates	Surrogate Limits		
1 - 2,4,5,6-Tetrachloro-m-xylene	70	-	125
2 - Decachlorobiphenyl	55	-	130

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1924796
Report generated: 02/23/2011 16:00

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11020447
Instrument Id: HP15
Workgroup (AAB#): WG357013

Method: 8081
CAL ID: HP15-18-FEB-11
Matrix: Water

Sample Number	Dilution	Tag	1	2
L11020447-05	1.00	01	74.6	61.3
WG356905-01	1.00	01	78.5	71.0
WG356905-02	1.00	01	69.5	60.7
WG356905-03	1.00	01	69.0	56.4
WG356905-04	1.00	03	59.2	32.2

Surrogates	Surrogate Limits		
1 - 2,4,5,6-Tetrachloro-m-xylene	25	-	140
2 - Decachlorobiphenyl	30	-	135

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1924796
Report generated: 02/23/2011 16:00

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Work Group: WG357013
Blank File ID: 15G25060.F
Blank Sample ID: WG356905-01
Prep Date: 02/18/11 09:00
Instrument ID: HP15
Analyzed Date: 02/19/11 02:09
Method: 8081A
Analyst: ECL

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356905-02	15G25061.F	02/19/11 02:38	01
LCS2	WG356905-03	15G25062.F	02/19/11 03:06	01
LCS_TOX	WG356905-04	15G25063.F	02/19/11 03:35	03
SITE #1-2-16-11-FB	L11020447-05	15G25086.F	02/19/11 15:38	01

Report Name: BLANK_SUMMARY
PDF File ID: 1924788
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Work Group: WG357023
Blank File ID: 15G25178.F
Blank Sample ID: WG356900-02
Prep Date: 02/18/11 09:36
Instrument ID: HP15
Analyzed Date: 02/22/11 15:22
Method: 8081A
Analyst: ECL

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356900-03	15G25179.F	02/22/11 15:51	01
LCS_TOX	WG356900-04	15G25180.F	02/22/11 16:19	02
SITE #1-TPS-2-16-11-COMP	L11020447-01	15G25181.F	02/22/11 16:47	01
SITE #1-2-16-11-MS	L11020447-03	15G25182.F	02/22/11 17:16	01
SITE #1-2-16-11-MSD	L11020447-04	15G25183.F	02/22/11 17:44	01
SITE #1-2-16-11-DUP	L11020447-02	15G25184.F	02/22/11 18:12	01
SITE #1-2-16-11-CLAY-C	L11020447-06	15G25185.F	02/22/11 18:41	01
SITE #1-2-16-11-CLAY-C-2	L11020447-07	15G25186.F	02/22/11 19:09	01

Report Name: BLANK_SUMMARY
PDF File ID: 1924788
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/18/11 09:00 Sample ID: WG356905-01
Instrument ID: HP15 Run Date: 02/19/11 02:09 Prep Method: 3510C
File ID: 15G25060.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG357013 Matrix: Water Units: ug/L
Contract #: Cal ID: HP15-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
4,4'-DDD	0.0100	0.0500	0.0100	1	U
4,4'-DDE	0.0100	0.0500	0.0100	1	U
4,4'-DDT	0.0100	0.0500	0.0100	1	U
Aldrin	0.0100	0.0500	0.0100	1	U
alpha Chlordane	0.0100	0.0500	0.0100	1	U
alpha-BHC	0.0100	0.0500	0.0100	1	U
beta-BHC	0.0100	0.0500	0.0100	1	U
delta-BHC	0.0100	0.0500	0.0100	1	U
Dieldrin	0.0100	0.0500	0.0100	1	U
Endosulfan I	0.0100	0.0500	0.0100	1	U
Endosulfan II	0.0100	0.0500	0.0100	1	U
Endosulfan sulfate	0.0100	0.0500	0.0100	1	U
Endrin	0.0100	0.0500	0.0100	1	U
Endrin aldehyde	0.0100	0.0500	0.0100	1	U
Endrin ketone	0.0100	0.0500	0.0100	1	U
gamma Chlordane	0.0100	0.0500	0.0100	1	U
gamma-BHC (Lindane)	0.0100	0.0500	0.0100	1	U
Heptachlor	0.0100	0.0500	0.0100	1	U
Heptachlor epoxide	0.0100	0.0500	0.0100	1	U
Methoxychlor	0.0100	0.0500	0.0100	1	U
Toxaphene	0.300	1.00	0.300	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	78.5	25	-	140	PASS
Decachlorobiphenyl	71.0	30	-	135	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1924789
23-FEB-2011 16:00

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11020447 Prep Date:02/18/11 09:36 Sample ID:WG356900-02
Instrument ID:HP15 Run Date:02/22/11 15:22 Prep Method:3550B
File ID:15G25178.F Analyst:ECL Method:8081A
Workgroup (AAB#):WG357023 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HP15-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
4,4'-DDD	0.330	1.65	0.330	1	U
4,4'-DDE	0.330	1.65	0.330	1	U
4,4'-DDT	0.330	1.65	0.330	1	U
Aldrin	0.330	1.65	0.330	1	U
alpha Chlordane	0.330	1.65	0.330	1	U
alpha-BHC	0.330	1.65	0.330	1	U
beta-BHC	0.330	1.65	0.330	1	U
delta-BHC	0.330	1.65	0.330	1	U
Dieldrin	0.330	1.65	0.330	1	U
Endosulfan I	0.330	1.65	0.330	1	U
Endosulfan II	0.330	1.65	0.330	1	U
Endosulfan sulfate	0.330	1.65	0.330	1	U
Endrin	0.330	1.65	0.330	1	U
Endrin aldehyde	0.330	1.65	0.330	1	U
Endrin ketone	0.330	1.65	0.330	1	U
gamma Chlordane	0.330	1.65	0.330	1	U
gamma-BHC (Lindane)	0.330	1.65	0.330	1	U
Heptachlor	0.330	1.65	0.330	1	U
Heptachlor epoxide	0.330	1.65	0.330	1	U
Methoxychlor	0.330	1.65	0.330	1	U
Toxaphene	16.7	33.0	16.7	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	70.2	70	-	125	PASS
Decachlorobiphenyl	78.7	55	-	130	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1924789
23-FEB-2011 16:00

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/19/2011 Sample ID: WG356905-04
Instrument ID: HP15 Run Time: 03:35 Prep Method: 3510C
File ID: 15G25063.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG357013 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD42746 Cal ID: HP15-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Toxaphene	2.00	2.08	104	41 - 126	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	59.2	25 - 140	PASS
Decachlorobiphenyl	32.2	30 - 135	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1924790
Report generated: 02/23/2011 16:00

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG356900-03
Instrument ID: HP15 Run Time: 15:51 Prep Method: 3550B
File ID: 15G25179.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG357023 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD42746 Cal ID: HP15-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
4,4'-DDD	16.7	14.9	89.6	30 - 135	
4,4'-DDE	16.7	15.6	93.3	70 - 125	
4,4'-DDT	16.7	15.7	94.4	45 - 140	
Aldrin	16.7	13.5	81.1	45 - 140	
alpha Chlordane	16.7	14.2	85.2	65 - 120	
alpha-BHC	16.7	14.9	89.4	60 - 125	
beta-BHC	16.7	13.9	83.2	60 - 125	
delta-BHC	16.7	14.8	88.6	55 - 130	
Dieldrin	16.7	15.1	90.3	65 - 125	
Endosulfan I	16.7	11.9	71.4	15 - 135	
Endosulfan II	16.7	12.0	72.0	35 - 140	
Endosulfan sulfate	16.7	15.3	92.0	60 - 135	
Endrin	16.7	15.4	92.2	60 - 135	
Endrin aldehyde	16.7	12.6	75.4	35 - 145	
Endrin ketone	16.7	14.4	86.4	65 - 135	
gamma Chlordane	16.7	14.3	85.9	65 - 125	
gamma-BHC (Lindane)	16.7	14.3	85.9	60 - 125	
Heptachlor	16.7	14.0	84.3	50 - 140	
Heptachlor epoxide	16.7	12.2	72.9	65 - 130	
Methoxychlor	16.7	14.8	88.8	55 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	67.3	70 - 125	FAIL
Decachlorobiphenyl	74.1	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1924790
Report generated: 02/23/2011 16:00

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG356900-04
Instrument ID: HP15 Run Time: 16:19 Prep Method: 3550B
File ID: 15G25180.F Analyst: ECL Method: 8081A
Workgroup (AAB#): WG357023 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD42746 Cal ID: HP15-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Toxaphene	66.7	48.0	71.9	25 - 138	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	65.9	70 - 125	FAIL
Decachlorobiphenyl	74.7	55 - 130	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1924790
Report generated: 02/23/2011 16:00

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number:L11020447 Analyst:ECL Prep Method:3510C
Instrument ID:HP15 Matrix:Water Method:8081A
Workgroup (AAB#):WG357013 Units:ug/L
QC Key:DOD4 Lot #:STD42746

Sample ID:WG356905-02 LCS File ID:15G25061.F Run Date:02/19/2011 02:38
Sample ID:WG356905-03 LCS2 File ID:15G25062.F Run Date:02/19/2011 03:06

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
4,4'-DDD	0.500	0.481	96.2	0.500	0.525	105	8.79	25 - 150	30	
4,4'-DDE	0.500	0.468	93.6	0.500	0.506	101	7.80	35 - 140	30	
4,4'-DDT	0.500	0.517	103	0.500	0.579	116	11.4	45 - 140	30	
Aldrin	0.500	0.405	81.1	0.500	0.445	89.0	9.29	25 - 140	30	
alpha Chlordane	0.500	0.461	92.3	0.500	0.487	97.4	5.40	65 - 125	30	
alpha-BHC	0.500	0.436	87.2	0.500	0.470	94.0	7.53	60 - 130	30	
beta-BHC	0.500	0.476	95.2	0.500	0.506	101	6.19	65 - 125	30	
delta-BHC	0.500	0.498	99.7	0.500	0.531	106	6.39	45 - 135	30	
Dieldrin	0.500	0.527	105	0.500	0.558	112	5.75	60 - 130	30	
Endosulfan I	0.500	0.387	77.4	0.500	0.409	81.7	5.46	50 - 110	30	
Endosulfan II	0.500	0.406	81.2	0.500	0.438	87.5	7.44	30 - 130	30	
Endosulfan sulfate	0.500	0.539	108	0.500	0.570	114	5.52	55 - 135	30	
Endrin	0.500	0.513	103	0.500	0.551	110	7.03	55 - 135	30	
Endrin aldehyde	0.500	0.405	80.9	0.500	0.438	87.7	7.97	55 - 135	30	
Endrin ketone	0.500	0.474	94.9	0.500	0.509	102	7.00	75 - 125	30	
gamma Chlordane	0.500	0.449	89.9	0.500	0.474	94.8	5.37	60 - 125	30	
gamma-BHC (Lindane)	0.500	0.456	91.1	0.500	0.486	97.1	6.35	25 - 135	30	
Heptachlor	0.500	0.416	83.2	0.500	0.439	87.7	5.24	40 - 130	30	
Heptachlor epoxide	0.500	0.414	82.8	0.500	0.437	87.3	5.29	60 - 130	30	
Methoxychlor	0.500	0.505	101	0.500	0.544	109	7.41	55 - 150	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Decachlorobiphenyl	60.7	56.4	30 - 135	PASS
2,4,5,6-Tetrachloro-m-xylene	69.5	69.0	25 - 140	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1924791
Report generated: 02/23/2011 16:00

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L11020447 Cal ID:HP15- 18-FEB-11 Worknum:WG357023
Instrument ID:HP15 Contract #: Prep Method:3550B
Parent ID:L11020447-01 File ID:15G25181.F Dil:1 Method:8081A
Sample ID:L11020447-03 MS File ID:15G25182.F Dil:1 Matrix:Soil
Sample ID:L11020447-04 MSD File ID:15G25183.F Dil:1 Units:ug/kg
Percent Solid:84.0

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
4,4'-DDD	U	19.8	16.1	81.5	19.5	16.4	83.8	1.53	30 - 135	30	
4,4'-DDE	U	19.8	16.5	83.4	19.5	16.9	86.5	2.28	70 - 125	30	
4,4'-DDT	U	19.8	16.7	84.4	19.5	17.1	87.5	2.31	45 - 140	30	
Aldrin	U	19.8	15.2	76.5	19.5	15.5	79.5	2.47	45 - 140	30	
alpha Chlordane	U	19.8	15.4	77.8	19.5	15.7	80.3	1.84	65 - 120	30	
alpha-BHC	U	19.8	16.6	83.8	19.5	16.4	84.1	0.988	60 - 125	30	
beta-BHC	U	19.8	16.0	80.7	19.5	16.0	81.9	0.155	60 - 125	30	
delta-BHC	U	19.8	16.7	84.6	19.5	16.6	84.8	1.01	55 - 130	30	
Dieldrin	U	19.8	16.4	83	19.5	17.1	87.5	3.96	65 - 125	30	
Endosulfan I	U	19.8	13.1	66	19.5	13.1	66.9	0.0018	15 - 135	30	
Endosulfan II	U	19.8	13.7	69.4	19.5	13.7	70.1	0.261	35 - 140	30	
Endosulfan sulfate	U	19.8	17.8	89.8	19.5	17.5	89.8	1.34	60 - 135	30	
Endrin	U	19.8	17.3	87.6	19.5	17.2	87.9	1.03	60 - 135	30	
Endrin aldehyde	U	19.8	13.4	67.6	19.5	13.3	68.2	0.320	35 - 145	30	
Endrin ketone	U	19.8	16.5	83.3	19.5	16.3	83.4	1.13	65 - 135	30	
gamma Chlordane	U	19.8	15.7	79.2	19.5	15.7	80.5	0.331	65 - 125	30	
gamma-BHC (Lindane)	U	19.8	16.7	84.4	19.5	16.5	84.7	0.967	60 - 125	30	
Heptachlor	U	19.8	14.5	73.2	19.5	15.2	77.6	4.57	50 - 140	30	
Heptachlor epoxide	U	19.8	13.3	67.3	19.5	14.2	72.5	6.18	65 - 130	30	
Methoxychlor	U	19.8	16.6	84	19.5	17.0	87.2	2.41	55 - 145	30	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
PDF File ID: 1927318
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 18-FEB-11 20:29

ICAL Workgroup: WG357035 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Toxaphene-1		1234000	8.49		
Toxaphene-2		1799000	11.8		
Toxaphene-3		3339000	3.29		
Toxaphene-4		1483000	7.20		
Toxaphene-5		1393000	5.96		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1924793
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447 **Instrument ID:** HP15

Analytical Method: 8081A **Initial Calibration Date:** 18-FEB-11 23:19

ICAL Workgroup: WG357037 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
4,4'-DDD		116500000	3.48		
4,4'-DDE		142500000	3.58		
4,4'-DDT		117600000	1.77		
Aldrin		154800000	4.40		
Dieldrin		134200000	6.24		
Endosulfan I		137800000	9.12		
Endosulfan II		123200000	7.96		
Endosulfan Sulfate		106600000	7.19		
Endrin		133900000	4.59		
Endrin Aldehyde		98270000	10.6		
Endrin Ketone		117800000	6.33		
Heptachlor		172300000	7.89		
Heptachlor Epoxide		155600000	8.64		
Methoxychlor		57090000	6.10		
alpha-BHC		192600000	7.31		
alpha-Chlordane		151400000	3.81		
beta-BHC		78620000	1.20		
delta-BHC		179500000	8.08		
gamma-BHC		178800000	4.63		
gamma-Chlordane		161700000	1.69		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1924793
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8081A
Instrument ID: HP15
Initial Calibration Date: 18-FEB-11 20:29
Column ID: F

Analyte	WG357035-01			WG357035-02			WG357035-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	2000	2649535620	1325000	1000	1262225300	1262000	500	644588697	1289000
Toxaphene-2	2000	3808203820	1904000	1000	1890827410	1891000	500	966427204	1933000
Toxaphene-3	2000	6825382010	3413000	1000	3448119230	3448000	500	1672072080	3344000
Toxaphene-4	2000	3211627030	1606000	1000	1550556650	1551000	500	768921419	1538000
Toxaphene-5	2000	3019075480	1510000	1000	1458088470	1458000	500	712470994	1425000

INT_CAL - Modified 03/06/2008
PDF File ID: 1924793
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8081A

Instrument ID: HP15
Initial Calibration Date: 18-FEB-11 20:29
Column ID: F

Analyte	WG357035-04			WG357035-05		
	CONC	RESP	RF	CONC	RESP	RF
Toxaphene-1	200	247380784	1237000	100	126137608	1261000
				500	514561426	1029000
Toxaphene-2	200	368100093	1841000	500	684706629	1369000
				100	185643158	1856000
Toxaphene-3	200	661724856	3309000	500	1568815230	3138000
				100	337982007	3380000
Toxaphene-4	200	289048981	1445000	500	651827342	1304000
				100	145563416	1456000
Toxaphene-5	200	263306367	1317000	100	131438995	1314000
				500	666343361	1333000

INT_CAL - Modified 03/06/2008
PDF File ID: 1924793
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8081A

Instrument ID: HP15
Initial Calibration Date: 18-FEB-11 23:19
Column ID: F

Analyte	WG357037-01			WG357037-02			WG357037-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	200	22488372600	112400000	100	11813743200	118100000	20.0	2425968600	121300000
4,4'-DDE	200	28109776900	140500000	100	14678702000	146800000	20.0	2956932360	147800000
4,4'-DDT	200	22980065600	114900000	100	11773325600	117700000	20.0	2359022570	118000000
Aldrin	200	28746493100	143700000	100	15147226900	151500000	20.0	3208900870	160400000
Dieldrin	200	23760028100	118800000	100	13517154000	135200000	20.0	2814178860	140700000
Endosulfan I	200	23295424500	116500000	100	12956385800	129600000	20.0	2814714510	140700000
Endosulfan II	200	21397200800	107000000	100	11649856500	116500000	20.0	2483154370	124200000
Endosulfan Sulfate	200	19354805600	96770000	100	10032727000	100300000	20.0	2112560960	105600000
Endrin	200	24619077400	123100000	100	13034927300	130300000	20.0	2770080590	138500000
Endrin Aldehyde	200	16964281300	84820000	100	8884290090	88840000	20.0	1934398140	96720000
Endrin Ketone	200	21452243200	107300000	100	11157730300	111600000	20.0	2347821240	117400000
Heptachlor	200	30095481900	150500000	100	16095643300	161000000	20.0	3536396140	176800000
Heptachlor Epoxide	200	26954103600	134800000	100	14426322700	144300000	20.0	3171221850	158600000
Methoxychlor	200	10297639100	51490000	100	5433906280	54340000	20.0	1151300260	57570000
alpha-BHC	200	41293366400	206500000	100	20560058800	205600000	20.0	3969372330	198500000
alpha-Chlordane	200	28277541100	141400000	100	15027136900	150300000	20.0	3044984670	152200000
beta-BHC	200	15528442400	77640000	100	7744879830	77450000	20.0	1568081790	78400000
delta-BHC	200	38127712600	190600000	100	19263757500	192600000	20.0	3744816710	187200000
gamma-BHC	200	37067965000	185300000	100	18565379200	185700000	20.0	3646032760	182300000
gamma-Chlordane	200	31405998900	157000000	100	16066389500	160700000	20.0	3246902560	162300000

INT_CAL - Modified 03/06/2008
PDF File ID: 1924793
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8081A

Instrument ID: HP15
Initial Calibration Date: 18-FEB-11 23:19
Column ID: F

Analyte	WG357037-04			WG357037-05			WG357037-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
4,4'-DDD	10.0	1199986710	120000000	4.00	464767266	116200000	1.00	111224952	111200000
4,4'-DDE	10.0	1453440680	145300000	4.00	561358026	140300000	1.00	134356628	134400000
4,4'-DDT	10.0	1204521340	120500000	4.00	476218048	119100000	1.00	115619876	115600000
Aldrin	10.0	1629475630	162900000	4.00	622303628	155600000	1.00	154741189	154700000
Dieldrin	10.0	1312679490	131300000	4.00	558661321	139700000	1.00	139807884	139800000
Endosulfan I	10.0	1433421930	143300000	4.00	583127638	145800000	1.00	150605772	150600000
Endosulfan II	10.0	1273882330	127400000	4.00	530664912	132700000	1.00	131234624	131200000
Endosulfan Sulfate	10.0	1077068280	107700000	4.00	443496255	110900000	1.00	118327721	118300000
Endrin	10.0	1390876410	139100000	4.00	548359194	137100000	1.00	135154249	135200000
Endrin Aldehyde	10.0	1011076380	101100000	4.00	419910178	105000000	1.00	113137232	113100000
Endrin Ketone	10.0	1200614270	120100000	4.00	489287724	122300000	1.00	127902210	127900000
Heptachlor	10.0	1798485500	179800000	4.00	717785708	179400000	1.00	186123123	186100000
Heptachlor Epoxide	10.0	1636379760	163600000	4.00	646164126	161500000	1.00	170856368	170900000
Methoxychlor	10.0	594938183	59490000	4.00	241728480	60430000	1.00	59214694.0	59210000
alpha-BHC	10.0	1928568370	192900000	4.00	724289288	181100000	1.00	171078073	171100000
alpha-Chlordane	10.0	1517693460	151800000	4.00	614912751	153700000	1.00	159044484	159000000
beta-BHC	10.0	791026419	79100000	4.00	318880724	79720000	1.00	79420315.0	79420000
delta-BHC	10.0	1823535850	182400000	4.00	673948585	168500000	1.00	155718921	155700000
gamma-BHC	10.0	1815436890	181500000	4.00	693647566	173400000	1.00	164496532	164500000
gamma-Chlordane	10.0	1627219760	162700000	4.00	647999104	162000000	1.00	165313433	165300000

INT_CAL - Modified 03/06/2008
PDF File ID: 1924793
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357037-07
Instrument ID: HP15 Run Time: 23:19 Method: 8081A
File ID: 15G25054.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG357037 Cal ID: HP15 - 18-FEB-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
4,4'-DDD		20.0	19.9	ug/L	116000000	0.700	20	
4,4'-DDE		20.0	19.9	ug/L	142000000	0.400	20	
4,4'-DDT		20.0	19.1	ug/L	112000000	4.70	20	
Aldrin		20.0	19.6	ug/L	152000000	1.80	20	
alpha-Chlordane		20.0	19.6	ug/L	148000000	2.20	20	
alpha-BHC		20.0	19.8	ug/L	191000000	0.900	20	
beta-BHC		20.0	19.5	ug/L	76500000	2.70	20	
delta-BHC		20.0	20.0	ug/L	180000000	0.100	20	
Dieldrin		20.0	20.5	ug/L	138000000	2.70	20	
Endosulfan I		20.0	20.0	ug/L	138000000	0.200	20	
Endosulfan II		20.0	19.3	ug/L	119000000	3.70	20	
Endosulfan Sulfate		20.0	19.2	ug/L	102000000	3.90	20	
Endrin		20.0	19.7	ug/L	132000000	1.70	20	
Endrin Aldehyde		20.0	18.7	ug/L	91900000	6.50	20	
Endrin Ketone		20.0	20.1	ug/L	118000000	0.600	20	
gamma-Chlordane		20.0	19.4	ug/L	156000000	3.20	20	
gamma-BHC		20.0	19.7	ug/L	176000000	1.40	20	
Heptachlor		20.0	19.8	ug/L	171000000	0.800	20	
Heptachlor Epoxide		20.0	19.4	ug/L	151000000	2.80	20	
Methoxychlor		20.0	19.9	ug/L	56700000	0.700	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1924794
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357037-07
Instrument ID: HP15 Run Time: 23:19 Method: 8081A
File ID: 15G25054.F Analyst: ECL QC Key: DOD4
ICal Workgroup: WG357037 Cal ID: HP15 - 18-FEB-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
4,4'-DDD		20.0	19.9	ug/L	116000000	0.700	20	
4,4'-DDE		20.0	19.9	ug/L	142000000	0.400	20	
4,4'-DDT		20.0	19.1	ug/L	112000000	4.70	20	
Aldrin		20.0	19.6	ug/L	152000000	1.80	20	
alpha-Chlordane		20.0	19.6	ug/L	148000000	2.20	20	
alpha-BHC		20.0	19.8	ug/L	191000000	0.900	20	
beta-BHC		20.0	19.5	ug/L	76500000	2.70	20	
delta-BHC		20.0	20.0	ug/L	180000000	0.100	20	
Dieldrin		20.0	20.5	ug/L	138000000	2.70	20	
Endosulfan I		20.0	20.0	ug/L	138000000	0.200	20	
Endosulfan II		20.0	19.3	ug/L	119000000	3.70	20	
Endosulfan Sulfate		20.0	19.2	ug/L	102000000	3.90	20	
Endrin		20.0	19.7	ug/L	132000000	1.70	20	
Endrin Aldehyde		20.0	18.7	ug/L	91900000	6.50	20	
Endrin Ketone		20.0	20.1	ug/L	118000000	0.600	20	
gamma-Chlordane		20.0	19.4	ug/L	156000000	3.20	20	
gamma-BHC		20.0	19.7	ug/L	176000000	1.40	20	
Heptachlor		20.0	19.8	ug/L	171000000	0.800	20	
Heptachlor Epoxide		20.0	19.4	ug/L	151000000	2.80	20	
Methoxychlor		20.0	19.9	ug/L	56700000	0.700	20	

* Exceeds %D Limit

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/19/2011 Sample ID: WG357038-03

Instrument ID: HP15 Run Time: 05:00 Method: 8081A

File ID: 15G25066.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357013 Cal ID: HP15 - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	18.9	ug/L	110000000	5.50	20	
4,4'-DDE		20.0	18.7	ug/L	134000000	6.30	20	
4,4'-DDT		20.0	17.5	ug/L	103000000	12.7	20	
Aldrin		20.0	18.8	ug/L	146000000	5.91	20	
alpha-Chlordane		20.0	17.9	ug/L	136000000	10.3	20	
alpha-BHC		20.0	18.9	ug/L	182000000	5.34	20	
beta-BHC		20.0	18.4	ug/L	72300000	8.07	20	
delta-BHC		20.0	19.1	ug/L	171000000	4.53	20	
Dieldrin		20.0	19.3	ug/L	129000000	3.73	20	
Endosulfan I		20.0	18.8	ug/L	129000000	6.20	20	
Endosulfan II		20.0	18.7	ug/L	115000000	6.50	20	
Endosulfan Sulfate		20.0	17.7	ug/L	94400000	11.4	20	
Endrin		20.0	18.5	ug/L	124000000	7.65	20	
Endrin Aldehyde		20.0	17.7	ug/L	86900000	11.6	20	
Endrin Ketone		20.0	18.0	ug/L	106000000	10.1	20	
gamma-Chlordane		20.0	18.1	ug/L	146000000	9.61	20	
gamma-BHC		20.0	18.7	ug/L	168000000	6.26	20	
Heptachlor		20.0	18.6	ug/L	160000000	7.23	20	
Heptachlor Epoxide		20.0	18.3	ug/L	142000000	8.53	20	
Methoxychlor		20.0	17.8	ug/L	50800000	11.1	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/19/2011 Sample ID: WG357036-01

Instrument ID: HP15 Run Time: 05:28 Method: 8081A

File ID: 15G25067.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357013 Cal ID: HP15 - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	429	ug/L	1630000	14.1	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/19/2011 Sample ID: WG357044-02

Instrument ID: HP15 Run Time: 12:00 Method: 8081A

File ID: 15G25080.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357013 Cal ID: HP15 - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	19.4	ug/L	113000000	3.25	20	
4,4'-DDE		20.0	19.3	ug/L	138000000	3.48	20	
4,4'-DDT		20.0	17.9	ug/L	105000000	10.6	20	
Aldrin		20.0	19.5	ug/L	151000000	2.34	20	
alpha-Chlordane		20.0	17.7	ug/L	134000000	11.5	20	
alpha-BHC		20.0	19.4	ug/L	186000000	3.20	20	
beta-BHC		20.0	18.8	ug/L	74000000	5.89	20	
delta-BHC		20.0	19.3	ug/L	174000000	3.27	20	
Dieldrin		20.0	17.8	ug/L	120000000	10.9	20	
Endosulfan I		20.0	18.4	ug/L	127000000	7.90	20	
Endosulfan II		20.0	18.5	ug/L	114000000	7.36	20	
Endosulfan Sulfate		20.0	17.8	ug/L	94900000	10.9	20	
Endrin		20.0	19.0	ug/L	127000000	5.13	20	
Endrin Aldehyde		20.0	18.0	ug/L	88200000	10.2	20	
Endrin Ketone		20.0	18.0	ug/L	106000000	10.1	20	
gamma-Chlordane		20.0	18.4	ug/L	149000000	7.77	20	
gamma-BHC		20.0	19.2	ug/L	171000000	4.24	20	
Heptachlor		20.0	19.1	ug/L	164000000	4.66	20	
Heptachlor Epoxide		20.0	18.8	ug/L	146000000	5.85	20	
Methoxychlor		20.0	17.5	ug/L	49900000	12.6	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/19/2011 Sample ID: WG357045-01

Instrument ID: HP15 Run Time: 13:17 Method: 8081A

File ID: 15G25081.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357013 Cal ID: HP15 - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	424	ug/L	1610000	15.2	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/19/2011 Sample ID: WG357044-03

Instrument ID: HP15 Run Time: 18:28 Method: 8081A

File ID: 15G25092.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357013 Cal ID: HP15 - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		10.0	9.07	ug/L	106000000	9.32	20	
4,4'-DDE		10.0	9.28	ug/L	132000000	7.23	20	
4,4'-DDT		10.0	8.74	ug/L	103000000	12.6	20	
Aldrin		10.0	9.52	ug/L	147000000	4.81	20	
alpha-Chlordane		10.0	8.46	ug/L	128000000	15.4	20	
alpha-BHC		10.0	9.10	ug/L	175000000	8.96	20	
beta-BHC		10.0	9.25	ug/L	72700000	7.49	20	
delta-BHC		10.0	9.16	ug/L	164000000	8.37	20	
Dieldrin		10.0	8.19	ug/L	110000000	18.1	20	
Endosulfan I		10.0	8.92	ug/L	123000000	10.8	20	
Endosulfan II		10.0	9.15	ug/L	113000000	8.50	20	
Endosulfan Sulfate		10.0	8.55	ug/L	91200000	14.5	20	
Endrin		10.0	9.03	ug/L	121000000	9.72	20	
Endrin Aldehyde		10.0	8.79	ug/L	86400000	12.1	20	
Endrin Ketone		10.0	8.61	ug/L	101000000	13.9	20	
gamma-Chlordane		10.0	8.79	ug/L	142000000	12.1	20	
gamma-BHC		10.0	9.30	ug/L	166000000	7.02	20	
Heptachlor		10.0	9.33	ug/L	161000000	6.70	20	
Heptachlor Epoxide		10.0	8.96	ug/L	139000000	10.4	20	
Methoxychlor		10.0	8.46	ug/L	48300000	15.4	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/19/2011 Sample ID: WG357045-02

Instrument ID: HP15 Run Time: 18:56 Method: 8081A

File ID: 15G25093.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357013 Cal ID: HP15 - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		200	179	ug/L	1630000	10.6	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357262-02

Instrument ID: HP15 Run Time: 13:24 Method: 8081A

File ID: 15G25176.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357023 Cal ID: HP15 - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		20.0	19.2	ug/L	112000000	4.01	20	
4,4'-DDE		20.0	19.7	ug/L	141000000	1.42	20	
4,4'-DDT		20.0	18.9	ug/L	111000000	5.50	20	
Aldrin		20.0	19.4	ug/L	150000000	2.91	20	
alpha-Chlordane		20.0	18.9	ug/L	143000000	5.47	20	
alpha-BHC		20.0	19.0	ug/L	183000000	4.83	20	
beta-BHC		20.0	18.4	ug/L	72400000	7.96	20	
delta-BHC		20.0	18.9	ug/L	170000000	5.48	20	
Dieldrin		20.0	20.4	ug/L	137000000	2.12	20	
Endosulfan I		20.0	19.5	ug/L	134000000	2.62	20	
Endosulfan II		20.0	19.2	ug/L	118000000	4.08	20	
Endosulfan Sulfate		20.0	18.5	ug/L	98400000	7.70	20	
Endrin		20.0	19.1	ug/L	128000000	4.49	20	
Endrin Aldehyde		20.0	18.6	ug/L	91500000	6.89	20	
Endrin Ketone		20.0	18.6	ug/L	110000000	6.91	20	
gamma-Chlordane		20.0	18.9	ug/L	153000000	5.27	20	
gamma-BHC		20.0	18.8	ug/L	168000000	5.85	20	
Heptachlor		20.0	18.9	ug/L	163000000	5.42	20	
Heptachlor Epoxide		20.0	18.9	ug/L	147000000	5.65	20	
Methoxychlor		20.0	18.8	ug/L	53800000	5.82	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357263-01

Instrument ID: HP15 Run Time: 14:54 Method: 8081A

File ID: 15G25177.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357023 Cal ID: HP15 - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		500	460	ug/L	1740000	8.09	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357262-03

Instrument ID: HP15 Run Time: 19:37 Method: 8081A

File ID: 15G25187.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357023 Cal ID: HP15 - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
4,4'-DDD		10.0	9.43	ug/L	110000000	5.70	20	
4,4'-DDE		10.0	9.58	ug/L	136000000	4.25	20	
4,4'-DDT		10.0	9.36	ug/L	110000000	6.44	20	
Aldrin		10.0	9.54	ug/L	148000000	4.59	20	
alpha-Chlordane		10.0	9.36	ug/L	142000000	6.45	20	
alpha-BHC		10.0	9.09	ug/L	175000000	9.05	20	
beta-BHC		10.0	9.27	ug/L	72900000	7.31	20	
delta-BHC		10.0	9.03	ug/L	162000000	9.71	20	
Dieldrin		10.0	9.88	ug/L	133000000	1.16	20	
Endosulfan I		10.0	9.74	ug/L	134000000	2.64	20	
Endosulfan II		10.0	9.61	ug/L	118000000	3.87	20	
Endosulfan Sulfate		10.0	9.42	ug/L	100000000	5.77	20	
Endrin		10.0	9.40	ug/L	126000000	6.02	20	
Endrin Aldehyde		10.0	9.68	ug/L	95100000	3.23	20	
Endrin Ketone		10.0	9.50	ug/L	112000000	4.97	20	
gamma-Chlordane		10.0	9.34	ug/L	151000000	6.55	20	
gamma-BHC		10.0	9.18	ug/L	164000000	8.21	20	
Heptachlor		10.0	9.43	ug/L	162000000	5.72	20	
Heptachlor Epoxide		10.0	9.51	ug/L	148000000	4.93	20	
Methoxychlor		10.0	9.73	ug/L	55600000	2.69	20	
Toxaphene		NA		ug/L			20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357263-02

Instrument ID: HP15 Run Time: 20:06 Method: 8081A

File ID: 15G25188.F Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357023 Cal ID: HP15 - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Toxaphene		200	178	ug/L	1700000	11.0	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924795

Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357038-01
Instrument ID: HP15 Run Time: 14:48 Method: 8081
File ID: 15G25040.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	201189959
4,4'-DDE	108677236
4,4'-DDT	6020909884

DDT % BREAKDOWN: 4.89

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	6997125236
ENDRIN ALDEHYDE	0
ENDRIN KETONE	95779535

ENDRIN % BREAKDOWN: 1.35

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1924792
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L11020447 Run Date: 02/19/2011 Sample ID: WG357038-02
Instrument ID: HP15 Run Time: 04:31 Method: 8081
File ID: 15G25065.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	208124108
4,4'-DDE	122522623
4,4'-DDT	4717698560

DDT % BREAKDOWN: 6.55

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	5844319602
ENDRIN ALDEHYDE	0
ENDRIN KETONE	110867229

ENDRIN % BREAKDOWN: 1.86

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1924792
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L11020447 Run Date: 02/19/2011 Sample ID: WG357044-01
Instrument ID: HP15 Run Time: 11:32 Method: 8081
File ID: 15G25079.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	281430193
4,4'-DDE	203294288
4,4'-DDT	5518097624

DDT % BREAKDOWN: 8.07

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	6826165403
ENDRIN ALDEHYDE	0
ENDRIN KETONE	109316648

ENDRIN % BREAKDOWN: 1.58

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1924792
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L11020447 Run Date: 02/20/2011 Sample ID: WG357044-04
Instrument ID: HP15 Run Time: 00:08 Method: 8081
File ID: 15G25104.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN	
Analyte	Response
4,4'-DDD	298432769
4,4'-DDE	231022824
4,4'-DDT	5184574584

DDT % BREAKDOWN: 9.27

ENDRIN BREAKDOWN	
Analyte	Response
ENDRIN	6510294826
ENDRIN ALDEHYDE	0
ENDRIN KETONE	113539752

ENDRIN % BREAKDOWN: 1.71

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1924792
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357262-01
Instrument ID: HP15 Run Time: 12:56 Method: 8081
File ID: 15G25175.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	109736663
4,4'-DDE	97570294
4,4'-DDT	5387587656

DDT % BREAKDOWN: 3.71

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	6296950947
ENDRIN ALDEHYDE	0
ENDRIN KETONE	124420556

ENDRIN % BREAKDOWN: 1.94

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1924792
Report generated 02/23/2011 16:00

Microbac Laboratories Inc.

ENDRIN/4,4'-DDT BREAKDOWN (BRKDWN)

Login Number: L11020447 Run Date: 02/23/2011 Sample ID: WG357262-05
Instrument ID: HP15 Run Time: 10:43 Method: 8081
File ID: 15G25219.F Analyst: ECL Column ID: FRONT

DDT BREAKDOWN

Analyte	Response
4,4'-DDD	137693735
4,4'-DDE	172213949
4,4'-DDT	4977267066

DDT % BREAKDOWN: 5.86

ENDRIN BREAKDOWN

Analyte	Response
ENDRIN	5863759659
ENDRIN ALDEHYDE	0
ENDRIN KETONE	118486185

ENDRIN % BREAKDOWN: 1.98

* Exceeds 15% Criteria

Report Name: BRKDWN
PDF File ID: 1924792
Report generated 02/23/2011 16:00

2.1.2.3 Sample Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25181.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 16:47 (#1); 22 Feb 2011 17:16 (#2)
Operator : ECL
Sample : L11020447-01 REF
Misc : 7,1 SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	1595.0E6	1239.7E6	12.283	12.844
	Spiked Amount	20.000	Range 29 - 133		Recovery =	61.41%	64.22%
22) S	Decachlorobiphen	18.55	18.86	999.0E6	704.4E6	11.234	11.000
	Spiked Amount	20.000	Range 30 - 173		Recovery =	56.17%	55.00%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

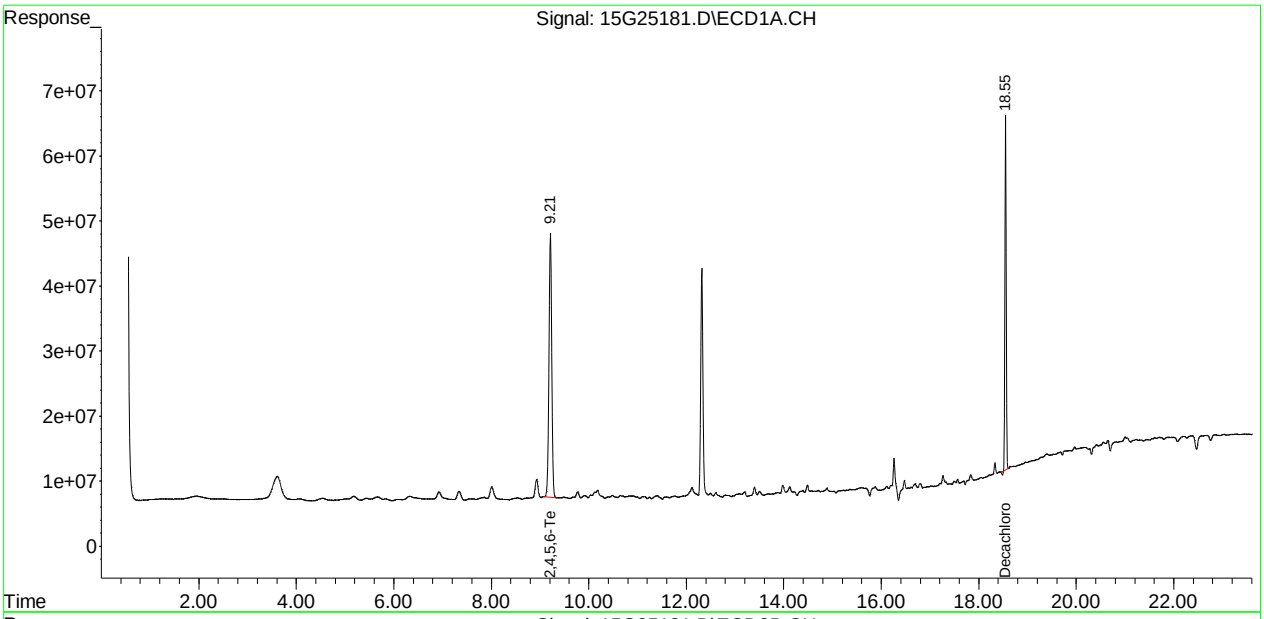
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

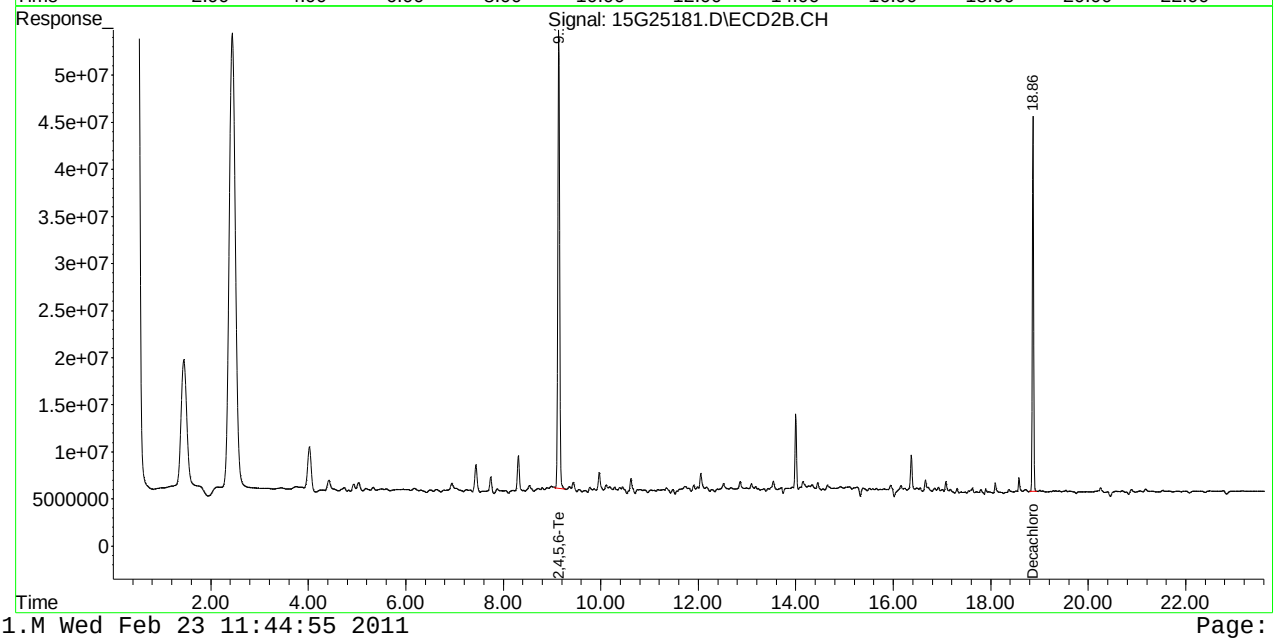
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25181.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 16:47 (#1); 22 Feb 2011 17:16 (#2)
Operator : ECL
Sample : L11020447-01 REF
Misc : 7,1 SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25184.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 18:12 (#1); 22 Feb 2011 18:41 (#2)
Operator : ECL
Sample : L11020447-02
Misc : 7,1 SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:40:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.21	9.14	1475.8E6	1123.6E6	11.366	11.641	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	56.83%	58.20%	
22) S	Decachlorobiphen	18.55	18.86	881.8E6	602.6E6	9.916	9.410	
	Spiked Amount	20.000	Range 30 - 173		Recovery =	49.58%	47.05%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	14.38	0.00	99768553	0	0.700	N.D.	#
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

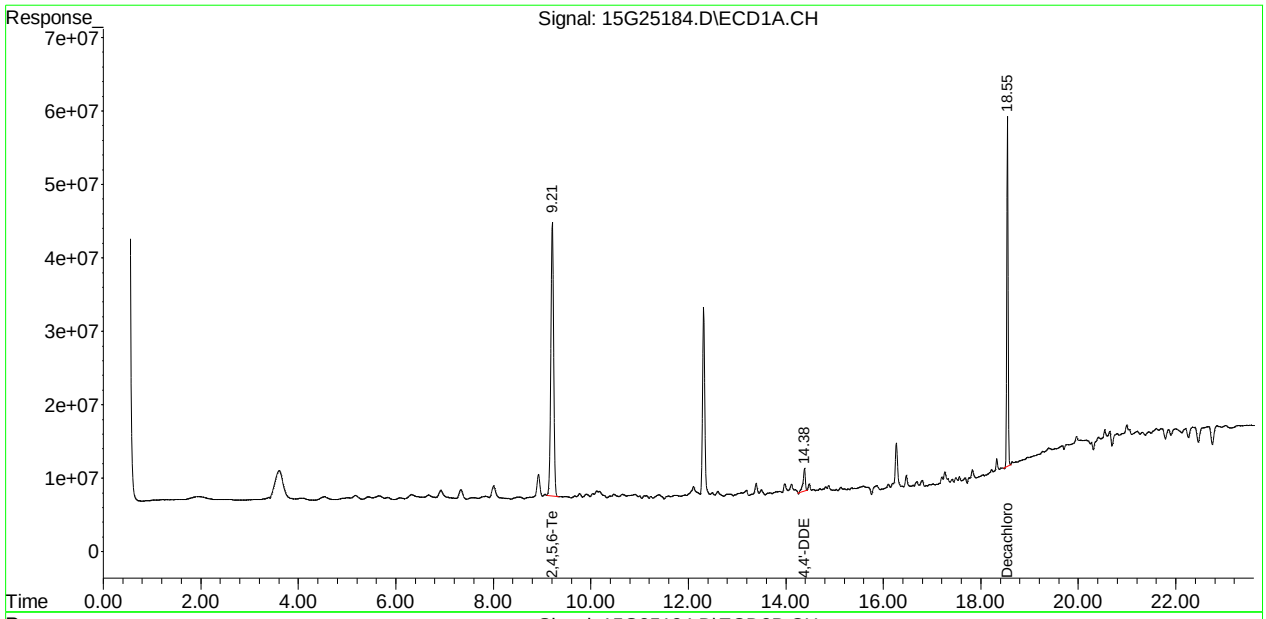
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

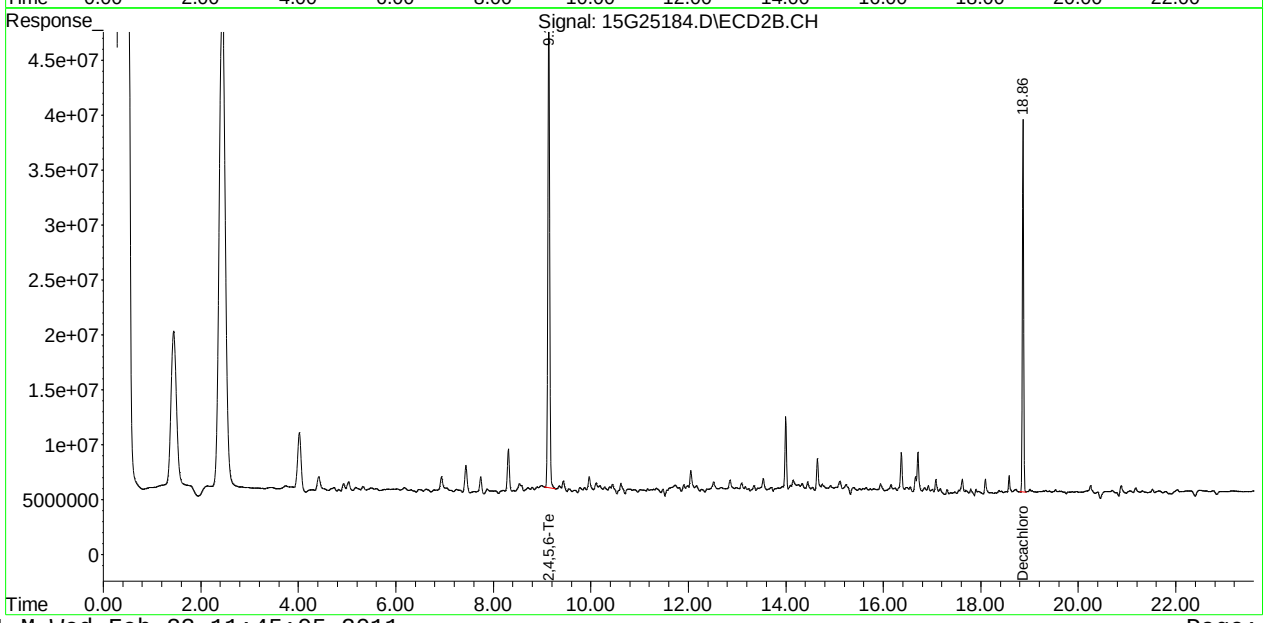
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25184.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 18:12 (#1); 22 Feb 2011 18:41 (#2)
Operator : ECL
Sample : L11020447-02
Misc : 7,1 SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:40:00 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25182.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 17:16 (#1); 22 Feb 2011 17:44 (#2)
Operator : ECL
Sample : L11020447-03 MS
Misc : 7,1 SOIL
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

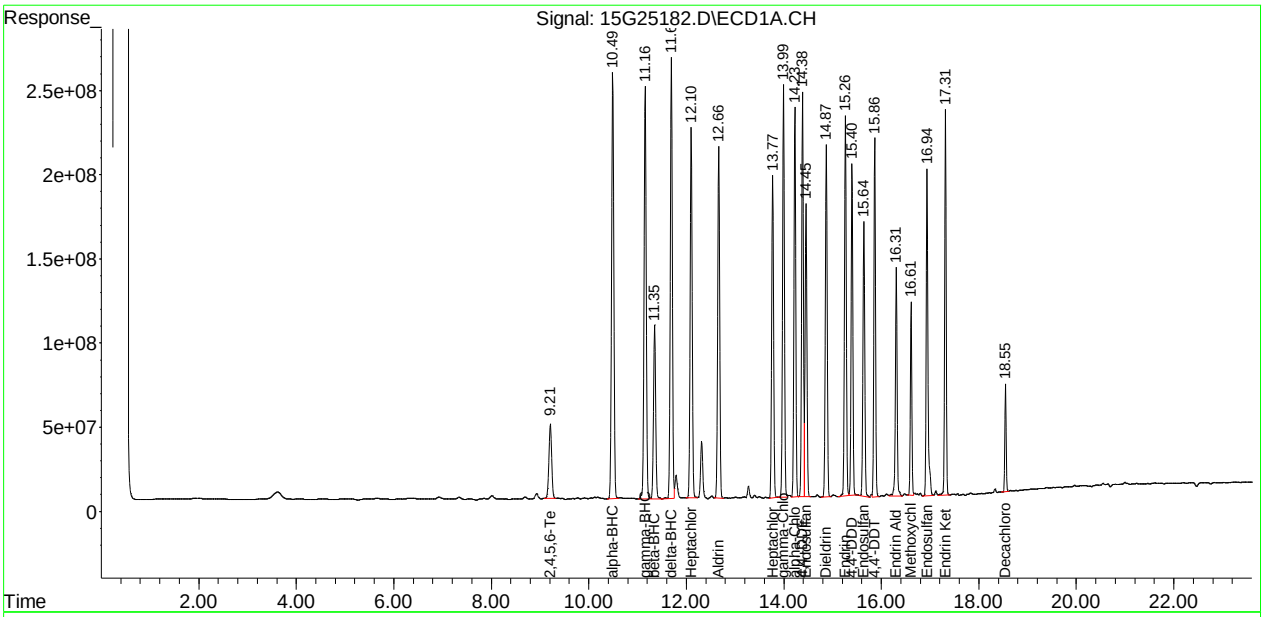
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	1743.6E6	1329.3E6	13.428	13.773
	Spiked Amount	20.000	Range 29 - 133		Recovery =	67.14%	68.86%
22) S	Decachlorobiphen	18.55	18.86	1175.4E6	827.0E6	13.217	12.915
	Spiked Amount	20.000	Range 30 - 173		Recovery =	66.09%	64.57%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	8073.4E6	6096.7E6	41.920	43.498
3)	gamma-BHC	11.16	11.23	7542.8E6	5833.5E6	42.188	43.115
4)	beta-BHC	11.35	11.41	3170.5E6	2358.6E6	40.326	39.607
5)	Heptachlor	12.10	12.08	6301.5E6	5253.1E6	36.577	41.019
6)	delta-BHC	11.69	11.98	7591.2E6	5884.6E6	42.288	42.756
7)	Aldrin	12.66	12.69	5924.6E6	4797.5E6	38.268	38.508
8)	Heptachlor Epoxi	13.77	13.74	5234.8E6	4055.1E6	33.641	39.162
9)	gamma-Chlordane	13.99	14.08	6404.5E6	4769.9E6	39.613	40.643
10)	alpha-Chlordane	14.23	14.34	5890.0E6	4629.8E6	38.902	40.654
11)	Endosulfan I	14.45	14.43	4548.8E6	3422.8E6	33.022	36.491
12)	4,4'-DDE	14.38	14.65	5946.2E6	4505.8E6	41.717	41.783
13)	Dieldrin	14.87	14.91	5569.2E6	4735.2E6	41.488	42.663
14)	Endrin	15.26	15.44	5863.5E6	4374.0E6	43.797	47.227
15)	4,4'-DDD	15.40	15.64	4748.0E6	3721.9E6	40.738	42.461
16)	Endosulfan II	15.64	15.80	4270.8E6	3303.1E6	34.678	34.973
17)	4,4'-DDT	15.86	16.15	4961.7E6	3685.8E6	42.185	41.782
18)	Endrin Aldehyde	16.31	16.33	3319.6E6	2344.6E6	33.781	33.672
19)	Endosulfan Sulfa	16.94	16.74	4786.9E6	3270.4E6	44.902	39.218
20)	Methoxychlor	16.61	17.13	2399.1E6	2177.0E6	42.023	51.484
21)	Endrin Ketone	17.32	17.45	4901.6E6	3517.8E6	41.626	40.745

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25182.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 17:16 (#1); 22 Feb 2011 17:44 (#2)
Operator : ECL
Sample : L11020447-03 MS
Misc : 7,1 SOIL
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25183.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 17:44 (#1); 22 Feb 2011 18:12 (#2)
Operator : ECL
Sample : L11020447-04 MSD
Misc : 7,1 SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	1660.4E6	1292.6E6	12.787	13.393
	Spiked Amount	20.000	Range 29 - 133		Recovery =	63.94%	66.97%
22) S	Decachlorobiphen	18.55	18.86	1121.2E6	786.7E6	12.608	12.286
	Spiked Amount	20.000	Range 30 - 173		Recovery =	63.04%	61.43%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	8099.4E6	6127.4E6	42.055	43.718
3)	gamma-BHC	11.16	11.23	7570.9E6	5927.7E6	42.345	43.811
4)	beta-BHC	11.35	11.41	3217.7E6	2406.4E6	40.926	40.411
5)	Heptachlor	12.10	12.08	6684.3E6	5406.0E6	38.800	42.213
6)	delta-BHC	11.69	11.98	7614.3E6	5942.3E6	42.416	43.175
7)	Aldrin	12.66	12.69	6154.6E6	5041.9E6	39.753	40.470
8)	Heptachlor Epoxi	13.77	13.74	5641.7E6	4053.7E6	36.257	39.148
9)	gamma-Chlordane	13.99	14.08	6510.0E6	4897.4E6	40.265	41.730
10)	alpha-Chlordane	14.23	14.34	6078.6E6	4763.9E6	40.147	41.832
11)	Endosulfan I	14.45	14.43	4608.5E6	3379.4E6	33.455	36.029
12)	4,4'-DDE	14.38	14.65	6164.7E6	4712.0E6	43.250	43.695
13)	Dieldrin	14.87	14.91	5871.4E6	4799.0E6	43.739	43.237
14)	Endrin	15.26	15.44	5881.8E6	4343.2E6	43.933	46.894
15)	4,4'-DDD	15.40	15.64	4885.6E6	3828.8E6	41.919	43.680
16)	Endosulfan II	15.64	15.80	4316.5E6	3330.7E6	35.050	35.265
17)	4,4'-DDT	15.86	16.15	5144.8E6	3857.4E6	43.741	43.727
18)	Endrin Aldehyde	16.31	16.33	3352.7E6	2289.8E6	34.118	32.885
19)	Endosulfan Sulfa	16.94	16.74	4785.3E6	3325.6E6	44.888	39.879
20)	Methoxychlor	16.61	17.13	2490.1E6	2215.6E6	43.618	52.397
21)	Endrin Ketone	17.32	17.45	4911.0E6	3522.6E6	41.706	40.800

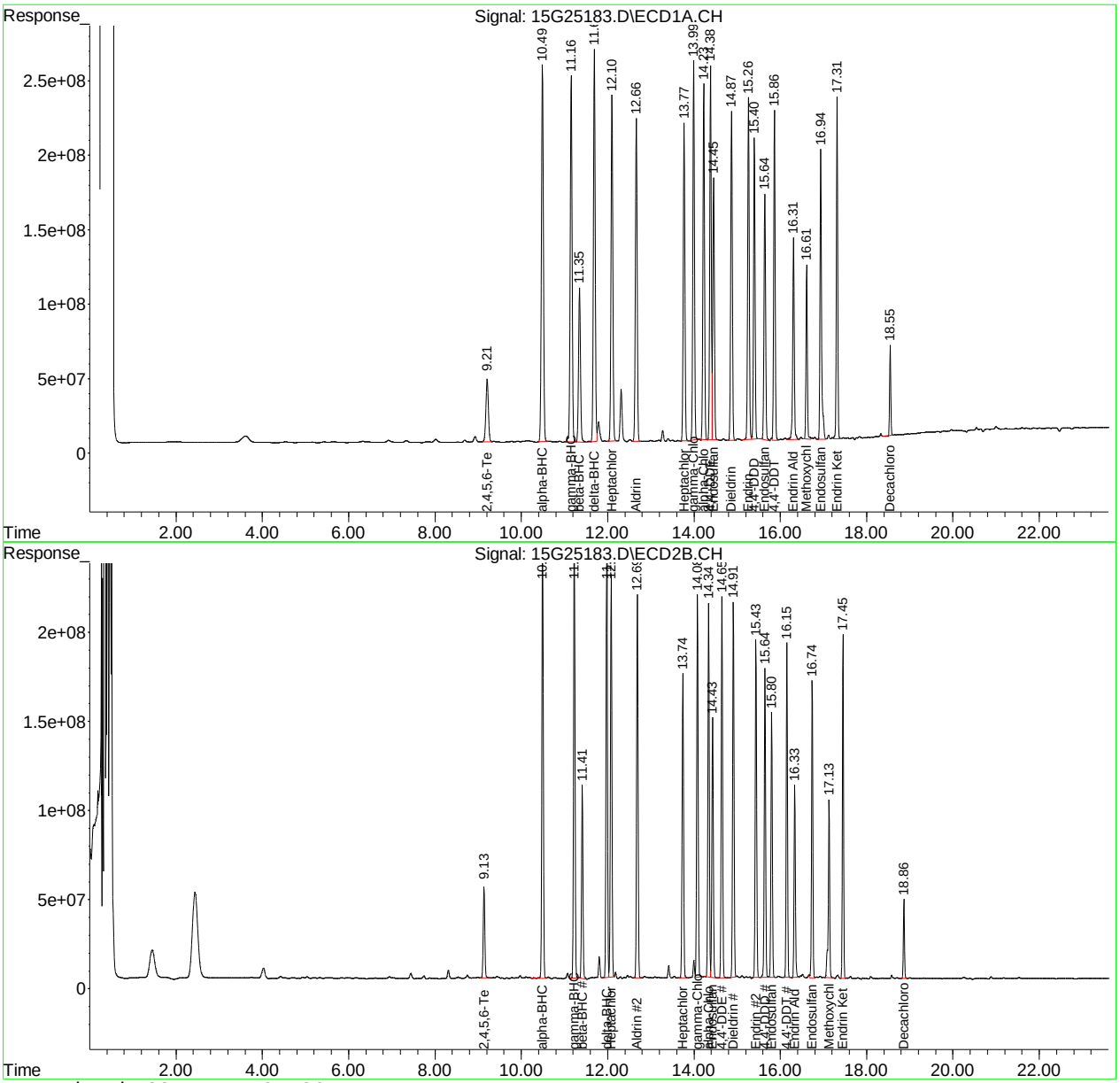
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25183.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 17:44 (#1); 22 Feb 2011 18:12 (#2)
Operator : ECL
Sample : L11020447-04 MSD
Misc : 7,1 SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021911\
Data File : 15G25086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 15:38 (#1); 19 Feb 2011 16:07 (#2)
Operator : ECL
Sample : L11020447-05
Misc : 1,1 WATER
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 12:19:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.21	9.13	1935.7E6	1431.0E6	14.907	14.826	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	74.53%	74.13%	
22) S	Decachlorobiphen	18.55	18.86	1089.6E6	765.6E6	12.252	11.957	
	Spiked Amount	20.000	Range 30 - 173		Recovery =	61.26%	59.78%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	13.98f	0.00	98184253	0	0.607	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.48	0.00	53898141	0	0.391	N.D.	#
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

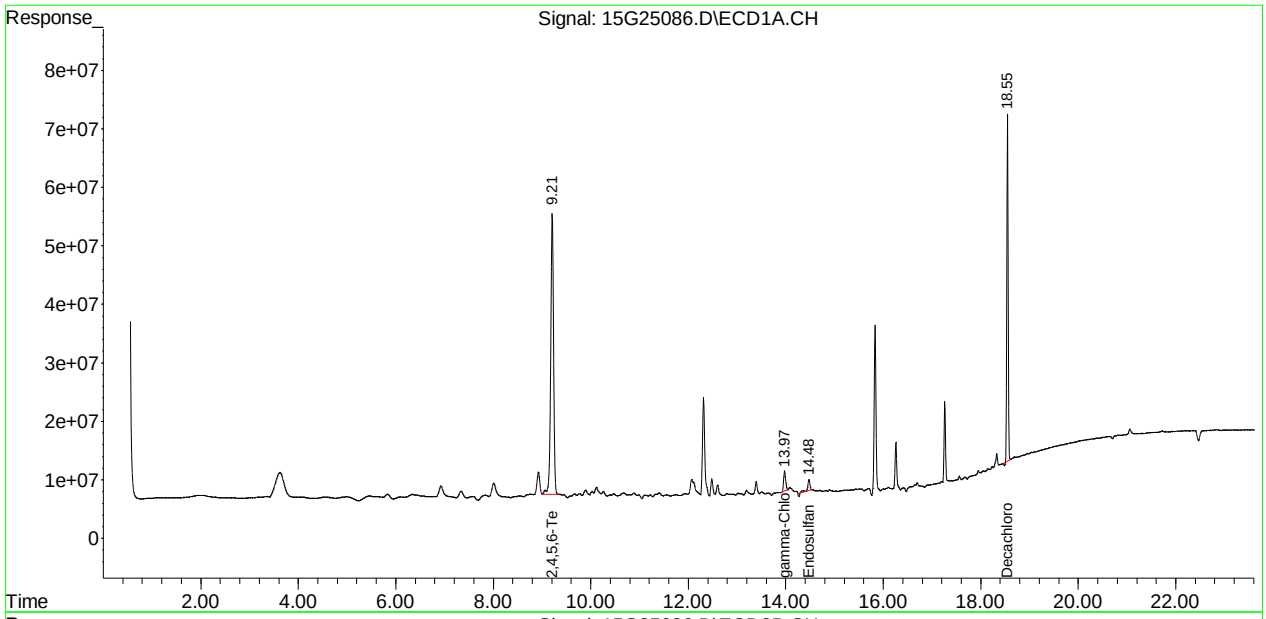
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

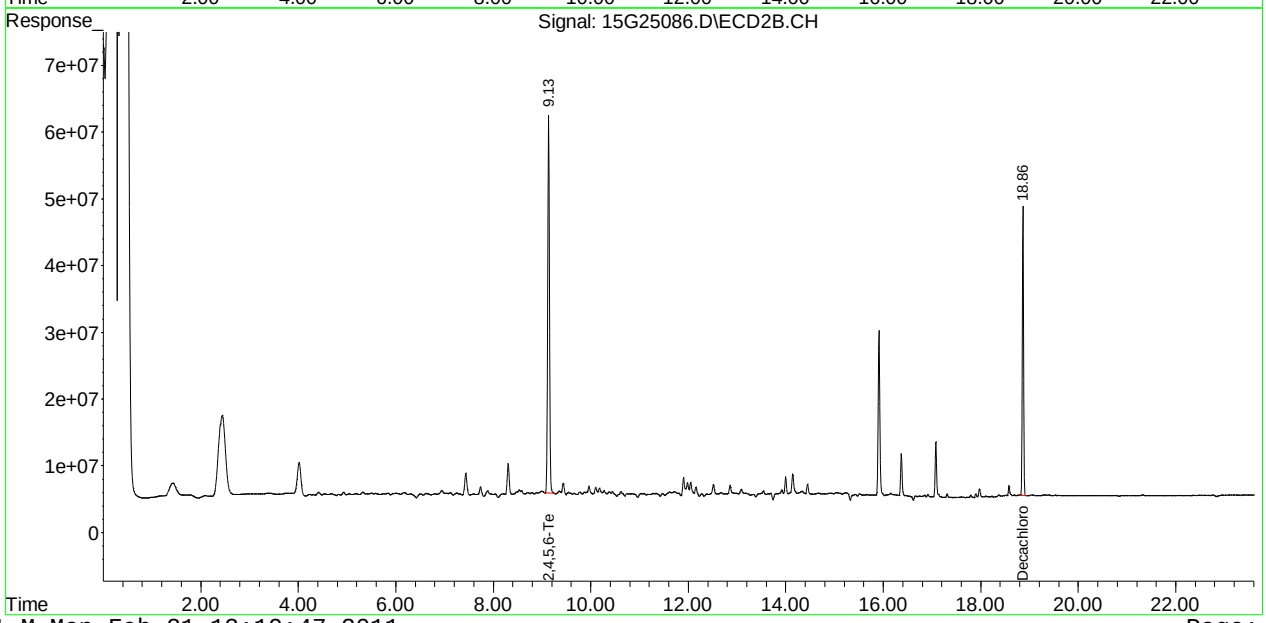
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021911\
Data File : 15G25086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 15:38 (#1); 19 Feb 2011 16:07 (#2)
Operator : ECL
Sample : L11020447-05
Misc : 1,1 WATER
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 12:19:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25185.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 18:41 (#1); 22 Feb 2011 19:09 (#2)
Operator : ECL
Sample : L11020447-06
Misc : 7,1 SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:40:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	1466.4E6	1123.1E6	11.293	11.636
	Spiked Amount	20.000	Range 29 - 133		Recovery =	56.46%	58.18%
22) S	Decachlorobiphen	18.55	18.86	972.0E6	697.5E6	10.929	10.893
	Spiked Amount	20.000	Range 30 - 173		Recovery =	54.64%	54.47%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

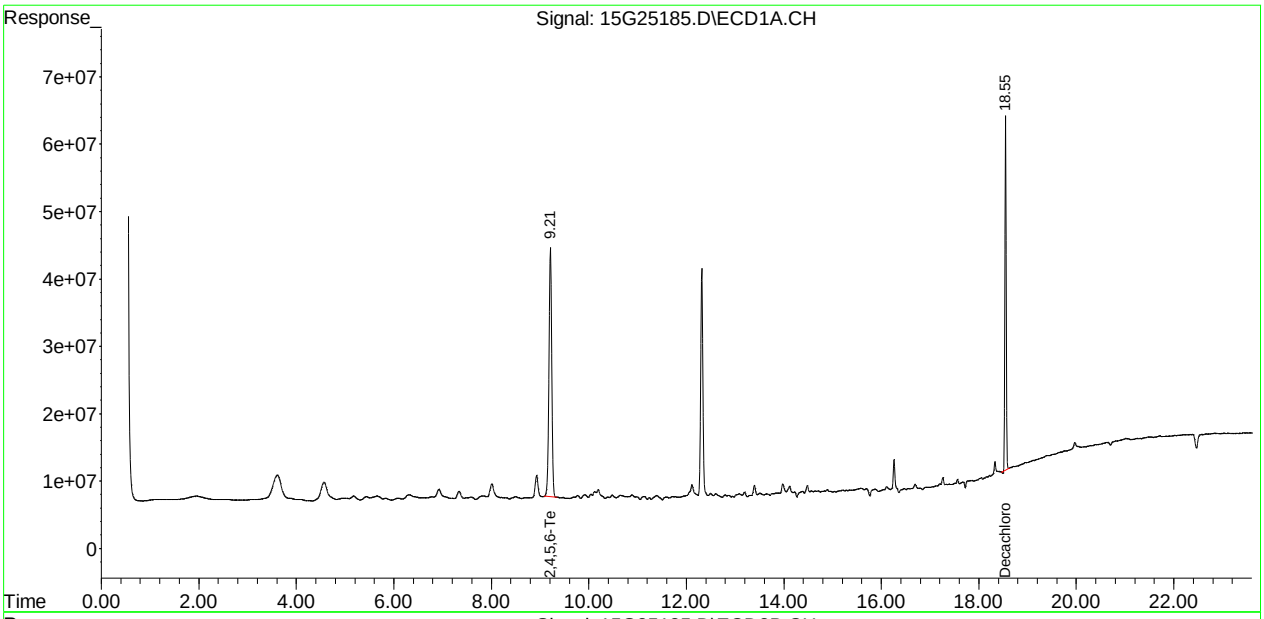
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

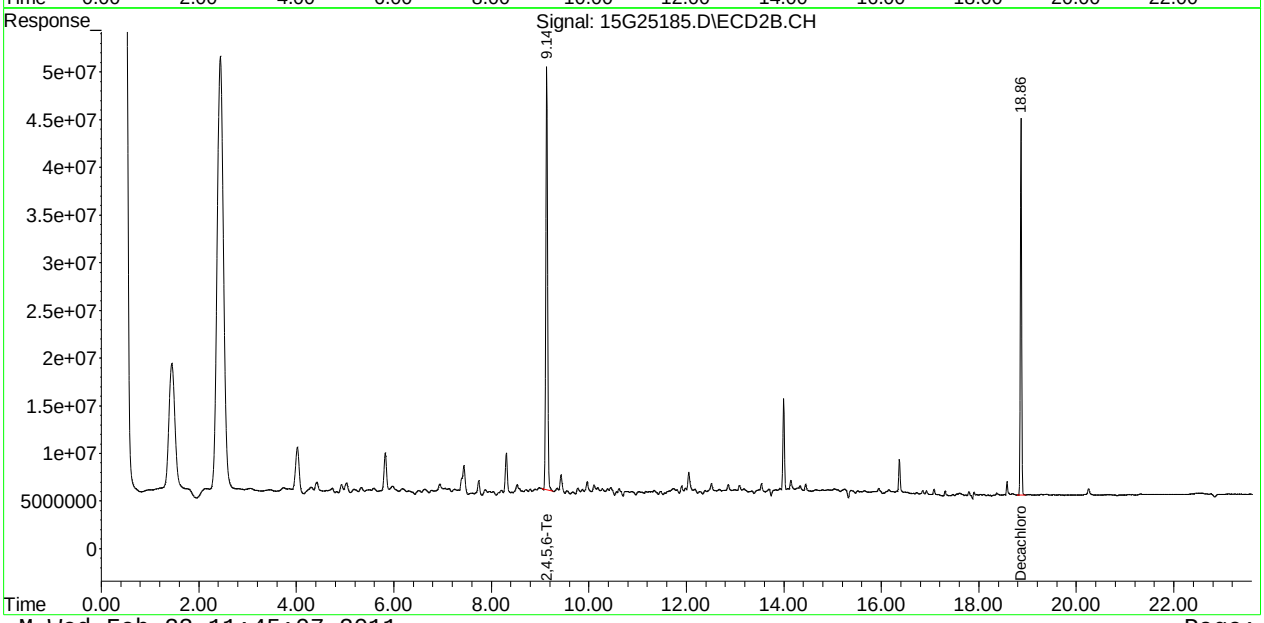
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25185.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 18:41 (#1); 22 Feb 2011 19:09 (#2)
Operator : ECL
Sample : L11020447-06
Misc : 7,1 SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:40:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25186.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 19:09 (#1); 22 Feb 2011 19:37 (#2)
Operator : ECL
Sample : L11020447-07
Misc : 7,1 SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:40:13 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

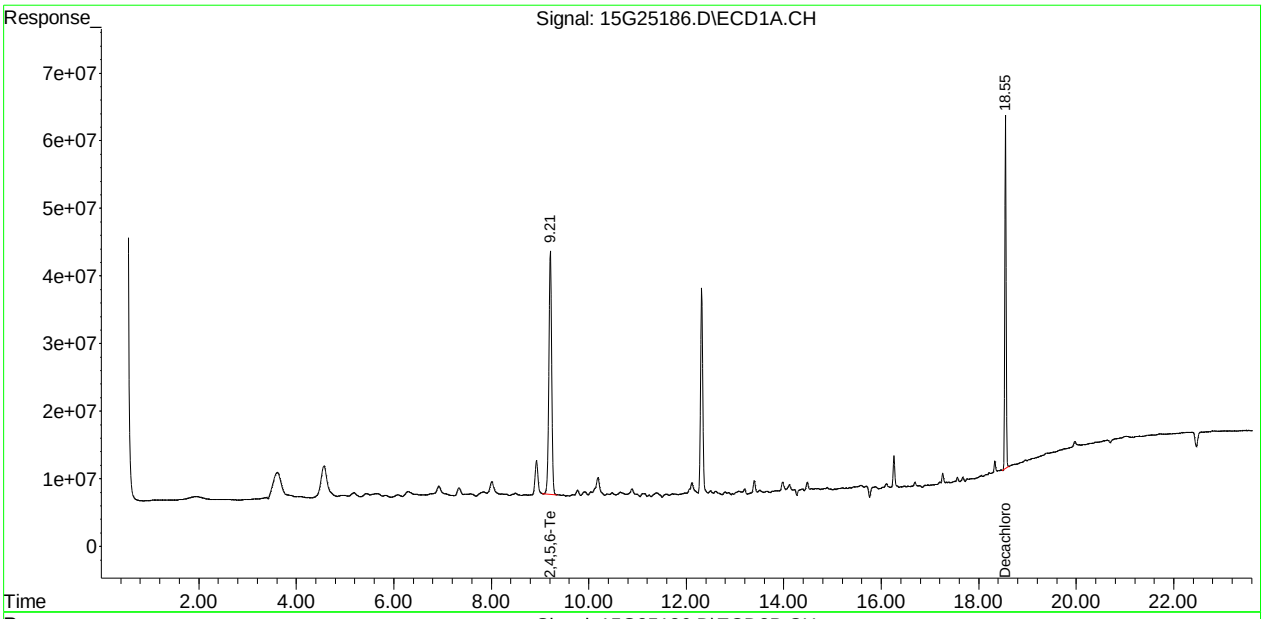
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	1425.8E6	1085.4E6	10.980	11.245
	Spiked Amount	20.000	Range 30 - 132		Recovery =	54.90%	56.22%
22) S	Decachlorobiphen	18.55	18.86	971.0E6	692.5E6	10.919	10.814
	Spiked Amount	20.000	Range 36 - 144		Recovery =	54.60%	54.07%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

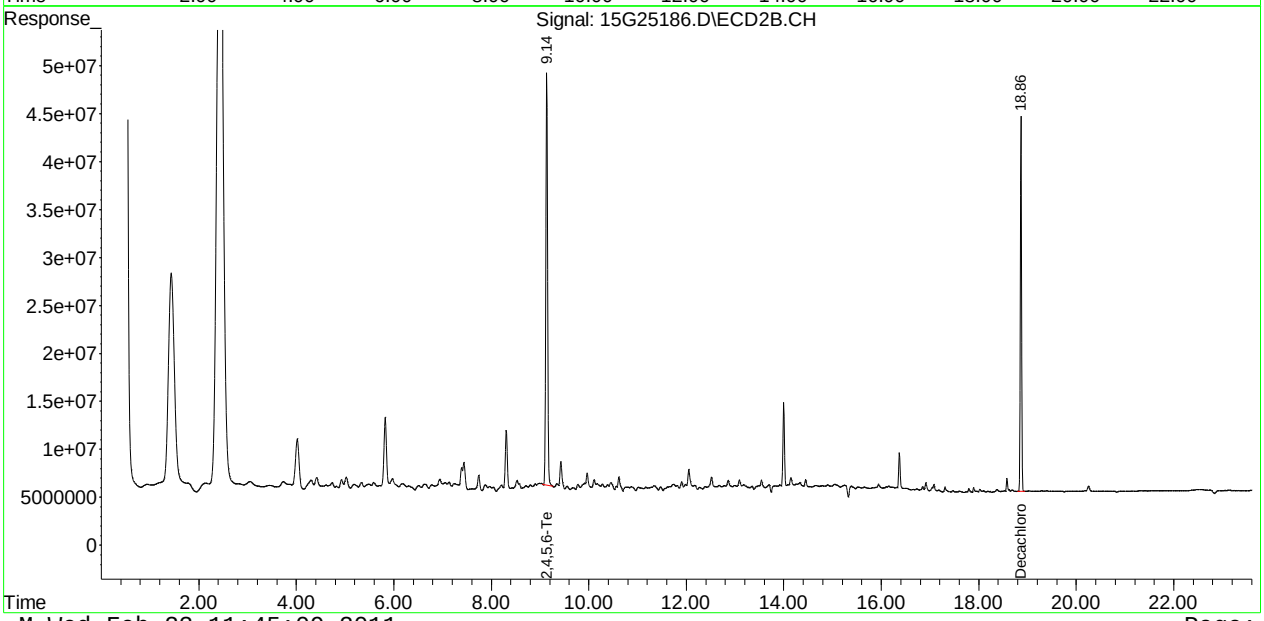
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25186.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 19:09 (#1); 22 Feb 2011 19:37 (#2)
Operator : ECL
Sample : L11020447-07
Misc : 7,1 SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:40:13 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





2.1.2.4 Standards Data

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 17:39 (#1); 18 Feb 2011 18:07 (#2)
Operator : ECL
Sample : WG357035-01 TOX ICAL 2000 PPB
Misc : 1,1 STD43915
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.88	2649.5E6	2054.8E6	2148.602	1951.591
2)	L1 Toxaphene-2	15.84	15.94	3808.2E6	6404.3E6	2071.008	1992.766
3)	L1 Toxaphene-3	16.81	16.73	6825.4E6	1988.7E6	2079.119m	2044.988
4)	L1 Toxaphene-4	17.04	17.07	3211.6E6	4523.6E6	2171.403	2031.588
5)	L1 Toxaphene-5	17.50	17.58	3019.1E6	1762.8E6	2179.577	2081.032
	Sum Toxaphene-1			19513.8E6	16734.2E6	10649.710	10101.964
Average	Toxaphene-1					2129.942	2020.393

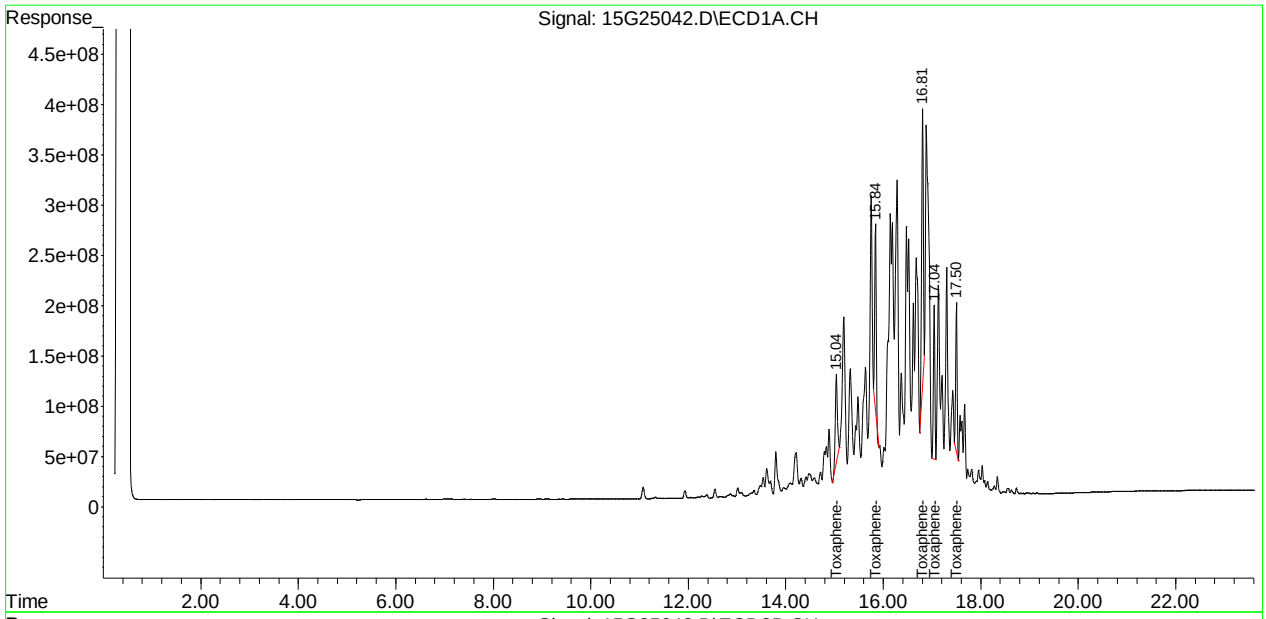
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

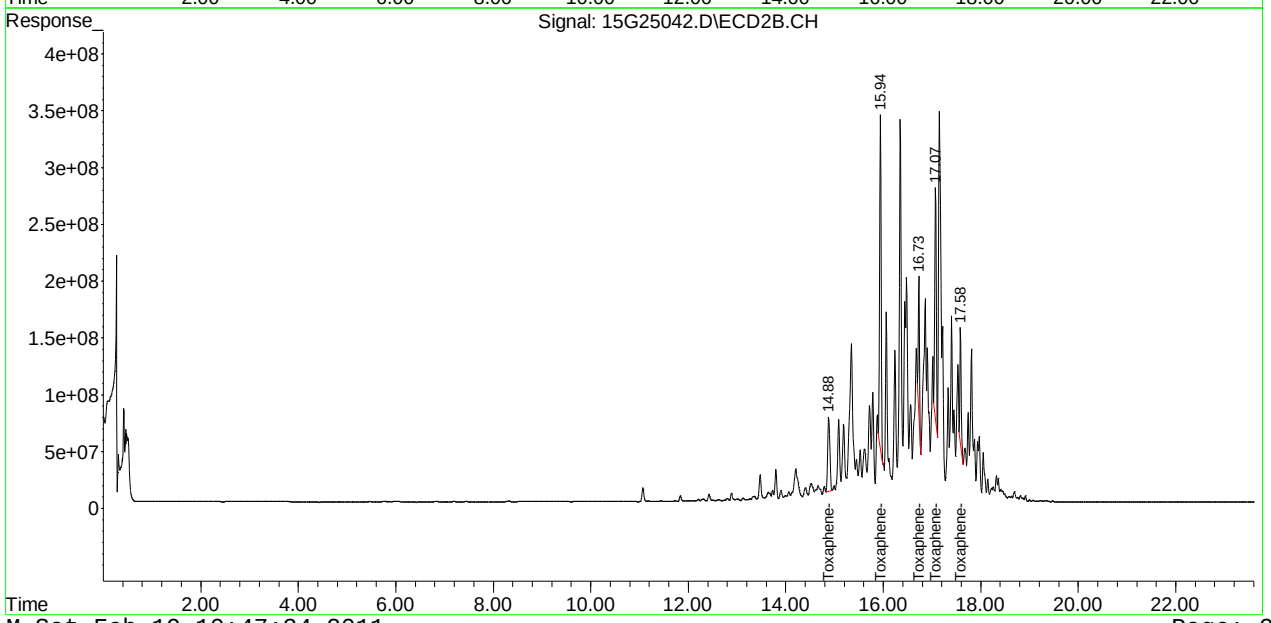
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 17:39 (#1); 18 Feb 2011 18:07 (#2)
Operator : ECL
Sample : WG357035-01 TOX ICAL 2000 PPB
Misc : 1,1 STD43915
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



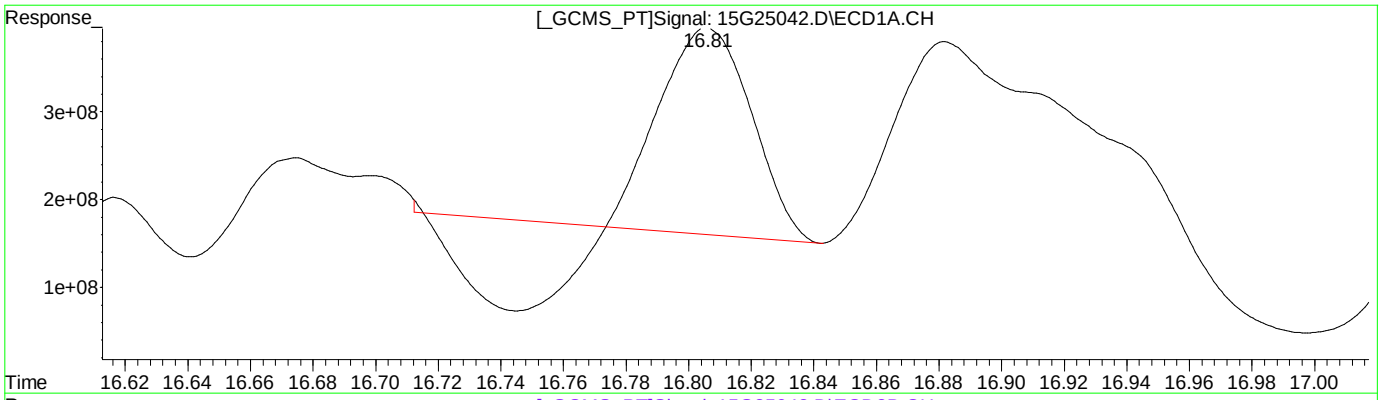


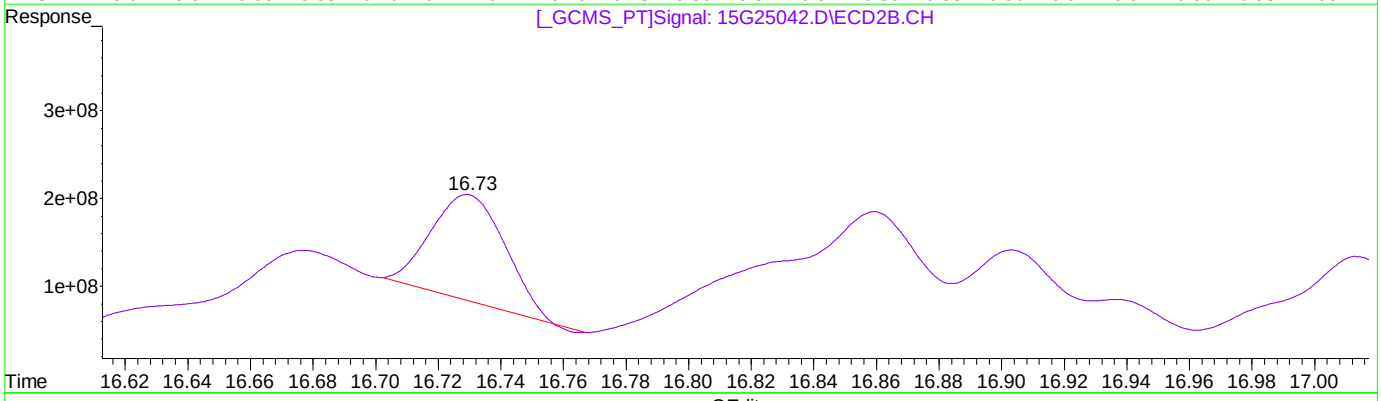
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 18 Feb 2011 17:39 (#1); 18 Feb 2011 18:07 (#2)
Operator : ECL
Sample   : WG357035-01 TOX ICAL 2000 PPB
Misc   : 1,1 STD43915
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(3) Toxaphene-3 (L1)

R.T.	Response	Conc
16.81	2908516681	885.98
17.04	3211627031	2171.40
17.50	3019075484	2179.58

(3) Toxaphene-3 #2 (L1)

R.T.	Response	Conc
16.73	1988673787	2044.99
17.07	4523621514	2031.59
17.58	1762775633	2081.03

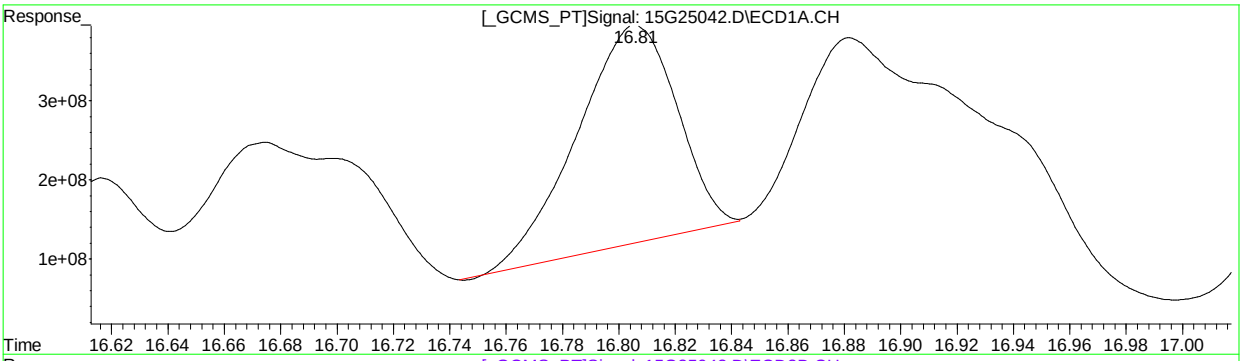
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 18 Feb 2011 17:39 (#1); 18 Feb 2011 18:07 (#2)
Operator : ECL
Sample   : WG357035-01 TOX ICAL 2000 PPB
Misc   : 1,1 STD43915
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :



(3) Toxaphene-3 #2 (L1)

R.T.	Response	Conc
16.81	6825382007	2079.12
17.04	3211627031	2171.40
17.50	3019075484	2179.58

(3) Toxaphene-3 #2 (L1)

R.T.	Response	Conc
16.73	1988673787	2044.99
17.07	4523621514	2031.59
17.58	1762775633	2081.03

(+) = Expected Retention Time

Approved: February 19, 2011	Supervisor: February 21, 2011
Reason #4: System Establishes Incorrect Baseline	
Eric C. Zimmerman	Cassie L. Augenstein

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 18:07 (#1); 18 Feb 2011 18:36 (#2)
Operator : ECL
Sample : WG357035-02 TOX ICAL 1000 PPB
Misc : 1,1 STD43915
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.88	1262.2E6	1053.0E6	1023.583	1000.119
2)	L1 Toxaphene-2	15.84	15.94	1890.8E6	3293.4E6	1028.285	1024.772
3)	L1 Toxaphene-3	16.80	16.73	3448.1E6	1017.1E6	1050.351	1045.907
4)	L1 Toxaphene-4	17.04	17.07	1550.6E6	2249.5E6	1048.342	1010.283
5)	L1 Toxaphene-5	17.50	17.58	1458.1E6	882.0E6	1052.646	1041.207
	Sum Toxaphene-1			9609.8E6	8495.0E6	5203.207	5122.289
Average	Toxaphene-1					1040.641	1024.458

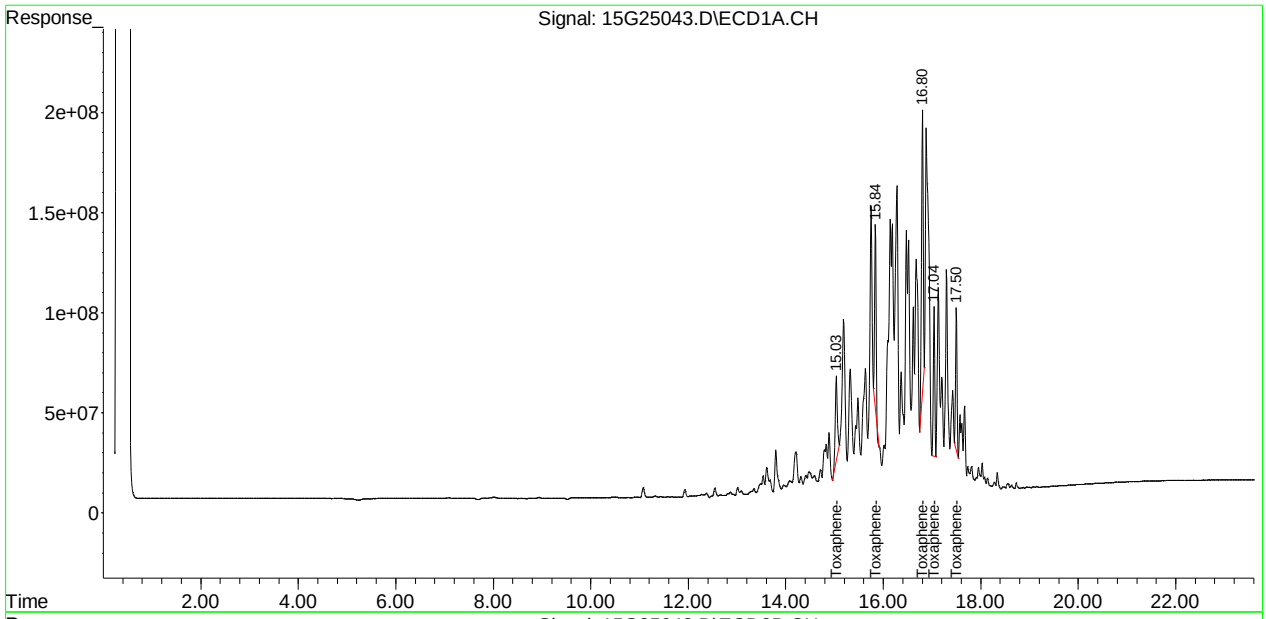
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

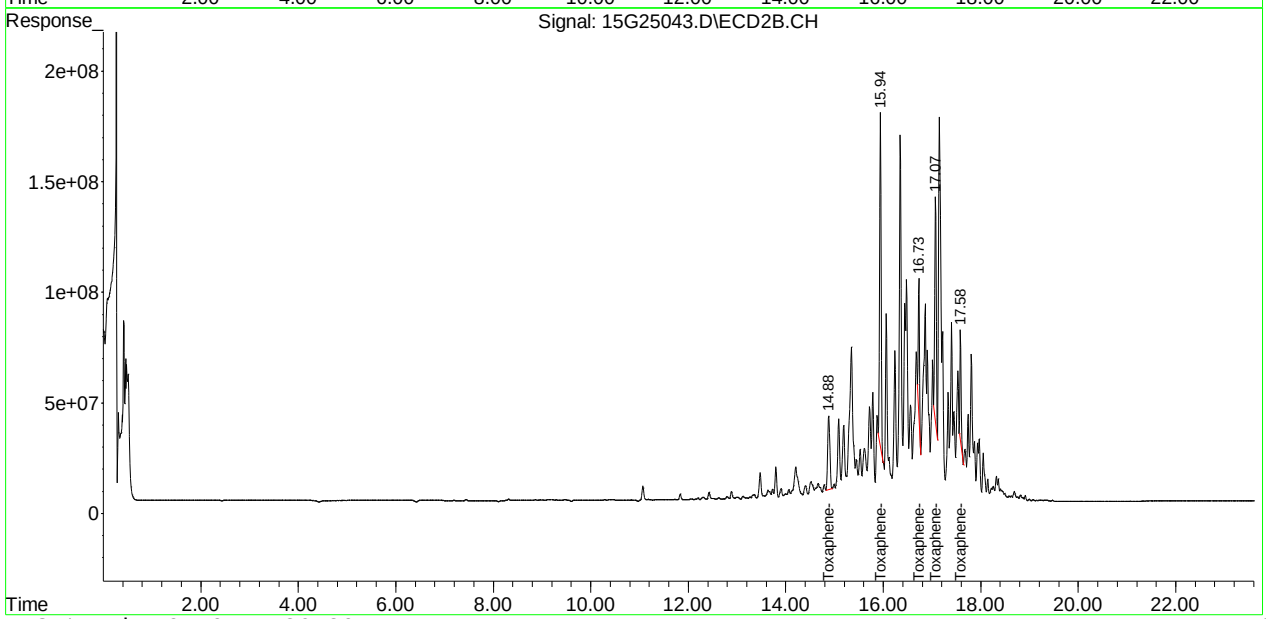
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 18:07 (#1); 18 Feb 2011 18:36 (#2)
Operator : ECL
Sample : WG357035-02 TOX ICAL 1000 PPB
Misc : 1,1 STD43915
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:45:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:00 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 18:36 (#1); 18 Feb 2011 19:04 (#2)
Operator : ECL
Sample : WG357035-03 TOX ICAL 500 PPB
Misc : 1,1 STD43915
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:44:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:44:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.88	644.6E6	548.6E6	535.929	542.269
2)	L1 Toxaphene-2	15.84	15.94	966.4E6	1692.2E6	543.633	544.099
3)	L1 Toxaphene-3	16.80	16.73	1672.1E6	513.2E6	522.828	549.395
4)	L1 Toxaphene-4	17.04	17.07	768.9E6	1154.0E6	530.792	535.204
5)	L1 Toxaphene-5	17.50	17.58	712.5E6	445.6E6	518.131	545.528
	Sum Toxaphene-1			4764.5E6	4353.5E6	2651.313	2716.495
Average	Toxaphene-1					530.263	543.299

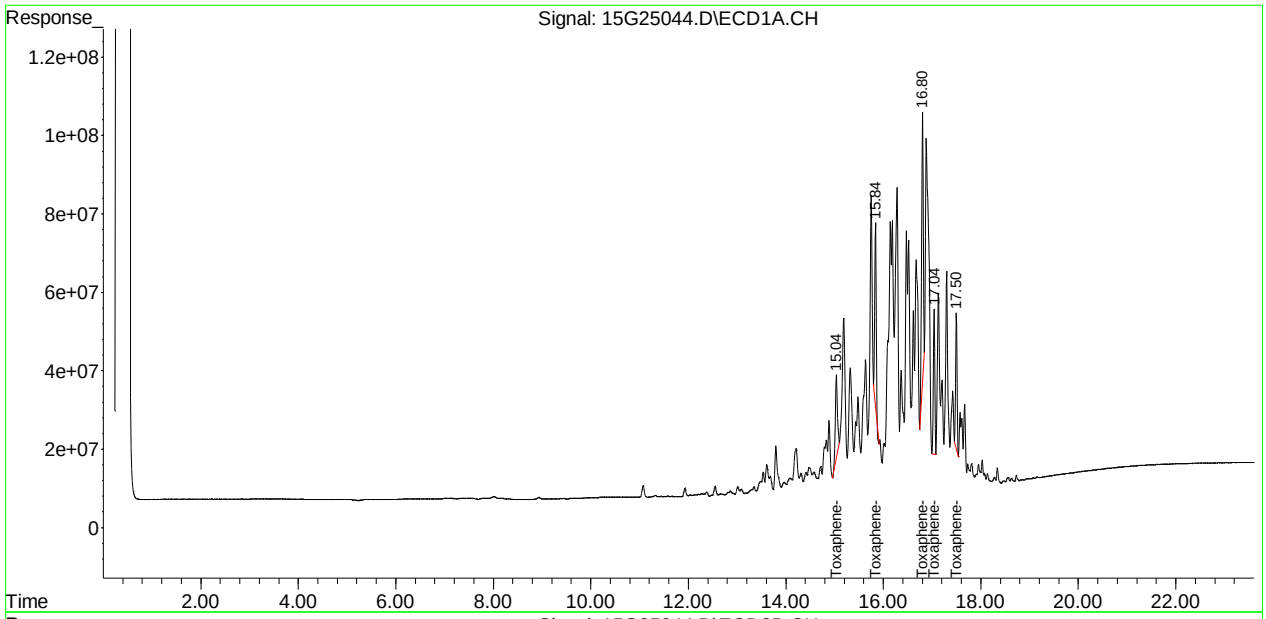
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

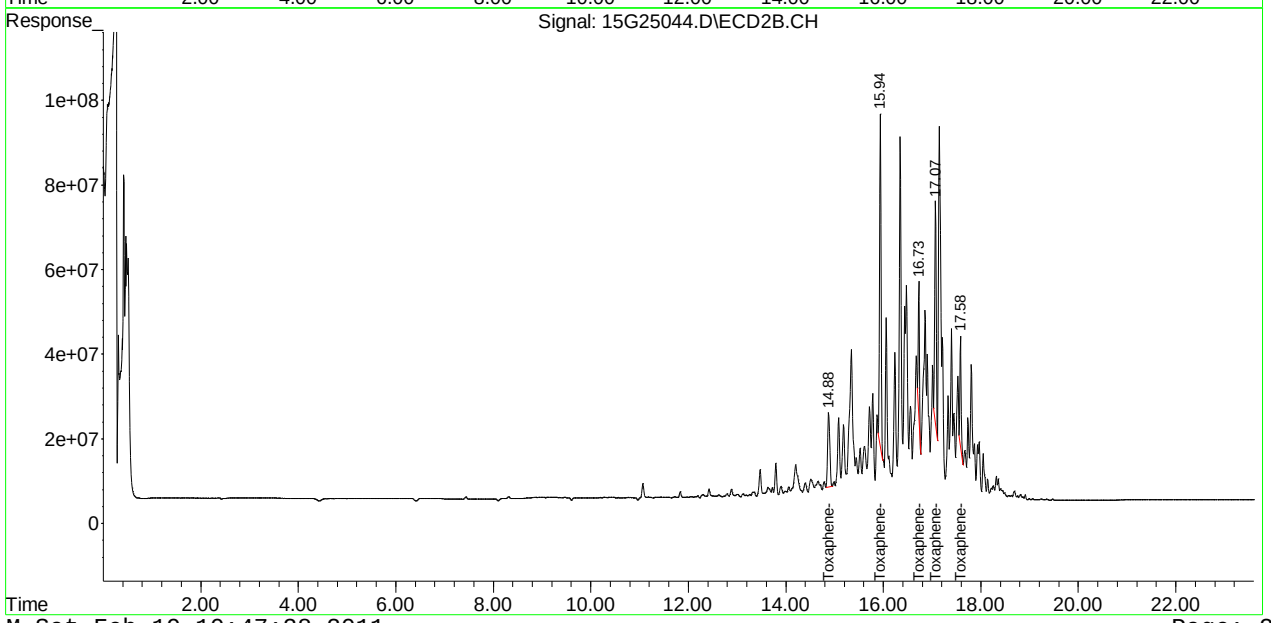
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 18:36 (#1); 18 Feb 2011 19:04 (#2)
Operator : ECL
Sample : WG357035-03 TOX ICAL 500 PPB
Misc : 1,1 STD43915
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:44:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:44:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 19:04 (#1); 18 Feb 2011 19:33 (#2)
Operator : ECL
Sample : WG357035-04 TOX ICAL 200 PPB
Misc : 1,1 STD43915
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:44:45 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:44:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.04	14.88	247.4E6	223.3E6	205.679	220.698
2) L1 Toxaphene-2	15.84	15.94	368.1E6	662.2E6	207.063	212.916
3) L1 Toxaphene-3	16.81	16.73	661.7E6	198.7E6	206.910	212.730
4) L1 Toxaphene-4	17.04	17.07	289.0E6	467.9E6	199.533	216.991
5) L1 Toxaphene-5	17.50	17.58	263.3E6	171.5E6	191.485	209.964
Sum Toxaphene-1			1829.6E6	1723.5E6	1010.669	1073.300
Average Toxaphene-1					202.134	214.660

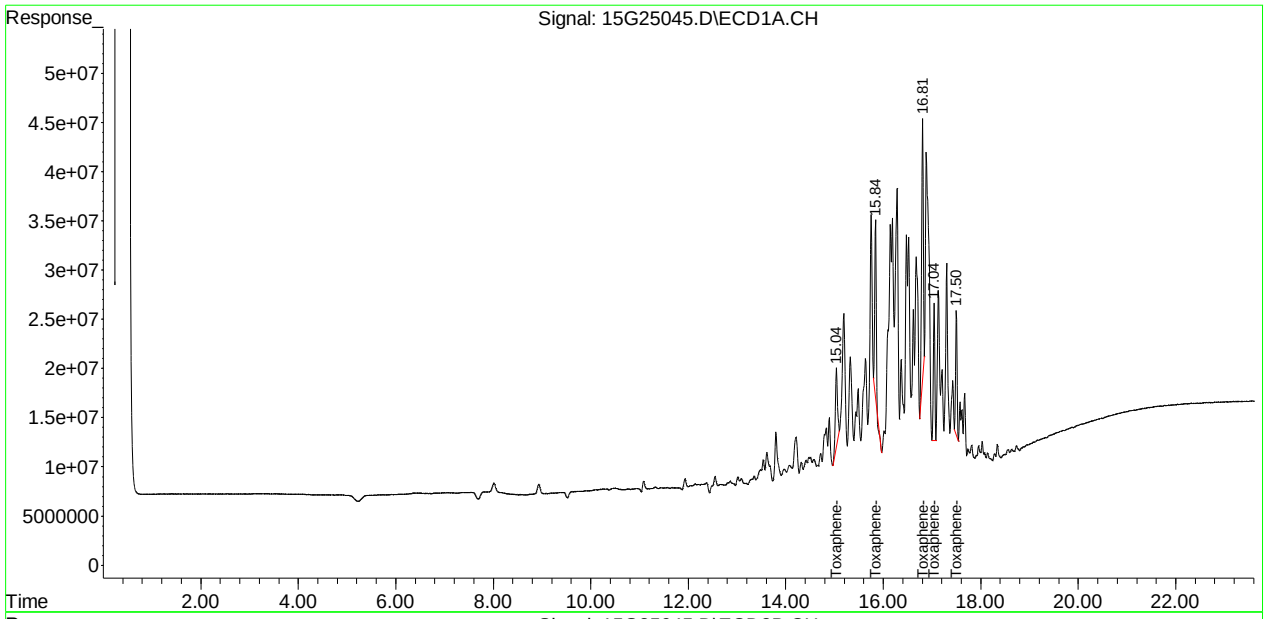
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

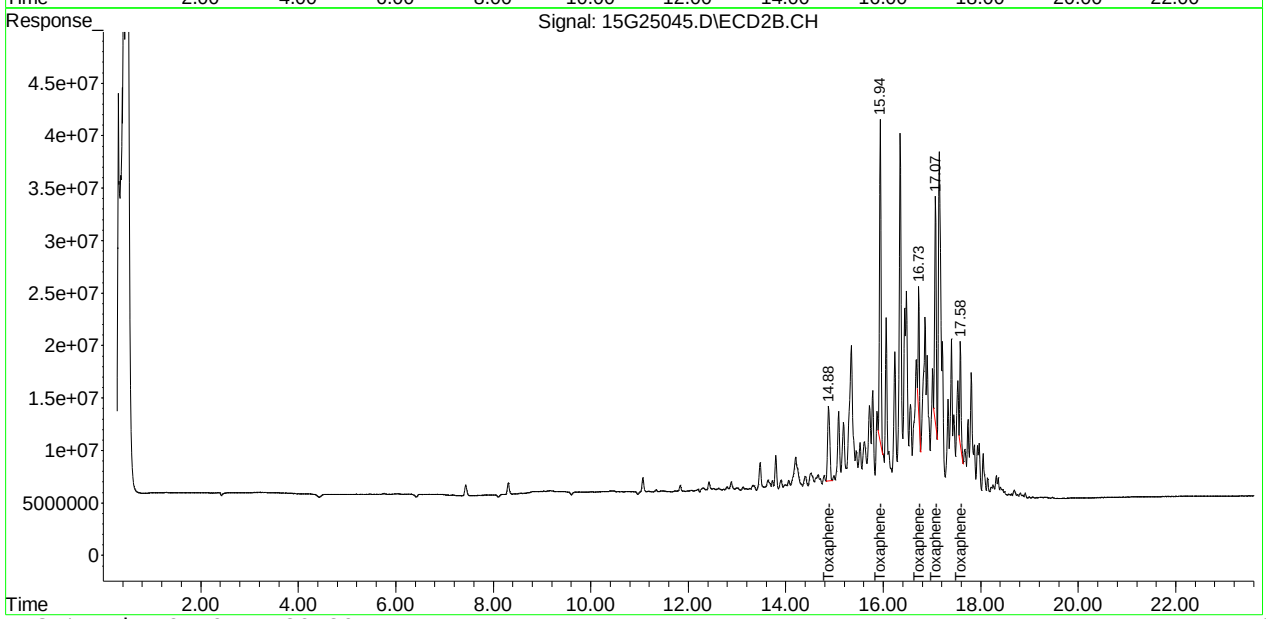
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 19:04 (#1); 18 Feb 2011 19:33 (#2)
Operator : ECL
Sample : WG357035-04 TOX ICAL 200 PPB
Misc : 1,1 STD43915
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:44:45 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:44:36 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 19:33 (#1); 18 Feb 2011 20:01 (#2)
Operator : ECL
Sample : WG357035-05 TOX ICAL 100 PPB
Misc : 1,1 STD43915
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:43:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:43:46 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.04	14.87	126.1E6	117.3E6	111.370	127.008
2) L1 Toxaphene-2	15.84	15.94	185.6E6	338.7E6	108.561	117.258
3) L1 Toxaphene-3	16.81	16.73	338.0E6	100.3E6	110.717	116.695
4) L1 Toxaphene-4	17.04	17.07	145.6E6	233.9E6	103.619	117.243
5) L1 Toxaphene-5	17.50	17.58	131.4E6	88236450	96.164	117.069
Sum Toxaphene-1			926.8E6	878.5E6	530.431	595.273
Average Toxaphene-1					106.086	119.055

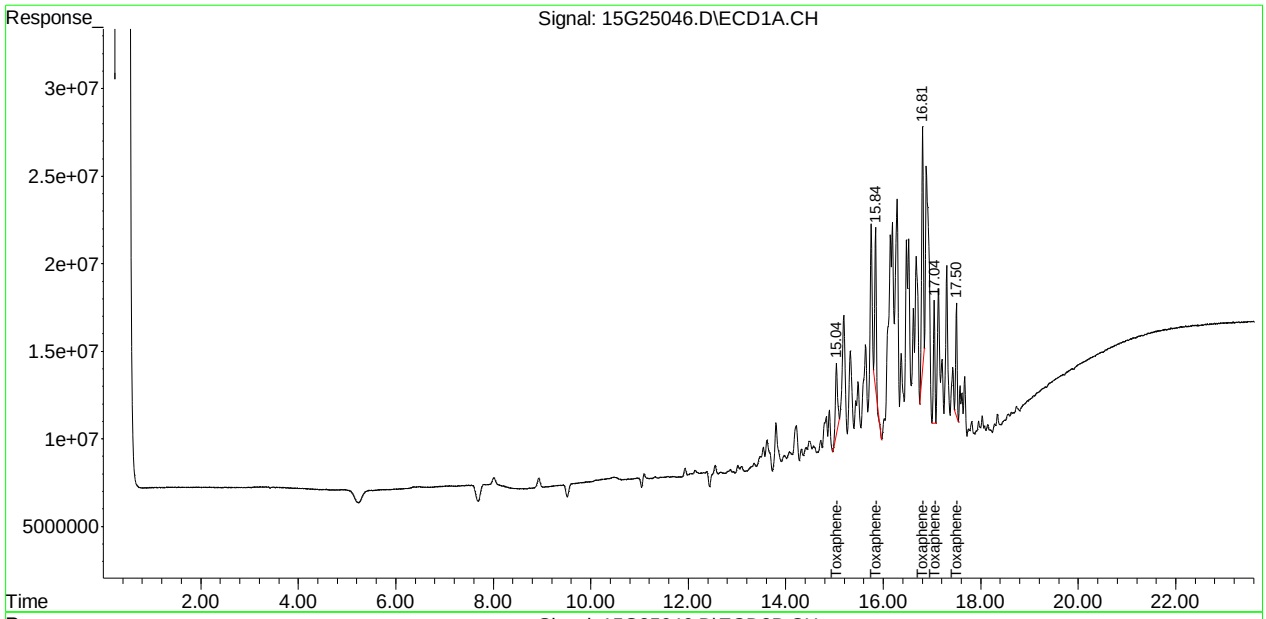
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

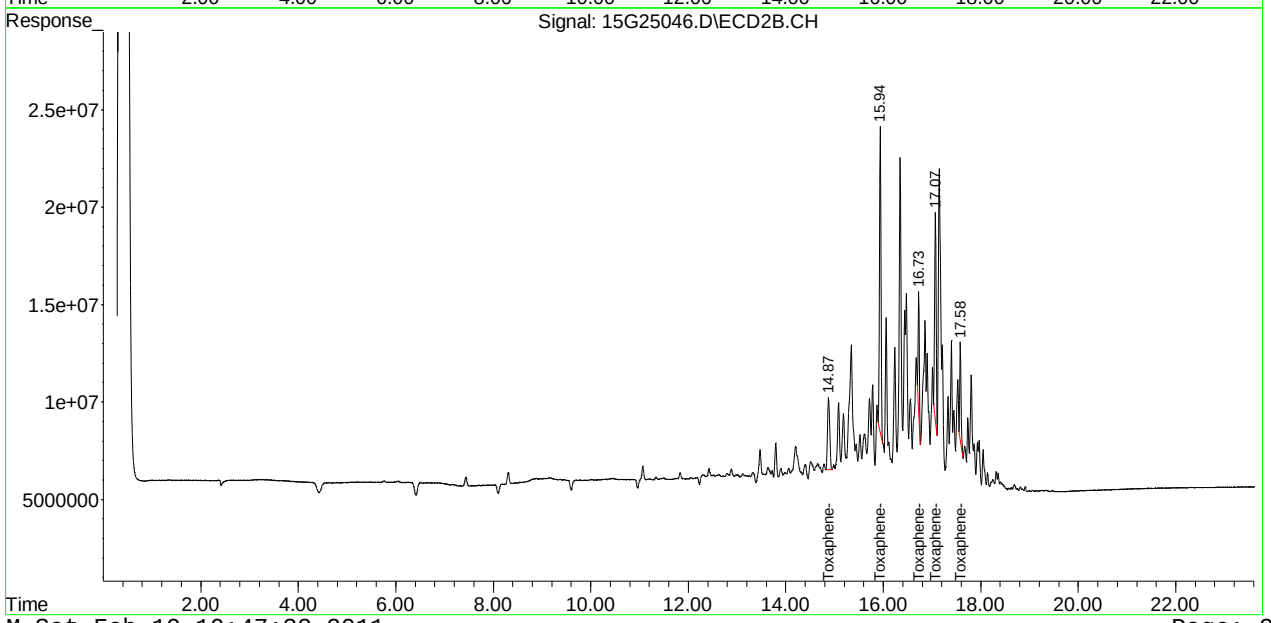
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 19:33 (#1); 18 Feb 2011 20:01 (#2)
Operator : ECL
Sample : WG357035-05 TOX ICAL 100 PPB
Misc : 1,1 STD43915
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:43:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:43:46 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:01 (#1); 18 Feb 2011 20:29 (#2)
Operator : ECL
Sample : WG357035-05 TOX ALT 500 PPB
Misc : 1,1 STD43915
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:46:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 Toxaphene-1	15.04	14.88	514.6E6	525.3E6	403.612	480.488
2) L1 Toxaphene-2	15.84	15.94	684.7E6	1545.3E6	363.251	466.064 #
3) L1 Toxaphene-3	16.80	16.73	1568.8E6	200.5E6	464.328	199.101 #
4) L1 Toxaphene-4	17.04	17.07	651.8E6	1045.3E6	429.111	454.596
5) L1 Toxaphene-5	17.50	17.58	666.3E6	505.8E6	474.368	575.489
Sum Toxaphene-1			4086.3E6	3822.3E6	2134.669	2175.739
Average Toxaphene-1					426.934	435.148

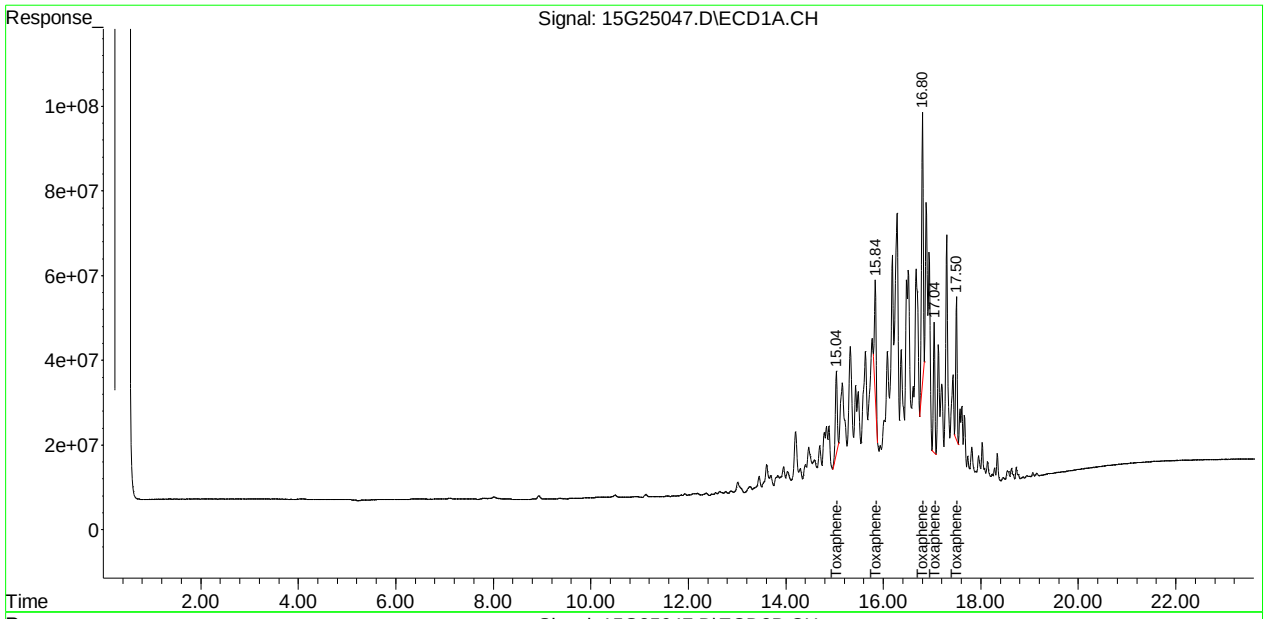
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

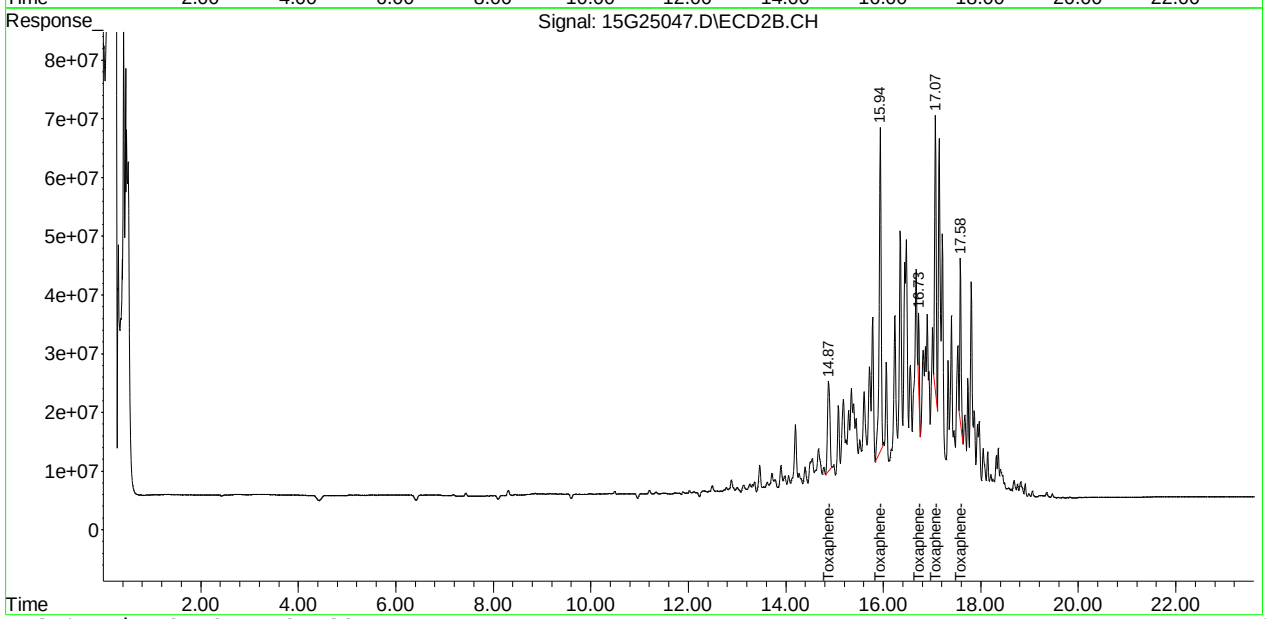
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:01 (#1); 18 Feb 2011 20:29 (#2)
Operator : ECL
Sample : WG357035-05 TOX ALT 500 PPB
Misc : 1,1 STD43915
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 10:46:38 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:29 (#1); 18 Feb 2011 20:58 (#2)
Operator : ECL
Sample : WG357037-01 PEST ICAL 200 PPB
Misc : 1,1 STD43387
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:04 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.13	25842.3E6	18174.4E6	199.017	188.848
	Spiked Amount 20.000	Range 30 - 132		Recovery =	995.08%#	944.24%#	
22) S	Decachlorobiphen	18.55	18.86	16424.3E6	11680.5E6	184.689	182.412
	Spiked Amount 20.000	Range 36 - 144		Recovery =	923.44%#	912.06%#	
	Target Compounds						
2)	alpha-BHC	10.49	10.49	41293.4E6	28102.0E6	214.410	200.897
3)	gamma-BHC	11.16	11.23	37068.0E6	27238.1E6	207.325	201.419
4)	beta-BHC	11.35	11.41	15528.4E6	11464.1E6	197.505	192.852
5)	Heptachlor	12.11	12.08	30095.5E6	21822.7E6	174.691	170.404
6)	delta-BHC	11.70	11.98	38127.7E6	28050.2E6	212.396	203.813
7)	Aldrin	12.67	12.69	28746.5E6	22310.7E6	185.678	179.082
8)	Heptachlor Epoxi	13.78	13.74	26954.1E6	18308.4E6	173.221	176.810
9)	gamma-Chlordane	14.00	14.08	31406.0E6	22454.0E6	194.249	191.316
10)	alpha-Chlordane	14.23	14.34	28277.5E6	21285.7E6	186.763	186.909
11)	Endosulfan I	14.46	14.43	23295.4E6	16013.9E6	169.112	170.731
12)	4,4'-DDE	14.39	14.65	28109.8E6	20562.0E6	197.210	190.672
13)	Dieldrin	14.88	14.91	23760.0E6	20220.4E6	177.001	182.178
14)	Endrin	15.27	15.43	24619.1E6	16658.6E6	183.889	179.867
15)	4,4'-DDD	15.40	15.64	22488.4E6	16633.4E6	192.952	189.758
16)	Endosulfan II	15.65	15.80	21397.2E6	16605.6E6	173.742	175.817
17)	4,4'-DDT	15.87	16.15	22980.1E6	17180.4E6	195.378	194.755
18)	Endrin Aldehyde	16.31	16.33	16964.3E6	11821.2E6	172.633	169.769
19)	Endosulfan Sulfa	16.94	16.74	19354.8E6	14840.6E6	181.554	177.963
20)	Methoxychlor	16.62	17.13	10297.6E6	7537.6E6	180.379	178.256
21)	Endrin Ketone	17.32	17.45	21452.2E6	15847.1E6	182.181	183.547

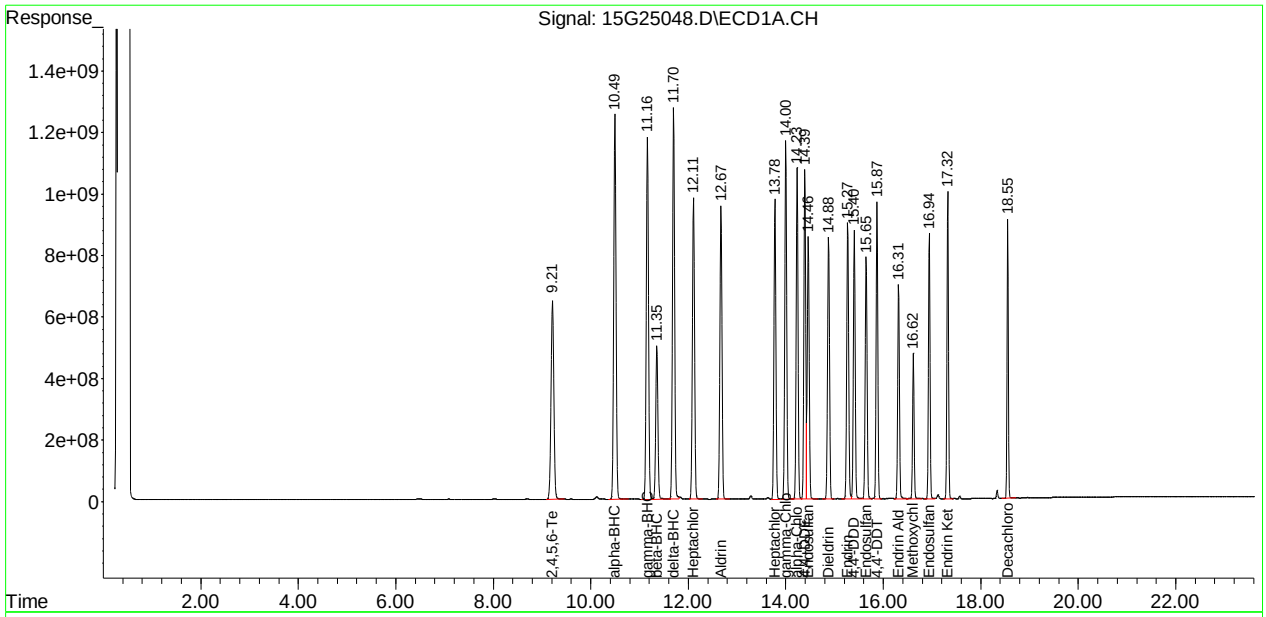
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:29 (#1); 18 Feb 2011 20:58 (#2)
Operator : ECL
Sample : WG357037-01 PEST ICAL 200 PPB
Misc : 1,1 STD43387
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:04 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:58 (#1); 18 Feb 2011 21:26 (#2)
Operator : ECL
Sample : WG357037-02 PEST ICAL 100 PPB
Misc : 1,1 STD43387
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

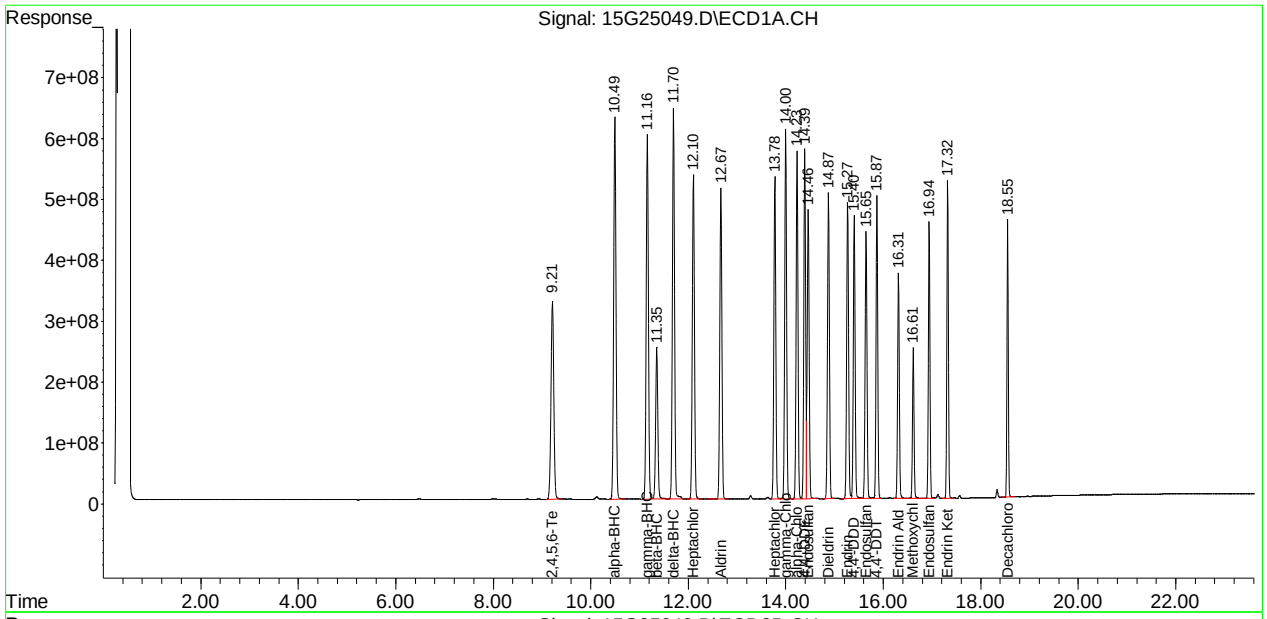
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.13	12962.8E6	9237.6E6	99.829	95.962
	Spiked Amount	20.000	Range 30 - 132		Recovery =	499.14%#	479.81%#
22) S	Decachlorobiphen	18.55	18.86	8253.9E6	5757.0E6	92.815	89.906
	Spiked Amount	20.000	Range 36 - 144		Recovery =	464.07%#	449.53%#
	Target Compounds						
2)	alpha-BHC	10.49	10.49	20560.1E6	14515.9E6	106.755	103.761
3)	gamma-BHC	11.16	11.23	18565.4E6	13721.5E6	103.838	101.444
4)	beta-BHC	11.35	11.41	7744.9E6	5729.1E6	98.506	96.316
5)	Heptachlor	12.10	12.08	16095.6E6	11642.6E6	93.428	90.912
6)	delta-BHC	11.70	11.98	19263.8E6	14043.5E6	107.311	102.040
7)	Aldrin	12.67	12.69	15147.2E6	11889.7E6	97.838	95.436
8)	Heptachlor Epoxi	13.77	13.74	14426.3E6	10023.4E6	92.711	96.799
9)	gamma-Chlordane	14.00	14.08	16066.4E6	11440.8E6	99.372	97.479
10)	alpha-Chlordane	14.23	14.34	15027.1E6	10885.4E6	99.249	95.584
11)	Endosulfan I	14.46	14.43	12956.4E6	8583.8E6	94.056	91.515
12)	4,4'-DDE	14.39	14.65	14678.7E6	10699.6E6	102.982	99.218
13)	Dieldrin	14.88	14.91	13517.2E6	10627.0E6	100.696	95.745
14)	Endrin	15.27	15.43	13034.9E6	8769.3E6	97.363	94.684
15)	4,4'-DDD	15.40	15.64	11813.7E6	8616.0E6	101.363	98.293
16)	Endosulfan II	15.65	15.80	11649.9E6	8679.6E6	94.595	91.898
17)	4,4'-DDT	15.87	16.15	11773.3E6	8772.0E6	100.098	99.439
18)	Endrin Aldehyde	16.31	16.33	8884.3E6	6199.2E6	90.409	89.030
19)	Endosulfan Sulfa	16.94	16.74	10032.7E6	7643.3E6	94.110	91.655
20)	Methoxychlor	16.61	17.13	5433.9E6	3826.3E6	95.183	90.489
21)	Endrin Ketone	17.32	17.45	11157.7E6	8146.8E6	94.756	94.359

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 20:58 (#1); 18 Feb 2011 21:26 (#2)
Operator : ECL
Sample : WG357037-02 PEST ICAL 100 PPB
Misc : 1,1 STD43387
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:27 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 21:26 (#1); 18 Feb 2011 21:54 (#2)
Operator : ECL
Sample : WG357037-03 PEST ICAL 20 PPB
Misc : 1,1 STD43387
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:42 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

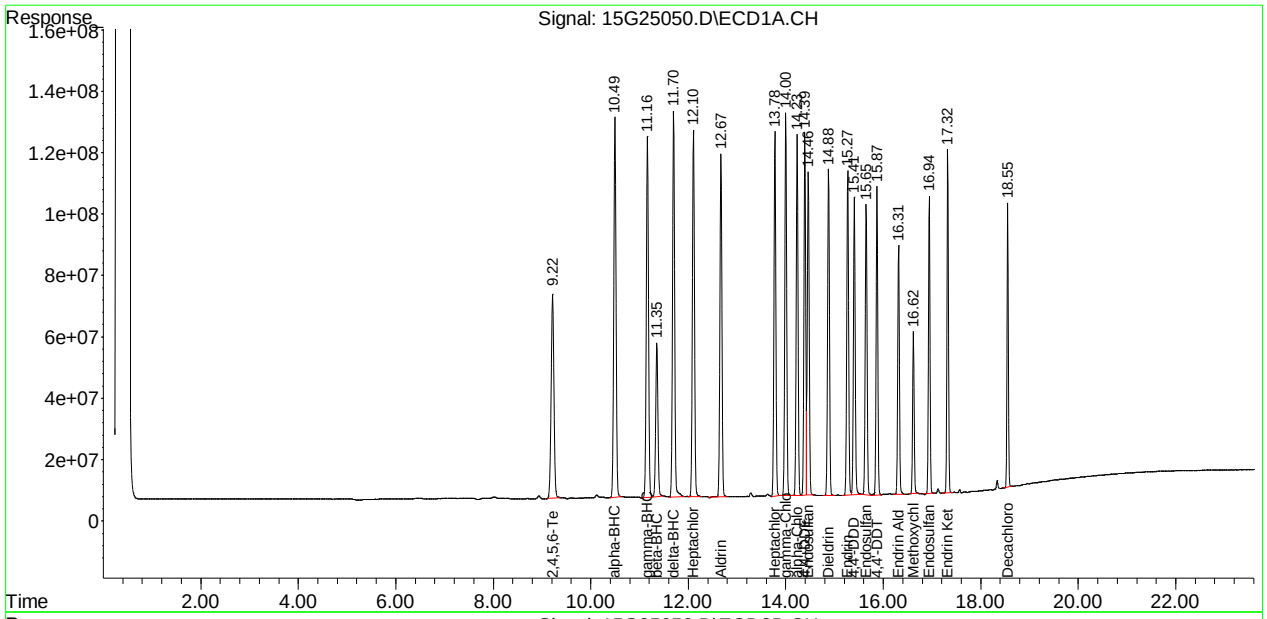
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	2622.8E6	1922.2E6	20.199	19.962
	Spiked Amount	20.000	Range 30 - 132		Recovery =	101.00%	99.81%
22) S	Decachlorobiphen	18.55	18.87	1710.1E6	1221.9E6	19.230	19.083
	Spiked Amount	20.000	Range 36 - 144		Recovery =	96.15%	95.41%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	3969.4E6	2914.1E6	20.610	20.822
3)	gamma-BHC	11.16	11.23	3646.0E6	2759.8E6	20.393	20.403
4)	beta-BHC	11.35	11.41	1568.1E6	1184.0E6	19.944	19.897
5)	Heptachlor	12.11	12.08	3536.4E6	2626.6E6	20.527	20.510
6)	delta-BHC	11.70	11.98	3744.8E6	2824.3E6	20.861	20.521
7)	Aldrin	12.67	12.69	3208.9E6	2599.6E6	20.727	20.866
8)	Heptachlor Epoxi	13.78	13.74	3171.2E6	2133.9E6	20.380	20.607
9)	gamma-Chlordane	14.00	14.08	3246.9E6	2369.3E6	20.082	20.187
10)	alpha-Chlordane	14.23	14.34	3045.0E6	2272.0E6	20.111	19.950
11)	Endosulfan I	14.46	14.43	2814.7E6	1926.3E6	20.433	20.537
12)	4,4'-DDE	14.39	14.65	2956.9E6	2243.2E6	20.745	20.802
13)	Dieldrin	14.88	14.91	2814.2E6	2291.9E6	20.964	20.649
14)	Endrin	15.27	15.44	2770.1E6	1919.4E6	20.691	20.724
15)	4,4'-DDD	15.41	15.64	2426.0E6	1823.7E6	20.815	20.805
16)	Endosulfan II	15.65	15.80	2483.2E6	1910.3E6	20.163	20.226
17)	4,4'-DDT	15.87	16.15	2359.0E6	1816.6E6	20.057	20.592
18)	Endrin Aldehyde	16.31	16.33	1934.4E6	1402.0E6	19.685	20.134
19)	Endosulfan Sulfa	16.94	16.74	2112.6E6	1665.0E6	19.816	19.966
20)	Methoxychlor	16.62	17.13	1151.3E6	837.3E6	20.167	19.801
21)	Endrin Ketone	17.32	17.45	2347.8E6	1739.9E6	19.939	20.152

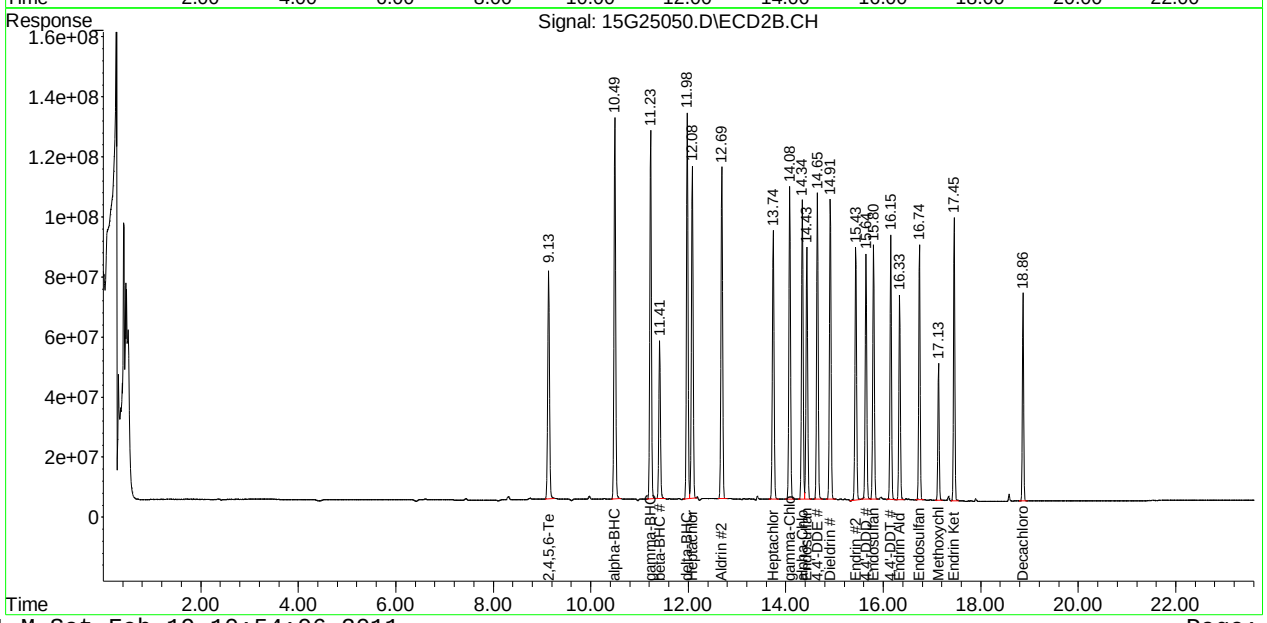
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 21:26 (#1); 18 Feb 2011 21:54 (#2)
Operator : ECL
Sample : WG357037-03 PEST ICAL 20 PPB
Misc : 1,1 STD43387
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:42 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 21:54 (#1); 18 Feb 2011 22:23 (#2)
Operator : ECL
Sample : WG357037-04 PEST ICAL 10 PPB
Misc : 1,1 STD43387
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:54 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

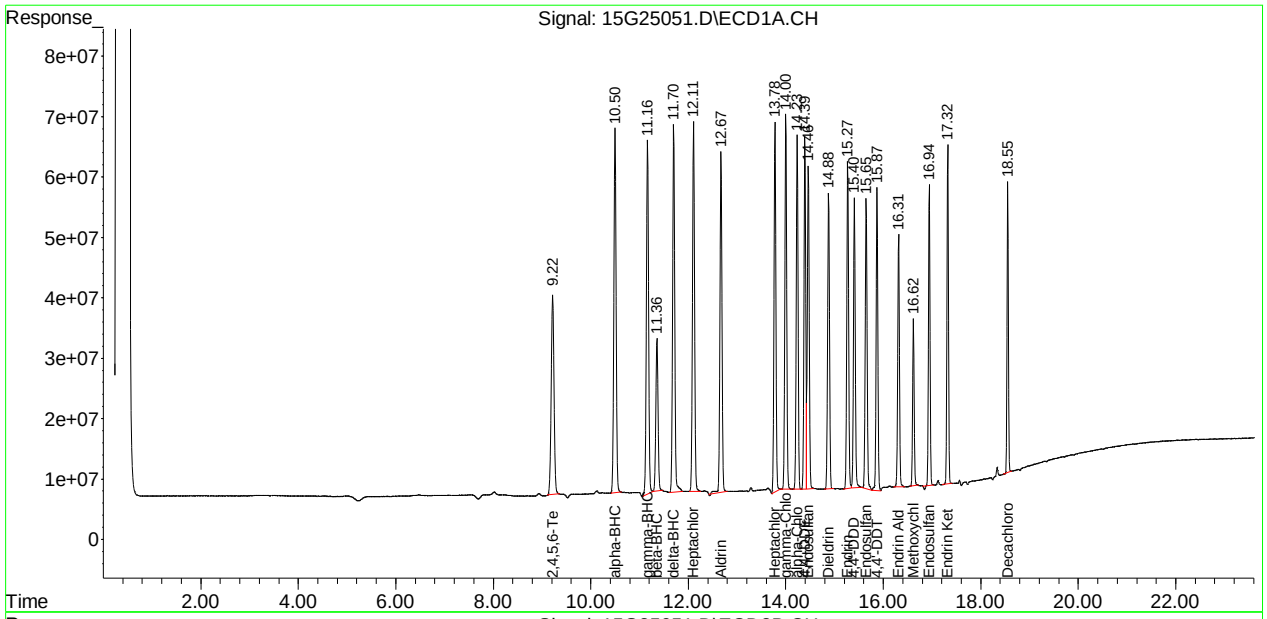
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	1319.5E6	987.2E6	10.162	10.246
	Spiked Amount	20.000	Range 30 - 132		Recovery =	50.81%	51.23%
22) S	Decachlorobiphen	18.55	18.87	895.3E6	643.7E6	10.067	10.053
	Spiked Amount	20.000	Range 36 - 144		Recovery =	50.33%	50.27%
	Target Compounds						
2)	alpha-BHC	10.50	10.49	1928.6E6	1459.4E6	10.014	10.421
3)	gamma-BHC	11.16	11.23	1815.4E6	1388.3E6	10.154	10.262
4)	beta-BHC	11.36	11.41	791.0E6	610.7E6	10.061	10.256
5)	Heptachlor	12.11	12.08	1798.5E6	1362.1E6	10.439	10.636
6)	delta-BHC	11.70	11.98	1823.5E6	1410.2E6	10.158	10.246
7)	Aldrin	12.67	12.69	1629.5E6	1326.1E6	10.525	10.645
8)	Heptachlor Epoxi	13.78	13.74	1636.4E6	1098.1E6	10.516	10.605
9)	gamma-Chlordane	14.00	14.08	1627.2E6	1204.6E6	10.065	10.264
10)	alpha-Chlordane	14.23	14.34	1517.7E6	1164.1E6	10.024	10.222
11)	Endosulfan I	14.46	14.43	1433.4E6	970.7E6	10.406	10.349
12)	4,4'-DDE	14.39	14.65	1453.4E6	1124.1E6	10.197	10.424
13)	Dieldrin	14.88	14.91	1312.7E6	1164.6E6	9.779	10.492
14)	Endrin	15.27	15.44	1390.9E6	960.9E6	10.389	10.375
15)	4,4'-DDD	15.41	15.65	1200.0E6	909.0E6	10.296	10.370
16)	Endosulfan II	15.65	15.80	1273.9E6	985.5E6	10.344	10.434
17)	4,4'-DDT	15.87	16.15	1204.5E6	912.4E6	10.241	10.343
18)	Endrin Aldehyde	16.31	16.33	1011.1E6	721.3E6	10.289	10.359
19)	Endosulfan Sulfa	16.94	16.74	1077.1E6	860.5E6	10.103	10.319
20)	Methoxychlor	16.62	17.13	594.9E6	437.3E6	10.421	10.343
21)	Endrin Ketone	17.32	17.45	1200.6E6	891.7E6	10.196	10.328

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 21:54 (#1); 18 Feb 2011 22:23 (#2)
Operator : ECL
Sample : WG357037-04 PEST ICAL 10 PPB
Misc : 1,1 STD43387
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:51:56 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:51:54 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 22:23 (#1); 18 Feb 2011 22:51 (#2)
Operator : ECL
Sample : WG357037-05 PEST ICAL 4 PPB
Misc : 1,1 STD43387
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:52:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

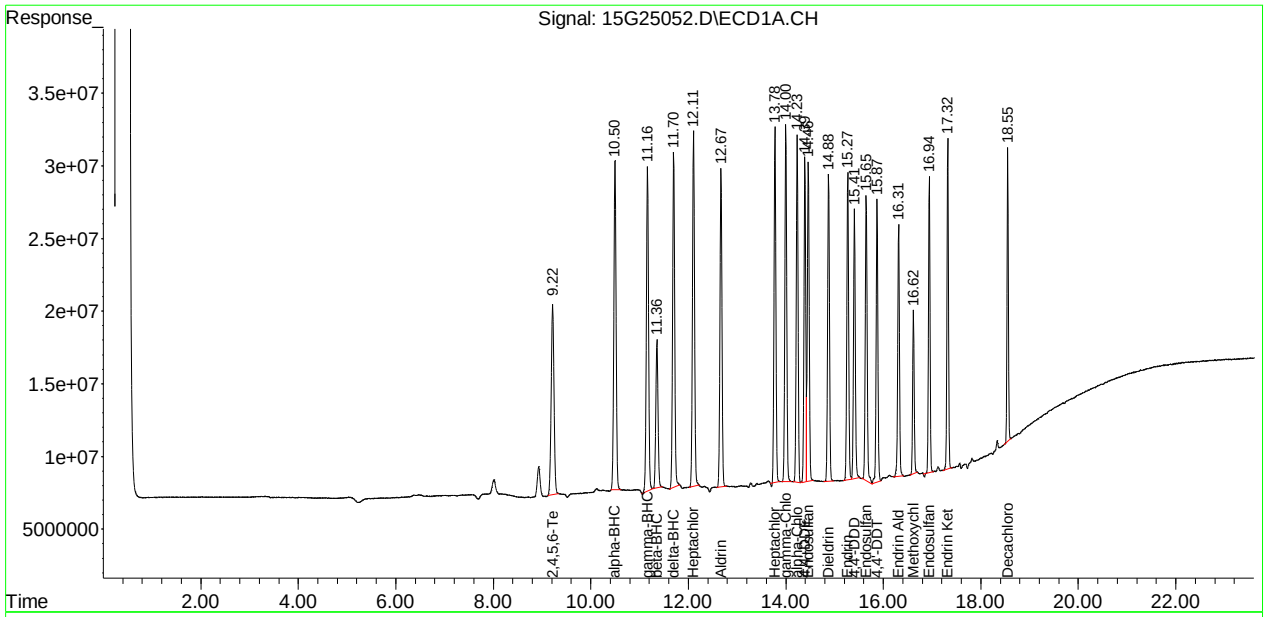
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	519.7E6	393.8E6	4.002	4.081
	Spiked Amount	20.000	Range 30 - 132	Recovery =		20.01%#	20.41%#
22) S	Decachlorobiphen	18.55	18.86	377.3E6	271.1E6	4.243	4.233
	Spiked Amount	20.000	Range 36 - 144	Recovery =		21.22%#	21.16%#
	Target Compounds						
2)	alpha-BHC	10.50	10.49	724.3E6	542.9E6	3.761	3.873
3)	gamma-BHC	11.16	11.23	693.6E6	527.6E6	3.880	3.899
4)	beta-BHC	11.36	11.41	318.9E6	242.7E6	4.056	4.076
5)	Heptachlor	12.11	12.08	717.8E6	538.9E6	4.166	4.208
6)	delta-BHC	11.70	11.98	673.9E6	533.3E6	3.754	3.875
7)	Aldrin	12.67	12.69	622.3E6	509.2E6	4.020	4.087
8)	Heptachlor Epoxi	13.78	13.74	646.2E6	415.1E6	4.153	4.008
9)	gamma-Chlordane	14.00	14.08	648.0E6	473.0E6	4.008	4.030
10)	alpha-Chlordane	14.23	14.34	614.9E6	464.4E6	4.061	4.078
11)	Endosulfan I	14.46	14.43	583.1E6	394.3E6	4.233	4.203
12)	4,4'-DDE	14.39	14.65	561.4E6	429.0E6	3.938	3.978
13)	Dieldrin	14.88	14.91	558.7E6	453.3E6	4.162	4.084
14)	Endrin	15.27	15.43	548.4E6	379.1E6	4.096	4.094
15)	4,4'-DDD	15.41	15.64	464.8E6	351.9E6	3.988	4.014
16)	Endosulfan II	15.65	15.80	530.7E6	395.4E6	4.309	4.187
17)	4,4'-DDT	15.87	16.15	476.2E6	348.1E6	4.049	3.946
18)	Endrin Aldehyde	16.31	16.33	419.9E6	300.7E6	4.273	4.318
19)	Endosulfan Sulfa	16.94	16.74	443.5E6	348.1E6	4.160	4.174
20)	Methoxychlor	16.62	17.13	241.7E6	179.3E6	4.234	4.241
21)	Endrin Ketone	17.32	17.45	489.3E6	355.3E6	4.155	4.115

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 22:23 (#1); 18 Feb 2011 22:51 (#2)
Operator : ECL
Sample : WG357037-05 PEST ICAL 4 PPB
Misc : 1,1 STD43387
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:52:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 22:51 (#1); 18 Feb 2011 23:19 (#2)
Operator : ECL
Sample : WG357037-06 PEST ICAL 1 PPB
Misc : 1,1 STD43387
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:50:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:50:48 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

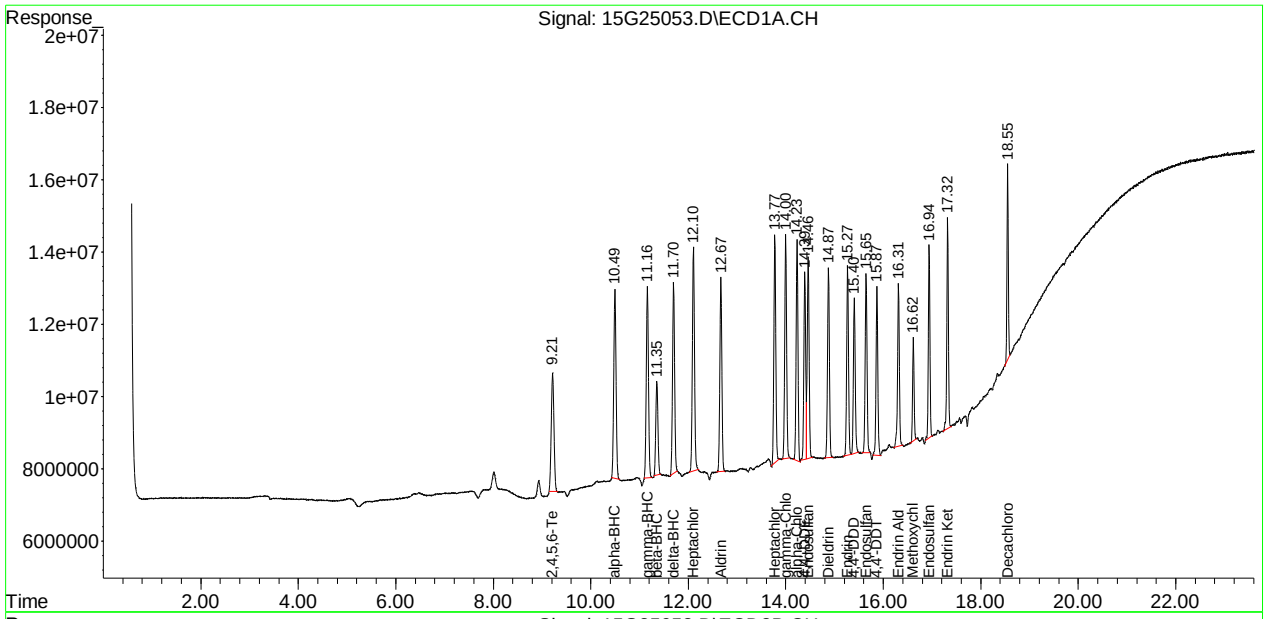
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	127.3E6	102.6E6	0.980	1.066
	Spiked Amount	20.000	Range 30 - 132		Recovery =	4.90%#	5.33%#
22) S	Decachlorobiphen	18.55	18.86	99553837	74990478	1.119	1.171
	Spiked Amount	20.000	Range 36 - 144		Recovery =	5.59%#	5.86%#
	Target Compounds						
2)	alpha-BHC	10.50	10.49	171.1E6	127.9E6	0.888	0.914
3)	gamma-BHC	11.16	11.23	164.5E6	129.7E6	0.920	0.959
4)	beta-BHC	11.35	11.41	79420315	61739604	1.010	1.039
5)	Heptachlor	12.11	12.08	186.1E6	140.6E6	1.080	1.098
6)	delta-BHC	11.70	11.98	155.7E6	129.6E6	0.867	0.941
7)	Aldrin	12.67	12.69	154.7E6	127.2E6	0.999	1.021
8)	Heptachlor Epoxi	13.77	13.74	170.9E6	109.2E6	1.098	1.055
9)	gamma-Chlordane	14.00	14.08	165.3E6	120.3E6	1.022	1.025
10)	alpha-Chlordane	14.23	14.34	159.0E6	121.9E6	1.050	1.071
11)	Endosulfan I	14.46	14.43	150.6E6	104.9E6	1.093	1.119
12)	4,4'-DDE	14.39	14.65	134.4E6	105.4E6	0.943	0.977
13)	Dieldrin	14.88	14.91	139.8E6	114.2E6	1.042	1.029
14)	Endrin	15.27	15.43	135.2E6	97864204	1.010	1.057
15)	4,4'-DDD	15.40	15.64	111.2E6	86556940	0.954	0.987
16)	Endosulfan II	15.65	15.80	131.2E6	103.9E6	1.066	1.100
17)	4,4'-DDT	15.87	16.15	115.6E6	86574497	0.983	0.981
18)	Endrin Aldehyde	16.31	16.33	113.1E6	79281418	1.151	1.139
19)	Endosulfan Sulfa	16.94	16.74	118.3E6	93385128	1.110	1.120
20)	Methoxychlor	16.62	17.13	59214694	47325221	1.037	1.119
21)	Endrin Ketone	17.32	17.45	127.9E6	92347876	1.086	1.070

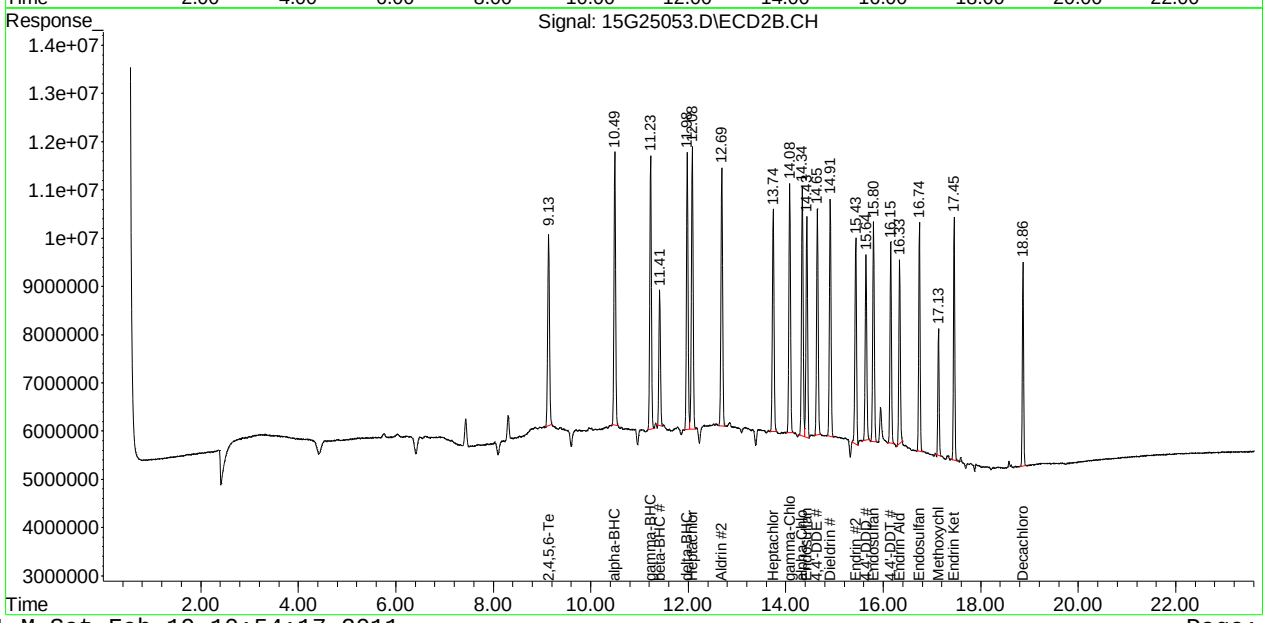
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 22:51 (#1); 18 Feb 2011 23:19 (#2)
Operator : ECL
Sample : WG357037-06 PEST ICAL 1 PPB
Misc : 1,1 STD43387
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:50:50 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:50:48 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25054.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 23:19 (#1); 18 Feb 2011 23:48 (#2)
Operator : ECL
Sample : WG357037-07 PEST ALT 20 PPB
Misc : 1,1 STD43387
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:52:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

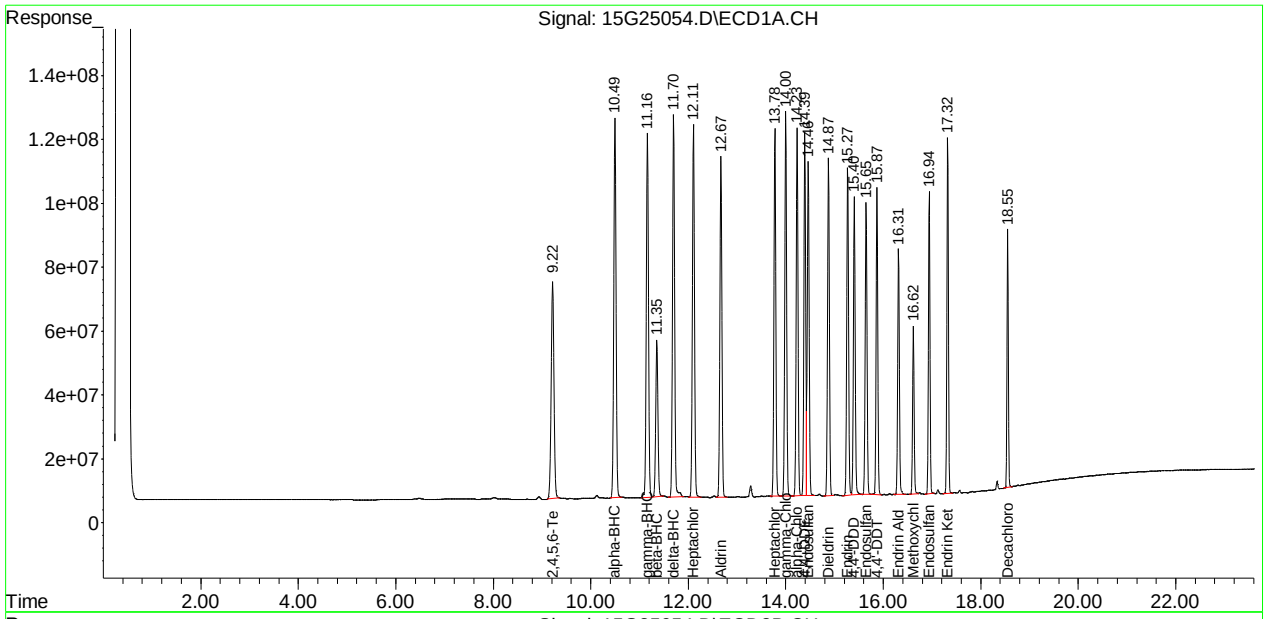
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.22	9.13	2689.9E6	1990.1E6	20.715	20.620
	Spiked Amount	20.000	Range 30 - 132		Recovery =	103.57%	103.10%
22) S	Decachlorobiphen	18.55	18.86	1499.6E6	1066.4E6	16.863	16.653
	Spiked Amount	20.000	Range 36 - 144		Recovery =	84.31%	83.26%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	3819.0E6	2880.9E6	19.830	20.555
3)	gamma-BHC	11.16	11.23	3524.1E6	2689.5E6	19.711	19.878
4)	beta-BHC	11.35	11.41	1529.6E6	1181.5E6	19.455	19.841
5)	Heptachlor	12.11	12.08	3419.6E6	2562.1E6	19.850	20.006
6)	delta-BHC	11.70	11.98	3594.7E6	2736.4E6	20.024	19.882
7)	Aldrin	12.67	12.69	3041.2E6	2488.2E6	19.644	19.972
8)	Heptachlor Epoxi	13.78	13.74	3025.4E6	2101.7E6	19.443	20.297
9)	gamma-Chlordane	14.00	14.08	3129.5E6	2306.8E6	19.356	19.655
10)	alpha-Chlordane	14.23	14.34	2961.9E6	2204.2E6	19.562	19.355
11)	Endosulfan I	14.46	14.43	2760.2E6	1941.4E6	20.038	20.698
12)	4,4'-DDE	14.39	14.65	2838.0E6	2174.5E6	19.911	20.164
13)	Dieldrin	14.88	14.91	2757.3E6	2174.2E6	20.541	19.589
14)	Endrin	15.27	15.43	2632.9E6	1884.7E6	19.666	20.350
15)	4,4'-DDD	15.40	15.64	2314.2E6	1746.5E6	19.856	19.925
16)	Endosulfan II	15.65	15.80	2372.3E6	1826.4E6	19.262	19.338
17)	4,4'-DDT	15.87	16.15	2241.6E6	1752.4E6	19.059	19.865
18)	Endrin Aldehyde	16.31	16.33	1837.4E6	1365.0E6	18.698	19.603
19)	Endosulfan Sulfa	16.94	16.74	2049.3E6	1614.4E6	19.223	19.359
20)	Methoxychlor	16.62	17.13	1134.1E6	827.2E6	19.866	19.562
21)	Endrin Ketone	17.32	17.45	2368.8E6	1757.8E6	20.117	20.360

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25054.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 23:19 (#1); 18 Feb 2011 23:48 (#2)
Operator : ECL
Sample : WG357037-07 PEST ALT 20 PPB
Misc : 1,1 STD43387
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:52:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25066.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 5:00 (#1); 19 Feb 2011 5:28 (#2)
Operator : ECL
Sample : WG357038-03 PEST CCV 20 PPB
Misc : 1,1 STD43387
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:01:24 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	2434.3E6	1824.2E6	18.747	18.901
	Spiked Amount	20.000	Range 30 - 132		Recovery =	93.73%	94.50%
22) S	Decachlorobiphen	18.55	18.86	1556.9E6	1035.9E6	17.507	16.177
	Spiked Amount	20.000	Range 36 - 144		Recovery =	87.54%	80.88%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	3646.0E6	2808.7E6	18.931	20.040
3)	gamma-BHC	11.16	11.23	3352.1E6	2612.7E6	18.749	19.311
4)	beta-BHC	11.35	11.41	1445.6E6	1132.8E6	18.387	19.024
5)	Heptachlor	12.10	12.08	3196.6E6	2420.1E6	18.555	18.897
6)	delta-BHC	11.69	11.98	3427.6E6	2674.8E6	19.094	19.435
7)	Aldrin	12.66	12.69	2913.4E6	2412.4E6	18.818	19.364
8)	Heptachlor Epoxi	13.77	13.74	2846.8E6	1890.8E6	18.295	18.261
9)	gamma-Chlordane	13.99	14.08	2922.9E6	2205.4E6	18.078	18.791
10)	alpha-Chlordane	14.23	14.34	2716.6E6	2106.5E6	17.942	18.497
11)	Endosulfan I	14.45	14.43	2584.3E6	1821.4E6	18.761	19.418
12)	4,4'-DDE	14.38	14.65	2671.2E6	2073.1E6	18.741	19.224
13)	Dieldrin	14.87	14.91	2584.6E6	2124.2E6	19.254	19.139
14)	Endrin	15.26	15.44	2472.6E6	1778.3E6	18.469	19.200
15)	4,4'-DDD	15.40	15.64	2202.8E6	1748.0E6	18.900	19.942
16)	Endosulfan II	15.64	15.80	2303.1E6	1771.5E6	18.701	18.756
17)	4,4'-DDT	15.86	16.15	2053.8E6	1505.0E6	17.461	17.061
18)	Endrin Aldehyde	16.31	16.33	1737.2E6	1298.0E6	17.678	18.641
19)	Endosulfan Sulfa	16.94	16.74	1888.7E6	1516.4E6	17.716	18.184
20)	Methoxychlor	16.61	17.13	1015.4E6	707.3E6	17.787	16.728
21)	Endrin Ketone	17.32	17.45	2116.3E6	1591.5E6	17.973	18.434

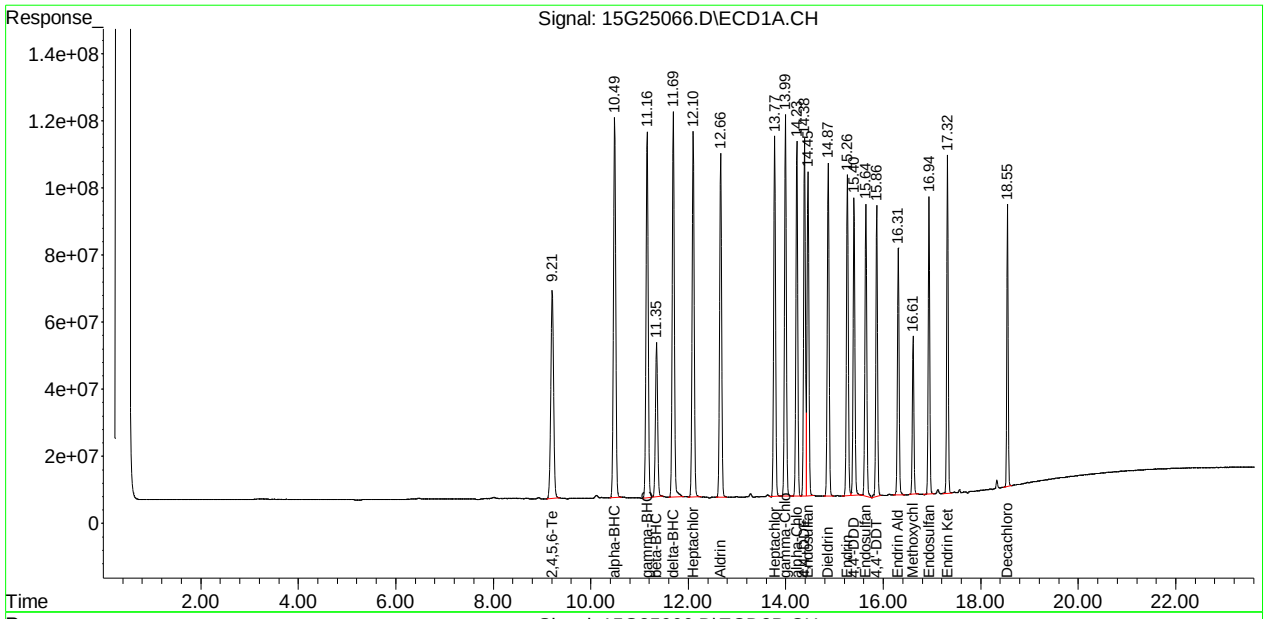
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25066.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 5:00 (#1); 19 Feb 2011 5:28 (#2)
Operator : ECL
Sample : WG357038-03 PEST CCV 20 PPB
Misc : 1,1 STD43387
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:01:24 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25067.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 5:28 (#1); 19 Feb 2011 5:56 (#2)
Operator : ECL
Sample : WG357036-01 TOX CCV 500 PPB
Misc : 1,1 STD43915
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 11:02:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.03	14.88	556.4E6	555.2E6	436.440	507.805
2)	L1 Toxaphene-2	15.83	15.94	851.1E6	1551.1E6	451.503	467.829
3)	L1 Toxaphene-3	16.80	16.73	1435.4E6	459.7E6	424.849	456.489
4)	L1 Toxaphene-4	17.04	17.07	644.2E6	1001.7E6	424.112	435.617
5)	L1 Toxaphene-5	17.49	17.58	576.3E6	384.4E6	410.237	437.383
	Sum Toxaphene-1			4063.4E6	3952.1E6	2147.140	2305.123
Average	Toxaphene-1					429.428	461.025

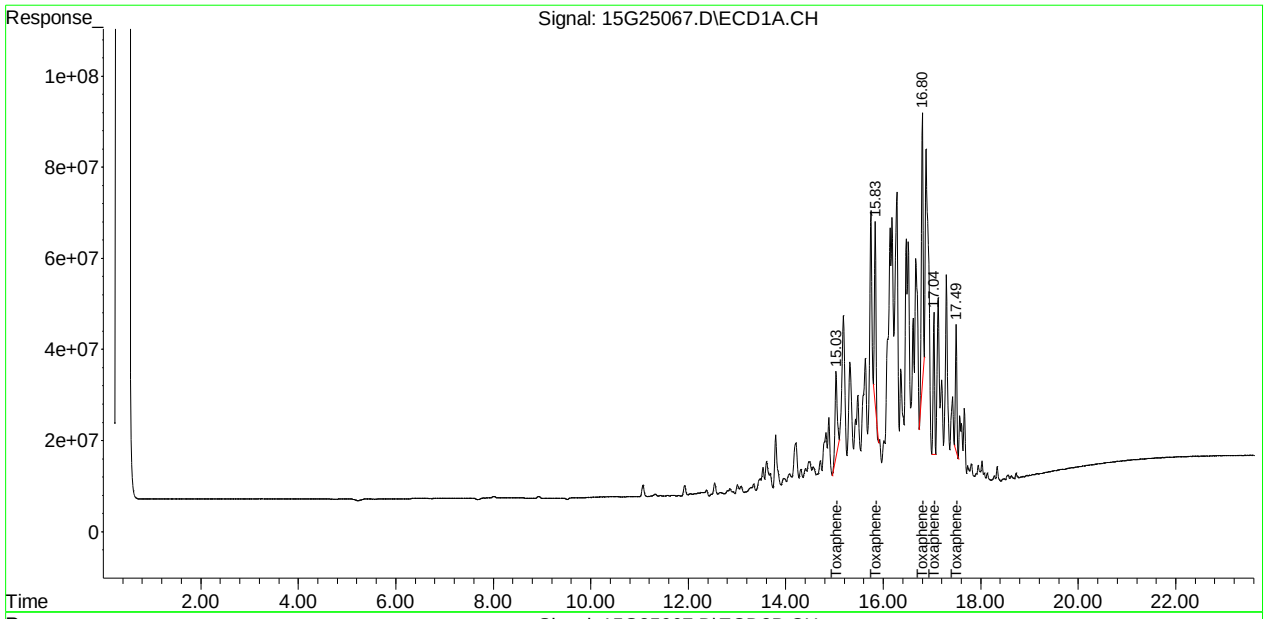
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

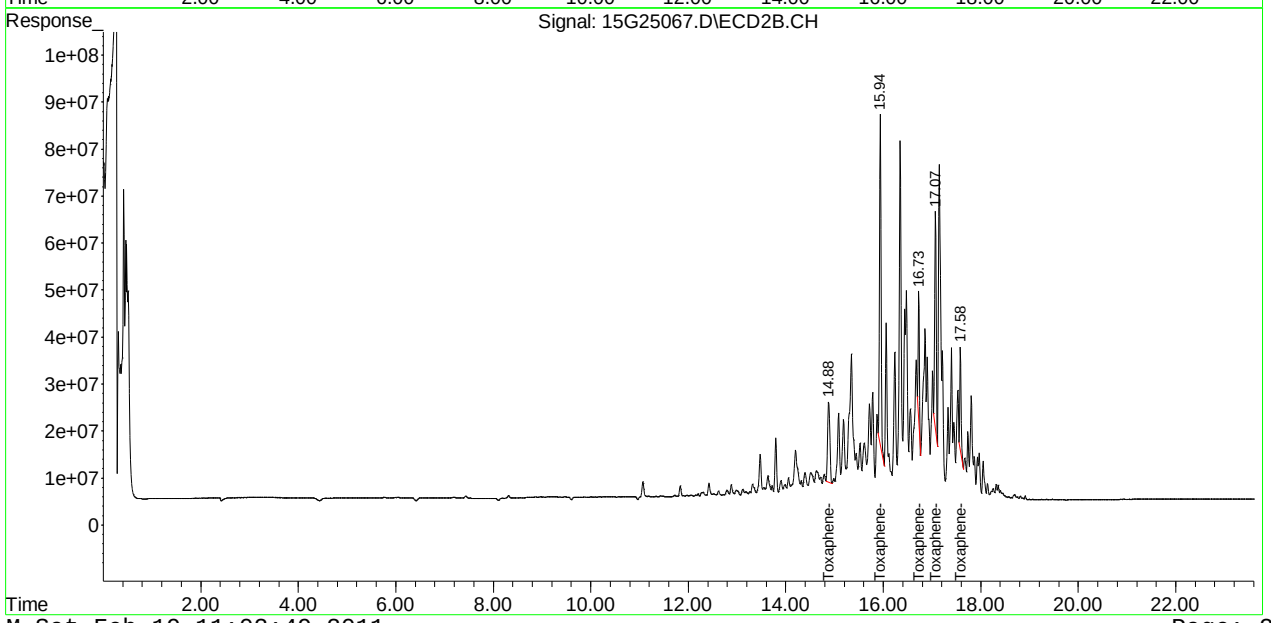
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25067.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 5:28 (#1); 19 Feb 2011 5:56 (#2)
Operator : ECL
Sample : WG357036-01 TOX CCV 500 PPB
Misc : 1,1 STD43915
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 11:02:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25080.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 12:00 (#1); 19 Feb 2011 12:28 (#2)
Operator : ECL
Sample : WG357044-02 PEST CCV 20 PPB
Misc : 1,1 STD43387
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 13:15:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

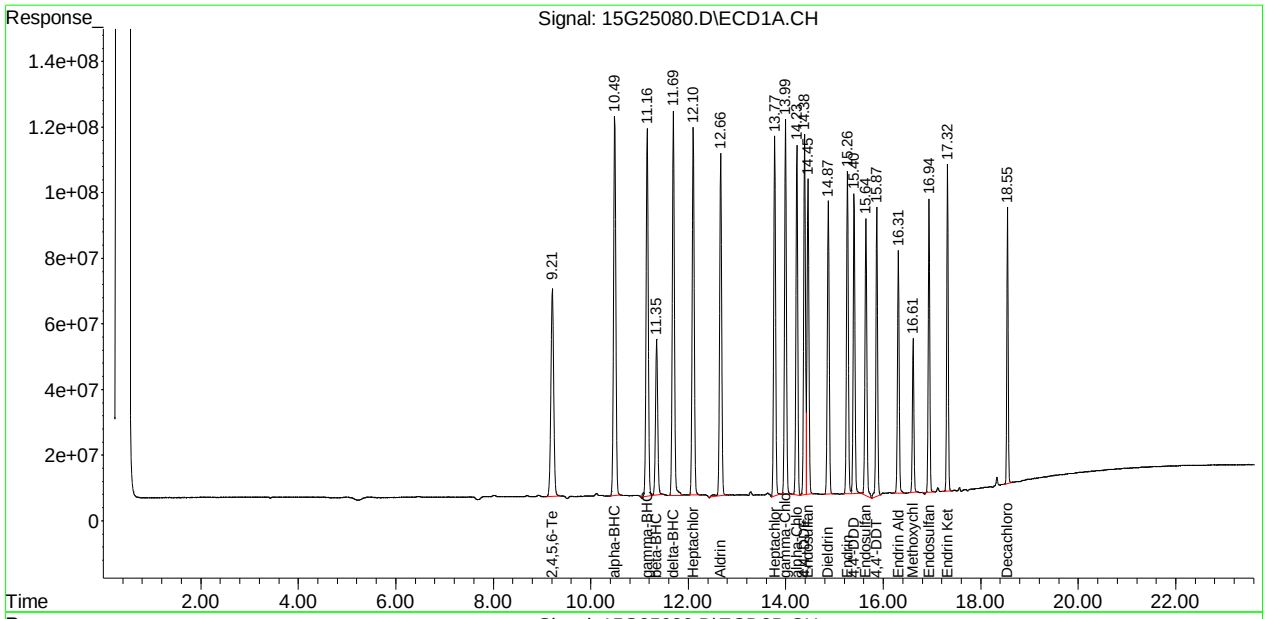
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.13	2485.2E6	1749.6E6	19.139	18.128
	Spiked Amount	20.000	Range 30 - 132		Recovery =	95.69%	90.64%
22) S	Decachlorobiphen	18.55	18.86	1553.6E6	1055.7E6	17.470	16.486
	Spiked Amount	20.000	Range 36 - 144		Recovery =	87.35%	82.43%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	3728.7E6	2658.4E6	19.361	18.967
3)	gamma-BHC	11.16	11.23	3424.3E6	2515.9E6	19.152	18.595
4)	beta-BHC	11.35	11.41	1479.8E6	1088.0E6	18.821	18.270
5)	Heptachlor	12.10	12.08	3285.1E6	2353.7E6	19.068	18.379
6)	delta-BHC	11.69	11.98	3472.8E6	2564.6E6	19.346	18.634
7)	Aldrin	12.66	12.69	3023.8E6	2326.0E6	19.531	18.670
8)	Heptachlor Epoxi	13.77	13.74	2929.9E6	1739.9E6	18.829	16.803
9)	gamma-Chlordane	13.99	14.08	2982.3E6	2113.7E6	18.446	18.010
10)	alpha-Chlordane	14.23	14.34	2680.9E6	2024.0E6	17.707	17.773
11)	Endosulfan I	14.45	14.43	2537.3E6	1697.9E6	18.420	18.102
12)	4,4'-DDE	14.38	14.65	2751.5E6	1989.4E6	19.304	18.448
13)	Dieldrin	14.87	14.91	2392.5E6	2042.8E6	17.823	18.405
14)	Endrin	15.26	15.43	2540.2E6	1674.3E6	18.974	18.077
15)	4,4'-DDD	15.40	15.64	2255.2E6	1646.9E6	19.350	18.788
16)	Endosulfan II	15.64	15.80	2281.8E6	1702.1E6	18.528	18.021
17)	4,4'-DDT	15.87	16.15	2102.9E6	1491.3E6	17.879	16.905
18)	Endrin Aldehyde	16.31	16.33	1764.5E6	1228.2E6	17.956	17.638
19)	Endosulfan Sulfa	16.94	16.74	1898.9E6	1457.8E6	17.813	17.482
20)	Methoxychlor	16.61	17.13	997.5E6	695.1E6	17.472	16.439
21)	Endrin Ketone	17.32	17.45	2117.9E6	1521.3E6	17.986	17.620

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25080.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 12:00 (#1); 19 Feb 2011 12:28 (#2)
Operator : ECL
Sample : WG357044-02 PEST CCV 20 PPB
Misc : 1,1 STD43387
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 13:15:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021911\
Data File : 15G25081.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 13:17 (#1); 19 Feb 2011 13:45 (#2)
Operator : ECL
Sample : WG357045-01 TOX CCV 500 PPB
Misc : 1,1 STD43915
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 21 12:37:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.88	566.2E6	520.3E6	444.135	475.861
2)	L1 Toxaphene-2	15.84	15.94	831.7E6	1455.4E6	441.213	438.943
3)	L1 Toxaphene-3	16.80	16.73	1462.8E6	443.7E6	432.957	440.634
4)	L1 Toxaphene-4	17.04	17.07	621.0E6	935.1E6	408.793	406.662
5)	L1 Toxaphene-5	17.50	17.58	553.5E6	367.2E6	394.032	417.777
	Sum Toxaphene-1			4035.2E6	3721.7E6	2121.131	2179.876
Average	Toxaphene-1					424.226	435.975

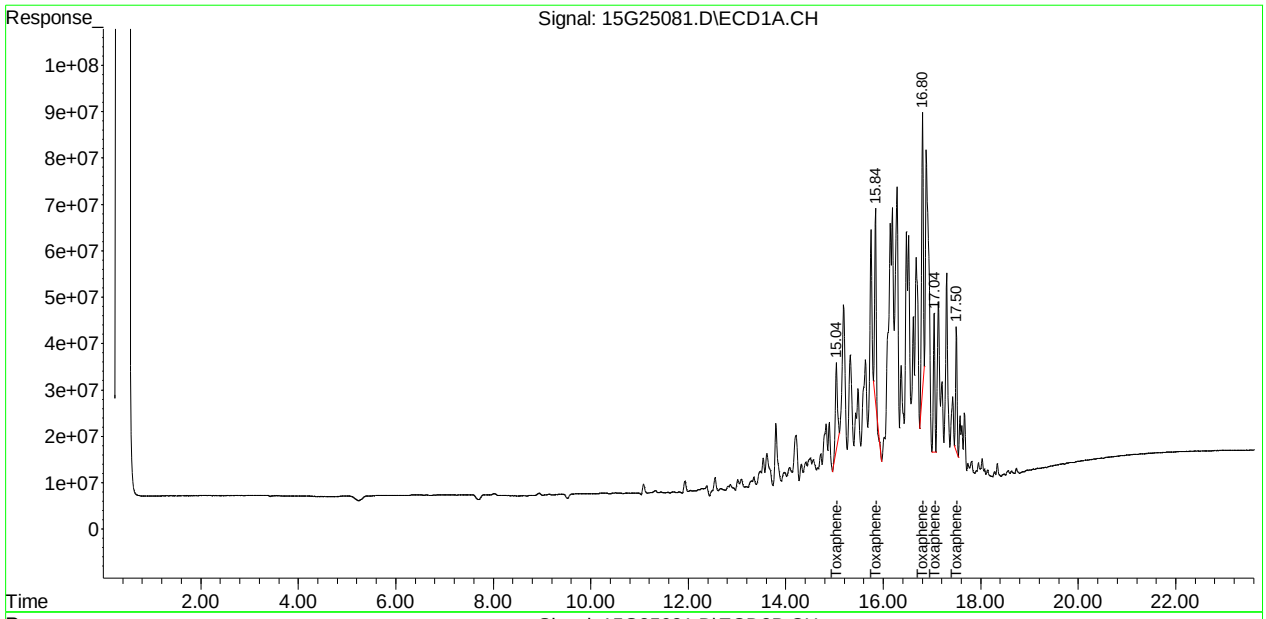
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

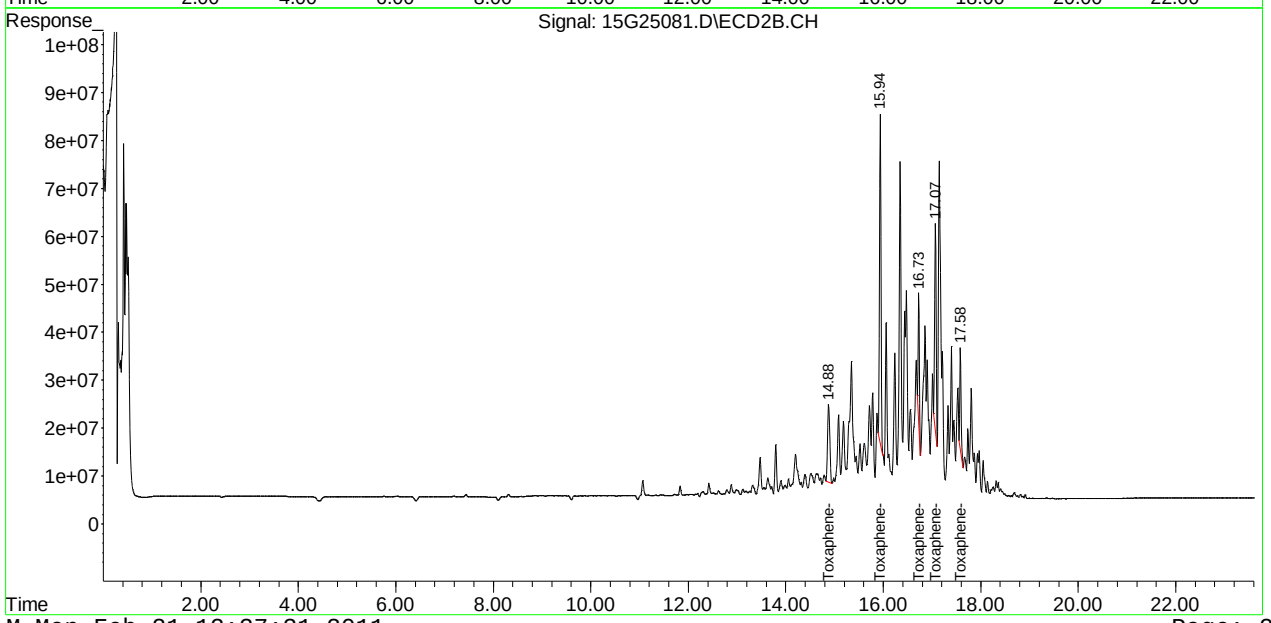
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021911\
Data File : 15G25081.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 13:17 (#1); 19 Feb 2011 13:45 (#2)
Operator : ECL
Sample : WG357045-01 TOX CCV 500 PPB
Misc : 1,1 STD43915
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 21 12:37:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25092.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 18:28 (#1); 19 Feb 2011 18:56 (#2)
Operator : ECL
Sample : WG357044-03 PEST CCV 10 PPB
Misc : 1,1 STD43387
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 11:57:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

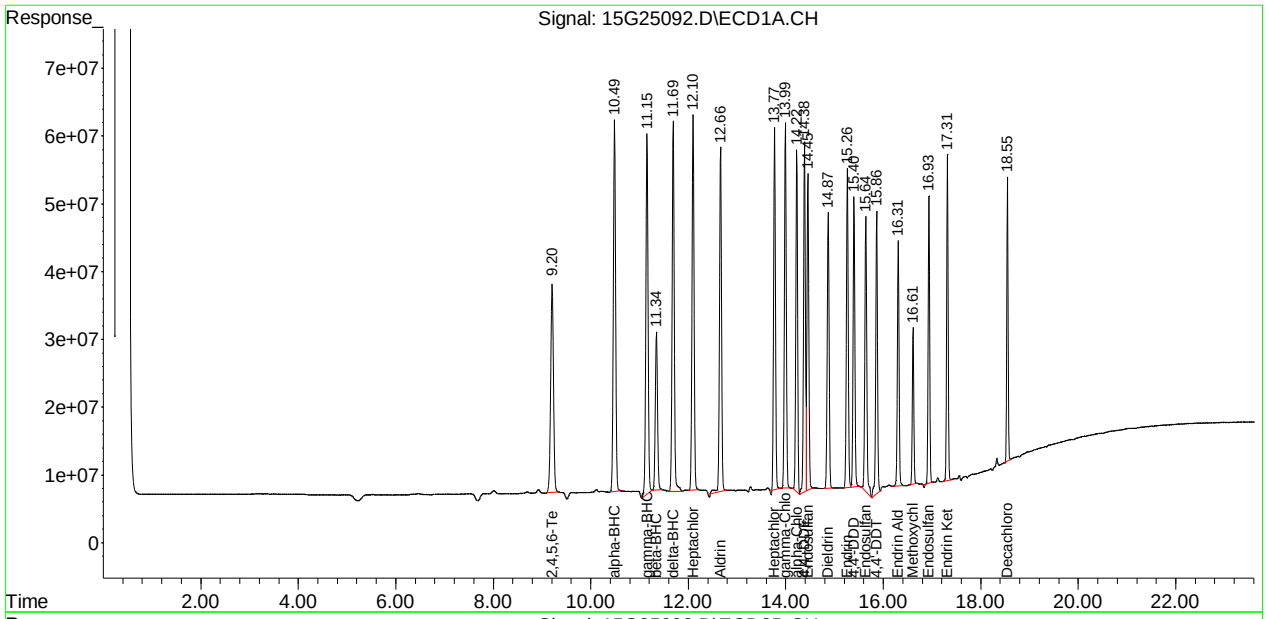
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.13	1225.5E6	881.1E6	9.438	9.129
	Spiked Amount	20.000	Range 30 - 132		Recovery =	47.19%	45.64%
22) S	Decachlorobiphen	18.55	18.86	774.3E6	542.2E6	8.707	8.468
	Spiked Amount	20.000	Range 36 - 144		Recovery =	43.54%	42.34%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	1753.4E6	1291.9E6	9.104	9.217
3)	gamma-BHC	11.15	11.23	1662.4E6	1248.2E6	9.298	9.225
4)	beta-BHC	11.35	11.41	727.3E6	556.7E6	9.251	9.349
5)	Heptachlor	12.10	12.08	1607.4E6	1200.8E6	9.331	9.377
6)	delta-BHC	11.69	11.98	1644.8E6	1262.2E6	9.163	9.171
7)	Aldrin	12.66	12.69	1473.7E6	1157.2E6	9.519	9.289
8)	Heptachlor Epoxi	13.77	13.74	1393.6E6	811.4E6	8.956	7.836
9)	gamma-Chlordane	13.99	14.08	1421.0E6	1047.7E6	8.789	8.928
10)	alpha-Chlordane	14.22	14.34	1280.6E6	1012.5E6	8.458	8.891
11)	Endosulfan I	14.45	14.43	1229.4E6	833.5E6	8.925	8.886
12)	4,4'-DDE	14.38	14.65	1322.4E6	974.8E6	9.277	9.040
13)	Dieldrin	14.87	14.91	1099.3E6	1009.0E6	8.189	9.091
14)	Endrin	15.26	15.43	1208.6E6	819.9E6	9.028	8.853
15)	4,4'-DDD	15.40	15.64	1056.9E6	798.6E6	9.068	9.110
16)	Endosulfan II	15.64	15.80	1126.9E6	847.2E6	9.150	8.971
17)	4,4'-DDT	15.86	16.15	1027.8E6	720.6E6	8.739	8.169
18)	Endrin Aldehyde	16.31	16.33	863.6E6	609.8E6	8.789	8.757
19)	Endosulfan Sulfa	16.94	16.74	911.8E6	722.8E6	8.553	8.668
20)	Methoxychlor	16.61	17.13	483.1E6	348.3E6	8.463	8.236
21)	Endrin Ketone	17.31	17.45	1014.4E6	734.6E6	8.614	8.509

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25092.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 18:28 (#1); 19 Feb 2011 18:56 (#2)
Operator : ECL
Sample : WG357044-03 PEST CCV 10 PPB
Misc : 1,1 STD43387
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 11:57:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25093.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 18:56 (#1); 19 Feb 2011 19:25 (#2)
Operator : ECL
Sample : WG357045-02 TOX CCV 200 PPB
Misc : 1,1 STD43915
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 21 11:59:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.03	14.88	307.6E6	197.4E6	241.281	180.511 #
2)	L1 Toxaphene-2	15.83	15.94	347.7E6	560.6E6	184.485	169.082
3)	L1 Toxaphene-3	16.80	16.73	510.1E6	163.9E6	150.963	162.733
4)	L1 Toxaphene-4	17.04	17.07	215.1E6	354.8E6	141.578	154.274
5)	L1 Toxaphene-5	17.49	17.58	246.3E6	139.6E6	175.341	158.804
	Sum Toxaphene-1			1626.8E6	1416.2E6	893.647	825.404
Average	Toxaphene-1					178.729	165.081

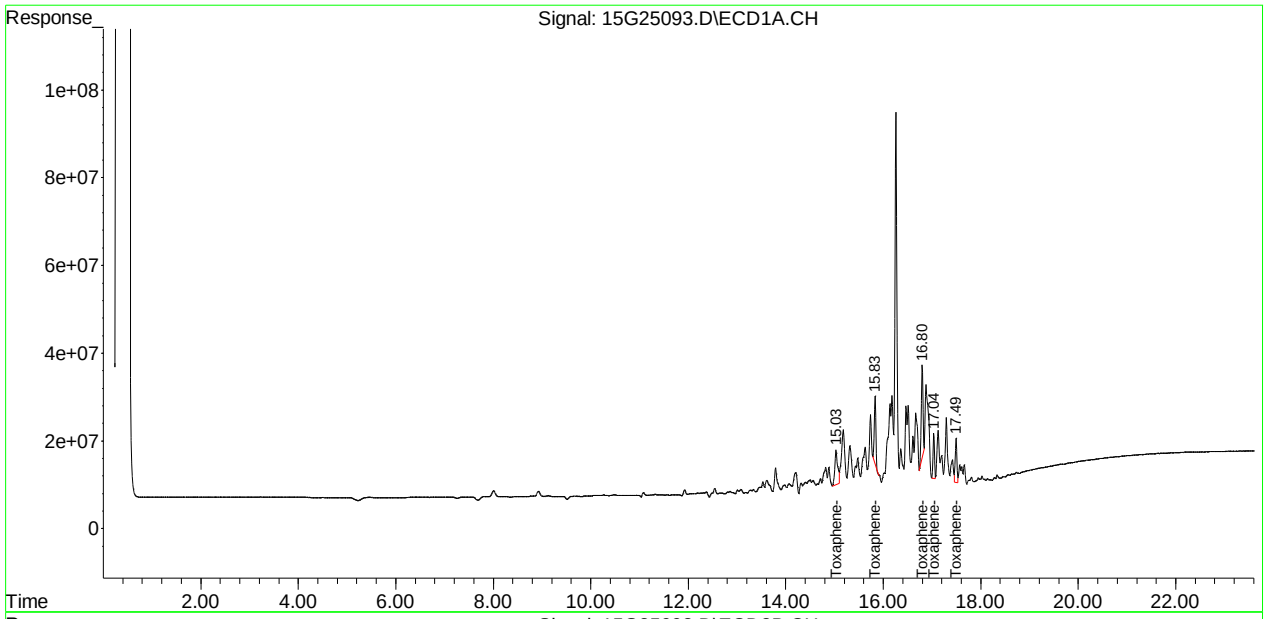
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

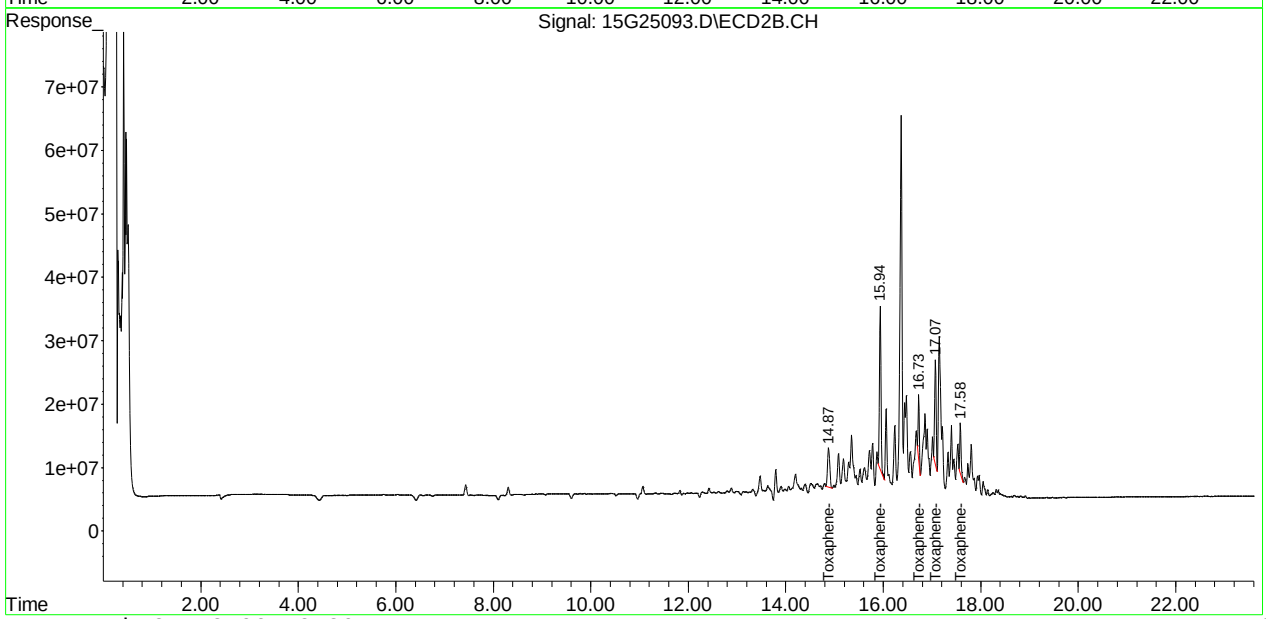
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25093.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 18:56 (#1); 19 Feb 2011 19:25 (#2)
Operator : ECL
Sample : WG357045-02 TOX CCV 200 PPB
Misc : 1,1 STD43915
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 21 11:59:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25176.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 13:24 (#1); 22 Feb 2011 13:53 (#2)
Operator : ECL
Sample : WG357262-02 PEST CCV 20 PPB
Misc : 1,1 STD43387
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 15:00:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

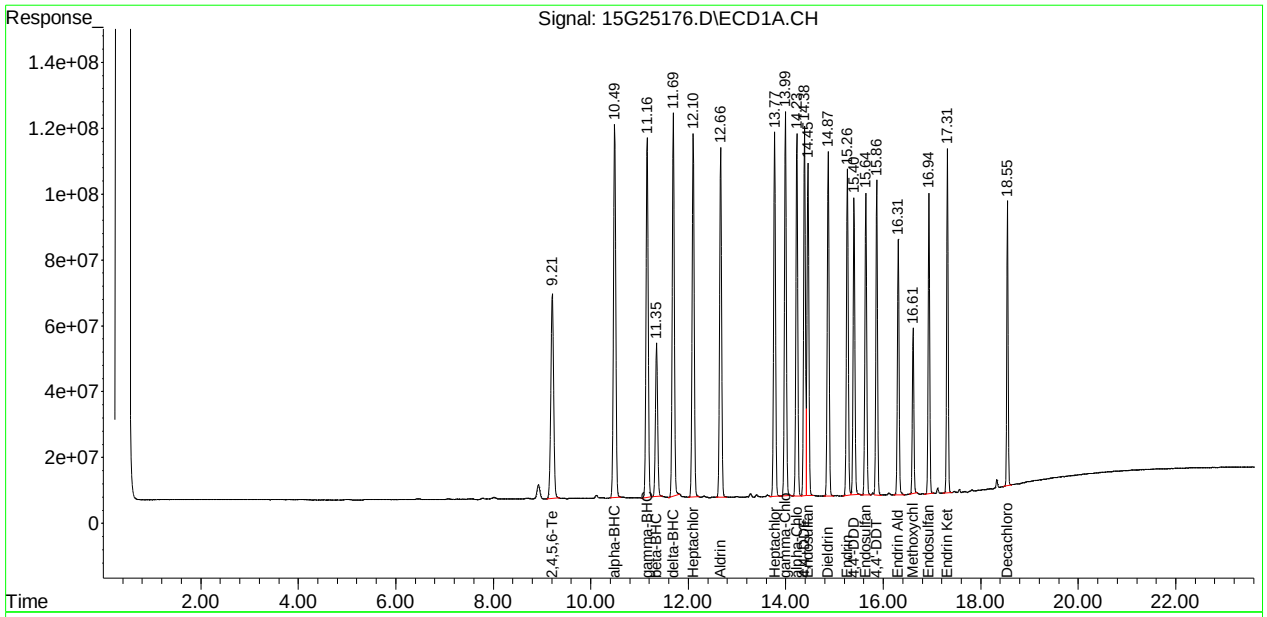
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	2452.9E6	1881.3E6	18.890	19.492
	Spiked Amount	20.000	Range 30 - 132		Recovery =	94.45%	97.46%
22) S	Decachlorobiphen	18.55	18.87	1594.5E6	1120.7E6	17.930	17.502
	Spiked Amount	20.000	Range 36 - 144		Recovery =	89.65%	87.51%
	Target Compounds						
2)	alpha-BHC	10.49	10.50	3665.8E6	2879.1E6	19.034	20.541
3)	gamma-BHC	11.16	11.23	3366.7E6	2709.3E6	18.830	20.024
4)	beta-BHC	11.35	11.41	1447.3E6	1165.2E6	18.408	19.567
5)	Heptachlor	12.10	12.08	3258.8E6	2556.7E6	18.916	19.964
6)	delta-BHC	11.69	11.98	3393.4E6	2762.0E6	18.903	20.068
7)	Aldrin	12.66	12.69	3006.2E6	2472.7E6	19.418	19.848
8)	Heptachlor Epoxi	13.77	13.75	2936.2E6	2086.0E6	18.869	20.145
9)	gamma-Chlordane	13.99	14.08	3063.3E6	2271.1E6	18.947	19.352
10)	alpha-Chlordane	14.23	14.34	2862.5E6	2169.5E6	18.906	19.050
11)	Endosulfan I	14.45	14.43	2683.0E6	1885.3E6	19.477	20.100
12)	4,4'-DDE	14.38	14.65	2810.2E6	2128.5E6	19.715	19.738
13)	Dieldrin	14.87	14.92	2741.6E6	2191.4E6	20.423	19.744
14)	Endrin	15.26	15.44	2557.4E6	1877.3E6	19.102	20.269
15)	4,4'-DDD	15.40	15.65	2237.5E6	1724.7E6	19.198	19.676
16)	Endosulfan II	15.64	15.80	2362.7E6	1807.4E6	19.185	19.137
17)	4,4'-DDT	15.86	16.16	2223.0E6	1686.9E6	18.900	19.122
18)	Endrin Aldehyde	16.31	16.34	1830.0E6	1317.1E6	18.622	18.915
19)	Endosulfan Sulfa	16.94	16.74	1967.9E6	1551.1E6	18.459	18.601
20)	Methoxychlor	16.61	17.13	1075.3E6	775.9E6	18.836	18.349
21)	Endrin Ketone	17.31	17.46	2192.3E6	1595.4E6	18.618	18.479

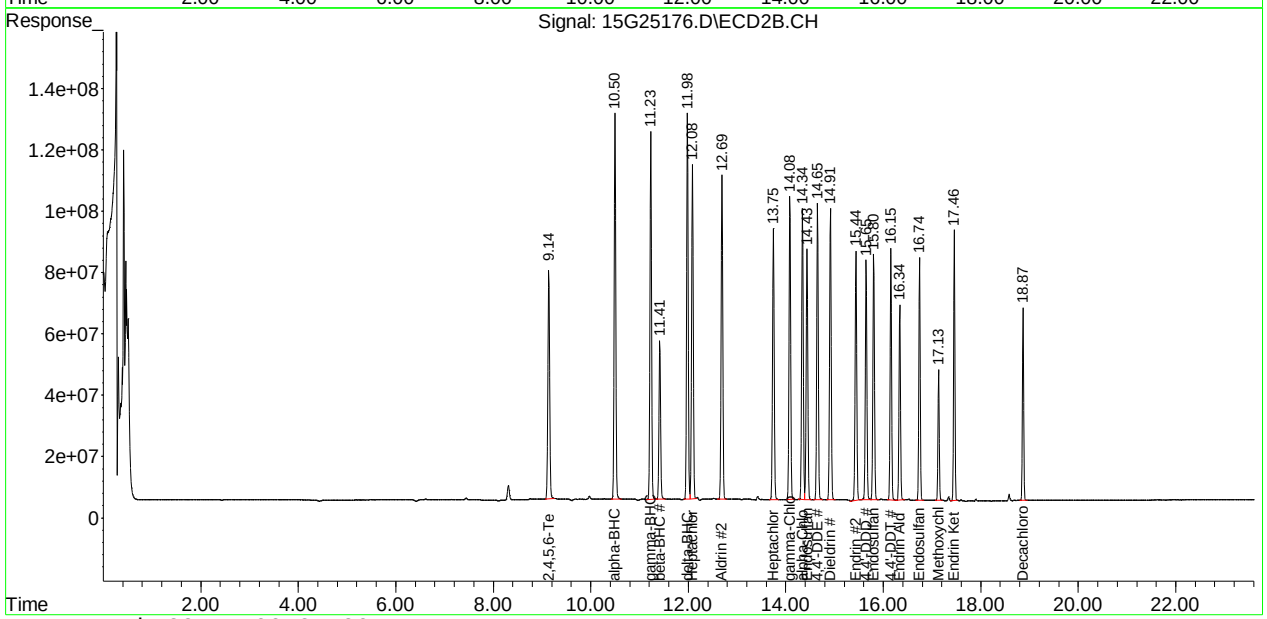
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25176.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 13:24 (#1); 22 Feb 2011 13:53 (#2)
Operator : ECL
Sample : WG357262-02 PEST CCV 20 PPB
Misc : 1,1 STD43387
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 15:00:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25177.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 14:54 (#1); 22 Feb 2011 15:22 (#2)
Operator : ECL
Sample : WG357263-01 TOX CCV 500 PPB
Misc : 1,1 STD43915
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 22 16:09:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.04	14.88	570.6E6	527.6E6	447.546	482.536
2)	L1 Toxaphene-2	15.84	15.94	910.7E6	1585.7E6	483.155	478.245
3)	L1 Toxaphene-3	16.81	16.73	1543.4E6	479.1E6	456.800	475.739
4)	L1 Toxaphene-4	17.04	17.07	684.9E6	1016.8E6	450.888	442.165
5)	L1 Toxaphene-5	17.50	17.58	645.2E6	410.5E6	459.306	467.104
	Sum Toxaphene-1			4354.8E6	4019.6E6	2297.696	2345.789
Average	Toxaphene-1					459.539	469.158

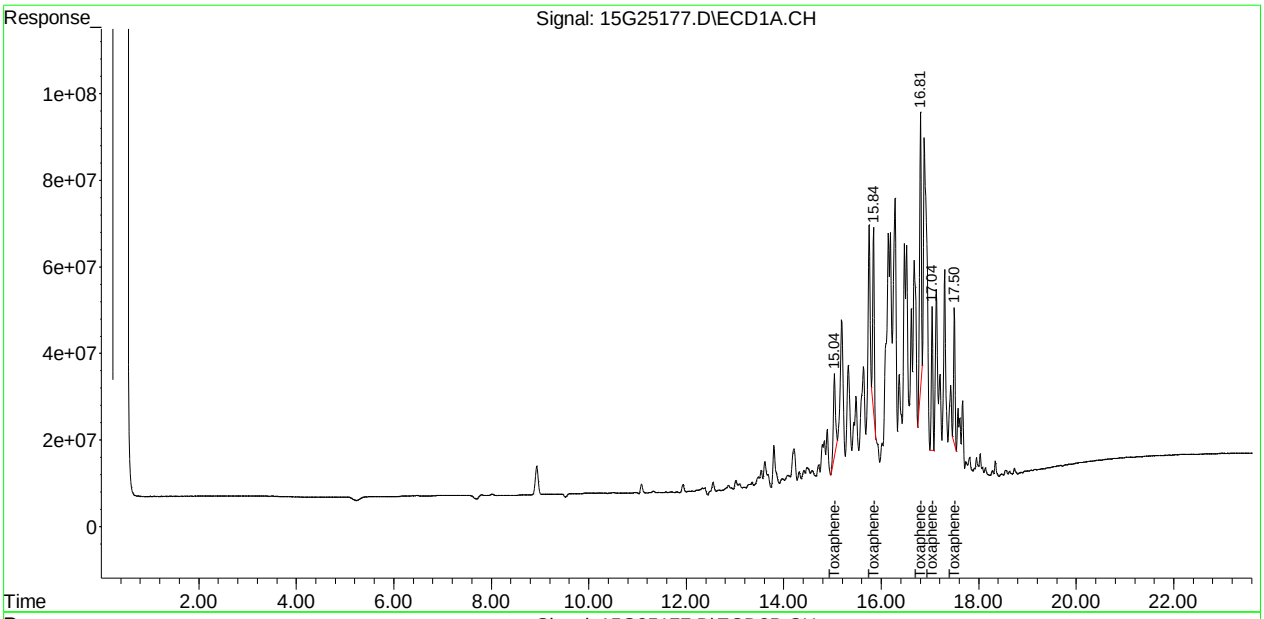
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

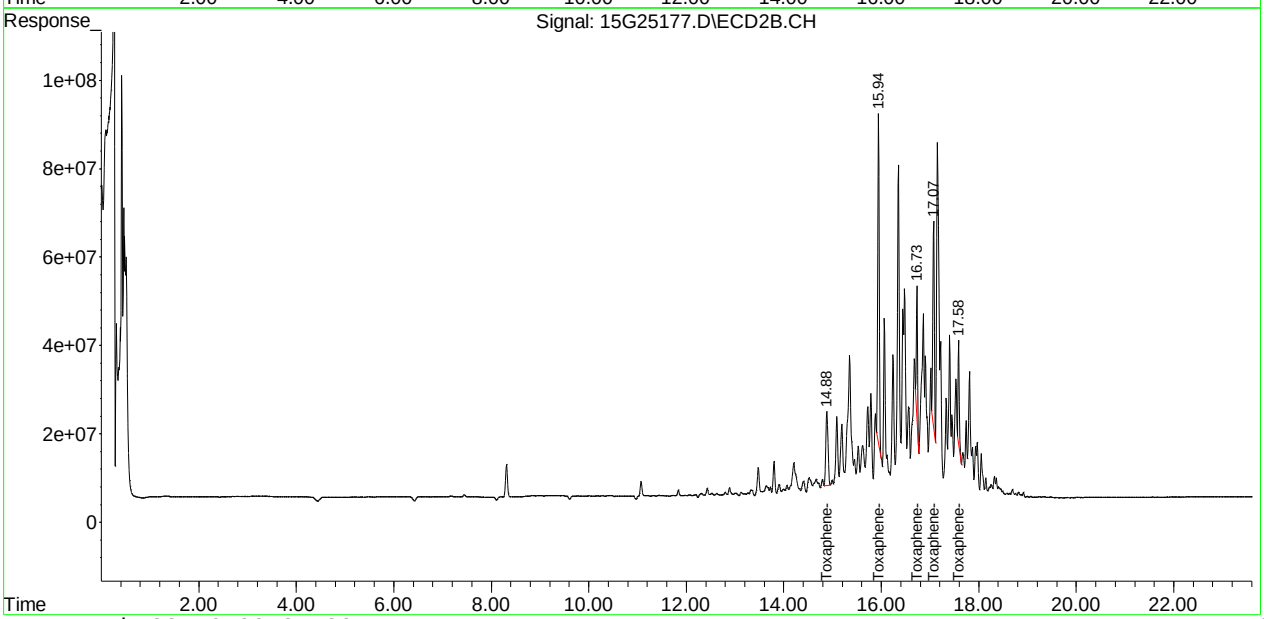
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25177.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 14:54 (#1); 22 Feb 2011 15:22 (#2)
Operator : ECL
Sample : WG357263-01 TOX CCV 500 PPB
Misc : 1,1 STD43915
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 22 16:09:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25187.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 19:37 (#1); 22 Feb 2011 20:06 (#2)
Operator : ECL
Sample : WG357262-03 PEST CCV 10 PPB
Misc : 1,1 STD43387
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 09:44:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

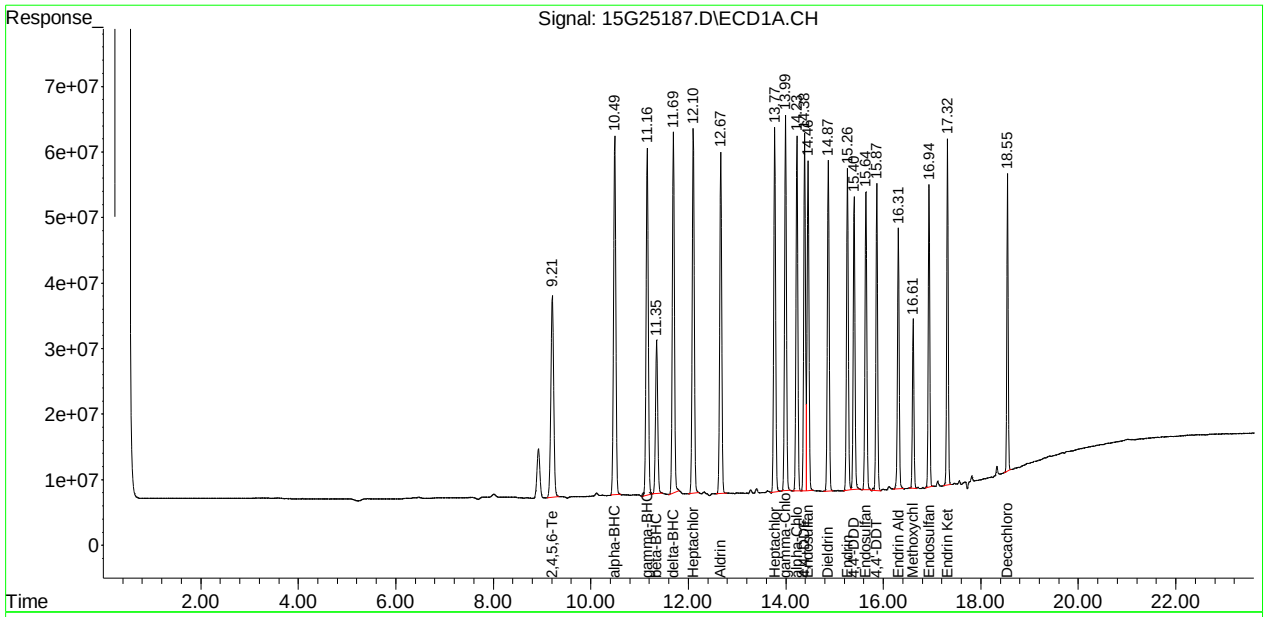
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	1222.5E6	937.6E6	9.415	9.715
	Spiked Amount	20.000	Range 30 - 132		Recovery =	47.07%	48.58%
22) S	Decachlorobiphen	18.55	18.86	846.3E6	607.9E6	9.517	9.494
	Spiked Amount	20.000	Range 36 - 144		Recovery =	47.59%	47.47%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	1751.6E6	1397.1E6	9.095	9.968
3)	gamma-BHC	11.16	11.23	1641.1E6	1318.8E6	9.179	9.747
4)	beta-BHC	11.35	11.41	728.8E6	586.9E6	9.269	9.856
5)	Heptachlor	12.10	12.08	1624.2E6	1291.4E6	9.428	10.084
6)	delta-BHC	11.69	11.98	1620.9E6	1339.8E6	9.029	9.735
7)	Aldrin	12.67	12.69	1477.1E6	1236.9E6	9.541	9.928
8)	Heptachlor Epoxi	13.77	13.74	1479.4E6	1058.3E6	9.508	10.221
9)	gamma-Chlordane	13.99	14.08	1510.9E6	1136.9E6	9.345	9.687
10)	alpha-Chlordane	14.23	14.34	1416.5E6	1093.9E6	9.356	9.605
11)	Endosulfan I	14.46	14.43	1341.2E6	964.0E6	9.736	10.278
12)	4,4'-DDE	14.39	14.65	1364.8E6	1059.1E6	9.575	9.821
13)	Dieldrin	14.87	14.91	1326.8E6	1095.1E6	9.884	9.866
14)	Endrin	15.26	15.44	1258.2E6	945.1E6	9.398	10.205
15)	4,4'-DDD	15.40	15.64	1099.1E6	857.2E6	9.430	9.779
16)	Endosulfan II	15.64	15.80	1183.9E6	924.6E6	9.613	9.790
17)	4,4'-DDT	15.87	16.15	1100.4E6	853.0E6	9.356	9.669
18)	Endrin Aldehyde	16.31	16.33	950.9E6	722.4E6	9.677	10.375
19)	Endosulfan Sulfa	16.94	16.74	1004.5E6	801.6E6	9.423	9.612
20)	Methoxychlor	16.61	17.13	555.5E6	414.6E6	9.731	9.805
21)	Endrin Ketone	17.32	17.45	1119.0E6	819.4E6	9.503	9.490

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25187.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 19:37 (#1); 22 Feb 2011 20:06 (#2)
Operator : ECL
Sample : WG357262-03 PEST CCV 10 PPB
Misc : 1,1 STD43387
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 09:44:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25188.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 20:06 (#1); 22 Feb 2011 20:34 (#2)
Operator : ECL
Sample : WG357263-02 TOX CCV 200 PPB
Misc : 1,1 STD43915
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 23 09:44:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

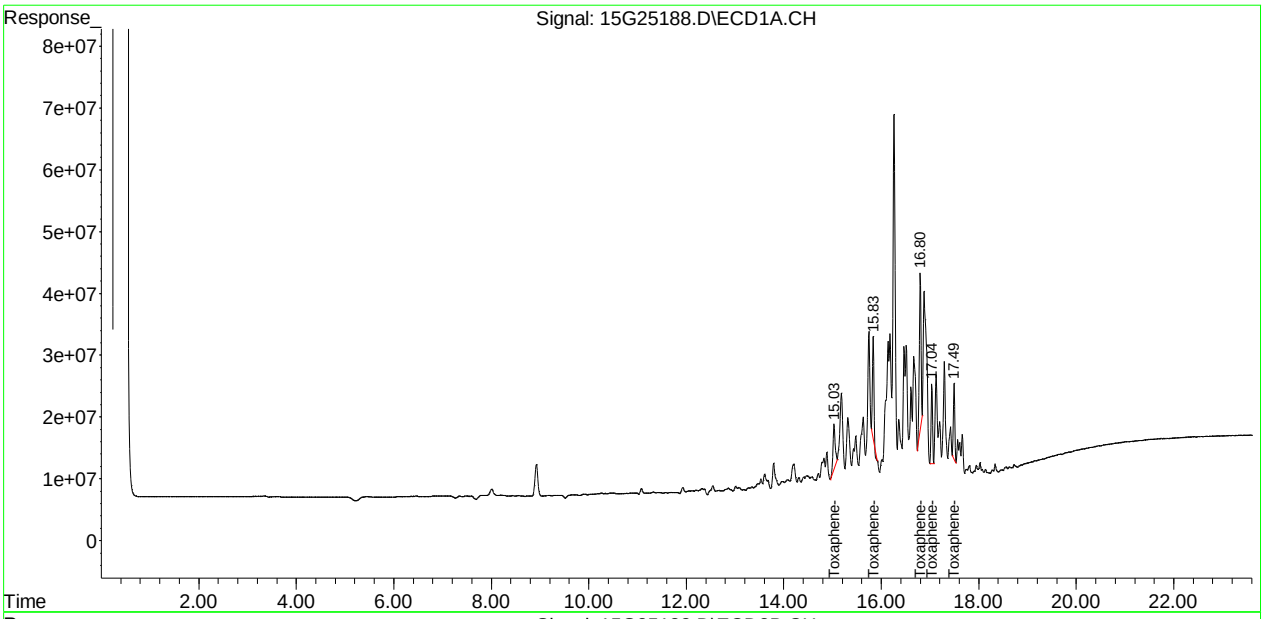
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.03	14.88	219.9E6	220.5E6	172.513	201.710
2)	L1 Toxaphene-2	15.83	15.94	343.3E6	641.7E6	182.134	193.529
3)	L1 Toxaphene-3	16.80	16.73	616.2E6	194.8E6	182.379	193.467
4)	L1 Toxaphene-4	17.04	17.07	267.2E6	389.5E6	175.879	169.398
5)	L1 Toxaphene-5	17.49	17.58	248.8E6	165.8E6	177.115	188.660
	Sum Toxaphene-1			1695.4E6	1612.4E6	890.021	946.763
Average	Toxaphene-1					178.004	189.353

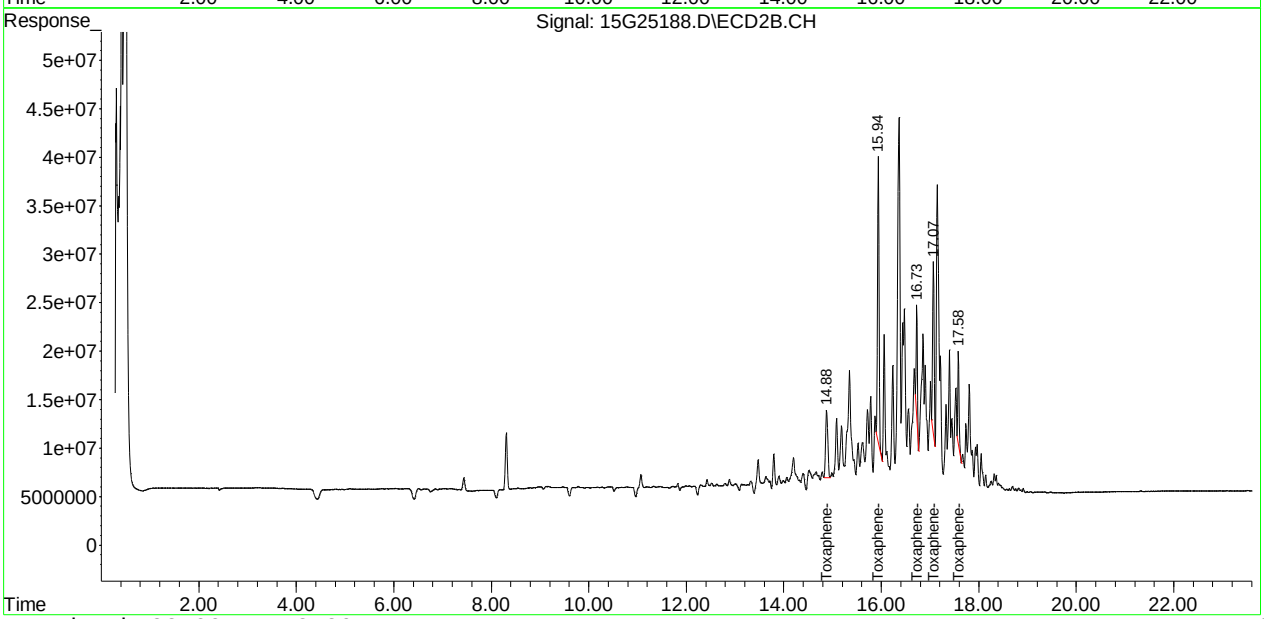
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25188.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 20:06 (#1); 22 Feb 2011 20:34 (#2)
Operator : ECL
Sample : WG357263-02 TOX CCV 200 PPB
Misc : 1,1 STD43915
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 23 09:44:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 14:48 (#1); 18 Feb 2011 15:16 (#2)
Operator : ECL
Sample : WG357038-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 18 17:37:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 11, 2011
QLast Update : Tue Feb 15 11:13:20 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

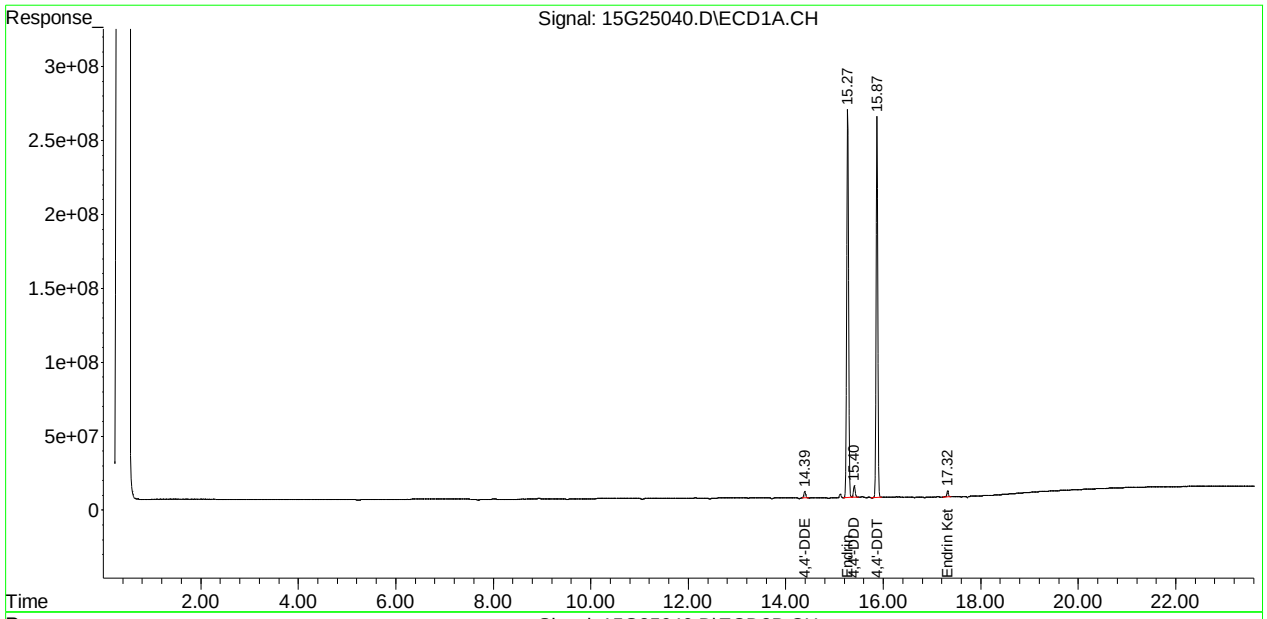
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.39	14.65	108.7E6	76503705	0.824	0.851
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.27	15.44	6997.1E6	4374.1E6	56.195	54.470
15)	4,4'-DDD	15.41	0.00	201.2E6	0	1.945	N.D. #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.87	16.16	6020.9E6	4017.7E6	52.345	54.407
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.32	17.46	95779535	91045998	0.899	1.294 #

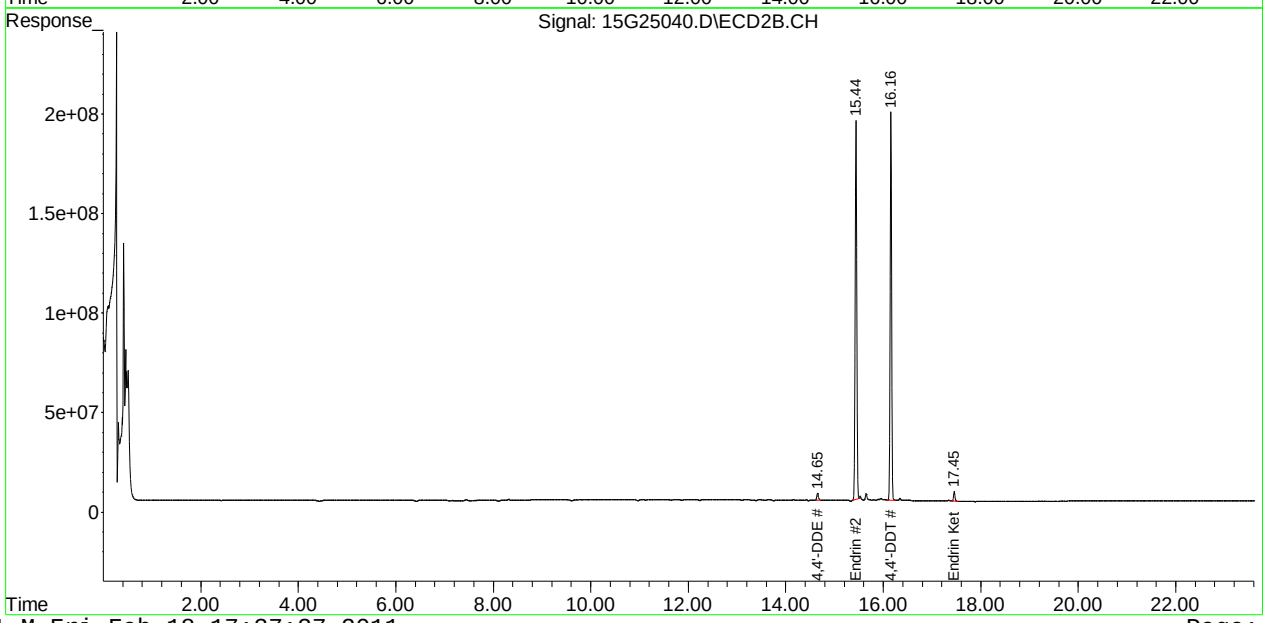
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Feb 2011 14:48 (#1); 18 Feb 2011 15:16 (#2)
Operator : ECL
Sample : WG357038-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 18 17:37:34 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 11, 2011
QLast Update : Tue Feb 15 11:13:20 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25065.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 4:31 (#1); 19 Feb 2011 5:00 (#2)
Operator : ECL
Sample : WG357038-02 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:00:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

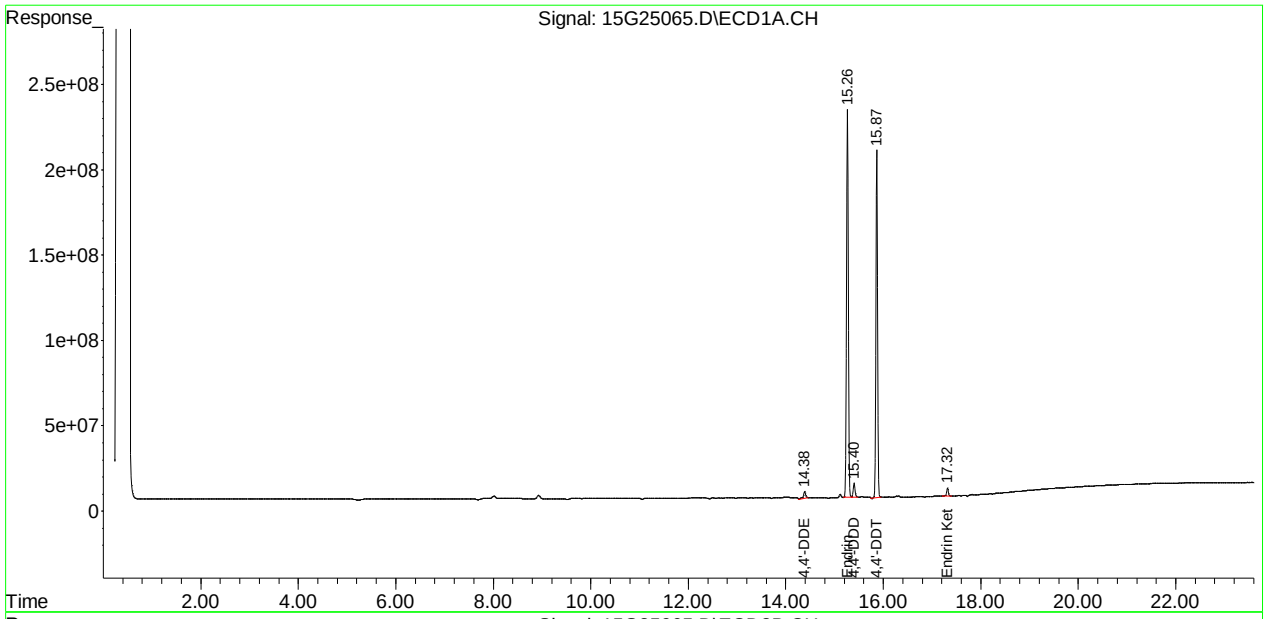
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.39	14.65	122.5E6	77135185	0.860	0.715
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.26	15.43	5844.3E6	4325.9E6	43.653	46.707
15)	4,4'-DDD	15.40	15.64	208.1E6	187.7E6	1.786	2.142
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.87	16.15	4717.7E6	3664.5E6	40.110	41.540
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.32	17.45	110.9E6	101.6E6	0.942	1.177

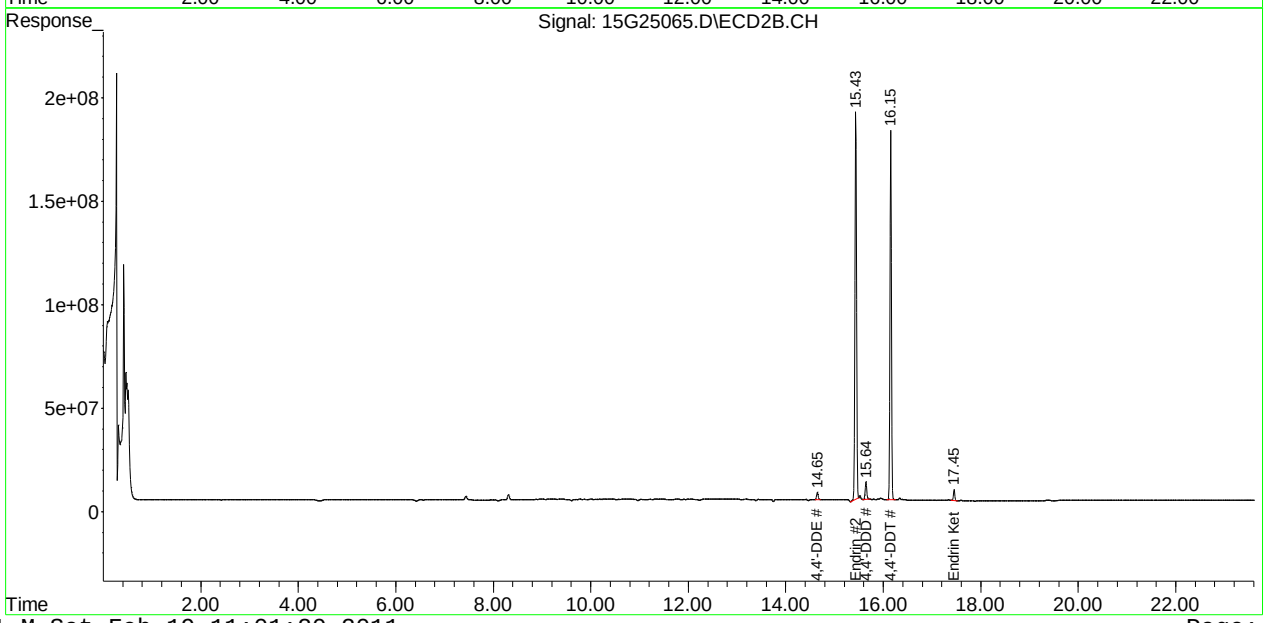
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25065.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 4:31 (#1); 19 Feb 2011 5:00 (#2)
Operator : ECL
Sample : WG357038-02 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:00:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25079.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 11:32 (#1); 19 Feb 2011 12:00 (#2)
Operator : ECL
Sample : WG357044-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 13:15:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.38	14.64	203.3E6	79486594	1.426	0.737 #
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.26	15.43	6826.2E6	4424.6E6	50.987	47.773
15)	4,4'-DDD	15.40	15.64	281.4E6	127.3E6	2.415	1.452 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.86	16.15	5518.1E6	3894.4E6	46.915	44.147
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.31	17.45	109.3E6	101.3E6	0.928	1.173 #

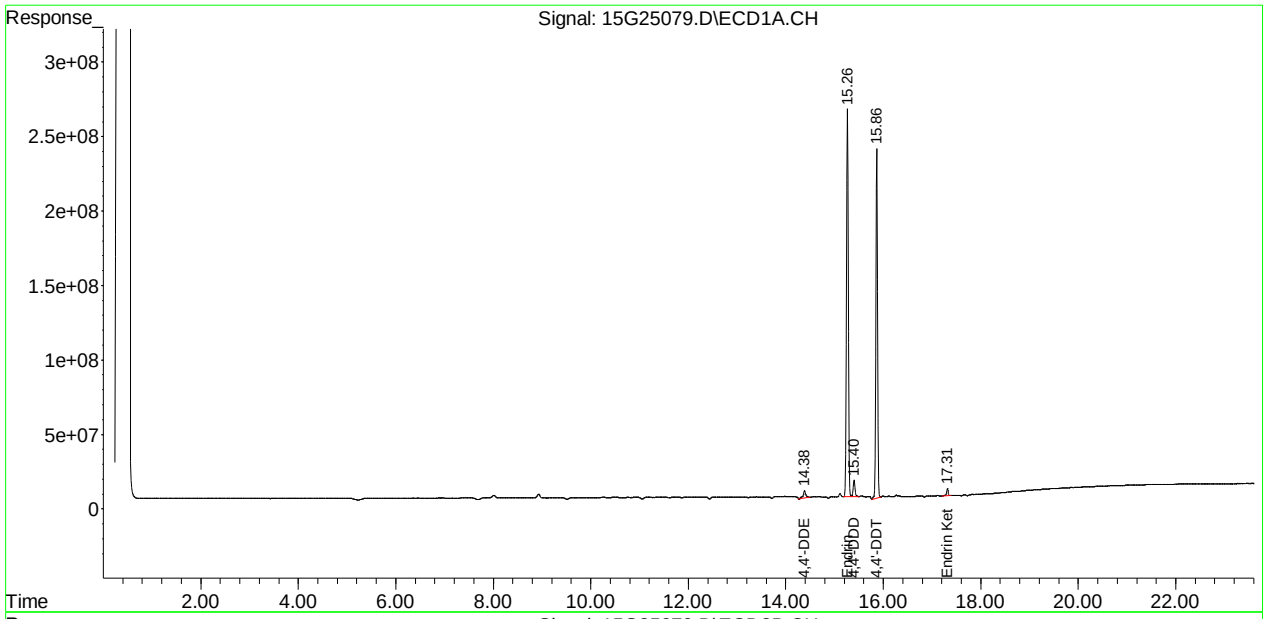
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

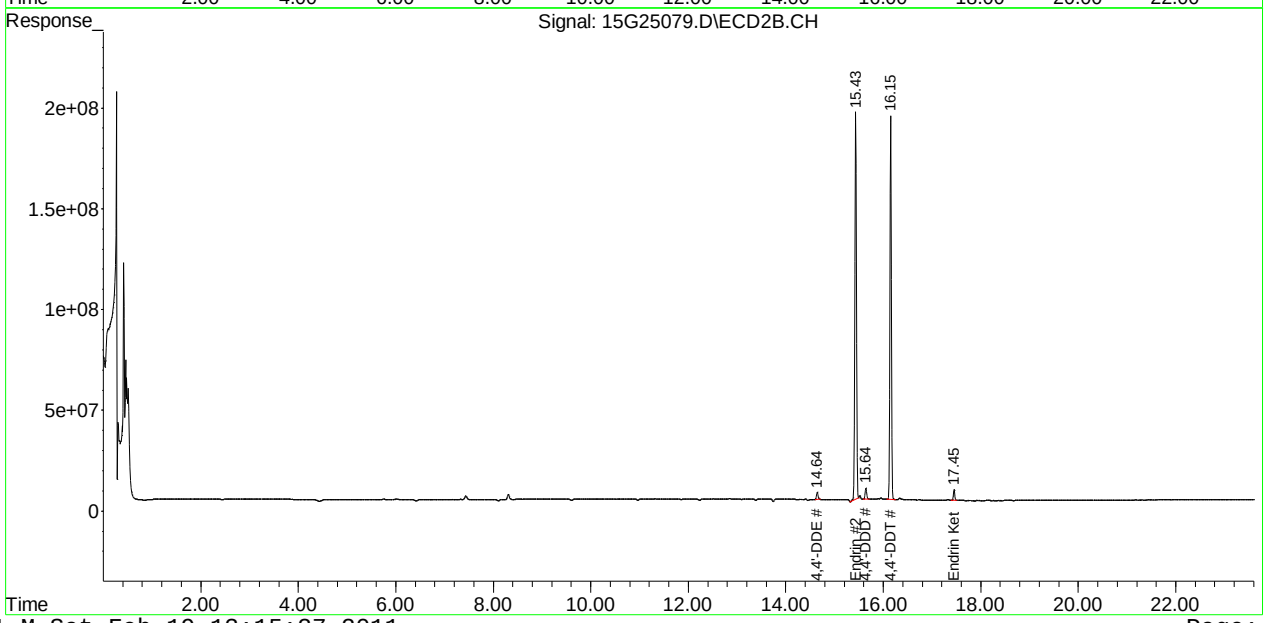
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25079.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 11:32 (#1); 19 Feb 2011 12:00 (#2)
Operator : ECL
Sample : WG357044-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 13:15:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25104.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Feb 2011 00:08 (#1); 20 Feb 2011 00:36 (#2)
Operator : ECL
Sample : WG357044-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 12:00:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

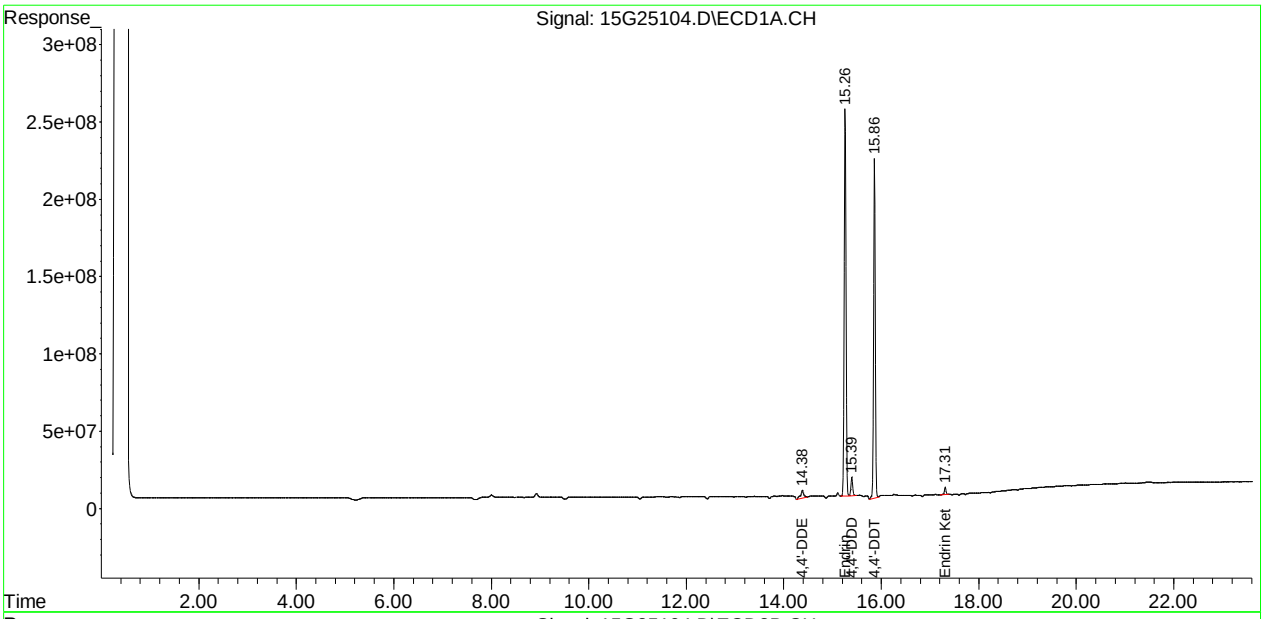
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.38	14.65	231.0E6	134.8E6	1.621	1.250
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.26	15.43	6510.3E6	4239.1E6	48.628	45.771
15)	4,4'-DDD	15.39	15.64	298.4E6	225.1E6	2.561	2.568
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.86	16.15	5184.6E6	3771.3E6	44.080	42.751
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.31	17.45	113.5E6	114.5E6	0.964	1.326 #

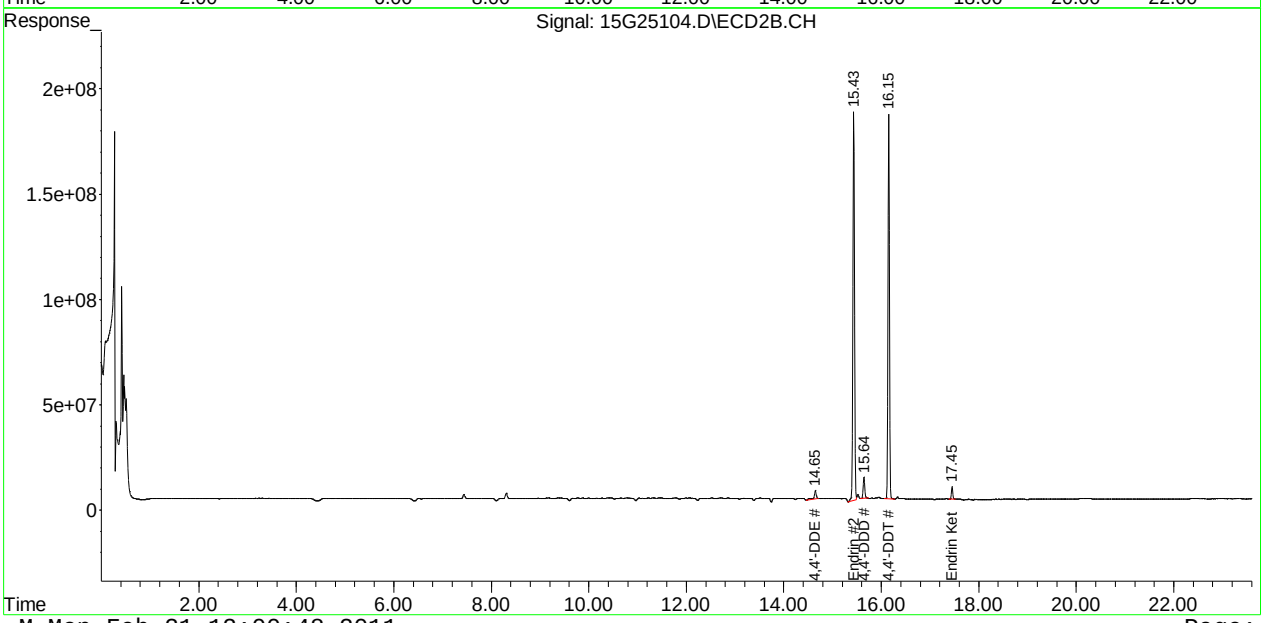
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\021911\
Data File : 15G25104.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Feb 2011 00:08 (#1); 20 Feb 2011 00:36 (#2)
Operator : ECL
Sample : WG357044-04 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 12:00:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25175.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 12:56 (#1); 22 Feb 2011 13:24 (#2)
Operator : ECL
Sample : WG357262-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 15:00:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

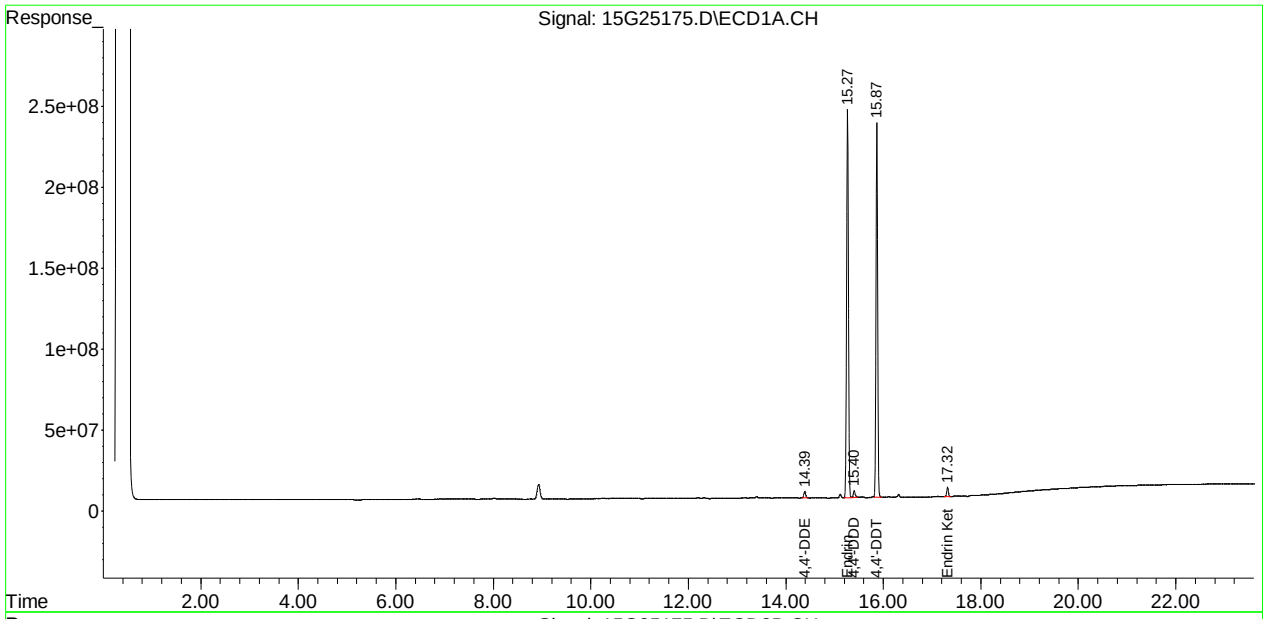
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.39	14.65	97570294	74262637	0.685	0.689
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.27	15.44	6297.0E6	4441.6E6	47.034	47.957
15)	4,4'-DDD	15.40	0.00	109.7E6	0	0.942	N.D. #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.87	16.16	5387.6E6	3935.0E6	45.806	44.607
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.32	17.45	124.4E6	61828307	1.057	0.716 #

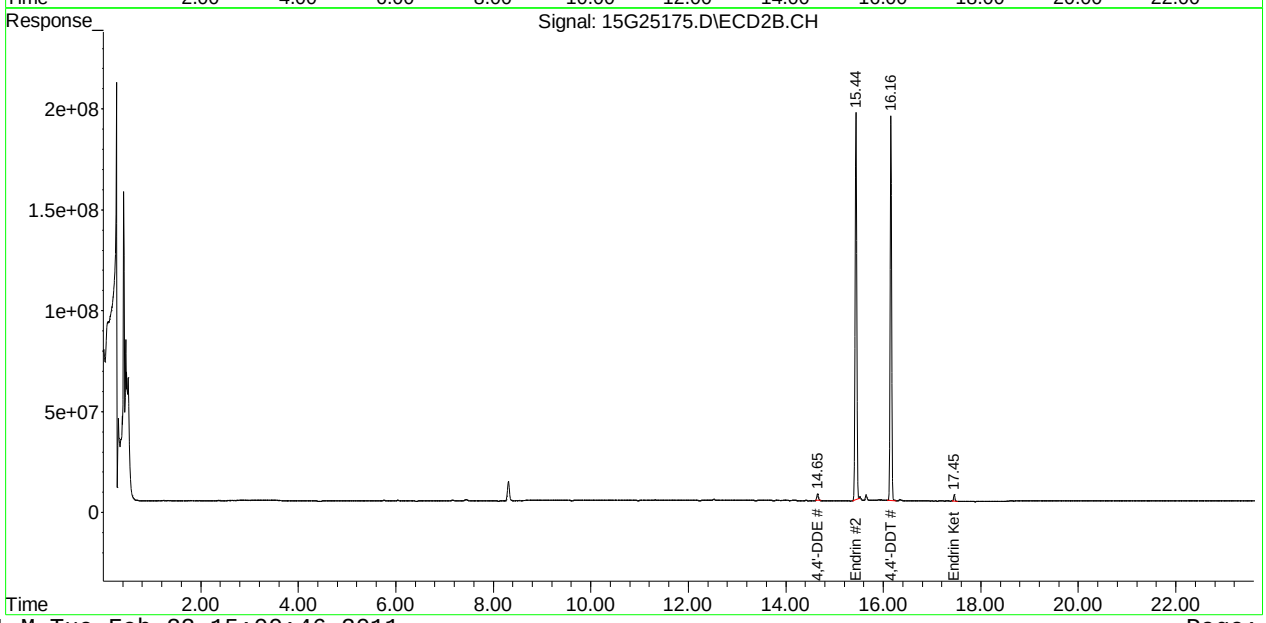
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\022211\
Data File : 15G25175.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 12:56 (#1); 22 Feb 2011 13:24 (#2)
Operator : ECL
Sample : WG357262-01 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 22 15:00:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25219.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Feb 2011 10:43 (#1); 23 Feb 2011 11:12 (#2)
Operator : ECL
Sample : WG357262-05 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:46:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 30 - 132		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 36 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	14.38	14.65	172.2E6	73837682	1.208	0.685 #
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	15.26	15.43	5863.8E6	3774.1E6	43.799	40.749
15)	4,4'-DDD	15.40	15.64	137.7E6	99634967	1.181	1.137
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	15.86	16.15	4977.3E6	3757.9E6	42.317	42.600
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	17.31	17.45	118.5E6	65465572	1.006	0.758

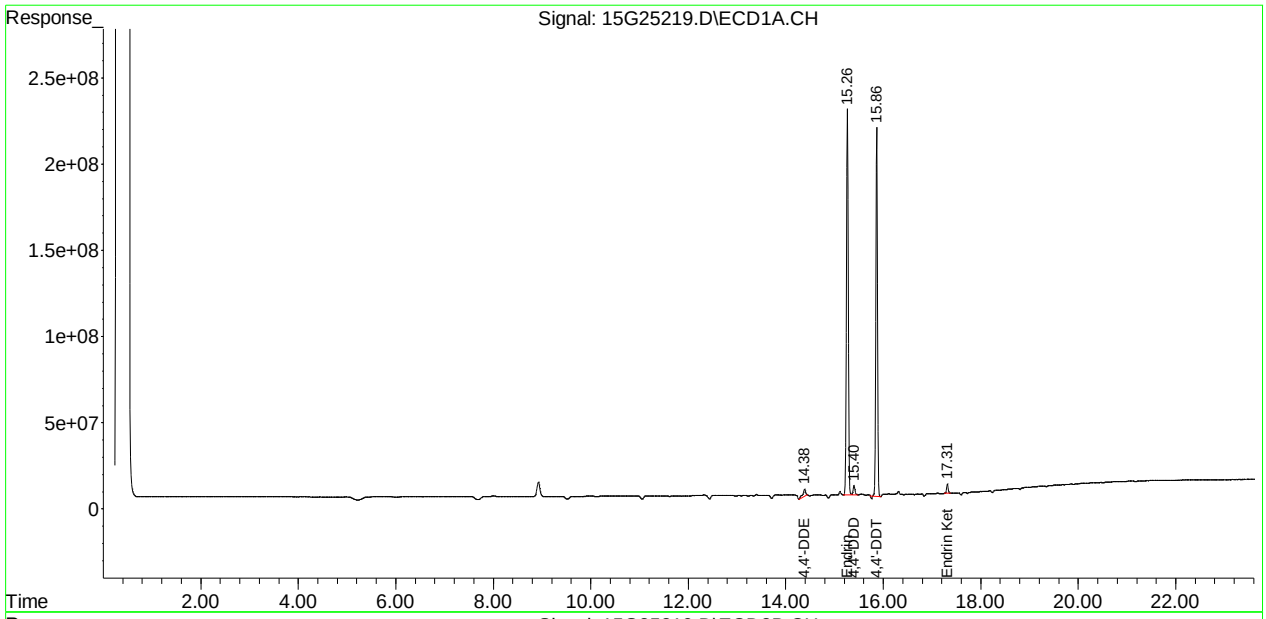
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

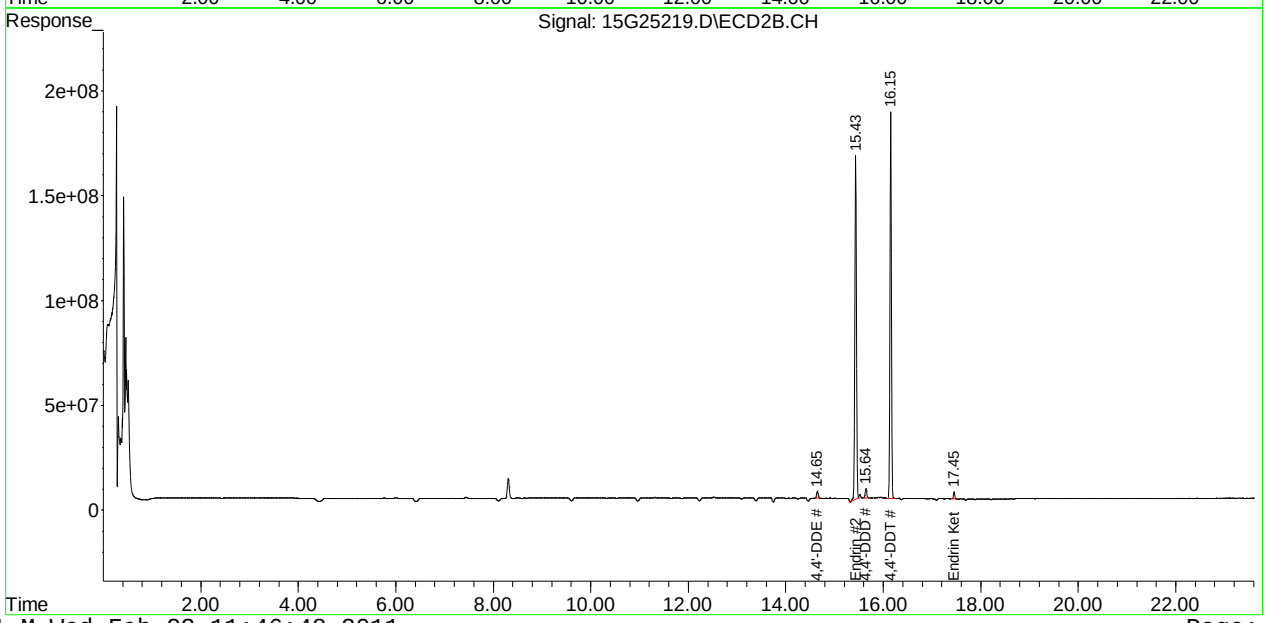
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25219.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Feb 2011 10:43 (#1); 23 Feb 2011 11:12 (#2)
Operator : ECL
Sample : WG357262-05 ENDRIN/DDT
Misc : 1,1 STD39983
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:46:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15

GC Column: RTx-CLP (Front)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.90	10.89	10.89	0.017
gamma-BHC	11.58	11.57	11.56	0.030
beta-BHC	11.77	11.76	11.75	0.030
Heptachlor	12.53	12.51	12.51	0.035
delta-BHC	12.12	12.11	12.10	0.030
Aldrin	13.09	13.08	13.08	0.017
Heptachlor Epoxide	14.22	14.21	14.20	0.030
gamma-Chlordane	14.44	14.43	14.42	0.030
alpha-Chlordane	14.67	14.66	14.66	0.017
Endosulfan I	14.91	14.90	14.90	0.017
4,4'-DDE	14.82	14.81	14.80	0.030
Dieldrin	15.33	15.32	15.31	0.030
Endrin	15.73	15.72	15.71	0.030
4,4'-DDD	15.84	15.83	15.83	0.017
Endosulfan II	16.09	16.09	16.08	0.017
4,4'-DDT	16.28	16.27	16.27	0.017
Endrin Aldehyde	16.73	16.73	16.72	0.017
Endosulfan Sulfate	17.34	17.34	17.33	0.017
Methoxychlor	16.99	16.98	16.97	0.030
Endrin Ketone	17.71	17.70	17.70	0.017
2,4,5,6-Tetrachloro-M-Xylene	9.60	9.59	9.59	0.017
Decachlorobiphenyl	18.89	18.89	18.88	0.017

RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP 15
GC Column: RTx-CLP II (Rear)

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	8/27/09	8/28/09	9/1/09
File #	15G18733	15G18777	15G18817

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
alpha-BHC	10.70	10.70	10.70	0.000
gamma-BHC	11.44	11.44	11.43	0.017
beta-BHC	11.61	11.61	11.61	0.000
Heptachlor	12.30	12.30	12.29	0.017
delta-BHC	12.18	12.19	12.18	0.017
Aldrin	12.91	12.91	12.90	0.017
Heptachlor Epoxide	13.96	13.97	13.96	0.017
gamma-Chlordane	14.30	14.30	14.30	0.000
alpha-Chlordane	14.56	14.56	14.56	0.000
Endosulfan I	14.66	14.66	14.66	0.000
4,4'-DDE	14.87	14.87	14.86	0.017
Dieldrin	15.14	15.14	15.14	0.000
Endrin	15.67	15.67	15.67	0.000
4,4'-DDD	15.86	15.86	15.86	0.000
Endosulfan II	16.02	16.02	16.01	0.017
4,4'-DDT	16.35	16.35	16.35	0.000
Endrin Aldehyde	16.54	16.54	16.53	0.017
Endosulfan Sulfate	16.93	16.93	16.93	0.000
Methoxychlor	17.30	17.30	17.30	0.000
Endrin Ketone	17.63	17.63	17.63	0.000
2,4,5,6-Tetrachloro-M-Xylene	9.33	9.33	9.33	0.000
Decachlorobiphenyl	19.03	19.03	19.03	0.000

2.1.2.5 Raw QC Data

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 2:09 (#1); 19 Feb 2011 2:38 (#2)
Operator : ECL
Sample : WG356905-01 BLANK
Misc : 1,1 WATER
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:59:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.21	9.13	2036.7E6	1492.2E6	15.685	15.460	
	Spiked Amount	20.000	Range 30 - 132		Recovery =	78.42%	77.30%	
22) S	Decachlorobiphen	18.55	18.86	1261.6E6	963.7E6	14.186	15.051	
	Spiked Amount	20.000	Range 36 - 144		Recovery =	70.93%	75.26%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	11.98	0	47989962	N.D.	0.349	#
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	13.97f	0.00	68987926	0	0.427	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.48f	0.00	51784014	0	0.376	N.D.	#
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

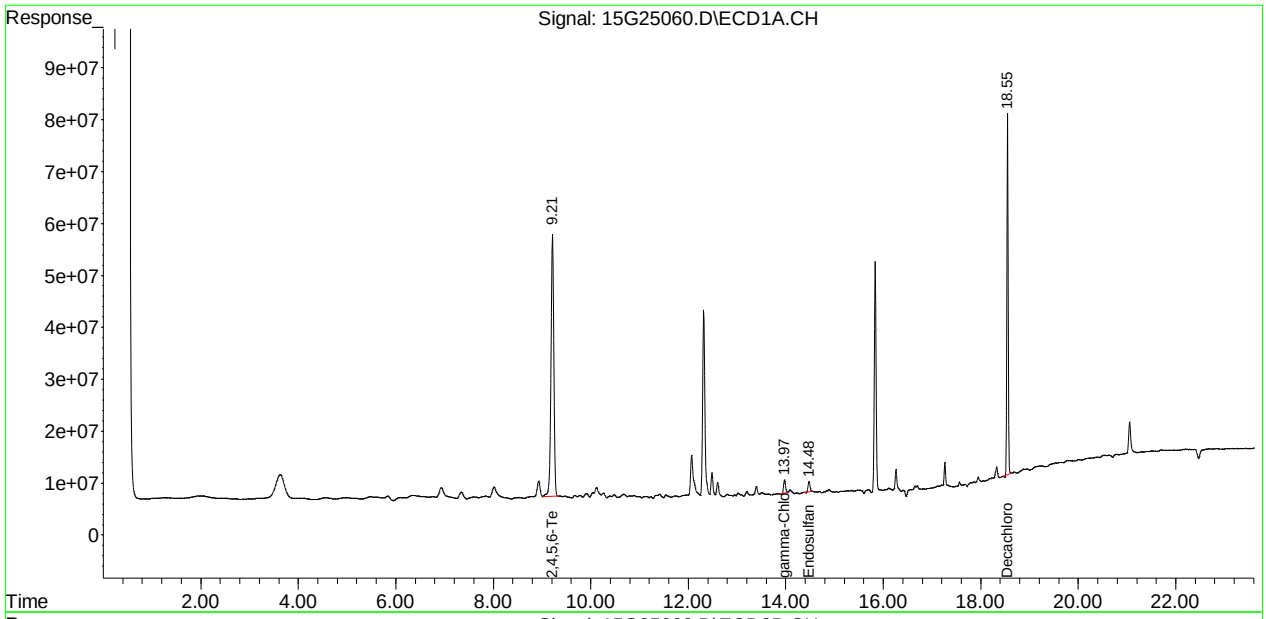
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

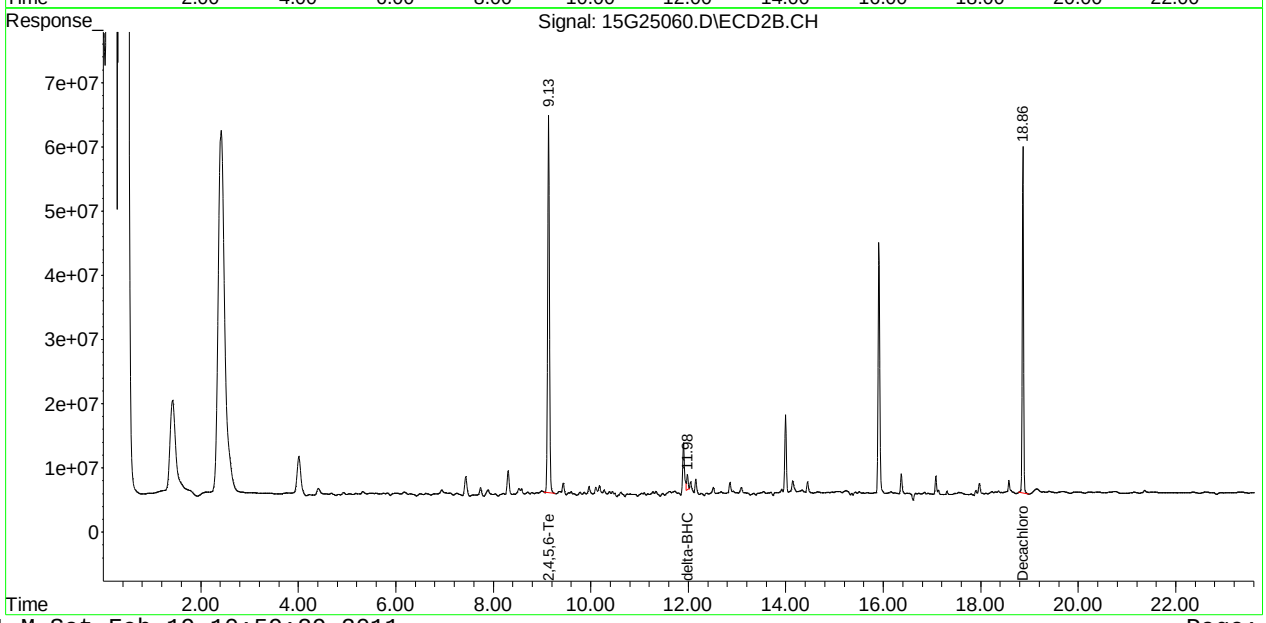
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 2:09 (#1); 19 Feb 2011 2:38 (#2)
Operator : ECL
Sample : WG356905-01 BLANK
Misc : 1,1 WATER
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 10:59:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25178.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 15:22 (#1); 22 Feb 2011 15:51 (#2)
Operator : ECL
Sample : WG356900-02 BLANK
Misc : 7,1 SOIL
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:04 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

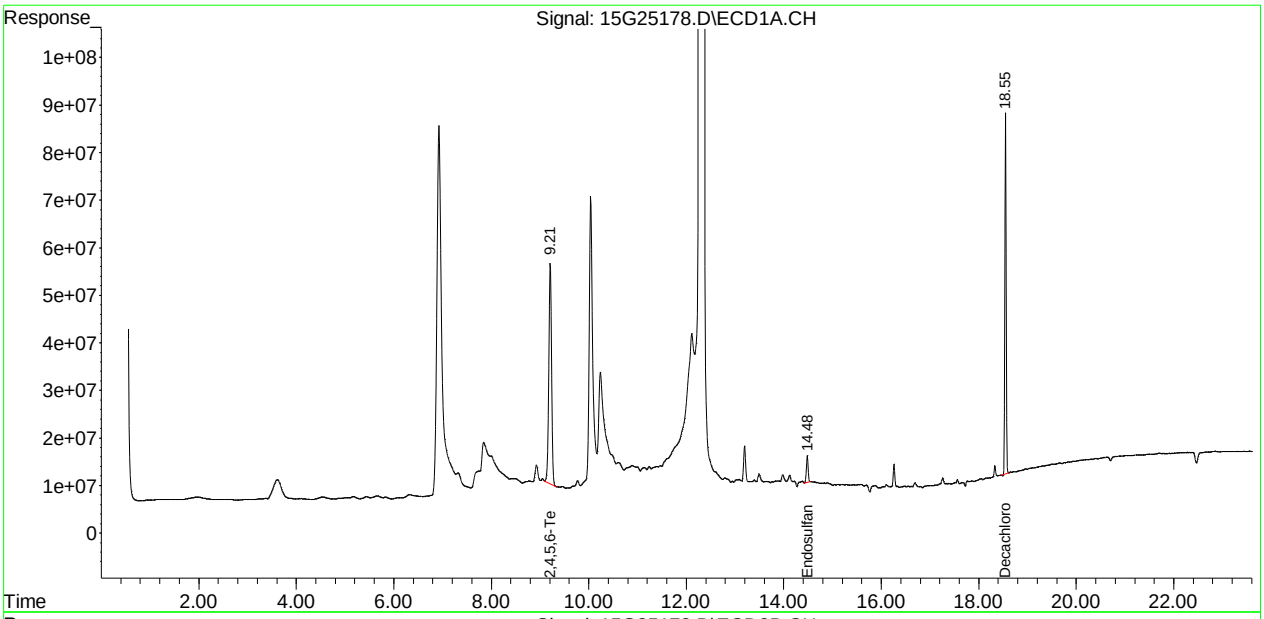
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	9.21	9.14	1823.3E6	1372.7E6	14.042	14.222	
	Spiked Amount	20.000	Range 29 - 133		Recovery =	70.21%	71.11%	
22) S	Decachlorobiphen	18.55	18.87	1399.7E6	962.5E6	15.740	15.031	
	Spiked Amount	20.000	Range 30 - 173		Recovery =	78.70%	75.16%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	12.05f	0	67506036	N.D.	0.527	#
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	14.48f	0.00	137.9E6	0	1.001	N.D.	#
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

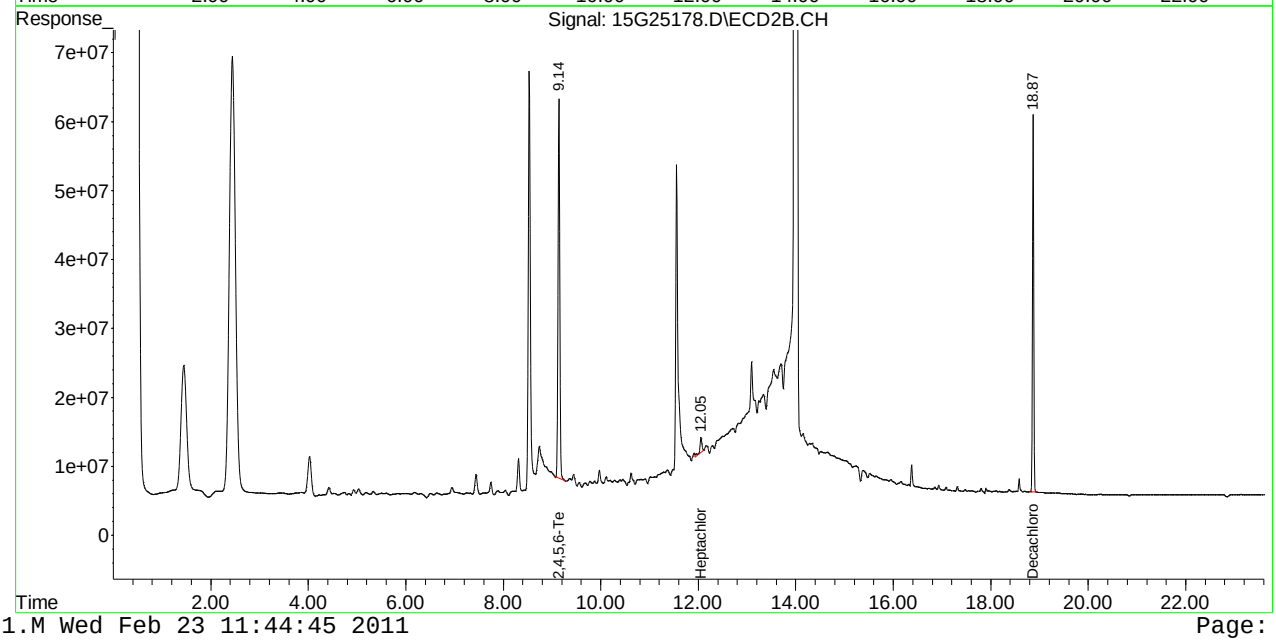
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25178.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 15:22 (#1); 22 Feb 2011 15:51 (#2)
Operator : ECL
Sample : WG356900-02 BLANK
Misc : 7,1 SOIL
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:04 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 2:38 (#1); 19 Feb 2011 3:06 (#2)
Operator : ECL
Sample : WG356905-02 LCS
Misc : 1,1 WATER
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:00:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.13	1804.3E6	1361.5E6	13.896	14.106
	Spiked Amount	20.000	Range 30 - 132		Recovery =	69.48%	70.53%
22) S	Decachlorobiphen	18.55	18.86	1078.5E6	783.5E6	12.128	12.235
	Spiked Amount	20.000	Range 36 - 144		Recovery =	60.64%	61.18%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	8396.2E6	6147.7E6	43.596	43.862
3)	gamma-BHC	11.16	11.23	8145.3E6	6180.1E6	45.557	45.676
4)	beta-BHC	11.35	11.41	3741.5E6	2707.3E6	47.587	45.462
5)	Heptachlor	12.10	12.08	7169.7E6	5462.3E6	41.617	42.652
6)	delta-BHC	11.69	11.98	8944.4E6	6295.4E6	49.826	45.742
7)	Aldrin	12.66	12.69	6276.1E6	5102.3E6	40.538	40.955
8)	Heptachlor Epoxi	13.77	13.74	6445.1E6	4717.7E6	41.419	45.561
9)	gamma-Chlordane	13.99	14.08	7264.0E6	5473.9E6	44.929	46.642
10)	alpha-Chlordane	14.23	14.34	6985.6E6	5312.7E6	46.137	46.651
11)	Endosulfan I	14.46	14.43	5328.9E6	3929.0E6	38.685	41.888
12)	4,4'-DDE	14.38	14.65	6669.3E6	5072.7E6	46.790	47.039
13)	Dieldrin	14.87	14.91	7074.6E6	5445.4E6	52.702	49.061
14)	Endrin	15.26	15.44	6872.5E6	5053.6E6	51.333	54.565
15)	4,4'-DDD	15.40	15.64	5603.9E6	4444.6E6	48.082	50.705
16)	Endosulfan II	15.64	15.80	5001.8E6	3908.7E6	40.614	41.385
17)	4,4'-DDT	15.87	16.15	6077.3E6	4198.5E6	51.669	47.594
18)	Endrin Aldehyde	16.31	16.33	3977.2E6	2886.6E6	40.473	41.456
19)	Endosulfan Sulfa	16.94	16.74	5748.4E6	3771.7E6	53.922	45.229
20)	Methoxychlor	16.61	17.13	2884.1E6	2237.1E6	50.519	52.905
21)	Endrin Ketone	17.32	17.45	5586.1E6	4110.9E6	47.439	47.614

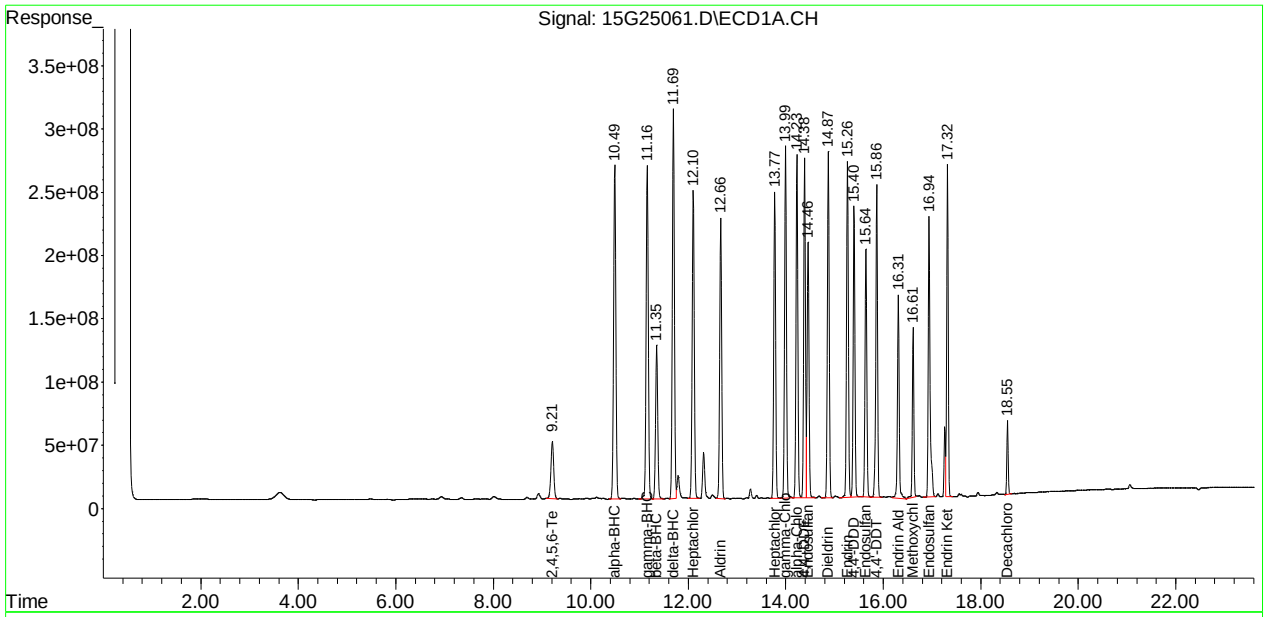
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 2:38 (#1); 19 Feb 2011 3:06 (#2)
Operator : ECL
Sample : WG356905-02 LCS
Misc : 1,1 WATER
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:00:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 15:51 (#1); 22 Feb 2011 16:19 (#2)
Operator : ECL
Sample : WG356900-03 LCS
Misc : 7,1 SOIL
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

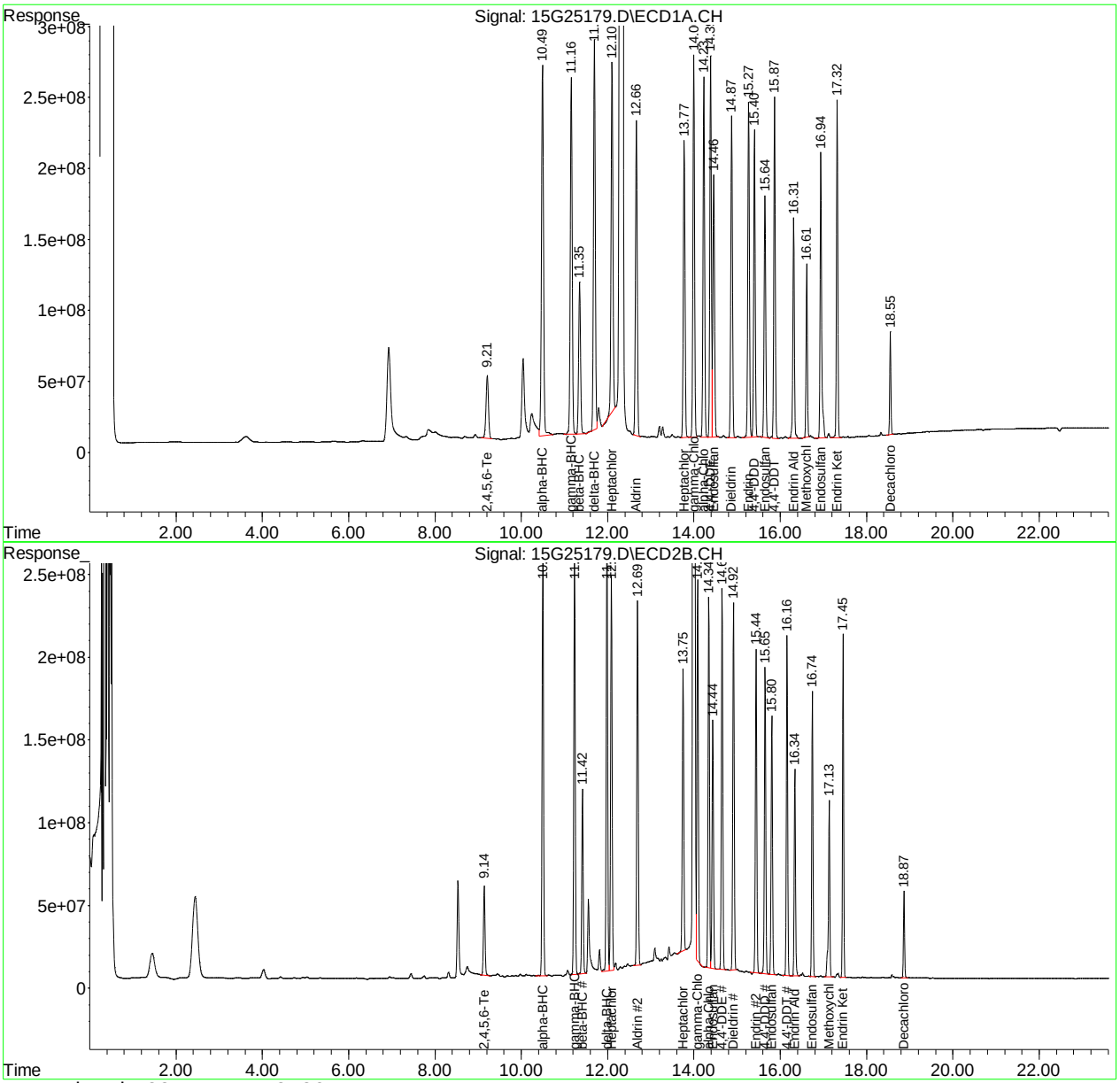
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.14	1748.4E6	1344.5E6	13.465	13.930
	Spiked Amount	20.000	Range 29 - 133		Recovery =	67.33%	69.65%
22) S	Decachlorobiphen	18.55	18.87	1317.4E6	935.5E6	14.814	14.609
	Spiked Amount	20.000	Range 30 - 173		Recovery =	74.07%	73.05%
	Target Compounds						
2)	alpha-BHC	10.49	10.50	8604.6E6	6243.2E6	44.678	44.544
3)	gamma-BHC	11.16	11.23	7677.8E6	6104.4E6	42.943	45.117
4)	beta-BHC	11.35	11.42	3270.7E6	2499.4E6	41.600	41.971
5)	Heptachlor	12.10	12.09	7257.9E6	5726.0E6	42.129	44.712
6)	delta-BHC	11.69	11.98	7952.6E6	6335.1E6	44.301	46.030
7)	Aldrin	12.67	12.69	6279.7E6	5158.8E6	40.561	41.408
8)	Heptachlor Epoxi	13.77	13.75	5674.6E6	4058.7E6	36.468	39.196
9)	gamma-Chlordane	14.00	14.08	6940.9E6	5120.9E6	42.930	43.634
10)	alpha-Chlordane	14.23	14.34	6451.3E6	5088.2E6	42.608	44.680
11)	Endosulfan I	14.46	14.44	4918.1E6	3434.2E6	35.703	36.613
12)	4,4'-DDE	14.39	14.65	6652.5E6	5090.8E6	46.672	47.208
13)	Dieldrin	14.87	14.92	6063.6E6	5091.4E6	45.171	45.872
14)	Endrin	15.27	15.44	6172.4E6	4455.5E6	46.104	48.107
15)	4,4'-DDD	15.40	15.65	5219.8E6	4133.9E6	44.786	47.161
16)	Endosulfan II	15.64	15.80	4432.5E6	3493.6E6	35.991	36.990
17)	4,4'-DDT	15.87	16.16	5550.8E6	4253.4E6	47.193	48.216
18)	Endrin Aldehyde	16.31	16.34	3703.2E6	2612.3E6	37.685	37.516
19)	Endosulfan Sulfa	16.94	16.74	4906.2E6	3382.2E6	46.022	40.558
20)	Methoxychlor	16.61	17.13	2533.3E6	2328.7E6	44.376	55.072
21)	Endrin Ketone	17.32	17.46	5085.5E6	3727.4E6	43.188	43.172

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25179.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 15:51 (#1); 22 Feb 2011 16:19 (#2)
Operator : ECL
Sample : WG356900-03 LCS
Misc : 7,1 SOIL
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 23 11:39:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Wed Feb 23 09:50:22 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 3:06 (#1); 19 Feb 2011 3:35 (#2)
Operator : ECL
Sample : WG356905-03 LCS DUP
Misc : 1,1 WATER
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:06:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

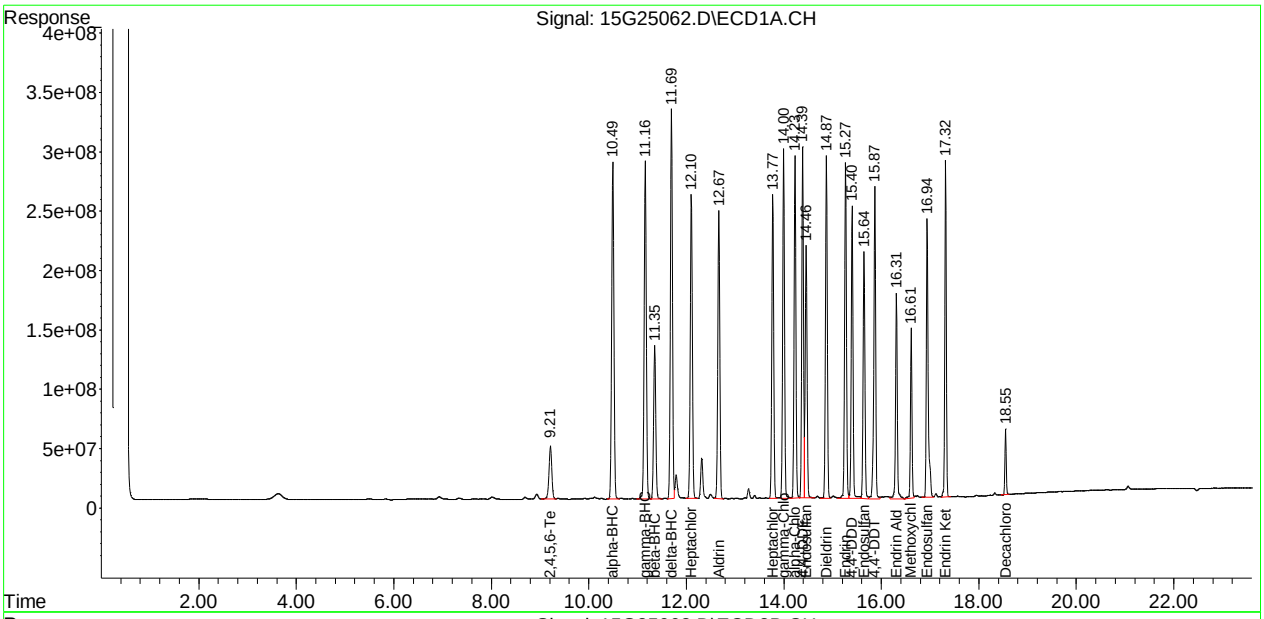
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	9.21	9.13	1790.3E6	1319.0E6	13.787	13.666
	Spiked Amount	20.000	Range 30 - 132		Recovery =	68.94%	68.33%
22) S	Decachlorobiphen	18.55	18.86	1002.5E6	735.5E6	11.273	11.486
	Spiked Amount	20.000	Range 36 - 144		Recovery =	56.36%	57.43%
	Target Compounds						
2)	alpha-BHC	10.49	10.49	9054.6E6	6621.1E6	47.015	47.240
3)	gamma-BHC	11.16	11.23	8680.6E6	6592.6E6	48.552	48.726
4)	beta-BHC	11.35	11.41	3980.7E6	2900.6E6	50.630	48.709
5)	Heptachlor	12.10	12.08	7557.0E6	5813.4E6	43.865	45.394
6)	delta-BHC	11.70	11.98	9535.4E6	6664.1E6	53.118	48.420
7)	Aldrin	12.67	12.69	6887.9E6	5608.1E6	44.490	45.015
8)	Heptachlor Epoxi	13.77	13.74	6794.6E6	4958.8E6	43.666	47.889
9)	gamma-Chlordane	14.00	14.08	7666.0E6	5799.7E6	47.415	49.418
10)	alpha-Chlordane	14.23	14.34	7372.9E6	5646.7E6	48.696	49.583
11)	Endosulfan I	14.46	14.43	5628.2E6	4133.3E6	40.858	44.066
12)	4,4'-DDE	14.39	14.65	7211.1E6	5504.5E6	50.591	51.044
13)	Dieldrin	14.87	14.91	7492.6E6	5725.8E6	55.816	51.587
14)	Endrin	15.27	15.43	7373.4E6	5304.5E6	55.075	57.274
15)	4,4'-DDD	15.40	15.64	6118.3E6	4720.7E6	52.496	53.855
16)	Endosulfan II	15.64	15.80	5388.5E6	4137.4E6	43.754	43.806
17)	4,4'-DDT	15.87	16.15	6811.6E6	4565.6E6	57.913	51.756
18)	Endrin Aldehyde	16.31	16.33	4306.7E6	3101.4E6	43.826	44.540
19)	Endosulfan Sulfa	16.94	16.74	6074.0E6	4006.6E6	56.976	48.046
20)	Methoxychlor	16.61	17.13	3106.0E6	2431.1E6	54.406	57.492m
21)	Endrin Ketone	17.32	17.45	5991.2E6	4427.4E6	50.880	51.280

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 3:06 (#1); 19 Feb 2011 3:35 (#2)
Operator : ECL
Sample : WG356905-03 LCS DUP
Misc : 1,1 WATER
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:06:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

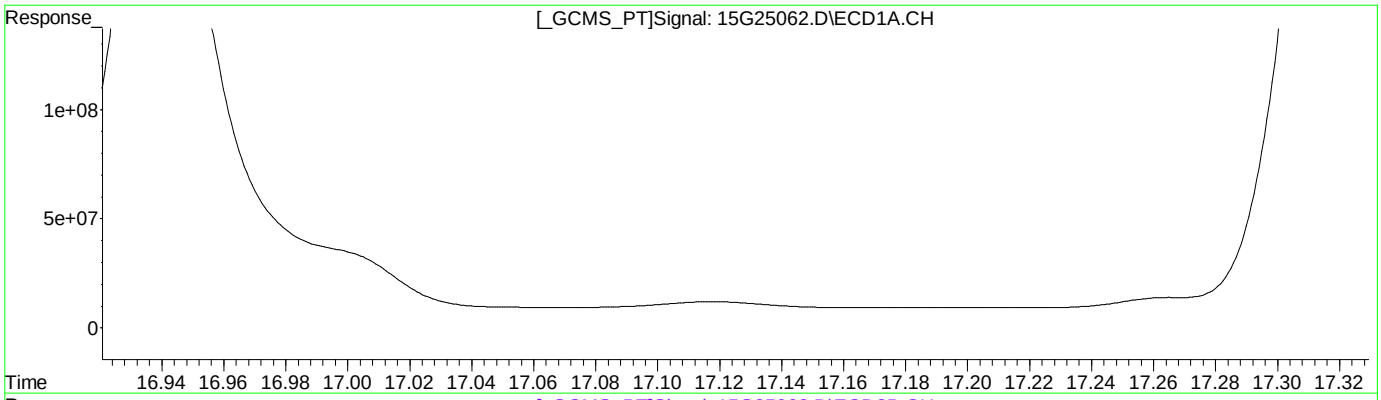


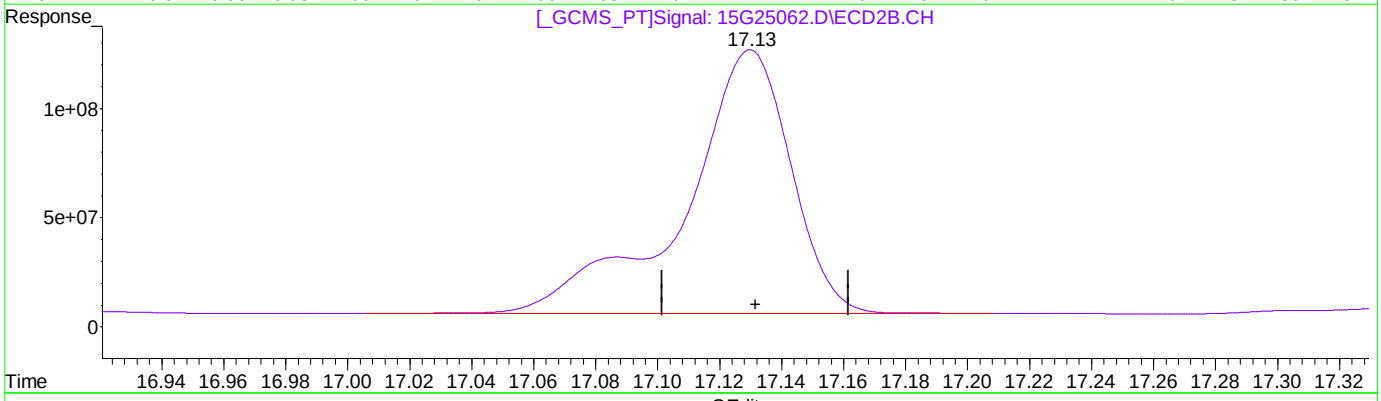
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Feb 2011   3:06 (#1); 19 Feb 2011   3:35 (#2)
Operator : ECL
Sample   : WG356905-03 LCS DUP
Misc   : 1,1 WATER
ALS Vial : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:06:04 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(20) Methoxychlor
16.61min 54.406UG/L
response 3105971588

(20) Methoxychlor #2
17.13min 68.061UG/L
response 2877966188

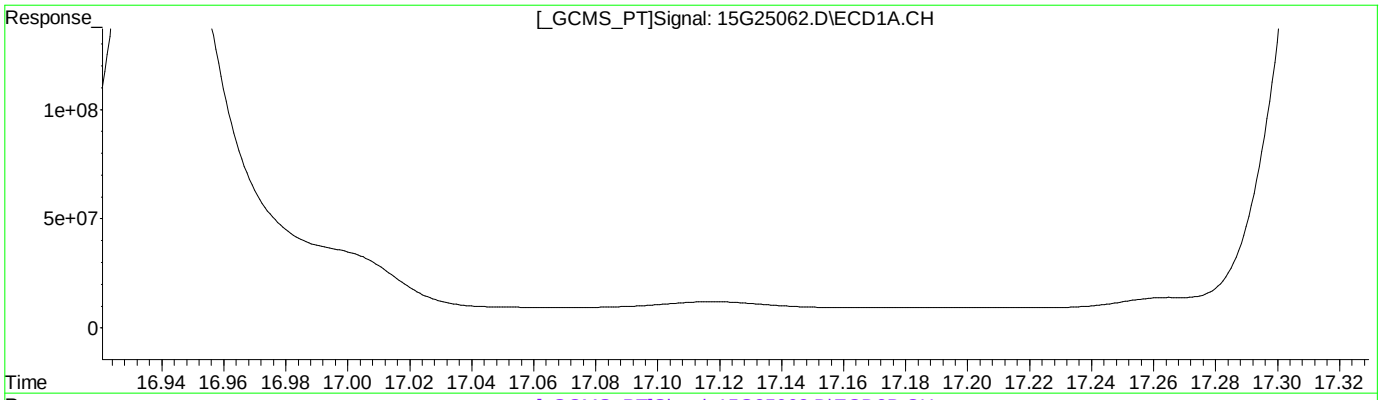
(+) = Expected Retention Time
8081.M Sat Feb 19 11:06:27 2011 Page: 1

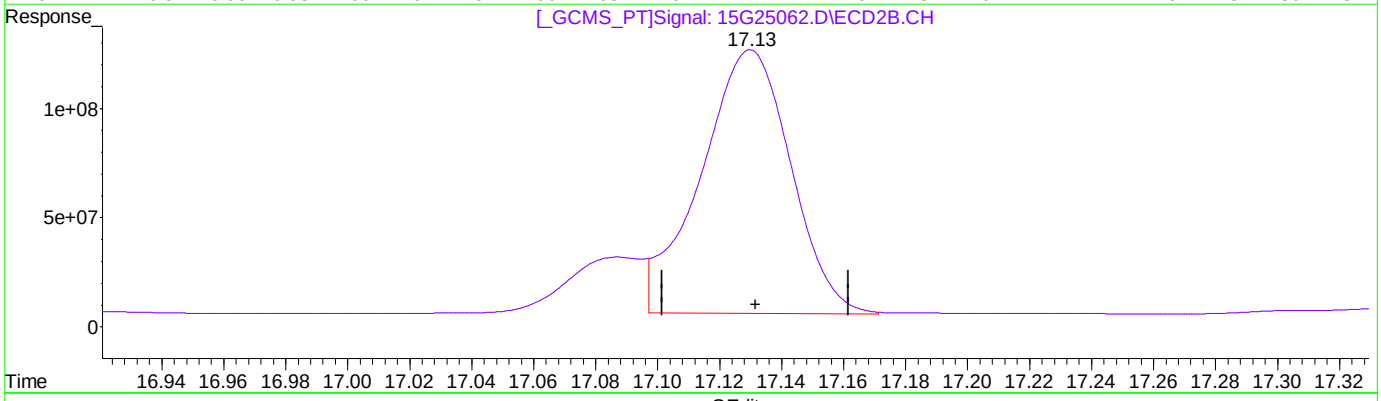
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\021811\
Data File : 15G25062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 19 Feb 2011   3:06 (#1); 19 Feb 2011   3:35 (#2)
Operator : ECL
Sample   : WG356905-03 LCS DUP
Misc   : 1,1 WATER
ALS Vial : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 19 11:06:04 2011
Quant Method : C:\MSDCHEM\1\METHODS\8081.M
Quant Title : HP15: 8081/608 CALIBRATION February 18, 2011
QLast Update : Sat Feb 19 10:52:08 2011
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :





QEdit

(20) Methoxychlor

16.61min 54.406UG/L

response 3105971588

(20) Methoxychlor #2

17.13min 57.492UG/L mint

response 2431055430

(+) = Expected Retention Time
8081.M Sat Feb 19 11:06:34 2011

Analyst: 02/19/2011 11:54 Supervisor: 02/21/2011 12:39

Page: 1

#2 - Data system splits the peak incorrectly or integrates a false peak as a rider peak

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25063.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 3:35 (#1); 19 Feb 2011 4:03 (#2)
Operator : ECL
Sample : WG356905-04 TOX LCS
Misc : 1,1 WATER
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 11:32:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.03	14.88	184.0E6	166.3E6	144.349	152.114
2)	L1 Toxaphene-2	15.83	15.93	823.9E6	1294.7E6	437.096	390.499
3)	L1 Toxaphene-3	16.80	16.73	516.6E6	174.0E6	152.903	172.800
4)	L1 Toxaphene-4	17.04	17.07	222.7E6	391.3E6	146.607	170.154
5)	L1 Toxaphene-5	17.49	17.58	222.4E6	143.9E6	158.360	163.774
	Sum Toxaphene-1			1969.7E6	2170.3E6	1039.315	1049.341
Average	Toxaphene-1					207.863	209.868

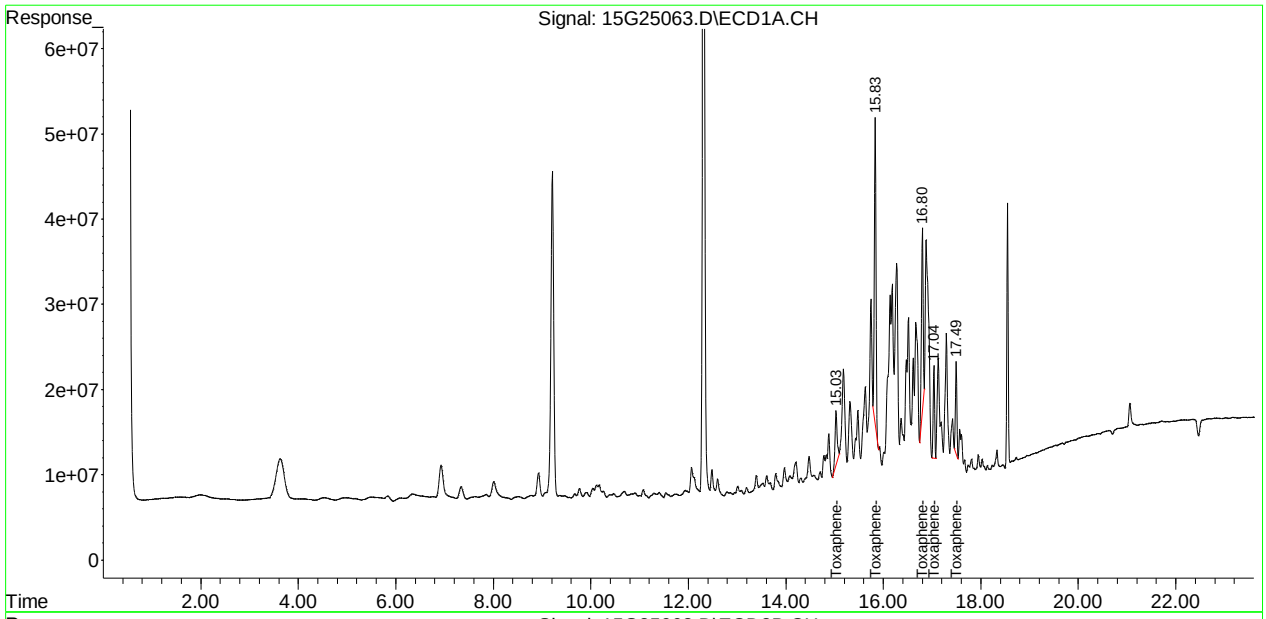
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

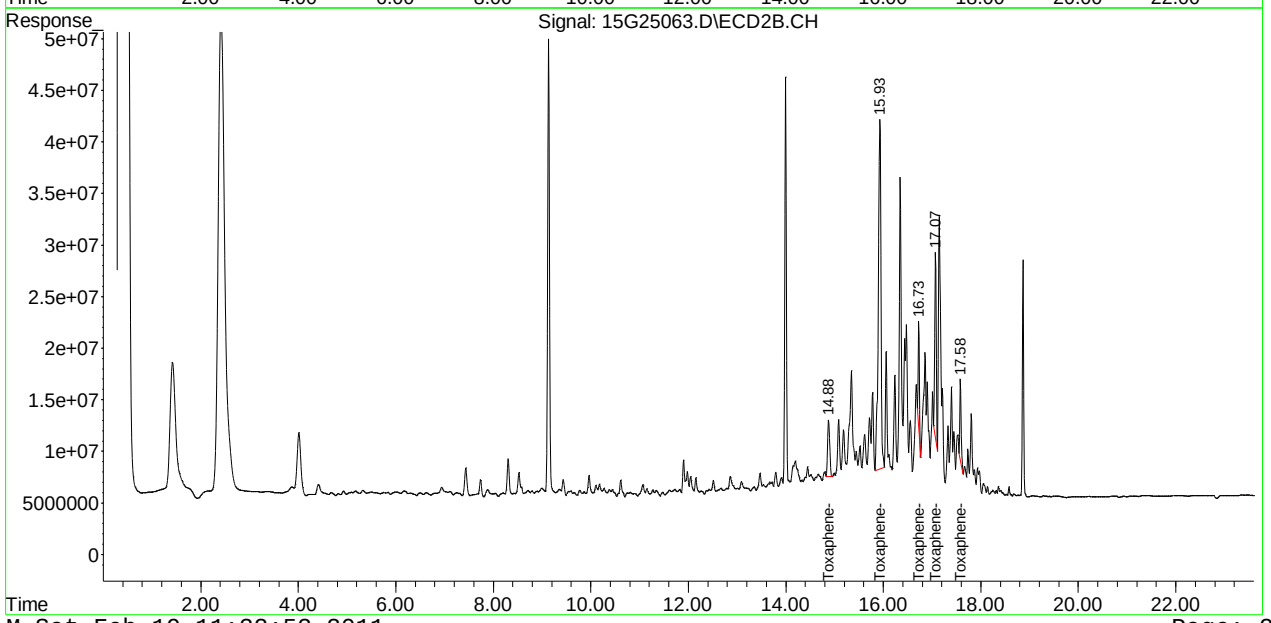
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\021811\
Data File : 15G25063.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Feb 2011 3:35 (#1); 19 Feb 2011 4:03 (#2)
Operator : ECL
Sample : WG356905-04 TOX LCS
Misc : 1,1 WATER
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 19 11:32:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25180.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 16:19 (#1); 22 Feb 2011 16:47 (#2)
Operator : ECL
Sample : WG356900-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 23 12:48:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 Toxaphene-1	15.03	14.88	168.0E6	155.5E6	131.762	142.214
2)	L1 Toxaphene-2	15.84	15.94	292.7E6	517.2E6	155.301	155.990
3)	L1 Toxaphene-3	16.80	16.73	496.0E6	159.6E6	146.813	158.515
4)	L1 Toxaphene-4	17.04	17.07	211.0E6	362.0E6	138.907	157.441
5)	L1 Toxaphene-5	17.50	17.58	206.0E6	139.8E6	146.622	159.108
	Sum Toxaphene-1			1373.7E6	1334.2E6	719.406	773.268
Average	Toxaphene-1					143.881	154.654

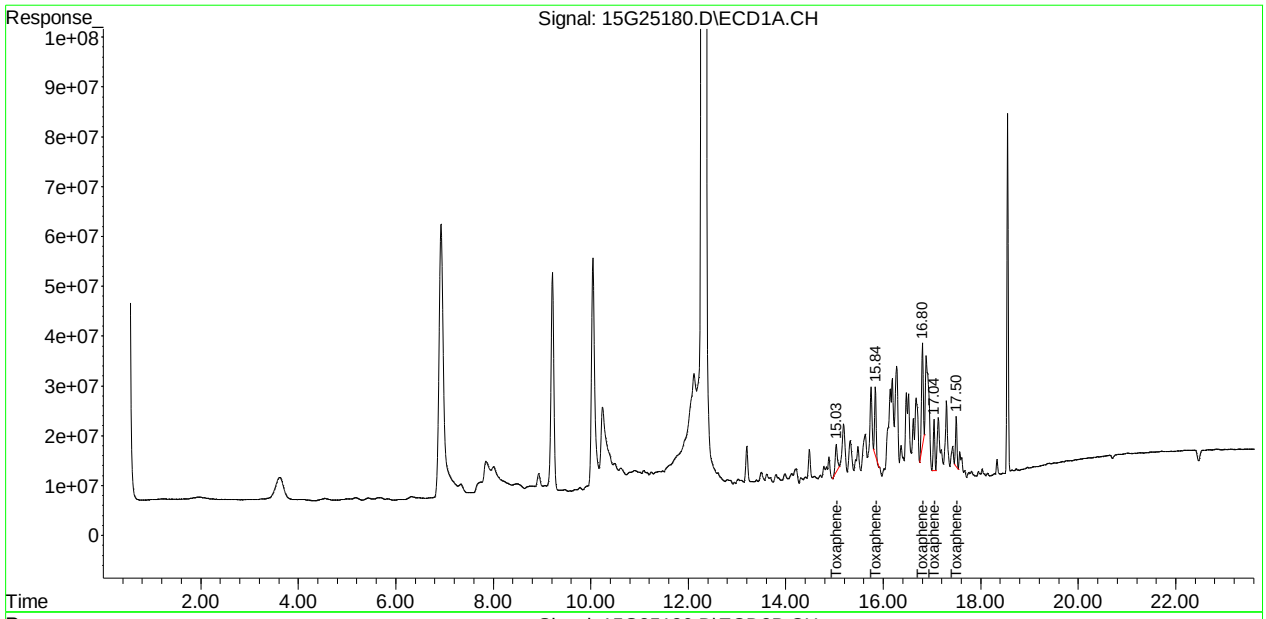
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

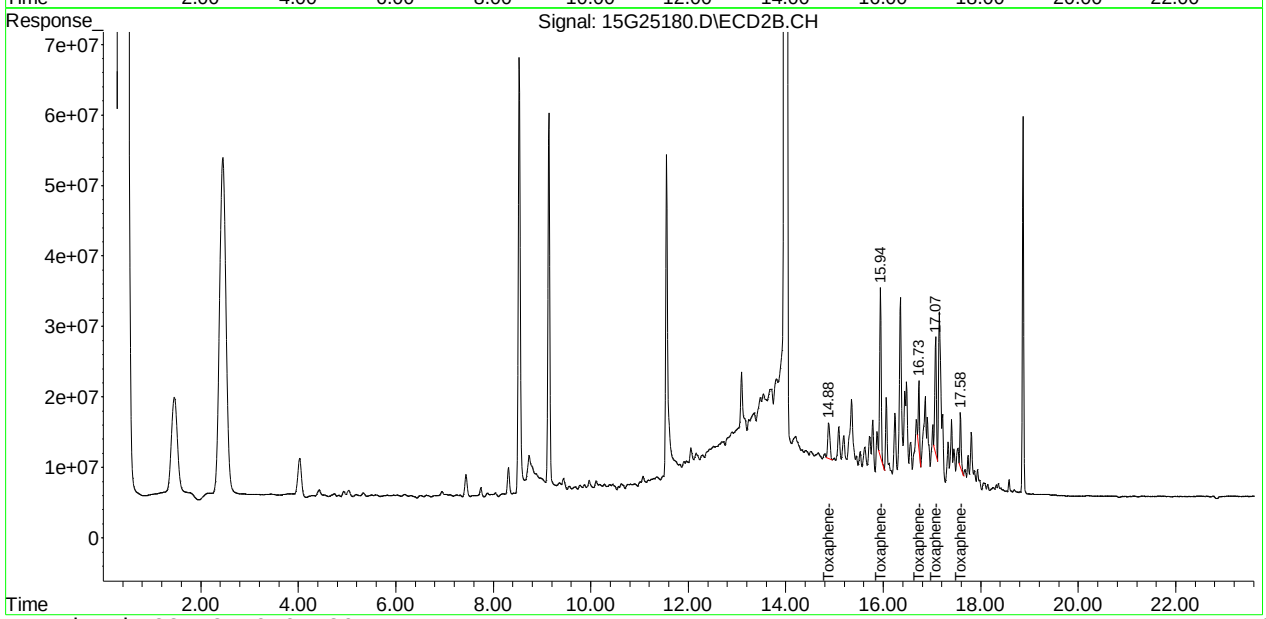
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\022211\
Data File : 15G25180.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Feb 2011 16:19 (#1); 22 Feb 2011 16:47 (#2)
Operator : ECL
Sample : WG356900-04 TOX LCS
Misc : 7,1 SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: .E
Integration File signal 2: EVENTS.E
Quant Time: Feb 23 12:48:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\TOX.M
Quant Title : HP15 CALIBRATION 8081 TOX February 18, 2011
QLast Update : Sat Feb 19 10:45:34 2011
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





2.1.3 PCB GC Data (8082)

2.1.3.1 Summary Data

Login Number: L11020447

Department: General Chromatography

Analyst: Eric Lawson

METHOD

Analysis SW-846 8082A

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Surrogates: Recoveries out of range were observed for the following analytes: Decachlorobiphenyl. Please see the applicable QC report for a detailed presentation of the failures.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 22062
Approved By: Mike Cochran

LABORATORY REPORT

L11020447

03/01/11 15:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SITE #1-TPS-2-16-11-COMP	L11020447-01	8082	1	17-FEB-11
SITE #1-2-16-11-DUP	L11020447-02	8082	1	17-FEB-11
SITE #1-2-16-11-MS	L11020447-03	8082	1	17-FEB-11
SITE #1-2-16-11-MSD	L11020447-04	8082	1	17-FEB-11
SITE #1-2-16-11-FB	L11020447-05	8082	1	17-FEB-11
SITE #1-2-16-11-CLAY-C	L11020447-06	8082	1	17-FEB-11
SITE #1-2-16-11-CLAY-C-2	L11020447-07	8082	1	17-FEB-11

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-01	PrePrep Method:	NONE	Instrument:	HP9
Client ID:	SITE #1-TPS-2-16-11-COMP	Prep Method:	3550B	Prep Date:	02/18/2011 09:37
Matrix:	Soil	Analytical Method:	8082	Cal Date:	02/18/2011 18:51
Workgroup Number:	WG357027	Analyst:	ECL	Run Date:	02/22/2011 00:04
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	9GR60499.R
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	19.1	9.56
Aroclor-1221	11104-28-2		U	19.1	9.56
Aroclor-1232	11141-16-5		U	19.1	9.56
Aroclor-1242	53469-21-9		U	19.1	9.56
Aroclor-1248	12672-29-6		U	19.1	9.56
Aroclor-1254	11097-69-1		U	19.1	9.56
Aroclor-1260	11096-82-5		U	19.1	9.56

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	77.2	29	133	
Decachlorobiphenyl	74.2	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-02	PrePrep Method:	NONE	Instrument:	HP9
Client ID:	SITE #1-2-16-11-DUP	Prep Method:	3550B	Prep Date:	02/18/2011 09:37
Matrix:	Soil	Analytical Method:	8082	Cal Date:	02/18/2011 18:51
Workgroup Number:	WG357027	Analyst:	ECL	Run Date:	02/21/2011 22:52
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	9GR60495.R
Sample Tag:	01	Units:	ug/kg	Percent Solid:	85.5

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	19.1	9.53
Aroclor-1221	11104-28-2		U	19.1	9.53
Aroclor-1232	11141-16-5		U	19.1	9.53
Aroclor-1242	53469-21-9		U	19.1	9.53
Aroclor-1248	12672-29-6		U	19.1	9.53
Aroclor-1254	11097-69-1		U	19.1	9.53
Aroclor-1260	11096-82-5		U	19.1	9.53

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	76.3	29	133	
Decachlorobiphenyl	68.8	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-03	PrePrep Method:	NONE	Instrument:	HP9
Client ID:	SITE #1-2-16-11-MS	Prep Method:	3550B	Prep Date:	02/18/2011 09:37
Matrix:	Soil	Analytical Method:	8082	Cal Date:	02/18/2011 18:51
Workgroup Number:	WG357027	Analyst:	ECL	Run Date:	02/22/2011 00:22
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	9GR60500.R
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2	76.0	Q	19.5	9.75
Aroclor-1221	11104-28-2		U	19.5	9.75
Aroclor-1232	11141-16-5		U	19.5	9.75
Aroclor-1242	53469-21-9		U	19.5	9.75
Aroclor-1248	12672-29-6		U	19.5	9.75
Aroclor-1254	11097-69-1		U	19.5	9.75
Aroclor-1260	11096-82-5	76.6	Q	19.5	9.75

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	60.2	29	133	
Decachlorobiphenyl	53.3	60	125	*

Q One or more quality control criteria failed. See narrative.
***** Surrogate or spike compound out of range
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-04	PrePrep Method:	NONE	Instrument:	HP9
Client ID:	SITE #1-2-16-11-MSD	Prep Method:	3550B	Prep Date:	02/18/2011 09:37
Matrix:	Soil	Analytical Method:	8082	Cal Date:	02/18/2011 18:51
Workgroup Number:	WG357027	Analyst:	ECL	Run Date:	02/22/2011 00:40
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	9GR60501.R
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2	88.9		19.4	9.70
Aroclor-1221	11104-28-2		U	19.4	9.70
Aroclor-1232	11141-16-5		U	19.4	9.70
Aroclor-1242	53469-21-9		U	19.4	9.70
Aroclor-1248	12672-29-6		U	19.4	9.70
Aroclor-1254	11097-69-1		U	19.4	9.70
Aroclor-1260	11096-82-5	92.0		19.4	9.70

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	70.7	29	133	
Decachlorobiphenyl	62.5	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG357014**
Collect Date: **02/16/2011 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3510C**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/L**

Instrument: **HP9**
Prep Date: **02/18/2011 09:01**
Cal Date: **02/18/2011 18:51**
Run Date: **02/21/2011 21:58**
File ID: **9GR60492.R**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	0.562	0.281
Aroclor-1221	11104-28-2		U	0.562	0.281
Aroclor-1232	11141-16-5		U	0.562	0.281
Aroclor-1242	53469-21-9		U	0.562	0.281
Aroclor-1248	12672-29-6		U	0.562	0.281
Aroclor-1254	11097-69-1		U	0.562	0.281
Aroclor-1260	11096-82-5		U	0.562	0.281

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-xylene	87.5	30	132	
Decachlorobiphenyl	80.3	40	135	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-06	PrePrep Method:	NONE	Instrument:	HP9
Client ID:	SITE #1-2-16-11-CLAY-C	Prep Method:	3550B	Prep Date:	02/18/2011 09:37
Matrix:	Soil	Analytical Method:	8082	Cal Date:	02/18/2011 18:51
Workgroup Number:	WG357027	Analyst:	ECL	Run Date:	02/22/2011 12:26
Collect Date:	02/16/2011 12:40	Dilution:	1	File ID:	9GR60509.R
Sample Tag:	01	Units:	ug/kg	Percent Solid:	81.7

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	20.2	10.1
Aroclor-1221	11104-28-2		U	20.2	10.1
Aroclor-1232	11141-16-5		U	20.2	10.1
Aroclor-1242	53469-21-9		U	20.2	10.1
Aroclor-1248	12672-29-6		U	20.2	10.1
Aroclor-1254	11097-69-1		U	20.2	10.1
Aroclor-1260	11096-82-5		U	20.2	10.1

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	83.8	29	133	
Decachlorobiphenyl	87.4	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-07	PrePrep Method:	NONE	Instrument:	HP9
Client ID:	SITE #1-2-16-11-CLAY-C-2	Prep Method:	3550B	Prep Date:	02/18/2011 09:37
Matrix:	Soil	Analytical Method:	8082	Cal Date:	02/18/2011 18:51
Workgroup Number:	WG357027	Analyst:	ECL	Run Date:	02/21/2011 23:28
Collect Date:	02/16/2011 12:45	Dilution:	1	File ID:	9GR60497.R
Sample Tag:	01	Units:	ug/kg	Percent Solid:	78.9

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	20.6	10.3
Aroclor-1221	11104-28-2		U	20.6	10.3
Aroclor-1232	11141-16-5		U	20.6	10.3
Aroclor-1242	53469-21-9		U	20.6	10.3
Aroclor-1248	12672-29-6		U	20.6	10.3
Aroclor-1254	11097-69-1		U	20.6	10.3
Aroclor-1260	11096-82-5		U	20.6	10.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	77.5	29	133	
Decachlorobiphenyl	85.6	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

2.1.3.2 QC Summary Data

Example 8082 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = \frac{As}{Cs}$$

where:	Example:
A_s = Area of the compound being measured in the standard	10000
C_s = Concentration of the compound being measured (ng/mL)	100
	RF = 100

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Vi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Vi = Initial volume of sample (mL). (prep log)	1000
	C(ug/L) = 0.1

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:*

$$C = \frac{(A_x)(Vf)(D)}{(RF)(Wi)}$$

where:	Example:
A_x = Area of the compound begin measured	10000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X=10)	1
RF = Response factor from ICAL calculated above.	100
Wi = Initial weight of sample (g).	30
	C(ug/kg) = 3.333333

* Concentrations appearing on instrument quantitation reports are on-column results and do not take into account initial volume, final volume and dilution factor.

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG356908
Analyst: RAH
Spike Analyst: RAH
Method: 3510C
Run Date: 02/18/2011 09:01
SOP: EXP01 Revison 13
Spike Witness: CPD
Surr Solution: STD43926

Methylene Chloride Lot #: COA15249
Hexane Lot #: COA15073
Sodium Sulfate,Anhydrous,Granular (Lot #: COA14988
Sulfuric Acid, Baker Analyzed ACS Lot #: COA15154
94:6 Hexane:Ether Lot #: RGT15669
Florisil Disposable Column Lot #: COA15102

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11020388-01	SAMP		N	8082	1000 mL	.2 mL			10 mL	Transparent
2	L11020447-05	SAMP		N	8082	890 mL	.2 mL			10 mL	Transparent
3	WG356908-01	BLANK		N	8082	1000 mL	.2 mL			10 mL	Transparent
4	WG356908-02	LCS		N	8082	1000 mL	.2 mL	.1 mL	STD43199	10 mL	Transparent
5	WG356908-03	LCS2		N	8082	1000 mL	.2 mL	.1 mL	STD43199	10 mL	Transparent

Due to insufficient sample volume, this preparation batch failed to include the method prescribed MS and MSD.

Clean-ups	
Florisil	3620B
Acid	3665A

Analyst: [signature]

Reviewer: Cheryl A. Flowers

EXTRACT - Modified 10/22/2008
PDF ID: 1923581
Report generated: 02/18/2011 14:30

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG356901
Analyst: CAF
Spike Analyst: CAF
Method: 3550B
Run Date: 02/18/2011 09:37
SOP: EXP02 Revison 15
Spike Witness: CPD
Surr Solution: STD43926

Hexane Lot #: COA15073
Purified Lab Sand Lot #: COA14882
Na2SO4, Anhydrous,Powder Lot #: COA14768
Sodium Sulfate,Anhydrous,Granular (Lot #: COA14988
Sulfuric Acid, Baker Analyzed ACS Lot #: COA15154
Florisil Disposable Column Lot #: COA15102
94:6 Hexane:Ether Lot #: RGT15669

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11020447-01	RS01			8082	30.82 g	.2 mL			10 mL	Transparent
2	L11020447-02	SAMP			8082	30.35 g	.2 mL			10 mL	Transparent
3	L11020447-03	MS01	L11020447-01		8082	30.23 g	.2 mL	.1 mL	STD43199	10 mL	Transparent
4	L11020447-04	SD01	L11020447-01		8082	30.36 g	.2 mL	.1 mL	STD43199	10 mL	Transparent
5	L11020447-06	SAMP			8082	30.02 g	.2 mL			10 mL	Transparent
6	L11020447-07	SAMP			8082	30.5 g	.2 mL			10 mL	Transparent
7	L11020482-01	SAMP			8082	30.41 g	.2 mL			10 mL	Colored
8	WG356901-01	REF	L11020447-01		8082	30.82 g	.2 mL			10 mL	Transparent
9	WG356901-02	BLANK			8082	30 g	.2 mL			10 mL	Transparent
10	WG356901-03	LCS			8082	30 g	.2 mL	.1 mL	STD43199	10 mL	Transparent
11	WG356901-04	MS	L11020447-01		8082	30.23 g	.2 mL	.1 mL	STD43199	10 mL	Transparent
12	WG356901-05	MSD	L11020447-01		8082	30.36 g	.2 mL	.1 mL	STD43199	10 mL	Transparent

L11020482-01	DEBRIS PILE

Clean-ups	
Florisil	3620B
Acid	3665A

Analyst: Cheryl A. Flowers

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 1923889
Report generated: 02/18/2011 16:21

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP9 Dataset: 062310
Analyst1: ECL Analyst2: NA
Method: 8082 SOP: GCS10 Rev: 12

Maintenance Log ID: 33520 Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD37054 LCS STD: STD37752
Internal STD: NA Surrogate STD: STD39048 Calibration STD

Comments: CONFIRMATIONS ONLY

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	9GR57250.R	WG335137-01 1660 ICAL 2000 PPB	1	1	STD37054	06/23/10 14:08
2	9GR57251.R	WG335137-02 1660 ICAL 1000 PPB	1	1	STD37054	06/23/10 14:26
3	9GR57252.R	WG335137-03 1660 ICAL 500 PPB	1	1	STD37054	06/23/10 14:44
4	9GR57253.R	WG335137-04 1660 ICAL 250 PPB	1	1	STD37054	06/23/10 15:02
5	9GR57254.R	WG335137-05 1660 ICAL 100 PPB	1	1	STD37054	06/23/10 15:21
6	9GR57255.R	WG335137-06 1660 ICAL 50 PPB	1	1	STD37054	06/23/10 15:39
7	9GR57256.R	WG335137-07 1660 ALT 250 PPB	1	1	STD38445	06/23/10 15:57
8	9GR57257.R	WG335138-01 1254 ICAL 2000 PPB	1	1	STD38442	06/23/10 16:15
9	9GR57258.R	WG335138-02 1254 ICAL 1000 PPB	1	1	STD38442	06/23/10 16:33
10	9GR57259.R	WG335138-03 1254 ICAL 500 PPB	1	1	STD38442	06/23/10 16:51
11	9GR57260.R	WG335138-04 1254 ICAL 250 PPB	1	1	STD38442	06/23/10 17:09
12	9GR57261.R	WG335138-05 1254 ICAL 100 PPB	1	1	STD38442	06/23/10 17:27
13	9GR57262.R	WG335138-06 1254 ICAL 50 PPB	1	1	STD38442	06/23/10 17:45
14	9GR57263.R	WG335138-07 1254 ALT 500 PPB	1	1	STD38446	06/23/10 18:03
15	9GR57264.R	1248 500 PPB	1	1	STD38443	06/23/10 18:21
16	9GR57265.R	1248 ALT 500 PPB	1	1	STD37194	06/23/10 18:39
17	9GR57266.R	1242 500 PPB	1	1	STD38444	06/23/10 18:57
18	9GR57267.R	1242 ALT 500 PPB	1	1	STD38447	06/23/10 19:15
19	9GR57268.R	1232 500 PPB	1	1	STD37192	06/23/10 19:33
20	9GR57269.R	1232 ALT 500 PPB	1	1	STD37195	06/23/10 19:51
21	9GR57270.R	1221 500 PPB	1	1	STD37193	06/23/10 20:09
22	9GR57271.R	1221 ALT 500 PPB	1	1	STD38445	06/23/10 20:27
23	9GR57272.R	WG335181-01 1660 CCV 500 PPB	1	1	STD37054	06/23/10 20:45
49	9GR57273.R	WG334786-03 1660 MRL 50 PPB	7	1	STD37054	06/23/10 21:03
25	9GR57274.R	WG334289-01 BLANK	7	1	SOIL	06/23/10 21:21
26	9GR57275.R	WG334289-02 LCS	7	1	SOIL	06/23/10 21:39
27	9GR57276.R	WG334289-03 LCS DUP	7	1	SOIL	06/23/10 21:57
28	9GR57277.R	L10060255-01 CF	7	1	SOIL	06/23/10 22:15
29	9GR57278.R	L10060255-02 CF	7	1	SOIL	06/23/10 22:33
30	9GR57279.R	L10060255-03 CF	7	1	SOIL	06/23/10 22:51
31	9GR57280.R	L10060255-04 CF	7	1	SOIL	06/23/10 23:09
32	9GR57281.R	L10060255-05 CF	7	1	SOIL	06/23/10 23:27
33	9GR57282.R	L10060255-06 CF	7	1	SOIL	06/23/10 23:45
34	9GR57283.R	L10060255-07 CF	7	1	SOIL	06/24/10 00:02

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP9 Dataset: 062310
Analyst1: ECL Analyst2: NA
Method: 8082 SOP: GCS10 Rev: 12

Maintenance Log ID: 33520 Syringe Filter Lot#:
Column 1 ID: Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD37054 LCS STD: STD37752
Internal STD: NA Surrogate STD: STD39048

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
35	9GR57284.R	WG335182-01 1254 CCV 500 PPB	1	1	STD38442	06/24/10 00:20
36	9GR57285.R	WG335181-02 1660 CCV 250 PPB	1	1	STD37054	06/24/10 00:38
37	9GR57286.R	L10060255-08 CF	7	1	SOIL	06/24/10 00:56
38	9GR57287.R	L10060283-03 CF	7	1	SOIL	06/24/10 01:14
39	9GR57288.R	L10060283-04 CF	7	1	SOIL	06/24/10 01:32
40	9GR57289.R	L10060320-01 CF	7	1	SOIL	06/24/10 01:50
41	9GR57290.R	L10060320-02 CF	7	1	SOIL	06/24/10 02:08
42	9GR57291.R	WG334658-01 BLANK	7	1	SOIL	06/24/10 02:26
43	9GR57292.R	WG334658-02 LCS	7	1	SOIL	06/24/10 02:44
44	9GR57293.R	WG334658-03 LCS DUP	7	1	SOIL	06/24/10 03:02
45	9GR57294.R	L10060493-01 CF	7	1	SOIL	06/24/10 03:20
46	9GR57295.R	WG335182-02 1254 CCV 500 PPB	1	1	STD38442	06/24/10 03:38
47	9GR57296.R	WG335181-03 1660 CCV 500 PPB	1	1	STD37054	06/24/10 03:56
50	9GR57297.R	WG334786-04 1660 MRL 50 PPB	7	1	STD37054	06/24/10 04:14

Comments

Seq.	Rerun	Dil.	Reason	Analytes
28				
	L10060255-01 CF: DCB surrogate failed high due to SMI.			
29				
	L10060255-02 CF: DCB surrogate failed high due to SMI.			
38				
	L10060283-03 CF: DCB surrogate failed high due to SMI.			
39				
	L10060283-04 CF: DCB surrogate failed low due to SMI.			
40				
	L10060320-01 CF: DCB surrogate failed high due to SMI.			

Page: 2 Approved: 24-JUN-10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP9 Dataset: 021811
Analyst1: ECL Analyst2: NA
Method: 8082 SOP: GCS10 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:
Column 1 ID: Column 2 ID: NA
Workgroups:

CCV Std: STD43286 LCS STD:
Internal STD: NA Surrogate STD: NA Calibration STD:

Comments: ICAL ONLY

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	9GR60430.R	1660 10 PPM	1	1	STD43286	02/18/11 13:10
2	9GR60431.R	1660 CCV 500 PPB	1	1	STD43286	02/18/11 13:28
3	9GR60432.R	1660 CCV 500 PPB	1	1	STD43286	02/18/11 13:54
4	9GR60433.R	1660 CCV 500 PPB	1	1	STD43286	02/18/11 14:13
5	9GR60435.R	WG357030-01 1660 ICAL 2000 PPB	1	1	STD43286	02/18/11 17:22
6	9GR60436.R	WG357030-02 1660 ICAL 1000 PPB	1	1	STD43286	02/18/11 17:39
7	9GR60437.R	WG357030-03 1660 ICAL 500 PPB	1	1	STD43286	02/18/11 17:57
8	9GR60438.R	WG357030-04 1660 ICAL 250 PPB	1	1	STD43286	02/18/11 18:15
9	9GR60439.R	WG357030-05 1660 ICAL 100 PPB	1	1	STD43286	02/18/11 18:33
10	9GR60440.R	WG357030-06 1660 ICAL 50 PPB	1	1	STD43286	02/18/11 18:51
11	9GR60441.R	WG357030-07 1660 ALT 250 PPB	1	1	STD42874	02/18/11 19:09
12	9GR60442.R	1254 500 PPB	1	1	STD42875	02/18/11 19:27
13	9GR60443.R	1254 ALT 500 PPB	1	1	STD42883	02/18/11 19:45
14	9GR60444.R	1248 500 PPB	1	1	STD42876	02/18/11 20:03
15	9GR60445.R	1248 ALT 500 PPB	1	1	STD42884	02/18/11 20:21
16	9GR60446.R	1242 500 PPB	1	1	STD42877	02/18/11 20:39
17	9GR60447.R	1242 ALT 500 PPB	1	1	STD42885	02/18/11 20:57
18	9GR60448.R	1232 500 PPB	1	1	STD42881	02/18/11 21:15
19	9GR60449.R	1232 ALT 500 PPB	1	1	STD42886	02/18/11 21:33
20	9GR60450.R	1221 500 PPB	1	1	STD42882	02/18/11 21:51
21	9GR60451.R	1221 ALT 500 PPB	1	1	STD42887	02/18/11 22:09

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
	1660 CCV 500 PPB: Failed low.			
3				
	1660 CCV 500 PPB: Failed low.			
4				
	1660 CCV 500 PPB: Failed low. Needs recalibrated.			

Page: 1 Approved: 21-FEB-11

Cassie L. Augenstein

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP9 Dataset: 022111
Analyst1: ECL Analyst2: NA
Method: 8082 SOP: GCS10 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD43286 LCS STD: STD43199
Internal STD: NA Surrogate STD: STD43926 Calibration STD:

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	9GR60465.R	1660 10 PPM	1	1	STD43286	02/21/11 13:06
2	9GR60466.R	WG357031-03 1660 CCV 500 PPB	1	1	STD43286	02/21/11 13:24
3	9GR60467.R	WG356391-03 LCS DUP	7	1	SOIL	02/21/11 14:28
4	9GR60468.R	L11010361-30 CF	7	1	SOIL	02/21/11 14:46
5	9GR60469.R	L11010361-32 CF	7	1	SOIL	02/21/11 15:04
6	9GR60470.R	L11010361-40 CF	7	1	SOIL	02/21/11 15:22
7	9GR60471.R	L11010361-41 CF	7	1	SOIL	02/21/11 15:40
8	9GR60472.R	L11010361-42 CF	7	1	SOIL	02/21/11 15:58
9	9GR60473.R	WG356828-01 BLANK	7	1	SOIL	02/21/11 16:16
10	9GR60474.R	WG356828-02 LCS	7	1	SOIL	02/21/11 16:34
11	9GR60475.R	WG356828-03 LCS DUP	7	1	SOIL	02/21/11 16:52
12	9GR60476.R	L11010361-09 RE	7	1	SOIL	02/21/11 17:10
13	9GR60477.R	WG357031-04 1660 CCV 250 PPB	1	1	STD43286	02/21/11 17:28
14	9GR60478.R	L11010361-10 RE	7	1	SOIL	02/21/11 17:46
15	9GR60479.R	L11010361-12 RE	7	1	SOIL	02/21/11 18:04
16	9GR60480.R	L11010361-13 RE	7	1	SOIL	02/21/11 18:22
17	9GR60481.R	L11010361-14 RE	7	1	SOIL	02/21/11 18:40
18	9GR60482.R	L11010361-31 RE	7	1	SOIL	02/21/11 18:58
19	9GR60483.R	L11010361-36 RE	7	1	SOIL	02/21/11 19:16
20	9GR60484.R	L11010361-39 RE	7	1	SOIL	02/21/11 19:34
21	9GR60485.R	L11020378-01	10	1	SOIL	02/21/11 19:52
22	9GR60486.R	WG356908-01 BLANK	1	1		02/21/11 20:10
23	9GR60487.R	WG357031-05 1660 CCV 500 PPB	1	1	STD43286	02/21/11 20:28
24	9GR60488.R	WG356908-02 LCS	1	1		02/21/11 20:46
43	9GR60489.R	WG356908-03 LCS DUP	1	1		02/21/11 21:04
26	9GR60490.R	L11020388-01	1	1		02/21/11 21:22
27	9GR60491.R	L11020388-01 10x	1	10		02/21/11 21:40
28	9GR60492.R	L11020447-05	1	10		02/21/11 21:58
29	9GR60493.R	WG356901-02 BLANK	7	1	SOIL	02/21/11 22:16
30	9GR60494.R	WG356901-03 LCS	7	1	SOIL	02/21/11 22:34
31	9GR60495.R	L11020447-02	7	1	SOIL	02/21/11 22:52
32	9GR60496.R	L11020447-06	7	1	SOIL	02/21/11 23:10
33	9GR60497.R	L11020447-07	7	1	SOIL	02/21/11 23:28
34	9GR60498.R	WG357031-06 1660 CCV 250 PPB	1	1	STD43286	02/21/11 23:46

Page: 1 Approved: 22-FEB-11

Cassie D. Augenstein

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP9 Dataset: 022111
Analyst1: ECL Analyst2: NA
Method: 8082 SOP: GCS10 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:
Column 1 ID: Column 2 ID: RTX-CLP2
Workgroups:

CCV Std: STD43286 LCS STD: STD43199
Internal STD: NA Surrogate STD: STD43926

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
44	9GR60499.R	L11020447-01 REF	7	1	SOIL	02/22/11 00:04
45	9GR60500.R	L11020447-03 MS	7	1	SOIL	02/22/11 00:22
46	9GR60501.R	L11020447-04 MSD	7	1	SOIL	02/22/11 00:40
38	9GR60502.R	L11020482-01	10	1	SOIL	02/22/11 00:58
39	9GR60503.R	HEXANE	1	1		02/22/11 01:16
40	9GR60504.R	HEXANE	1	1		02/22/11 01:34
41	9GR60505.R	HEXANE	1	1		02/22/11 01:52
42	9GR60506.R	WG357031-07 1660 CCV 500 PPB	1	1	STD43286	02/22/11 02:10

Comments

Seq.	Rerun	Dil.	Reason	Analytes
12				
	L11010361-09 RE: DCB surrogate failed low.			
14				
	L11010361-10 RE: DCB surrogate failed low.			
15				
	L11010361-12 RE: DCB surrogate failed low.			
16				
	L11010361-13 RE: DCB surrogate failed low.			
17				
	L11010361-14 RE: DCB surrogate failed low.			
18				
	L11010361-31 RE: DCB surrogate failed low.			
26	X	10	Over Calibration Range	Aroclors 1260 and 1242
	L11020388-01			
32	X			
	L11020447-06: Bad injection. Not reported.			
45				
	L11020447-03 MS: DCB surrogate failed low.			
38	X	50	Over Calibration Range	Aroclor 1242
	L11020482-01: DCB surrogate failed high due to SMI. Also needs 5x dilution for aroclor 1260.			

Page: 2 Approved: 22-FEB-11

Cassie D. Augenstein

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP9 Dataset: 022211
Analyst1: ECL Analyst2: NA
Method: 8082 SOP: GCS10 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD43286 LCS STD: STD43199
Internal STD: NA Surrogate STD: STD43926 Calibration STD:

Comments: All samples from file 9GR60524 to the end need rerun due to CCV failures.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	9GR60507.R	1660 10 PPM	1	1	STD43286	02/22/11 10:53
2	9GR60508.R	WG357211-01 1660 CCV 500 PPB	1	1	STD43286	02/22/11 11:11
3	9GR60509.R	L11020447-06	7	1	SOIL	02/22/11 12:26
4	9GR60510.R	WG357063-02 BLANK	7	1	SOIL	02/22/11 12:44
5	9GR60511.R	WG357063-03 LCS	7	1	SOIL	02/22/11 13:02
6	9GR60512.R	L11020506-01	10	1	SOIL	02/22/11 13:20
7	9GR60513.R	L11020506-02 MS	10	1	SOIL	02/22/11 13:38
8	9GR60514.R	L11020506-03 MSD	10	1	SOIL	02/22/11 13:56
9	9GR60515.R	L11020506-04	7	1	SOIL	02/22/11 14:14
10	9GR60516.R	L11020506-05	7	1	SOIL	02/22/11 14:32
11	9GR60517.R	L11020506-06	7	1	SOIL	02/22/11 14:50
12	9GR60518.R	L11020506-14	7	1	SOIL	02/22/11 15:08
13	9GR60519.R	HEXANE	1	1		02/22/11 15:26
14	9GR60520.R	WG357211-02 1660 CCV 250 PPB	1	1	STD43286	02/22/11 15:44
15	9GR60521.R	L11020518-01	10	1	SOIL	02/22/11 16:03
16	9GR60522.R	L11020535-01	10	1	SOIL	02/22/11 16:21
17	9GR60523.R	L11020506-17	7	1	SOIL	02/22/11 16:39
18	9GR60524.R	WG357085-01 BLANK	1	1		02/22/11 16:57
19	9GR60525.R	WG357085-02 LCS	1	1		02/22/11 17:15
20	9GR60526.R	WG357085-03 LCS DUP	1	1		02/22/11 17:33
21	9GR60527.R	L11020492-02	1	1		02/22/11 17:51
22	9GR60528.R	L11020517-01	1	1		02/22/11 18:08
23	9GR60529.R	WG357211-03 1660 CCV 500 PPB	1	1	STD43286	02/22/11 18:27
24	9GR60530.R	L11020482-01 50x	10	50	SOIL	02/22/11 18:44
25	9GR60531.R	HEXANE	1	1		02/22/11 19:03
26	9GR60532.R	HEXANE	1	1		02/22/11 19:20
27	9GR60533.R	L11020482-01 5x	10	5	SOIL	02/22/11 19:39
28	9GR60534.R	HEXANE	1	1		02/22/11 19:57
29	9GR60535.R	HEXANE	1	1		02/22/11 20:15
30	9GR60536.R	HEXANE	1	1		02/22/11 20:33
31	9GR60537.R	L11020491-01 20x	10	20	SOIL	02/22/11 20:51
32	9GR60538.R	HEXANE	1	1		02/22/11 21:09
33	9GR60539.R	WG357211-04 1660 CCV 250 PPB	1	1	STD43286	02/22/11 21:27

Comments

Page: 1 Approved: 23-FEB-11

Cassie L. Augenstein

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP9 Dataset: 022211
Analyst1: ECL Analyst2: NA
Method: 8082 SOP: GCS10 Rev: 12

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP2

Workgroups:

CCV Std: STD43286 LCS STD: STD43199
Internal STD: NA Surrogate STD: STD43926

Comments

Seq.	Rerun	Dil.	Reason	Analytes
6	X	10	Over Calibration Range	Aroclor 1254
	L11020506-01			
7				
	L11020506-02 MS: Aroclors 1016 and 1260 failed high due to SMI.			
8				
	L11020506-03 MSD: Aroclors 1016 and 1260 failed high due to SMI.			
23				
	WG357211-03 1660 CCV 500 PPB: Aroclor 1260 failed high.			
33				
	WG357211-04 1660 CCV 250 PPB: Aroclor 1260 failed high.			

Page: 2 Approved: 23-FEB-11

Cassie D. Augenstein

Microbac Laboratories Inc.

Data Checklist

Date: 23-JUN-2010
Analyst: ECL
Analyst: NA
Method: 8082
Instrument: HP9
Curve Workgroup: NA
Runlog ID: 34916
Analytical Workgroups: L10060255, L10060283, L10060320, L10060493

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
24-JUN-2010

Secondary Reviewer:
24-JUN-2010

CHECKLIST1 - Modified 03/05/2008
Generated: JUN-24-2010 11:05:22

Microbac Laboratories Inc.

Data Checklist

Date: 18-FEB-2011
Analyst: ECL
Analyst: NA
Method: 8082
Instrument: HP9
Curve Workgroup: NA
Runlog ID: 39115
Analytical Workgroups: ICAL ONLY

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	NA
TCL hits	NA
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	NA
TCL hits	NA
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	NA
Project/client specific requirements	NA
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	NA
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	CAA

Primary Reviewer:
19-FEB-2011

Secondary Reviewer:
21-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-21-2011 12:34:31

Microbac Laboratories Inc.

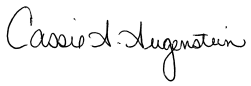
Data Checklist

Date: 21-FEB-2011
Analyst: ECL
Analyst: NA
Method: 8082
Instrument: HP9
Curve Workgroup: NA
Runlog ID: 39140
Analytical Workgroups: L11010361, L11020378, L11020388, L11020447, L11020482

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	NA
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	CAA

Primary Reviewer:
22-FEB-2011

Secondary Reviewer:
22-FEB-2011



CHECKLIST1 - Modified 03/05/2008
Generated: FEB-22-2011 11:21:31

Microbac Laboratories Inc.

Data Checklist

Date: 22-FEB-2011
Analyst: ECL
Analyst: NA
Method: 8082
Instrument: HP9
Curve Workgroup: NA
Runlog ID: 39164
Analytical Workgroups: L11020447, L11020506, L11020518, L11020535

ANALYTICAL	
System Performance Check	NA
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	X
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	NA
Manual integrations	NA
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ECL
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	CAA

Primary Reviewer:
23-FEB-2011

Secondary Reviewer:
23-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-23-2011 12:28:35

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 8082 AAB#: WG357014

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-2-16-11-FB	05	02/16/11					02/18/11	1.9	7		02/21/11	3.5	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1925411
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8082 AAB#: WG357027

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-TPS-2-16-11-COM	01	02/16/11					02/18/11	1.9	14		02/22/11	3.6	40	
SITE #1-2-16-11-DUP	02	02/16/11					02/18/11	1.9	14		02/21/11	3.6	40	
SITE #1-2-16-11-MS	03	02/16/11					02/18/11	1.9	14		02/22/11	3.6	40	
SITE #1-2-16-11-MSD	04	02/16/11					02/18/11	1.9	14		02/22/11	3.6	40	
SITE #1-2-16-11-CLAY-C	06	02/16/11					02/18/11	1.9	14		02/22/11	4.1	40	
SITE #1-2-16-11-CLAY-C-	07	02/16/11					02/18/11	1.9	14		02/21/11	3.6	40	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1925411
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11020447
Instrument Id: HP9
Workgroup (AAB#): WG357027

Method: 8082
CAL ID: HP9-18-FEB-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L11020447-01	1.00	01	77.2	74.2
L11020447-02	1.00	01	76.3	68.8
L11020447-03	1.00	01	60.2	53.3
L11020447-04	1.00	01	70.7	62.5
L11020447-06	1.00	01	83.8	87.4
L11020447-07	1.00	01	77.5	85.6
WG356901-02	1.00	01	74.0	87.6
WG356901-03	1.00	01	79.2	86.1

Surrogates	Surrogate Limits
1 - 2,4,5,6-Tetrachloro-m-Xylene	29 - 133
2 - Decachlorobiphenyl	60 - 125

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1925420
Report generated: 02/24/2011 08:23

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11020447
Instrument Id: HP9
Workgroup (AAB#): WG357014

Method: 8082
CAL ID: HP9-18-FEB-11
Matrix: Water

Sample Number	Dilution	Tag	1	2
L11020447-05	1.00	01	87.5	80.3
WG356908-01	1.00	01	86.4	84.1
WG356908-02	1.00	01	80.8	49.3
WG356908-03	1.00	01	73.4	85.8

Surrogates	Surrogate Limits		
1 - 2,4,5,6-Tetrachloro-m-xylene	30	-	132
2 - Decachlorobiphenyl	40	-	135

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1925420
Report generated: 02/24/2011 08:23

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Blank File ID: 9GR60486.R
Prep Date: 02/18/11 09:01
Analyzed Date: 02/21/11 20:10
Analyst: ECL

Work Group: WG357014
Blank Sample ID: WG356908-01
Instrument ID: HP9
Method: 8082

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356908-02	9GR60488.R	02/21/11 20:46	01
LCS2	WG356908-03	9GR60489.R	02/21/11 21:04	01
SITE #1-2-16-11-FB	L11020447-05	9GR60492.R	02/21/11 21:58	01

Report Name: BLANK_SUMMARY
PDF File ID: 1925412
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Blank File ID: 9GR60493.R
Prep Date: 02/18/11 09:37
Analyzed Date: 02/21/11 22:16
Analyst: ECL

Work Group: WG357027
Blank Sample ID: WG356901-02
Instrument ID: HP9
Method: 8082

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356901-03	9GR60494.R	02/21/11 22:34	01
SITE #1-2-16-11-DUP	L11020447-02	9GR60495.R	02/21/11 22:52	01
SITE #1-2-16-11-CLAY-C-2	L11020447-07	9GR60497.R	02/21/11 23:28	01
SITE #1-TPS-2-16-11-COMP	L11020447-01	9GR60499.R	02/22/11 00:04	01
SITE #1-2-16-11-MS	L11020447-03	9GR60500.R	02/22/11 00:22	01
SITE #1-2-16-11-MSD	L11020447-04	9GR60501.R	02/22/11 00:40	01
SITE #1-2-16-11-CLAY-C	L11020447-06	9GR60509.R	02/22/11 12:26	01

Report Name: BLANK_SUMMARY
PDF File ID: 1925412
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/18/11 09:01 Sample ID: WG356908-01
Instrument ID: HP9 Run Date: 02/21/11 20:10 Prep Method: 3510C
File ID: 9GR60486.R Analyst: ECL Method: 8082
Workgroup (AAB#): WG357014 Matrix: Water Units: ug/L
Contract #: Cal ID: HP9-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Aroclor-1016	0.250	0.500	0.250	1	U
Aroclor-1221	0.250	0.500	0.250	1	U
Aroclor-1232	0.250	0.500	0.250	1	U
Aroclor-1242	0.250	0.500	0.250	1	U
Aroclor-1248	0.250	0.500	0.250	1	U
Aroclor-1254	0.250	0.500	0.250	1	U
Aroclor-1260	0.250	0.500	0.250	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-xylene	86.4	30	-	132	PASS
Decachlorobiphenyl	84.1	40	-	135	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1925413
24-FEB-2011 08:23

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/18/11 09:37 Sample ID: WG356901-02
Instrument ID: HP9 Run Date: 02/21/11 22:16 Prep Method: 3550B
File ID: 9GR60493.R Analyst: ECL Method: 8082
Workgroup (AAB#): WG357027 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HP9-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Aroclor-1016	8.25	16.5	8.25	1	U
Aroclor-1221	8.25	16.5	8.25	1	U
Aroclor-1232	8.25	16.5	8.25	1	U
Aroclor-1242	8.25	16.5	8.25	1	U
Aroclor-1248	8.25	16.5	8.25	1	U
Aroclor-1254	8.25	16.5	8.25	1	U
Aroclor-1260	8.25	16.5	8.25	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-Xylene	74.0	29	-	133	PASS
Decachlorobiphenyl	87.6	60	-	125	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1925413
24-FEB-2011 08:23

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG356908-02
Instrument ID: HP9 Run Time: 20:46 Prep Method: 3510C
File ID: 9GR60488.R Analyst: ECL Method: 8082
Workgroup (AAB#): WG357014 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD43199 Cal ID: HP9-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aroclor-1016	2.50	2.64	105	25 - 145	
Aroclor-1260	2.50	2.82	113	30 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	80.8	30 - 132	PASS
Decachlorobiphenyl	49.3	40 - 135	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1925414
Report generated: 02/24/2011 08:23

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG356901-03
Instrument ID: HP9 Run Time: 22:34 Prep Method: 3550B
File ID: 9GR60494.R Analyst: ECL Method: 8082
Workgroup (AAB#): WG357027 Matrix: Soil Units: ug/kg
QC Key: DOD4 Lot#: STD43199 Cal ID: HP9-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aroclor-1016	83.3	76.3	91.5	40 - 140	
Aroclor-1260	83.3	84.6	101	60 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,5,6-Tetrachloro-m-Xylene	79.2	29 - 133	PASS
Decachlorobiphenyl	86.1	60 - 125	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1925414
Report generated: 02/24/2011 08:23

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Analyst: ECL Prep Method: 3510C
Instrument ID: HP9 Matrix: Water Method: 8082
Workgroup (AAB#): WG357014 Units: ug/L
QC Key: DOD4 Lot #: STD43199

Sample ID: WG356908-02 LCS File ID: 9GR60488.R Run Date: 02/21/2011 20:46
Sample ID: WG356908-03 LCS2 File ID: 9GR60489.R Run Date: 02/21/2011 21:04

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Aroclor-1016	2.50	2.64	105	2.50	2.31	92.4	13.2	25 - 145	30	
Aroclor-1260	2.50	2.82	113	2.50	2.67	107	5.36	30 - 145	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2,4,5,6-Tetrachloro-m-xylene	80.8	73.4	30 - 132	PASS
Decachlorobiphenyl	49.3	85.8	40 - 135	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1925415
Report generated: 02/24/2011 08:23

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L11020447 Cal ID:HP9- 18-FEB-11 Worknum:WG357027
Instrument ID:HP9 Contract #: Prep Method:3550B
Parent ID:L11020447-01 File ID:9GR60499.R Dil:1 Method:8082
Sample ID:L11020447-03 MS File ID:9GR60500.R Dil:1 Matrix:Soil
Sample ID:L11020447-04 MSD File ID:9GR60501.R Dil:1 Units:ug/kg
Percent Solid:84.0

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aroclor-1016	U	98.4	76.0	77.2	98.0	88.9	90.7	15.6	40 - 140	30	
Aroclor-1260	U	98.4	76.6	77.8	98.0	92.0	93.8	18.3	60 - 130	30	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
PDF File ID: 1925416
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447 **Instrument ID:** HP9

Analytical Method: 8082 **Initial Calibration Date:** 23-JUN-10 17:45

ICAL Workgroup: WG335138 **Column ID:** R

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Aroclor-1254-1		99790	12.0		
Aroclor-1254-2		336400	18.7		
Aroclor-1254-3		473500	15.9		
Aroclor-1254-4		226600	19.4		
Aroclor-1254-5		395600	11.5		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1925417
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447
Analytical Method: 8082
ICAL Workgroup: WG357030

Instrument ID: HP9
Initial Calibration Date: 18-FEB-11 18:51
Column ID: R

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Aroclor-1016-1		233600	9.85		
Aroclor-1016-2		494100	12.2		
Aroclor-1016-3		907000	6.37		
Aroclor-1016-4		413400	7.49		
Aroclor-1016-5		283600	7.13		
Aroclor-1260-1		528300	10.5		
Aroclor-1260-2		592400	8.00		
Aroclor-1260-3		370100	6.71		
Aroclor-1260-4		746900	4.37		
Aroclor-1260-5		172900	4.59		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1925417
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8082
Instrument ID: HP9
Initial Calibration Date: 23-JUN-10 17:45
Column ID: R

Analyte	WG335138-01			WG335138-02			WG335138-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Aroclor-1254-1	2000	162226094	81110	1000	90871252.0	90870	500	49628416.0	99260
Aroclor-1254-2	2000	524725200	262400	1000	291267584	291300	500	156885134	313800
Aroclor-1254-3	2000	773739915	386900	1000	418730523	418700	500	224815214	449600
Aroclor-1254-4	2000	347199347	173600	1000	193641333	193600	500	106497655	213000
Aroclor-1254-5	2000	682539754	341300	1000	367181747	367200	500	197086780	394200

INT_CAL - Modified 03/06/2008
PDF File ID: 1925417
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8082
Instrument ID: HP9
Initial Calibration Date: 23-JUN-10 17:45
Column ID: R

Analyte	WG335138-04			WG335138-05			WG335138-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Aroclor-1254-1	250	26185404.0	104700	100	11055604.0	110600	50.0	5609259.00	112200
Aroclor-1254-2	250	82590761.0	330400	100	39045582.0	390500	50.0	21505072.0	430100
Aroclor-1254-3	250	115430055	461700	100	53550885.0	535500	50.0	29423357.0	588500
Aroclor-1254-4	250	56031778.0	224100	100	26364199.0	263600	50.0	14570408.0	291400
Aroclor-1254-5	250	93657661.0	374600	100	43062704.0	430600	50.0	23283850.0	465700

INT_CAL - Modified 03/06/2008
PDF File ID: 1925417
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8082
Instrument ID: HP9
Initial Calibration Date: 18-FEB-11 18:51
Column ID: R

Analyte	WG357030-01			WG357030-02			WG357030-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Aroclor-1016-1	2000	391543818	195800	1000	227700571	227700	500	113745189	227500
Aroclor-1016-2	2000	802504721	401300	1000	464161119	464200	500	237649882	475300
Aroclor-1016-3	2000	1602571460	801300	1000	918936772	918900	500	455360787	910700
Aroclor-1016-4	2000	703590091	351800	1000	412690661	412700	500	214095627	428200
Aroclor-1016-5	2000	497813028	248900	1000	284673012	284700	500	143825322	287700
Aroclor-1260-1	2000	905444537	452700	1000	514138531	514100	500	252147157	504300
Aroclor-1260-2	2000	1049174650	524600	1000	592698151	592700	500	285363329	570700
Aroclor-1260-3	2000	671025651	335500	1000	377842297	377800	500	181537976	363100
Aroclor-1260-4	2000	1408478880	704200	1000	784361371	784400	500	370724156	741400
Aroclor-1260-5	2000	316287424	158100	1000	179602130	179600	500	87856968.0	175700

INT_CAL - Modified 03/06/2008
PDF File ID: 1925417
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L11020447
Analytical Method: 8082
Instrument ID: HP9
Initial Calibration Date: 18-FEB-11 18:51
Column ID: R

Analyte	WG357030-04			WG357030-05			WG357030-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Aroclor-1016-1	250	59338318.0	237400	100	25110036.0	251100	50.0	13113634.0	262300
Aroclor-1016-2	250	130743049	523000	100	52692398.0	526900	50.0	28686776.0	573700
Aroclor-1016-3	250	226620088	906500	100	92709637.0	927100	50.0	48877494.0	977500
Aroclor-1016-4	250	106332530	425300	100	43265285.0	432700	50.0	21484822.0	429700
Aroclor-1016-5	250	68869989.0	275500	100	29752260.0	297500	50.0	15364885.0	307300
Aroclor-1260-1	250	128156240	512600	100	58247230.0	582500	50.0	30172169.0	603400
Aroclor-1260-2	250	143657393	574600	100	63802375.0	638000	50.0	32688654.0	653800
Aroclor-1260-3	250	89132117.0	356500	100	37816193.0	378200	50.0	20459490.0	409200
Aroclor-1260-4	250	182611078	730400	100	73370910.0	733700	50.0	39358784.0	787200
Aroclor-1260-5	250	42726536.0	170900	100	17375454.0	173800	50.0	8962286.00	179200

INT_CAL - Modified 03/06/2008
PDF File ID: 1925417
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11020447 Run Date: 06/23/2010 Sample ID: WG335138-07
Instrument ID: HP9 Run Time: 18:03 Method: 8082
File ID: 9GR57263.R Analyst: ECL QC Key: DOD4
ICal Workgroup: WG335138 Cal ID: HP9 - 23-JUN-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Aroclor-1254		500	490	ug/L	293000	2.00	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1925418
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357030-07
Instrument ID: HP9 Run Time: 19:09 Method: 8082
File ID: 9GR60441.R Analyst: ECL QC Key: DOD4
ICal Workgroup: WG357030 Cal ID: HP9 - 18-FEB-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Aroclor-1016		250	224	ug/L	416000	10.3	20	
Aroclor-1260		250	244	ug/L	459000	2.40	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1925418
Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357031-04

Instrument ID: HP9 Run Time: 17:28 Method: 8082

File ID: 9GR60477.R Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357014 Cal ID: HP9 - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Aroclor-1016		250	272	ug/L	510000	8.78	20	
Aroclor-1221		NA		ug/L			20	
Aroclor-1232		NA		ug/L			20	
Aroclor-1242		NA		ug/L			20	
Aroclor-1248		NA		ug/L			20	
Aroclor-1254		NA		ug/L			20	
Aroclor-1260		250	281	ug/L	540000	12.4	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1925419

Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357031-05

Instrument ID: HP9 Run Time: 20:28 Method: 8082

File ID: 9GR60487.R Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357014 Cal ID: HP9 - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Aroclor-1016		500	498	ug/L	467000	0.428	20	
Aroclor-1221		NA		ug/L			20	
Aroclor-1232		NA		ug/L			20	
Aroclor-1242		NA		ug/L			20	
Aroclor-1248		NA		ug/L			20	
Aroclor-1254		NA		ug/L			20	
Aroclor-1260		500	514	ug/L	494000	2.80	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1925419

Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357031-06

Instrument ID: HP9 Run Time: 23:46 Method: 8082

File ID: 9GR60498.R Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357014 Cal ID: HP9 - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Aroclor-1016		250	281	ug/L	529000	12.6	20	
Aroclor-1221		NA		ug/L			20	
Aroclor-1232		NA		ug/L			20	
Aroclor-1242		NA		ug/L			20	
Aroclor-1248		NA		ug/L			20	
Aroclor-1254		NA		ug/L			20	
Aroclor-1260		250	298	ug/L	574000	19.0	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1925419

Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357031-07

Instrument ID: HP9 Run Time: 02:10 Method: 8082

File ID: 9GR60506.R Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357027 Cal ID: HP9 - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Aroclor-1016		500	529	ug/L	496000	5.77	20	
Aroclor-1221		NA		ug/L			20	
Aroclor-1232		NA		ug/L			20	
Aroclor-1242		NA		ug/L			20	
Aroclor-1248		NA		ug/L			20	
Aroclor-1254		NA		ug/L			20	
Aroclor-1260		500	531	ug/L	513000	6.16	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1925419

Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357211-01

Instrument ID: HP9 Run Time: 11:11 Method: 8082

File ID: 9GR60508.R Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357027 Cal ID: HP9 - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Aroclor-1016		500	512	ug/L	482000	2.39	20	
Aroclor-1221		NA		ug/L			20	
Aroclor-1232		NA		ug/L			20	
Aroclor-1242		NA		ug/L			20	
Aroclor-1248		NA		ug/L			20	
Aroclor-1254		NA		ug/L			20	
Aroclor-1260		500	553	ug/L	530000	10.5	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1925419

Report generated 02/24/2011 08:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357211-02

Instrument ID: HP9 Run Time: 15:44 Method: 8082

File ID: 9GR60520.R Analyst: ECL QC Key: DOD4

Workgroup (AAB#): WG357027 Cal ID: HP9 - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Aroclor-1016		250	280	ug/L	528000	12.0	20	
Aroclor-1221		NA		ug/L			20	
Aroclor-1232		NA		ug/L			20	
Aroclor-1242		NA		ug/L			20	
Aroclor-1248		NA		ug/L			20	
Aroclor-1254		NA		ug/L			20	
Aroclor-1260		250	286	ug/L	552000	14.4	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 1925419

Report generated 02/24/2011 08:23

2.1.3.3 Sample Data

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60499.D Vial: 35
Acq On : 22 Feb 2011 00:04 Operator: ECL
Sample : L11020447-01 REF Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:44:13 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.399	209963213	15.4342	UG/L
Spiked Amount 20.000	Range 29 - 133	Recovery = 77.17%		
12) S Decachlorobiphenyl	11.018	101574204	14.8326	UG/L
Spiked Amount 20.000	Range 30 - 173	Recovery = 74.16%		
Target Compounds				
2) L1 Aroclor-1016-1	0.000	0	N.D.	UG/L
3) L1 Aroclor-1016-2	0.000	0	N.D.	UG/L
4) L1 Aroclor-1016-3	0.000	0	N.D.	UG/L
5) L1 Aroclor-1016-4	0.000	0	N.D.	UG/L
6) L1 Aroclor-1016-5	0.000	0	N.D.	UG/L
Sum Aroclor-1016-1		0	N.D.	UG/L
Average Aroclor-1016-1			0.000	UG/L
7) L2 Aroclor-1260-1	0.000	0	N.D.	UG/L
8) L2 Aroclor-1260-2	0.000	0	N.D.	UG/L
9) L2 Aroclor-1260-3	0.000	0	N.D.	UG/L
10) L2 Aroclor-1260-4	0.000	0	N.D.	UG/L
11) L2 Aroclor-1260-5	0.000	0	N.D.	UG/L
Sum Aroclor-1260-1		0	N.D.	UG/L
Average Aroclor-1260-1			0.000	UG/L

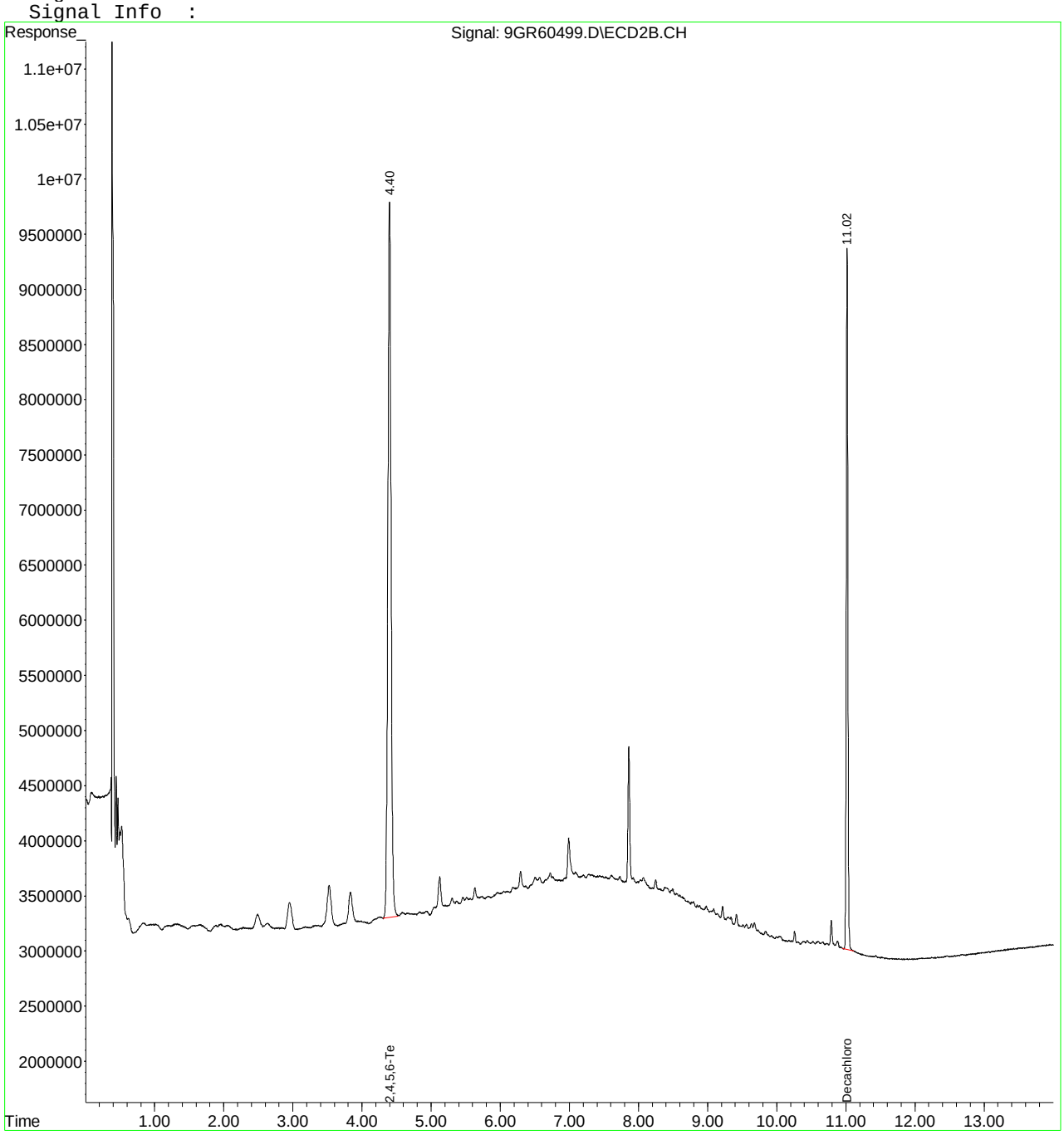
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60499.D 1660R.M Tue Feb 22 08:46:40 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60499.D Vial: 35
Acq On : 22 Feb 2011 00:04 Operator: ECL
Sample : L11020447-01 REF Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:44 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60495.D Vial: 31
Acq On : 21 Feb 2011 22:52 Operator: ECL
Sample : L11020447-02 Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:42:57 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.403	207601966	15.2607 UG/L
Spiked Amount 20.000	Range 29 - 133	Recovery =	76.30%
12) S Decachlorobiphenyl	11.020	94277568	13.7671 UG/L
Spiked Amount 20.000	Range 30 - 173	Recovery =	68.84%
Target Compounds			
2) L1 Aroclor-1016-1	0.000	0	N.D. UG/L
3) L1 Aroclor-1016-2	0.000	0	N.D. UG/L
4) L1 Aroclor-1016-3	0.000	0	N.D. UG/L
5) L1 Aroclor-1016-4	0.000	0	N.D. UG/L
6) L1 Aroclor-1016-5	0.000	0	N.D. UG/L
Sum Aroclor-1016-1		0	N.D. UG/L
Average Aroclor-1016-1			0.000 UG/L
7) L2 Aroclor-1260-1	0.000	0	N.D. UG/L
8) L2 Aroclor-1260-2	0.000	0	N.D. UG/L
9) L2 Aroclor-1260-3	0.000	0	N.D. UG/L
10) L2 Aroclor-1260-4	0.000	0	N.D. UG/L
11) L2 Aroclor-1260-5	0.000	0	N.D. UG/L
Sum Aroclor-1260-1		0	N.D. UG/L
Average Aroclor-1260-1			0.000 UG/L

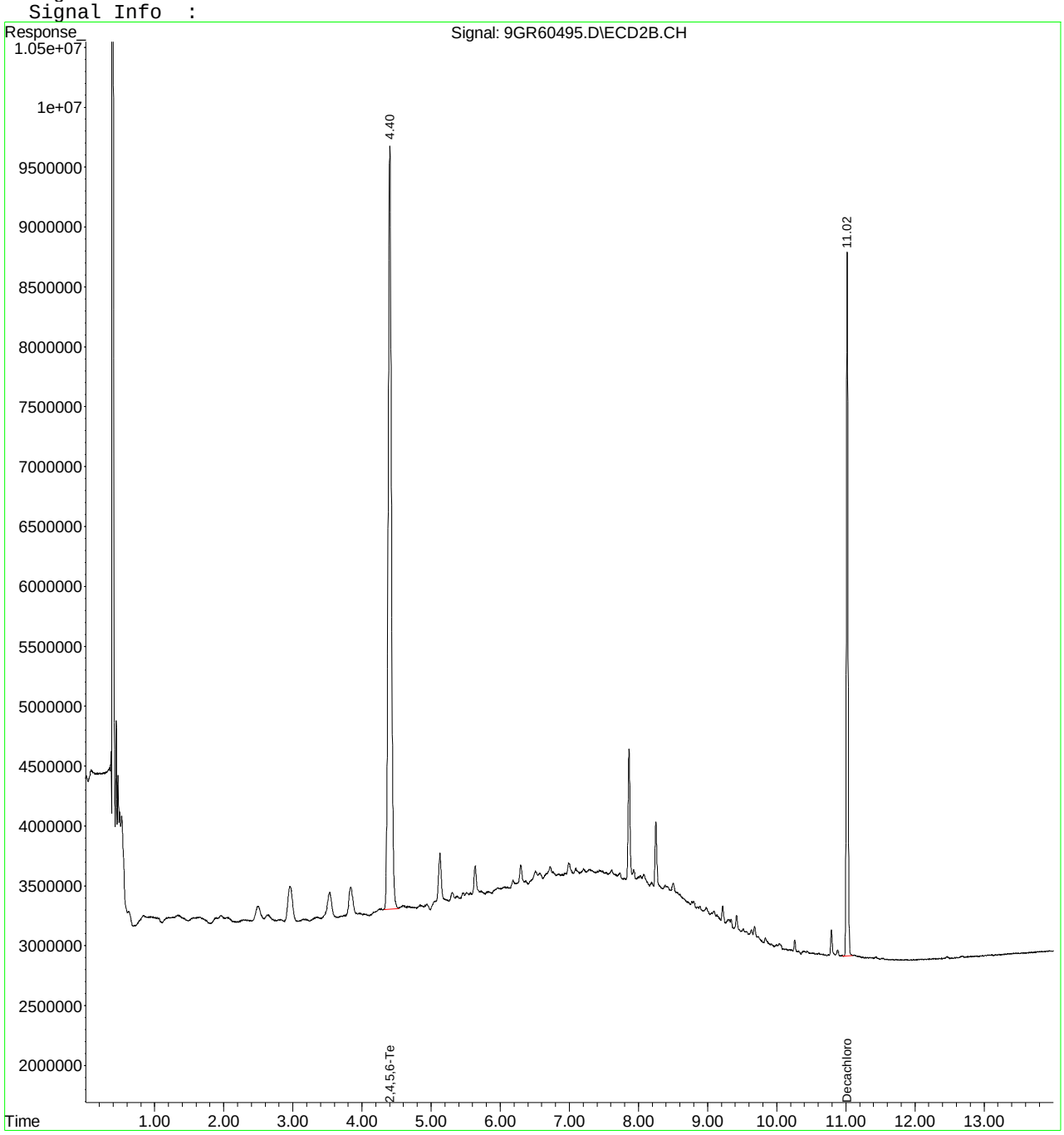
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60495.D Vial: 31
Acq On : 21 Feb 2011 22:52 Operator: ECL
Sample : L11020447-02 Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:42 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60500.D Vial: 36
Acq On : 22 Feb 2011 00:22 Operator: ECL
Sample : L11020447-03 MS Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:44:18 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.402	163691531	12.0328 UG/L
Spiked Amount 20.000	Range 29 - 133	Recovery = 60.16%	
12) S Decachlorobiphenyl	11.020	73010216	10.6615 UG/L
Spiked Amount 20.000	Range 30 - 173	Recovery = 53.31%	
Target Compounds			
2) L1 Aroclor-1016-1	5.329	44611762	190.9629 UG/L
3) L1 Aroclor-1016-2	5.956	92987756	188.2124 UG/L
4) L1 Aroclor-1016-3	6.574	180872929	199.4163 UG/L
5) L1 Aroclor-1016-4	6.741	80527177	194.7958 UG/L
6) L1 Aroclor-1016-5	7.283	54229798	191.2271 UG/L
Sum Aroclor-1016-1		453.2E6	964.6145 UG/L
Average Aroclor-1016-1			192.923 UG/L
7) L2 Aroclor-1260-1	8.570	105479017	199.6640 UG/L
8) L2 Aroclor-1260-2	8.766	115884346	195.6163 UG/L
9) L2 Aroclor-1260-3	9.450	74893786	202.3873 UG/L
10) L2 Aroclor-1260-4	9.672	139723538	187.0722 UG/L
11) L2 Aroclor-1260-5	10.504	32451208	187.6938 UG/L
Sum Aroclor-1260-1		468.4E6	972.4336 UG/L
Average Aroclor-1260-1			194.487 UG/L

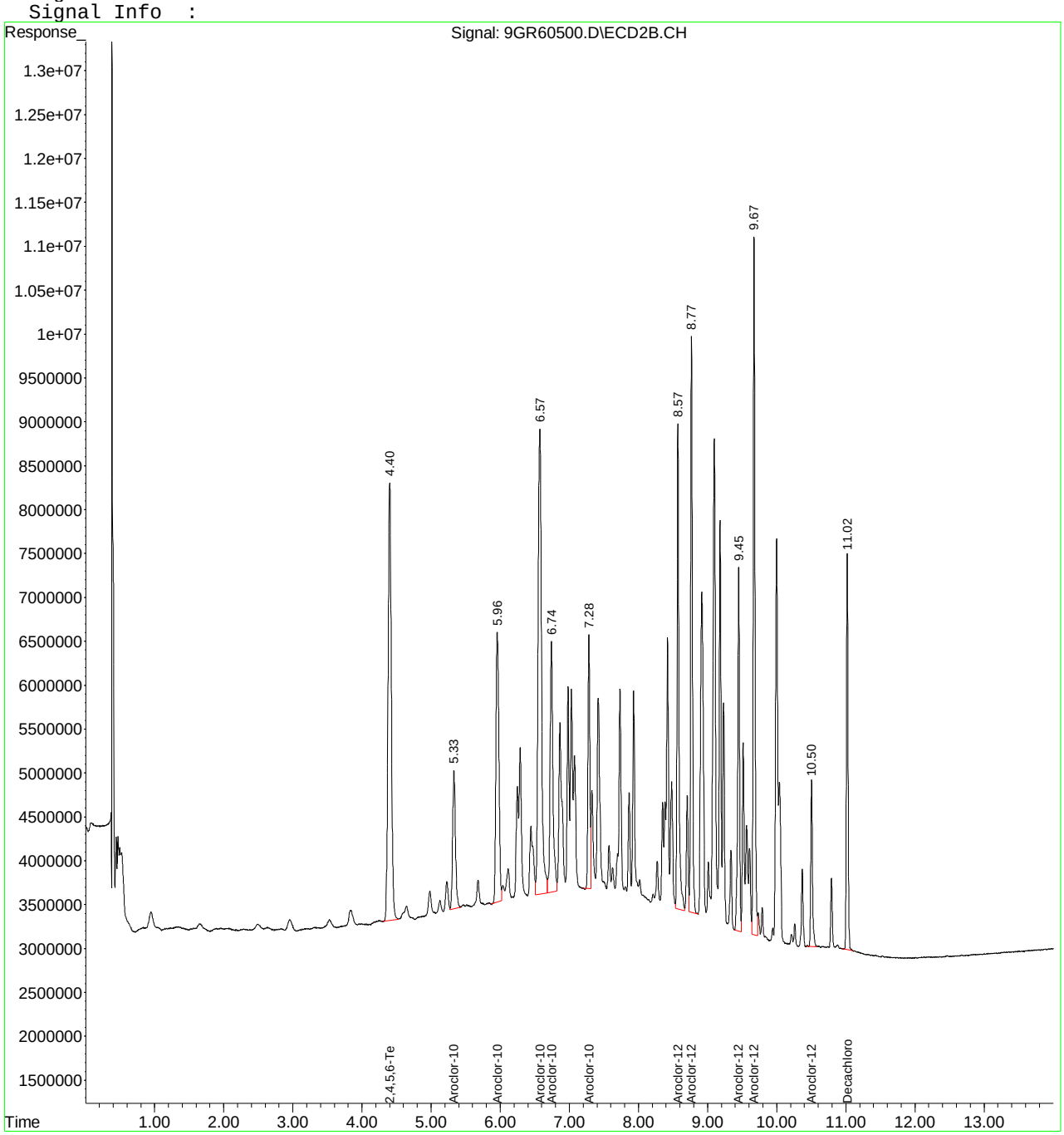
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60500.D 1660R.M Tue Feb 22 08:46:41 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60500.D Vial: 36
Acq On : 22 Feb 2011 00:22 Operator: ECL
Sample : L11020447-03 MS Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:44 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60501.D Vial: 37
Acq On : 22 Feb 2011 00:40 Operator: ECL
Sample : L11020447-04 MSD Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:44:24 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.399	192336014	14.1385 UG/L
Spiked Amount 20.000	Range 29 - 133	Recovery = 70.69%	
12) S Decachlorobiphenyl	11.019	85598907	12.4998 UG/L
Spiked Amount 20.000	Range 30 - 173	Recovery = 62.50%	
Target Compounds			
2) L1 Aroclor-1016-1	5.326	52372794	224.1843 UG/L
3) L1 Aroclor-1016-2	5.954	108471940	219.5533 UG/L
4) L1 Aroclor-1016-3	6.570	212512553	234.2997 UG/L
5) L1 Aroclor-1016-4	6.738	94731974	229.1573 UG/L
6) L1 Aroclor-1016-5	7.281	64075917	225.9469 UG/L
Sum Aroclor-1016-1		532.2E6	1133.1415 UG/L
Average Aroclor-1016-1			226.628 UG/L
7) L2 Aroclor-1260-1	8.568	124303159	235.2967 UG/L
8) L2 Aroclor-1260-2	8.764	138357517	233.5517 UG/L
9) L2 Aroclor-1260-3	9.448	90374087	244.2200 UG/L
10) L2 Aroclor-1260-4	9.670	170910910	228.8281 UG/L
11) L2 Aroclor-1260-5	10.502	39930413	230.9527 UG/L
Sum Aroclor-1260-1		563.9E6	1172.8492 UG/L
Average Aroclor-1260-1			234.570 UG/L

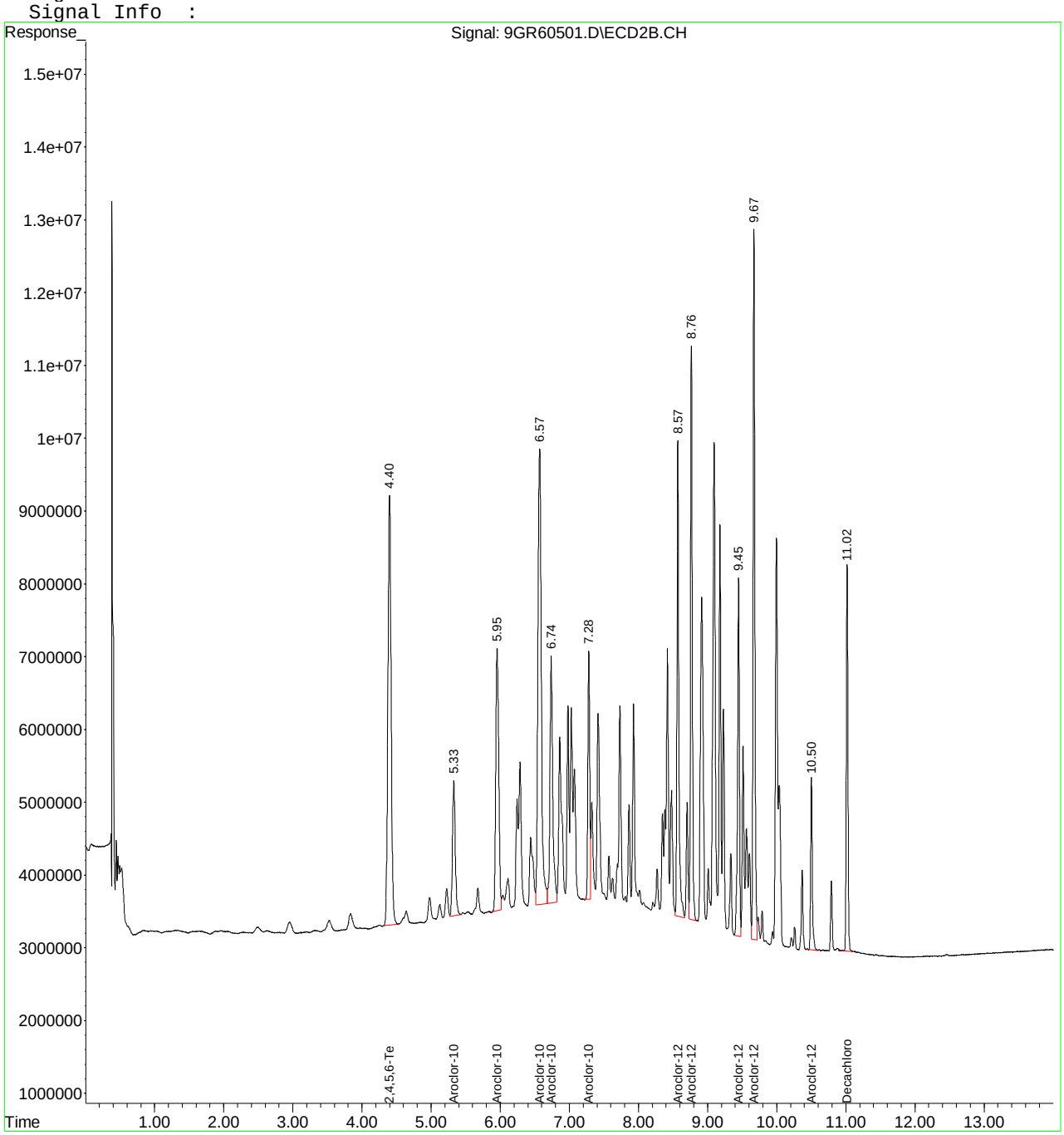
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60501.D 1660R.M Tue Feb 22 08:46:42 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60501.D Vial: 37
Acq On : 22 Feb 2011 00:40 Operator: ECL
Sample : L11020447-04 MSD Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:44 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60492.D Vial: 28
Acq On : 21 Feb 2011 21:58 Operator: ECL
Sample : L11020447-05 Inst : HP9
Misc : 1,10 WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:42:39 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.405	238007855	17.4958	UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery = 87.48%		
12) S Decachlorobiphenyl	11.021	110021739	16.0662	UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery = 80.33%		
Target Compounds				
2) L1 Aroclor-1016-1	0.000	0	N.D.	UG/L
3) L1 Aroclor-1016-2	0.000	0	N.D.	UG/L
4) L1 Aroclor-1016-3	0.000	0	N.D.	UG/L
5) L1 Aroclor-1016-4	0.000	0	N.D.	UG/L
6) L1 Aroclor-1016-5	0.000	0	N.D.	UG/L
Sum Aroclor-1016-1		0	N.D.	UG/L
Average Aroclor-1016-1			0.000	UG/L
7) L2 Aroclor-1260-1	0.000	0	N.D.	UG/L
8) L2 Aroclor-1260-2	0.000	0	N.D.	UG/L
9) L2 Aroclor-1260-3	0.000	0	N.D.	UG/L
10) L2 Aroclor-1260-4	0.000	0	N.D.	UG/L
11) L2 Aroclor-1260-5	0.000	0	N.D.	UG/L
Sum Aroclor-1260-1		0	N.D.	UG/L
Average Aroclor-1260-1			0.000	UG/L

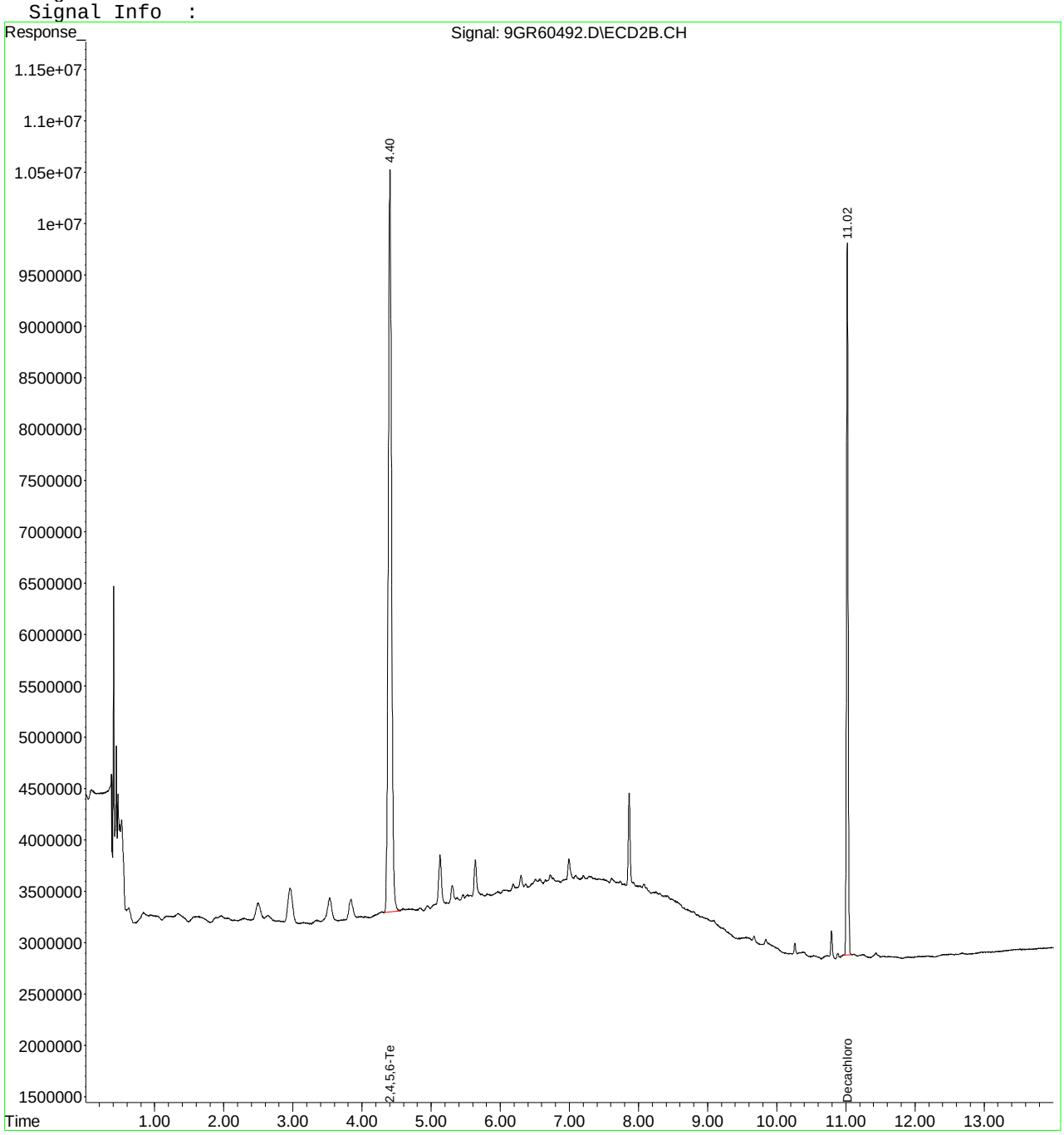
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60492.D 1660R.M Tue Feb 22 08:46:37 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60492.D Vial: 28
Acq On : 21 Feb 2011 21:58 Operator: ECL
Sample : L11020447-05 Inst : HP9
Misc : 1,10 WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:42 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022211\9GR60509.D Vial: 3
Acq On : 22 Feb 2011 12:26 Operator: ECL
Sample : L11020447-06 Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 23 10:27:42 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.398	228007975	16.7607	UG/L
Spiked Amount 20.000	Range 29 - 133	Recovery = 83.80%		
12) S Decachlorobiphenyl	11.022	119712747	17.4813	UG/L
Spiked Amount 20.000	Range 30 - 173	Recovery = 87.41%		
Target Compounds				
2) L1 Aroclor-1016-1	0.000	0	N.D.	UG/L
3) L1 Aroclor-1016-2	0.000	0	N.D.	UG/L
4) L1 Aroclor-1016-3	0.000	0	N.D.	UG/L
5) L1 Aroclor-1016-4	0.000	0	N.D.	UG/L
6) L1 Aroclor-1016-5	0.000	0	N.D.	UG/L
Sum Aroclor-1016-1		0	N.D.	UG/L
Average Aroclor-1016-1			0.000	UG/L
7) L2 Aroclor-1260-1	0.000	0	N.D.	UG/L
8) L2 Aroclor-1260-2	0.000	0	N.D.	UG/L
9) L2 Aroclor-1260-3	0.000	0	N.D.	UG/L
10) L2 Aroclor-1260-4	0.000	0	N.D.	UG/L
11) L2 Aroclor-1260-5	0.000	0	N.D.	UG/L
Sum Aroclor-1260-1		0	N.D.	UG/L
Average Aroclor-1260-1			0.000	UG/L

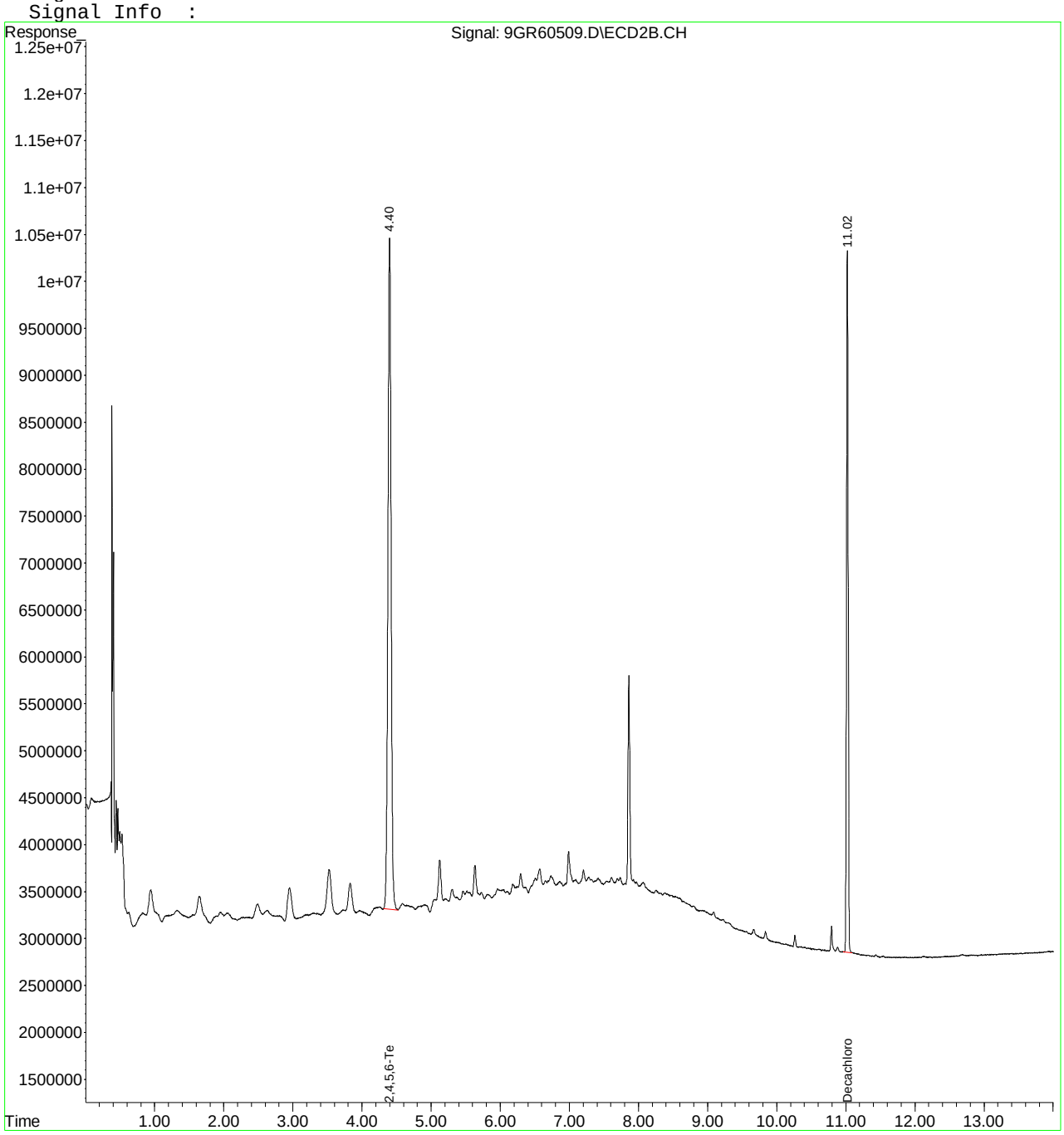
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60509.D 1660R.M Wed Feb 23 10:32:42 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022211\9GR60509.D Vial: 3
Acq On : 22 Feb 2011 12:26 Operator: ECL
Sample : L11020447-06 Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 23 10:27 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60497.D Vial: 33
Acq On : 21 Feb 2011 23:28 Operator: ECL
Sample : L11020447-07 Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:43:43 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.399	210866071	15.5006 UG/L
Spiked Amount 20.000 Range 29 - 133		Recovery = 77.50%	
12) S Decachlorobiphenyl	11.021	117243619	17.1208 UG/L
Spiked Amount 20.000 Range 30 - 173		Recovery = 85.60%	
Target Compounds			
2) L1 Aroclor-1016-1	0.000	0	N.D. UG/L
3) L1 Aroclor-1016-2	5.965	19660293	39.7935 UG/L
4) L1 Aroclor-1016-3	6.563	16359504	18.0367 UG/L
5) L1 Aroclor-1016-4	6.724	8825696	21.3494 UG/L
6) L1 Aroclor-1016-5	0.000	0	N.D. UG/L
Sum Aroclor-1016-1		44845493	79.1797 UG/L
Average Aroclor-1016-1			26.393 UG/L
7) L2 Aroclor-1260-1	0.000	0	N.D. UG/L
8) L2 Aroclor-1260-2	0.000	0	N.D. UG/L
9) L2 Aroclor-1260-3	0.000	0	N.D. UG/L
10) L2 Aroclor-1260-4	0.000	0	N.D. UG/L
11) L2 Aroclor-1260-5	0.000	0	N.D. UG/L
Sum Aroclor-1260-1		0	N.D. UG/L
Average Aroclor-1260-1			0.000 UG/L

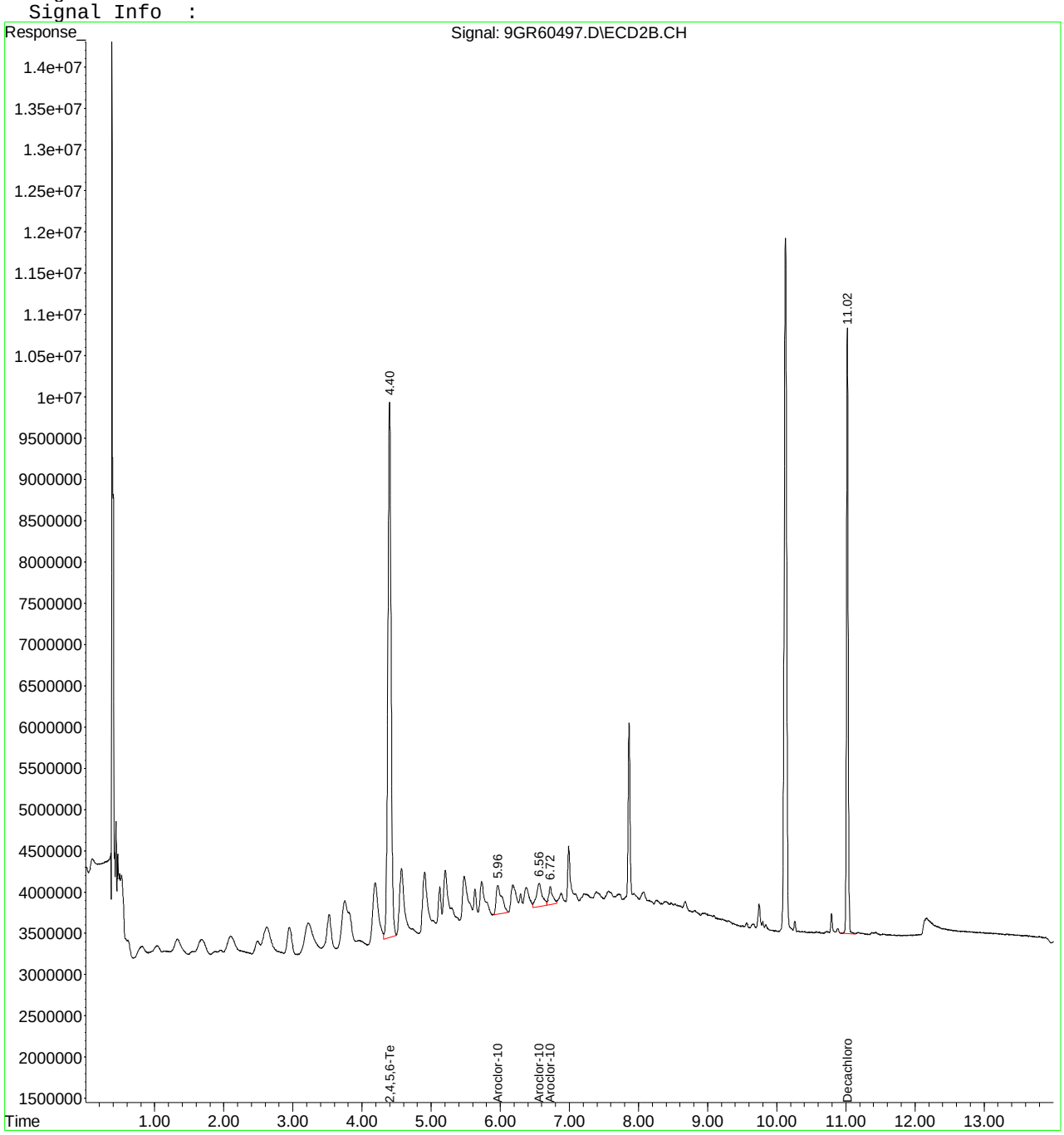
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60497.D Vial: 33
Acq On : 21 Feb 2011 23:28 Operator: ECL
Sample : L11020447-07 Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:43 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



2.1.3.4 Standards Data

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57257.D Vial: 8
Acq On : 23 Jun 2010 16:15 Operator: ECL
Sample : WG335138-01 1254 ICAL 2000 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 08:22:02 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:00 2010
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.466	833792112	86.7371 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	433.69%#
7) S Decachlorobiphenyl	11.061	386709786	76.5300 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	382.65%#
Target Compounds			
2) L1 Aroclor-1254-1	7.334	162226094	1608.2629 UG/L
3) L1 Aroclor-1254-2	7.978	524725200	1556.7107 UG/L
4) L1 Aroclor-1254-3	8.433	773739915	1632.6078 UG/L
5) L1 Aroclor-1254-4	8.812	347199347	1527.1814 UG/L
6) L1 Aroclor-1254-5	9.146	682539754	1702.7172 UG/L
Sum Aroclor-1254-1		2490.4E6	8027.4800 UG/L
Average Aroclor-1254-1			1605.496 UG/L

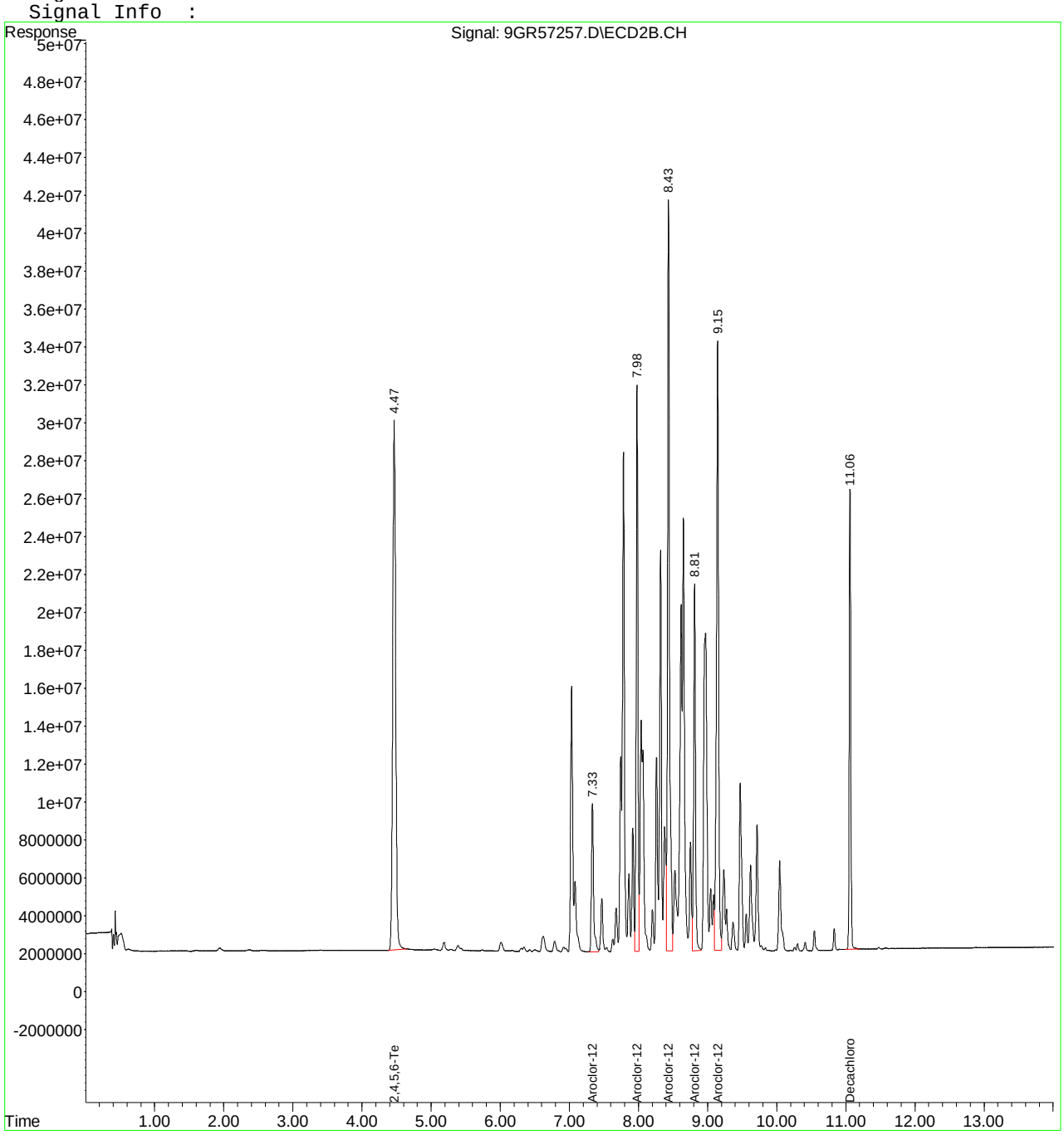
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR57257.D 1254R.M Thu Jun 24 08:23:40 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57257.D Vial: 8
Acq On : 23 Jun 2010 16:15 Operator: ECL
Sample : WG335138-01 1254 ICAL 2000 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 8:22 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:00 2010
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57258.D Vial: 9
Acq On : 23 Jun 2010 16:33 Operator: ECL
Sample : WG335138-02 1254 ICAL 1000 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 08:22:15 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:13 2010
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.465	452771858	47.1133 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	235.57%#
7) S Decachlorobiphenyl	11.066	213312925	42.2521 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	211.26%#
Target Compounds			
2) L1 Aroclor-1254-1	7.332	90871252	904.5762 UG/L
3) L1 Aroclor-1254-2	7.977	291267584	864.1099 UG/L
4) L1 Aroclor-1254-3	8.432	418730523	883.5353 UG/L
5) L1 Aroclor-1254-4	8.812	193641333	851.7712 UG/L
6) L1 Aroclor-1254-5	9.146	367181747	916.0130 UG/L
Sum Aroclor-1254-1		1361.7E6	4420.0057 UG/L
Average Aroclor-1254-1			884.001 UG/L

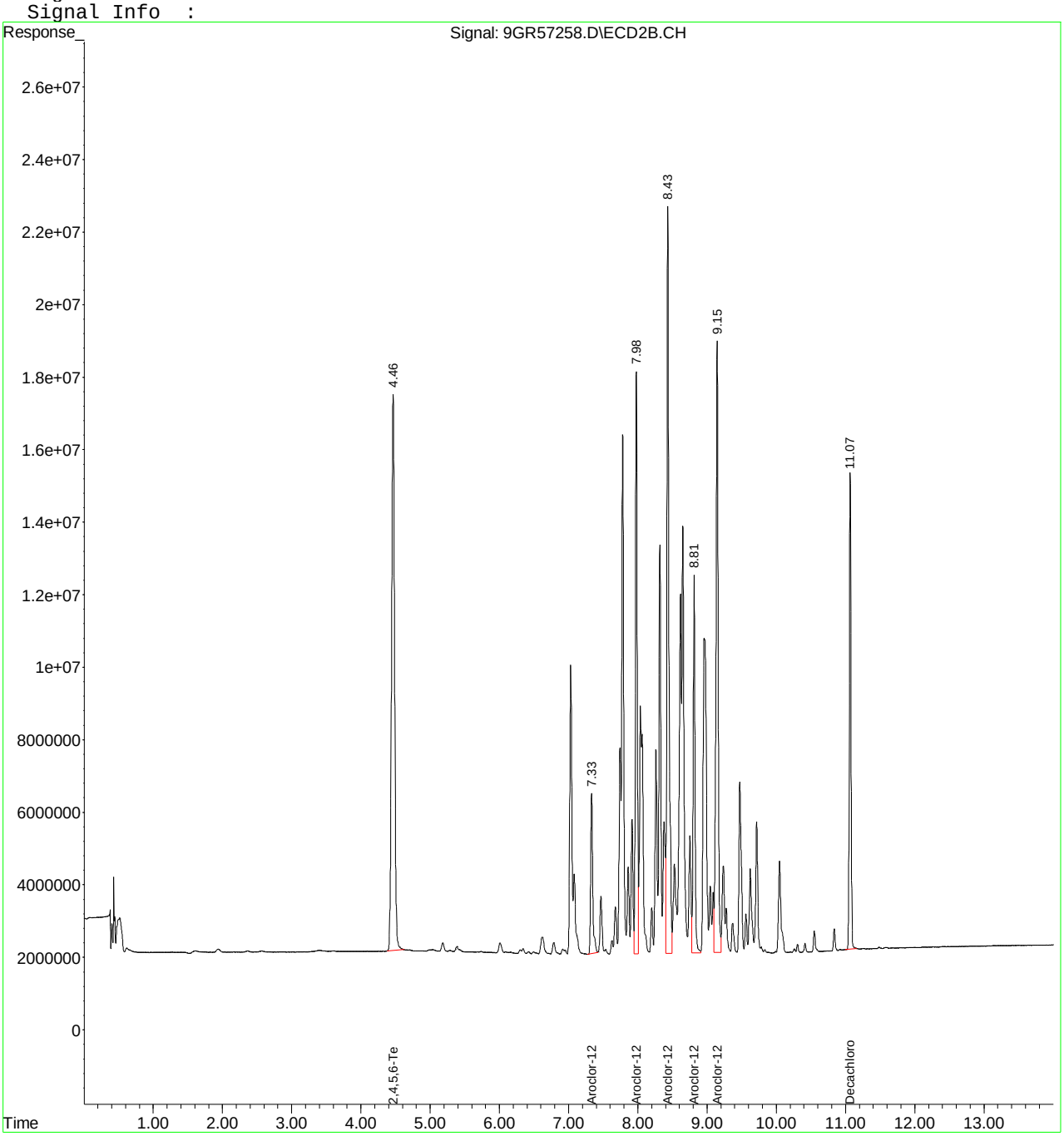
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR57258.D 1254R.M Thu Jun 24 08:23:41 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57258.D Vial: 9
Acq On : 23 Jun 2010 16:33 Operator: ECL
Sample : WG335138-02 1254 ICAL 1000 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 8:22 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:13 2010
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57259.D Vial: 10
Acq On : 23 Jun 2010 16:51 Operator: ECL
Sample : WG335138-03 1254 ICAL 500 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 08:22:29 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:27 2010
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.482	227077852	23.6474 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	118.24%
7) S Decachlorobiphenyl	11.058	117675696	23.3323 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	116.66%
Target Compounds			
2) L1 Aroclor-1254-1	7.338	49628416	495.9531 UG/L
3) L1 Aroclor-1254-2	7.980	156885134	465.4898 UG/L
4) L1 Aroclor-1254-3	8.434	224815214	474.4054 UG/L
5) L1 Aroclor-1254-4	8.812	106497655	468.5177 UG/L
6) L1 Aroclor-1254-5	9.145	197086780	491.6891 UG/L
Sum Aroclor-1254-1		734.9E6	2396.0551 UG/L
Average Aroclor-1254-1			479.211 UG/L

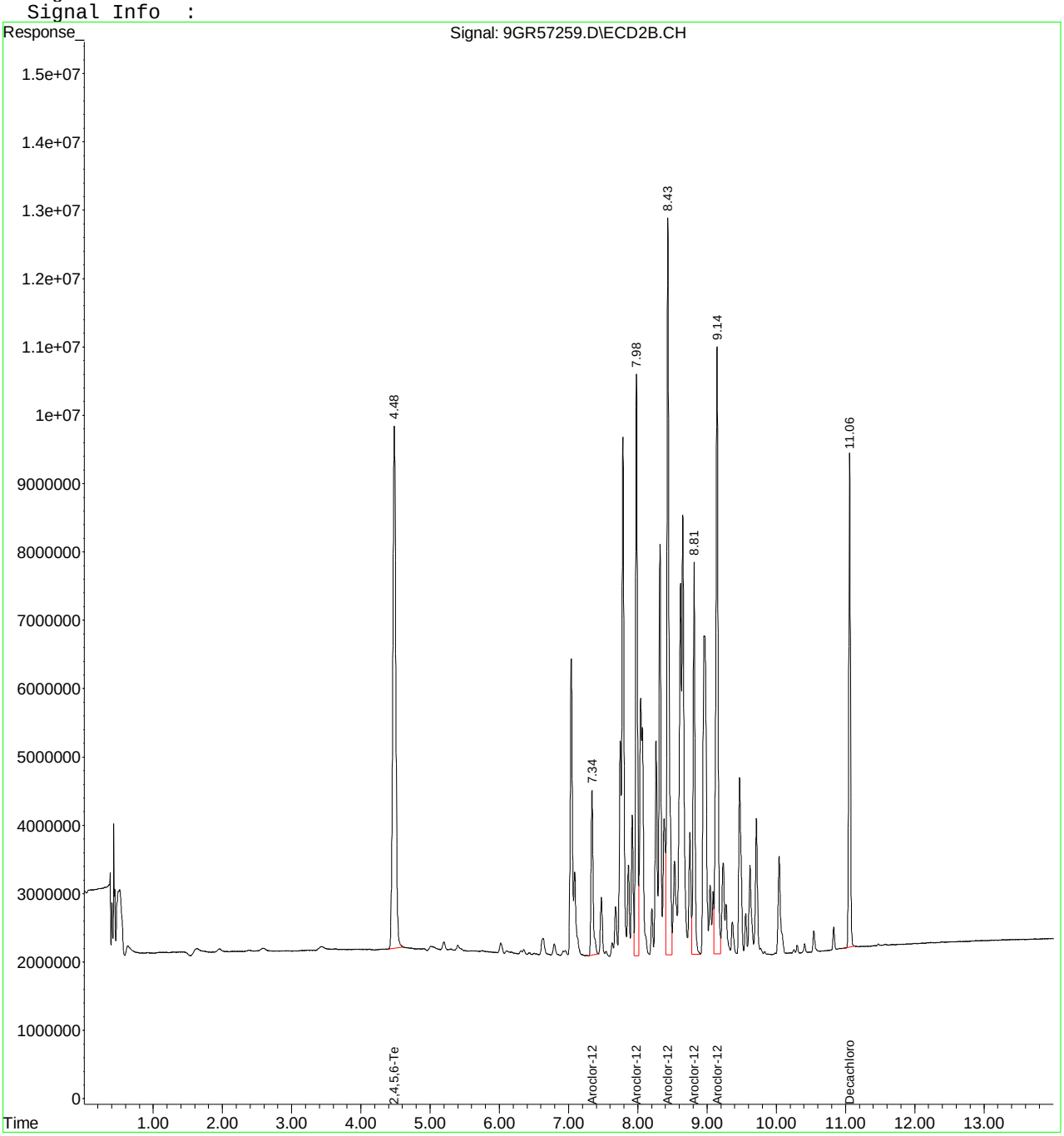
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR57259.D 1254R.M Thu Jun 24 08:23:42 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57259.D Vial: 10
Acq On : 23 Jun 2010 16:51 Operator: ECL
Sample : WG335138-03 1254 ICAL 500 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 8:22 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:27 2010
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57260.D Vial: 11
Acq On : 23 Jun 2010 17:09 Operator: ECL
Sample : WG335138-04 1254 ICAL 250 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 08:22:41 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:40 2010
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.464	117618672	12.2574 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery = 61.29%	
7) S Decachlorobiphenyl	11.062	62864227	12.4757 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery = 62.38%	
Target Compounds			
2) L1 Aroclor-1254-1	7.328	26185404	262.4121 UG/L
3) L1 Aroclor-1254-2	7.972	82590761	245.5232 UG/L
4) L1 Aroclor-1254-3	8.427	115430055	243.7867 UG/L
5) L1 Aroclor-1254-4	8.806	56031778	247.3057 UG/L
6) L1 Aroclor-1254-5	9.141	93657661	236.7524 UG/L
Sum Aroclor-1254-1		373.9E6	1235.7801 UG/L
Average Aroclor-1254-1			247.156 UG/L

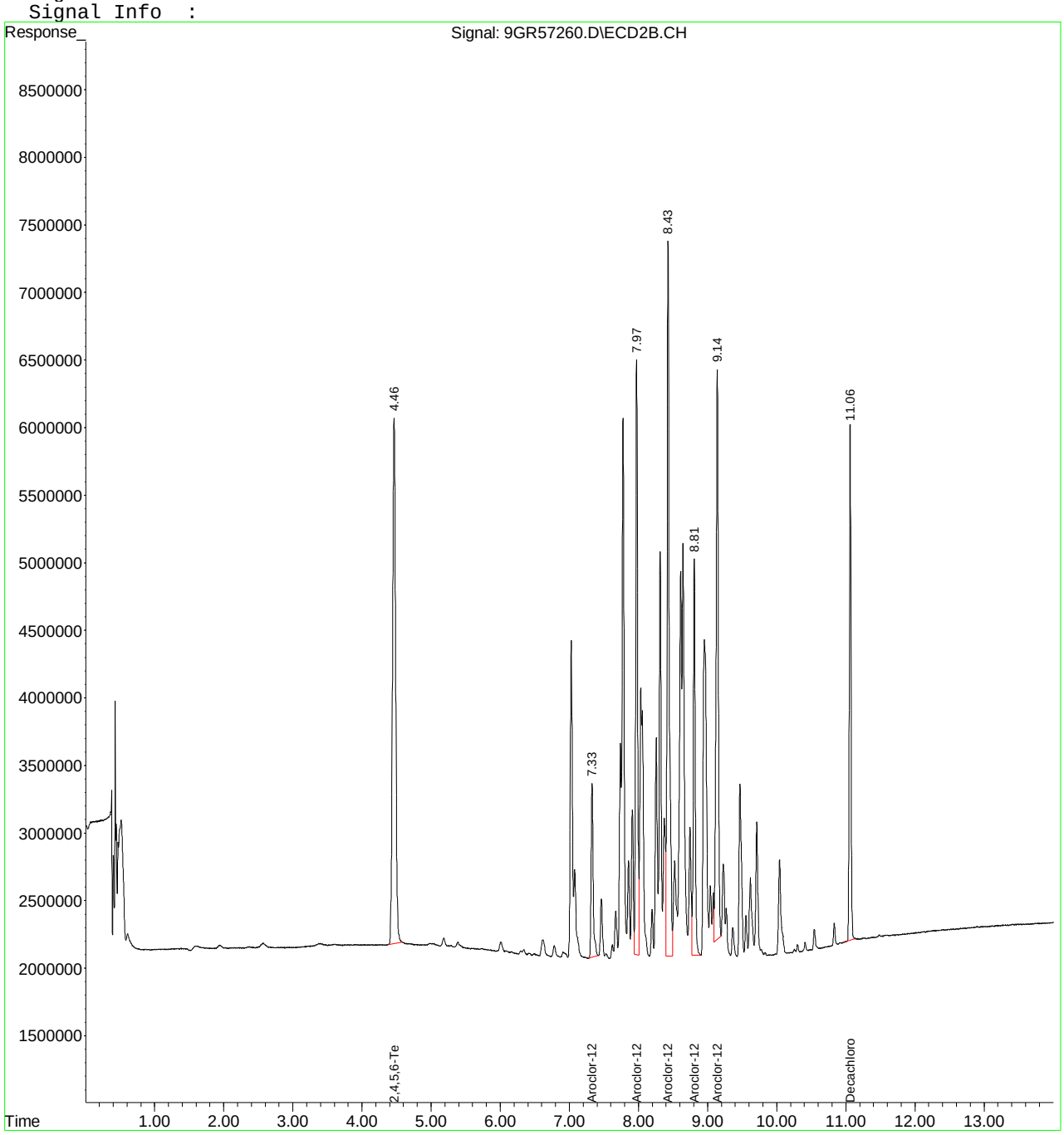
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57260.D Vial: 11
Acq On : 23 Jun 2010 17:09 Operator: ECL
Sample : WG335138-04 1254 ICAL 250 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 8:22 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:40 2010
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57261.D Vial: 12
Acq On : 23 Jun 2010 17:27 Operator: ECL
Sample : WG335138-05 1254 ICAL 100 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 08:22:54 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:52 2010
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.467	52178356	5.4377 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	27.19%#
7) S Decachlorobiphenyl	11.055	29562368	5.8668 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	29.33%#
Target Compounds			
2) L1 Aroclor-1254-1	7.329	11055604	110.7917 UG/L
3) L1 Aroclor-1254-2	7.973	39045582	116.0735 UG/L
4) L1 Aroclor-1254-3	8.427	53550885	113.0988 UG/L
5) L1 Aroclor-1254-4	8.806	26364199	116.3628 UG/L
6) L1 Aroclor-1254-5	9.140	43062704	108.8560 UG/L
Sum Aroclor-1254-1		173.1E6	565.1827 UG/L
Average Aroclor-1254-1			113.037 UG/L

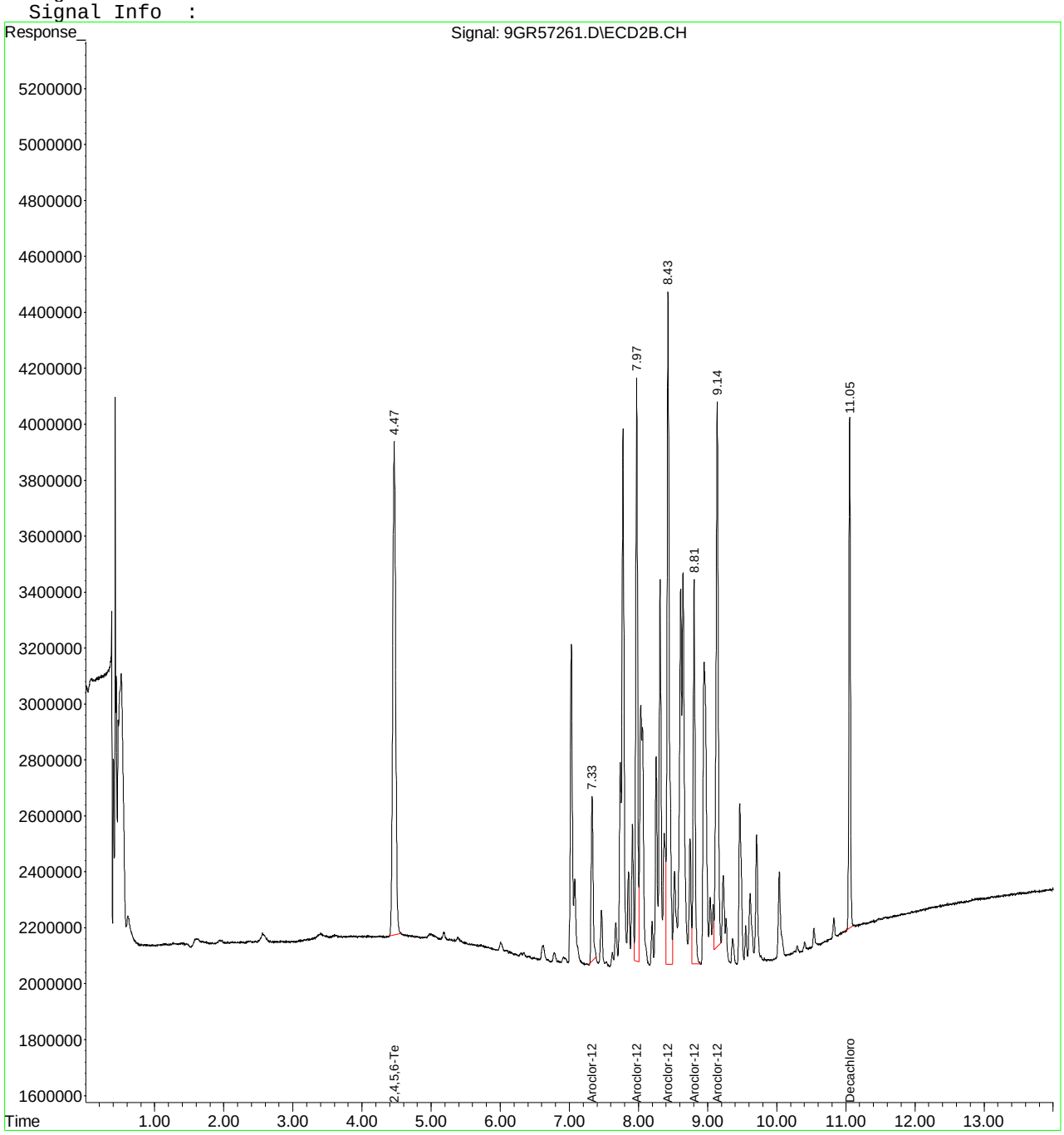
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR57261.D 1254R.M Thu Jun 24 08:23:43 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57261.D Vial: 12
Acq On : 23 Jun 2010 17:27 Operator: ECL
Sample : WG335138-05 1254 ICAL 100 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 8:22 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:52 2010
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57262.D Vial: 13
Acq On : 23 Jun 2010 17:45 Operator: ECL
Sample : WG335138-06 1254 ICAL 50 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 08:23:13 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:52 2010
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

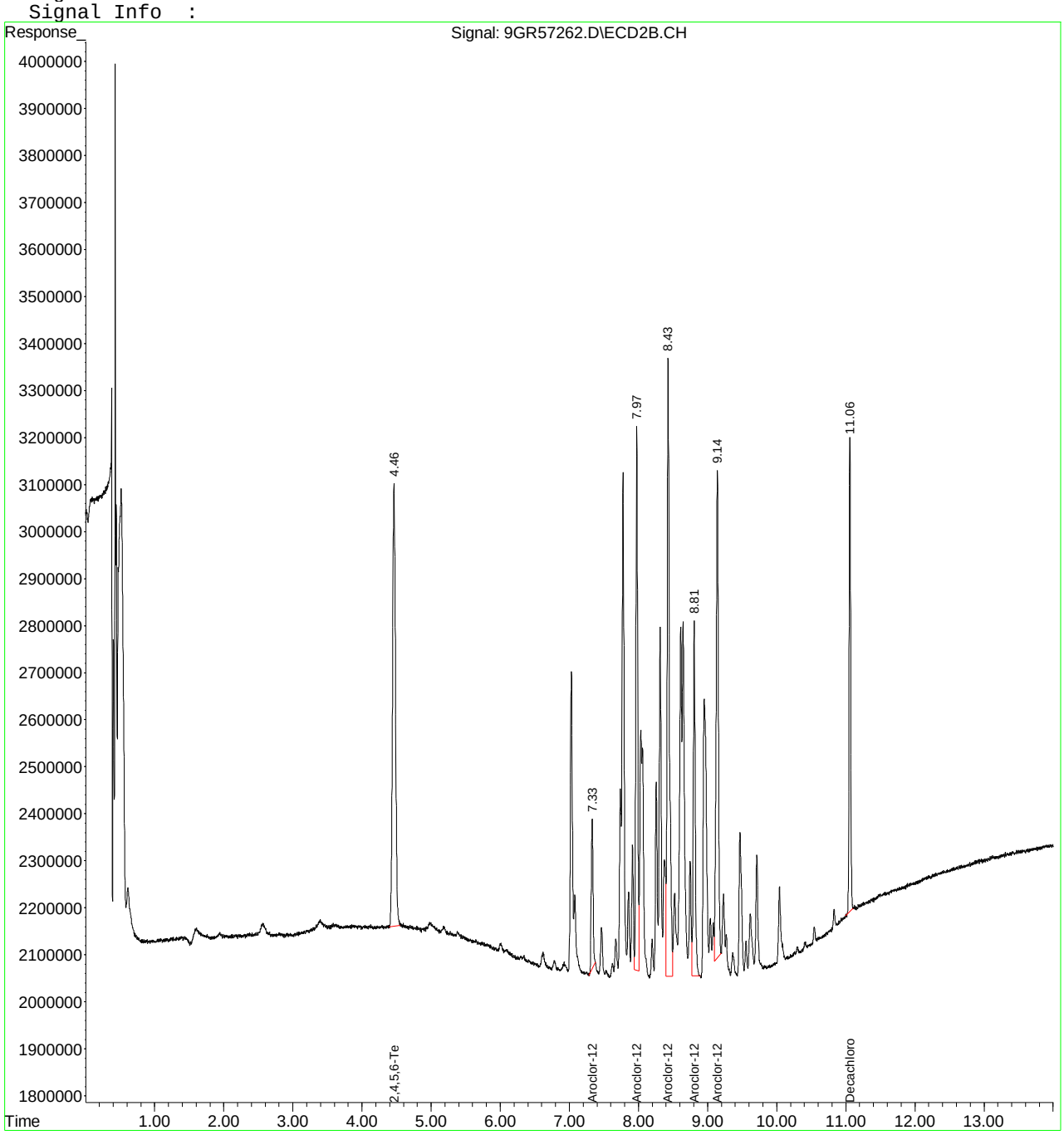
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.464	28131993	2.9317 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	14.66%#
7) S Decachlorobiphenyl	11.059	16128763	3.2008 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	16.00%#
Target Compounds			
2) L1 Aroclor-1254-1	7.330	5609259	56.2121 UG/L
3) L1 Aroclor-1254-2	7.974	21505072	63.9296 UG/L
4) L1 Aroclor-1254-3	8.428	29423357	62.1417 UG/L
5) L1 Aroclor-1254-4	8.807	14570408	64.3089 UG/L
6) L1 Aroclor-1254-5	9.141	23283850	58.8580 UG/L
Sum Aroclor-1254-1		94391948	305.4505 UG/L
Average Aroclor-1254-1			61.090 UG/L

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57262.D Vial: 13
Acq On : 23 Jun 2010 17:45 Operator: ECL
Sample : WG335138-06 1254 ICAL 50 PPB Inst : HP9
Misc : 1,1 STD38442 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 8:23 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:52 2010
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57263.D Vial: 14
Acq On : 23 Jun 2010 18:03 Operator: ECL
Sample : WG335138-07 1254 ALT 500 PPB Inst : HP9
Misc : 1,1 STD38446 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 08:23:18 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:52 2010
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	0.000	0	N.D. UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	0.00%#
7) S Decachlorobiphenyl	0.000	0	N.D. UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	0.00%#
Target Compounds			
2) L1 Aroclor-1254-1	7.321	57462882	575.8535 UG/L
3) L1 Aroclor-1254-2	7.965	161000162	478.6162 UG/L
4) L1 Aroclor-1254-3	8.419	227285427	480.0238 UG/L
5) L1 Aroclor-1254-4	8.799	99683749	439.9710 UG/L
6) L1 Aroclor-1254-5	9.132	188190605	475.7174 UG/L
Sum Aroclor-1254-1		733.6E6	2450.1818 UG/L
Average Aroclor-1254-1			490.036 UG/L

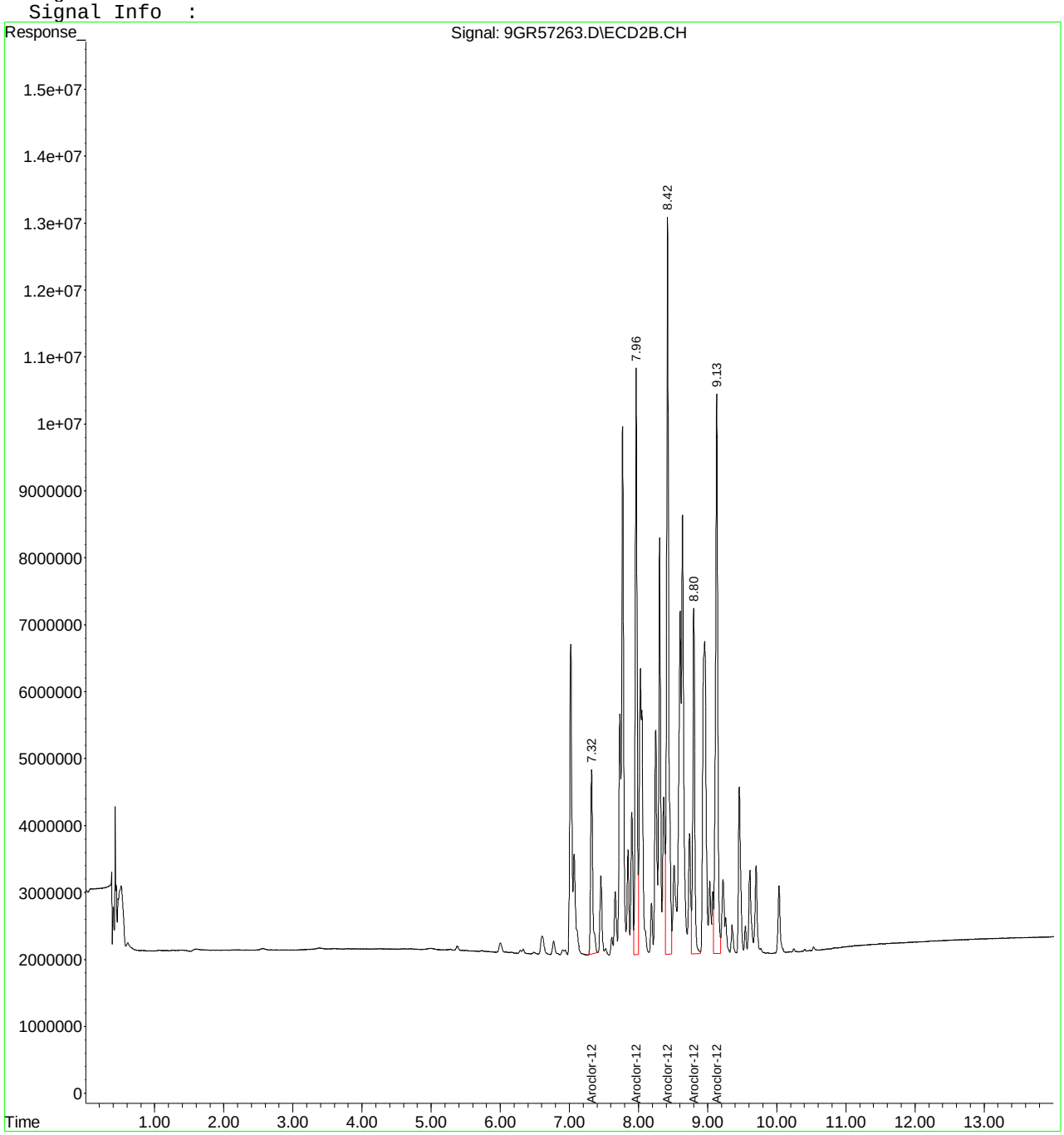
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR57263.D 1254R.M Thu Jun 24 08:23:44 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\062310\9GR57263.D Vial: 14
Acq On : 23 Jun 2010 18:03 Operator: ECL
Sample : WG335138-07 1254 ALT 500 PPB Inst : HP9
Misc : 1,1 STD38446 Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 24 8:23 2010 Quant Results File: 1254R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254R.M (Chemstation Integrator)
Title : 8082 CALIBRATION June 23, 2010
Last Update : Thu Jun 24 08:22:52 2010
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60435.D Vial: 2
Acq On : 18 Feb 2011 17:22 Operator: ECL
Sample : WG357030-01 1660 ICAL 2000 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03:15 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.395	1195542893	87.8834 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	439.42%#
12) S Decachlorobiphenyl	11.018	566326205	82.6991 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	413.50%#
Target Compounds			
2) L1 Aroclor-1016-1	5.323	391543818	1676.0227 UG/L
3) L1 Aroclor-1016-2	5.952	802504721	1624.3145 UG/L
4) L1 Aroclor-1016-3	6.568	1602571461	1766.8695 UG/L
5) L1 Aroclor-1016-4	6.735	703590091	1701.9895 UG/L
6) L1 Aroclor-1016-5	7.278	497813028	1755.4069 UG/L
Sum Aroclor-1016-1		3998.0E6	8524.6031 UG/L
Average Aroclor-1016-1			1704.921 UG/L
7) L2 Aroclor-1260-1	8.567	905444537	1713.9396 UG/L
8) L2 Aroclor-1260-2	8.763	1049174649	1771.0386 UG/L
9) L2 Aroclor-1260-3	9.447	671025651	1813.3286 UG/L
10) L2 Aroclor-1260-4	9.669	1408478880	1885.7755 UG/L
11) L2 Aroclor-1260-5	10.502	316287424	1829.3680 UG/L
Sum Aroclor-1260-1		4350.4E6	9013.4504 UG/L
Average Aroclor-1260-1			1802.690 UG/L

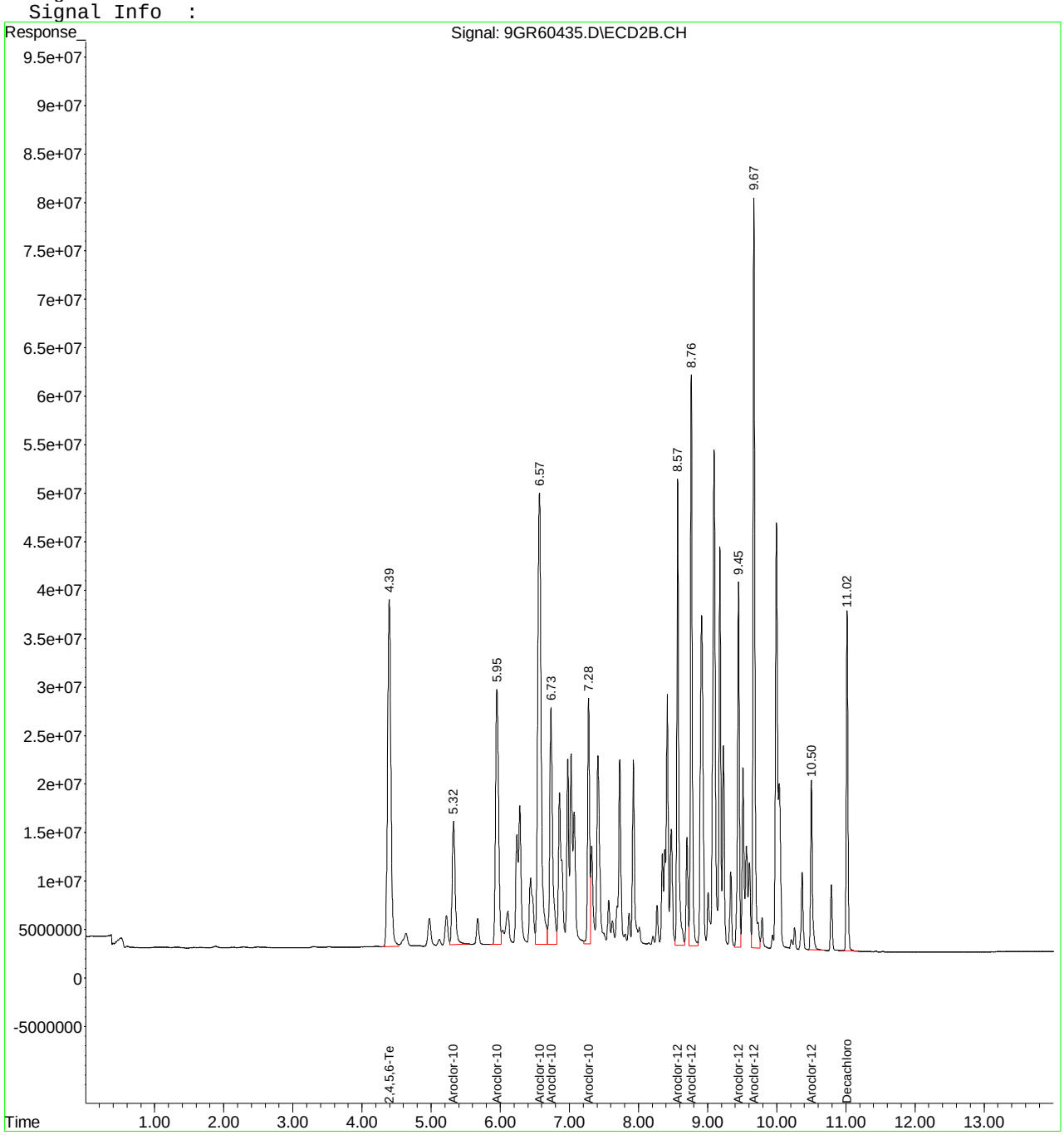
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60435.D Vial: 2
Acq On : 18 Feb 2011 17:22 Operator: ECL
Sample : WG357030-01 1660 ICAL 2000 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60436.D Vial: 3
Acq On : 18 Feb 2011 17:39 Operator: ECL
Sample : WG357030-02 1660 ICAL 1000 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03:20 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

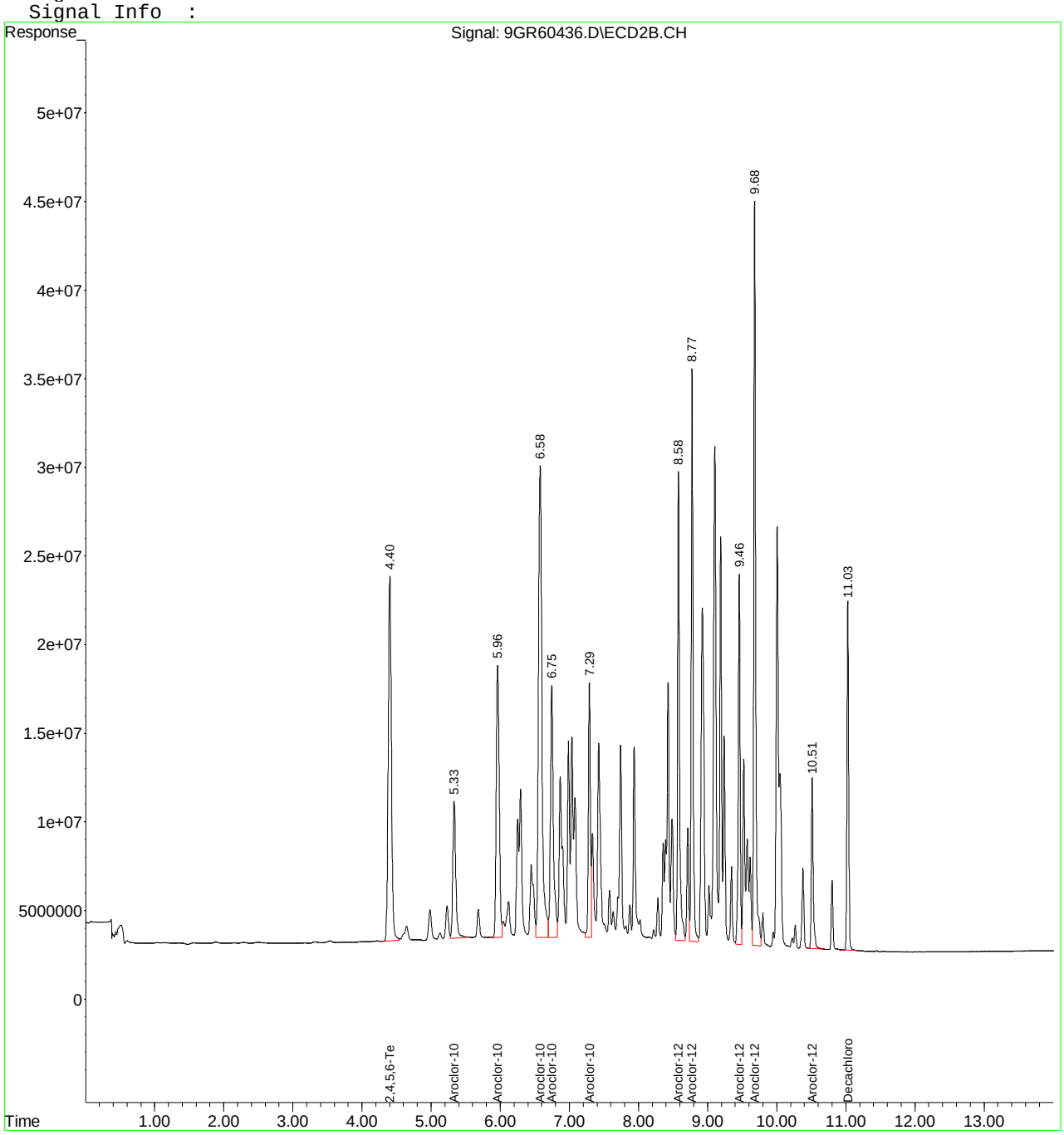
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.404	659324825	48.4664 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	242.33%#
12) S Decachlorobiphenyl	11.028	323617292	47.2569 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	236.28%#
Target Compounds			
2) L1 Aroclor-1016-1	5.332	227700571	974.6836 UG/L
3) L1 Aroclor-1016-2	5.961	464161119	939.4881 UG/L
4) L1 Aroclor-1016-3	6.578	918936772	1013.1476 UG/L
5) L1 Aroclor-1016-4	6.746	412690661	998.3017 UG/L
6) L1 Aroclor-1016-5	7.290	284673012	1003.8246 UG/L
Sum Aroclor-1016-1		2308.2E6	4929.4455 UG/L
Average Aroclor-1016-1			985.889 UG/L
7) L2 Aroclor-1260-1	8.578	514138531	973.2263 UG/L
8) L2 Aroclor-1260-2	8.774	592698151	1000.4924 UG/L
9) L2 Aroclor-1260-3	9.458	377842297	1021.0522 UG/L
10) L2 Aroclor-1260-4	9.680	784361371	1050.1609 UG/L
11) L2 Aroclor-1260-5	10.513	179602130	1038.7969 UG/L
Sum Aroclor-1260-1		2448.6E6	5083.7288 UG/L
Average Aroclor-1260-1			1016.746 UG/L

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60436.D Vial: 3
Acq On : 18 Feb 2011 17:39 Operator: ECL
Sample : WG357030-02 1660 ICAL 1000 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60437.D Vial: 4
Acq On : 18 Feb 2011 17:57 Operator: ECL
Sample : WG357030-03 1660 ICAL 500 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03:24 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.402	329113313	24.1929 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	120.96%
12) S Decachlorobiphenyl	11.022	165674207	24.1929 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	120.96%
Target Compounds			
2) L1 Aroclor-1016-1	5.329	113745189	486.8919 UG/L
3) L1 Aroclor-1016-2	5.957	237649882	481.0167 UG/L
4) L1 Aroclor-1016-3	6.574	455360787	502.0451 UG/L
5) L1 Aroclor-1016-4	6.741	214095627	517.8989 UG/L
6) L1 Aroclor-1016-5	7.284	143825322	507.1622 UG/L
Sum Aroclor-1016-1		1164.7E6	2495.0147 UG/L
Average Aroclor-1016-1			499.003 UG/L
7) L2 Aroclor-1260-1	8.572	252147157	477.2959 UG/L
8) L2 Aroclor-1260-2	8.769	285363329	481.7020 UG/L
9) L2 Aroclor-1260-3	9.452	181537976	490.5744 UG/L
10) L2 Aroclor-1260-4	9.674	370724156	496.3529 UG/L
11) L2 Aroclor-1260-5	10.507	87856968	508.1540 UG/L
Sum Aroclor-1260-1		1177.6E6	2454.0792 UG/L
Average Aroclor-1260-1			490.816 UG/L

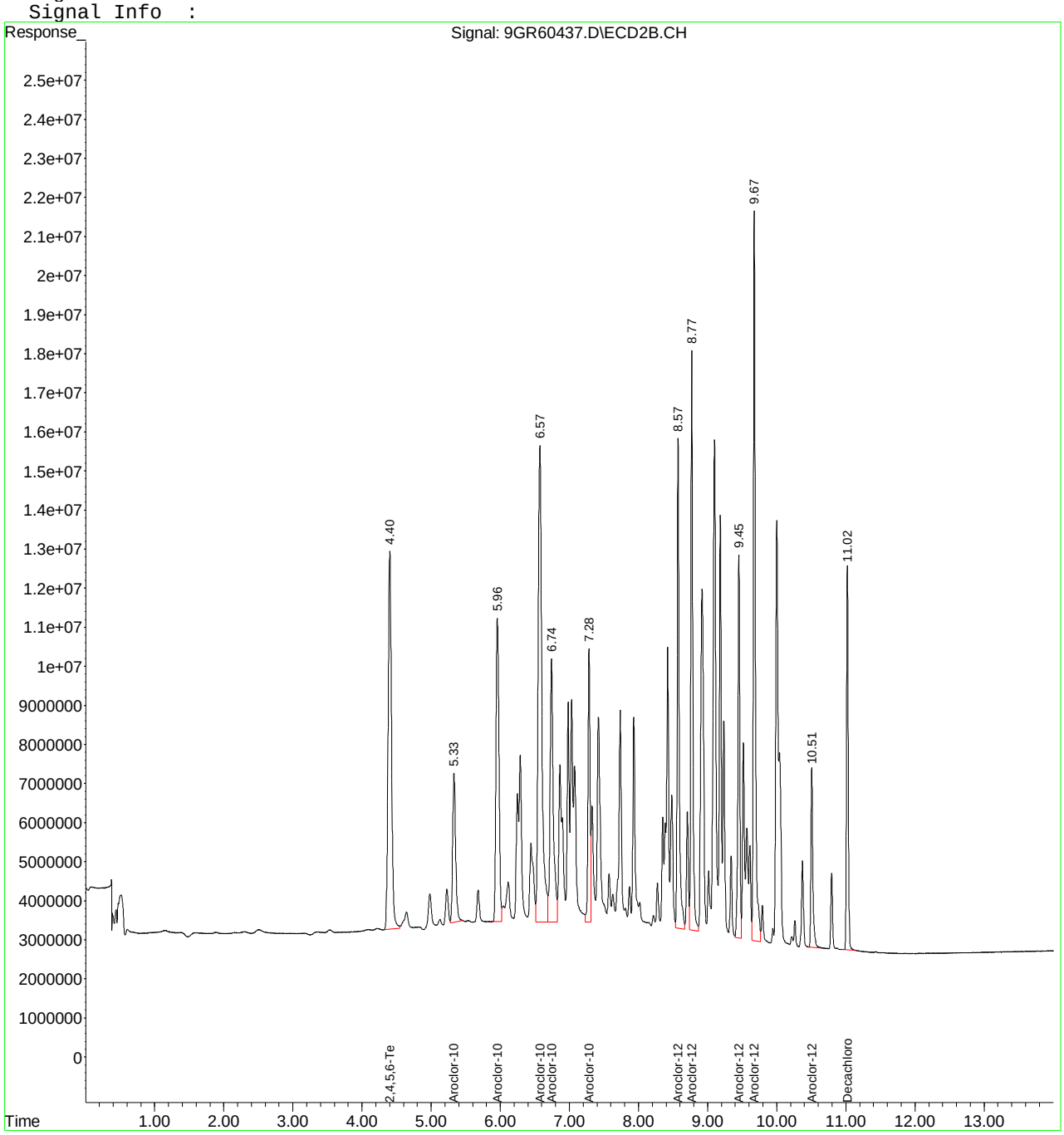
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60437.D 1660R.M Sat Feb 19 12:04:13 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60437.D Vial: 4
Acq On : 18 Feb 2011 17:57 Operator: ECL
Sample : WG357030-03 1660 ICAL 500 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60438.D Vial: 5
Acq On : 18 Feb 2011 18:15 Operator: ECL
Sample : WG357030-04 1660 ICAL 250 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03:29 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.404	171358622	12.5964 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery = 62.98%	
12) S Decachlorobiphenyl	11.025	85381848	12.4681 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery = 62.34%	
Target Compounds			
2) L1 Aroclor-1016-1	5.333	59338318	254.0006 UG/L
3) L1 Aroclor-1016-2	5.961	130743049	264.6312 UG/L
4) L1 Aroclor-1016-3	6.577	226620088	249.8535 UG/L
5) L1 Aroclor-1016-4	6.745	106332530	257.2192 UG/L
6) L1 Aroclor-1016-5	7.288	68869989	242.8519 UG/L
Sum Aroclor-1016-1		591.9E6	1268.5565 UG/L
Average Aroclor-1016-1			253.711 UG/L
7) L2 Aroclor-1260-1	8.575	128156240	242.5903 UG/L
8) L2 Aroclor-1260-2	8.772	143657393	242.4980 UG/L
9) L2 Aroclor-1260-3	9.455	89132117	240.8638 UG/L
10) L2 Aroclor-1260-4	9.678	182611078	244.4932 UG/L
11) L2 Aroclor-1260-5	10.510	42726536	247.1251 UG/L
Sum Aroclor-1260-1		586.3E6	1217.5705 UG/L
Average Aroclor-1260-1			243.514 UG/L

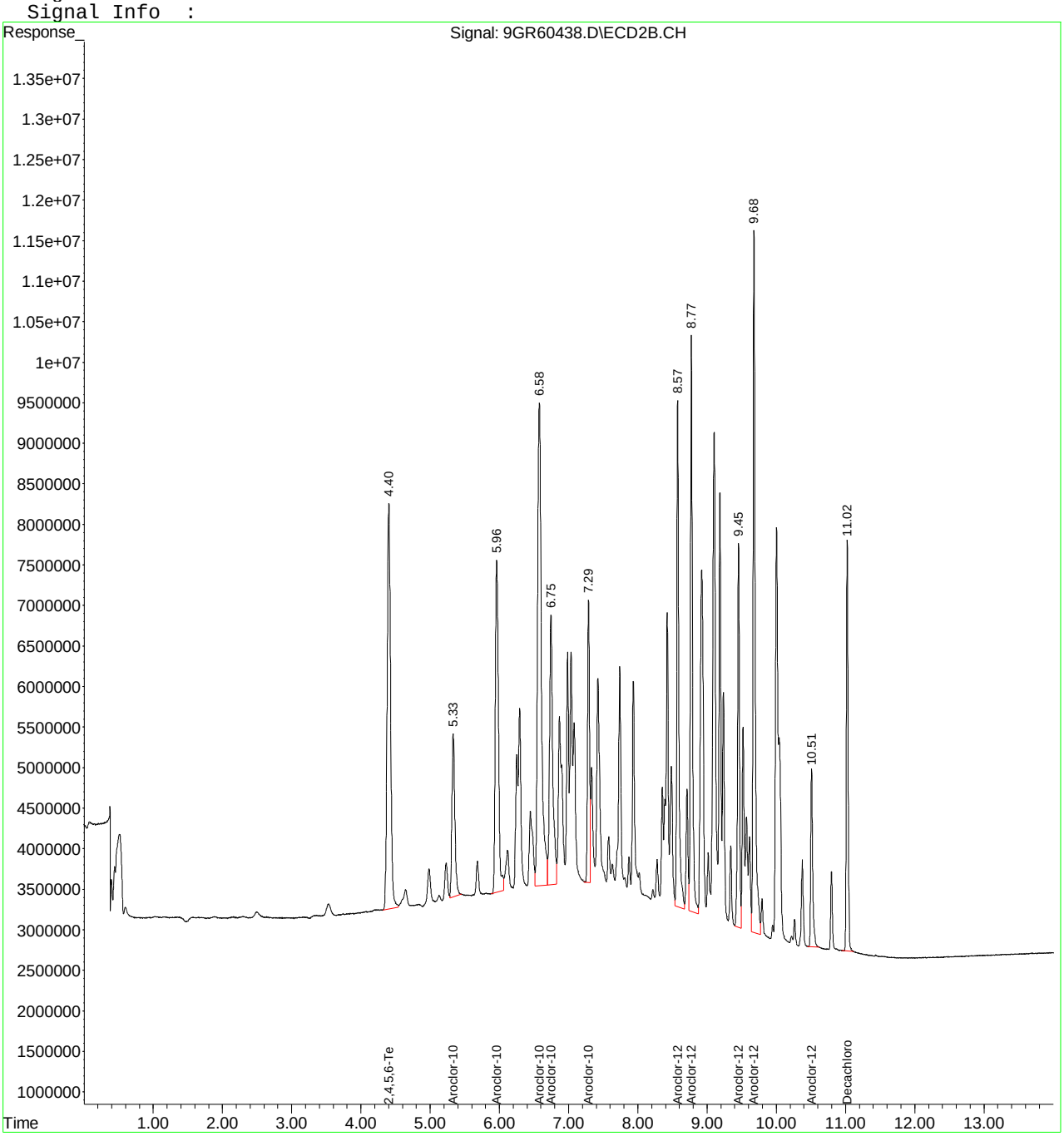
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60438.D 1660R.M Sat Feb 19 12:04:14 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60438.D Vial: 5
Acq On : 18 Feb 2011 18:15 Operator: ECL
Sample : WG357030-04 1660 ICAL 250 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60439.D Vial: 6
Acq On : 18 Feb 2011 18:33 Operator: ECL
Sample : WG357030-05 1660 ICAL 100 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03:33 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.409	72246592	5.3108 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	26.55%#
12) S Decachlorobiphenyl	11.023	36939540	5.3942 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	26.97%#
Target Compounds			
2) L1 Aroclor-1016-1	5.334	25110036	107.4848 UG/L
3) L1 Aroclor-1016-2	5.963	52692398	106.6524 UG/L
4) L1 Aroclor-1016-3	6.578	92709637	102.2144 UG/L
5) L1 Aroclor-1016-4	6.746	43265285	104.6590 UG/L
6) L1 Aroclor-1016-5	7.288	29752260	104.9135 UG/L
Sum Aroclor-1016-1		243.5E6	525.9241 UG/L
Average Aroclor-1016-1			105.185 UG/L
7) L2 Aroclor-1260-1	8.575	58247230	110.2577 UG/L
8) L2 Aroclor-1260-2	8.771	63802375	107.7003 UG/L
9) L2 Aroclor-1260-3	9.454	37816193	102.1916 UG/L
10) L2 Aroclor-1260-4	9.677	73370910	98.2344 UG/L
11) L2 Aroclor-1260-5	10.509	17375454	100.4975 UG/L
Sum Aroclor-1260-1		250.6E6	518.8816 UG/L
Average Aroclor-1260-1			103.776 UG/L

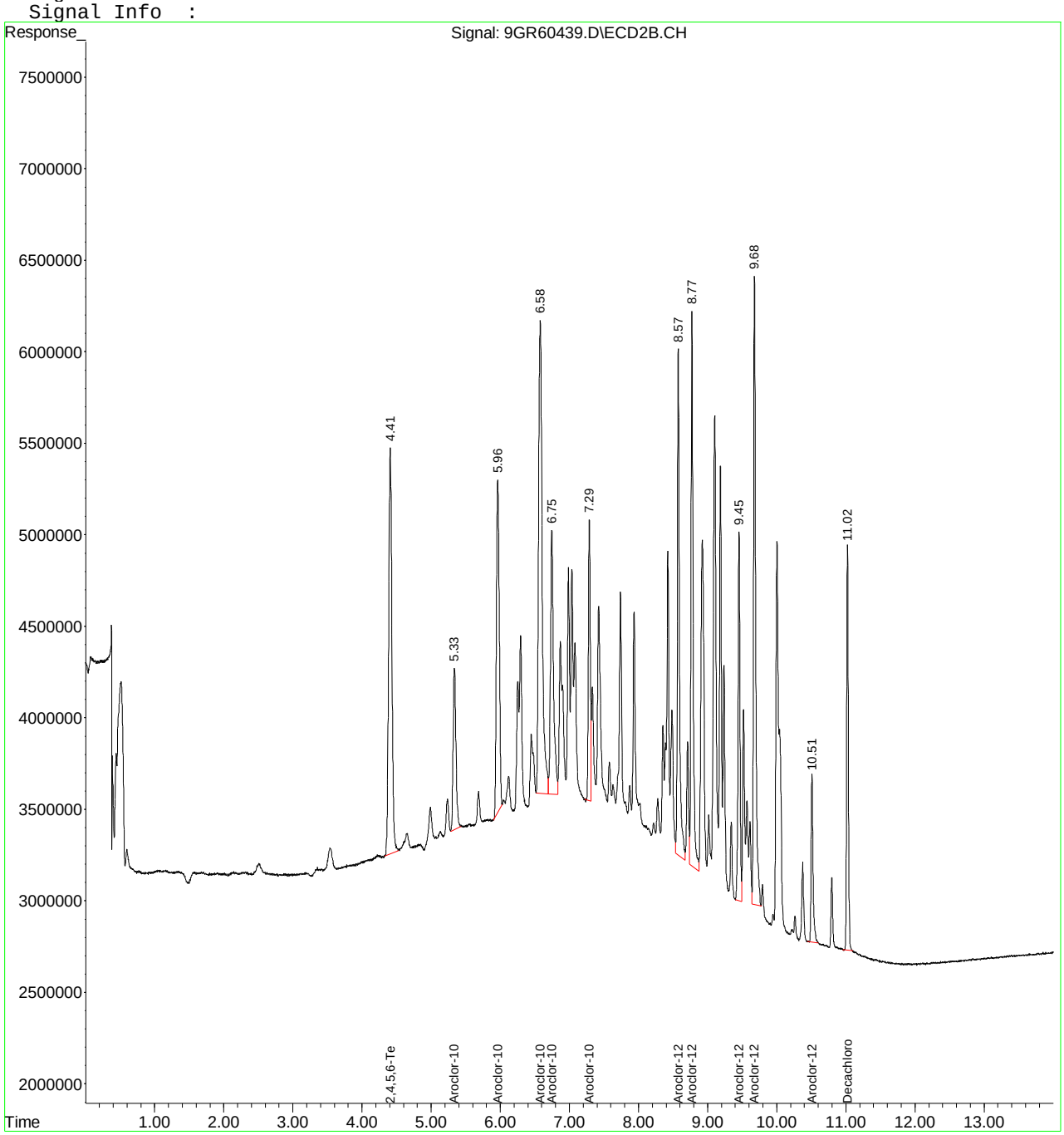
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60439.D Vial: 6
Acq On : 18 Feb 2011 18:33 Operator: ECL
Sample : WG357030-05 1660 ICAL 100 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60440.D Vial: 7
Acq On : 18 Feb 2011 18:51 Operator: ECL
Sample : WG357030-06 1660 ICAL 50 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03:01 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.405	37894920	2.7856 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	13.93%#
12) S Decachlorobiphenyl	11.029	20267971	2.9597 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	14.80%#
Target Compounds			
2) L1 Aroclor-1016-1	5.333	13113634	56.1336 UG/L
3) L1 Aroclor-1016-2	5.961	28686776	58.0636 UG/L
4) L1 Aroclor-1016-3	6.576	48877494	53.8885 UG/L
5) L1 Aroclor-1016-4	6.746	21484822	51.9719 UG/L
6) L1 Aroclor-1016-5	7.288	15364885	54.1802 UG/L
Sum Aroclor-1016-1		127.5E6	274.2379 UG/L
Average Aroclor-1016-1			54.848 UG/L
7) L2 Aroclor-1260-1	8.576	30172169	57.1137 UG/L
8) L2 Aroclor-1260-2	8.773	32688654	55.1794 UG/L
9) L2 Aroclor-1260-3	9.457	20459490	55.2882 UG/L
10) L2 Aroclor-1260-4	9.680	39358784	52.6964 UG/L
11) L2 Aroclor-1260-5	10.513	8962286	51.8368 UG/L
Sum Aroclor-1260-1		131.6E6	272.1145 UG/L
Average Aroclor-1260-1			54.423 UG/L

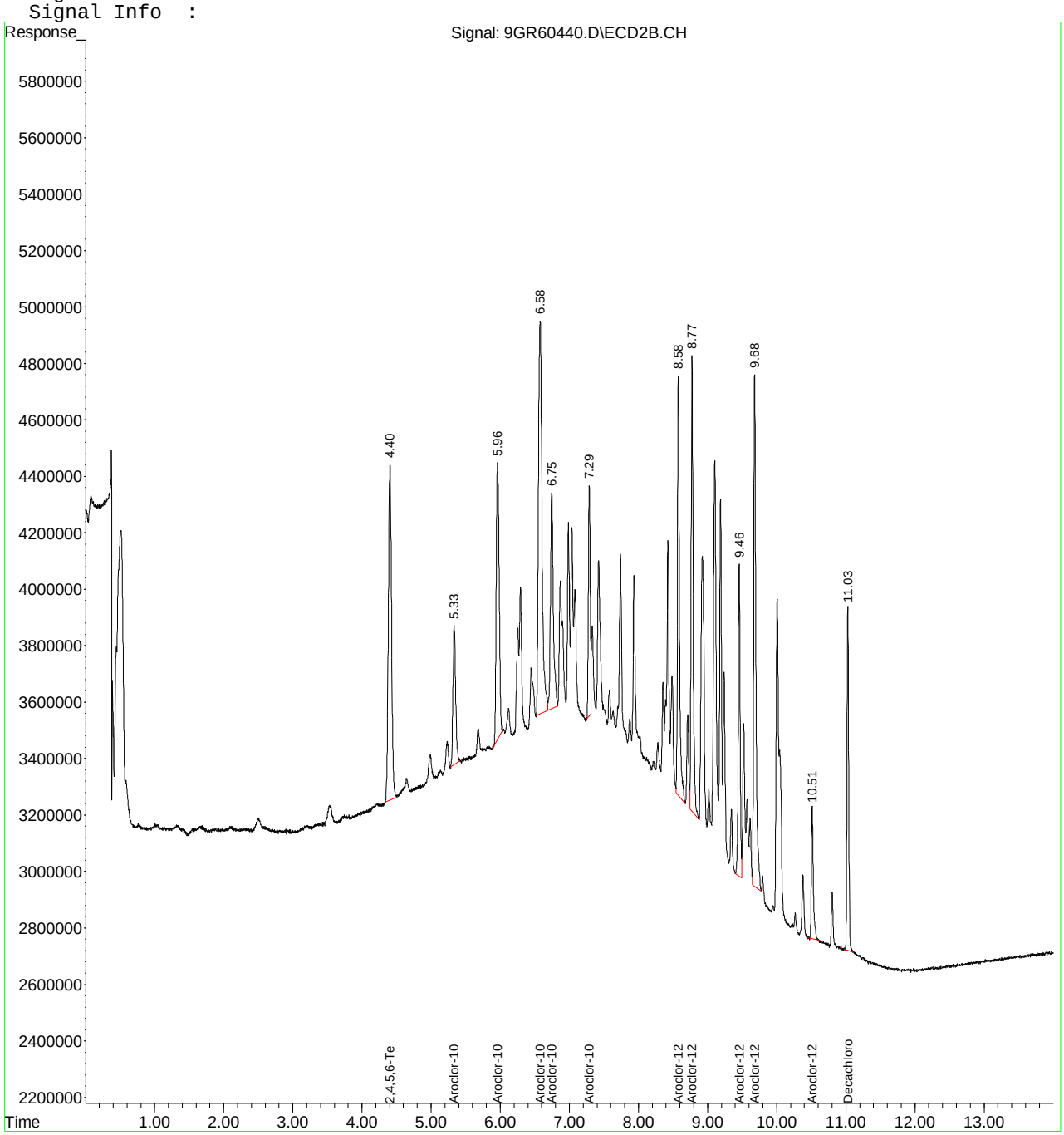
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60440.D Vial: 7
Acq On : 18 Feb 2011 18:51 Operator: ECL
Sample : WG357030-06 1660 ICAL 50 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60441.D Vial: 8
Acq On : 18 Feb 2011 19:09 Operator: ECL
Sample : WG357030-07 1660 ICAL 250 PPB Inst : HP9
Misc : 1,1 STD42874 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03:42 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	0.000	0	N.D. UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	0.00%#
12) S Decachlorobiphenyl	0.000	0	N.D. UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	0.00%#
Target Compounds			
2) L1 Aroclor-1016-1	5.332	54658432	233.9681 UG/L
3) L1 Aroclor-1016-2	5.958	112567552	227.8430 UG/L
4) L1 Aroclor-1016-3	6.574	198562720	218.9197 UG/L
5) L1 Aroclor-1016-4	6.741	92883819	224.6866 UG/L
6) L1 Aroclor-1016-5	7.283	61357351	216.3606 UG/L
Sum Aroclor-1016-1		520.0E6	1121.7780 UG/L
Average Aroclor-1016-1			224.356 UG/L
7) L2 Aroclor-1260-1	8.569	116177194	219.9148 UG/L
8) L2 Aroclor-1260-2	8.766	132634374	223.8908 UG/L
9) L2 Aroclor-1260-3	9.449	89322906	241.3794 UG/L
10) L2 Aroclor-1260-4	9.672	186468624	249.6580 UG/L
11) L2 Aroclor-1260-5	10.504	49194224	284.5334 UG/L
Sum Aroclor-1260-1		573.8E6	1219.3765 UG/L
Average Aroclor-1260-1			243.875 UG/L

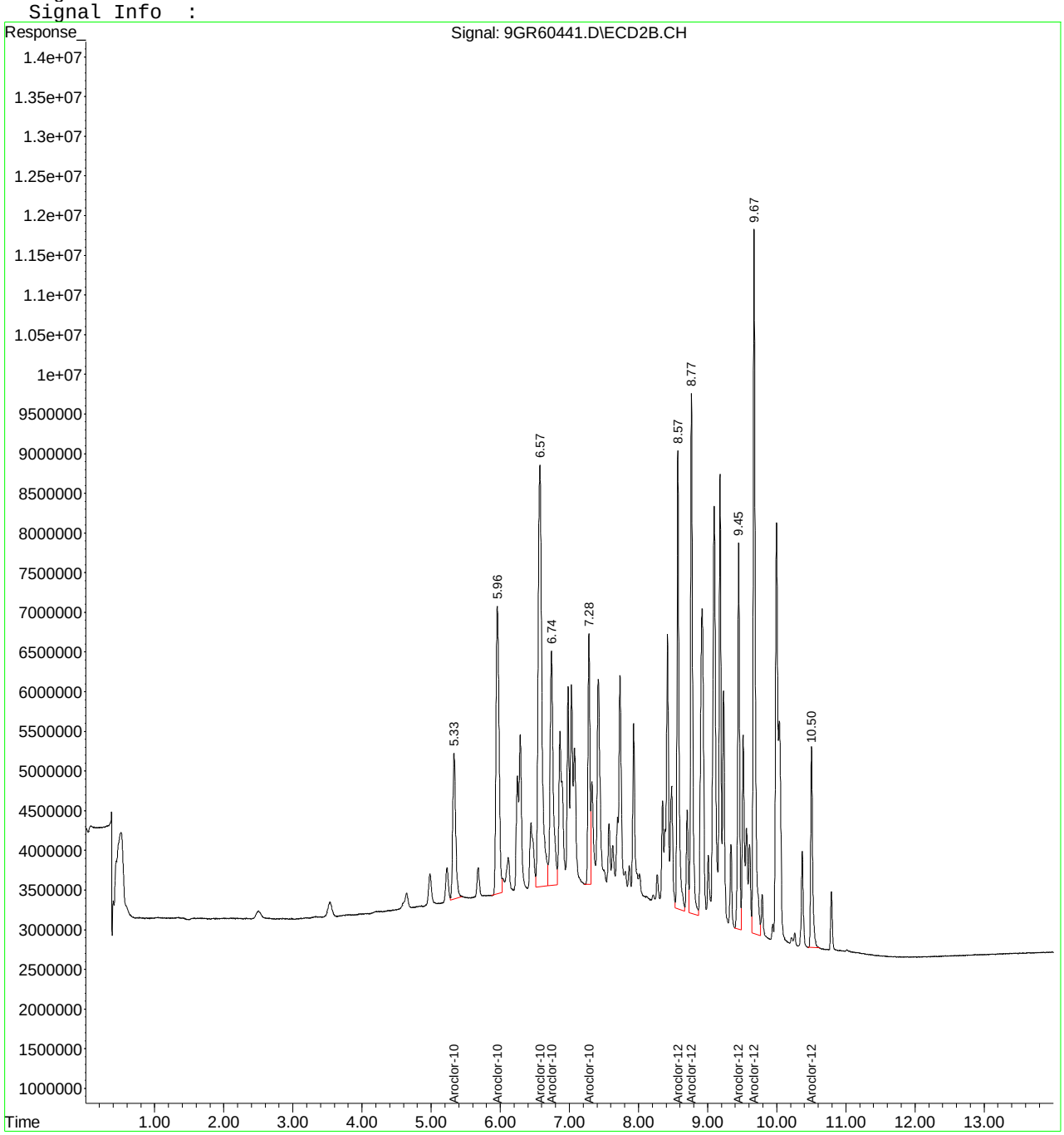
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60441.D 1660R.M Sat Feb 19 12:04:16 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\021811\9GR60441.D Vial: 8
Acq On : 18 Feb 2011 19:09 Operator: ECL
Sample : WG357030-07 1660 ICAL 250 PPB Inst : HP9
Misc : 1,1 STD42874 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 19 12:03 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60477.D Vial: 13
Acq On : 21 Feb 2011 17:28 Operator: ECL
Sample : WG357031-04 1660 CCV 250 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:29:10 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.408	176649811	12.9854 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery = 64.93%	
12) S Decachlorobiphenyl	11.020	92562992	13.5167 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery = 67.58%	
Target Compounds			
2) L1 Aroclor-1016-1	5.332	63962229	273.7935 UG/L
3) L1 Aroclor-1016-2	5.959	133777900	270.7740 UG/L
4) L1 Aroclor-1016-3	6.576	251242488	277.0002 UG/L
5) L1 Aroclor-1016-4	6.742	113126571	273.6540 UG/L
6) L1 Aroclor-1016-5	7.284	75017140	264.5282 UG/L
Sum Aroclor-1016-1		637.1E6	1359.7499 UG/L
Average Aroclor-1016-1			271.950 UG/L
7) L2 Aroclor-1260-1	8.570	143428742	271.5000 UG/L
8) L2 Aroclor-1260-2	8.767	163529726	276.0431 UG/L
9) L2 Aroclor-1260-3	9.450	103841955	280.6146 UG/L
10) L2 Aroclor-1260-4	9.672	213992495	286.5090 UG/L
11) L2 Aroclor-1260-5	10.504	50238800	290.5751 UG/L
Sum Aroclor-1260-1		675.0E6	1405.2418 UG/L
Average Aroclor-1260-1			281.048 UG/L

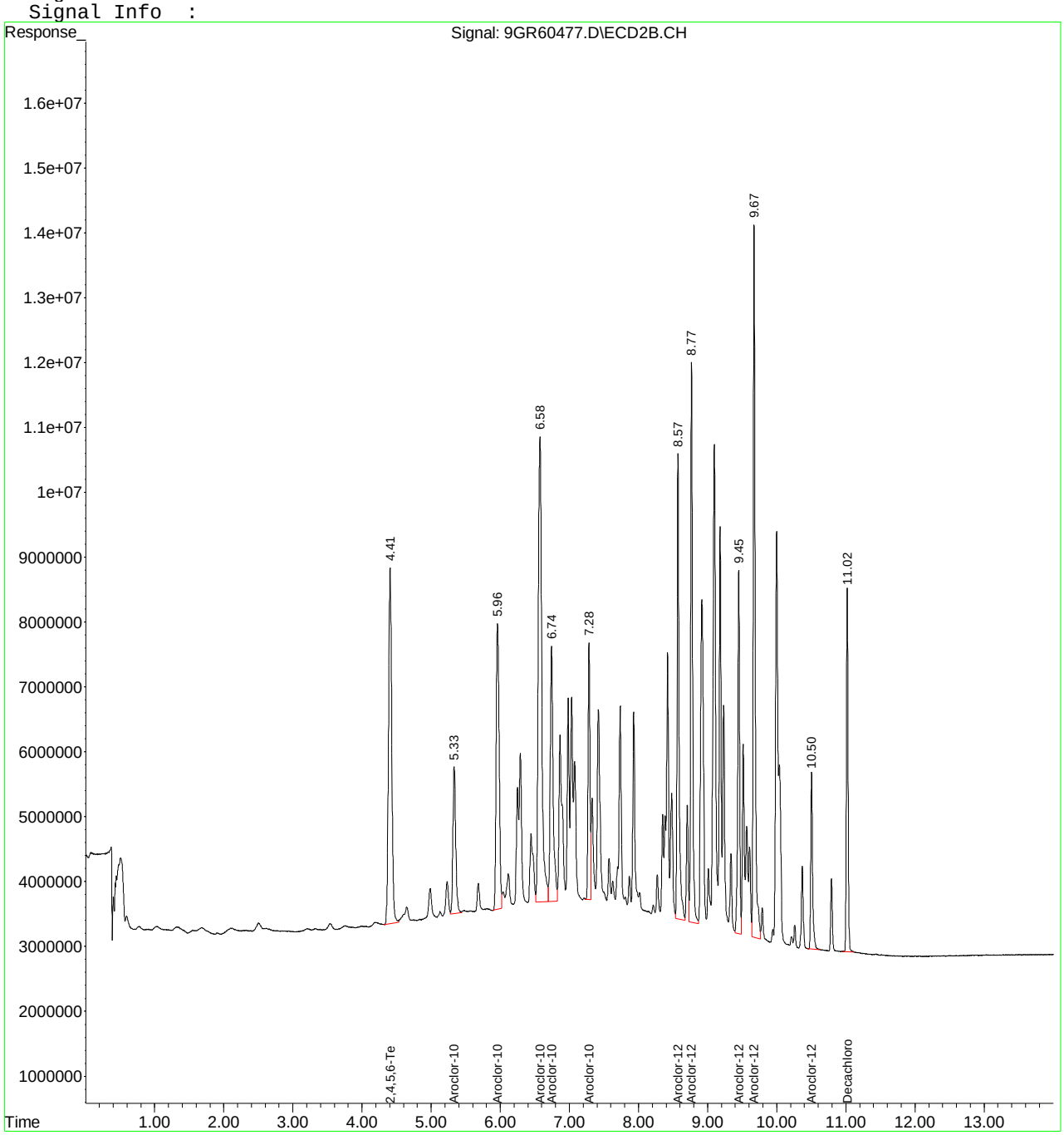
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60477.D 1660R.M Tue Feb 22 08:29:24 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60477.D Vial: 13
Acq On : 21 Feb 2011 17:28 Operator: ECL
Sample : WG357031-04 1660 CCV 250 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:29 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60487.D Vial: 23
Acq On : 21 Feb 2011 20:28 Operator: ECL
Sample : WG357031-05 1660 CCV 500 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:29:29 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.408	332781613	24.4625 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	122.31%
12) S Decachlorobiphenyl	11.022	164637515	24.0416 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	120.21%
Target Compounds			
2) L1 Aroclor-1016-1	5.334	115723013	495.3581 UG/L
3) L1 Aroclor-1016-2	5.959	240137908	486.0526 UG/L
4) L1 Aroclor-1016-3	6.576	465649026	513.3881 UG/L
5) L1 Aroclor-1016-4	6.743	207447184	501.8162 UG/L
6) L1 Aroclor-1016-5	7.285	139716718	492.6743 UG/L
Sum Aroclor-1016-1		1168.7E6	2489.2893 UG/L
Average Aroclor-1016-1			497.858 UG/L
7) L2 Aroclor-1260-1	8.572	264570526	500.8125 UG/L
8) L2 Aroclor-1260-2	8.768	298566864	503.9899 UG/L
9) L2 Aroclor-1260-3	9.452	191468363	517.4095 UG/L
10) L2 Aroclor-1260-4	9.673	387757710	519.1587 UG/L
11) L2 Aroclor-1260-5	10.506	91403944	528.6693 UG/L
Sum Aroclor-1260-1		1233.8E6	2570.0399 UG/L
Average Aroclor-1260-1			514.008 UG/L

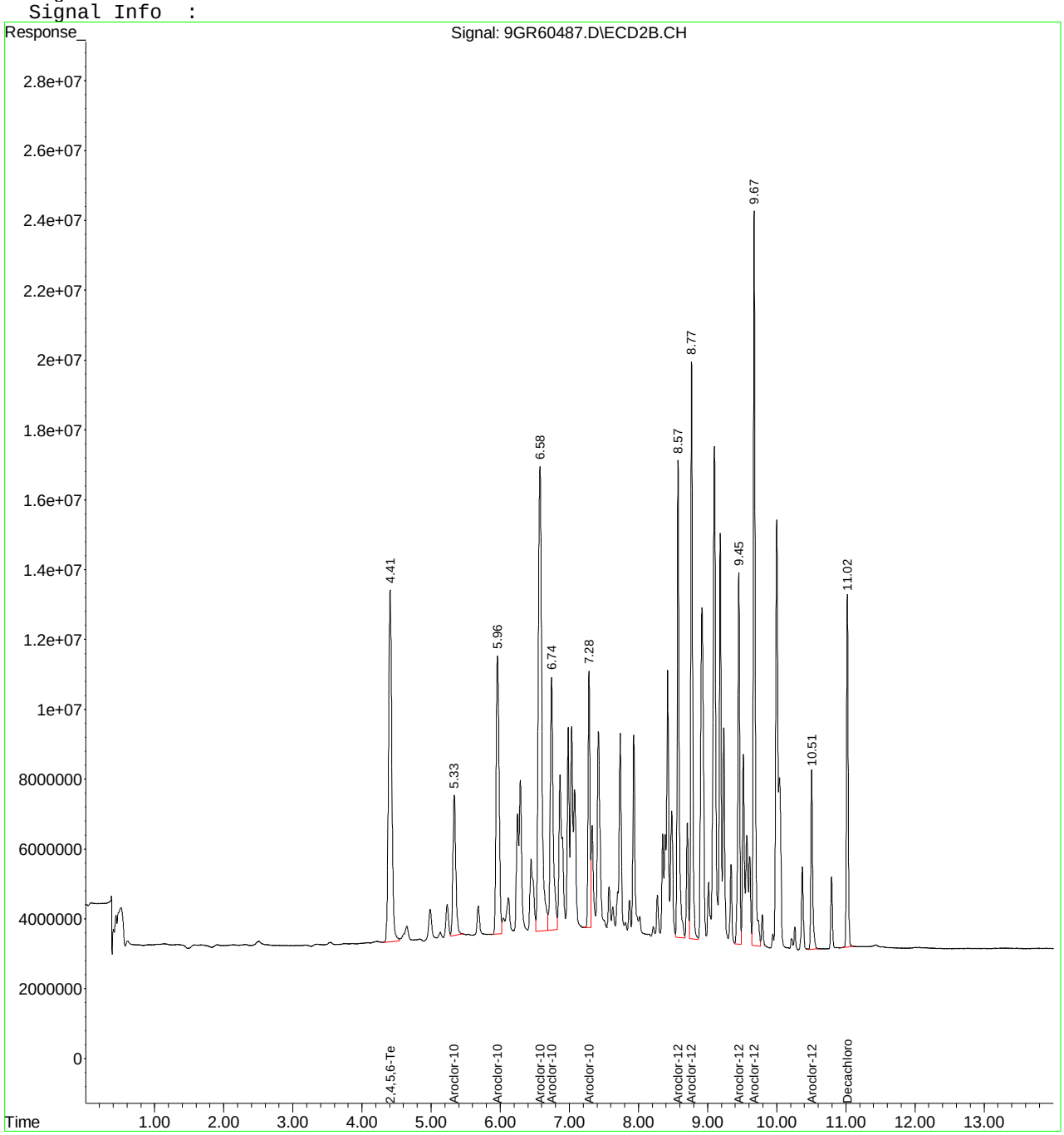
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60487.D 1660R.M Tue Feb 22 08:29:43 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60487.D Vial: 23
Acq On : 21 Feb 2011 20:28 Operator: ECL
Sample : WG357031-05 1660 CCV 500 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:29 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60498.D Vial: 34
Acq On : 21 Feb 2011 23:46 Operator: ECL
Sample : WG357031-06 1660 CCV 250 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:33:39 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.400	183432483	13.4840 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery = 67.42%	
12) S Decachlorobiphenyl	11.022	97124310	14.1828 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery = 70.91%	
Target Compounds			
2) L1 Aroclor-1016-1	5.327	65767103	281.5193 UG/L
3) L1 Aroclor-1016-2	5.955	132145827	267.4705 UG/L
4) L1 Aroclor-1016-3	6.572	265759243	293.0053 UG/L
5) L1 Aroclor-1016-4	6.740	117578194	284.4225 UG/L
6) L1 Aroclor-1016-5	7.282	79653710	280.8779 UG/L
Sum Aroclor-1016-1		660.9E6	1407.2956 UG/L
Average Aroclor-1016-1			281.459 UG/L
7) L2 Aroclor-1260-1	8.570	154358938	292.1901 UG/L
8) L2 Aroclor-1260-2	8.767	175126959	295.6196 UG/L
9) L2 Aroclor-1260-3	9.451	111999500	302.6589 UG/L
10) L2 Aroclor-1260-4	9.673	224957378	301.1895 UG/L
11) L2 Aroclor-1260-5	10.506	51224562	296.2766 UG/L
Sum Aroclor-1260-1		717.7E6	1487.9348 UG/L
Average Aroclor-1260-1			297.587 UG/L

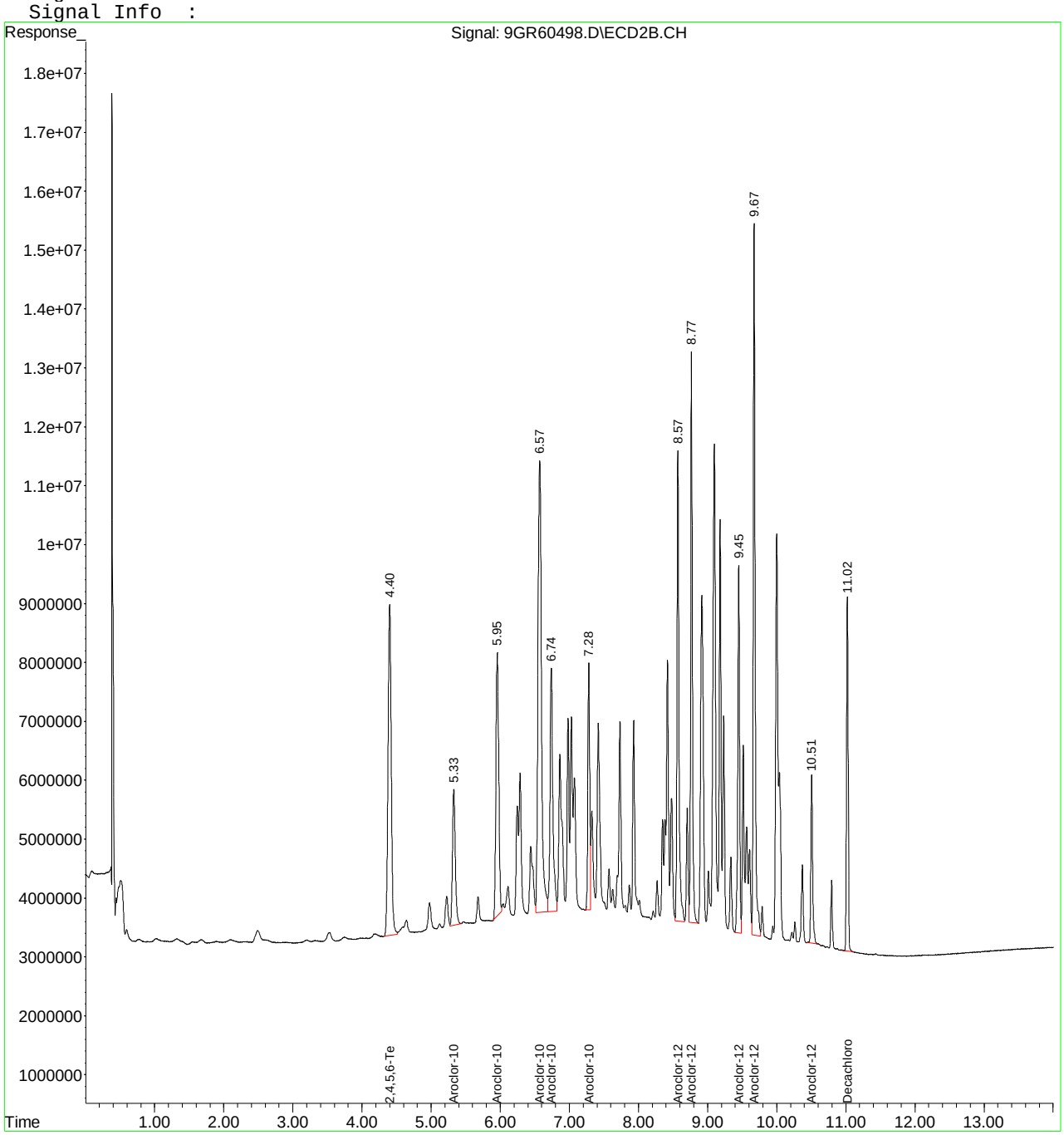
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60498.D 1660R.M Tue Feb 22 08:33:57 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60498.D Vial: 34
Acq On : 21 Feb 2011 23:46 Operator: ECL
Sample : WG357031-06 1660 CCV 250 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:33 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60506.D Vial: 39
Acq On : 22 Feb 2011 2:10 Operator: ECL
Sample : WG357031-07 1660 CCV 500 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:34:25 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.401	347669956	25.5569 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	127.78%
12) S Decachlorobiphenyl	11.020	163315584	23.8485 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	119.24%
Target Compounds			
2) L1 Aroclor-1016-1	5.328	123148569	527.1436 UG/L
3) L1 Aroclor-1016-2	5.955	252722212	511.5239 UG/L
4) L1 Aroclor-1016-3	6.572	498122484	549.1908 UG/L
5) L1 Aroclor-1016-4	6.739	215362734	520.9640 UG/L
6) L1 Aroclor-1016-5	7.282	151867565	535.5211 UG/L
Sum Aroclor-1016-1		1241.2E6	2644.3433 UG/L
Average Aroclor-1016-1			528.869 UG/L
7) L2 Aroclor-1260-1	8.569	267646636	506.6353 UG/L
8) L2 Aroclor-1260-2	8.765	315401590	532.4074 UG/L
9) L2 Aroclor-1260-3	9.449	198370077	536.0602 UG/L
10) L2 Aroclor-1260-4	9.670	410272525	549.3031 UG/L
11) L2 Aroclor-1260-5	10.503	91577352	529.6723 UG/L
Sum Aroclor-1260-1		1283.3E6	2654.0784 UG/L
Average Aroclor-1260-1			530.816 UG/L

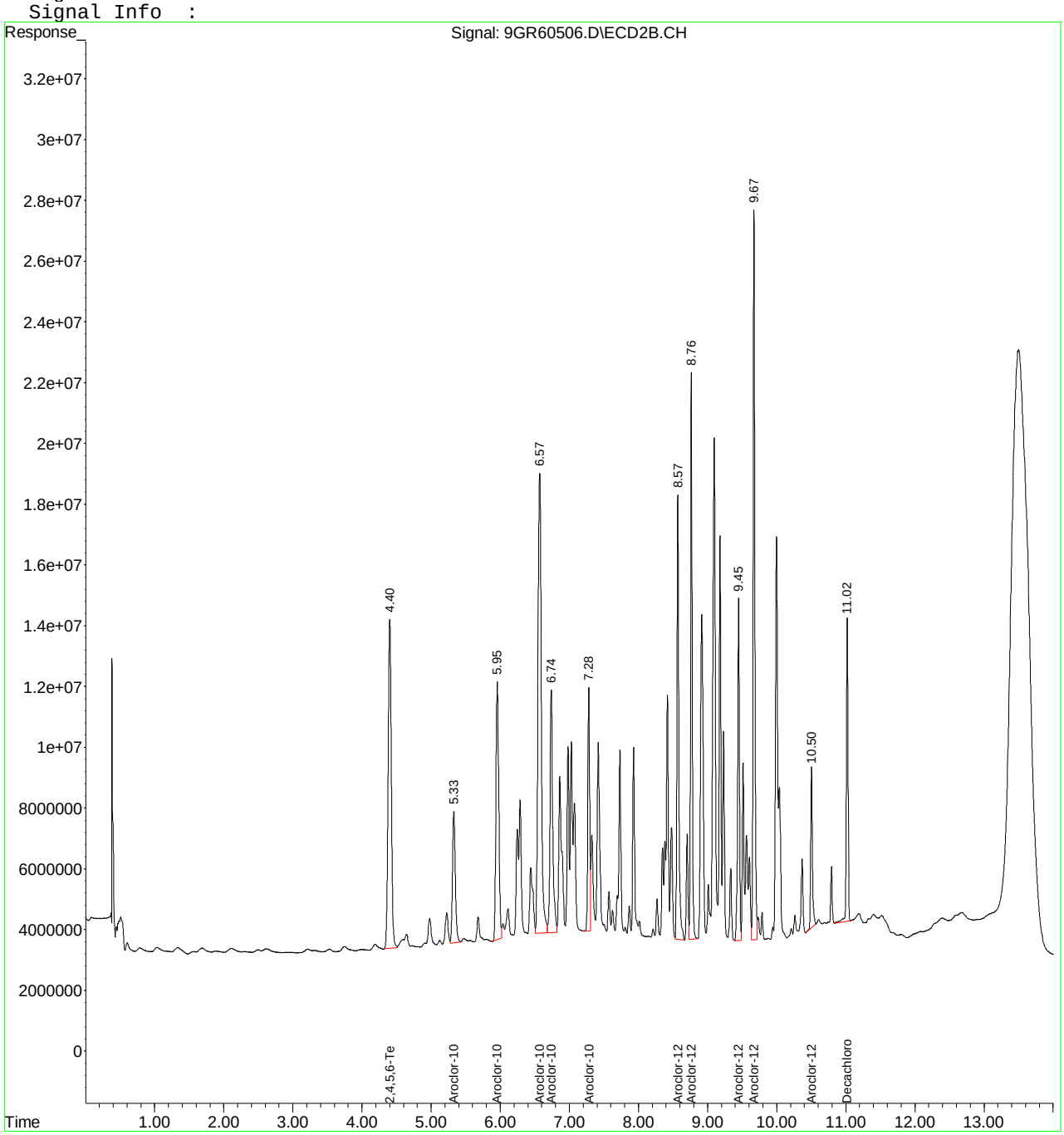
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60506.D 1660R.M Tue Feb 22 08:34:39 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60506.D Vial: 39
Acq On : 22 Feb 2011 2:10 Operator: ECL
Sample : WG357031-07 1660 CCV 500 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:34 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022211\9GR60508.D Vial: 2
Acq On : 22 Feb 2011 11:11 Operator: ECL
Sample : WG357211-01 1660 CCV 500 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 12:02:29 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.418	332302998	24.4273 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	122.14%
12) S Decachlorobiphenyl	11.025	173562012	25.3448 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	126.72%
Target Compounds			
2) L1 Aroclor-1016-1	5.343	115753164	495.4872 UG/L
3) L1 Aroclor-1016-2	5.970	244015958	493.9020 UG/L
4) L1 Aroclor-1016-3	6.586	482098590	531.5241 UG/L
5) L1 Aroclor-1016-4	6.752	214719303	519.4075 UG/L
6) L1 Aroclor-1016-5	7.294	147326125	519.5069 UG/L
Sum Aroclor-1016-1		1203.9E6	2559.8276 UG/L
Average Aroclor-1016-1			511.966 UG/L
7) L2 Aroclor-1260-1	8.579	284203584	537.9764 UG/L
8) L2 Aroclor-1260-2	8.775	324260777	547.3620 UG/L
9) L2 Aroclor-1260-3	9.457	207912008	561.8456 UG/L
10) L2 Aroclor-1260-4	9.679	410671841	549.8378 UG/L
11) L2 Aroclor-1260-5	10.509	97857908	565.9983 UG/L
Sum Aroclor-1260-1		1324.9E6	2763.0200 UG/L
Average Aroclor-1260-1			552.604 UG/L

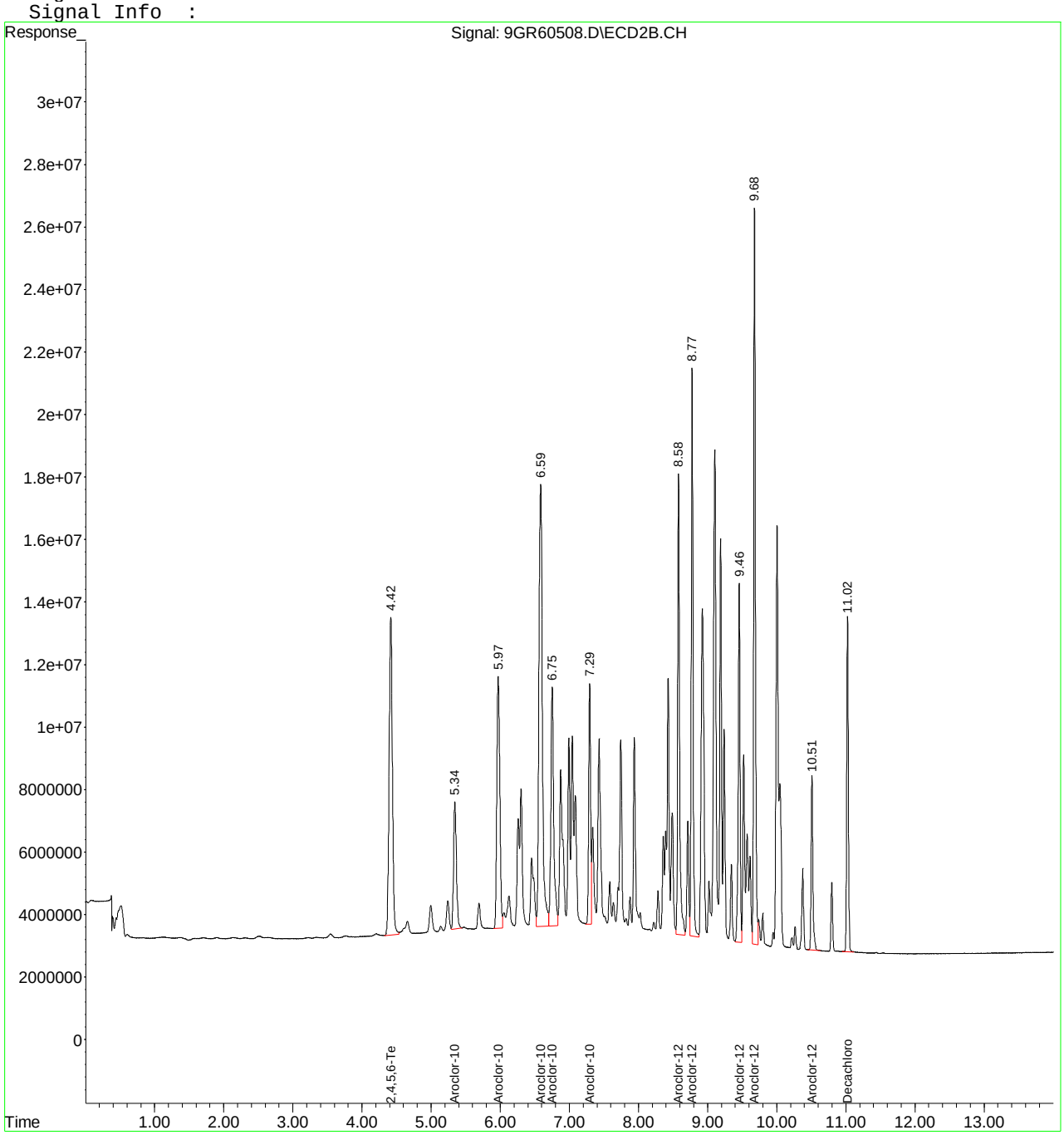
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022211\9GR60508.D Vial: 2
Acq On : 22 Feb 2011 11:11 Operator: ECL
Sample : WG357211-01 1660 CCV 500 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 12:02 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022211\9GR60520.D Vial: 13
Acq On : 22 Feb 2011 15:44 Operator: ECL
Sample : WG357211-02 1660 CCV 250 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 16:53:46 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.410	173277989	12.7375 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	63.69%
12) S Decachlorobiphenyl	11.030	83240691	12.1554 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	60.78%
Target Compounds			
2) L1 Aroclor-1016-1	5.338	64635050	276.6735 UG/L
3) L1 Aroclor-1016-2	5.967	134154362	271.5359 UG/L
4) L1 Aroclor-1016-3	6.583	266424058	293.7383 UG/L
5) L1 Aroclor-1016-4	6.751	115920908	280.4135 UG/L
6) L1 Aroclor-1016-5	7.294	78694235	277.4945 UG/L
Sum Aroclor-1016-1		659.8E6	1399.8558 UG/L
Average Aroclor-1016-1			279.971 UG/L
7) L2 Aroclor-1260-1	8.581	150927002	285.6937 UG/L
8) L2 Aroclor-1260-2	8.776	172124697	290.5517 UG/L
9) L2 Aroclor-1260-3	9.460	106565113	287.9734 UG/L
10) L2 Aroclor-1260-4	9.681	211630780	283.3469 UG/L
11) L2 Aroclor-1260-5	10.514	48797517	282.2389 UG/L
Sum Aroclor-1260-1		690.0E6	1429.8046 UG/L
Average Aroclor-1260-1			285.961 UG/L

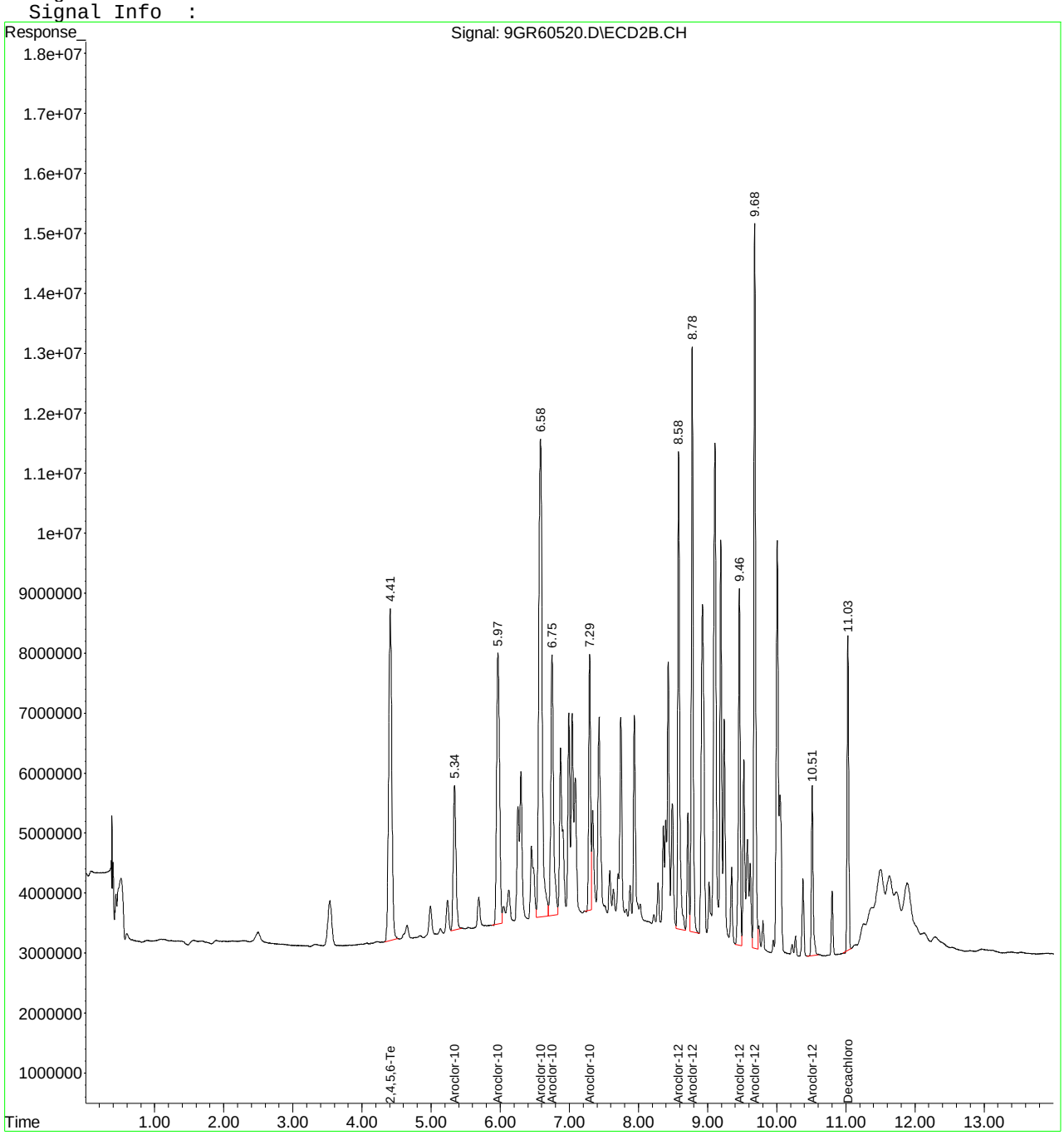
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60520.D 1660R.M Tue Feb 22 16:54:14 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022211\9GR60520.D Vial: 13
Acq On : 22 Feb 2011 15:44 Operator: ECL
Sample : WG357211-02 1660 CCV 250 PPB Inst : HP9
Misc : 1,1 STD43286 Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 16:53 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



RETENTION TIME WINDOWS

Lab Name: Microbac Laboratories

Instrument ID: HP-9 Rear Column
GC Column: RTx-CLP II

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	2/9/2009	2/12/2009	2/16/2009
File #	9GR50598	9GR50611	9GR50623

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
AR 1016 #1	5.495	5.501	5.484	0.026
AR 1016 #2	6.116	6.121	6.106	0.023
AR 1016 #3	6.722	6.727	6.716	0.017
AR 1016 #4	6.890	6.894	6.883	0.017
AR 1016 #5	7.429	7.432	7.423	0.014
AR 1260 #1	8.713	8.716	8.709	0.011
AR 1260 #2	8.906	8.908	8.901	0.011
AR 1260 #3	9.594	9.597	9.590	0.011
AR 1260 #4	9.813	9.816	9.809	0.011
AR 1260 #5	10.649	10.652	10.646	0.009
2,4,5,6-Tetrachloro-m-xylene	4.579	4.587	4.567	0.030
Decachlorobiphenyl	11.175	11.179	11.172	0.011

2.1.3.5 Raw QC Data

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60486.D Vial: 22
Acq On : 21 Feb 2011 20:10 Operator: ECL
Sample : WG356908-01 BLANK Inst : HP9
Misc : 1,1 WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:42:01 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.408	235180471	17.2879 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	86.44%
12) S Decachlorobiphenyl	11.020	115124504	16.8113 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	84.06%
Target Compounds			
2) L1 Aroclor-1016-1	5.309	5775010	24.7202 UG/L
3) L1 Aroclor-1016-2	0.000	0	N.D. UG/L
4) L1 Aroclor-1016-3	0.000	0	N.D. UG/L
5) L1 Aroclor-1016-4	0.000	0	N.D. UG/L
6) L1 Aroclor-1016-5	0.000	0	N.D. UG/L
Sum Aroclor-1016-1		5775010	24.7202 UG/L
Average Aroclor-1016-1			24.720 UG/L
7) L2 Aroclor-1260-1	0.000	0	N.D. UG/L
8) L2 Aroclor-1260-2	0.000	0	N.D. UG/L
9) L2 Aroclor-1260-3	0.000	0	N.D. UG/L
10) L2 Aroclor-1260-4	0.000	0	N.D. UG/L
11) L2 Aroclor-1260-5	0.000	0	N.D. UG/L
Sum Aroclor-1260-1		0	N.D. UG/L
Average Aroclor-1260-1			0.000 UG/L

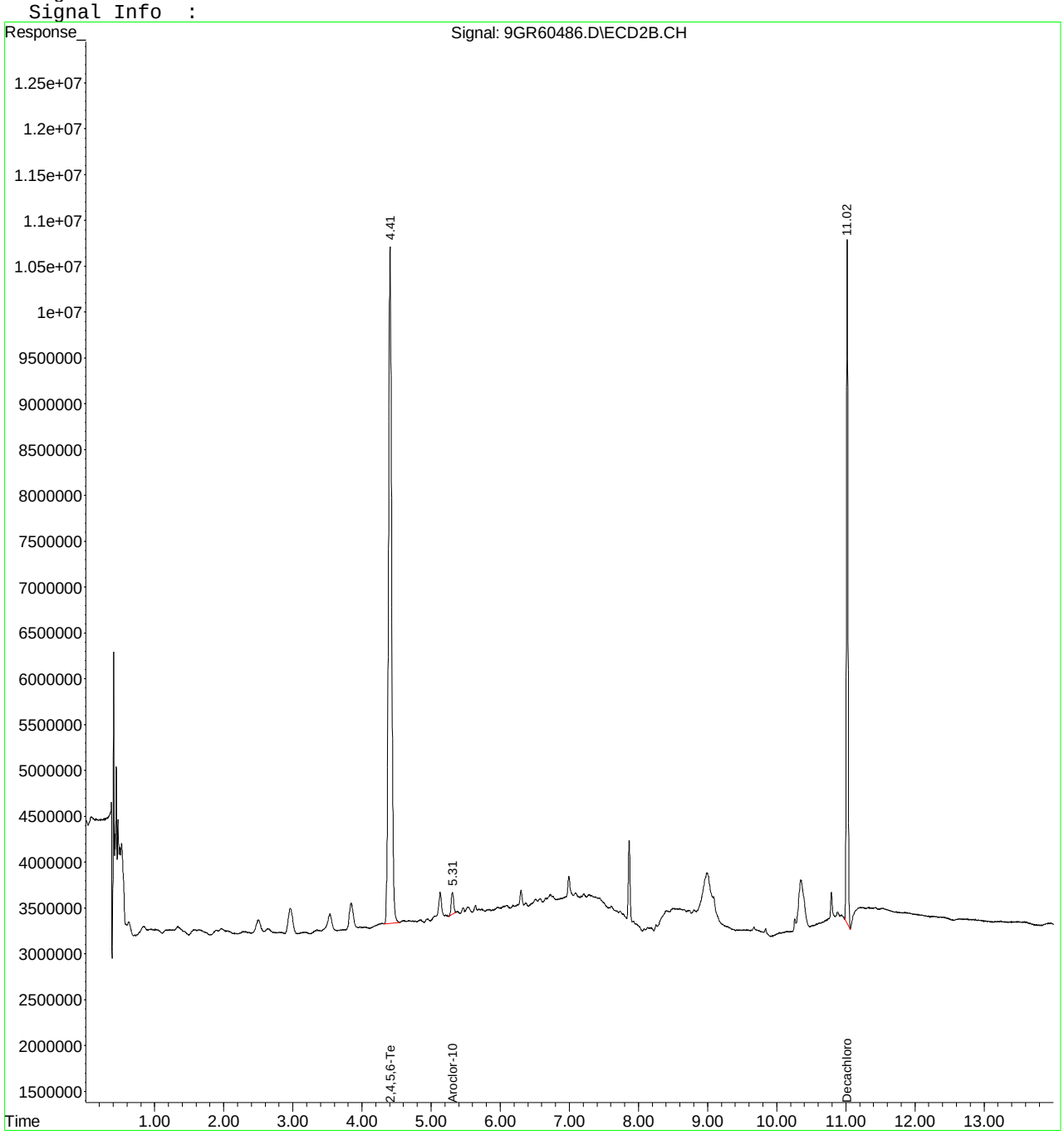
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60486.D 1660R.M Tue Feb 22 08:46:34 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60486.D Vial: 22
Acq On : 21 Feb 2011 20:10 Operator: ECL
Sample : WG356908-01 BLANK Inst : HP9
Misc : 1,1 WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:42 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60493.D Vial: 29
Acq On : 21 Feb 2011 22:16 Operator: ECL
Sample : WG356901-02 BLANK Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:42:45 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.403	201439564	14.8077 UG/L
Spiked Amount 20.000	Range 29 - 133	Recovery =	74.04%
12) S Decachlorobiphenyl	11.019	119997188	17.5229 UG/L
Spiked Amount 20.000	Range 30 - 173	Recovery =	87.61%
Target Compounds			
2) L1 Aroclor-1016-1	0.000	0	N.D. UG/L
3) L1 Aroclor-1016-2	0.000	0	N.D. UG/L
4) L1 Aroclor-1016-3	0.000	0	N.D. UG/L
5) L1 Aroclor-1016-4	0.000	0	N.D. UG/L
6) L1 Aroclor-1016-5	0.000	0	N.D. UG/L
Sum Aroclor-1016-1		0	N.D. UG/L
Average Aroclor-1016-1			0.000 UG/L
7) L2 Aroclor-1260-1	0.000	0	N.D. UG/L
8) L2 Aroclor-1260-2	0.000	0	N.D. UG/L
9) L2 Aroclor-1260-3	0.000	0	N.D. UG/L
10) L2 Aroclor-1260-4	9.669	9852445	13.1912 UG/L
11) L2 Aroclor-1260-5	0.000	0	N.D. UG/L
Sum Aroclor-1260-1		9852445	13.1912 UG/L
Average Aroclor-1260-1			13.191 UG/L

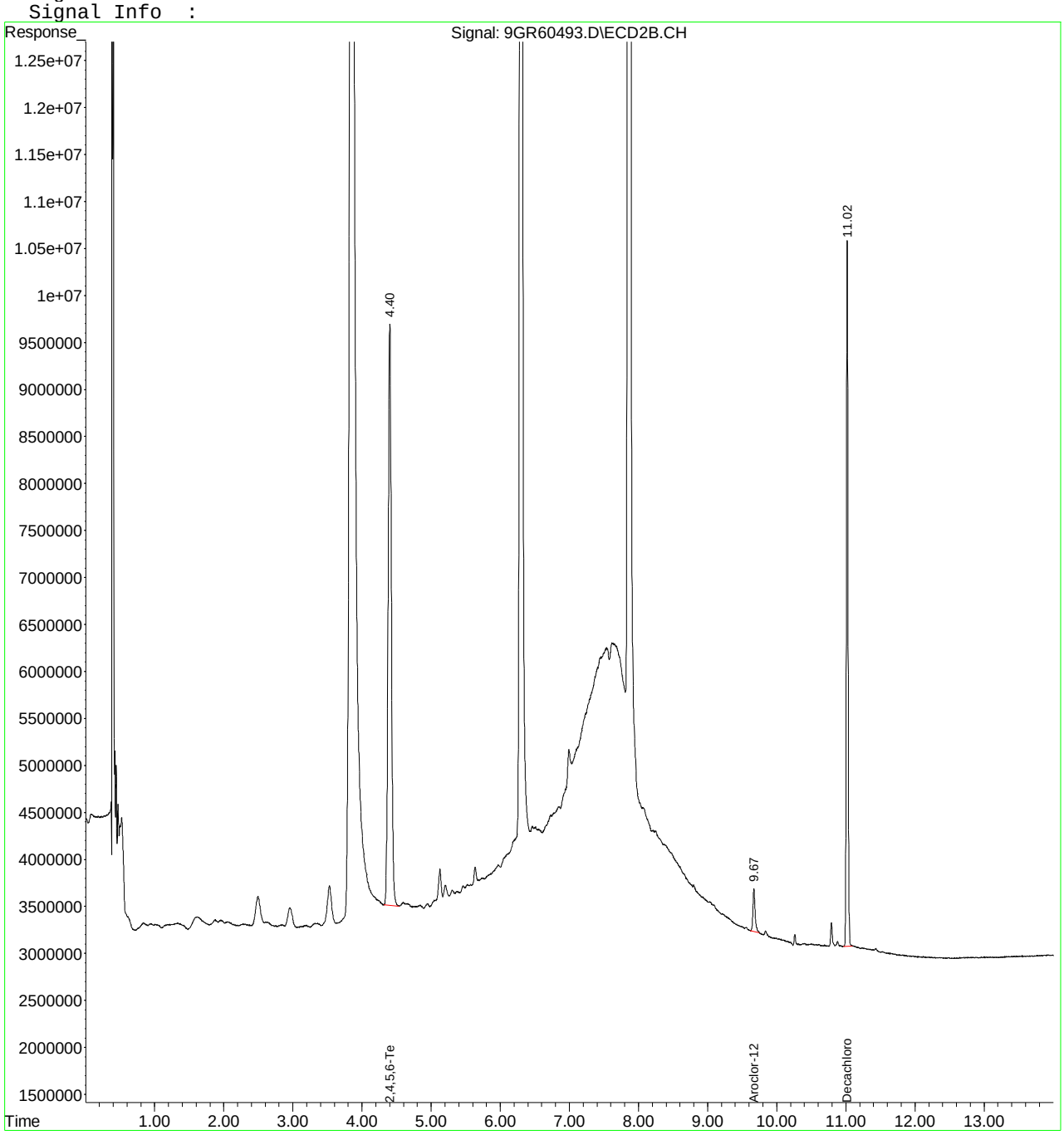
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60493.D 1660R.M Tue Feb 22 08:46:37 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60493.D Vial: 29
Acq On : 21 Feb 2011 22:16 Operator: ECL
Sample : WG356901-02 BLANK Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:42 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60488.D Vial: 24
Acq On : 21 Feb 2011 20:46 Operator: ECL
Sample : WG356908-02 LCS Inst : HP9
Misc : 1,1 WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:42:15 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.403	219720331	16.1515 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	80.76%
12) S Decachlorobiphenyl	11.019	67486175	9.8548 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	49.27%
Target Compounds			
2) L1 Aroclor-1016-1	5.329	60379484	258.4574 UG/L
3) L1 Aroclor-1016-2	5.957	122749904	248.4527 UG/L
4) L1 Aroclor-1016-3	6.573	243849272	268.8491 UG/L
5) L1 Aroclor-1016-4	6.740	121370090	293.5951 UG/L
6) L1 Aroclor-1016-5	7.283	70523258	248.6817 UG/L
Sum Aroclor-1016-1		618.9E6	1318.0360 UG/L
Average Aroclor-1016-1			263.607 UG/L
7) L2 Aroclor-1260-1	8.569	146628310	277.5566 UG/L
8) L2 Aroclor-1260-2	8.765	163967313	276.7818 UG/L
9) L2 Aroclor-1260-3	9.449	104685438	282.8940 UG/L
10) L2 Aroclor-1260-4	9.670	204918343	274.3598 UG/L
11) L2 Aroclor-1260-5	10.502	51263832	296.5038 UG/L
Sum Aroclor-1260-1		671.5E6	1408.0959 UG/L
Average Aroclor-1260-1			281.619 UG/L

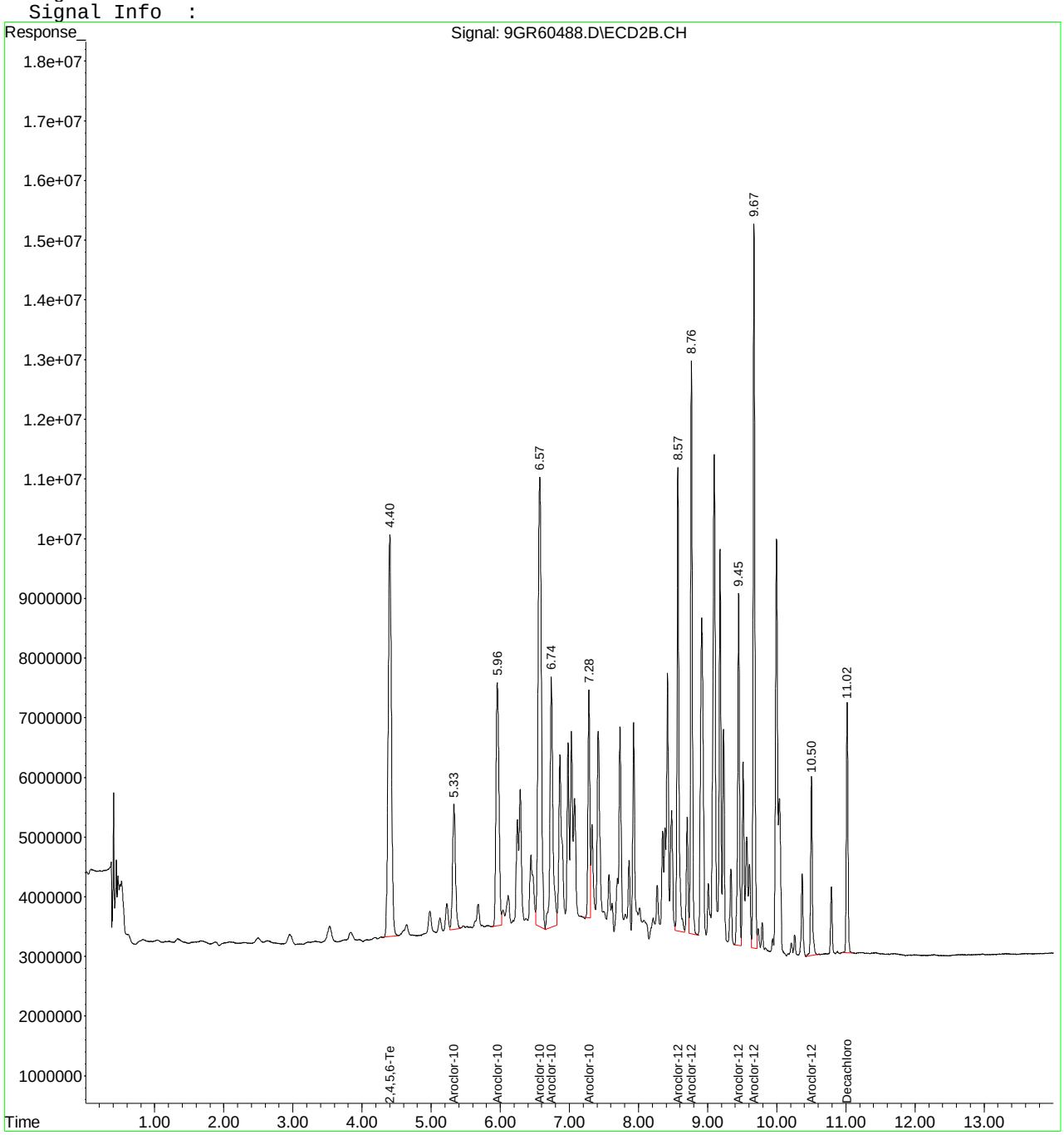
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60488.D 1660R.M Tue Feb 22 08:46:34 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60488.D Vial: 24
Acq On : 21 Feb 2011 20:46 Operator: ECL
Sample : WG356908-02 LCS Inst : HP9
Misc : 1,1 WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:42 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60494.D Vial: 30
Acq On : 21 Feb 2011 22:34 Operator: ECL
Sample : WG356901-03 LCS Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:42:51 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.405	215370122	15.8317 UG/L
Spiked Amount 20.000	Range 29 - 133	Recovery =	79.16%
12) S Decachlorobiphenyl	11.019	117885871	17.2146 UG/L
Spiked Amount 20.000	Range 30 - 173	Recovery =	86.07%
Target Compounds			
2) L1 Aroclor-1016-1	5.331	55278519	236.6224 UG/L
3) L1 Aroclor-1016-2	5.958	111108897	224.8906 UG/L
4) L1 Aroclor-1016-3	6.573	208942379	230.3635 UG/L
5) L1 Aroclor-1016-4	6.741	87281024	211.1334 UG/L
6) L1 Aroclor-1016-5	7.283	68316489	240.9001 UG/L
Sum Aroclor-1016-1		530.9E6	1143.9101 UG/L
Average Aroclor-1016-1			228.782 UG/L
7) L2 Aroclor-1260-1	8.570	131840524	249.5644 UG/L
8) L2 Aroclor-1260-2	8.766	149015139	251.5421 UG/L
9) L2 Aroclor-1260-3	9.449	95930301	259.2347 UG/L
10) L2 Aroclor-1260-4	9.671	185072377	247.7886 UG/L
11) L2 Aroclor-1260-5	10.503	45007472	260.3178 UG/L
Sum Aroclor-1260-1		606.9E6	1268.4475 UG/L
Average Aroclor-1260-1			253.689 UG/L

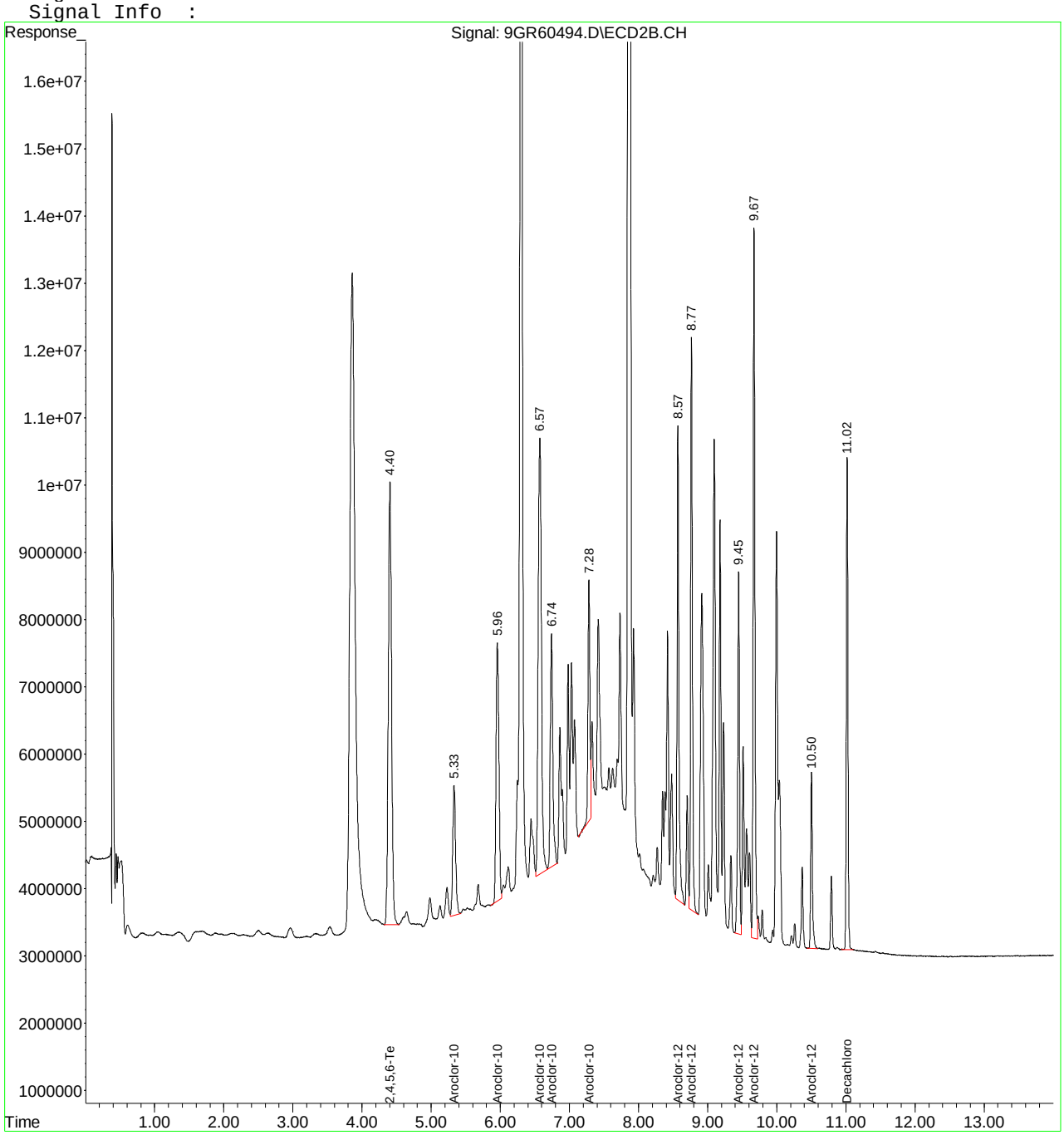
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60494.D 1660R.M Tue Feb 22 08:46:38 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60494.D Vial: 30
Acq On : 21 Feb 2011 22:34 Operator: ECL
Sample : WG356901-03 LCS Inst : HP9
Misc : 7,1 SOIL Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:42 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60489.D Vial: 25
Acq On : 21 Feb 2011 21:04 Operator: ECL
Sample : WG356908-02 LCS DUP Inst : HP9
Misc : 1,1 WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 08:42:20 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Initial Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.407	199716183	14.6810 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	73.41%
12) S Decachlorobiphenyl	11.021	117501838	17.1585 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	85.79%
Target Compounds			
2) L1 Aroclor-1016-1	5.333	53710034	229.9085 UG/L
3) L1 Aroclor-1016-2	5.958	104976434	212.4782 UG/L
4) L1 Aroclor-1016-3	6.574	216421701	238.6096 UG/L
5) L1 Aroclor-1016-4	6.742	96152244	232.5930 UG/L
6) L1 Aroclor-1016-5	7.284	68521264	241.6222 UG/L
Sum Aroclor-1016-1		539.8E6	1155.2114 UG/L
Average Aroclor-1016-1			231.042 UG/L
7) L2 Aroclor-1260-1	8.571	136955234	259.2461 UG/L
8) L2 Aroclor-1260-2	8.767	154611656	260.9892 UG/L
9) L2 Aroclor-1260-3	9.451	98696013	266.7086 UG/L
10) L2 Aroclor-1260-4	9.672	196328326	262.8589 UG/L
11) L2 Aroclor-1260-5	10.504	49243659	284.8193 UG/L
Sum Aroclor-1260-1		635.8E6	1334.6221 UG/L
Average Aroclor-1260-1			266.924 UG/L

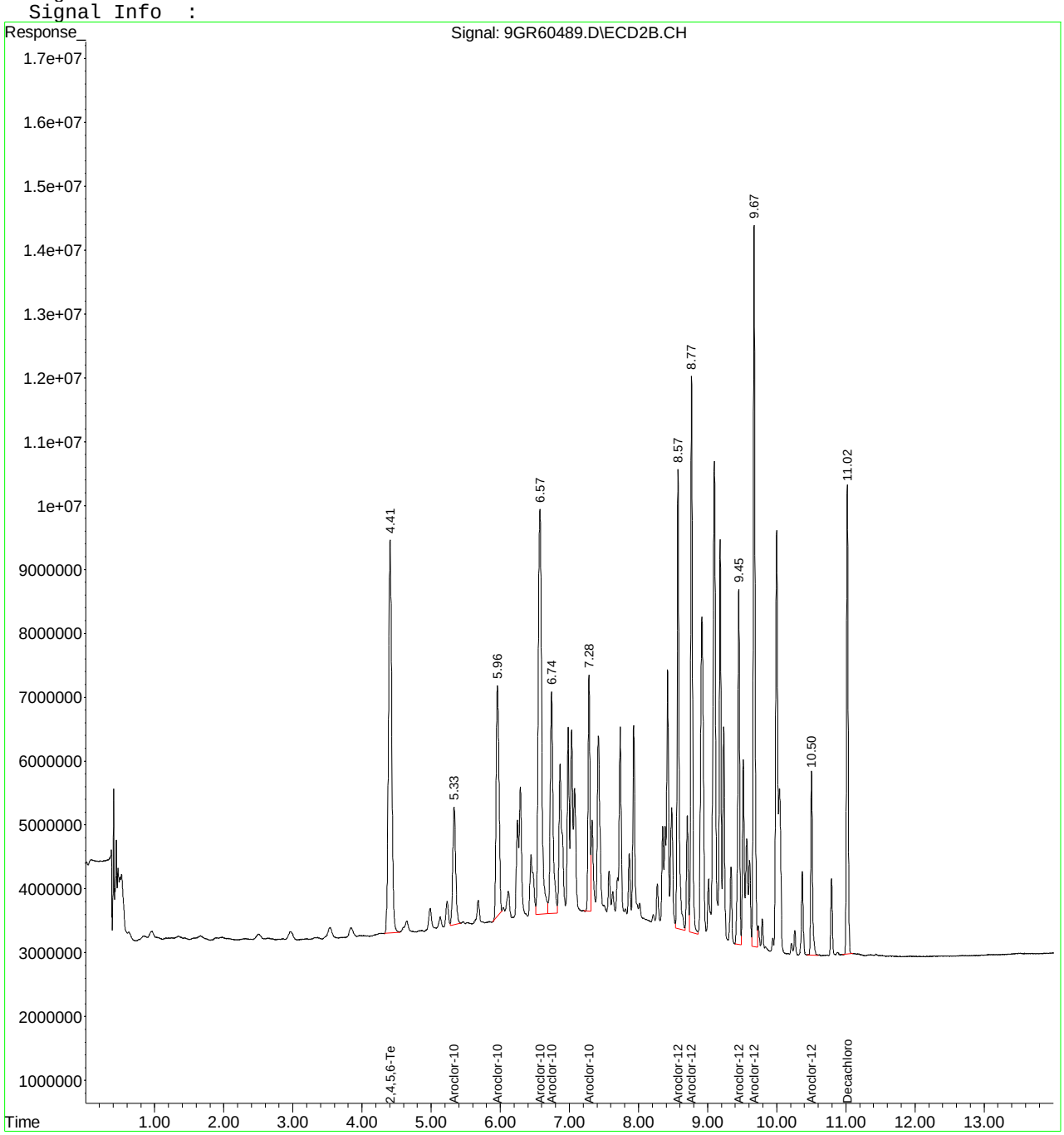
(f)=RT Delta > 1/2 Window (m)=manual int.
9GR60489.D 1660R.M Tue Feb 22 08:46:35 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\022111\9GR60489.D Vial: 25
Acq On : 21 Feb 2011 21:04 Operator: ECL
Sample : WG356908-02 LCS DUP Inst : HP9
Misc : 1,1 WATER Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 22 8:42 2011 Quant Results File: 1660R.RES

Quant Method : C:\MSDCHEM\1\METHODS\1660R.M (Chemstation Integrator)
Title : 8082 CALIBRATION February 18 2011
Last Update : Sat Feb 19 12:02:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : 8082R.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2 Metals Data

2.2.1 Metals I C P Data

2.2.1.1 Summary Data

Login Number: L11020447

Department: Metals

Analyst: Ji Hu
Analyst #2: Pierce Morris

METHOD

Preparation: SW-846 3051/3005

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: WG356823- Due to continuing calibration blank failure for calcium on 18-FEB-2011 at 15:39, client sample 05 and all QA/QC were reanalyzed on a later calibration which was compliant for calcium.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG356945 - Aluminum for client sample 06 was reported from the twenty fold dilution where the twenty fold post digestion spike met acceptance criteria.

WG356956 - All acceptance criteria were met.

Matrix Spikes: WG356945 - Sample 01 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) yielded noncompliant recoveries for fourteen analytes and noncompliant RPDs for three analytes.

SAMPLES

Samples: WG356945 - Client samples 01, 02, 03(MS) and 04(MSD) required dilution analyses in order to obtain results for manganese within the calibration range. Client samples 03(MS) and 04(MSD) required dilution analyses in order to obtain results for calcium within the calibration range. Client samples 01, 02 were also reanalyzed at dilutions for calcium for consistency with samples 03(MS) and 04(MSD). Client samples 06 and 07 required dilution analyses in order to obtain results for iron within the linear range. Client sample 07 required a dilution analysis in order to obtain a result for manganese within the calibration range. A compliant linear range check sample was analyzed for aluminum and iron.

Narrative ID: 21736
Approved By: Sheri Pfalzgraf
Sheri L. Pfalzgraf

LABORATORY REPORT

L11020447

03/01/11 15:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SITE #1-TPS-2-16-11-COMP	L11020447-01	6010B	20	17-FEB-11
SITE #1-TPS-2-16-11-COMP	L11020447-01	6010B	1	17-FEB-11
SITE #1-2-16-11-DUP	L11020447-02	6010B	20	17-FEB-11
SITE #1-2-16-11-DUP	L11020447-02	6010B	1	17-FEB-11
SITE #1-2-16-11-MS	L11020447-03	6010B	20	17-FEB-11
SITE #1-2-16-11-MS	L11020447-03	6010B	1	17-FEB-11
SITE #1-2-16-11-MSD	L11020447-04	6010B	1	17-FEB-11
SITE #1-2-16-11-MSD	L11020447-04	6010B	20	17-FEB-11
SITE #1-2-16-11-FB	L11020447-05	6010B	1	17-FEB-11
SITE #1-2-16-11-FB	L11020447-05	6010B	1	17-FEB-11
SITE #1-2-16-11-CLAY-C	L11020447-06	6010B	1	17-FEB-11
SITE #1-2-16-11-CLAY-C	L11020447-06	6010B	20	17-FEB-11
SITE #1-2-16-11-CLAY-C-2	L11020447-07	6010B	1	17-FEB-11
SITE #1-2-16-11-CLAY-C-2	L11020447-07	6010B	20	17-FEB-11

Microbac Laboratories Inc.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	**L11020447-01**	PrePrep Method:	**NONE**	Instrument:	**ICP-THERMO2**
Client ID:	**SITE #1-TPS-2-16-11-COMP**	Prep Method:	**3051A**	Prep Date:	**02/17/2011 14:57**
Matrix:	**Soil**	Analytical Method:	**6010B**	Cal Date:	**02/18/2011 10:50**
Workgroup Number:	**WG356945**	Analyst:	**JYH**	Run Date:	**02/18/2011 12:17**
Collect Date:	**02/16/2011 11:20**	Dilution:	**20**	File ID:	**T2.021811.121711**
Sample Tag:	**DL01**	Units:	**mg/kg**	Percent Solid:	**84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	**7440-70-2**	**828**		**174**	**86.9**
Manganese, Total	**7439-96-5**	**670**		**8.69**	**4.34**

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-01	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SITE #1-TPS-2-16-11-COMP	Prep Method:	3051A	Prep Date:	02/17/2011 14:57
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/18/2011 10:50
Workgroup Number:	WG356945	Analyst:	JYH	Run Date:	02/18/2011 11:23
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	T2.021811.112321
Sample Tag:	01	Units:	mg/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	5150		17.4	8.69
Antimony, Total	7440-36-0		U	0.869	0.434
Barium, Total	7440-39-3	56.6		0.434	0.217
Beryllium, Total	7440-41-7	0.480		0.434	0.217
Cadmium, Total	7440-43-9		U	0.434	0.217
Chromium, Total	7440-47-3	9.93		0.869	0.434
Cobalt, Total	7440-48-4	9.21		0.869	0.434
Copper, Total	7440-50-8	10.6		0.869	0.434
Iron, Total	7439-89-6	16400		2.61	1.30
Magnesium, Total	7439-95-4	590		21.7	10.9
Nickel, Total	7440-02-0	6.28		1.74	0.869
Potassium, Total	7440-09-7	344		43.4	21.7
Silver, Total	7440-22-4		U	1.74	0.869
Sodium, Total	7440-23-5		U	21.7	10.9
Vanadium, Total	7440-62-2	23.7		0.434	0.217
Zinc, Total	7440-66-6	18.0		0.869	0.434

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-02	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SITE #1-2-16-11-DUP	Prep Method:	3051A	Prep Date:	02/17/2011 14:57
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/18/2011 10:50
Workgroup Number:	WG356945	Analyst:	JYH	Run Date:	02/18/2011 12:20
Collect Date:	02/16/2011 11:20	Dilution:	20	File ID:	T2.021811.122045
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	85.5

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	7440-70-2	922		175	87.3
Manganese, Total	7439-96-5	614		8.73	4.37

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-02**
Client ID: **SITE #1-2-16-11-DUP**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:26**
File ID: **T2.021811.112659**
Percent Solid: **85.5**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	4020		17.5	8.73
Antimony, Total	7440-36-0		U	0.873	0.437
Barium, Total	7440-39-3	48.2		0.437	0.218
Beryllium, Total	7440-41-7	0.398	J	0.437	0.218
Cadmium, Total	7440-43-9		U	0.437	0.218
Chromium, Total	7440-47-3	7.60		0.873	0.437
Cobalt, Total	7440-48-4	5.98		0.873	0.437
Copper, Total	7440-50-8	7.52		0.873	0.437
Iron, Total	7439-89-6	12100		2.62	1.31
Magnesium, Total	7439-95-4	481		21.8	10.9
Nickel, Total	7440-02-0	4.55		1.75	0.873
Potassium, Total	7440-09-7	233		43.7	21.8
Silver, Total	7440-22-4		U	1.75	0.873
Sodium, Total	7440-23-5		U	21.8	10.9
Vanadium, Total	7440-62-2	18.3		0.437	0.218
Zinc, Total	7440-66-6	12.6		0.873	0.437

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-03	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SITE #1-2-16-11-MS	Prep Method:	3051A	Prep Date:	02/17/2011 14:57
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/18/2011 10:50
Workgroup Number:	WG356945	Analyst:	JYH	Run Date:	02/18/2011 12:24
Collect Date:	02/16/2011 11:20	Dilution:	20	File ID:	T2.021811.122420
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	7440-70-2	1030		174	86.9
Manganese, Total	7439-96-5	713		8.69	4.34

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG356945**
Collect Date: **02/16/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **02/17/2011 14:57**
Cal Date: **02/18/2011 10:50**
Run Date: **02/18/2011 11:30**
File ID: **T2.021811.113036**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	5250		17.4	8.69
Antimony, Total	7440-36-0	21.4		0.869	0.434
Barium, Total	7440-39-3	70.5		0.434	0.217
Beryllium, Total	7440-41-7	1.33		0.434	0.217
Cadmium, Total	7440-43-9	0.984		0.434	0.217
Chromium, Total	7440-47-3	18.3		0.869	0.434
Cobalt, Total	7440-48-4	11.8		0.869	0.434
Copper, Total	7440-50-8	19.3		0.869	0.434
Iron, Total	7439-89-6	15100		2.61	1.30
Magnesium, Total	7439-95-4	738		21.7	10.9
Nickel, Total	7440-02-0	15.5		1.74	0.869
Potassium, Total	7440-09-7	1230		43.4	21.7
Silver, Total	7440-22-4	7.19		1.74	0.869
Sodium, Total	7440-23-5	969		21.7	10.9
Vanadium, Total	7440-62-2	41.3		0.434	0.217
Zinc, Total	7440-66-6	35.0		0.869	0.434

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-04	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SITE #1-2-16-11-MSD	Prep Method:	3051A	Prep Date:	02/17/2011 14:57
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/18/2011 10:50
Workgroup Number:	WG356945	Analyst:	JYH	Run Date:	02/18/2011 11:34
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	T2.021811.113409
Sample Tag:	01	Units:	mg/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	5170		17.4	8.69
Antimony, Total	7440-36-0	21.2		0.869	0.434
Barium, Total	7440-39-3	63.7		0.434	0.217
Beryllium, Total	7440-41-7	1.26		0.434	0.217
Cadmium, Total	7440-43-9	0.969		0.434	0.217
Chromium, Total	7440-47-3	16.9		0.869	0.434
Cobalt, Total	7440-48-4	9.61		0.869	0.434
Copper, Total	7440-50-8	16.8		0.869	0.434
Iron, Total	7439-89-6	12200		2.61	1.30
Magnesium, Total	7439-95-4	682		21.7	10.9
Nickel, Total	7440-02-0	13.9		1.74	0.869
Potassium, Total	7440-09-7	1180		43.4	21.7
Silver, Total	7440-22-4	7.22		1.74	0.869
Sodium, Total	7440-23-5	957		21.7	10.9
Vanadium, Total	7440-62-2	38.1		0.434	0.217
Zinc, Total	7440-66-6	32.4		0.869	0.434

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-04	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SITE #1-2-16-11-MSD	Prep Method:	3051A	Prep Date:	02/17/2011 14:57
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/18/2011 10:50
Workgroup Number:	WG356945	Analyst:	JYH	Run Date:	02/18/2011 12:27
Collect Date:	02/16/2011 11:20	Dilution:	20	File ID:	T2.021811.122753
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	7440-70-2	1160		174	86.9
Manganese, Total	7439-96-5	567		8.69	4.34

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG356956**
Collect Date: **02/16/2011 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **02/18/2011 06:36**
Cal Date: **02/18/2011 14:54**
Run Date: **02/18/2011 16:44**
File ID: **P2.021811.164428**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5		U	0.100	0.0500
Arsenic, Total	7440-38-2		U	0.0100	0.00500
Barium, Total	7440-39-3		U	0.0100	0.00500
Beryllium, Total	7440-41-7		U	0.0100	0.00500
Cadmium, Total	7440-43-9		U	0.0100	0.00500
Chromium, Total	7440-47-3		U	0.0200	0.0100
Cobalt, Total	7440-48-4		U	0.0200	0.0100
Copper, Total	7440-50-8		U	0.0200	0.0100
Iron, Total	7439-89-6		U	0.100	0.0500
Lead, Total	7439-92-1		U	0.00500	0.00250
Magnesium, Total	7439-95-4		U	0.500	0.250
Manganese, Total	7439-96-5		U	0.0100	0.00500
Nickel, Total	7440-02-0		U	0.0400	0.0200
Potassium, Total	7440-09-7		U	1.00	0.500
Silver, Total	7440-22-4		U	0.0100	0.00500
Sodium, Total	7440-23-5		U	0.500	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6		U	0.0200	0.0100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-05	PrePrep Method:	NONE	Instrument:	PE-ICP2
Client ID:	SITE #1-2-16-11-FB	Prep Method:	3005A	Prep Date:	02/18/2011 06:36
Matrix:	Water	Analytical Method:	6010B	Cal Date:	02/21/2011 12:22
Workgroup Number:	WG356956	Analyst:	PDM	Run Date:	02/21/2011 18:56
Collect Date:	02/16/2011 12:20	Dilution:	1	File ID:	P2.022111.185639
Sample Tag:	02	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Calcium, Total	7440-70-2		U	0.200	0.100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-06	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SITE #1-2-16-11-CLAY-C	Prep Method:	3051A	Prep Date:	02/17/2011 14:57
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/18/2011 10:50
Workgroup Number:	WG356945	Analyst:	JYH	Run Date:	02/18/2011 11:37
Collect Date:	02/16/2011 12:40	Dilution:	1	File ID:	T2.021811.113741
Sample Tag:	01	Units:	mg/kg	Percent Solid:	81.7

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	0.960		0.869	0.435
Barium, Total	7440-39-3	15.6		0.435	0.217
Beryllium, Total	7440-41-7	0.550		0.435	0.217
Cadmium, Total	7440-43-9		U	0.435	0.217
Calcium, Total	7440-70-2	252		8.69	4.35
Chromium, Total	7440-47-3	32.2		0.869	0.435
Cobalt, Total	7440-48-4	3.43		0.869	0.435
Copper, Total	7440-50-8	26.3		0.869	0.435
Magnesium, Total	7439-95-4	640		21.7	10.9
Manganese, Total	7439-96-5	43.4		0.435	0.217
Nickel, Total	7440-02-0	13.5		1.74	0.869
Potassium, Total	7440-09-7	375		43.5	21.7
Silver, Total	7440-22-4		U	1.74	0.869
Sodium, Total	7440-23-5		U	21.7	10.9
Vanadium, Total	7440-62-2	79.2		0.435	0.217
Zinc, Total	7440-66-6	12.8		0.869	0.435

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-06	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SITE #1-2-16-11-CLAY-C	Prep Method:	3051A	Prep Date:	02/17/2011 14:57
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/18/2011 10:50
Workgroup Number:	WG356945	Analyst:	JYH	Run Date:	02/18/2011 12:38
Collect Date:	02/16/2011 12:40	Dilution:	20	File ID:	T2.021811.123844
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	81.7

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	17400		348	174
Iron, Total	7439-89-6	52900		52.2	26.1

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-07	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SITE #1-2-16-11-CLAY-C-2	Prep Method:	3051A	Prep Date:	02/17/2011 14:57
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/18/2011 10:50
Workgroup Number:	WG356945	Analyst:	JYH	Run Date:	02/18/2011 11:59
Collect Date:	02/16/2011 12:45	Dilution:	1	File ID:	T2.021811.115930
Sample Tag:	01	Units:	mg/kg	Percent Solid:	78.9

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	10600		17.3	8.64
Antimony, Total	7440-36-0	0.679	J	0.864	0.432
Barium, Total	7440-39-3	15.3		0.432	0.216
Beryllium, Total	7440-41-7	0.580		0.432	0.216
Cadmium, Total	7440-43-9		U	0.432	0.216
Calcium, Total	7440-70-2	250		8.64	4.32
Chromium, Total	7440-47-3	26.9		0.864	0.432
Cobalt, Total	7440-48-4	4.59		0.864	0.432
Copper, Total	7440-50-8	22.9		0.864	0.432
Magnesium, Total	7439-95-4	663		21.6	10.8
Nickel, Total	7440-02-0	12.8		1.73	0.864
Potassium, Total	7440-09-7	349		43.2	21.6
Silver, Total	7440-22-4		U	1.73	0.864
Sodium, Total	7440-23-5		U	21.6	10.8
Vanadium, Total	7440-62-2	69.2		0.432	0.216
Zinc, Total	7440-66-6	12.1		0.864	0.432

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-07	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SITE #1-2-16-11-CLAY-C-2	Prep Method:	3051A	Prep Date:	02/17/2011 14:57
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/18/2011 10:50
Workgroup Number:	WG356945	Analyst:	JYH	Run Date:	02/18/2011 12:53
Collect Date:	02/16/2011 12:45	Dilution:	20	File ID:	T2.021811.125312
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	78.9

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	49900		51.8	25.9
Manganese, Total	7439-96-5	81.2		8.64	4.32

2.2.1.2 QC Summary Data

Example 6010 Calculations
Thermo Scientific iCAP 6500

1.0 Initial Calibration (ICAL) Parameters
For a multi-point calibration, the system performs linear regression from data consisting of a blank and four standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

Example 6010 Calculations
Perkin Elmer Optima 4300 DV

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG356852
Analyst: ERP
Spike Analyst: ERP
Run Date: 02/17/2011 14:50
Method: 3051A

SOP: ME406 Revison 12
Spike Solution: STD43761
Spike Witness: BRG
HNO3 Lot #: COA15168
HCL Lot #: COA15185
Digestion Tubes Lot #: COA15251
ICP;WG353481 Filter Lot COA15138

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG356852-02	BLANK	7	1 g	50 mL	177.204 g	177.191 g		
2	WG356852-03	LCS	7	1 g	50 mL	181.778 g	181.769 g	5 mL	
3	L11020365-10	SAMP	7	1.016 g	50 mL	179.321 g	179.163 g		02/25/11
4	L11020365-11	SAMP	7	1.038 g	50 mL	176.647 g	176.482 g		02/25/11
5	L11020365-12	SAMP	7	1.026 g	50 mL	176.762 g	176.651 g		02/25/11
6	L11020365-13	SAMP	7	1.022 g	50 mL	177.653 g	177.588 g		02/25/11
7	L11020365-14	SAMP	7	1.005 g	50 mL	179.289 g	179.204 g		02/25/11
8	L11020365-15	SAMP	7	1.029 g	50 mL	178.239 g	178.168 g		02/25/11
9	L11020365-16	SAMP	7	1.038 g	50 mL	178.597 g	178.546 g		02/25/11
10	L11020365-17	SAMP	7	1.014 g	50 mL	178.539 g	178.444 g		02/25/11
11	L11020365-18	SAMP	7	1.03 g	50 mL	179.397 g	179.357 g		02/25/11
12	L11020365-19	SAMP	7	1.023 g	50 mL	176.628 g	176.595 g		02/25/11
13	L11020365-20	SAMP	7	1.02 g	50 mL	179.552 g	179.204 g		02/25/11
14	L11020365-21	SAMP	7	1.045 g	50 mL	177.914 g	177.868 g		02/25/11
15	L11020432-01	SAMP	7	1.416 g	50 mL	176.979 g	176.919 g		02/25/11
16	L11020432-02	SAMP	7	1.32 g	50 mL	176.513 g	176.481 g		02/25/11
17	L11020432-03	SAMP	7	1.492 g	50 mL	177.749 g	177.633 g		02/25/11
18	L11020432-04	SAMP	7	1.312 g	50 mL	176.683 g	176.579 g		02/25/11
19	WG356852-01	REF	7	1.37 g	50 mL	176.537 g	176.436 g		
20	L11020447-01	RS01	7	1.37 g	50 mL	176.537 g	176.436 g		02/24/11
21	L11020447-02	SAMP	7	1.339 g	50 mL	180.011 g	179.844 g		02/24/11
22	WG356852-04	MS	7	1.37 g	50 mL	181.967 g	181.964 g	5 mL	
23	L11020447-03	MS01	7	1.37 g	50 mL	181.967 g	181.964 g	5 mL	02/24/11
24	WG356852-05	MSD	7	1.37 g	50 mL	181.691 g	181.65 g	5 mL	
25	L11020447-04	SD01	7	1.37 g	50 mL	181.691 g	181.65 g	5 mL	02/24/11
26	L11020447-06	SAMP	7	1.409 g	50 mL	175.606 g	175.549 g		02/24/11
27	L11020447-07	SAMP	7	1.468 g	50 mL	176.838 g	176.75 g		02/24/11

L11020365-11	FILTERED DIGESTATE
L11020365-17	FILTERED DIGESTATE

Analyst: Erin Potter

Reviewer: Vicki Collins

MW_DIG - Modified 09/30/2009
PDF ID: 1922549
Report generated: 02/18/2011 16:12

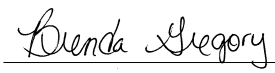
Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG356895
Analyst: REK
Spike Analyst: REK
Method: 3005A
Run Date: 02/18/2011 06:36
Hotblock Start Temp: 94.8 @ 05:25
Hotblock End Temp: 95 @ 09:25

SOP: ME401 Revison 13
Spike Solution: STD39933
Spike Witness: VC
HNO3 Lot #: COA15168
HCL Lot #: COA15185
Digestion Tubes Lot #: COA15251

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG356895-02	BLANK	1	50 mL	50 mL		
2	WG356895-03	LCS	1	50 mL	50 mL	5 mL	
3	WG356895-01	REF	1	50 mL	50 mL		
4	L11020447-05	SAMP	1	50 mL	50 mL		02/24/11
5	L11020453-01	SAMP	1	50 mL	50 mL		02/22/11
6	L11020453-02	SAMP	1	50 mL	50 mL		02/22/11
7	L11020453-03	SAMP	1	50 mL	50 mL		02/22/11
8	WG356895-04	MS	1	50 mL	50 mL	5 mL	
9	WG356895-05	MSD	1	50 mL	50 mL	5 mL	

Analyst:

Reviewer: 

HB_DIG - Modified 09/30/2009
PDF ID: 1922776
Report generated: 02/18/2011 09:41

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 021811T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36385

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD43629
CCV: STD44047 LLCCV:

Workgroups: 356945, 356973, 356993, 356995, 356972, 356976, 356965

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T2.021811.103610	WG357012-01	Calibration Point		1		02/18/11 10:36
2	T2.021811.103951	WG357012-02	Calibration Point		1		02/18/11 10:39
3	T2.021811.104333	WG357012-03	Calibration Point		1		02/18/11 10:43
4	T2.021811.104718	WG357012-04	Calibration Point		1		02/18/11 10:47
5	T2.021811.105049	WG357012-05	Calibration Point		1		02/18/11 10:50
6	T2.021811.105422	WG357012-06	Initial Calibration Verification		1		02/18/11 10:54
7	T2.021811.105753	WG357012-07	Initial Calib Blank		1		02/18/11 10:57
8	T2.021811.110135	WG357012-08	Interference Check		1		02/18/11 11:01
9	T2.021811.110519	WG357012-09	Interference Check		1		02/18/11 11:05
10	T2.021811.110857	WG357012-10	CCV		1		02/18/11 11:08
11	T2.021811.111229	WG357012-11	CCB		1		02/18/11 11:12
12	T2.021811.111609	WG356852-02	Method/Prep Blank	1/50	1		02/18/11 11:16
13	T2.021811.111951	WG356852-03	Laboratory Control S	1/50	1		02/18/11 11:19
14	T2.021811.112321	WG356852-01	Reference Sample		1	L11020447-01	02/18/11 11:23
15	T2.021811.112659	L11020447-02	SITE \#1-2-16-11-DUP	1.339/50	1		02/18/11 11:26
16	T2.021811.113036	WG356852-04	Matrix Spike	1.37/50	1	L11020447-01	02/18/11 11:30
17	T2.021811.113409	WG356852-05	Matrix Spike Duplica	1.37/50	1	L11020447-01	02/18/11 11:34
18	T2.021811.113741	L11020447-06	SITE \#1-2-16-11-CLAY-C	1.409/50	1		02/18/11 11:37
19	T2.021811.114121	WG356945-01	Post Digestion Spike		1	L11020447-06	02/18/11 11:41
20	T2.021811.114504	WG356945-02	Serial Dilution		5	L11020447-06	02/18/11 11:45
21	T2.021811.114838	WG356945-02	Serial Dilution		25	L11020447-06	02/18/11 11:48
22	T2.021811.115217	WG357012-12	CCV		1		02/18/11 11:52
23	T2.021811.115549	WG357012-13	CCB		1		02/18/11 11:55
24	T2.021811.115930	L11020447-07	SITE \#1-2-16-11-CLAY-C-2	1.468/50	1		02/18/11 11:59
25	T2.021811.120312	L11020432-01	SW-SITE 9-5-021111 USCG	1.416/50	1		02/18/11 12:03
26	T2.021811.121201	WG357012-14	Linear Range Check		1		02/18/11 12:12
27	T2.021811.121711	WG356852-01	Reference Sample		20	L11020447-01	02/18/11 12:17
28	T2.021811.122045	L11020447-02	SITE \#1-2-16-11-DUP	1.339/50	20		02/18/11 12:20
29	T2.021811.122420	WG356852-04	Matrix Spike	1.37/50	20	L11020447-01	02/18/11 12:24
30	T2.021811.122753	WG356852-05	Matrix Spike Duplica	1.37/50	20	L11020447-01	02/18/11 12:27
31	T2.021811.123131	WG357012-15	CCV		1		02/18/11 12:31
32	T2.021811.123502	WG357012-16	CCB		1		02/18/11 12:35
33	T2.021811.123844	L11020447-06	SITE \#1-2-16-11-CLAY-C	1.409/50	20		02/18/11 12:38
34	T2.021811.124222	WG356945-01	Post Digestion Spike		20	L11020447-06	02/18/11 12:42

Page: 1 Approved: February 21, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 021811T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36385

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD43629
CCV: STD44047 LLCCV:

Workgroups: 356945, 356973, 356993, 356995, 356972, 356976, 356965

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	T2.021811.124552	WG356945-02	Serial Dilution		100	L11020447-06	02/18/11 12:45
36	T2.021811.124931	WG356945-02	Serial Dilution		500	L11020447-06	02/18/11 12:49
37	T2.021811.125312	L11020447-07	SITE \#1-2-16-11-CLAY-C-2	1.468/50	20		02/18/11 12:53
38	T2.021811.125650	L11020447-07	SITE \#1-2-16-11-CLAY-C-2		100		02/18/11 12:56
39	T2.021811.130058	WG357012-14	Linear Range Check		1		02/18/11 13:00
40	T2.021811.130438	L11020432-02	SW-SITE 9-6-021111 USCG	1.32/50	1		02/18/11 13:04
41	T2.021811.130809	WG357012-17	CCV		1		02/18/11 13:08
42	T2.021811.131141	WG357012-18	CCB		1		02/18/11 13:11
43	T2.021811.131522	L11020432-03	TEST PIT-09-05-USCG SITE	1.492/50	1		02/18/11 13:15
44	T2.021811.131859	L11020432-04	TEST PIT-09-06-USCG SITE	1.312/50	1		02/18/11 13:18
45	T2.021811.132235	L11020365-10	12252-C0006	1.016/50	5		02/18/11 13:22
46	T2.021811.132606	L11020365-11	12258-C0001	1.038/50	5		02/18/11 13:26
47	T2.021811.132936	L11020365-12	12258-C0002	1.026/50	5		02/18/11 13:29
48	T2.021811.133305	L11020365-13	12258-C0003	1.022/50	5		02/18/11 13:33
49	T2.021811.133633	L11020365-14	12258-C0004	1.005/50	5		02/18/11 13:36
50	T2.021811.134007	WG357012-19	CCV		1		02/18/11 13:40
51	T2.021811.134338	WG357012-20	CCB		1		02/18/11 13:43
52	T2.021811.134720	L11020365-15	12258-C0005	1.029/50	5		02/18/11 13:47
53	T2.021811.135051	L11020365-16	12258-C0006	1.038/50	5		02/18/11 13:50
54	T2.021811.135423	L11020365-17	12258-C0007	1.014/50	5		02/18/11 13:54
55	T2.021811.135754	L11020365-18	12258-C0008	1.03/50	5		02/18/11 13:57
56	T2.021811.140125	L11020365-19	12258-C0009	1.023/50	5		02/18/11 14:01
57	T2.021811.140456	L11020365-20	12258-C0010	1.02/50	5		02/18/11 14:04
58	T2.021811.140826	L11020365-21	12258-C0011	1.045/50	5		02/18/11 14:08
59	T2.021811.141200	WG357012-21	CCV		1		02/18/11 14:12
60	T2.021811.141532	WG357012-22	CCB		1		02/18/11 14:15
61	T2.021811.141912	WG356822-02	Method/Prep Blank	1/50	1		02/18/11 14:19
62	T2.021811.142252	WG356822-03	Laboratory Control S	1/50	1		02/18/11 14:22
63	T2.021811.142631	L11020363-01	11240-C0001	1.001/50	5		02/18/11 14:26
64	T2.021811.142959	WG356973-01	Post Digestion Spike		5	L11020363-01	02/18/11 14:29
65	T2.021811.143323	WG356973-02	Serial Dilution		25	L11020363-01	02/18/11 14:33
66	T2.021811.143655	WG356973-02	Serial Dilution		125	L11020363-01	02/18/11 14:36
67	T2.021811.144031	L11020363-02	11240-C0003	1.005/50	5		02/18/11 14:40
68	T2.021811.144402	L11020363-03	11240-C0004	1.007/50	5		02/18/11 14:44

Page: 2 Approved: February 21, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 021811T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36385

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD43629
CCV: STD44047 LLCCV:

Workgroups: 356945, 356973, 356993, 356995, 356972, 356976, 356965

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	T2.021811.144732	L11020363-04	11240-C0005	1.013/50	5		02/18/11 14:47
70	T2.021811.145103	L11020363-05	11240-C0006	1.011/50	5		02/18/11 14:51
71	T2.021811.145436	WG357012-23	CCV		1		02/18/11 14:54
72	T2.021811.145807	WG357012-24	CCB		1		02/18/11 14:58
73	T2.021811.150150	L11020363-06	11240-C0007	1.02/50	5		02/18/11 15:01
74	T2.021811.150519	L11020363-07	11240-C0008	1.018/50	5		02/18/11 15:05
75	T2.021811.150850	L11020363-08	11240-C0009	1.002/50	5		02/18/11 15:08
76	T2.021811.151219	L11020363-09	11240-C0011	1.031/50	5		02/18/11 15:12
77	T2.021811.151547	L11020363-10	11240-C0012	1.011/50	5		02/18/11 15:15
78	T2.021811.151915	L11020363-11	11242-C0001	1.001/50	5		02/18/11 15:19
79	T2.021811.152243	L11020363-12	11242-C0003	1/50	5		02/18/11 15:22
80	T2.021811.152615	WG357012-25	CCV		1		02/18/11 15:26
81	T2.021811.152947	WG357012-26	CCB		1		02/18/11 15:29
82	T2.021811.153330	L11020363-13	11242-C0005	1.029/50	5		02/18/11 15:33
83	T2.021811.153701	L11020363-14	11242-C0007	1/50	5		02/18/11 15:37
84	T2.021811.154032	L11020364-41	12240-C0013	1.028/50	5		02/18/11 15:40
85	T2.021811.154403	L11020364-42	12246-C0001	1.01/50	5		02/18/11 15:44
86	T2.021811.154733	L11020364-43	12246-C0002	1.006/50	5		02/18/11 15:47
87	T2.021811.155103	L11020364-44	12246-C0003	1.007/50	5		02/18/11 15:51
88	T2.021811.155433	L11020364-45	12246-C0004	1.04/50	5		02/18/11 15:54
89	T2.021811.155810	WG356822-01	Reference Sample		5	L11020364-46	02/18/11 15:58
90	T2.021811.160137	WG356822-04	Matrix Spike	1.027/50	5	L11020364-46	02/18/11 16:01
91	T2.021811.160504	WG356822-05	Matrix Spike Duplica	1.027/50	5	L11020364-46	02/18/11 16:05
92	T2.021811.160837	WG357012-27	CCV		1		02/18/11 16:08
93	T2.021811.161209	WG357012-28	CCB		1		02/18/11 16:12
94	T2.021811.161556	WG356963-02	Method/Prep Blank	1/50	1		02/18/11 16:15
95	T2.021811.161940	WG356963-03	Laboratory Control S	1/50	1		02/18/11 16:19
96	T2.021811.162321	L11020454-01	12387-C0001	1.014/50	5		02/18/11 16:23
97	T2.021811.162653	WG356993-01	Post Digestion Spike		5	L11020454-01	02/18/11 16:26
98	T2.021811.163022	WG356993-02	Serial Dilution		25	L11020454-01	02/18/11 16:30
99	T2.021811.163359	WG356993-02	Serial Dilution		125	L11020454-01	02/18/11 16:33
100	T2.021811.163736	L11020454-02	12387-C0002	1.011/50	5		02/18/11 16:37
101	T2.021811.164109	L11020454-03	12387-C0003	1.02/50	5		02/18/11 16:41
102	T2.021811.164439	L11020454-04	12387-C0004	1.036/50	5		02/18/11 16:44

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Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 021811T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36385

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD43629
CCV: STD44047 LLCCV:

Workgroups: 356945, 356973, 356993, 356995, 356972, 356976, 356965

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	T2.021811.164810	L11020454-05	12387-C0005	1.021/50	5		02/18/11 16:48
104	T2.021811.165142	WG357012-29	CCV		1		02/18/11 16:51
105	T2.021811.165513	WG357012-30	CCB		1		02/18/11 16:55
106	T2.021811.165854	L11020454-06	12389-C0001	1.033/50	5		02/18/11 16:58
107	T2.021811.170224	L11020454-07	12389-C0002	1.005/50	5		02/18/11 17:02
108	T2.021811.170556	L11020454-08	12389-C0003	1.008/50	5		02/18/11 17:05
109	T2.021811.170926	L11020454-09	12389-C0004	1.042/50	5		02/18/11 17:09
110	T2.021811.171258	L11020454-10	12389-C0005	1.005/50	5		02/18/11 17:12
111	T2.021811.171630	WG356963-01	Reference Sample		5	L11020454-11	02/18/11 17:16
112	T2.021811.172001	WG356963-04	Matrix Spike	1.024/50	5	L11020454-11	02/18/11 17:20
113	T2.021811.172331	WG356963-05	Matrix Spike Duplica	1.024/50	5	L11020454-11	02/18/11 17:23
114	T2.021811.172702	L11020454-14	12389-C0007	1.008/50	5		02/18/11 17:27
115	T2.021811.173032	L11020454-15	12391-C0001	1.021/50	5		02/18/11 17:30
116	T2.021811.173405	WG357012-31	CCV		1		02/18/11 17:34
117	T2.021811.173736	WG357012-32	CCB		1		02/18/11 17:37
118	T2.021811.174116	L11020454-16	12391-C0002	1.02/50	5		02/18/11 17:41
119	T2.021811.174444	L11020454-17	12532-C0001	1.017/50	5		02/18/11 17:44
120	T2.021811.174812	L11020454-18	12532-C0002	1.036/50	5		02/18/11 17:48
121	T2.021811.175140	L11020454-19	12532-C0003	1.004/50	5		02/18/11 17:51
122	T2.021811.175511	L11020454-20	12532-C0004	1.03/50	5		02/18/11 17:55
123	T2.021811.175842	L11020454-21	12532-C0005	1.022/50	5		02/18/11 17:58
124	T2.021811.180214	L11020454-22	12532-C0006	1.039/50	5		02/18/11 18:02
125	T2.021811.180548	WG357012-33	CCV		1		02/18/11 18:05
126	T2.021811.180919	WG357012-34	CCB		1		02/18/11 18:09
127	T2.021811.181300	WG356952-02	Method/Prep Blank	1/50	1		02/18/11 18:13
128	T2.021811.181640	WG356952-03	Laboratory Control S	1/50	1		02/18/11 18:16
129	T2.021811.182021	L11020448-01	10624-C0007	1.026/50	5		02/18/11 18:20
130	T2.021811.182350	WG356995-01	Post Digestion Spike		5	L11020448-01	02/18/11 18:23
131	T2.021811.182715	WG356995-02	Serial Dilution		5	L11020448-01	02/18/11 18:27
132	T2.021811.183049	WG356995-02	Serial Dilution		5	L11020448-01	02/18/11 18:30
133	T2.021811.183425	L11020448-02	11957-C0007	1.038/50	5		02/18/11 18:34
134	T2.021811.183750	L11020448-03	12603-C0013	1.016/50	5		02/18/11 18:37
135	T2.021811.184122	WG357012-35	CCV		1		02/18/11 18:41
136	T2.021811.184453	WG357012-36	CCB		1		02/18/11 18:44

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Maren Berry

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Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 021811T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36385

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD43629
CCV: STD44047 LLCCV:

Workgroups: 356945, 356973, 356993, 356995, 356972, 356976, 356965

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	T2.021811.184831	L11020448-04	13364-C0010	1.007/50	5		02/18/11 18:48
138	T2.021811.185200	L11020448-05	13364-C0013	1.035/50	5		02/18/11 18:52
139	T2.021811.185529	L11020455-01	12868-C0013	1.013/50	5		02/18/11 18:55
140	T2.021811.185859	L11020455-02	12868-C0014	1.018/50	5		02/18/11 18:58
141	T2.021811.190230	L11020455-03	12868-C0015	1.022/50	5		02/18/11 19:02
142	T2.021811.190558	L11020455-04	12868-C0017	1/50	5		02/18/11 19:05
143	T2.021811.190926	L11020455-05	12868-C0018	1.005/50	5		02/18/11 19:09
144	T2.021811.191255	L11020455-06	13386-C0001	1.006/50	5		02/18/11 19:12
145	T2.021811.191629	L11020455-07	13386-C0002	1.035/50	5		02/18/11 19:16
146	T2.021811.192001	L11020455-08	13386-C0003	1.007/50	5		02/18/11 19:20
147	T2.021811.192339	WG357012-37	CCV		1		02/18/11 19:23
148	T2.021811.192710	WG357012-38	CCB		1		02/18/11 19:27
149	T2.021811.193048	L11020455-09	13386-C0005	1/50	5		02/18/11 19:30
150	T2.021811.193421	L11020455-10	13386-C0006	1.021/50	5		02/18/11 19:34
151	T2.021811.193749	L11020455-11	13779-C0001	1.003/50	5		02/18/11 19:37
152	T2.021811.194120	L11020455-12	13779-C0002	1.045/50	5		02/18/11 19:41
153	T2.021811.194451	L11020455-13	13779-C0003	1.022/50	5		02/18/11 19:44
154	T2.021811.194821	L11020455-14	13779-C0004	1.002/50	5		02/18/11 19:48
155	T2.021811.195151	WG356952-01	Reference Sample		5	L11020455-15	02/18/11 19:51
156	T2.021811.195520	WG356952-04	Matrix Spike	1.013/50	5	L11020455-15	02/18/11 19:55
157	T2.021811.195848	WG356952-05	Matrix Spike Duplica	1.013/50	5	L11020455-15	02/18/11 19:58
158	T2.021811.200219	WG357012-39	CCV		1		02/18/11 20:02
159	T2.021811.200551	WG357012-40	CCB		1		02/18/11 20:05
160	T2.021811.200931	WG356831-02	Method/Prep Blank	1/50	1		02/18/11 20:09
161	T2.021811.201312	WG356831-03	Laboratory Control S	1/50	1		02/18/11 20:13
162	T2.021811.201653	L11020363-34	11573-C0008	1.028/50	5		02/18/11 20:16
163	T2.021811.202024	WG356972-01	Post Digestion Spike		5	L11020363-34	02/18/11 20:20
164	T2.021811.202351	WG356972-02	Serial Dilution		25	L11020363-34	02/18/11 20:23
165	T2.021811.202726	WG356972-02	Serial Dilution		125	L11020363-34	02/18/11 20:27
166	T2.021811.203103	L11020363-35	11573-C0009	1/50	5		02/18/11 20:31
167	T2.021811.203434	L11020363-39	11573-C0011	1.009/50	5		02/18/11 20:34
168	T2.021811.203805	L11020363-40	11573-C0013	1.025/50	5		02/18/11 20:38
169	T2.021811.204134	L11020363-41	11573-C0015	1.043/50	5		02/18/11 20:41
170	T2.021811.204507	WG357012-41	CCV		1		02/18/11 20:45

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 021811T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36385

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD43629
CCV: STD44047 LLCCV:

Workgroups: 356945, 356973, 356993, 356995, 356972, 356976, 356965

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
171	T2.021811.204838	WG357012-42	CCB		1		02/18/11 20:48
172	T2.021811.205218	L11020363-42	11583-C0001	1.008/50	5		02/18/11 20:52
173	T2.021811.205547	L11020363-43	11583-C0002	1.022/50	5		02/18/11 20:55
174	T2.021811.205914	L11020363-44	11583-C0003	1.037/50	5		02/18/11 20:59
175	T2.021811.210246	L11020363-45	11583-C0004	1.017/50	5		02/18/11 21:02
176	T2.021811.210618	L11020363-46	11583-C0005	1.027/50	5		02/18/11 21:06
177	T2.021811.210950	WG356831-01	Reference Sample		5	L11020363-47	02/18/11 21:09
178	T2.021811.211321	WG356831-04	Matrix Spike	1.02/50	5	L11020363-47	02/18/11 21:13
179	T2.021811.211653	WG356831-05	Matrix Spike Duplica	1.02/50	5	L11020363-47	02/18/11 21:16
180	T2.021811.212026	WG357012-43	CCV		1		02/18/11 21:20
181	T2.021811.212356	WG357012-44	CCB		1		02/18/11 21:23
182	T2.021811.212738	L11020365-01	12249-C0002	1.04/50	5		02/18/11 21:27
183	T2.021811.213108	L11020365-02	12249-C0003	1.022/50	5		02/18/11 21:31
184	T2.021811.213439	L11020365-03	12249-C0004	1.027/50	5		02/18/11 21:34
185	T2.021811.213808	L11020365-04	12249-C0005	1.045/50	5		02/18/11 21:38
186	T2.021811.214145	L11020365-05	12252-C0001	1.046/50	5		02/18/11 21:41
187	T2.021811.214516	L11020365-06	12252-C0002	1.036/50	5		02/18/11 21:45
188	T2.021811.214846	L11020365-07	12252-C0003	1/50	5		02/18/11 21:48
189	T2.021811.215215	L11020365-08	12252-C0004	1.009/50	5		02/18/11 21:52
190	T2.021811.215549	L11020365-09	12252-C0005	1.008/50	5		02/18/11 21:55
191	T2.021811.215921	WG357012-45	CCV		1		02/18/11 21:59
192	T2.021811.220253	WG357012-46	CCB		1		02/18/11 22:02
193	T2.021811.220636	WG356851-02	Method/Prep Blank	1/50	1		02/18/11 22:06
194	T2.021811.221019	WG356851-03	Laboratory Control S	1/50	1		02/18/11 22:10
195	T2.021811.221400	L11020365-22	12258-C0012	1.033/50	5		02/18/11 22:14
196	T2.021811.221733	WG356976-01	Post Digestion Spike		5	L11020365-22	02/18/11 22:17
197	T2.021811.222102	WG356976-02	Serial Dilution		25	L11020365-22	02/18/11 22:21
198	T2.021811.222438	WG356976-02	Serial Dilution		125	L11020365-22	02/18/11 22:24
199	T2.021811.222816	L11020365-23	12258-C0013	1.04/50	5		02/18/11 22:28
200	T2.021811.223146	L11020365-24	12258-C0014	1.013/50	5		02/18/11 22:31
201	T2.021811.223515	L11020365-25	12259-C0001	1.009/50	5		02/18/11 22:35
202	T2.021811.223844	L11020365-26	12259-C0002	1.025/50	5		02/18/11 22:38
203	T2.021811.224224	WG357012-47	CCV		1		02/18/11 22:42
204	T2.021811.224555	WG357012-48	CCB		1		02/18/11 22:45

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 021811T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36385

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD43629
CCV: STD44047 LLCCV:

Workgroups: 356945, 356973, 356993, 356995, 356972, 356976, 356965

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
205	T2.021811.224934	L11020365-27	12259-C0003	1.031/50	5		02/18/11 22:49
206	T2.021811.225306	WG356851-01	Reference Sample		5	L11020365-28	02/18/11 22:53
207	T2.021811.225638	WG356851-04	Matrix Spike	1.008/50	5	L11020365-28	02/18/11 22:56
208	T2.021811.230017	WG356851-05	Matrix Spike Duplica	1.008/50	5	L11020365-28	02/18/11 23:00
209	T2.021811.230348	L11020365-31	12259-C0005	1.022/50	5		02/18/11 23:03
210	T2.021811.230720	L11020365-32	12259-C0006	1.008/50	5		02/18/11 23:07
211	T2.021811.231058	L11020365-33	12259-C0007	1.019/50	5		02/18/11 23:10
212	T2.021811.231430	WG357012-49	CCV		1		02/18/11 23:14
213	T2.021811.231800	WG357012-50	CCB		1		02/18/11 23:18
214	T2.021811.232142	L11020365-34	12259-C0008	1.027/50	5		02/18/11 23:21
215	T2.021811.232521	L11020365-35	12259-C0009	1.019/50	5		02/18/11 23:25
216	T2.021811.232851	L11020365-36	12259-C0010	1.006/50	5		02/18/11 23:28
217	T2.021811.233223	L11020365-37	12259-C0011	1.032/50	5		02/18/11 23:32
218	T2.021811.233600	L11020365-38	12262-C0001	1.003/50	5		02/18/11 23:36
219	T2.021811.233929	L11020365-39	12262-C0002	1.033/50	5		02/18/11 23:39
220	T2.021811.234256	L11020365-40	12262-C0003	1.019/50	5		02/18/11 23:42
221	T2.021811.234624	L11020365-41	12262-C0004	1.038/50	5		02/18/11 23:46
222	T2.021811.234951	L11020365-42	12262-C0005	1.016/50	5		02/18/11 23:49
223	T2.021811.235320	L11020365-43	12262-C0006	1.041/50	5		02/18/11 23:53
224	T2.021811.235651	WG357012-51	CCV		1		02/18/11 23:56
225	T2.021911.000022	WG357012-52	CCB		1		02/19/11 00:00
226	T2.021911.000404	WG356912-02	Method/Prep Blank	1/50	1		02/19/11 00:04
227	T2.021911.000748	WG356912-03	Laboratory Control S	1/50	1		02/19/11 00:07
228	T2.021911.001130	L11020325-01	13455-C0010	1.02/50	5		02/19/11 00:11
229	T2.021911.001500	L11020365-44	12262-C0007	1.012/50	5		02/19/11 00:15
230	T2.021911.001832	L11020365-45	12262-C0008	1.048/50	5		02/19/11 00:18
231	T2.021911.002205	L11020365-46	12262-C0009	1.028/50	5		02/19/11 00:22
232	T2.021911.002536	L11020365-47	12267-C0001	1.01/50	5		02/19/11 00:25
233	T2.021911.002908	L11020365-48	12267-C0002	1.002/50	5		02/19/11 00:29
234	T2.021911.003240	L11020366-01	12267-C0003	1.003/50	5		02/19/11 00:32
235	T2.021911.003611	WG356965-01	Post Digestion Spike		5	L11020366-01	02/19/11 00:36
236	T2.021911.003939	WG357012-53	CCV		1		02/19/11 00:39
237	T2.021911.004309	WG357012-54	CCB		1		02/19/11 00:43
238	T2.021911.004651	WG356965-02	Serial Dilution		25	L11020366-01	02/19/11 00:46

 Approved: February 21, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 021811T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36385

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD43629
CCV: STD44047 LLCCV:

Workgroups: 356945, 356973, 356993, 356995, 356972, 356976, 356965

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
239	T2.021911.005025	WG356965-02	Serial Dilution		125	L11020366-01	02/19/11 00:50
240	T2.021911.005407	L11020366-02	12267-C0004	1.001/50	5		02/19/11 00:54
241	T2.021911.005739	L11020366-03	12269-C0001	1.014/50	5		02/19/11 00:57
242	T2.021911.010112	L11020366-04	12269-C0002	1.023/50	5		02/19/11 01:01
243	T2.021911.010445	L11020366-05	12269-C0003	1.022/50	5		02/19/11 01:04
244	T2.021911.010816	L11020366-06	12269-C0004	1.03/50	5		02/19/11 01:08
245	T2.021911.011148	L11020366-07	12269-C0005	1.019/50	5		02/19/11 01:11
246	T2.021911.011521	L11020366-08	12269-C0006	1.006/50	5		02/19/11 01:15
247	T2.021911.011853	L11020366-09	12269-C0007	1.018/50	5		02/19/11 01:18
248	T2.021911.012224	WG357012-55	CCV		1		02/19/11 01:22
249	T2.021911.012555	WG357012-56	CCB		1		02/19/11 01:25
250	T2.021911.012937	WG356912-01	Reference Sample		5	L11020366-10	02/19/11 01:29
251	T2.021911.013308	WG356912-04	Matrix Spike	1.044/50	5	L11020366-10	02/19/11 01:33
252	T2.021911.013639	WG356912-05	Matrix Spike Duplica	1.044/50	5	L11020366-10	02/19/11 01:36
253	T2.021911.014010	L11020366-13	12269-C0009	1.043/50	5		02/19/11 01:40
254	T2.021911.014344	L11020366-14	12269-C0010	1.005/50	5		02/19/11 01:43
255	T2.021911.014717	L11020366-15	12269-C0011	1/50	5		02/19/11 01:47
256	T2.021911.015050	L11020366-16	12269-C0012	1.006/50	5		02/19/11 01:50
257	T2.021911.015422	WG357012-57	CCV		1		02/19/11 01:54
258	T2.021911.015753	WG357012-58	CCB		1		02/19/11 01:57

 Approved: February 21, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 021811H5.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 10
Maintenance Log ID: 36482

Calibration Std: STD43840 ICV Std: STD43946 Post Spike: STD39932
ICSA: STD43688 ICSAB: STD43687 Int. Std: STD43931
CCV: STD43884 LLCCV:

Workgroups: 356956,356823

Comments: Sequences 64 through 135 were not reported due to CCV failures for multiple analytes.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.021811.142800	WG357093-01	Calibration Point		1		02/18/11 14:28
2	P2.021811.143435	WG357093-02	Calibration Point		1		02/18/11 14:34
3	P2.021811.144112	WG357093-03	Calibration Point		1		02/18/11 14:41
4	P2.021811.144751	WG357093-04	Calibration Point		1		02/18/11 14:47
5	P2.021811.145431	WG357093-05	Calibration Point		1		02/18/11 14:54
6	P2.021811.150115	WG357093-06	Initial Calibration Verification		1		02/18/11 15:01
7	P2.021811.150801	WG357093-07	Initial Calib Blank		1		02/18/11 15:08
8	P2.021811.151438	WG357093-08	Low Level Continuing Calibra		1		02/18/11 15:14
9	P2.021811.152119	WG357093-09	Interference Check		1		02/18/11 15:21
10	P2.021811.152659	WG357093-10	Interference Check		1		02/18/11 15:26
11	P2.021811.153239	WG357093-11	CCV		1		02/18/11 15:32
12	P2.021811.153917	WG357093-12	CCB		1		02/18/11 15:39
13	P2.021811.154605	WG357093-13	Linear Range Check		1		02/18/11 15:46
14	P2.021811.155104	WG357093-13	Linear Range Check		1		02/18/11 15:51
15	P2.021811.155746	WG357093-13	Linear Range Check		1		02/18/11 15:57
16	P2.021811.160424	BLANK	BLANK		1		02/18/11 16:04
17	P2.021811.161107	BLANK	BLANK		1		02/18/11 16:11
18	P2.021811.161744	WG357093-14	CCV		1		02/18/11 16:17
19	P2.021811.162424	WG357093-15	CCB		1		02/18/11 16:24
20	P2.021811.163101	WG356895-02	Method/Prep Blank	50/50	1		02/18/11 16:31
21	P2.021811.163738	WG356895-03	Laboratory Control S	50/50	1		02/18/11 16:37
22	P2.021811.164428	WG356895-01	Reference Sample		1	L11020447-05	02/18/11 16:44
23	P2.021811.165107	WG356895-04	Matrix Spike	50/50	1	L11020447-05	02/18/11 16:51
24	P2.021811.165751	WG356895-05	Matrix Spike Duplica	50/50	1	L11020447-05	02/18/11 16:57
25	P2.021811.170431	L11020453-01	12532-W0001	50/50	1		02/18/11 17:04
26	P2.021811.171112	WG356956-01	Post Digestion Spike		1	L11020453-01	02/18/11 17:11
27	P2.021811.171751	WG356956-02	Serial Dilution		5	L11020453-01	02/18/11 17:17
28	P2.021811.172429	L11020453-02	12868-W0001	50/50	1		02/18/11 17:24
29	P2.021811.173109	L11020453-03	13386-W0001	50/50	1		02/18/11 17:31
30	P2.021811.173746	WG357093-16	CCV		1		02/18/11 17:37
31	P2.021811.174427	WG357093-17	CCB		1		02/18/11 17:44
32	P2.021811.175104	WG356762-02	Method/Prep Blank	50/50	1		02/18/11 17:51
33	P2.021811.175743	WG356762-03	Laboratory Control S	50/50	1		02/18/11 17:57
34	P2.021811.180422	L11020359-01	FTGWEF277	50/50	1		02/18/11 18:04

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Instrument Run Log

Instrument: PE-ICP2 Dataset: 021811H5.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 10
Maintenance Log ID: 36482

Calibration Std: STD43840 ICV Std: STD43946 Post Spike: STD39932
ICSA: STD43688 ICSAB: STD43687 Int. Std: STD43931
CCV: STD43884 LLCCV:

Workgroups: 356956,356823

Comments: Sequences 64 through 135 were not reported due to CCV failures for multiple analytes.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	P2.021811.181102	L11020360-01	POND OUTFALL	50/50	1		02/18/11 18:11
36	P2.021811.181741	WG356823-01	Post Digestion Spike		1	L11020360-01	02/18/11 18:17
37	P2.021811.182421	WG356823-02	Serial Dilution		5	L11020360-01	02/18/11 18:24
38	P2.021811.183106	L11020361-01	ID A N\&S	50/50	1		02/18/11 18:31
39	P2.021811.183749	WG356762-01	Reference Sample		1	L11020397-01	02/18/11 18:37
40	P2.021811.184432	WG356762-04	Matrix Spike	50/50	1	L11020397-01	02/18/11 18:44
41	P2.021811.185117	WG356762-05	Matrix Spike Duplica	50/50	1	L11020397-01	02/18/11 18:51
42	P2.021811.185800	WG357093-18	CCV		1		02/18/11 18:58
43	P2.021811.190439	WG357093-19	CCB		1		02/18/11 19:04
44	P2.021811.191117	L11020412-01	1378-W0001	50/50	1		02/18/11 19:11
45	P2.021811.191756	L11020412-02	1378-W0002	50/50	1		02/18/11 19:17
46	P2.021811.192434	L11020412-03	1630-W0001	50/50	1		02/18/11 19:24
47	P2.021811.193114	L11020412-04	21-W0001	50/50	1		02/18/11 19:31
48	P2.021811.193753	L11020412-05	21-W0002	50/50	1		02/18/11 19:37
49	P2.021811.194432	L11020412-06	21-W0003	50/50	1		02/18/11 19:44
50	P2.021811.195112	L11020412-07	21-W0004	50/50	1		02/18/11 19:51
51	P2.021811.195750	L11020412-08	2133-W0002	50/50	1		02/18/11 19:57
52	P2.021811.200429	L11020412-09	2137-W0001	50/50	1		02/18/11 20:04
53	P2.021811.201111	L11020412-10	2137-W0002	50/50	1		02/18/11 20:11
54	P2.021811.201758	WG357093-20	CCV		1		02/18/11 20:17
55	P2.021811.202437	WG357093-21	CCB		1		02/18/11 20:24
56	P2.021811.203115	L11020412-11	228-W0001	50/50	1		02/18/11 20:31
57	P2.021811.203754	L11020412-12	228-W0002	50/50	1		02/18/11 20:37
58	P2.021811.204433	L11020412-13	246-W0001	50/50	1		02/18/11 20:44
59	P2.021811.205114	L11020412-14	392-W0001	50/50	1		02/18/11 20:51
60	P2.021811.205753	L11020412-15	392-W0002	50/50	1		02/18/11 20:57
61	P2.021811.210437	L11020412-16	392-W0003	50/50	1		02/18/11 21:04
62	P2.021811.211120	WG357093-22	CCV		1		02/18/11 21:11
63	P2.021811.211802	WG357093-23	CCB		1		02/18/11 21:18
64	P2.021811.212440	WG356954-02	Method/Prep Blank		1		02/18/11 21:24
65	P2.021811.213122	WG356954-03	Laboratory Control S		1		02/18/11 21:31
66	P2.021811.213824	WG356907-01	TCLP Fluid Blank 1		1		02/18/11 21:38
67	P2.021811.214508	WG356907-02	TCLP Fluid Blank 2		1		02/18/11 21:45
68	P2.021811.215154	L11020357-01	B156-S-021011		1		02/18/11 21:51

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Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 021811H5.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 10
Maintenance Log ID: 36482

Calibration Std: STD43840 ICV Std: STD43946 Post Spike: STD39932
ICSA: STD43688 ICSAB: STD43687 Int. Std: STD43931
CCV: STD43884 LLCCV:

356956,356823
Workgroups:

Comments: Sequences 64 through 135 were not reported due to CCV failures for multiple analytes.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	P2.021811.215839	WG356971-01	Post Digestion Spike		1	L11020387-01	02/18/11 21:58
70	P2.021811.220526	WG356971-02	Serial Dilution		5	L11020387-01	02/18/11 22:05
71	P2.021811.221212	L11020358-01	SOIL-021011		1		02/18/11 22:12
72	P2.021811.221859	L11020382-02	21511-BB		1		02/18/11 22:18
73	P2.021811.222540	L11020387-01	13837-SSP0109		1		02/18/11 22:25
74	P2.021811.223231	WG357093-24	CCV		1		02/18/11 22:32
75	P2.021811.223914	WG357093-25	CCB		1		02/18/11 22:39
76	P2.021811.224552	WG356954-01	Reference Sample		1	L11020438-01	02/18/11 22:45
77	P2.021811.225235	WG356954-04	Matrix Spike		1	L11020438-01	02/18/11 22:52
78	P2.021811.225918	WG356954-05	Matrix Spike Duplica		1	L11020438-01	02/18/11 22:59
79	P2.021811.230602	WG357093-26	CCV		1		02/18/11 23:06
80	P2.021811.231247	WG357093-27	CCB		1		02/18/11 23:12
81	P2.021811.231927	L11020402-02	SW1A.258.14		1		02/18/11 23:19
82	P2.021811.232614	WG356765-01	Reference Sample		1	L11020402-07	02/18/11 23:26
83	P2.021811.233255	WG356765-04	Matrix Spike		1	L11020402-07	02/18/11 23:32
84	P2.021811.233940	WG356765-05	Matrix Spike Duplica		1	L11020402-07	02/18/11 23:39
85	P2.021811.234621	L11020402-14	SW3A.258.14		1		02/18/11 23:46
86	P2.021811.235303	L11020402-17	SW3B.258.14		1		02/18/11 23:53
87	P2.021811.235944	L11020402-20	SW4A.258.14		1		02/18/11 23:59
88	P2.021911.000623	WG356832-01	Post Digestion Spike		1	L11020402-17	02/19/11 00:06
89	P2.021911.001307	WG357093-28	CCV		1		02/19/11 00:13
90	P2.021911.001951	WG357093-29	CCB		1		02/19/11 00:19
91	P2.021911.002630	WG356832-02	Serial Dilution		5	L11020402-17	02/19/11 00:26
92	P2.021911.003310	L11020402-23	SW5A.258.14		1		02/19/11 00:33
93	P2.021911.003953	L11020412-17	392-W0004		1		02/19/11 00:39
94	P2.021911.004632	L11020412-18	392-W0005		1		02/19/11 00:46
95	P2.021911.005312	L11020412-19	392-W0006		1		02/19/11 00:53
96	P2.021911.005955	L11020412-20	392-W0007		1		02/19/11 00:59
97	P2.021911.010634	L11020412-21	392-W0008		1		02/19/11 01:06
98	P2.021911.011314	L11020412-22	413-W0001		1		02/19/11 01:13
99	P2.021911.011956	L11020431-01	129-W0001		1		02/19/11 01:19
100	P2.021911.012639	L11020434-01	01SYS-EFF-021411		1		02/19/11 01:26
101	P2.021911.013337	WG357093-30	CCV		1		02/19/11 01:33
102	P2.021911.014019	WG357093-31	CCB		1		02/19/11 01:40

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Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 021811H5.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 10
Maintenance Log ID: 36482

Calibration Std: STD43840 ICV Std: STD43946 Post Spike: STD39932
ICSA: STD43688 ICSAB: STD43687 Int. Std: STD43931
CCV: STD43884 LLCCV:

Workgroups: 356956,356823

Comments: Sequences 64 through 135 were not reported due to CCV failures for multiple analytes.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	P2.021911.014701	WG357093-32	Low Level Continuing Calibra		1		02/19/11 01:47
104	P2.021911.015338	WG356433-02	Method/Prep Blank		1		02/19/11 01:53
105	P2.021911.020023	WG356433-03	Laboratory Control S		1		02/19/11 02:00
106	P2.021911.020705	L11020266-01	MW89-7		1		02/19/11 02:07
107	P2.021911.021345	L11020266-02	MW89-7-DUP		1		02/19/11 02:13
108	P2.021911.022031	L11020266-03	DIW-16		1		02/19/11 02:20
109	P2.021911.022621	L11020266-04	MW88-2		1		02/19/11 02:26
110	P2.021911.023204	L11020266-05	MW89-6		1		02/19/11 02:32
111	P2.021911.023747	WG356489-01	Post Digestion Spike		1	L11020266-06	02/19/11 02:37
112	P2.021911.024335	WG356489-02	Serial Dilution		5	L11020266-06	02/19/11 02:43
113	P2.021911.025014	L11020266-06	MW89-6-DUP		1		02/19/11 02:50
114	P2.021911.025558	WG357093-33	CCV		1		02/19/11 02:55
115	P2.021911.030244	WG357093-34	CCB		1		02/19/11 03:02
116	P2.021911.030923	WG357093-35	Low Level Continuing Calibra		1		02/19/11 03:09
117	P2.021911.031601	L11020266-07	MW023		1		02/19/11 03:16
118	P2.021911.032151	L11020266-08	MW88-3		1		02/19/11 03:21
119	P2.021911.032831	L11020266-09	MW89-2		1		02/19/11 03:28
120	P2.021911.033512	L11020266-10	MW89-2-DUP		1		02/19/11 03:35
121	P2.021911.034151	L11020266-11	DIW-15		1		02/19/11 03:41
122	P2.021911.034736	L11020266-12	MW89-5		1	WG356433-01	02/19/11 03:47
123	P2.021911.035415	WG356433-04	Matrix Spike		1	L11020266-12	02/19/11 03:54
124	P2.021911.040056	WG356433-05	Matrix Spike Duplica		1	L11020266-12	02/19/11 04:00
125	P2.021911.040738	L11020266-13	MW29-36		1		02/19/11 04:07
126	P2.021911.041419	L11020266-14	MW86-2		1		02/19/11 04:14
127	P2.021911.042100	WG357093-36	CCV		1		02/19/11 04:21
128	P2.021911.042746	WG357093-37	CCB		1		02/19/11 04:27
129	P2.021911.043426	WG357093-38	Low Level Continuing Calibra		1		02/19/11 04:34
130	P2.021911.044104	L11020266-15	MW86-1		1		02/19/11 04:41
131	P2.021911.044750	L11020266-16	DIW-21		1		02/19/11 04:47
132	P2.021911.045334	FBLK	FBLK		1		02/19/11 04:53
133	P2.021911.050022	WG357093-39	CCV		1		02/19/11 05:00
134	P2.021911.050701	WG357093-40	CCB		1		02/19/11 05:07
135	P2.021911.051337	WG357093-41	Low Level Continuing Calibra		1		02/19/11 05:13

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Esther L. Babgard

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 022111H2.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 10
Maintenance Log ID: 36505

Calibration Std: STD43840 ICV Std: STD43946 Post Spike: STD39932
ICSA: STD44050 ICSAB: STD44051 Int. Std: STD44052
CCV: STD43884 LLCCV:

Workgroups: 356971,356486,356956,356823,356832

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.022111.115601	WG357128-01	Calibration Point		1		02/21/11 11:56
2	P2.022111.120236	WG357128-02	Calibration Point		1		02/21/11 12:02
3	P2.022111.120913	WG357128-03	Calibration Point		1		02/21/11 12:09
4	P2.022111.121553	WG357128-04	Calibration Point		1		02/21/11 12:15
5	P2.022111.122233	WG357128-05	Calibration Point		1		02/21/11 12:22
6	P2.022111.122917	WG357128-06	Initial Calibration Verification		1		02/21/11 12:29
7	P2.022111.123559	WG357128-07	Initial Calib Blank		1		02/21/11 12:35
8	P2.022111.124237	WG357128-08	Low Level Continuing Calibra		1		02/21/11 12:42
9	P2.022111.124918	WG357128-09	Interference Check		1		02/21/11 12:49
10	P2.022111.125504	WG357128-10	Interference Check		1		02/21/11 12:55
11	P2.022111.130044	WG357128-11	CCV		1		02/21/11 13:00
12	P2.022111.130723	WG357128-12	CCB		1		02/21/11 13:07
13	P2.022111.131402	WG356954-02	Method/Prep Blank	5/50	1		02/21/11 13:14
14	P2.022111.132041	WG356954-03	Laboratory Control S	5/50	1		02/21/11 13:20
15	P2.022111.132725	WG356907-01	TCLP Fluid Blank 1		1		02/21/11 13:27
16	P2.022111.133406	WG356907-02	TCLP Fluid Blank 2		1		02/21/11 13:34
17	P2.022111.134050	L11020387-01	13837-SSP0109	5/50	1		02/21/11 13:40
18	P2.022111.134740	WG356971-01	Post Digestion Spike		1	L11020387-01	02/21/11 13:47
19	P2.022111.135423	WG356971-02	Serial Dilution		5	L11020387-01	02/21/11 13:54
20	P2.022111.140107	WG356954-01	Reference Sample		1	L11020438-01	02/21/11 14:01
21	P2.022111.140754	WG356954-04	Matrix Spike	5/50	1	L11020438-01	02/21/11 14:07
22	P2.022111.141435	WG356954-05	Matrix Spike Duplica	5/50	1	L11020438-01	02/21/11 14:14
23	P2.022111.142118	WG357128-13	CCV		1		02/21/11 14:21
24	P2.022111.142758	WG357128-14	CCB		1		02/21/11 14:27
25	P2.022111.143641	L11020357-01	B156-S-021011	5/50	1		02/21/11 14:36
26	P2.022111.144325	L11020358-01	SOIL-021011	5/50	1		02/21/11 14:43
27	P2.022111.145006	L11020382-02	21511-BB	5/50	1		02/21/11 14:50
28	P2.022111.145646	WG357128-15	CCV		1		02/21/11 14:56
29	P2.022111.150323	WG357128-16	CCB		1		02/21/11 15:03
30	P2.022111.151002	WG357128-17	Low Level Continuing Calibra		1		02/21/11 15:10
31	P2.022111.151802	WG356433-02	Method/Prep Blank	50/50	1		02/21/11 15:18
32	P2.022111.152442	WG356433-03	Laboratory Control S	50/50	1		02/21/11 15:24
33	P2.022111.153120	L11020266-01	MW89-7	50/50	1		02/21/11 15:31
34	P2.022111.153759	L11020266-02	MW89-7-DUP	50/50	1		02/21/11 15:37

Page: 1 Approved: February 22, 2011

Esther L. Babgard

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 022111H2.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 10
Maintenance Log ID: 36505

Calibration Std: STD43840 ICV Std: STD43946 Post Spike: STD39932
ICSA: STD44050 ICSAB: STD44051 Int. Std: STD44052
CCV: STD43884 LLCCV:

Workgroups: 356971,356486,356956,356823,356832

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	P2.022111.154438	L11020266-03	DIW-16	50/50	1		02/21/11 15:44
36	P2.022111.155020	L11020266-04	MW88-2	50/50	1		02/21/11 15:50
37	P2.022111.155601	L11020266-05	MW89-6	50/50	1		02/21/11 15:56
38	P2.022111.160144	L11020266-06	MW89-6-DUP	50/50	1		02/21/11 16:01
39	P2.022111.160726	WG356489-01	Post Digestion Spike		1	L11020266-06	02/21/11 16:07
40	P2.022111.161310	WG356489-02	Serial Dilution		5	L11020266-06	02/21/11 16:13
41	P2.022111.161948	WG357128-18	CCV		1		02/21/11 16:19
42	P2.022111.162625	WG357128-19	CCB		1		02/21/11 16:26
43	P2.022111.163301	WG357128-20	Low Level Continuing Calibra		1		02/21/11 16:33
44	P2.022111.163941	L11020266-07	MW023	50/50	1		02/21/11 16:39
45	P2.022111.164526	L11020266-08	MW88-3	50/50	1		02/21/11 16:45
46	P2.022111.165203	L11020266-09	MW89-2	50/50	1		02/21/11 16:52
47	P2.022111.165841	L11020266-10	MW89-2-DUP	50/50	1		02/21/11 16:58
48	P2.022111.170522	L11020266-11	DIW-15	50/50	1		02/21/11 17:05
49	P2.022111.171106	L11020266-12	MW89-5	50/50	1	WG356433-01	02/21/11 17:11
50	P2.022111.171743	WG356433-04	Matrix Spike	50/50	1	L11020266-12	02/21/11 17:17
51	P2.022111.172422	WG356433-05	Matrix Spike Duplica	50/50	1	L11020266-12	02/21/11 17:24
52	P2.022111.173103	L11020266-13	MW29-36	50/50	1		02/21/11 17:31
53	P2.022111.173746	L11020266-14	MW86-2	50/50	1		02/21/11 17:37
54	P2.022111.174423	WG357128-21	CCV		1		02/21/11 17:44
55	P2.022111.175104	WG357128-22	CCB		1		02/21/11 17:51
56	P2.022111.175740	WG357128-23	Low Level Continuing Calibra		1		02/21/11 17:57
57	P2.022111.180420	L11020266-15	MW86-1	50/50	1		02/21/11 18:04
58	P2.022111.181100	L11020266-16	DIW-21	50/50	1		02/21/11 18:11
59	P2.022111.181643	FBLK	FBLK		1		02/21/11 18:16
60	P2.022111.182324	WG357128-24	CCV		1		02/21/11 18:23
61	P2.022111.183001	WG357128-25	CCB		1		02/21/11 18:30
62	P2.022111.183639	WG357128-26	Low Level Continuing Calibra		1		02/21/11 18:36
63	P2.022111.184317	WG356895-02	Method/Prep Blank	50/50	1		02/21/11 18:43
64	P2.022111.184956	WG356895-03	Laboratory Control S	50/50	1		02/21/11 18:49
65	P2.022111.185639	WG356895-01	Reference Sample		1	L11020447-05	02/21/11 18:56
66	P2.022111.190320	WG356956-03	Post Digestion Spike		1	L11020447-05	02/21/11 19:03
67	P2.022111.191002	WG356956-04	Serial Dilution		5	L11020447-05	02/21/11 19:10
68	P2.022111.191640	WG356895-04	Matrix Spike	50/50	1	L11020447-05	02/21/11 19:16

Page: 2 Approved: February 22, 2011

Esther L. Babgard

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 022111H2.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 10
Maintenance Log ID: 36505

Calibration Std: STD43840 ICV Std: STD43946 Post Spike: STD39932
ICSA: STD44050 ICSAB: STD44051 Int. Std: STD44052
CCV: STD43884 LLCCV:

Workgroups: 356971,356486,356956,356823,356832

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	P2.022111.192321	WG356895-05	Matrix Spike Duplica	50/50	1	L11020447-05	02/21/11 19:23
70	P2.022111.193004	WG357128-27	CCV		1		02/21/11 19:30
71	P2.022111.193641	WG357128-28	CCB		1		02/21/11 19:36
72	P2.022111.194404	WG356762-02	Method/Prep Blank	50/50	1		02/21/11 19:44
73	P2.022111.195042	WG356762-03	Laboratory Control S	50/50	1		02/21/11 19:50
74	P2.022111.195724	WG356762-01	Reference Sample		5	L11020397-01	02/21/11 19:57
75	P2.022111.200405	WG356823-03	Post Digestion Spike		5	L11020397-01	02/21/11 20:04
76	P2.022111.201048	WG356823-04	Serial Dilution		25	L11020397-01	02/21/11 20:10
77	P2.022111.201727	WG356762-04	Matrix Spike	50/50	5	L11020397-01	02/21/11 20:17
78	P2.022111.202410	WG356762-05	Matrix Spike Duplica	50/50	5	L11020397-01	02/21/11 20:24
79	P2.022111.203053	WG357128-29	CCV		1		02/21/11 20:30
80	P2.022111.203730	WG357128-30	CCB		1		02/21/11 20:37
81	P2.022111.204409	WG356765-02	Method/Prep Blank	50/50	1		02/21/11 20:44
82	P2.022111.205050	WG356765-03	Laboratory Control S	50/50	1		02/21/11 20:50
83	P2.022111.205729	L11020402-02	SW1A.258.14	50/50	1		02/21/11 20:57
84	P2.022111.210408	WG356832-01	Post Digestion Spike		1	L11020402-17	02/21/11 21:04
85	P2.022111.211050	WG356832-02	Serial Dilution		5	L11020402-17	02/21/11 21:10
86	P2.022111.211728	L11020402-07	SW2A.258.14		1	WG356765-01	02/21/11 21:17
87	P2.022111.212407	L11020402-08	SW2A.258.14	50/50	1	WG356765-04	02/21/11 21:24
88	P2.022111.213051	L11020402-09	SW2A.258.14	50/50	1	WG356765-05	02/21/11 21:30
89	P2.022111.213732	L11020402-14	SW3A.258.14	50/50	1		02/21/11 21:37
90	P2.022111.214411	L11020402-17	SW3B.258.14	50/50	1		02/21/11 21:44
91	P2.022111.215053	WG357128-31	CCV		1		02/21/11 21:50
92	P2.022111.215739	WG357128-32	CCB		1		02/21/11 21:57
93	P2.022111.220416	L11020402-20	SW4A.258.14	50/50	1		02/21/11 22:04
94	P2.022111.221054	L11020402-23	SW5A.258.14	50/50	1		02/21/11 22:10
95	P2.022111.221733	L11020412-17	392-W0004	50/50	1		02/21/11 22:17
96	P2.022111.222412	L11020412-18	392-W0005	50/50	1		02/21/11 22:24
97	P2.022111.223051	L11020412-19	392-W0006	50/50	1		02/21/11 22:30
98	P2.022111.223734	L11020412-20	392-W0007	50/50	1		02/21/11 22:37
99	P2.022111.224414	L11020412-21	392-W0008	50/50	1		02/21/11 22:44
100	P2.022111.225056	L11020412-22	413-W0001	50/50	1		02/21/11 22:50
101	P2.022111.225736	L11020431-01	129-W0001	50/50	1		02/21/11 22:57
102	P2.022111.230416	L11020434-01	01SYS-EFF-021411	50/50	1		02/21/11 23:04

Page: 3 Approved: February 22, 2011

Esther L. Balogun

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 022111H2.CSV

Analyst1: PDM Analyst2: N/A

Method: 6010 SOP: ME600E Rev: 10

Maintenance Log ID: 36505

Calibration Std: STD43840 ICV Std: STD43946 Post Spike: STD39932

ICSA: STD44050 ICSAB: STD44051 Int. Std: STD44052

CCV: STD43884 LLCCV:

Workgroups: 356971,356486,356956,356823,356832

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	P2.022111.231101	WG357128-33	CCV		1		02/21/11 23:11
104	P2.022111.231742	WG357128-34	CCB		1		02/21/11 23:17
105	P2.022111.232418	PDM	PDM		1		02/21/11 23:24
106	P2.022111.232959	WG357128-35	CCV		1		02/21/11 23:29
107	P2.022111.233636	WG357128-36	CCB		1		02/21/11 23:36

 Approved: February 22, 2011

Microbac Laboratories Inc.

Data Checklist

Date: 18-FEB-2011
Analyst: EDL
Analyst: JYH
Method: 6010
Instrument: ICP-THERMO2
Curve Workgroup: 357012
Runlog ID: 39103
Analytical Workgroups: 356945, 356973, 356993, 356995, 356972, 356976, 356965

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	447, 432, 365, 363, 364, 454, 448
Case Narrative (Continued)	455, 325, 366
Client Forms	X
Level X	
Level 3	
Level 4	447, 432, 365, 363, 364, 454, 448
Level 4 (Continued)	455, 325, 366
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	EDL
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
21-FEB-2011
Erin D. Long

Secondary Reviewer:
21-FEB-2011
Maren Beery

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-21-2011 15:34:16

Microbac Laboratories Inc.

Data Checklist

Date: 18-FEB-2011
Analyst: PDM
Analyst: NA
Method: 6010
Instrument: PE-ICP2
Curve Workgroup: 357093
Runlog ID: 39125
Analytical Workgroups: 356956,356823

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0447,0453,0359,0360,0361,0397,0412
Client Forms	
Level X	
Level 3	0359,0360,0361
Level 4	0447,0453,0397,0412
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
21-FEB-2011
Pierce Morris

Secondary Reviewer:
22-FEB-2011
Sheri L. Babcock

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-22-2011 15:20:35

Microbac Laboratories Inc.

Data Checklist

Date: 21-FEB-2011
Analyst: PDM
Analyst: NA
Method: 6010
Instrument: PE-ICP2
Curve Workgroup: 357128
Runlog ID: 39133
Analytical Workgroups: 356971,356486,356956,356823,356832

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0387,0327,0358,0438,0266,0447,0397
	0412,0431,0434
Client Forms	X
Level X	
Level 3	
Level 4	0387,0266,0447,0397,0412,0431,0434
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
21-FEB-2011
Pierce Morris

Secondary Reviewer:
22-FEB-2011
Sheri L. Babcock

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-22-2011 14:41:23

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 6010B AAB#: WG356945

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-TPS-2-16-11-COM	01	02/16/11					02/17/11	1.2	180		02/18/11	2	180	
SITE #1-TPS-2-16-11-COM	01	02/16/11					02/17/11	1.2	180		02/18/11	2	180	
SITE #1-2-16-11-DUP	02	02/16/11					02/17/11	1.2	180		02/18/11	2	180	
SITE #1-2-16-11-DUP	02	02/16/11					02/17/11	1.2	180		02/18/11	2	180	
SITE #1-2-16-11-MS	03	02/16/11					02/17/11	1.2	180		02/18/11	2	180	
SITE #1-2-16-11-MS	03	02/16/11					02/17/11	1.2	180		02/18/11	2	180	
SITE #1-2-16-11-MSD	04	02/16/11					02/17/11	1.2	180		02/18/11	2	180	
SITE #1-2-16-11-MSD	04	02/16/11					02/17/11	1.2	180		02/18/11	2	180	
SITE #1-2-16-11-CLAY-C	06	02/16/11					02/17/11	1.1	180		02/18/11	2	180	
SITE #1-2-16-11-CLAY-C	06	02/16/11					02/17/11	1.1	180		02/18/11	2	180	
SITE #1-2-16-11-CLAY-C-	07	02/16/11					02/17/11	1.1	180		02/18/11	2	180	
SITE #1-2-16-11-CLAY-C-	07	02/16/11					02/17/11	1.1	180		02/18/11	2	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1923851
Report generated 02/22/2011 14:23

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6010B

AAB#: WG356956

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-2-16-11-FB	05	02/16/11					02/18/11	1.8	180		02/21/11	5.3	180	
SITE #1-2-16-11-FB	05	02/16/11					02/18/11	1.8	180		02/18/11	2.2	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1924601
Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Work Group: WG356945
Blank File ID: T2.021811.111609
Blank Sample ID: WG356852-02
Prep Date: 02/17/11 14:50
Instrument ID: ICP-THERMO2
Analyzed Date: 02/18/11 11:16
Method: 6010B
Analyst: JYH

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356852-03	T2.021811.111951	02/18/11 11:19	01
SITE #1-TPS-2-16-11-COMP	L11020447-01	T2.021811.112321	02/18/11 11:23	01
SITE #1-2-16-11-DUP	L11020447-02	T2.021811.112659	02/18/11 11:26	01
SITE #1-2-16-11-MS	L11020447-03	T2.021811.113036	02/18/11 11:30	01
SITE #1-2-16-11-MSD	L11020447-04	T2.021811.113409	02/18/11 11:34	01
SITE #1-2-16-11-CLAY-C	L11020447-06	T2.021811.113741	02/18/11 11:37	01
SITE #1-2-16-11-CLAY-C-2	L11020447-07	T2.021811.115930	02/18/11 11:59	01
SITE #1-TPS-2-16-11-COMP	L11020447-01	T2.021811.121711	02/18/11 12:17	DL01
SITE #1-2-16-11-DUP	L11020447-02	T2.021811.122045	02/18/11 12:20	DL01
SITE #1-2-16-11-MS	L11020447-03	T2.021811.122420	02/18/11 12:24	DL01
SITE #1-2-16-11-MSD	L11020447-04	T2.021811.122753	02/18/11 12:27	DL01
SITE #1-2-16-11-CLAY-C	L11020447-06	T2.021811.123844	02/18/11 12:38	DL01
SITE #1-2-16-11-CLAY-C-2	L11020447-07	T2.021811.125312	02/18/11 12:53	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1923852
Report generated 02/22/2011 14:23

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Blank File ID: P2.021811.163101
Prep Date: 02/18/11 06:36
Analyzed Date: 02/18/11 16:31
Analyst: PDM

Work Group: WG356956
Blank Sample ID: WG356895-02
Instrument ID: PE-ICP2
Method: 6010B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356895-03	P2.021811.163738	02/18/11 16:37	01
SITE #1-2-16-11-FB	L11020447-05	P2.021811.164428	02/18/11 16:44	01
LCS	WG356895-03	P2.022111.184956	02/21/11 18:49	02
SITE #1-2-16-11-FB	L11020447-05	P2.022111.185639	02/21/11 18:56	02

Report Name: BLANK_SUMMARY
PDF File ID: 1924602
Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Work Group: WG356956
Blank File ID: P2.022111.184317
Blank Sample ID: WG356895-02
Prep Date: 02/18/11 06:36
Instrument ID: PE-ICP2
Analyzed Date: 02/21/11 18:43
Method: 6010B
Analyst: PDM

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356895-03	P2.021811.163738	02/18/11 16:37	01
SITE #1-2-16-11-FB	L11020447-05	P2.021811.164428	02/18/11 16:44	01
LCS	WG356895-03	P2.022111.184956	02/21/11 18:49	02
SITE #1-2-16-11-FB	L11020447-05	P2.022111.185639	02/21/11 18:56	02

Report Name: BLANK_SUMMARY
PDF File ID: 1924602
Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11020447 Prep Date:02/17/11 14:50 Sample ID:WG356852-02
Instrument ID:ICP-THERMO2 Run Date:02/18/11 11:16 Prep Method:3051A
File ID:T2.021811.111609 Analyst:JYH Method:6010B
Workgroup (AAB#):WG356945 Matrix:Soil Units:mg/kg
Contract #: Cal ID:ICP-TH-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Aluminum, Total	10.0	20.0	10.0	1	U
Antimony, Total	0.500	1.00	0.500	1	U
Barium, Total	0.250	0.500	0.250	1	U
Beryllium, Total	0.250	0.500	0.250	1	U
Cadmium, Total	0.250	0.500	0.250	1	U
Calcium, Total	5.00	10.0	5.00	1	U
Chromium, Total	0.500	1.00	0.500	1	U
Cobalt, Total	0.500	1.00	0.500	1	U
Copper, Total	0.500	1.00	0.500	1	U
Iron, Total	1.50	3.00	1.50	1	U
Magnesium, Total	12.5	25.0	12.5	1	U
Manganese, Total	0.250	0.500	0.250	1	U
Nickel, Total	1.00	2.00	1.00	1	U
Potassium, Total	25.0	50.0	25.0	1	U
Silver, Total	1.00	2.00	1.00	1	U
Sodium, Total	12.5	25.0	12.5	1	U
Vanadium, Total	0.250	0.500	0.250	1	U
Zinc, Total	0.500	1.00	0.500	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1923853
22-FEB-2011 14:23

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11020447 Prep Date:02/18/11 06:36 Sample ID:WG356895-02
Instrument ID:PE-ICP2 Run Date:02/18/11 16:31 Prep Method:3005A
File ID:P2.021811.163101 Analyst:PDM Method:6010B
Workgroup (AAB#):WG356956 Matrix:Water Units:mg/L
Contract #: Cal ID:PE-ICP-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Aluminum, Total	0.0500	0.100	0.0500	1	U
Arsenic, Total	0.00500	0.0100	0.00500	1	U
Barium, Total	0.00500	0.0100	0.00500	1	U
Beryllium, Total	0.00500	0.0100	0.00500	1	U
Cadmium, Total	0.00500	0.0100	0.00500	1	U
Chromium, Total	0.0100	0.0200	0.0100	1	U
Cobalt, Total	0.0100	0.0200	0.0100	1	U
Copper, Total	0.0100	0.0200	0.0100	1	U
Iron, Total	0.0500	0.100	0.0500	1	U
Lead, Total	0.00250	0.00500	0.00250	1	U
Magnesium, Total	0.250	0.500	0.250	1	U
Manganese, Total	0.00500	0.0100	0.00500	1	U
Nickel, Total	0.0200	0.0400	0.0200	1	U
Potassium, Total	0.500	1.00	0.500	1	U
Silver, Total	0.00500	0.0100	0.00500	1	U
Sodium, Total	0.250	0.500	0.250	1	U
Vanadium, Total	0.00500	0.0100	0.00500	1	U
Zinc, Total	0.0100	0.0200	0.0100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1924603
22-FEB-2011 09:35

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/18/11 06:36 Sample ID: WG356895-02
Instrument ID: PE-ICP2 Run Date: 02/21/11 18:43 Prep Method: 3005A
File ID: P2.022111.184317 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG356956 Matrix: Water Units: mg/L
Contract #: Cal ID: PE-ICP-21-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Calcium, Total	0.100	0.200	0.100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1924603
22-FEB-2011 09:35

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356852-03
Instrument ID: ICP-THERMO2 Run Time: 11:19 Prep Method: 3051A
File ID: T2.021811.111951 Analyst: JYH Method: 6010B
Workgroup (AAB#): WG356945 Matrix: Soil Units: mg/kg
QC Key: DOD4 Lot#: STD39933 Cal ID: ICP-TH-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	250	221	88.4	80 - 120	
Antimony, Total	30.0	27.3	90.9	80 - 120	
Barium, Total	25.0	23.7	94.8	80 - 120	
Beryllium, Total	1.25	1.16	92.5	80 - 120	
Cadmium, Total	1.25	1.16	92.7	80 - 120	
Calcium, Total	250	236	94.3	80 - 120	
Chromium, Total	12.5	11.7	93.3	80 - 120	
Cobalt, Total	5.00	4.79	95.8	80 - 120	
Copper, Total	12.5	11.7	93.4	80 - 120	
Iron, Total	100	93.2	93.2	80 - 120	
Magnesium, Total	250	237	94.8	80 - 120	
Manganese, Total	12.5	11.8	94.6	80 - 120	
Nickel, Total	12.5	11.9	95.4	80 - 120	
Potassium, Total	1250	1180	94.3	80 - 120	
Silver, Total	10.0	9.11	91.1	75 - 120	
Sodium, Total	1250	1220	97.3	80 - 120	
Vanadium, Total	25.0	24.0	95.8	80 - 120	
Zinc, Total	25.0	23.7	94.6	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1923854
Report generated: 02/22/2011 14:23

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356895-03
Instrument ID: PE-ICP2 Run Time: 16:37 Prep Method: 3005A
File ID: P2.021811.163738 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG356956 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD39933 Cal ID: PE-ICP-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	5.00	5.12	102	80 - 120	
Arsenic, Total	0.200	0.195	97.7	80 - 120	
Barium, Total	0.500	0.486	97.2	80 - 120	
Beryllium, Total	0.0250	0.0255	102	80 - 120	
Cadmium, Total	0.0250	0.0240	96.1	80 - 120	
Chromium, Total	0.250	0.240	95.9	80 - 120	
Cobalt, Total	0.100	0.0938	93.8	80 - 120	
Copper, Total	0.250	0.255	102	80 - 120	
Iron, Total	2.00	1.89	94.6	80 - 120	
Lead, Total	0.250	0.242	97.0	80 - 120	
Magnesium, Total	5.00	4.84	96.8	80 - 120	
Manganese, Total	0.250	0.248	99.3	80 - 120	
Nickel, Total	0.250	0.241	96.6	80 - 120	
Potassium, Total	25.0	25.0	100	80 - 120	
Silver, Total	0.200	0.201	100	80 - 120	
Sodium, Total	25.0	25.2	101	80 - 120	
Vanadium, Total	0.500	0.477	95.4	80 - 120	
Zinc, Total	0.500	0.480	95.9	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1924604
Report generated: 02/22/2011 09:35

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG356895-03
Instrument ID: PE-ICP2 Run Time: 18:49 Prep Method: 3005A
File ID: P2.022111.184956 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG356956 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD39933 Cal ID: PE-ICP-21-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Calcium, Total	5.00	5.09	102	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1924604
Report generated: 02/22/2011 09:35

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L11020447 Cal ID: ICP-THERMO2- 18-FEB-11 Worknum:WG356945

Instrument ID:ICP-THERMO2 Contract #: Prep Method:3051A

Parent ID:L11020447-01 File ID:T2.021811.112321 Dil:1 Method:6010B

Sample ID:L11020447-03 MS File ID:T2.021811.113036 Dil:1 Matrix:Soil

Sample ID:L11020447-04 MSD File ID:T2.021811.113409 Dil:1 Units:mg/kg

Percent Solid:84.0

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum, Total	5150	217	5250	42.6	217	5170	8.6	1.42	80 - 120	20	*
Antimony, Total	U	26.1	21.4	82.2	26.1	21.2	81.2	1.30	80 - 120	20	
Barium, Total	56.6	21.7	70.5	64	21.7	63.7	32.6	10.1	80 - 120	20	*
Beryllium, Total	0.480	1.09	1.33	77.8	1.09	1.26	72.1	4.77	80 - 120	20	*
Cadmium, Total	U	1.09	0.984	90.6	1.09	0.969	89.2	1.47	80 - 120	20	
Chromium, Total	9.93	10.9	18.3	77	10.9	16.9	64.1	7.99	80 - 120	20	*
Cobalt, Total	9.21	4.34	11.8	59.2	4.34	9.61	9.05	20.4	80 - 120	20	*#
Copper, Total	10.6	10.9	19.3	79.5	10.9	16.8	56.3	14.0	80 - 120	20	*
Iron, Total	16400	86.9	15100	-1500	86.9	12200	-4870	21.5	80 - 120	20	*#
Magnesium, Total	590	217	738	68.1	217	682	42.4	7.87	80 - 120	20	*
Nickel, Total	6.28	10.9	15.5	85.2	10.9	13.9	69.8	11.4	80 - 120	20	*
Potassium, Total	344	1090	1230	81.4	1090	1180	77	3.91	80 - 120	20	*
Silver, Total	U	8.69	7.19	82.8	8.69	7.22	83.1	0.470	75 - 120	20	
Sodium, Total	U	1090	969	89.3	1090	957	88.1	1.28	80 - 120	20	
Vanadium, Total	23.7	21.7	41.3	81	21.7	38.1	66.5	7.97	80 - 120	20	*
Zinc, Total	18.0	21.7	35.0	78.2	21.7	32.4	66.3	7.69	80 - 120	20	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 1923855

Report generated 02/23/2011 16:25

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L11020447 Cal ID: ICP-THERMO2- 18-FEB-11 Worknum:WG356945
Instrument ID:ICP-THERMO2 Contract #: Prep Method:3051A
Parent ID:L11020447-01 File ID:T2.021811.121711 Dil:20 Method:6010B
Sample ID:L11020447-03 MS File ID:T2.021811.122420 Dil:20 Matrix:Soil
Sample ID:L11020447-04 MSD File ID:T2.021811.122753 Dil:20 Units:mg/kg
Percent Solid:84.0

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Calcium, Total	828	217	1030	93.7	217	1160	151	11.4	80 - 120	20	*
Manganese, Total	670	10.9	713	393	10.9	567	-950	22.8	80 - 120	20	*#

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
PDF File ID: 1923855
Report generated 02/23/2011 16:25

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11020447 Cal ID:PE-ICP2- Worknum:WG356956
Instrument ID:PE-ICP2 Contract #: Method:6010B
Parent ID:WG356895-01 File ID:P2.021811.164428 Dil:1 Matrix:WATER
Sample ID:WG356895-04 MS File ID:P2.021811.165107 Dil:1 Units:mg/L
Sample ID:WG356895-05 MSD File ID:P2.021811.165751 Dil:1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum, Total	ND	5.00	5.23	105	5.00	5.25	105	0.237	80 - 120	20	
Arsenic, Total	ND	0.200	0.200	100	0.200	0.195	97.5	2.60	80 - 120	20	
Barium, Total	ND	0.500	0.485	97.0	0.500	0.497	99.5	2.58	80 - 120	20	
Beryllium, Total	ND	0.0250	0.0255	102	0.0250	0.0258	103	1.18	80 - 120	20	
Cadmium, Total	ND	0.0250	0.0247	98.7	0.0250	0.0246	98.3	0.410	80 - 120	20	
Chromium, Total	ND	0.250	0.241	96.4	0.250	0.245	98.2	1.77	80 - 120	20	
Cobalt, Total	ND	0.100	0.0961	96.1	0.100	0.0960	96.0	0.0922	80 - 120	20	
Copper, Total	ND	0.250	0.253	101	0.250	0.257	103	1.25	80 - 120	20	
Iron, Total	ND	2.00	1.88	94.0	2.00	1.85	92.7	1.43	80 - 120	20	
Lead, Total	ND	0.250	0.248	99.0	0.250	0.249	99.5	0.496	80 - 120	20	
Magnesium, Total	ND	5.00	4.83	96.6	5.00	4.77	95.3	1.26	80 - 120	20	
Manganese, Total	ND	0.250	0.246	98.4	0.250	0.251	100	2.04	80 - 120	20	
Nickel, Total	ND	0.250	0.244	97.5	0.250	0.246	98.5	0.973	80 - 120	20	
Potassium, Total	ND	25.0	25.4	102	25.0	25.1	101	1.09	80 - 120	20	
Silver, Total	ND	0.200	0.201	100	0.200	0.203	101	0.959	80 - 120	20	
Sodium, Total	ND	25.0	25.5	102	25.0	25.4	102	0.363	80 - 120	20	
Vanadium, Total	ND	0.500	0.477	95.5	0.500	0.488	97.6	2.14	80 - 120	20	
Zinc, Total	ND	0.500	0.480	96.1	0.500	0.488	97.6	1.60	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID:1924605
Report generated 02/23/2011 16:25

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11020447 Cal ID:PE-ICP2- Worknum:WG356956
Instrument ID:PE-ICP2 Contract #: Method:6010B
Parent ID:WG356895-01 File ID:P2.022111.185639 Dil:1 Matrix:WATER
Sample ID:WG356895-04 MS File ID:P2.022111.191640 Dil:1 Units:mg/L
Sample ID:WG356895-05 MSD File ID:P2.022111.192321 Dil:1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Calcium, Total	ND	5.00	4.95	99.1	5.00	4.94	98.8	0.326	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID:1924605
Report generated 02/23/2011 16:25

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020447 **Worknum:** WG356945
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG356945-02 **File ID:** T2.021811.114504 **Dil:** 5 **Units:** mg/L
Sample: L11020447-06 **File ID:** T2.021811.113741 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	295		353.5		19.80	E
Antimony	.0221	X	ND	U		
Barium	.36		.3655		1.53	
Beryllium	.0127	X	ND	U		
Cadmium	ND	U	ND	U		
Calcium	5.8		6		3.45	
Chromium	.74		.775		4.73	
Cobalt	.0789	X	.085	F	7.73	
Copper	.605		.645		6.61	
Iron	1050		1135		8.10	
Magnesium	14.7		15.65		6.46	
Manganese	.999		1.035		3.60	
Nickel	.311	X	.3395	X	9.16	
Potassium	8.64	X	8.65	X	0.12	
Silver	ND	U	ND	U		
Sodium	ND	U	ND	U		
Vanadium	1.82		1.875		3.02	
Zinc	.295	X	.3165	X	7.29	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1923849
02/22/2011 14:23

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020447 **Worknum:** WG356945
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG356945-02 **File ID:** T2.021811.124552 **Dil:** 100 **Units:** mg/L
Sample: L11020447-06 **File ID:** T2.021811.123844 **Dil:** 20

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	400		396		1.00	
Antimony	ND	U	ND	U		
Barium	.4	X	ND	U		
Beryllium	ND	U	ND	U		
Cadmium	ND	U	ND	U		
Calcium	5.92	X	ND	U		
Chromium	.832	X	ND	U		
Cobalt	ND	U	ND	U		
Copper	.674	X	ND	U		
Iron	1218		1210		0.66	
Magnesium	17.08	X	ND	U		
Manganese	1.114	X	1.12	X	0.54	
Nickel	ND	U	ND	U		
Potassium	ND	U	ND	U		
Silver	ND	U	ND	U		
Sodium	ND	U	ND	U		
Vanadium	2	X	2.01	X	0.50	
Zinc	.366	F	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1923849
02/22/2011 14:23

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020447 **Worknum:** WG356956
Instrument: PE-ICP2 **Method:** 6010B
Serial Dil: WG356956-02 **File ID:** P2.021811.171751 **Dil:** 5 **Units:** mg/L
Sample: L11020453-01 **File ID:** P2.021811.170431 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	ND	U	ND	U		
Arsenic	ND	U	ND	U		
Barium	ND	U	ND	U		
Beryllium	ND	U	ND	U		
Cadmium	ND	U	ND	U		
Calcium	ND	U	ND	U		
Chromium	ND	U	ND	U		
Cobalt	ND	U	ND	U		
Copper	ND	U	ND	U		
Iron	ND	U	ND	U		
Lead	ND	U	ND	U		
Magnesium	ND	U	ND	U		
Manganese	ND	U	ND	U		
Nickel	ND	U	ND	U		
Potassium	ND	U	ND	U		
Silver	ND	U	ND	U		
Sodium	.326	F	ND	U		
Vanadium	ND	U	ND	U		
Zinc	ND	U	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1924599
02/22/2011 09:35

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020447 **Worknum:** WG356956
Instrument: PE-ICP2 **Method:** 6010B
Serial Dil: WG356956-04 **File ID:** P2.022111.191002 **Dil:** 5 **Units:** mg/L
Sample: L11020447-05 **File ID:** P2.022111.185639 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	ND	U	ND	U		
Arsenic	ND	U	ND	U		
Barium	ND	U	ND	U		
Beryllium	ND	U	ND	U		
Cadmium	ND	U	ND	U		
Calcium	ND	U	ND	U		
Chromium	ND	U	ND	U		
Cobalt	ND	U	ND	U		
Copper	ND	U	ND	U		
Iron	ND	U	ND	U		
Lead	ND	U	ND	U		
Magnesium	ND	U	ND	U		
Manganese	ND	U	ND	U		
Nickel	ND	U	ND	U		
Potassium	ND	U	ND	U		
Silver	ND	U	ND	U		
Sodium	ND	U	ND	U		
Vanadium	ND	U	ND	U		
Zinc	ND	U	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1924599
02/22/2011 09:35

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020447 **Worknum:** WG356945
Instrument ID: ICP-THERMO2 **Method:** 6010B
Post Spike ID: WG356945-01 **File ID:** T2.021811.114121 **Dil:** 1 **Units:** mg/L
Sample ID: L11020447-06 **File ID:** T2.021811.113741 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	260		295		5	-112.4	75 - 125	N
ANTIMONY	0.555		0.0221		.6	89.1	75 - 125	
BARIUM	0.790		0.360		.5	93.3	75 - 125	
BERYLLIUM	0.0337		0.0127		.025	89.1	75 - 125	
CADMIUM	0.0242		0	U	.025	96.8	75 - 125	
CALCIUM	9.89		5.80		5	93.5	75 - 125	
CHROMIUM	0.856		0.740		.25	75.9	75 - 125	
COBALT	0.161		0.0789		.1	90.4	75 - 125	
COPPER	0.762		0.605		.25	86.8	75 - 125	
IRON	960		1050		2	694.5	75 - 125	N
MAGNESIUM	17.7		14.7		5	88.0	75 - 125	
MANGANESE	1.12		0.999		.25	89.0	75 - 125	
NICKEL	0.506		0.311		.25	90.2	75 - 125	
POTASSIUM	31.2		8.64		25	93.5	75 - 125	
SILVER	0.191		0	U	.2	95.7	75 - 125	
SODIUM	24.2		0	U	25	96.8	75 - 125	
VANADIUM	2.04		1.82		.5	80.9	75 - 125	
ZINC	0.718		0.295		.5	90.5	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1923850
Report generated: 02/22/2011 14:23

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020447 **Worknum:** WG356945
Instrument ID: ICP-THERMO2 **Method:** 6010B
Post Spike ID: WG356945-01 **File ID:** T2.021811.124222 **Dil:** 20 **Units:** mg/L
Sample ID: L11020447-06 **File ID:** T2.021811.123844 **Dil:** 20 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	24.0		20.0		5	78.1	75 - 125	
ANTIMONY	0.626		0	U	.6	104.4	75 - 125	
BARIUM	0.528		0.0200		.5	101.7	75 - 125	
BERYLLIUM	0.0261		0	U	.025	104.4	75 - 125	
CADMIUM	0.0264		0	U	.025	105.7	75 - 125	
CALCIUM	5.39		0.296		5	101.8	75 - 125	
CHROMIUM	0.290		0.0416		.25	99.4	75 - 125	
COBALT	0.110		0	U	.1	110.1	75 - 125	
COPPER	0.296		0.0337		.25	104.7	75 - 125	
IRON	61.9		60.9		2	50.6	75 - 125	N
MAGNESIUM	5.99		0.854		5	102.7	75 - 125	
MANGANESE	0.309		0.0557		.25	101.2	75 - 125	
NICKEL	0.281		0	U	.25	112.6	75 - 125	
POTASSIUM	26.1		0	U	25	104.2	75 - 125	
SILVER	0.209		0	U	.2	104.5	75 - 125	
SODIUM	26.4		0	U	25	105.6	75 - 125	
VANADIUM	0.607		0.100		.5	101.3	75 - 125	
ZINC	0.545		0.0183	F	.5	105.3	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1923850
Report generated: 02/22/2011 14:23

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020447 **Worknum:** WG356956
Instrument ID: PE-ICP2 **Method:** 6010B
Post Spike ID: WG356956-01 **File ID:** P2.021811.171112 **Dil:** 1 **Units:** mg/L
Sample ID: L11020453-01 **File ID:** P2.021811.170431 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	5.17		0	U	5	103.4	75 - 125	
ARSENIC	0.195		0	U	.2	97.4	75 - 125	
BARIUM	0.480		0	U	.5	96.0	75 - 125	
BERYLLIUM	0.0253		0	U	.025	101.3	75 - 125	
CADMIUM	0.0240		0	U	.025	95.9	75 - 125	
CALCIUM	5.11		0	U	5	102.1	75 - 125	
CHROMIUM	0.236		0	U	.25	94.4	75 - 125	
COBALT	0.0937		0	U	.1	93.7	75 - 125	
COPPER	0.255		0	U	.25	102.2	75 - 125	
IRON	1.88		0	U	2	94.1	75 - 125	
LEAD	0.242		0	U	.25	96.7	75 - 125	
MAGNESIUM	4.81		0	U	5	96.2	75 - 125	
MANGANESE	0.245		0	U	.25	98.1	75 - 125	
NICKEL	0.239		0	U	.25	95.5	75 - 125	
POTASSIUM	24.8		0	U	25	99.3	75 - 125	
SILVER	0.200		0	U	.2	100.0	75 - 125	
SODIUM	25.3		0.326	F	25	99.9	75 - 125	
VANADIUM	0.470		0	U	.5	94.0	75 - 125	
ZINC	0.475		0	U	.5	95.0	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1924600
Report generated: 02/22/2011 09:35

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020447 **Worknum:** WG356956
Instrument ID: PE-ICP2 **Method:** 6010B
Post Spike ID: WG356956-03 **File ID:** P2.022111.190320 **Dil:** 1 **Units:** mg/L
Sample ID: L11020447-05 **File ID:** P2.022111.185639 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	5.44		0	U	5	108.9	75 - 125	
ARSENIC	0.190		0	U	.2	94.8	75 - 125	
BARIUM	0.516		0	U	.5	103.3	75 - 125	
BERYLLIUM	0.0249		0	U	.025	99.7	75 - 125	
CADMIUM	0.0242		0	U	.025	97.0	75 - 125	
CALCIUM	5.03		0	U	5	100.5	75 - 125	
CHROMIUM	0.256		0	U	.25	102.5	75 - 125	
COBALT	0.0998		0	U	.1	99.9	75 - 125	
COPPER	0.252		0	U	.25	100.9	75 - 125	
IRON	2.19		0	U	2	109.7	75 - 125	
LEAD	0.263		0	U	.25	105.2	75 - 125	
MAGNESIUM	5.51		0	U	5	110.2	75 - 125	
MANGANESE	0.262		0	U	.25	105.0	75 - 125	
NICKEL	0.258		0	U	.25	103.1	75 - 125	
POTASSIUM	26.7		0	U	25	106.7	75 - 125	
SILVER	0.199		0	U	.2	99.7	75 - 125	
SODIUM	26.6		0	U	25	106.6	75 - 125	
VANADIUM	0.509		0	U	.5	101.7	75 - 125	
ZINC	0.512		0	U	.5	102.4	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1924600
Report generated: 02/22/2011 09:35

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020447**	Workgroup (AAB#):	**WG356945**
Analytical Method:	**6010B**	Instrument ID:	**ICP-THERMO2**
ICAL Worknum:	**WG357012**	Initial Calibration Date:	**18-FEB-2011 10:50**

	WG357012-01		WG357012-02		WG357012-03		WG357012-04		WG357012-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ALUMINUM	0	0.00907	.1	0.0143	.2	0.0185	10	0.459	20	0.890	.999883	
ANTIMONY	0	0.0000500	.012	0.000110	.024	0.000200	1.2	0.00928	2.4	0.0179	.999648	
BARIUM	0	0.00313	.01	0.00704	.02	0.0105	1	0.369	2	0.713	.999879	
BERYLLIUM	0	-0.00114	.0005	0.000320	.001	0.00165	.05	0.140	.1	0.281	.999998	
CADMIUM	0	0.0000500	.0005	0.000120	.001	0.000200	.05	0.00861	.1	0.0167	.999839	
CALCIUM	0	-0.00129	.1	-0.000640	.2	-0.0000400	10	0.0658	20	0.128	.999873	
CHROMIUM	0	0.000750	.005	0.00168	.01	0.00257	.5	0.0922	1	0.181	.999977	
COBALT	0	-0.0000100	.002	0.000300	.004	0.000600	.2	0.0294	.4	0.0566	.999817	
COPPER	0	0.000180	-1	0.000360	.01	0.000600	.5	0.0200	1	0.0383	.999792	
IRON	0	0.0000200	.04	0.000310	.08	0.000610	4	0.0300	8	0.0579	.999854	
MAGNESIUM	0	0	.1	0.000300	.2	0.000510	10	0.0239	20	0.0460	.999695	
MANGANESE	0	0.0000600	.005	0.000460	.01	0.000920	.5	0.0420	1	0.0809	.999844	
NICKEL	0	-0.000270	.005	-0.000130	.01	0	.5	0.0139	1	0.0270	.999811	
POTASSIUM	0	0.00239	.5	0.00420	1	0.00634	50	0.201	100	0.388	.999878	
SILVER	0	0.000340	20	0.00126	.008	0.00196	.4	0.0726	.8	0.142	.999775	
SODIUM	0	-0.00183	.5	0.00441	1	0.0114	50	0.667	100	1.29	.999842	
VANADIUM	0	0	.01	0.00271	.02	0.00510	1	0.263	2	0.520	.999976	
ZINC	0	-0.0000900	.01	0.00148	.02	0.00306	1	0.159	2	0.308	.999881	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1923859
Report generated: 22-FEB-2011 14:23

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020447**	Workgroup (AAB#):	**WG356956**
Analytical Method:	**6010B**	Instrument ID:	**PE-ICP2**
ICAL Worknum:	**WG357093**	Initial Calibration Date:	**18-FEB-2011 14:54**

	WG357093-01		WG357093-02		WG357093-03		WG357093-04		WG357093-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ALUMINUM	0	-234	.1	533	.2	1030	10	50700	20	98100	.999871	
ARSENIC	0	2.57	NA	NA	.008	8.72	.4	436	.8	877	.999996	
BARIUM	0	-52.6	.01	601	.02	1200	1	59200	2	118000	.999987	
BERYLLIUM	0	-599	.0005	300	.001	590	.05	29500	.1	58900	.999992	
CADMIUM	0	24.6	.0005	6.14	.001	16.8	.05	884	.1	1770	.998288	
CALCIUM	0	-43.1	NA	NA	.2	26.8	10	1060	20	2140	.999985	
CHROMIUM	0	-69.5	.005	616	.01	1200	.5	56600	1	112000	.999931	
COBALT	0	-21.2	.002	35.7	.004	77.5	.1	3890	.4	7700	.999732	
COPPER	0	-1330	.005	764	.01	1490	.5	72200	1	144000	.999999	
IRON	0	1.32	.04	20.1	.08	39.4	4	1830	8	3680	.999874	
LEAD	0	38.4	.005	29.6	.01	59.0	.5	2980	1	5900	.99999	
MAGNESIUM	0	12.0	.1	85.2	.2	167	10	8200	20	16500	.999997	
MANGANESE	0	125	.005	2330	.01	4570	.5	223000	1	440000	.999968	
NICKEL	0	2.37	.005	168	.01	349	.5	17100	1	34100	.999864	
POTASSIUM	0	236	.5	1260	1	2560	50	130000	100	256000	1	
SILVER	0	-1040	.004	708	.008	1570	.4	80000	.8	160000	.99976	
SODIUM	0	1450	.5	6790	1	13900	50	676000	100	1320000	1	
VANADIUM	0	4300	.01	1310	.02	2810	1	149000	2	299000	.999995	
ZINC	0	3.73	.01	341	.02	676	1	33000	2	65900	.99999	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1924608
Report generated: 22-FEB-2011 09:35

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020447**	Workgroup (AAB#):	**WG356956**
Analytical Method:	**6010B**	Instrument ID:	**PE-ICP2**
ICAL Worknum:	**WG357128**	Initial Calibration Date:	**21-FEB-2011 12:22**

	WG357128-01		WG357128-02		WG357128-03		WG357128-04		WG357128-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ALUMINUM	0	-140	.1	493	.2	1000	10	51900	20	102000	.999939	
ARSENIC	0	1.94	NA	NA	.008	8.89	.4	422	.8	857	.999969	
BARIUM	0	-52.6	.01	587	.02	1170	1	57200	2	114000	.999977	
BERYLLIUM	0	-575	.0005	284	.001	562	.05	28500	.1	57100	.999971	
CADMIUM	0	20.4	.0005	10.9	.001	18.5	.05	867	.1	1750	.999187	
CALCIUM	0	-38.4	NA	NA	.2	16.7	10	1030	20	2120	.999925	
CHROMIUM	0	-44.6	.005	571	.01	1170	.5	55700	1	111000	.999776	
COBALT	0	-24.7	.002	38.5	.004	73.8	.1	3760	.4	7550	.999833	
COPPER	0	-1310	.005	695	.01	1380	.5	72200	1	144000	.999917	
IRON	0	4.34	.04	17.2	.08	34.1	4	1810	8	3720	.999646	
LEAD	0	32.4	.005	40.5	.01	59.6	.5	2850	1	5730	.995164	
MAGNESIUM	0	16.1	.1	69.0	.2	153	10	8160	20	16800	.999896	
MANGANESE	0	188	.005	2260	.01	4480	.5	219000	1	435000	.999983	
NICKEL	0	0.854	.005	161	.01	334	.5	16700	1	33300	.999931	
POTASSIUM	0	91.5	.5	1420	1	2750	50	133000	100	267000	1	
SILVER	0	-1450	.004	922	.008	1770	.4	79900	.8	159000	.999852	
SODIUM	0	-15.5	.5	7060	1	14300	50	686000	100	1370000	1	
VANADIUM	0	4510	.01	1410	.02	2870	1	146000	2	295000	.999993	
ZINC	0	17.7	.01	316	.02	639	1	31600	2	63500	.999981	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1924608
Report generated: 22-FEB-2011 09:35

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-07
Instrument ID: ICP-THERMO2 Run Time: 10:57 Method: 6010B
File ID: T2.021811.105753 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG356945 Cal ID: ICP-THERI - 18-FEB-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.2	.4	.2	U
ANTIMONY	.01	.02	.01	U
BARIUM	.005	.01	.005	U
BERYLLIUM	.005	.01	.005	U
CADMIUM	.005	.01	.005	U
CALCIUM	.1	.2	.1	U
CHROMIUM	.01	.02	.01	U
COBALT	.01	.02	.01	U
COPPER	.01	.02	.01	U
IRON	.03	.06	.03	U
MAGNESIUM	.25	.5	.25	U
MANGANESE	.005	.01	.005	U
NICKEL	.02	.04	.02	U
POTASSIUM	.5	1	.5	U
SILVER	.02	.04	.02	U
SODIUM	.25	.5	.25	U
VANADIUM	.005	.01	.005	U
ZINC	.01	.02	.01	U

U = Result is less than 2 x MDL

F = Result is between MDL and 2 x MDL

* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1923861
Report generated 02/22/2011 14:23

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357093-07
Instrument ID: PE-ICP2 Run Time: 15:08 Method: 6010B
File ID: P2.021811.150801 Analyst: PDM Units: mg/L
Workgroup (AAB#): WG356956 Cal ID: PE-ICP2 - 18-FEB-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.05	.1	.05	U
ARSENIC	.005	.01	.005	U
BARIUM	.005	.01	.005	U
BERYLLIUM	.005	.01	.005	U
CADMIUM	.005	.01	.005	U
CALCIUM	.1	.2	.1	U
CHROMIUM	.01	.02	.01	U
COBALT	.01	.02	.01	U
COPPER	.01	.02	.01	U
IRON	.05	.1	.05	U
LEAD	.0025	.005	.0025	U
MAGNESIUM	.25	.5	.25	U
MANGANESE	.005	.01	.005	U
NICKEL	.02	.04	.02	U
POTASSIUM	.5	1	.5	U
SILVER	.005	.01	.005	U
SODIUM	.25	.5	.25	U
VANADIUM	.005	.01	.005	U
ZINC	.01	.02	.01	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1924610
Report generated 02/22/2011 09:35

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357128-07
Instrument ID: PE-ICP2 Run Time: 12:35 Method: 6010B
File ID: P2.022111.123559 Analyst: PDM Units: mg/L
Workgroup (AAB#): WG356956 Cal ID: PE-ICP2 - 21-FEB-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.05	.1	.05	U
ARSENIC	.005	.01	.005	U
BARIUM	.005	.01	.005	U
BERYLLIUM	.005	.01	.005	U
CADMIUM	.005	.01	.005	U
CALCIUM	.1	.2	.1	U
CHROMIUM	.01	.02	.01	U
COBALT	.01	.02	.01	U
COPPER	.01	.02	.01	U
IRON	.05	.1	.05	U
LEAD	.0025	.005	.0025	U
MAGNESIUM	.25	.5	.25	U
MANGANESE	.005	.01	.005	U
NICKEL	.02	.04	.02	U
POTASSIUM	.5	1	.5	U
SILVER	.005	.01	.005	U
SODIUM	.25	.5	.25	U
VANADIUM	.005	.01	.005	U
ZINC	.01	.02	.01	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1924610
Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-11

Instrument ID: ICP-THERMO2 Run Time: 11:12 Method: 6010B

File ID: T2.021811.111229 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG356945 Cal ID: ICP-TH - 18-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	0.100	U
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.0200	0.0400	0.0200	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1923864
Report generated 02/22/2011 14:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-13

Instrument ID: ICP-THERMO2 Run Time: 11:55 Method: 6010B

File ID: T2.021811.115549 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG356945 Cal ID: ICP-TH - 18-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	0.100	U
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.0200	0.0400	0.0200	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1923864
Report generated 02/22/2011 14:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-16

Instrument ID: ICP-THERMO2 Run Time: 12:35 Method: 6010B

File ID: T2.021811.123502 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG356945 Cal ID: ICP-TH - 18-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	0.100	U
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.0200	0.0400	0.0200	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-18

Instrument ID: ICP-THERMO2 Run Time: 13:11 Method: 6010B

File ID: T2.021811.131141 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG356945 Cal ID: ICP-TH - 18-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	0.100	U
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.0200	0.0400	0.0200	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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Report generated 02/22/2011 14:23

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CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357093-12

Instrument ID: PE-ICP2 Run Time: 15:39 Method: 6010B

File ID: P2.021811.153917 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 18-FEB-11

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	-0.104	F
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0500	0.100	0.0500	U
Lead	0.00250	0.00500	0.00250	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.00500	0.0100	0.00500	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357093-15

Instrument ID: PE-ICP2 Run Time: 16:24 Method: 6010B

File ID: P2.021811.162424 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 18-FEB-11

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	0.100	U
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0500	0.100	0.0500	U
Lead	0.00250	0.00500	0.00250	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.00500	0.0100	0.00500	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357093-17

Instrument ID: PE-ICP2 Run Time: 17:44 Method: 6010B

File ID: P2.021811.174427 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 18-FEB-11

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	0.100	U
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0500	0.100	0.0500	U
Lead	0.00250	0.00500	0.00250	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.00500	0.0100	0.00500	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357128-12
Instrument ID: PE-ICP2 Run Time: 13:07 Method: 6010B
File ID: P2.022111.130723 Analyst: PDM Units: mg/L
Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 21-FEB-11
Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	0.100	U
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0500	0.100	0.0500	U
Lead	0.00250	0.00500	0.00250	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.00500	0.0100	0.00500	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357128-25

Instrument ID: PE-ICP2 Run Time: 18:30 Method: 6010B

File ID: P2.022111.183001 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 21-FEB-11

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	0.100	U
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0500	0.100	0.0500	U
Lead	0.00250	0.00500	0.00250	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.00500	0.0100	0.00500	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

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CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357128-28
Instrument ID: PE-ICP2 Run Time: 19:36 Method: 6010B
File ID: P2.022111.193641 Analyst: PDM Units: mg/L
Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 21-FEB-11
Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Beryllium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Calcium	0.100	0.200	0.100	U
Chromium	0.0100	0.0200	0.0100	U
Cobalt	0.0100	0.0200	0.0100	U
Copper	0.0100	0.0200	0.0100	U
Iron	0.0500	0.100	0.0500	U
Lead	0.00250	0.00500	0.00250	U
Magnesium	0.250	0.500	0.250	U
Manganese	0.00500	0.0100	0.00500	U
Nickel	0.0200	0.0400	0.0200	U
Potassium	0.500	1.00	0.500	U
Silver	0.00500	0.0100	0.00500	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.0100	0.0200	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1924613
Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-06

Instrument ID: ICP-THERMO2 Run Time: 10:54 Method: 6010B

File ID: T2.021811.105422 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG356945 Cal ID: ICP-TH - 18-FEB-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	9.60	96.0	90 - 110	
Antimony		1.2	1.12	93.4	90 - 110	
Barium		1	0.958	95.8	90 - 110	
Beryllium		.05	0.0488	97.7	90 - 110	
Cadmium		.05	0.0482	96.3	90 - 110	
Calcium		10	9.51	95.1	90 - 110	
Chromium		.5	0.486	97.2	90 - 110	
Cobalt		.2	0.193	96.7	90 - 110	
Copper		.5	0.478	95.5	90 - 110	
Iron		4	3.82	95.4	90 - 110	
Magnesium		10	9.58	95.8	90 - 110	
Manganese		.5	0.475	94.9	90 - 110	
Nickel		.5	0.479	95.8	90 - 110	
Potassium		50	48.3	96.6	90 - 110	
Silver		.4	0.381	95.3	90 - 110	
Sodium		50	46.5	93.1	90 - 110	
Vanadium		1	0.982	98.2	90 - 110	
Zinc		1	0.970	97.0	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1923860

Report generated 02/22/2011 14:23

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357093-06

Instrument ID: PE-ICP2 Run Time: 15:01 Method: 6010B

File ID: P2.021811.150115 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 18-FEB-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	10.1	101	90 - 110	
Arsenic		.4	0.383	95.8	90 - 110	
Barium		1	0.987	98.7	90 - 110	
Beryllium		.05	0.0489	97.8	90 - 110	
Cadmium		.05	0.0473	94.5	90 - 110	
Calcium		10	10.2	102	90 - 110	
Chromium		.5	0.490	98.1	90 - 110	
Cobalt		.2	0.192	95.9	90 - 110	
Copper		.5	0.492	98.4	90 - 110	
Iron		4	3.89	97.3	90 - 110	
Lead		.5	0.502	100	90 - 110	
Magnesium		10	9.80	98.0	90 - 110	
Manganese		.5	0.505	101	90 - 110	
Nickel		.5	0.495	99.0	90 - 110	
Potassium		50	48.7	97.3	90 - 110	
Silver		.4	0.385	96.3	90 - 110	
Sodium		50	47.5	95.0	90 - 110	
Vanadium		1	0.958	95.8	90 - 110	
Zinc		1	0.979	97.9	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1924609

Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357128-06

Instrument ID: PE-ICP2 Run Time: 12:29 Method: 6010B

File ID: P2.022111.122917 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 21-FEB-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	10.1	101	90 - 110	
Arsenic		.4	0.385	96.4	90 - 110	
Barium		1	0.997	99.7	90 - 110	
Beryllium		.05	0.0487	97.4	90 - 110	
Cadmium		.05	0.0488	97.5	90 - 110	
Calcium		10	10.3	103	90 - 110	
Chromium		.5	0.494	98.9	90 - 110	
Cobalt		.2	0.195	97.3	90 - 110	
Copper		.5	0.502	100	90 - 110	
Iron		4	4.00	99.9	90 - 110	
Lead		.5	0.519	104	90 - 110	
Magnesium		10	9.91	99.1	90 - 110	
Manganese		.5	0.508	102	90 - 110	
Nickel		.5	0.498	99.6	90 - 110	
Potassium		50	49.4	98.7	90 - 110	
Silver		.4	0.391	97.7	90 - 110	
Sodium		50	48.2	96.4	90 - 110	
Vanadium		1	0.971	97.1	90 - 110	
Zinc		1	0.980	98.0	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1924609

Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-10

Instrument ID: ICP-THERMO2 Run Time: 11:08 Method: 6010B

File ID: T2.021811.110857 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356945 Cal ID: ICP-TH - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.97	mg/L	99.7	90 - 110		
Antimony		1.20	1.23	mg/L	102	90 - 110		
Barium		1.00	1.02	mg/L	102	90 - 110		
Beryllium		0.0500	0.0490	mg/L	98.0	90 - 110		
Cadmium		0.0500	0.0509	mg/L	102	90 - 110		
Calcium		10.0	10.1	mg/L	101	90 - 110		
Chromium		0.500	0.495	mg/L	98.9	90 - 110		
Cobalt		0.200	0.204	mg/L	102	90 - 110		
Copper		0.500	0.507	mg/L	101	90 - 110		
Iron		4.00	4.07	mg/L	102	90 - 110		
Magnesium		10.0	10.2	mg/L	102	90 - 110		
Manganese		0.500	0.510	mg/L	102	90 - 110		
Nickel		0.500	0.509	mg/L	102	90 - 110		
Potassium		50.0	51.0	mg/L	102	90 - 110		
Silver		0.400	0.395	mg/L	98.8	90 - 110		
Sodium		50.0	51.2	mg/L	102	90 - 110		
Vanadium		1.00	0.985	mg/L	98.5	90 - 110		
Zinc		1.00	1.01	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923863

Report generated 02/22/2011 14:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-12

Instrument ID: ICP-THERMO2 Run Time: 11:52 Method: 6010B

File ID: T2.021811.115217 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356945 Cal ID: ICP-TH - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.48	mg/L	94.8	90 - 110		
Antimony		1.20	1.15	mg/L	96.2	90 - 110		
Barium		1.00	0.950	mg/L	95.0	90 - 110		
Beryllium		0.0500	0.0467	mg/L	93.4	90 - 110		
Cadmium		0.0500	0.0480	mg/L	95.9	90 - 110		
Calcium		10.0	9.52	mg/L	95.2	90 - 110		
Chromium		0.500	0.470	mg/L	94.1	90 - 110		
Cobalt		0.200	0.192	mg/L	96.1	90 - 110		
Copper		0.500	0.477	mg/L	95.4	90 - 110		
Iron		4.00	3.85	mg/L	96.4	90 - 110		
Magnesium		10.0	9.55	mg/L	95.5	90 - 110		
Manganese		0.500	0.480	mg/L	95.9	90 - 110		
Nickel		0.500	0.480	mg/L	96.0	90 - 110		
Potassium		50.0	47.8	mg/L	95.5	90 - 110		
Silver		0.400	0.377	mg/L	94.2	90 - 110		
Sodium		50.0	47.9	mg/L	95.8	90 - 110		
Vanadium		1.00	0.942	mg/L	94.2	90 - 110		
Zinc		1.00	0.950	mg/L	95.0	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923863

Report generated 02/22/2011 14:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-15

Instrument ID: ICP-THERMO2 Run Time: 12:31 Method: 6010B

File ID: T2.021811.123131 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356945 Cal ID: ICP-TH - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.64	mg/L	96.4	90 - 110		
Antimony		1.20	1.23	mg/L	102	90 - 110		
Barium		1.00	1.00	mg/L	100	90 - 110		
Beryllium		0.0500	0.0480	mg/L	96.0	90 - 110		
Cadmium		0.0500	0.0504	mg/L	101	90 - 110		
Calcium		10.0	10.0	mg/L	100	90 - 110		
Chromium		0.500	0.480	mg/L	96.0	90 - 110		
Cobalt		0.200	0.202	mg/L	101	90 - 110		
Copper		0.500	0.505	mg/L	101	90 - 110		
Iron		4.00	4.02	mg/L	100	90 - 110		
Magnesium		10.0	9.97	mg/L	99.7	90 - 110		
Manganese		0.500	0.504	mg/L	101	90 - 110		
Nickel		0.500	0.508	mg/L	102	90 - 110		
Potassium		50.0	50.1	mg/L	100	90 - 110		
Silver		0.400	0.390	mg/L	97.6	90 - 110		
Sodium		50.0	50.3	mg/L	101	90 - 110		
Vanadium		1.00	0.970	mg/L	97.0	90 - 110		
Zinc		1.00	0.997	mg/L	99.7	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923863

Report generated 02/22/2011 14:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012-17

Instrument ID: ICP-THERMO2 Run Time: 13:08 Method: 6010B

File ID: T2.021811.130809 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356945 Cal ID: ICP-TH - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.0	mg/L	100	90 - 110		
Antimony		1.20	1.23	mg/L	102	90 - 110		
Barium		1.00	1.01	mg/L	101	90 - 110		
Beryllium		0.0500	0.0495	mg/L	99.0	90 - 110		
Cadmium		0.0500	0.0509	mg/L	102	90 - 110		
Calcium		10.0	10.2	mg/L	102	90 - 110		
Chromium		0.500	0.497	mg/L	99.4	90 - 110		
Cobalt		0.200	0.203	mg/L	102	90 - 110		
Copper		0.500	0.506	mg/L	101	90 - 110		
Iron		4.00	4.05	mg/L	101	90 - 110		
Magnesium		10.0	10.1	mg/L	101	90 - 110		
Manganese		0.500	0.507	mg/L	101	90 - 110		
Nickel		0.500	0.509	mg/L	102	90 - 110		
Potassium		50.0	50.6	mg/L	101	90 - 110		
Silver		0.400	0.401	mg/L	100	90 - 110		
Sodium		50.0	50.8	mg/L	102	90 - 110		
Vanadium		1.00	0.994	mg/L	99.4	90 - 110		
Zinc		1.00	1.01	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923863

Report generated 02/22/2011 14:23

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357093-11

Instrument ID: PE-ICP2 Run Time: 15:32 Method: 6010B

File ID: P2.021811.153239 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.1	mg/L	101	90 - 110		
Arsenic		0.400	0.400	mg/L	100	90 - 110		
Barium		1.00	0.982	mg/L	98.2	90 - 110		
Beryllium		0.0500	0.0511	mg/L	102	90 - 110		
Cadmium		0.0500	0.0492	mg/L	98.3	90 - 110		
Calcium		10.0	10.3	mg/L	103	90 - 110		
Chromium		0.500	0.489	mg/L	97.7	90 - 110		
Cobalt		0.200	0.192	mg/L	96.0	90 - 110		
Copper		0.500	0.504	mg/L	101	90 - 110		
Iron		4.00	3.89	mg/L	97.2	90 - 110		
Lead		0.500	0.498	mg/L	99.6	90 - 110		
Magnesium		10.0	9.84	mg/L	98.4	90 - 110		
Manganese		0.500	0.496	mg/L	99.1	90 - 110		
Nickel		0.500	0.489	mg/L	97.9	90 - 110		
Potassium		50.0	49.6	mg/L	99.2	90 - 110		
Silver		0.400	0.398	mg/L	99.6	90 - 110		
Sodium		50.0	49.7	mg/L	99.4	90 - 110		
Vanadium		1.00	0.969	mg/L	96.9	90 - 110		
Zinc		1.00	0.986	mg/L	98.6	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924612

Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357093-14

Instrument ID: PE-ICP2 Run Time: 16:17 Method: 6010B

File ID: P2.021811.161744 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.3	mg/L	103	90 - 110		
Arsenic		0.400	0.397	mg/L	99.3	90 - 110		
Barium		1.00	0.968	mg/L	96.8	90 - 110		
Beryllium		0.0500	0.0513	mg/L	103	90 - 110		
Cadmium		0.0500	0.0491	mg/L	98.2	90 - 110		
Calcium		10.0	10.3	mg/L	103	90 - 110		
Chromium		0.500	0.482	mg/L	96.3	90 - 110		
Cobalt		0.200	0.190	mg/L	95.0	90 - 110		
Copper		0.500	0.503	mg/L	101	90 - 110		
Iron		4.00	3.81	mg/L	95.2	90 - 110		
Lead		0.500	0.492	mg/L	98.3	90 - 110		
Magnesium		10.0	9.61	mg/L	96.1	90 - 110		
Manganese		0.500	0.489	mg/L	97.7	90 - 110		
Nickel		0.500	0.484	mg/L	96.8	90 - 110		
Potassium		50.0	50.7	mg/L	101	90 - 110		
Silver		0.400	0.399	mg/L	99.7	90 - 110		
Sodium		50.0	50.7	mg/L	101	90 - 110		
Vanadium		1.00	0.955	mg/L	95.5	90 - 110		
Zinc		1.00	0.974	mg/L	97.4	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924612

Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357093-16

Instrument ID: PE-ICP2 Run Time: 17:37 Method: 6010B

File ID: P2.021811.173746 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.3	mg/L	103	90 - 110		
Arsenic		0.400	0.411	mg/L	103	90 - 110		
Barium		1.00	0.964	mg/L	96.4	90 - 110		
Beryllium		0.0500	0.0521	mg/L	104	90 - 110		
Cadmium		0.0500	0.0499	mg/L	99.8	90 - 110		
Calcium		10.0	10.4	mg/L	104	90 - 110		
Chromium		0.500	0.478	mg/L	95.7	90 - 110		
Cobalt		0.200	0.188	mg/L	94.1	90 - 110		
Copper		0.500	0.512	mg/L	102	90 - 110		
Iron		4.00	3.72	mg/L	93.0	90 - 110		
Lead		0.500	0.487	mg/L	97.4	90 - 110		
Magnesium		10.0	9.39	mg/L	93.9	90 - 110		
Manganese		0.500	0.486	mg/L	97.2	90 - 110		
Nickel		0.500	0.478	mg/L	95.6	90 - 110		
Potassium		50.0	50.3	mg/L	101	90 - 110		
Silver		0.400	0.406	mg/L	102	90 - 110		
Sodium		50.0	50.6	mg/L	101	90 - 110		
Vanadium		1.00	0.948	mg/L	94.8	90 - 110		
Zinc		1.00	0.968	mg/L	96.8	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924612

Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357128-11

Instrument ID: PE-ICP2 Run Time: 13:00 Method: 6010B

File ID: P2.022111.130044 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 21-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.2	mg/L	102	90 - 110		
Arsenic		0.400	0.386	mg/L	96.5	90 - 110		
Barium		1.00	1.01	mg/L	101	90 - 110		
Beryllium		0.0500	0.0502	mg/L	100	90 - 110		
Cadmium		0.0500	0.0490	mg/L	98.0	90 - 110		
Calcium		10.0	10.0	mg/L	100	90 - 110		
Chromium		0.500	0.501	mg/L	100	90 - 110		
Cobalt		0.200	0.197	mg/L	98.3	90 - 110		
Copper		0.500	0.499	mg/L	99.9	90 - 110		
Iron		4.00	4.07	mg/L	102	90 - 110		
Lead		0.500	0.519	mg/L	104	90 - 110		
Magnesium		10.0	10.2	mg/L	102	90 - 110		
Manganese		0.500	0.507	mg/L	101	90 - 110		
Nickel		0.500	0.502	mg/L	100	90 - 110		
Potassium		50.0	50.0	mg/L	100	90 - 110		
Silver		0.400	0.395	mg/L	98.6	90 - 110		
Sodium		50.0	49.9	mg/L	99.8	90 - 110		
Vanadium		1.00	1.00	mg/L	100	90 - 110		
Zinc		1.00	1.01	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924612

Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357128-24

Instrument ID: PE-ICP2 Run Time: 18:23 Method: 6010B

File ID: P2.022111.182324 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 21-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.1	mg/L	101	90 - 110		
Arsenic		0.400	0.394	mg/L	98.5	90 - 110		
Barium		1.00	1.01	mg/L	101	90 - 110		
Beryllium		0.0500	0.0504	mg/L	101	90 - 110		
Cadmium		0.0500	0.0500	mg/L	100	90 - 110		
Calcium		10.0	10.2	mg/L	102	90 - 110		
Chromium		0.500	0.503	mg/L	101	90 - 110		
Cobalt		0.200	0.200	mg/L	99.8	90 - 110		
Copper		0.500	0.504	mg/L	101	90 - 110		
Iron		4.00	3.98	mg/L	99.5	90 - 110		
Lead		0.500	0.525	mg/L	105	90 - 110		
Magnesium		10.0	9.89	mg/L	98.9	90 - 110		
Manganese		0.500	0.509	mg/L	102	90 - 110		
Nickel		0.500	0.503	mg/L	101	90 - 110		
Potassium		50.0	49.9	mg/L	99.9	90 - 110		
Silver		0.400	0.396	mg/L	99.1	90 - 110		
Sodium		50.0	49.4	mg/L	98.9	90 - 110		
Vanadium		1.00	1.00	mg/L	100	90 - 110		
Zinc		1.00	1.01	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924612

Report generated 02/22/2011 09:35

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/21/2011 Sample ID: WG357128-27

Instrument ID: PE-ICP2 Run Time: 19:30 Method: 6010B

File ID: P2.022111.193004 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356956 Cal ID: PE-ICP - 21-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.1	mg/L	101	90 - 110		
Arsenic		0.400	0.392	mg/L	98.1	90 - 110		
Barium		1.00	1.03	mg/L	103	90 - 110		
Beryllium		0.0500	0.0515	mg/L	103	90 - 110		
Cadmium		0.0500	0.0501	mg/L	100	90 - 110		
Calcium		10.0	10.3	mg/L	103	90 - 110		
Chromium		0.500	0.509	mg/L	102	90 - 110		
Cobalt		0.200	0.200	mg/L	100	90 - 110		
Copper		0.500	0.513	mg/L	103	90 - 110		
Iron		4.00	3.94	mg/L	98.4	90 - 110		
Lead		0.500	0.524	mg/L	105	90 - 110		
Magnesium		10.0	9.77	mg/L	97.7	90 - 110		
Manganese		0.500	0.516	mg/L	103	90 - 110		
Nickel		0.500	0.511	mg/L	102	90 - 110		
Potassium		50.0	49.8	mg/L	99.6	90 - 110		
Silver		0.400	0.404	mg/L	101	90 - 110		
Sodium		50.0	49.3	mg/L	98.7	90 - 110		
Vanadium		1.00	1.02	mg/L	102	90 - 110		
Zinc		1.00	1.03	mg/L	103	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924612

Report generated 02/22/2011 09:35

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020447 **Workgroup (AAB#):** WG356945
Instrument ID: ICP-THERMO2 **Method:** 6010B
Sol. A : WG357012-08 **File ID:** T2.021811.110135 **Units:** mg/L
Sol. AB : WG357012-09 **File ID:** T2.021811.110519 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	220	88.0	250	216	86.4	
Antimony	NS	-0.00185	NS	0.500	0.497	99.4	
Barium	NS	0.00150	NS	0.250	0.249	99.6	
Beryllium	NS	0.0000200	NS	0.250	0.246	98.4	
Cadmium	NS	0.00179	NS	0.500	0.490	98.0	
Calcium	250	247	98.8	250	247	98.8	
Chromium	NS	-0.00110	NS	0.250	0.223	89.2	
Cobalt	NS	0.000100	NS	0.250	0.243	97.2	
Copper	NS	0.00659	NS	0.250	0.247	98.8	
Iron	100	97.2	97.2	100	97.1	97.1	
Magnesium	250	245	98.0	250	244	97.6	
Manganese	NS	-0.00100	NS	0.250	0.242	96.8	
Nickel	NS	-0.0000800	NS	0.500	0.482	96.4	
Potassium	NS	0.139	NS	5.00	5.08	102	
Silver	NS	0.000640	NS	0.500	0.461	92.2	
Sodium	NS	0.0119	NS	5.00	5.10	102	
Vanadium	NS	-0.00216	NS	0.250	0.230	92.0	
Zinc	NS	-0.00624	NS	0.500	0.473	94.6	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020447 **Workgroup (AAB#):** WG356956
Instrument ID: PE-ICP2 **Method:** 6010B
Sol. A : WG357093-09 **File ID:** P2.021811.152119 **Units:** mg/L
Sol. AB : WG357093-10 **File ID:** P2.021811.152659 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	251	100	250	250	100	
Arsenic	NS	-0.0000600	NS	0.250	0.255	102	
Barium	NS	-0.0000800	NS	0.250	0.249	99.6	
Beryllium	NS	-0.0000300	NS	0.250	0.260	104	
Cadmium	NS	0.000130	NS	0.500	0.455	91.0	
Calcium	250	284	114	250	283	113	
Chromium	NS	-0.00116	NS	0.250	0.247	98.8	
Cobalt	NS	-0.00136	NS	0.250	0.231	92.4	
Copper	NS	-0.000100	NS	0.250	0.257	103	
Iron	100	97.1	97.1	100	94.8	94.8	
Lead	NS	0.00212	NS	0.500	0.495	99.0	
Magnesium	250	249	99.6	250	244	97.6	
Manganese	NS	0.000170	NS	0.250	0.252	101	
Nickel	NS	-0.00221	NS	0.500	0.467	93.4	
Potassium	NS	0.0553	NS	5.00	5.13	103	
Silver	NS	-0.000820	NS	0.500	0.514	103	
Sodium	NS	0.0349	NS	5.00	5.00	100	
Vanadium	NS	0.00223	NS	0.250	0.247	98.8	
Zinc	NS	-0.000990	NS	0.500	0.469	93.8	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1924611
Report generated 02/22/2011 09:35

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020447 **Workgroup (AAB#):** WG356956
Instrument ID: PE-ICP2 **Method:** 6010B
Sol. A : WG357128-09 **File ID:** P2.022111.124918 **Units:** mg/L
Sol. AB : WG357128-10 **File ID:** P2.022111.125504 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	245	98.0	250	230	92.0	
Arsenic	NS	-0.00326	NS	0.250	0.247	98.8	
Barium	NS	-0.000690	NS	0.250	0.246	98.4	
Beryllium	NS	-0.0000700	NS	0.250	0.253	101	
Cadmium	NS	-0.000200	NS	0.500	0.458	91.6	
Calcium	250	280	112	250	270	108	
Chromium	NS	-0.000380	NS	0.250	0.243	97.2	
Cobalt	NS	-0.00122	NS	0.250	0.230	92.0	
Copper	NS	0.000900	NS	0.250	0.254	102	
Iron	100	98.0	98.0	100	94.7	94.7	
Lead	NS	-0.000750	NS	0.500	0.500	100	
Magnesium	250	249	99.6	250	241	96.4	
Manganese	NS	0.000250	NS	0.250	0.245	98.0	
Nickel	NS	-0.00170	NS	0.500	0.462	92.4	
Potassium	NS	0.0244	NS	5.00	5.05	101	
Silver	NS	-0.000830	NS	0.500	0.499	99.8	
Sodium	NS	0.0240	NS	5.00	4.93	98.6	
Vanadium	NS	0.00214	NS	0.250	0.246	98.4	
Zinc	NS	0.00404	NS	0.500	0.458	91.6	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

LRC SAMPLE

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357012
Instrument ID: ICP-THERMO2 Run Time: 10:50 Prep Method: 3051A
Analyst: JYH Method: 6010B
Workgroup (AAB#): WG356945 Matrix: Solid Units: mg/kg
Cal ID: 18-FEB-11 - 18-FEB-2011 10:50

Analytes	Expected	Found	% Rec	Limits	Q
Aluminum, Total	800	794	99.3	90 - 110	
Iron, Total	1000	993	99.3	90 - 110	

KEMRON FORMS - Modified 08/28/2006
Version 1.5 PDF File ID: 1925034
Report generated 02/22/2011 14:42

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	AL	AS	B	BA	BE
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0.0000210	0	0	0	0
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0	0.00190	0	-0.000140	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0	0	0	0	0
COPPER	224.70	0	0	0	0	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000335	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	-0.000750	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	-0.0000300	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	-0.0000120	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0
ZINC	206.20	0.0000420	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1923858
Report generated: 02/22/2011 14:23

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	CA	CO	CR	CU	FE
ALUMINUM	308.20	0	-0.000820	0	0	0
ANTIMONY	206.80	0	0	0.00950	0	0.0000560
ARSENIC	189.00	0	0	0.000490	0	-0.0000120
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0.00343	0	0	-0.000619
CADMIUM	228.80	0	-0.00200	0	0	-0.00000800
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000530
COBALT	228.60	0	0	0.000108	0	0
COPPER	224.70	0	0.0000770	0	0	0.000196
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	-0.0000930	-0.000172	0.000809	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	-0.0000920	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0.000100	0	0	0.0000320
PHOSPHORUS	214.90	0	0	0	0.00200	0.00120
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0.0000570	0	0	0	0
THALLIUM	190.80	0	0.00397	0.000276	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	-0.00000200
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	-0.0000300

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Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	LI	MG	MN	MO	NA
ALUMINUM	308.20	0	0	0	0.0153	0
ANTIMONY	206.80	0	0	0	0.000670	0
ARSENIC	189.00	0	0	0	0.00109	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	-0.00169	0
CADMIUM	228.80	0	0	0	0.0000220	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0.000160	0	0
COBALT	228.60	0	0	0	-0.000983	0
COPPER	224.70	0	0	0	0.00274	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	0	0	-0.00183	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	-0.00190	-0.0110	0
MANGANESE	257.60	0	0.00000900	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0.00800	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0.000156	0
SILICON	212.40	0	0	0	0.0187	0
SILVER	328.00	0	0	0	-0.0000440	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	-0.000153	0
VANADIUM	292.40	0	0	0	-0.00778	0
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
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Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	NI	SB	SN	SR	TI
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0	0	-0.00840	0	-0.000990
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	-0.000128	0	0	0	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000550
COBALT	228.60	0.000175	0	0	0	0.00188
COPPER	224.70	-0.0120	0	0	0	0.000269
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000110	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	-0.00290
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	-0.00620
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	-0.00170
TIN	189.90	0	0	0	0	-0.00220
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0.000824
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

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Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	V	ZN	ZR
ALUMINUM	308.20	0.00300	0	0
ANTIMONY	206.80	-0.00438	0	0
ARSENIC	189.00	0.000107	0	0
BARIUM	455.40	0	0	0
BERYLLIUM	313.00	0	0	0
BORON	249.70	0	0	0
CADMIUM	228.80	0.0000820	0	0
CALCIUM	422.70	0	0	0
CHROMIUM	267.70	0	0	
COBALT	228.60	0.0000200	0	0
COPPER	224.70	0	0	
IRON	261.20	0	0	0
LEAD	220.30	-0.000126	0	0
LITHIUM	670.80	0	0	0
MAGNESIUM	279.10	0	0	0
MANGANESE	257.60	0	0	0
MOLYBDENUM	202.03	-0.000110	0	0
NICKEL	231.60	0	0	0
PHOSPHORUS	214.90	-0.00500	0	0.00200
POTASSIUM	766.40	0	0	0
SELENIUM	196.00	0	0	0
SILICON	212.40	0	0	0
SILVER	328.00	-0.00617	0	0
SODIUM	589.50	0	0	0
STRONTIUM	407.80	0	0	0
THALLIUM	190.80	-0.0282	0	0
TIN	189.90	0	0	0
TITANIUM	337.30	0	0	0
VANADIUM	292.40	0	0	
ZINC	206.20	0	0	0
ZIRCONIUM	339.20	0	0	0

CORR_FACTORS - Modified 03/05/2008
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Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	AG	AL	AS	B	BA
ALUMINUM	396.15	0	0	0.206	0	0
ANTIMONY	206.84	0	0	-0.740	0	0
ARSENIC	188.98	0	0.0893	0	0	0
BARIUM	233.53	0	0.00932	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	1.12	0	0	0
CADMIUM	228.80	0	0	6.68	0	0
CALCIUM	227.55	0	0.195	10.0	0	0
CHROMIUM	267.72	0	0.0250	0	0	0
COBALT	228.62	0	0	0	0	0.337
COPPER	327.39	0	0	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	0	-0.0210	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-0.185	0	-0.231	-0.0949	-0.230
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0.111	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0.200	0	0.0400
ZINC	206.20	0	0	0	0	0

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Report generated: 02/22/2011 09:35

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	BE	CA	CD	CO	CR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	0	6.33
ARSENIC	188.98	0	0.0200	-0.0875	0	-5.90
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	-0.0733
BORON	249.68	0	0	24.1	5.90	1.50
CADMIUM	228.80	0	0	0	-10.7	0
CALCIUM	227.55	0	0	0	300	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	-0.244
COPPER	327.39	0	0	0	0.380	-0.0400
IRON	239.56	0	0	0	1.91	0
LEAD	220.35	0	-0.0480	0	0.116	-0.0700
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-1.04	0	-0.755	-0.0418	-0.110
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	-0.566	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	-0.250	0	-1.52	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0.0900	0	3.48	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	-0.0100	0	0	0.297
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	0	0	0	0	-3.64

CORR_FACTORS - Modified 03/05/2008
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Report generated: 02/22/2011 09:35

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	CU	FE	K	LI	MG
ALUMINUM	396.15	0	-0.0800	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	-0.139	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0.195	0	0	0
BORON	249.68	0	-4.66	0	0	0
CADMIUM	228.80	0	0.00130	0	0	0
CALCIUM	227.55	-2.00	-5.00	0	0	0.104
CHROMIUM	267.72	0	-0.000800	0	0	0
COBALT	228.62	0	0.0262	0	0	0
COPPER	327.39	0	-0.115	0	0.154	0
IRON	239.56	0	0	0	0	0.0276
LEAD	220.35	0.740	0.0440	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0.540	0	0	0
MANGANESE	257.61	-0.0457	-0.0453	-0.0181	-0.794	0.0147
MOLYBDENUM	202.03	0	-0.0494	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	-0.369	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0.0717	0.0498	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0.120	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.134	0	0	0
ZINC	206.20	-0.200	0.0230	0	0	0

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Report generated: 02/22/2011 09:35

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	MN	MO	NA	NI	PB
ALUMINUM	396.15	0	13.5	0	0	0
ANTIMONY	206.84	0	-7.69	0	0	0
ARSENIC	188.98	0	6.00	0	0	0
BARIUM	233.53	0	-0.548	0	0	0
BERYLLIUM	234.86	-0.131	-1.50	0	-0.00974	0
BORON	249.68	0	-2.20	0	0	0
CADMIUM	228.80	0	-0.00900	0	-0.398	0
CALCIUM	227.55	0	-8.00	0	-900	0
CHROMIUM	267.72	0.434	-0.00100	0	0	0
COBALT	228.62	0	-0.125	0	0.129	0
COPPER	327.39	0	-0.0774	0	0.150	0.257
IRON	239.56	0.480	0	0	0	0.407
LEAD	220.35	0.100	-5.00	0	0.100	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-5.00	0	0	0.0252
MANGANESE	257.61	0	-0.0482	-0.00916	-0.0340	-0.0413
MOLYBDENUM	202.03	-0.209	0	0	0.120	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	1.00	0	0
SELENIUM	196.03	0.451	0.300	0	0.0940	0
SILICON	251.61	0	15.0	0	0	0
SILVER	328.07	0.130	0.100	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	-1.50	1.20	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.578	0	0	0
ZINC	206.20	0	0.180	0	-0.200	-0.100

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Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	SB	SE	SI	SN	SR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	0	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	0	0	0	0
CADMIUM	228.80	0	0	0	0	0
CALCIUM	227.55	0	0	2.79	0	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	0
COPPER	327.39	0	0.148	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	-0.0100	0	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-0.0924	0	0	0
MANGANESE	257.61	-0.0505	-0.0281	-0.185	-0.0445	-0.625
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	-0.0500	-0.0100	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0.200
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	-0.300	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
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Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020447 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	TI	TL	V	ZN
ALUMINUM	396.15	0	0	0	0
ANTIMONY	206.84	0	0	0.000100	0
ARSENIC	188.98	0	0	0.0930	0
BARIUM	233.53	0	0	-2.29	0
BERYLLIUM	234.86	0	0	0	0
BORON	249.68	0	0	0	0
CADMIUM	228.80	0	0	0.0800	0
CALCIUM	227.55	0	0	60.0	0
CHROMIUM	267.72	0	0	-0.567	-0.0400
COBALT	228.62	2.21	0	0	0
COPPER	327.39	-1.05	0	-0.700	-0.0613
IRON	239.56	0	0	0	0
LEAD	220.35	0	0	0.0560	0
LITHIUM	670.78	0	0	0	0
MAGNESIUM	279.08	0	0	0	0
MANGANESE	257.61	-0.00931	-0.0414	-0.0601	-0.0552
MOLYBDENUM	202.03	0	0	-0.288	0
NICKEL	231.60	0	0.617	0	0
POTASSIUM	766.49	0	0	0	0
SELENIUM	196.03	-0.220	0	-0.126	0
SILICON	251.61	0	0	0	0
SILVER	328.07	0	0	-1.67	0
SODIUM	589.59	0	0	0	0
STRONTIUM	407.77	0	0	0	0
THALLIUM	190.80	-12.0	0.617	-1.41	0
TIN	189.93	0	0	0	0
TITANIUM	334.94	0	0	0	0
VANADIUM	290.88	0	0	0	0
ZINC	206.20	0	0	-0.100	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1924607
Report generated: 02/22/2011 09:35

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11020447 **Date:** 12/13/2010
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	810.0
Antimony	10.00	90.0
Arsenic	10.00	90.0
Barium	10.00	90.0
Beryllium	15.00	4.5
Boron	10.00	90.0
Cadmium	10.00	16.2
Calcium	10.00	900.0
Chromium	10.00	81.0
Cobalt	10.00	90.0
Copper	10.00	180.0
Iron	5.00	900.0
Lead	10.00	180.0
Lithium	10.00	90.0
Magnesium	15.00	900.0
Manganese	15.00	180.0
Molybdenum	10.00	9.0
Nickel	10.00	90.0
Phosphorus	10.00	900.0
Potassium	10.00	315.0
Selenium	10.00	90.0
Silicon	10.00	90.0
Silver	5.00	9.0
Sodium	10.00	315.0
Strontium	10.00	4.5
Thallium	10.00	9.0
Tin	10.00	90.0
Titanium	15.00	90.0
Vanadium	10.00	90.0
Zinc	10.00	45.0
Zirconium	10.00	45.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1923857
Report generated: 02/22/2011 14:23

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11020447 **Date:** 01/12/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	450.0
Antimony	10.00	45.0
Arsenic	10.00	9.0
Barium	10.00	9.0
Beryllium	10.00	4.5
Boron	10.00	45.0
Cadmium	10.00	9.0
Calcium	10.00	450.0
Chromium	10.00	45.0
Cobalt	10.00	45.0
Copper	10.00	45.0
Iron	10.00	450.0
Lead	10.00	90.0
Lithium	10.00	0.9
Magnesium	10.00	450.0
Manganese	10.00	27.0
Molybdenum	10.00	45.0
Nickel	10.00	45.0
Potassium	10.00	72.0
Selenium	10.00	45.0
Silicon	10.00	36.0
Silver	10.00	9.0
Sodium	10.00	180.0
Strontium	10.00	4.5
Thallium	10.00	45.0
Tin	10.00	45.0
Titanium	10.00	45.0
Vanadium	10.00	45.0
Zinc	10.00	45.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1924606
Report generated: 02/22/2011 09:35

2.2.1.3 Raw Data

Sample Name: S0 Acquired: 2/18/2011 10:36:10 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00034**	**.00907**	**-.00009**	**.00029**	**.00313**	**-.00114**	**-.00129**
Stddev	.00014	.00011	.00002	.00005	.00020	.00006	.00016
%RSD	40.406	1.1933	17.381	17.611	6.3470	5.0865	12.733
#1	.00039	.00906	-.00008	.00031	.00315	-.00116	-.00114
#2	.00019	.00918	-.00008	.00024	.00331	-.00108	-.00146
#3	.00045	.00896	-.00011	.00033	.00292	-.00119	-.00127

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00005**	**-.00001**	**.00075**	**.00018**	**.00002**	**.00239**	**-.00070**
Stddev	.00001	.00002	.00006	.00005	.00006	.00007	.00043
%RSD	26.922	322.77	7.9799	25.870	395.06	3.0940	61.603
#1	.00004	.00001	.00079	.00013	.00004	.00235	-.00079
#2	.00006	.00000	.00077	.00019	.00006	.00234	-.00107
#3	.00004	-.00002	.00068	.00021	-.00005	.00248	-.00023

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00000**	**.00006**	**.00001**	**-.00183**	**-.00027**	**.00014**	**-.00026**
Stddev	.00008	.00004	.00001	.00023	.00001	.00000	.00002
%RSD	1931.7	71.057	73.702	12.522	5.3502	2.2420	6.8817
#1	-.00004	.00003	.00000	-.00177	-.00028	.00013	-.00028
#2	.00009	.00011	.00002	-.00209	-.00029	.00014	-.00024
#3	-.00004	.00005	.00001	-.00164	-.00026	.00013	-.00026

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00480**	**.00002**	**.00009**	**.00005**	**-.00011**	**.00042**	**.00003**
Stddev	.00024	.00001	.00001	.00001	.00001	.00001	.00001
%RSD	4.9269	70.865	7.0300	15.581	9.4276	2.9677	41.665
#1	-.00465	.00002	.00009	.00004	-.00011	.00041	.00002
#2	-.00508	.00002	.00008	.00005	-.00010	.00042	.00002
#3	-.00468	.00000	.00009	.00005	-.00012	.00043	.00004

Approved: February 21, 2011

Sample Name: S0 Acquired: 2/18/2011 10:36:10 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00073**	**-.00028**	**-.00007**	**.00000**	**-.00009**	**-.00203**
Stddev	.00010	.00004	.00002	.0000	.00001	.00012
%RSD	13.408	15.464	22.206	5094.0	15.398	6.0658
#1	.00065	-.00032	-.00008	-.00004	-.00008	-.00211
#2	.00084	-.00029	-.00006	.00004	-.00010	-.00208
#3	.00070	-.00024	-.00006	.00000	-.00007	-.00189

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**71838.**	**50990.**
Stddev	360.	899.
%RSD	.50173	1.7629
#1	71481.	51305.
#2	72202.	49976.
#3	71832.	51689.

Approved: February 21, 2011

Sample Name: S1 Acquired: 2/18/2011 10:39:51 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00126**	**.01429**	**.00704**	**.00032**	**-.00064**	**.00012**	**.00030**
Stddev	.00007	.00030	.00014	.00006	.00004	.00001	.00002
%RSD	5.7237	2.1055	1.9368	18.447	5.8032	6.8028	6.2705
#1	.00132	.01399	.00707	.00030	-.00066	.00012	.00031
#2	.00118	.01459	.00715	.00038	-.00066	.00013	.00028
#3	.00127	.01430	.00688	.00027	-.00060	.00011	.00030

Elem	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00168**	**.00036**	**.00031**	**.00420**	**.00003**	**.00030**	**.00046**
Stddev	.00005	.00002	.00004	.00026	.00012	.00004	.00002
%RSD	3.1563	6.1251	12.393	6.1038	428.71	14.589	5.2355
#1	.00168	.00038	.00027	.00406	-.00011	.00026	.00046
#2	.00163	.00033	.00034	.00450	.00008	.00035	.00048
#3	.00174	.00036	.00031	.00405	.00012	.00029	.00043

Elem	Mo2020	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00038**	**.00441**	**-.00013**	**.00014**	**-.00014**	**-.00480**	**.00002**
Stddev	.00001	.00014	.00003	.00001	.00001	.00013	.00001
%RSD	2.6958	3.2181	22.149	10.391	6.7379	2.6332	29.976
#1	.00039	.00455	-.00010	.00012	-.00015	-.00494	.00002
#2	.00037	.00441	-.00014	.00015	-.00013	-.00477	.00001
#3	.00037	.00427	-.00015	.00014	-.00014	-.00470	.00003

Elem	S_1820	Sb2068	Si2124	Sn1899	Sr4077	Ti3372	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00007**	**.00011**	**.00041**	**.00031**	**.00778**	**.00016**	**.00271**
Stddev	.00001	.00002	.00002	.00001	.00005	.00004	.00012
%RSD	13.307	16.299	3.7710	1.8837	.70388	27.777	4.6105
#1	.00008	.00013	.00040	.00031	.00772	.00019	.00257
#2	.00007	.00009	.00041	.00030	.00778	.00017	.00274
#3	.00007	.00010	.00043	.00030	.00783	.00011	.00281

Approved: February 21, 2011

Sample Name: S1 Acquired: 2/18/2011 10:39:51 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3391
Units	Cts/S	Cts/S
Avg	**.00148**	**-.00197**
Stddev	.00001	.00011
%RSD	.57678	5.3546
#1	.00149	-.00207
#2	.00148	-.00186
#3	.00148	-.00198

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75569.**	**50781.**
Stddev	337.	355.
%RSD	.44586	.69845
#1	75944.	51023.
#2	75473.	50374.
#3	75291.	50946.

Approved: February 21, 2011

Sample Name: S2 Acquired: 2/18/2011 10:43:33 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00196**	**.01848**	**-.00003**	**.00089**	**.01054**	**.00165**	**-.00004**
Stddev	.00015	.00012	.00001	.00006	.00009	.00005	.00013
%RSD	7.8298	.65444	47.836	7.1787	.85969	2.8198	360.86
#1	.00213	.01861	-.00003	.00084	.01064	.00160	-.00003
#2	.00188	.01848	-.00004	.00088	.01052	.00168	-.00018
#3	.00186	.01837	-.00001	.00096	.01046	.00168	.00009

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00020**	**.00060**	**.00257**	**.00060**	**.00061**	**.00634**	**.00121**
Stddev	.00003	.00003	.00009	.00000	.00003	.00020	.00035
%RSD	13.791	4.6177	3.6093	.32096	4.5196	3.2244	28.964
#1	.00018	.00063	.00248	.00060	.00062	.00643	.00139
#2	.00019	.00060	.00258	.00060	.00063	.00611	.00080
#3	.00023	.00058	.00266	.00060	.00058	.00649	.00142

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00051**	**.00092**	**.00075**	**.01142**	**.00000**	**.00014**	**-.00010**
Stddev	.00002	.00006	.00001	.00015	.00001	.00001	.00001
%RSD	4.6733	6.3816	1.2380	1.2782	362.52	9.3980	5.9055
#1	.00049	.00088	.00076	.01136	.00001	.00012	-.00011
#2	.00054	.00099	.00076	.01158	.00001	.00014	-.00010
#3	.00052	.00089	.00074	.01131	-.00001	.00015	-.00010

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00495**	**.00005**	**.00008**	**.00020**	**-.00007**	**.00043**	**.00057**
Stddev	.00023	.00001	.00001	.00001	.00001	.00001	.00001
%RSD	4.5882	26.445	18.102	6.4455	16.336	2.3544	1.5198
#1	-.00475	.00005	.00008	.00021	-.00006	.00042	.00058
#2	-.00491	.00003	.00007	.00019	-.00007	.00044	.00056
#3	-.00520	.00006	.00010	.00020	-.00008	.00043	.00058

Approved: February 21, 2011

Sample Name: S2 Acquired: 2/18/2011 10:43:33 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01480**	**.00067**	**.00003**	**.00510**	**.00306**	**-.00189**
Stddev	.00014	.00015	.00000	.00013	.00001	.00004
%RSD	.92529	23.033	11.783	2.5171	.31573	1.8977
#1	.01464	.00049	.00003	.00496	.00305	-.00193
#2	.01488	.00075	.00003	.00513	.00307	-.00186
#3	.01488	.00076	.00002	.00521	.00307	-.00190

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73538.**	**51715.**
Stddev	949.	178.
%RSD	1.2901	.34419
#1	74533.	51894.
#2	73437.	51714.
#3	72643.	51538.

Approved: February 21, 2011

Sample Name: S3 Acquired: 2/18/2011 10:47:18 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07256**	**.45923**	**.00324**	**.03296**	**.36934**	**.14002**	**.06576**
Stddev	.00230	.01295	.00001	.00093	.00060	.00399	.00036
%RSD	3.1698	2.8205	.27066	2.8102	.16193	2.8530	.55171
#1	.07293	.46131	.00323	.03301	.36882	.14072	.06537
#2	.07009	.44536	.00324	.03202	.36921	.13573	.06609
#3	.07464	.47101	.00325	.03387	.37000	.14363	.06582

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00861**	**.02939**	**.09217**	**.02001**	**.03003**	**.20138**	**.10239**
Stddev	.00002	.00009	.00256	.00008	.00011	.00052	.00039
%RSD	.21501	.29009	2.7769	.41326	.35168	.25964	.38219
#1	.00863	.02948	.09250	.02008	.02995	.20085	.10201
#2	.00860	.02931	.08946	.01992	.03000	.20139	.10238
#3	.00860	.02938	.09454	.02003	.03015	.20190	.10279

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02391**	**.04195**	**.03753**	**.66665**	**.01394**	**.00015**	**.00762**
Stddev	.00012	.00010	.00008	.00155	.00005	.00001	.00004
%RSD	.50870	.24551	.20262	.23260	.33323	8.5159	.56231
#1	.02377	.04189	.03760	.66595	.01398	.00017	.00759
#2	.02396	.04189	.03745	.66557	.01388	.00015	.00767
#3	.02399	.04207	.03752	.66842	.01395	.00015	.00760

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00486**	**.00161**	**.00005**	**.00928**	**.00169**	**.00088**	**.02734**
Stddev	.00025	.00001	.00000	.00003	.00002	.00002	.00005
%RSD	5.1406	.48587	7.4264	.27412	1.0926	2.1872	.16938
#1	-.00491	.00162	.00005	.00930	.00169	.00089	.02739
#2	-.00458	.00160	.00004	.00925	.00171	.00086	.02733
#3	-.00508	.00161	.00004	.00929	.00168	.00089	.02730

Approved: February 21, 2011

Sample Name: S3 Acquired: 2/18/2011 10:47:18 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.71346**	**.05051**	**.00415**	**.26347**	**.15892**	**-.00134**
Stddev	.00168	.00025	.00002	.00750	.00033	.00008
%RSD	.23556	.49681	.45740	2.8474	.20618	6.0468
#1	.71152	.05022	.00417	.26476	.15929	-.00126
#2	.71457	.05064	.00414	.25541	.15882	-.00135
#3	.71427	.05067	.00414	.27025	.15866	-.00142

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**69235.**	**50214.**
Stddev	534.	1034.
%RSD	.77127	2.0595
#1	68644.	49806.
#2	69378.	51390.
#3	69683.	49447.

Approved: February 21, 2011

Sample Name: S4 Acquired: 2/18/2011 10:50:49 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.14213**	**.88985**	**.00639**	**.06505**	**.71344**	**.28109**	**.12847**
Stddev	.00069	.00656	.00003	.00030	.00209	.00205	.00059
%RSD	.48507	.73760	.44428	.45915	.29267	.72990	.45561
#1	.14259	.89469	.00636	.06512	.71113	.28129	.12787
#2	.14247	.89248	.00641	.06531	.71400	.28303	.12848
#3	.14134	.88238	.00640	.06472	.71519	.27894	.12904

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01665**	**.05655**	**.18106**	**.03831**	**.05792**	**.38789**	**.19808**
Stddev	.00003	.00008	.00122	.00002	.00020	.00140	.00043
%RSD	.16459	.14284	.67305	.06344	.33952	.36027	.21600
#1	.01662	.05646	.18148	.03831	.05771	.38631	.19759
#2	.01666	.05658	.18202	.03828	.05796	.38837	.19827
#3	.01668	.05662	.17969	.03833	.05809	.38898	.19838

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04603**	**.08085**	**.07239**	**1.2863**	**.02701**	**.00018**	**.01493**
Stddev	.00020	.00033	.00017	.0041	.00004	.00001	.00003
%RSD	.43932	.41102	.23916	.31717	.16057	5.3516	.20253
#1	.04581	.08053	.07220	1.2817	.02696	.00017	.01491
#2	.04610	.08083	.07255	1.2877	.02704	.00017	.01493
#3	.04620	.08120	.07242	1.2895	.02702	.00019	.01496

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00504**	**.00307**	**.00002**	**.01793**	**.00341**	**.00128**	**.05245**
Stddev	.00003	.00001	.00001	.00002	.00002	.00002	.00012
%RSD	.57000	.16359	39.713	.11122	.60970	1.2857	.22651
#1	-.00503	.00307	.00003	.01791	.00340	.00127	.05231
#2	-.00501	.00307	.00002	.01794	.00343	.00128	.05253
#3	-.00507	.00308	.00002	.01795	.00339	.00130	.05251

Approved: February 21, 2011

Sample Name: S4 Acquired: 2/18/2011 10:50:49 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1259) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3776**	**.09880**	**.00792**	**.51995**	**.30771**	**-.00091**
Stddev	.0048	.00048	.00001	.00314	.00078	.00018
%RSD	.34688	.48533	.17301	.60393	.25310	19.311
#1	1.3729	.09825	.00791	.52091	.30681	-.00108
#2	1.3775	.09902	.00791	.52249	.30813	-.00092
#3	1.3825	.09913	.00793	.51644	.30819	-.00073

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**69635.**	**49696.**
Stddev	351.	91.
%RSD	.50365	.18317
#1	69976.	49732.
#2	69654.	49593.
#3	69276.	49764.

Approved: February 21, 2011

Sample Name: ICV Acquired: 2/18/2011 10:54:22 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38103**	**9.6048**	F **.37873**	**.49812**	**.95816**	**.04884**	**9.5087**
Stddev	.00083	.0540	.00110	.00201	.00082	.00044	.0122
%RSD	.21698	.56223	.28947	.40363	.08550	.90284	.12784
#1	.38025	9.5508	.37797	.49665	.95902	.04875	9.5163
#2	.38093	9.6049	.37823	.49729	.95739	.04846	9.4947
#3	.38190	9.6588	.37998	.50041	.95805	.04932	9.5152
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.40000				
Range			-5.0000%				

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04816**	**.19349**	**.48578**	**.47754**	**3.8154**	**48.293**	**.96949**
Stddev	.00019	.00038	.00475	.00024	.0071	.104	.00292
%RSD	.40375	.19802	.97826	.05054	.18650	.21598	.30121
#1	.04838	.19393	.48599	.47740	3.8229	48.389	.97260
#2	.04805	.19325	.48093	.47782	3.8087	48.182	.96680
#3	.04805	.19328	.49043	.47740	3.8146	48.308	.96908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5755**	F **.47457**	**.97367**	F **46.534**	**.47877**	F **7.0643**	**.48058**
Stddev	.0549	.00191	.00043	.010	.00124	6.1469	.00045
%RSD	.57386	.40227	.04380	.02143	.25813	87.014	.09355
#1	9.5794	.47532	.97412	46.536	.47883	1.7094	.48027
#2	9.5187	.47240	.97364	46.543	.47751	5.7070	.48038
#3	9.6284	.47599	.97327	46.523	.47998	13.776	.48110
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value		.50000		50.000		10.000	
Range		-5.0000%		-5.0000%		-5.0000%	

Approved: February 21, 2011

Sample Name: ICV Acquired: 2/18/2011 10:54:22 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.711**	**9.7196**	F **7.4595**	F **1.1206**	F **.37857**	F **555.35**	F **.93920**
Stddev	14.316	.0603	1.5698	.0037	.00508	2.65	.00141
%RSD	112.63	.62023	21.044	.33346	1.3423	.47645	.14960
#1	19.593	9.6931	5.9624	1.1199	.37307	553.03	.93953
#2	22.287	9.7885	7.3230	1.1173	.37956	554.79	.93766
#3	-3.7469	9.6770	9.0931	1.1246	.38309	558.23	.94041
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	10.000		10.000	1.2000	.40000	5.0000	1.0000
Range	5.0000%		-5.0000%	-5.0000%	-5.0000%	5.0000%	-5.0000%

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95089**	F **.94089**	**.48429**	**.98173**	**.97044**	F **1.6180**
Stddev	.00296	.00237	.00240	.00587	.00104	.0909
%RSD	.31106	.25202	.49619	.59799	.10718	5.6189
#1	.95299	.93966	.48360	.97817	.97163	1.5967
#2	.94751	.93938	.48231	.97852	.96993	1.7177
#3	.95217	.94362	.48696	.98851	.96974	1.5397
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		1.0000				1.0000
Range		-5.0000%				5.0000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**71827.**	**50679.**
Stddev	1349.	620.
%RSD	1.8788	1.2242
#1	70830.	51317.
#2	71287.	50644.
#3	73362.	50077.

Approved: February 21, 2011

Sample Name: ICB Acquired: 2/18/2011 10:57:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00860**	**-.00165**	**.00083**	**.00119**	**.00001**	**-.01913**
Stddev	.00056	.00337	.00058	.00084	.00029	.00005	.01160
%RSD	79.976	39.220	35.165	101.54	24.106	811.22	60.663
#1	.00109	.00484	-.00099	.00065	.00118	.00005	-.00832
#2	.00006	.00960	-.00206	.00009	.00091	-.00005	-.03139
#3	.00095	.01135	-.00190	.00175	.00148	.00002	-.01767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00016**	**.00001**	**-.00004**	**.00186**	**.11277**	**-.00342**
Stddev	.00011	.00034	.00062	.00048	.00171	.06858	.00107
%RSD	1656.2	216.85	5019.5	1345.5	91.876	60.814	31.285
#1	-.00011	-.00005	-.00020	.00025	.00023	.18851	-.00464
#2	.00011	.00012	.00071	.00023	.00364	.09494	-.00299
#3	.00003	-.00054	-.00047	-.00059	.00172	.05487	-.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02261**	**-.00016**	**.00086**	**.01275**	**-.00059**	F **-3.4810**	**.00065**
Stddev	.00462	.00047	.00015	.02551	.00089	3.4024	.00064
%RSD	20.441	298.98	17.377	200.06	150.38	97.744	97.508
#1	.02692	-.00063	.00084	.00077	-.00024	-7.3844	.00139
#2	.02319	-.00015	.00102	.04204	.00007	-1.1430	.00037
#3	.01773	.00031	.00073	-.00456	-.00160	-1.9155	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.1000	
Low Limit						-1.0000	

Approved: February 21, 2011

Sample Name: ICB Acquired: 2/18/2011 10:57:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.590**	**-.07053**	F **2.9570**	**-.00020**	**.00316**	**.07596**	**.00074**
Stddev	7.314	.05141	2.9835	.00276	.00040	.15797	.00071
%RSD	31.006	72.895	100.90	1370.5	12.756	207.95	95.549
#1	28.521	-.03341	-.48805	-.00024	.00276	.09481	-.00008
#2	27.062	-.04897	4.6632	.00258	.00315	-.09058	.00115
#3	15.186	-.12921	4.6957	-.00294	.00356	.22366	.00116
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0400		1.0400				
Low Limit	-1.2000		-1.0400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00178**	**.00161**	**-.00019**	**.00061**	**-.07125**
Stddev	.00011	.00134	.00122	.00008	.00013	.22289
%RSD	74.294	75.334	75.992	43.080	21.491	312.83
#1	-.00025	-.00023	.00164	-.00024	.00062	.16944
#2	-.00015	-.00250	.00037	-.00009	.00074	-.27054
#3	-.00004	-.00261	.00281	-.00023	.00048	-.11265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**72407.**	**50510.**
Stddev	65.	212.
%RSD	.08940	.42008
#1	72365.	50752.
#2	72481.	50360.
#3	72373.	50416.

Approved: February 21, 2011

Sample Name: ICSA Acquired: 2/18/2011 11:01:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**219.65**	**-.00441**	**.03749**	**.00150**	**.00002**	**246.75**
Stddev	.00069	4.76	.00099	.00099	.00064	.00006	1.22
%RSD	106.40	2.1684	22.362	2.6400	42.403	297.77	.49446
#1	-.00011	215.26	-.00390	.03834	.00082	.00009	245.35
#2	.00080	218.99	-.00378	.03640	.00160	.00000	247.38
#3	.00123	224.71	-.00555	.03774	.00209	-.00002	247.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.00179**	**.00010**	**-.00110**	F **.00659**	**97.182**	**.13911**	**.00674**
Stddev	.00015	.00015	.00056	.00017	.353	.08632	.00213
%RSD	8.3515	154.60	50.859	2.5250	.36333	62.053	31.578
#1	.00189	.00007	-.00169	.00677	96.774	.12475	.00833
#2	.00162	.00027	-.00106	.00657	97.398	.06087	.00432
#3	.00187	-.00003	-.00057	.00644	97.373	.23172	.00757
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.00050			.00500			
Low Limit	-.00050			-.00500			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**245.05**	**-.00100**	**-.00078**	**.01187**	**-.00008**	F **-206.40**	F **.01064**
Stddev	1.22	.00035	.00050	.03042	.00019	16.05	.00301
%RSD	.49791	34.747	64.261	256.27	229.41	7.7769	28.271
#1	243.64	-.00134	-.00068	.04137	.00004	-198.57	.01093
#2	245.85	-.00103	-.00133	-.01939	-.00031	-224.86	.01349
#3	245.65	-.00064	-.00034	.01363	.00002	-195.76	.00749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						.50000	.00500
Low Limit						-.50000	-.00500

Approved: February 21, 2011

Sample Name: ICSA Acquired: 2/18/2011 11:01:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.800**	F **237.73**	F **36.420**	**-.00185**	**-.00509**	**.92052**	**.00062**
Stddev	32.194	.84	3.478	.00134	.00224	.07208	.00040
%RSD	104.53	.35274	9.5485	72.093	44.095	7.8299	64.051
#1	-42.901	237.56	40.280	-.00324	-.00595	.88281	.00037
#2	-55.190	236.99	35.446	-.00058	-.00254	.87513	.00108
#3	5.6914	238.64	33.533	-.00173	-.00677	1.0036	.00041
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.04000	.04000	.04000				
Low Limit	-.04000	-.04000	-.04000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00333**	**.00076**	**-.00216**	**-.00624**	F **-4.4948**
Stddev	.00010	.00034	.00189	.00019	.00027	.3786
%RSD	21.863	10.352	247.62	8.8435	4.2502	8.4241
#1	-.00037	-.00298	.00091	-.00195	-.00606	-4.1039
#2	-.00055	-.00367	.00258	-.00223	-.00612	-4.5207
#3	-.00041	-.00335	-.00119	-.00231	-.00654	-4.8599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**69004.**	**50913.**
Stddev	526.	1412.
%RSD	.76271	2.7736
#1	69163.	52465.
#2	69432.	50568.
#3	68417.	49705.

Approved: February 21, 2011

Sample Name: ICSAB Acquired: 2/18/2011 11:05:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46058**	**215.86**	**.24616**	**.04000**	**.24935**	**.24598**	**246.52**
Stddev	.01062	7.29	.00204	.00087	.00003	.00564	.33
%RSD	2.3061	3.3755	.82843	2.1635	.01239	2.2940	.13467
#1	.47153	224.12	.24768	.03900	.24936	.25157	246.28
#2	.45032	210.35	.24694	.04057	.24931	.24029	246.90
#3	.45990	213.09	.24384	.04042	.24937	.24608	246.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49036**	**.24294**	**.22263**	**.24720**	**97.109**	**5.0787**	**.01047**
Stddev	.00132	.00029	.00548	.00042	.144	.0262	.00164
%RSD	.26961	.11926	2.4621	.16854	.14833	.51539	15.690
#1	.48897	.24268	.22827	.24768	97.219	5.1082	.00876
#2	.49053	.24290	.21733	.24693	97.161	5.0582	.01203
#3	.49160	.24325	.22228	.24699	96.946	5.0696	.01062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**243.59**	**.24186**	**-.00092**	**5.1041**	**.48177**	F **-219.60**	**.49652**
Stddev	.05	.00119	.00022	.0133	.00170	13.44	.00095
%RSD	.01878	.49078	24.151	.26002	.35361	6.1191	.19062
#1	243.57	.24053	-.00111	5.0932	.48073	-204.99	.49552
#2	243.56	.24280	-.00097	5.1001	.48084	-231.44	.49740
#3	243.64	.24224	-.00068	5.1189	.48374	-222.38	.49664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.50000	
Low Limit						-.50000	

Approved: February 21, 2011

Sample Name: ICSAB Acquired: 2/18/2011 11:05:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.815**	F **237.51**	F **32.016**	**.49703**	**.24332**	**.98252**	**.00053**
Stddev	9.611	.59	1.605	.00233	.00456	.23198	.00010
%RSD	21.935	.24789	5.0140	.46864	1.8733	23.611	18.794
#1	-33.177	238.03	33.386	.49450	.24171	1.2342	.00064
#2	-46.396	236.87	32.412	.49909	.24847	.77734	.00045
#3	-51.871	237.64	30.249	.49750	.23980	.93599	.00050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.60000	.60000	.60000				
Low Limit	.40000	.40000	.40000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00215**	**.45712**	**.23040**	**.47304**	F **-4.2729**
Stddev	.00020	.00095	.00337	.00515	.00026	.2261
%RSD	73.421	44.255	.73684	2.2371	.05472	5.2905
#1	-.00009	-.00221	.45570	.23533	.47332	-4.5077
#2	-.00049	-.00308	.45470	.22505	.47281	-4.2541
#3	-.00025	-.00118	.46097	.23083	.47300	-4.0568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**69688.**	**52391.**
Stddev	1274.	547.
%RSD	1.8283	1.0433
#1	68255.	52008.
#2	70116.	53017.
#3	70692.	52149.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 11:08:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39504**	**9.9713**	**.40429**	**.49478**	**1.0150**	**.04900**	**10.139**
Stddev	.00933	.2467	.00164	.00705	.0034	.00104	.017
%RSD	2.3624	2.4739	.40620	1.4244	.33110	2.1203	.16762
#1	.38905	9.7979	.40364	.49061	1.0112	.04815	10.129
#2	.39028	9.8623	.40307	.49082	1.0177	.04869	10.128
#3	.40579	10.254	.40616	.50292	1.0160	.05015	10.158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05091**	**.20400**	**.49467**	**.50666**	**4.0693**	**50.984**	**1.0203**
Stddev	.00010	.00049	.01189	.00332	.0171	.198	.0057
%RSD	.20381	.24229	2.4045	.65458	.42151	.38801	.56253
#1	.05103	.20434	.48438	.50903	4.0512	50.759	1.0136
#2	.05088	.20422	.49194	.50807	4.0853	51.065	1.0240
#3	.05083	.20343	.50769	.50287	4.0715	51.129	1.0232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.193**	**.51002**	**1.0168**	**51.206**	**.50887**	F **7.3690**	**.50770**
Stddev	.013	.00106	.0030	.270	.00154	2.0540	.00141
%RSD	.12318	.20844	.29641	.52682	.30293	27.874	.27840
#1	10.203	.50960	1.0186	50.894	.51044	9.5699	.50633
#2	10.179	.50923	1.0185	51.370	.50879	5.5029	.50764
#3	10.198	.51123	1.0134	51.353	.50736	7.0343	.50915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 11:08:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-3.9843**	**10.277**	F **8.9470**	**1.2279**	**.40472**	F **4.3980**	**1.0178**
Stddev	26.041	.067	2.7737	.0021	.00038	.0324	.0043
%RSD	653.59	.64958	31.002	.17434	.09288	.73673	.42683
#1	-30.498	10.350	9.8268	1.2257	.40429	4.3876	1.0227
#2	21.558	10.220	11.174	1.2300	.40497	4.4343	1.0162
#3	-3.0130	10.260	5.8400	1.2280	.40489	4.3721	1.0145
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0173**	**1.0112**	**.51154**	**.98500**	**1.0076**	F **.71346**
Stddev	.0018	.0029	.00223	.01970	.0059	.26223
%RSD	.17217	.28992	.43524	2.0003	.58781	36.755
#1	1.0154	1.0141	.51021	.97005	1.0134	.70330
#2	1.0189	1.0083	.51411	.97764	1.0078	.98062
#3	1.0176	1.0114	.51031	1.0073	1.0015	.45645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**70648.**	**49832.**
Stddev	2509.	1514.
%RSD	3.5519	3.0380
#1	68143.	51357.
#2	70638.	49812.
#3	73162.	48329.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 11:12:29 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00098**	**.00177**	**.00013**	**.00018**	**.00003**	**-.00686**
Stddev	.00017	.00487	.00164	.00120	.00021	.00001	.01409
%RSD	17.916	497.23	92.698	897.07	113.63	31.506	205.24
#1	.00115	-.00078	.00313	-.00123	-.00005	.00003	.00598
#2	.00093	-.00277	.00221	.00064	.00027	.00003	-.00464
#3	.00081	.00649	-.00005	.00099	.00033	.00002	-.02193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00002**	**-.00024**	**-.00069**	**.00478**	**.01202**	**-.00337**
Stddev	.00010	.00014	.00032	.00010	.00618	.06724	.00184
%RSD	100.30	849.96	135.22	13.943	129.31	559.54	54.563
#1	.00001	-.00017	-.00006	-.00065	-.00205	-.04548	-.00533
#2	-.00018	.00004	-.00005	-.00080	.00641	-.00441	-.00311
#3	-.00013	.00008	-.00061	-.00062	.00997	.08594	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**-.00006**	**.00053**	**.01012**	**.00065**	F **-4.2060**	**-.00119**
Stddev	.00899	.00077	.00015	.02706	.00064	6.0933	.00128
%RSD	973.88	1387.8	28.614	267.41	98.672	144.87	108.30
#1	-.00580	.00076	.00063	.04107	-.00003	.97284	.00027
#2	.01114	-.00075	.00036	-.00167	.00074	-2.6706	-.00166
#3	-.00256	-.00018	.00060	-.00904	.00125	-10.920	-.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 11:12:29 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-11.852**	**-.10492**	F **4.8765**	**-.00168**	**.00001**	**-.18948**	**.00059**
Stddev	27.822	.07785	.2665	.00301	.00399	.20175	.00033
%RSD	234.75	74.198	5.4644	179.22	28277.	106.47	57.153
#1	-43.648	-.01910	4.6333	-.00457	-.00373	-.25259	.00039
#2	.0686	-.12467	4.8349	-.00188	.00421	-.35213	.00039
#3	8.0237	-.17099	5.1613	.00143	-.00043	.03627	.00097
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00087**	**.00168**	**.00028**	**.00004**	F **.20277**
Stddev	.00016	.00199	.00174	.00006	.00010	.25825
%RSD	59.291	228.01	103.75	21.021	282.56	127.36
#1	-.00009	.00111	.00201	.00025	-.00008	.17342
#2	-.00037	-.00122	-.00020	.00034	.00012	.47444
#3	-.00036	.00273	.00323	.00024	.00007	-.03954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74279.**	**53379.**
Stddev	112.	908.
%RSD	.15042	1.7017
#1	74188.	54247.
#2	74245.	53454.
#3	74404.	52435.

Approved: February 21, 2011

Sample Name: PBS 2P Acquired: 2/18/2011 11:16:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00772**	**.00094**	**.00062**	**.00078**	**.00000**	**-.01941**
Stddev	.00077	.00412	.00181	.00109	.00053	.0000	.00474
%RSD	126.94	53.394	192.43	177.02	68.954	637.18	24.409
#1	.00033	.00530	-.00110	.00105	.00087	.00003	-.01415
#2	.00002	.01249	.00158	-.00062	.00126	-.00002	-.02074
#3	.00148	.00539	.00234	.00143	.00020	-.00002	-.02334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00017**	**.00034**	**-.00067**	**-.00288**	**-.05105**	**-.00370**
Stddev	.0002	.00028	.00064	.00040	.01254	.04229	.00234
%RSD	6467.1	161.05	185.14	60.311	435.01	82.832	63.199
#1	-.00010	.00014	-.00015	-.00113	.00636	-.00241	-.00125
#2	.00018	-.00025	.00012	-.00039	-.01716	-.07169	-.00396
#3	-.00009	-.00041	.00106	-.00049	.00215	-.07905	-.00591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00908**	**.00053**	**.00002**	**-.00280**	**.00086**	F **-12.113**	**.00116**
Stddev	.01482	.00003	.00021	.00963	.00042	3.455	.00099
%RSD	163.17	4.8896	1026.4	343.81	48.740	28.526	85.680
#1	.02220	.00055	-.00021	.00607	.00069	-8.8449	.00004
#2	.01204	.00052	.00006	-.01304	.00134	-15.729	.00150
#3	-.00699	.00051	.00022	-.00143	.00056	-11.764	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: PBS 2P Acquired: 2/18/2011 11:16:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.0255**	F **-.04851**	**2.8495**	**-.00240**	**.00583**	**.15410**	**.00059**
Stddev	20.602	.07510	1.8531	.00093	.00368	.20596	.00025
%RSD	256.71	154.82	65.032	38.750	63.242	133.66	42.179
#1	9.9024	-.13108	.72164	-.00325	.00569	.01436	.00040
#2	-3.4473	-.03014	3.7183	-.00141	.00221	.05730	.00050
#3	-30.532	.01570	4.1087	-.00255	.00958	.39063	.00087
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00138**	**.00183**	**-.00038**	**.00142**	**.17392**
Stddev	.00021	.00058	.00102	.00027	.00003	.21976
%RSD	116.00	42.269	55.639	71.935	2.1708	126.36
#1	-.00031	.00164	.00070	-.00009	.00143	-.07876
#2	-.00030	.00178	.00211	-.00064	.00145	.28002
#3	.00006	.00071	.00268	-.00041	.00139	.32051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76119.**	**51179.**
Stddev	406.	790.
%RSD	.53330	1.5429
#1	76132.	50817.
#2	76519.	50634.
#3	75707.	52084.

Approved: February 21, 2011

Sample Name: LCSS 2P Acquired: 2/18/2011 11:19:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18218**	**4.4177**	**.18302**	**.86827**	**.47389**	**.02312**	**4.7138**
Stddev	.00213	.0462	.00328	.00812	.00133	.00026	.0268
%RSD	1.1694	1.0468	1.7921	.93554	.28058	1.1326	.56849
#1	.18221	4.4403	.18211	.87298	.47243	.02330	4.6868
#2	.18004	4.3645	.18030	.85889	.47503	.02282	4.7144
#3	.18430	4.4482	.18666	.87294	.47420	.02325	4.7404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02317**	**.09576**	**.23322**	**.23357**	**1.8637**	**23.576**	**.47792**
Stddev	.00013	.00020	.00337	.00167	.0046	.162	.00041
%RSD	.57953	.21050	1.4431	.71713	.24460	.68720	.08680
#1	.02328	.09598	.23546	.23165	1.8601	23.390	.47834
#2	.02302	.09573	.22935	.23429	1.8688	23.652	.47751
#3	.02321	.09558	.23485	.23476	1.8623	23.686	.47793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.7382**	**.23655**	**.49886**	**24.318**	**.23857**	F **-9.0341**	**.23498**
Stddev	.0207	.00100	.00044	.034	.00068	15.465	.00111
%RSD	.43577	.42411	.08736	.14144	.28393	171.18	.47195
#1	4.7321	.23639	.49882	24.287	.23934	-6.5134	.23626
#2	4.7612	.23563	.49845	24.355	.23807	-25.604	.23428
#3	4.7212	.23762	.49932	24.311	.23830	5.0155	.23440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: LCSS 2P Acquired: 2/18/2011 11:19:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-5.1243**	**4.7140**	**7.9975**	**.54535**	**.18334**	F **271.98**	**.48777**
Stddev	15.504	.0213	.7128	.00182	.00261	.58	.00057
%RSD	302.56	.45231	8.9127	.33322	1.4246	.21405	.11687
#1	12.741	4.7130	8.0782	.54579	.18047	271.95	.48780
#2	-13.059	4.6931	7.2479	.54335	.18558	271.42	.48719
#3	-15.055	4.7357	8.6666	.54690	.18397	272.58	.48833
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000					90.000	
Low Limit	-.00400					-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47347**	**.46969**	**.23547**	**.47919**	**.47324**	**.87565**
Stddev	.00166	.00254	.00267	.00522	.00037	.34843
%RSD	.35061	.54061	1.1322	1.0895	.07798	39.791
#1	.47156	.46738	.23283	.48188	.47349	1.1115
#2	.47452	.46927	.23543	.47317	.47282	.47544
#3	.47433	.47241	.23816	.48251	.47342	1.0400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**72906.**	**52807.**
Stddev	167.	681.
%RSD	.22940	1.2900
#1	73085.	52704.
#2	72753.	53534.
#3	72880.	52183.

Approved: February 21, 2011

Sample Name: L1102044701 Acquired: 2/18/2011 11:23:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**118.66**	**.09735**	**.15727**	**1.3040**	**.01105**	**19.117**
Stddev	.00042	1.65	.00128	.00148	.0038	.00002	.055
%RSD	54.482	1.3934	1.3133	.93854	.29319	.19131	.28912
#1	.00104	117.00	.09809	.15739	1.2998	.01104	19.053
#2	.00100	118.69	.09588	.15574	1.3049	.01108	19.147
#3	.00029	120.30	.09809	.15869	1.3073	.01104	19.151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	**.21207**	**.22860**	**.24502**	**377.21**	**7.9190**	**.28224**
Stddev	.00008	.00033	.00067	.00133	1.00	.0930	.00129
%RSD	4.5112	.15333	.29284	.54372	.26406	1.1738	.45794
#1	.00176	.21241	.22820	.24393	376.18	7.8182	.28142
#2	.00161	.21204	.22822	.24461	377.29	8.0014	.28373
#3	.00164	.21176	.22937	.24650	378.17	7.9375	.28158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.576**	**15.132**	**.01051**	**.23810**	**.14446**	F **18212.**	**.33136**
Stddev	.046	.019	.00025	.01309	.00031	35.	.00116
%RSD	.34103	.12270	2.3764	5.4983	.21483	.19083	.34859
#1	13.523	15.112	.01022	.22640	.14449	18237.	.33064
#2	13.605	15.148	.01061	.23566	.14476	18228.	.33269
#3	13.600	15.135	.01069	.25224	.14414	18173.	.33075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044701 Acquired: 2/18/2011 11:23:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.097**	F **108.45**	F **-3157.5**	**.00520**	**.01958**	F **261.36**	**.01181**
Stddev	18.108	.16	10.1	.00083	.00212	.67	.00032
%RSD	32.866	.14440	.32075	16.010	10.808	.25533	2.7323
#1	-67.853	108.31	-3147.0	.00614	.02198	260.77	.01184
#2	-63.068	108.43	-3158.3	.00490	.01798	261.22	.01212
#3	-34.371	108.62	-3167.2	.00456	.01878	262.08	.01147
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06837**	**.49182**	**.02212**	**.54490**	**.41516**	F **83.375**
Stddev	.00024	.00662	.00312	.00192	.00048	.212
%RSD	.35048	1.3454	14.103	.35225	.11578	.25488
#1	.06810	.49449	.02069	.54269	.41529	83.134
#2	.06856	.49669	.02570	.54608	.41557	83.454
#3	.06845	.48428	.01997	.54594	.41463	83.537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74594.**	**55688.**
Stddev	497.	811.
%RSD	.66596	1.4559
#1	74259.	56429.
#2	74358.	55815.
#3	75165.	54822.

Approved: February 21, 2011

Sample Name: L1102044702 Acquired: 2/18/2011 11:26:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**92.163**	**.06954**	**.11328**	**1.1053**	**.00912**	**18.928**
Stddev	.00056	.901	.00157	.00067	.0012	.00009	.020
%RSD	147.00	.97790	2.2606	.58731	.11032	.93365	.10748
#1	-.00018	91.240	.07033	.11292	1.1067	.00908	18.949
#2	.00037	93.041	.06773	.11287	1.1046	.00922	18.908
#3	.00094	92.209	.07056	.11405	1.1046	.00907	18.927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**.13705**	**.17402**	**.17225**	**276.14**	**5.3339**	**.15462**
Stddev	.00009	.00031	.00140	.00125	.25	.0404	.00199
%RSD	6.6827	.22510	.80504	.72841	.08905	.75683	1.2859
#1	.00141	.13676	.17297	.17209	276.40	5.2911	.15250
#2	.00134	.13702	.17561	.17109	276.11	5.3394	.15489
#3	.00123	.13737	.17348	.17359	275.91	5.3713	.15645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.009**	**12.386**	**.00645**	**.21163**	**.10429**	F **13889.**	**.25631**
Stddev	.060	.028	.00011	.01303	.00059	32.	.00182
%RSD	.54303	.22545	1.7630	6.1592	.56176	.23390	.70916
#1	11.057	12.414	.00633	.21608	.10427	13860.	.25561
#2	11.028	12.386	.00655	.19696	.10488	13884.	.25495
#3	10.942	12.358	.00647	.22186	.10371	13924.	.25838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044702 Acquired: 2/18/2011 11:26:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.140**	F **90.010**	F **-2505.0**	**.00013**	**.01863**	F **168.91**	**.00853**
Stddev	7.056	.351	11.9	.00271	.00168	.67	.00024
%RSD	12.795	.39006	.47622	2102.0	9.0310	.39637	2.8173
#1	-56.156	90.069	-2513.3	.00177	.01800	169.67	.00831
#2	-47.632	89.634	-2491.3	.00162	.01736	168.41	.00848
#3	-61.633	90.328	-2510.4	-.00300	.02054	168.64	.00878
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05295**	**.29511**	**.01532**	**.41893**	**.28864**	F **71.161**
Stddev	.00027	.00408	.00232	.00248	.00064	.887
%RSD	.50780	1.3824	15.159	.59095	.22221	1.2471
#1	.05326	.29637	.01794	.41822	.28830	70.742
#2	.05284	.29841	.01350	.42168	.28825	72.180
#3	.05275	.29055	.01453	.41689	.28938	70.560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79069.**	**57645.**
Stddev	49.	287.
%RSD	.06255	.49816
#1	79096.	57814.
#2	79012.	57313.
#3	79099.	57807.

Approved: February 21, 2011

Sample Name: L1102044703S Acquired: 2/18/2011 11:30:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16551**	**120.79**	**.26204**	**.79473**	**1.6238**	**.03050**	**21.484**
Stddev	.00130	1.29	.00072	.00621	.0089	.00040	.089
%RSD	.78359	1.0687	.27404	.78154	.55141	1.2993	.41282
#1	.16697	121.86	.26123	.80044	1.6145	.03088	21.411
#2	.16451	121.15	.26230	.78812	1.6247	.03009	21.459
#3	.16504	119.36	.26259	.79562	1.6323	.03052	21.582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02264**	**.27125**	**.42114**	**.44372**	**347.17**	**28.262**	**.69205**
Stddev	.00015	.00008	.00528	.00197	1.59	.139	.00240
%RSD	.67277	.02993	1.2534	.44387	.45928	.49076	.34725
#1	.02247	.27134	.42564	.44378	345.47	28.111	.68974
#2	.02272	.27119	.41533	.44173	347.41	28.384	.69187
#3	.02274	.27123	.42243	.44567	348.64	28.290	.69454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.983**	**14.195**	**.45802**	**22.316**	**.35744**	F **17242.**	**.50069**
Stddev	.066	.059	.00071	.161	.00122	16.	.00245
%RSD	.39075	.41757	.15399	.72260	.34176	.09503	.48982
#1	16.914	14.133	.45778	22.160	.35635	17253.	.50335
#2	16.990	14.203	.45748	22.305	.35876	17250.	.50021
#3	17.046	14.251	.45882	22.482	.35721	17223.	.49852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044703S Acquired: 2/18/2011 11:30:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-74.066**	F **104.43**	F **-2924.4**	**.49336**	**.17615**	F **644.59**	**.44321**
Stddev	2.414	.34	13.5	.00320	.00268	5.22	.00081
%RSD	3.2593	.32238	.46249	.64877	1.5234	.81058	.18265
#1	-74.434	104.49	-2921.5	.49430	.17881	649.29	.44337
#2	-76.275	104.07	-2912.6	.48979	.17620	645.53	.44233
#3	-71.490	104.73	-2939.1	.49598	.17344	638.96	.44393
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49368**	**1.2456**	**.22672**	**.95011**	**.80614**	F **58.339**
Stddev	.00186	.0057	.00133	.01028	.00076	.490
%RSD	.37768	.45982	.58446	1.0815	.09426	.83957
#1	.49155	1.2455	.22770	.95909	.80544	58.894
#2	.49501	1.2399	.22725	.93891	.80603	57.968
#3	.49449	1.2514	.22521	.95234	.80695	58.155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77983.**	**58867.**
Stddev	230.	269.
%RSD	.29530	.45709
#1	78248.	58643.
#2	77831.	59165.
#3	77871.	58792.

Approved: February 21, 2011

Sample Name: L1102044704SD Acquired: 2/18/2011 11:34:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16629**	**119.09**	**.24198**	**.77565**	**1.4670**	**.02908**	**22.320**
Stddev	.00120	2.37	.00352	.00233	.0018	.00011	.058
%RSD	.71911	1.9880	1.4556	.30071	.12388	.36976	.25894
#1	.16556	116.39	.23858	.77347	1.4668	.02897	22.254
#2	.16767	120.80	.24177	.77811	1.4689	.02919	22.344
#3	.16565	120.08	.24561	.77538	1.4653	.02908	22.362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02231**	**.22112**	**.38879**	**.38582**	**279.73**	**27.178**	**.64514**
Stddev	.00013	.00047	.00110	.00255	.40	.108	.00593
%RSD	.57836	.21312	.28360	.66171	.14249	.39670	.91971
#1	.02221	.22058	.38787	.38330	279.33	27.068	.64118
#2	.02245	.22136	.39001	.38575	280.13	27.284	.65197
#3	.02226	.22143	.38848	.38841	279.73	27.181	.64229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.697**	**10.754**	**.45260**	**22.032**	**.31892**	F **14789.**	**.47739**
Stddev	.052	.034	.00193	.060	.00040	40.	.00321
%RSD	.33062	.31595	.42547	.27211	.12687	.26773	.67229
#1	15.641	10.715	.45040	22.057	.31868	14743.	.47498
#2	15.743	10.774	.45344	22.075	.31939	14806.	.48104
#3	15.708	10.773	.45397	21.964	.31869	14817.	.47617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044704SD Acquired: 2/18/2011 11:34:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356852-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-64.743**	F **99.815**	F **-2731.6**	**.48698**	**.16941**	F **567.18**	**.36961**
Stddev	12.220	.322	14.5	.00502	.00074	.62	.00133
%RSD	18.875	.32276	.53106	1.0308	.43809	.10848	.36093
#1	-75.763	99.444	-2717.4	.48518	.16921	567.88	.36822
#2	-51.601	99.972	-2730.9	.48311	.16880	566.73	.36974
#3	-66.867	100.03	-2746.4	.49265	.17024	566.93	.37087
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48355**	**.99866**	**.22080**	**.87727**	**.74644**	F **53.375**
Stddev	.00175	.00333	.00030	.00418	.00214	.209
%RSD	.36256	.33373	.13807	.47634	.28607	.39088
#1	.48157	.99643	.22108	.87284	.74413	53.387
#2	.48490	.99706	.22085	.88114	.74684	53.161
#3	.48417	1.0025	.22047	.87784	.74835	53.577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78287.**	**57398.**
Stddev	327.	192.
%RSD	.41802	.33503
#1	78664.	57403.
#2	78112.	57204.
#3	78084.	57588.

Approved: February 21, 2011

Sample Name: L1102044706 Acquired: 2/18/2011 11:37:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01323**	**295.48**	**.14756**	**.40506**	**.35958**	**.01265**	**5.8014**
Stddev	.00089	8.36	.00336	.00470	.00057	.00038	.0370
%RSD	6.7639	2.8304	2.2737	1.1600	.15979	2.9986	.63752
#1	.01239	288.08	.14984	.40295	.35901	.01230	5.7903
#2	.01313	293.81	.14371	.41044	.35957	.01260	5.7713
#3	.01417	304.56	.14913	.40178	.36016	.01306	5.8427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.07888**	**.74045**	**.60542**	F **1051.0**	**8.6356**	**.32622**
Stddev	.00020	.00013	.01754	.00423	14.7	.0260	.00176
%RSD	13.840	.17047	2.3695	.69892	1.3988	.30109	.53846
#1	.00143	.07891	.72694	.60948	1034.1	8.6058	.32511
#2	.00164	.07873	.73413	.60103	1058.2	8.6472	.32530
#3	.00124	.07899	.76028	.60576	1060.7	8.6538	.32824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.730**	**.99897**	**.01313**	**.19800**	**.31109**	F **7352.8**	**.32340**
Stddev	.046	.00157	.00053	.01412	.00077	42.7	.00217
%RSD	.31384	.15686	4.0149	7.1306	.24822	.58132	.67248
#1	14.680	.99749	.01264	.21387	.31038	7303.5	.32591
#2	14.738	.99880	.01369	.19331	.31191	7378.9	.32224
#3	14.771	1.0006	.01308	.18683	.31099	7376.1	.32206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044706 Acquired: 2/18/2011 11:37:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-15.909**	F **52.271**	F **-1657.0**	**.02208**	**.01696**	F **336.66**	**.03436**
Stddev	17.775	.234	9.3	.00178	.00179	2.04	.00056
%RSD	111.73	.44851	.56370	8.0700	10.569	.60592	1.6181
#1	-12.569	52.158	-1655.6	.02072	.01895	334.72	.03406
#2	-35.117	52.115	-1648.5	.02143	.01647	336.47	.03500
#3	-.0411	52.541	-1667.0	.02410	.01546	338.79	.03403
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05199**	**.95569**	**.05354**	**1.8213**	**.29474**	F **514.01**
Stddev	.00028	.00393	.00130	.0486	.00082	9.39
%RSD	.53954	.41097	2.4298	2.6668	.27656	1.8268
#1	.05167	.95893	.05311	1.7796	.29394	505.18
#2	.05210	.95683	.05251	1.8096	.29470	512.98
#3	.05219	.95132	.05500	1.8746	.29557	523.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76629.**	**52634.**
Stddev	150.	371.
%RSD	.19604	.70557
#1	76457.	53017.
#2	76733.	52275.
#3	76697.	52608.

Approved: February 21, 2011

Sample Name: L1102044706PS Acquired: 2/18/2011 11:41:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356945-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19136**	**260.31**	**.31572**	**1.1952**	**.79020**	**.03366**	**9.8941**
Stddev	.00114	1.69	.00196	.0086	.00089	.00012	.0201
%RSD	.59324	.64892	.62099	.71802	.11323	.36064	.20313
#1	.19039	258.36	.31492	1.1872	.79049	.03359	9.8711
#2	.19261	261.22	.31429	1.2042	.79092	.03380	9.9079
#3	.19107	261.34	.31796	1.1940	.78920	.03359	9.9034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02421**	**.16139**	**.85619**	**.76183**	F **959.79**	**31.154**	**.76752**
Stddev	.00024	.00040	.00373	.00277	11.71	.062	.00361
%RSD	.99663	.25029	.43563	.36330	1.2195	.19779	.47044
#1	.02396	.16095	.85502	.76438	950.34	31.082	.77143
#2	.02444	.16174	.86037	.75889	972.89	31.191	.76432
#3	.02422	.16148	.85319	.76221	956.15	31.187	.76682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.657**	**1.1215**	**.49562**	**24.200**	**.50557**	F **6618.5**	**.50784**
Stddev	.036	.0021	.00032	.038	.00100	25.1	.00032
%RSD	.20540	.18438	.06509	.15847	.19763	.37919	.06286
#1	17.637	1.1197	.49598	24.223	.50563	6635.7	.50756
#2	17.699	1.1210	.49554	24.220	.50654	6630.1	.50776
#3	17.636	1.1237	.49535	24.155	.50454	6589.7	.50819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044706PS Acquired: 2/18/2011 11:41:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356945-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-62.683**	F **51.767**	F **-1499.3**	**.55472**	**.19836**	F **561.44**	**.03140**
Stddev	2.457	.011	3.5	.00353	.00230	1.07	.00028
%RSD	3.9189	.02071	.23358	.63581	1.1589	.19062	.87675
#1	-64.829	51.779	-1495.3	.55849	.19968	562.07	.03122
#2	-63.217	51.762	-1501.9	.55151	.19969	562.05	.03172
#3	-60.003	51.758	-1500.7	.55415	.19570	560.21	.03127
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51753**	**1.3047**	**.26649**	**2.0434**	**.71755**	F **463.04**
Stddev	.00122	.0017	.00149	.0080	.00021	2.53
%RSD	.23545	.13048	.55993	.39370	.02978	.54710
#1	.51613	1.3038	.26623	2.0396	.71731	461.55
#2	.51814	1.3067	.26514	2.0526	.71770	465.97
#3	.51832	1.3038	.26809	2.0379	.71765	461.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75881.**	**56650.**
Stddev	160.	388.
%RSD	.21111	.68523
#1	76049.	56859.
#2	75863.	56202.
#3	75730.	56889.

Approved: February 21, 2011

Sample Name: L1102044706SDL Acquired: 2/18/2011 11:45:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356945-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00288**	**70.687**	**.03132**	**.08973**	**.07306**	**.00258**	**1.1969**
Stddev	.00135	.712	.00151	.00077	.00049	.00003	.0106
%RSD	47.054	1.0073	4.8315	.85341	.67224	1.3400	.88222
#1	.00148	69.917	.02977	.09021	.07322	.00259	1.2078
#2	.00298	70.824	.03280	.09013	.07251	.00254	1.1867
#3	.00418	71.321	.03140	.08885	.07345	.00260	1.1961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.01698**	**.15518**	**.12853**	**227.01**	**1.7272**	**.06459**
Stddev	.00013	.00008	.00209	.00214	.55	.0784	.00264
%RSD	75.822	.46164	1.3438	1.6677	.24013	4.5404	4.0838
#1	.00015	.01701	.15279	.12608	226.52	1.6373	.06740
#2	.00005	.01690	.15611	.12943	226.92	1.7632	.06419
#3	.00030	.01705	.15663	.13008	227.60	1.7813	.06217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1259**	**.20737**	**.00249**	**.04308**	**.06789**	F **1584.2**	**.06872**
Stddev	.0263	.00073	.00001	.00483	.00049	17.6	.00268
%RSD	.84117	.35225	.40273	11.206	.71890	1.1117	3.8927
#1	3.1513	.20684	.00249	.03894	.06828	1581.8	.06777
#2	3.1275	.20821	.00250	.04191	.06805	1568.0	.06665
#3	3.0988	.20707	.00248	.04838	.06734	1602.9	.07174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044706SDL Acquired: 2/18/2011 11:45:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356945-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-38.629**	F **11.053**	F **-349.69**	**.00137**	**.00496**	**71.054**	**.00743**
Stddev	16.987	.174	2.37	.00093	.00232	1.092	.00028
%RSD	43.975	1.5731	.67791	67.968	46.755	1.5372	3.7646
#1	-57.765	10.882	-347.18	.00234	.00763	70.277	.00718
#2	-32.788	11.049	-351.89	.00048	.00387	70.583	.00773
#3	-25.332	11.229	-350.01	.00128	.00339	72.303	.00737
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01060**	**.19490**	**.01434**	**.37535**	**.06329**	F **97.038**
Stddev	.00014	.00249	.00106	.00434	.00044	.147
%RSD	1.3573	1.2756	7.3833	1.1560	.70132	.15108
#1	.01057	.19445	.01330	.37082	.06301	97.093
#2	.01047	.19267	.01429	.37576	.06305	97.150
#3	.01075	.19758	.01542	.37947	.06380	96.872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77611.**	**55762.**
Stddev	255.	482.
%RSD	.32888	.86355
#1	77677.	56259.
#2	77329.	55730.
#3	77826.	55298.

Approved: February 21, 2011

Sample Name: L1102044706SDL Acquired: 2/18/2011 11:48:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356945-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**15.950**	**.00691**	**.01875**	**.01587**	**.00058**	**.22580**
Stddev	.00031	.097	.00271	.00043	.00060	.00002	.00629
%RSD	46.107	.60654	39.185	2.3032	3.7994	3.4714	2.7845
#1	.00042	15.852	.00627	.01897	.01656	.00056	.22695
#2	.00101	15.952	.00988	.01902	.01562	.00058	.23144
#3	.00056	16.045	.00458	.01825	.01543	.00060	.21902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00376**	**.03355**	**.02730**	**47.302**	**.33333**	**.01239**
Stddev	.00009	.00019	.00097	.00025	.108	.02918	.00216
%RSD	114.99	4.9762	2.8863	.90155	.22923	8.7539	17.409
#1	-.00001	.00356	.03395	.02745	47.348	.31969	.01356
#2	-.00017	.00393	.03245	.02744	47.380	.31347	.00990
#3	-.00005	.00379	.03426	.02702	47.178	.36683	.01371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.66661**	**.04395**	**.00005**	**-.00778**	**.01437**	**339.90**	**.01493**
Stddev	.03288	.00042	.00030	.01593	.00063	3.77	.00369
%RSD	4.9330	.96688	621.08	204.78	4.4074	1.1091	24.721
#1	.63660	.04383	.00033	.00029	.01385	335.60	.01153
#2	.70176	.04442	-.00026	-.02612	.01419	341.45	.01440
#3	.66147	.04360	.00007	.00250	.01508	342.64	.01886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044706SDL Acquired: 2/18/2011 11:48:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356945-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-19.371**	**2.1575**	F **-69.805**	**-.00205**	**.00271**	**14.234**	**.00122**
Stddev	3.600	.0571	3.154	.00221	.00266	.175	.00005
%RSD	18.583	2.6474	4.5183	107.69	98.200	1.2295	4.3351
#1	-15.404	2.0941	-72.537	-.00054	.00575	14.097	.00128
#2	-22.428	2.1735	-66.353	-.00103	.00085	14.174	.00119
#3	-20.283	2.2049	-70.524	-.00459	.00152	14.431	.00119
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**.03850**	**.00391**	**.08035**	**.01407**	**17.969**
Stddev	.00005	.00077	.00047	.00087	.00013	.227
%RSD	2.7722	1.9947	11.939	1.0802	.89217	1.2631
#1	.00193	.03762	.00417	.07935	.01412	18.202
#2	.00202	.03882	.00337	.08074	.01393	17.749
#3	.00193	.03904	.00418	.08095	.01417	17.956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77214.**	**53277.**
Stddev	233.	232.
%RSD	.30169	.43465
#1	77215.	53537.
#2	76980.	53201.
#3	77446.	53092.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 11:52:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37689**	**9.4812**	**.38187**	**.47114**	**.94990**	**.04669**	**9.5222**
Stddev	.00149	.0731	.00050	.00268	.00220	.00026	.0289
%RSD	.39535	.77043	.12970	.56789	.23157	.55463	.30296
#1	.37758	9.4794	.38158	.47275	.95243	.04687	9.5466
#2	.37790	9.5551	.38158	.47262	.94873	.04681	9.4904
#3	.37518	9.4090	.38244	.46805	.94853	.04639	9.5295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04796**	**.19211**	**.47033**	**.47708**	**3.8541**	**47.760**	**.95486**
Stddev	.00019	.00040	.00140	.00096	.0107	.165	.00142
%RSD	.40609	.20655	.29683	.20180	.27863	.34468	.14914
#1	.04786	.19181	.47140	.47656	3.8665	47.633	.95326
#2	.04784	.19197	.47084	.47819	3.8482	47.946	.95599
#3	.04818	.19256	.46875	.47648	3.8476	47.702	.95532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5500**	**.47966**	**.95764**	**47.883**	**.48004**	F **5.2606**	**.48038**
Stddev	.0312	.00206	.00156	.103	.00172	5.8799	.00244
%RSD	.32703	.42921	.16308	.21479	.35905	111.77	.50692
#1	9.5801	.48145	.95945	48.002	.48032	-.89698	.47791
#2	9.5520	.48013	.95672	47.826	.47819	5.8623	.48046
#3	9.5178	.47741	.95676	47.822	.48161	10.817	.48278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 11:52:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-18.748**	**9.6303**	F **11.667**	**1.1545**	**.37777**	F **4.4124**	**.96045**
Stddev	12.699	.0724	2.014	.0045	.00372	.0484	.00132
%RSD	67.735	.75166	17.264	.39174	.98383	1.0967	.13755
#1	-6.9081	9.6977	9.3604	1.1511	.38101	4.4243	.95895
#2	-17.177	9.5538	13.081	1.1529	.37859	4.3592	.96101
#3	-32.160	9.6395	12.558	1.1597	.37371	4.4537	.96141
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95486**	**.95021**	**.48266**	**.94164**	**.94970**	F **9.7894**
Stddev	.00164	.00414	.00095	.00329	.00090	.7402
%RSD	.17138	.43597	.19678	.34949	.09515	7.5618
#1	.95559	.94579	.48370	.94388	.94895	8.9356
#2	.95600	.95083	.48244	.94318	.94945	10.182
#3	.95298	.95401	.48184	.93786	.95070	10.251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73542.**	**52263.**
Stddev	331.	207.
%RSD	.44979	.39555
#1	73322.	52132.
#2	73381.	52155.
#3	73922.	52501.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 11:55:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**.00644**	**.00023**	**.00044**	**.00074**	**.00004**	**-.00217**
Stddev	.00035	.00649	.00083	.00118	.00024	.00002	.01967
%RSD	34.575	100.79	360.32	267.90	32.887	40.395	906.73
#1	.00063	.01135	.00013	.00067	.00051	.00005	.01662
#2	.00110	-.00092	.00110	-.00084	.00100	.00005	-.00052
#3	.00132	.00889	-.00054	.00149	.00071	.00002	-.02262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00010**	**.00007**	**-.00118**	**.00278**	**.01405**	**-.00196**
Stddev	.00016	.00022	.00058	.00036	.00420	.11265	.00175
%RSD	799.37	220.78	798.49	30.316	151.26	801.93	88.947
#1	.00017	.00000	-.00038	-.00144	.00222	.13783	-.00368
#2	-.00009	-.00006	.00072	-.00077	.00723	-.08246	-.00019
#3	-.00014	.00036	-.00013	-.00132	-.00112	-.01322	-.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01316**	**.00060**	**.00055**	**.02818**	**.00024**	F **-7.0967**	**.00046**
Stddev	.02496	.00039	.00011	.00460	.00022	1.7264	.00197
%RSD	189.72	64.104	19.351	16.319	89.904	24.327	431.67
#1	-.01566	.00105	.00062	.03321	.00019	-8.1800	-.00125
#2	.02715	.00039	.00042	.02713	.00006	-8.0044	.00000
#3	.02798	.00037	.00060	.02419	.00048	-5.1058	.00262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 11:55:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.3244**	**-.01674**	F **2.2594**	**-.00379**	**.00250**	**.21732**	**.00069**
Stddev	17.173	.00943	1.5250	.00291	.00219	.09240	.00037
%RSD	271.53	56.327	67.497	76.778	87.466	42.519	53.301
#1	11.484	-.02681	.49870	-.00713	.00281	.11092	.00029
#2	-7.6759	-.01529	3.1136	-.00251	.00452	.26362	.00100
#3	-22.782	-.00812	3.1658	-.00175	.00018	.27741	.00077
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00014**	**.00121**	**-.00001**	**.00010**	F **.57921**
Stddev	.00015	.00184	.00016	.00016	.00008	.07880
%RSD	198.00	1336.9	12.983	1427.1	85.093	13.604
#1	-.00022	-.00226	.00117	.00014	.00010	.52521
#2	-.00008	.00080	.00107	.00001	.00018	.54279
#3	.00008	.00105	.00138	-.00018	.00001	.66964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75106.**	**52417.**
Stddev	285.	91.
%RSD	.37966	.17339
#1	75432.	52513.
#2	74985.	52404.
#3	74901.	52333.

Approved: February 21, 2011

Sample Name: L1102044707 Acquired: 2/18/2011 11:59:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01172**	**246.26**	**.10741**	**.36546**	**.35332**	**.01344**	**5.7867**
Stddev	.00052	9.81	.00121	.00561	.00028	.00038	.0148
%RSD	4.4073	3.9831	1.1291	1.5338	.07871	2.8333	.25541
#1	.01147	238.50	.10880	.36115	.35347	.01304	5.7720
#2	.01138	243.00	.10657	.37180	.35299	.01349	5.8016
#3	.01232	257.29	.10685	.36344	.35348	.01380	5.7865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**.10635**	**.62283**	**.52975**	F **956.92**	**8.0853**	**.27578**
Stddev	.00019	.00008	.01870	.00647	13.58	.0363	.00107
%RSD	15.630	.07121	3.0024	1.2204	1.4186	.44859	.38782
#1	.00116	.10627	.60278	.53696	941.39	8.1242	.27542
#2	.00108	.10635	.62593	.52783	966.56	8.0524	.27493
#3	.00145	.10642	.63979	.52447	962.81	8.0794	.27698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.360**	**1.5800**	**.00674**	**.19232**	**.29543**	F **7224.2**	**.30752**
Stddev	.023	.0025	.00058	.01408	.00201	9.5	.00359
%RSD	.14973	.16020	8.6701	7.3213	.68085	.13125	1.1674
#1	15.334	1.5784	.00667	.20698	.29775	7232.5	.31136
#2	15.377	1.5787	.00736	.19108	.29440	7213.8	.30694
#3	15.370	1.5829	.00620	.17890	.29415	7226.2	.30425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044707 Acquired: 2/18/2011 11:59:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.593**	F **43.497**	F **-1346.2**	**.01572**	**.01401**	F **251.88**	**.02892**
Stddev	13.170	.395	14.8	.00491	.00475	1.54	.00025
%RSD	21.382	.90906	1.1030	31.239	33.891	.61099	.85707
#1	-55.231	43.934	-1358.4	.02004	.01081	253.49	.02882
#2	-52.813	43.394	-1350.5	.01675	.01947	251.73	.02921
#3	-76.736	43.164	-1329.7	.01038	.01176	250.42	.02875
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05124**	**.70105**	**.05128**	**1.6031**	**.27975**	F **465.11**
Stddev	.00010	.00098	.00313	.0511	.00053	13.41
%RSD	.19297	.14049	6.1127	3.1895	.19094	2.8835
#1	.05119	.70112	.04774	1.5501	.28023	450.13
#2	.05119	.70200	.05371	1.6070	.27985	469.16
#3	.05136	.70003	.05240	1.6521	.27917	476.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78495.**	**55636.**
Stddev	576.	544.
%RSD	.73436	.97800
#1	78947.	56263.
#2	78691.	55357.
#3	77846.	55289.

Approved: February 21, 2011

Sample Name: L1102043201 Acquired: 2/18/2011 12:03:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00468**	**14.231**	**.03334**	**.03077**	**.68029**	**.00124**	**30.390**
Stddev	.00051	.121	.00040	.00139	.00212	.00003	.068
%RSD	10.980	.85103	1.1980	4.5107	.31095	2.7250	.22215
#1	.00454	14.325	.03288	.03218	.67849	.00125	30.333
#2	.00525	14.274	.03361	.02940	.67977	.00126	30.373
#3	.00425	14.094	.03352	.03073	.68262	.00120	30.465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**.01379**	**.13466**	**1.0688**	**62.863**	**1.3657**	**.01070**
Stddev	.00009	.00025	.00092	.0004	.202	.0749	.00150
%RSD	2.0482	1.7830	.68447	.03857	.32129	5.4858	13.981
#1	.00448	.01405	.13516	1.0692	62.657	1.3503	.00899
#2	.00466	.01356	.13522	1.0690	62.871	1.2997	.01132
#3	.00454	.01376	.13359	1.0684	63.060	1.4471	.01178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.7921**	**.66352**	**.00458**	**.41587**	**.17298**	F **6128.1**	**2.5851**
Stddev	.0185	.00203	.00013	.01941	.00020	7.8	.0030
%RSD	.27172	.30549	2.8190	4.6665	.11323	.12810	.11486
#1	6.7942	.66119	.00460	.39898	.17305	6121.5	2.5883
#2	6.7727	.66453	.00444	.41155	.17313	6136.8	2.5825
#3	6.8094	.66484	.00470	.43707	.17276	6126.2	2.5846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102043201 Acquired: 2/18/2011 12:03:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-35.673**	F **68.642**	F **-1347.5**	**.02092**	**.00775**	F **173.49**	**.08366**
Stddev	4.359	.213	6.5	.00243	.00224	.53	.00066
%RSD	12.220	.31034	.47886	11.639	28.934	.30519	.78848
#1	-35.378	68.721	-1353.8	.01827	.00899	172.94	.08422
#2	-31.469	68.805	-1347.8	.02144	.00516	173.52	.08294
#3	-40.173	68.401	-1340.9	.02305	.00910	174.00	.08383
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22875**	**.28919**	**.01000**	**.34668**	**3.1159**	F **61.932**
Stddev	.00049	.00174	.00161	.00169	.0024	.195
%RSD	.21521	.60009	16.062	.48767	.07813	.31452
#1	.22822	.28915	.01178	.34748	3.1155	62.032
#2	.22920	.28748	.00865	.34781	3.1185	62.056
#3	.22882	.29095	.00958	.34473	3.1137	61.707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76527.**	**54951.**
Stddev	196.	245.
%RSD	.25599	.44615
#1	76309.	54715.
#2	76689.	54933.
#3	76584.	55204.

Approved: February 21, 2011

Sample Name: LRC Acquired: 2/18/2011 12:12:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**-.00616**	F **-.02011**	**.38238**	**.00036**	**-.00005**	**-.07624**
Stddev	.00112	.00548	.00204	.00311	.00032	.00003	.00489
%RSD	122.47	88.876	10.154	.81282	88.995	62.971	6.4142
#1	.00127	-.00540	-.01787	.38095	.00056	-.00002	-.07562
#2	.00181	-.01198	-.02187	.38026	.00054	-.00008	-.08141
#3	-.00034	-.00111	-.02059	.38595	-.00001	-.00005	-.07169
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-.01000				

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00461**	F **-.04205**	**.11663**	F **993.36**	**-.09396**	**-.00245**
Stddev	.00008	.00024	.00039	.00359	6.72	.05925	.00338
%RSD	53.060	5.2775	.92794	3.0756	.67657	63.058	138.06
#1	-.00017	-.00449	-.04190	.12077	989.70	-.07225	-.00008
#2	-.00024	-.00445	-.04175	.11444	989.27	-.04863	-.00631
#3	-.00007	-.00489	-.04249	.11467	1001.1	-.16101	-.00094
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		900.00		
Low Limit			-.00300		-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.04219**	**.00159**	**-.00614**	**.00315**	**.00856**	kF **966.24**	**.06930**
Stddev	.01655	.00050	.00012	.01227	.00123	4.04	.00162
%RSD	39.230	31.353	1.9848	389.13	14.322	.41799	2.3426
#1	-.03770	.00212	-.00620	-.00176	.00720	k 962.35	.06867
#2	-.02835	.00112	-.00600	.01712	.00958	k 965.95	.07115
#3	-.06053	.00154	-.00622	-.00590	.00889	k 970.41	.06809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: LRC Acquired: 2/18/2011 12:12:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-29.526**	F **-.19350**	F **12.756**	**.00175**	**.01802**	**1.6337**	**.00567**
Stddev	9.361	.04217	2.525	.00322	.00580	.2926	.00035
%RSD	31.706	21.791	19.790	183.83	32.190	17.910	6.1102
#1	-21.182	-.15060	10.677	-.00195	.02026	1.6804	.00606
#2	-39.649	-.23489	12.027	.00327	.01143	1.3206	.00539
#3	-27.747	-.19500	15.565	.00394	.02237	1.9002	.00557
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00083**	**.00802**	F **-.01877**	**.00316**	^ *****
Stddev	.00017	.00210	.00065	.00042	.00005	-----
%RSD	87.632	254.65	8.1129	2.2208	1.5482	-----
#1	-.00017	.00322	.00798	-.01870	.00312	^ -----
#2	-.00039	-.00074	.00739	-.01840	.00314	^ -----
#3	-.00004	.00000	.00869	-.01922	.00321	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.000		
Low Limit				-.01000		

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**71644.**	**51973.**
Stddev	216.	155.
%RSD	.30162	.29750
#1	71728.	51847.
#2	71399.	52146.
#3	71806.	51928.

Approved: February 21, 2011

Sample Name: L1102044701 Acquired: 2/18/2011 12:17:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment: WG356852-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**7.4029**	**.00699**	**.00534**	**.06533**	**.00061**	**.95293**
Stddev	.00055	.0348	.00074	.00062	.00067	.00004	.01861
%RSD	144.84	.46983	10.527	11.649	1.0191	6.9826	1.9531
#1	.00081	7.4301	.00748	.00590	.06463	.00065	.97339
#2	.00055	7.3637	.00734	.00543	.06542	.00057	.94837
#3	-.00024	7.4149	.00614	.00467	.06595	.00060	.93702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01133**	**.01193**	**.01325**	**19.030**	**.34823**	**.01169**
Stddev	.00005	.00005	.00022	.00044	.094	.02287	.00469
%RSD	221.03	.42815	1.8260	3.3299	.49493	6.5689	40.156
#1	-.00004	.01132	.01174	.01329	18.960	.32212	.01490
#2	.00005	.01129	.01189	.01368	18.992	.36472	.00630
#3	.00006	.01138	.01217	.01279	19.137	.35786	.01386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.70282**	**.77112**	**.00001**	**.03145**	**.00777**	F **977.04**	**.01864**
Stddev	.01978	.00412	.00015	.01953	.00077	4.69	.00061
%RSD	2.8141	.53460	1737.4	62.106	9.9524	.48049	3.2592
#1	.72560	.76688	.00012	.01589	.00846	973.81	.01895
#2	.69005	.77138	-.00016	.05337	.00793	974.90	.01794
#3	.69279	.77511	.00007	.02510	.00693	982.43	.01904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044701 Acquired: 2/18/2011 12:17:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment: WG356852-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-35.637**	**5.7990**	F **-165.67**	**-.00247**	**.00120**	**13.101**	**.00014**
Stddev	6.128	.1029	.84	.00157	.00216	.052	.00074
%RSD	17.194	1.7740	.50563	63.416	180.52	.39372	544.08
#1	-36.893	5.6864	-164.84	-.00287	-.00129	13.085	.00029
#2	-28.979	5.8224	-165.65	-.00380	.00258	13.159	-.00066
#3	-41.040	5.8881	-166.51	-.00074	.00230	13.059	.00078
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00307**	**.02379**	**.00351**	**.02811**	**.02327**	**4.9290**
Stddev	.00008	.00143	.00057	.00030	.00015	.2187
%RSD	2.6848	6.0109	16.244	1.0549	.64407	4.4377
#1	.00297	.02286	.00417	.02777	.02333	4.6803
#2	.00311	.02308	.00316	.02825	.02310	5.0152
#3	.00311	.02544	.00320	.02831	.02338	5.0915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76334.**	**54914.**
Stddev	288.	324.
%RSD	.37744	.58942
#1	76327.	55066.
#2	76626.	55134.
#3	76050.	54543.

Approved: February 21, 2011

Sample Name: L1102044702 Acquired: 2/18/2011 12:20:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**6.0294**	**.00624**	**.00451**	**.06136**	**.00054**	**1.0566**
Stddev	.00051	.0114	.00203	.00065	.00031	.00003	.0040
%RSD	452.12	.18823	32.456	14.336	.50887	5.4974	.37683
#1	.00069	6.0282	.00458	.00432	.06159	.00051	1.0561
#2	-.00014	6.0186	.00850	.00399	.06101	.00057	1.0609
#3	-.00022	6.0413	.00565	.00523	.06149	.00055	1.0530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00841**	**.00979**	**.01170**	**15.461**	**.20785**	**.00613**
Stddev	.00010	.00011	.00030	.00021	.056	.14579	.00361
%RSD	102.45	1.3565	3.0467	1.7527	.36232	70.143	58.974
#1	.00001	.00844	.00958	.01193	15.424	.29326	.00509
#2	-.00012	.00829	.01013	.01160	15.433	.29078	.01015
#3	-.00019	.00851	.00964	.01156	15.525	.03951	.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.63401**	**.70361**	**.00000**	**-.00342**	**.00556**	**827.71**	**.01543**
Stddev	.03500	.00341	.00024	.00293	.00060	8.46	.00236
%RSD	5.5206	.48416	34707.	85.653	10.798	1.0223	15.310
#1	.59365	.70121	.00008	-.00107	.00619	824.53	.01761
#2	.65606	.70211	.00020	-.00248	.00500	821.31	.01292
#3	.65232	.70751	-.00027	-.00670	.00549	837.31	.01575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044702 Acquired: 2/18/2011 12:20:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-11.554**	**5.4713**	F **-149.88**	**-.00238**	**.00398**	**9.2400**	**.00030**
Stddev	7.691	.0669	2.95	.00212	.00444	.0637	.00047
%RSD	66.569	1.2228	1.9682	89.110	111.55	.68965	158.77
#1	-14.815	5.4438	-147.33	-.00472	.00658	9.2556	.00074
#2	-17.077	5.5475	-149.20	-.00187	-.00115	9.1699	.00035
#3	-2.7692	5.4225	-153.11	-.00056	.00652	9.2944	-.00020
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00277**	**.01668**	**.00281**	**.02391**	**.01812**	**4.1883**
Stddev	.00013	.00350	.00096	.00039	.00010	.3524
%RSD	4.8713	20.951	34.263	1.6391	.52943	8.4135
#1	.00281	.01415	.00311	.02394	.01803	4.5883
#2	.00262	.01522	.00173	.02351	.01822	4.0529
#3	.00288	.02067	.00358	.02429	.01810	3.9237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74649.**	**54110.**
Stddev	618.	240.
%RSD	.82836	.44429
#1	75258.	54258.
#2	74667.	54240.
#3	74021.	53833.

Approved: February 21, 2011

Sample Name: L1102044703 Acquired: 2/18/2011 12:24:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment: WG356852-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01211**	**8.8231**	**.01798**	**.05082**	**.09204**	**.00189**	**1.1873**
Stddev	.00110	.1141	.00107	.00148	.00025	.00005	.0075
%RSD	9.0962	1.2931	5.9647	2.9210	.27020	2.5187	.63269
#1	.01131	8.7898	.01794	.05248	.09221	.00186	1.1837
#2	.01337	8.9501	.01693	.05036	.09215	.00194	1.1960
#3	.01166	8.7293	.01907	.04962	.09175	.00186	1.1824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.01601**	**.02686**	**.02603**	**19.862**	**1.6653**	**.03820**
Stddev	.00005	.00029	.00056	.00051	.014	.0852	.00217
%RSD	3.9914	1.7854	2.0828	1.9730	.07193	5.1153	5.6872
#1	.00118	.01594	.02673	.02571	19.866	1.7306	.03630
#2	.00127	.01576	.02747	.02576	19.847	1.6964	.03774
#3	.00125	.01632	.02637	.02662	19.874	1.5690	.04057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99469**	**.82029**	**.02416**	**1.2740**	**.02095**	F **1025.0**	**.03277**
Stddev	.01832	.00139	.00028	.0097	.00038	6.2	.00101
%RSD	1.8416	.16994	1.1777	.76166	1.8183	.60816	3.0760
#1	.99495	.82012	.02385	1.2776	.02138	1023.1	.03194
#2	.97624	.82176	.02422	1.2630	.02065	1032.0	.03249
#3	1.0129	.81899	.02442	1.2814	.02081	1020.0	.03390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044703 Acquired: 2/18/2011 12:24:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment: WG356852-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **17.781**	**5.9938**	F **-166.75**	**.02489**	**.01384**	**36.472**	**.02427**
Stddev	12.063	.0359	1.80	.00043	.00356	.164	.00029
%RSD	67.843	.59932	1.0818	1.7376	25.709	.44943	1.2026
#1	22.387	5.9843	-167.11	.02440	.01649	36.661	.02458
#2	26.863	5.9635	-164.79	.02506	.01524	36.384	.02422
#3	4.0936	6.0335	-168.34	.02521	.00980	36.372	.02400
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02778**	**.06841**	**.01674**	**.05986**	**.04818**	**3.8133**
Stddev	.00009	.00223	.00013	.00034	.00026	.1750
%RSD	.33588	3.2668	.75267	.56093	.54129	4.5892
#1	.02783	.06729	.01675	.05976	.04809	3.8103
#2	.02784	.06696	.01685	.06024	.04797	3.6398
#3	.02767	.07099	.01660	.05959	.04847	3.9898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76664.**	**50598.**
Stddev	917.	1209.
%RSD	1.1959	2.3902
#1	76685.	50370.
#2	77570.	49518.
#3	75737.	51905.

Approved: February 21, 2011

Sample Name: L1102044704 Acquired: 2/18/2011 12:27:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment: WG356852-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01131**	**8.6312**	**.01695**	**.05190**	**.08668**	**.00183**	**1.3305**
Stddev	.00036	.1133	.00133	.00126	.00170	.00004	.0224
%RSD	3.2034	1.3132	7.8294	2.4288	1.9630	2.2688	1.6849
#1	.01142	8.5522	.01748	.05076	.08538	.00180	1.3053
#2	.01161	8.5802	.01544	.05168	.08606	.00180	1.3384
#3	.01091	8.7610	.01794	.05325	.08861	.00187	1.3480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**.01504**	**.02404**	**.02648**	**16.772**	**1.5342**	**.03602**
Stddev	.00013	.00033	.00170	.00100	.252	.0347	.00197
%RSD	9.1411	2.2274	7.0691	3.7700	1.5019	2.2582	5.4658
#1	.00134	.01478	.02331	.02535	16.535	1.5617	.03481
#2	.00136	.01492	.02283	.02681	16.745	1.5457	.03829
#3	.00157	.01542	.02598	.02726	17.037	1.4953	.03496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97745**	**.65243**	**.02799**	**1.3343**	**.02168**	F **1011.2**	**.03480**
Stddev	.01387	.01218	.00091	.0269	.00020	20.8	.00220
%RSD	1.4188	1.8673	3.2504	2.0128	.90921	2.0599	6.3311
#1	.96305	.64078	.02699	1.3034	.02148	988.88	.03395
#2	.99072	.65142	.02820	1.3471	.02169	1014.8	.03730
#3	.97857	.66508	.02877	1.3523	.02188	1030.1	.03315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044704 Acquired: 2/18/2011 12:27:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment: WG356852-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-22.168**	**6.7114**	F **-180.70**	**.03052**	**.01381**	**37.406**	**.02408**
Stddev	16.434	.1451	5.31	.00144	.00432	.775	.00033
%RSD	74.134	2.1625	2.9412	4.7181	31.282	2.0730	1.3586
#1	-26.188	6.6443	-174.70	.02908	.01193	36.530	.02395
#2	-36.218	6.6120	-182.57	.03196	.01075	37.685	.02383
#3	-4.0966	6.8780	-184.82	.03052	.01876	38.004	.02445
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02867**	**.05887**	**.01732**	**.05477**	**.05099**	**3.7190**
Stddev	.00051	.00053	.00128	.00092	.00126	.3932
%RSD	1.7648	.90225	7.4002	1.6878	2.4699	10.571
#1	.02818	.05872	.01586	.05397	.04976	3.4373
#2	.02864	.05843	.01790	.05455	.05092	3.5516
#3	.02919	.05946	.01822	.05578	.05228	4.1681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77681.**	**55072.**
Stddev	60.	204.
%RSD	.07679	.37039
#1	77693.	55072.
#2	77616.	55276.
#3	77734.	54868.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 12:31:31 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39029**	**9.6354**	**.40696**	**.48687**	**1.0037**	**.04799**	**10.039**
Stddev	.00204	.0157	.00310	.00031	.0006	.00015	.028
%RSD	.52224	.16307	.76226	.06396	.05917	.31871	.27861
#1	.38799	9.6512	.41005	.48723	1.0031	.04790	10.008
#2	.39188	9.6197	.40701	.48667	1.0039	.04790	10.061
#3	.39099	9.6354	.40384	.48672	1.0042	.04817	10.048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05037**	**.20249**	**.48017**	**.50511**	**4.0168**	**50.075**	**1.0069**
Stddev	.00010	.00019	.00132	.00053	.0189	.142	.0042
%RSD	.19757	.09493	.27505	.10454	.47117	.28439	.41434
#1	.05025	.20269	.47994	.50474	3.9953	50.010	1.0049
#2	.05043	.20231	.47899	.50488	4.0307	49.976	1.0042
#3	.05042	.20248	.48160	.50572	4.0245	50.238	1.0117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9738**	**.50446**	**1.0169**	**50.259**	**.50793**	F **20.045**	**.50256**
Stddev	.0258	.00017	.0027	.104	.00064	13.288	.00054
%RSD	.25897	.03434	.26693	.20667	.12513	66.294	.10707
#1	9.9922	.50426	1.0188	50.152	.50759	7.6012	.50245
#2	9.9443	.50458	1.0182	50.266	.50866	34.042	.50314
#3	9.9849	.50453	1.0138	50.360	.50753	18.491	.50208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 12:31:31 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.598**	**10.122**	F **11.704**	**1.2264**	**.40432**	F **4.2733**	**1.0138**
Stddev	8.650	.083	1.016	.0009	.00454	.2298	.0019
%RSD	19.395	.82126	8.6797	.07641	1.1217	5.3766	.19030
#1	-52.053	10.155	10.550	1.2255	.40888	4.2549	1.0117
#2	-46.627	10.027	12.098	1.2264	.40427	4.5117	1.0140
#3	-35.115	10.182	12.464	1.2274	.39981	4.0533	1.0156
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0118**	**1.0073**	**.50789**	**.96971**	**.99668**	F **4.7898**
Stddev	.0009	.0008	.00191	.00105	.00133	.3686
%RSD	.09092	.08014	.37664	.10823	.13362	7.6962
#1	1.0128	1.0065	.51002	.97080	.99540	4.3716
#2	1.0110	1.0074	.50633	.96871	.99657	4.9303
#3	1.0115	1.0081	.50731	.96963	.99806	5.0676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74116.**	**54677.**
Stddev	347.	126.
%RSD	.46770	.22987
#1	74451.	54547.
#2	74138.	54798.
#3	73759.	54686.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 12:35:02 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00260**	**.00131**	**.00000**	**.00017**	**.00005**	**-.00895**
Stddev	.00087	.00326	.00149	.00052	.00010	.00002	.00766
%RSD	91.292	125.30	113.37	18568.	58.721	48.657	85.567
#1	.00142	.00331	.00165	-.00046	.00006	.00003	-.00303
#2	-.00005	.00545	.00260	.00056	.00025	.00007	-.00623
#3	.00149	-.00095	-.00031	-.00009	.00019	.00005	-.01760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00001**	**-.00100**	**-.00064**	**.00428**	**-.05008**	**-.00289**
Stddev	.00007	.00005	.00071	.00041	.00286	.01620	.00093
%RSD	112.58	407.96	71.177	64.528	66.984	32.345	32.136
#1	.00000	-.00004	-.00058	-.00094	.00212	-.03338	-.00278
#2	-.00005	-.00005	-.00061	-.00017	.00318	-.06573	-.00202
#3	-.00015	.00005	-.00183	-.00080	.00753	-.05112	-.00387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00409**	**-.00004**	**.00038**	**.01072**	**.00059**	F **2.3882**	**.00187**
Stddev	.02234	.00033	.00022	.00089	.00045	5.6702	.00059
%RSD	546.34	902.83	58.196	8.3204	76.927	237.43	31.519
#1	.02207	-.00035	.00028	.01174	.00092	-.51070	.00197
#2	.01113	-.00007	.00064	.01036	.00007	-1.2465	.00124
#3	-.02093	.00031	.00024	.01007	.00076	8.9218	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 12:35:02 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-36.224**	**-.05185**	F **3.3526**	**-.00208**	**.00652**	**-.18495**	**.00041**
Stddev	7.204	.06955	3.2366	.00135	.00656	.10569	.00009
%RSD	19.887	134.14	96.540	64.785	100.66	57.144	23.069
#1	-40.243	.01510	1.1402	-.00132	.01312	-.22852	.00030
#2	-27.908	-.12374	1.8502	-.00364	.00645	-.26190	.00045
#3	-40.523	-.04690	7.0673	-.00129	-.00001	-.06444	.00047
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00174**	**.00068**	**-.00001**	**.00007**	F **.61018**
Stddev	.00010	.00173	.00146	.00046	.00002	.36804
%RSD	242.97	99.502	215.44	3275.8	30.347	60.316
#1	.00007	.00057	.00154	-.00042	.00009	.20289
#2	-.00012	.00092	-.00101	-.00011	.00006	.70876
#3	-.00006	.00372	.00151	.00049	.00005	.91888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75213.**	**54339.**
Stddev	419.	629.
%RSD	.55700	1.1574
#1	75548.	54042.
#2	75347.	53914.
#3	74743.	55062.

Approved: February 21, 2011

Sample Name: L1102044706 Acquired: 2/18/2011 12:38:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**20.045**	**.00896**	**.02203**	**.01996**	**.00069**	**.29628**
Stddev	.00065	.113	.00205	.00130	.00026	.00002	.00523
%RSD	83.733	.56595	22.871	5.8905	1.3143	2.3087	1.7658
#1	.00139	20.159	.00680	.02111	.02011	.00070	.30232
#2	.00010	19.932	.00919	.02148	.02011	.00067	.29349
#3	.00082	20.043	.01088	.02352	.01965	.00071	.29304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00480**	**.04156**	**.03372**	**60.892**	**.42997**	**.01392**
Stddev	.00009	.00013	.00154	.00025	.132	.00963	.00241
%RSD	99.923	2.7485	3.7074	.74538	.21596	2.2407	17.272
#1	-.00019	.00486	.04321	.03344	60.803	.42860	.01117
#2	-.00001	.00490	.04016	.03393	60.830	.42109	.01562
#3	-.00007	.00465	.04130	.03378	61.043	.44022	.01498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.85362**	**.05573**	**.00055**	**.01127**	**.01889**	**425.95**	**.02135**
Stddev	.03396	.00021	.00014	.01378	.00047	3.54	.00015
%RSD	3.9780	.36988	25.507	122.24	2.4742	.83141	.71962
#1	.82747	.05550	.00039	.02558	.01836	428.96	.02117
#2	.89200	.05586	.00066	-.00191	.01922	426.84	.02144
#3	.84140	.05585	.00059	.01014	.01910	422.05	.02144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044706 Acquired: 2/18/2011 12:38:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-17.323**	**2.8496**	F **-87.332**	**-.00191**	**.00346**	**18.271**	**.00162**
Stddev	12.600	.0253	3.557	.00061	.00214	.194	.00027
%RSD	72.734	.88938	4.0727	32.139	61.791	1.0596	16.714
#1	-3.6999	2.8695	-90.079	-.00261	.00100	18.486	.00136
#2	-28.557	2.8583	-88.604	-.00147	.00485	18.215	.00160
#3	-19.712	2.8210	-83.315	-.00164	.00452	18.111	.00190
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00271**	**.05067**	**.00683**	**.10040**	**.01827**	**19.751**
Stddev	.00019	.00093	.00125	.00114	.00018	.570
%RSD	7.1979	1.8312	18.289	1.1307	.96078	2.8841
#1	.00254	.05175	.00712	.10167	.01810	20.187
#2	.00266	.05012	.00546	.10006	.01827	19.960
#3	.00292	.05016	.00791	.09947	.01845	19.107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76759.**	**53459.**
Stddev	1146.	285.
%RSD	1.4927	.53367
#1	75438.	53184.
#2	77480.	53754.
#3	77359.	53441.

Approved: February 21, 2011

Sample Name: L1102044706PS Acquired: 2/18/2011 12:42:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment: WG356945-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20899**	**23.950**	**.22066**	**1.0649**	**.52838**	**.02609**	**5.3855**
Stddev	.00245	.400	.00063	.0155	.00290	.00040	.0122
%RSD	1.1724	1.6697	.28741	1.4597	.54868	1.5363	.22601
#1	.20872	23.860	.22065	1.0599	.52534	.02591	5.3800
#2	.20668	23.604	.22130	1.0525	.52870	.02581	5.3772
#3	.21156	24.388	.22003	1.0823	.53111	.02655	5.3995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02642**	**.11014**	**.29008**	**.29554**	**61.903**	**26.054**	**.53145**
Stddev	.00010	.00056	.00388	.00224	.334	.231	.00654
%RSD	.37076	.50406	1.3373	.75787	.54016	.88481	1.2302
#1	.02638	.10968	.28871	.29310	61.570	25.808	.52421
#2	.02635	.10998	.28707	.29600	61.898	26.090	.53693
#3	.02653	.11076	.29446	.29751	62.239	26.265	.53320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.9888**	**.30877**	**.53251**	**26.390**	**.28140**	**436.75**	**.27938**
Stddev	.0357	.00108	.00274	.159	.00232	7.83	.00446
%RSD	.59635	.34936	.51547	.60190	.82618	1.7936	1.5963
#1	5.9522	.30780	.52978	26.223	.27898	441.27	.27998
#2	5.9905	.30858	.53247	26.407	.28161	441.28	.27465
#3	6.0235	.30993	.53527	26.539	.28361	427.71	.28351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044706PS Acquired: 2/18/2011 12:42:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment: WG356945-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-16.382**	**8.3658**	F **-93.576**	**.62643**	**.22036**	F **322.85**	**.00222**
Stddev	7.583	.1157	.894	.00208	.00494	1.77	.00012
%RSD	46.289	1.3830	.95535	.33266	2.2421	.54904	5.4762
#1	-7.6683	8.2434	-92.656	.62421	.21547	322.07	.00235
#2	-21.486	8.4733	-94.441	.62676	.22024	321.60	.00210
#3	-19.991	8.3807	-93.631	.62833	.22535	324.88	.00222
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000		9.0000			90.000	
Low Limit	-.00400		-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51062**	**.55956**	**.26979**	**.60664**	**.54470**	**33.709**
Stddev	.00282	.00209	.00416	.00723	.00228	1.113
%RSD	.55167	.37297	1.5403	1.1926	.41781	3.3023
#1	.50830	.55783	.26639	.60438	.54276	32.825
#2	.50979	.55897	.26855	.60080	.54414	33.343
#3	.51375	.56187	.27442	.61473	.54721	34.959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75195.**	**54268.**
Stddev	271.	401.
%RSD	.35997	.73981
#1	75001.	54489.
#2	75080.	54511.
#3	75504.	53805.

Approved: February 21, 2011

Sample Name: L1102044706SDL Acquired: 2/18/2011 12:45:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG356945-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**3.9550**	**.00291**	**.00425**	**.00381**	**.00015**	**.05320**
Stddev	.0004	.0829	.00242	.00096	.00032	.00002	.01266
%RSD	10433.	2.0969	83.054	22.496	8.3241	14.894	23.791
#1	-.00002	3.9219	.00238	.00384	.00417	.00016	.05054
#2	.00036	3.8938	.00080	.00357	.00360	.00016	.06697
#3	-.00035	4.0494	.00555	.00534	.00365	.00012	.04208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00092**	**.00760**	**.00659**	**12.105**	**.06984**	**.00012**
Stddev	.00007	.00021	.00036	.00075	.027	.03411	.00201
%RSD	125.31	22.353	4.7694	11.345	.22611	48.841	1708.3
#1	-.00012	.00078	.00756	.00642	12.110	.06797	-.00214
#2	-.00007	.00082	.00797	.00741	12.075	.03671	.00079
#3	.00002	.00116	.00725	.00595	12.129	.10485	.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17158**	**.01120**	**.00064**	**.02632**	**.00334**	**80.051**	**.00629**
Stddev	.02575	.00002	.00012	.01688	.00111	9.783	.00135
%RSD	15.005	.19956	18.762	64.147	33.090	12.221	21.458
#1	.16370	.01122	.00050	.02797	.00330	86.727	.00682
#2	.15069	.01118	.00069	.00867	.00447	84.605	.00730
#3	.20034	.01120	.00072	.04231	.00226	68.821	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044706SDL Acquired: 2/18/2011 12:45:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG356945-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-23.138**	**.43548**	F **-12.680**	**-.00306**	**.00081**	**2.9080**	**.00005**
Stddev	20.656	.03716	.629	.00237	.00296	.0559	.00006
%RSD	89.272	8.5335	4.9618	77.506	365.37	1.9214	124.82
#1	-43.359	.43028	-11.953	-.00558	-.00248	2.9414	.00011
#2	-23.982	.40120	-13.047	-.00274	.00327	2.8435	.00005
#3	-2.0731	.47497	-13.039	-.00086	.00165	2.9391	-.00001
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00986**	**.00218**	**.02007**	**.00448**	**3.8857**
Stddev	.00032	.00122	.00056	.00053	.00004	.1058
%RSD	58.218	12.356	25.586	2.6157	.99342	2.7228
#1	.00077	.01121	.00270	.01999	.00449	3.8321
#2	.00069	.00883	.00226	.01959	.00444	4.0076
#3	.00018	.00955	.00159	.02063	.00453	3.8175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76777.**	**54740.**
Stddev	252.	1106.
%RSD	.32764	2.0211
#1	76989.	55068.
#2	76499.	55646.
#3	76844.	53507.

Approved: February 21, 2011

Sample Name: L1102044706SDL Acquired: 2/18/2011 12:49:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 500 Custom ID2: Custom ID3:
Comment: WG356945-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.88866**	**.00087**	**.00025**	**.00128**	**.00005**	**-.00990**
Stddev	.00154	.01195	.00185	.00087	.00030	.00002	.01113
%RSD	613.67	1.3451	211.74	350.63	23.843	37.914	112.48
#1	.00023	.88317	-.00019	.00122	.00097	.00005	-.01282
#2	.00181	.88044	.00301	-.00046	.00127	.00003	.00241
#3	-.00128	.90237	-.00020	-.00002	.00158	.00007	-.01927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00052**	**.00107**	**.00153**	**2.5582**	**-.04055**	**-.00106**
Stddev	.00020	.00022	.00044	.00072	.0192	.06716	.00115
%RSD	129.93	41.726	41.586	46.867	.75005	165.63	108.57
#1	-.00021	.00076	.00156	.00233	2.5784	.02622	-.00063
#2	.00007	.00046	.00094	.00095	2.5403	-.03978	-.00018
#3	-.00033	.00034	.00070	.00132	2.5558	-.10809	-.00236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02590**	**.00241**	**-.00033**	**-.01675**	**.00000**	**15.058**	**-.00031**
Stddev	.03210	.00007	.00012	.01681	.0006	3.612	.00049
%RSD	123.93	2.8837	35.418	100.35	11221.	23.985	156.54
#1	-.00629	.00244	-.00020	.00240	-.00064	17.936	-.00065
#2	.02607	.00234	-.00043	-.02360	.00042	16.233	-.00054
#3	.05791	.00246	-.00035	-.02905	.00020	11.005	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044706SDL Acquired: 2/18/2011 12:49:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 500 Custom ID2: Custom ID3:
Comment: WG356945-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.2209**	F **-.05544**	**3.7041**	**-.00379**	**.00181**	**.10480**	**.00003**
Stddev	5.1882	.07094	2.2342	.00203	.00275	.20766	.00018
%RSD	122.92	127.96	60.317	53.406	151.99	198.15	580.98
#1	.70876	-.05627	4.4422	-.00608	.00378	-.12886	.00019
#2	-9.6338	.01591	1.1943	-.00221	-.00133	.26826	.00007
#3	-3.7375	-.12596	5.4759	-.00309	.00297	.17501	-.00016
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00114**	**.00243**	**.00409**	**.00156**	**1.0240**
Stddev	.00013	.00106	.00112	.00051	.00001	.0547
%RSD	84.798	93.599	45.944	12.537	.77576	5.3416
#1	.00021	.00018	.00334	.00439	.00156	1.0552
#2	.00000	.00094	.00119	.00350	.00157	1.0559
#3	.00025	.00228	.00278	.00439	.00155	.96086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73390.**	**52204.**
Stddev	244.	532.
%RSD	.33298	1.0181
#1	73673.	52202.
#2	73253.	52737.
#3	73245.	51674.

Approved: February 21, 2011

Sample Name: L1102044707 Acquired: 2/18/2011 12:53:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**17.615**	**.00807**	**.02135**	**.02137**	**.00077**	**.32493**
Stddev	.00070	.159	.00197	.00123	.00009	.00001	.01219
%RSD	67.955	.90521	24.440	5.7591	.42652	1.7525	3.7501
#1	.00024	17.431	.01030	.02010	.02128	.00078	.31989
#2	.00130	17.694	.00656	.02140	.02146	.00075	.31608
#3	.00156	17.719	.00734	.02255	.02137	.00078	.33883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00664**	**.03728**	**.03251**	**57.760**	**.44973**	**.01191**
Stddev	.00004	.00010	.00031	.00103	.176	.04600	.00273
%RSD	102.98	1.5600	.83753	3.1657	.30420	10.228	22.963
#1	-.00008	.00663	.03699	.03337	57.557	.39762	.01470
#2	-.00001	.00654	.03725	.03137	57.856	.48472	.01179
#3	-.00002	.00675	.03761	.03280	57.867	.46684	.00923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.92280**	**.09406**	**-.00029**	**-.01588**	**.01870**	**438.97**	**.02018**
Stddev	.00682	.00038	.00008	.01199	.00038	9.30	.00170
%RSD	.73861	.40556	28.717	75.554	2.0451	2.1194	8.4157
#1	.91532	.09383	-.00022	-.00275	.01838	430.82	.01868
#2	.92867	.09385	-.00038	-.01862	.01859	436.97	.02202
#3	.92441	.09450	-.00027	-.02626	.01912	449.11	.01983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044707 Acquired: 2/18/2011 12:53:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 20 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-18.385**	**2.5488**	F **-76.568**	**-.00402**	**.00256**	**14.573**	**.00166**
Stddev	5.240	.0523	2.270	.00118	.00138	.378	.00045
%RSD	28.502	2.0535	2.9640	29.417	53.772	2.5906	26.976
#1	-15.796	2.4884	-73.950	-.00334	.00124	14.607	.00209
#2	-24.416	2.5813	-77.759	-.00538	.00246	14.180	.00119
#3	-14.943	2.5766	-77.993	-.00333	.00399	14.933	.00170
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00287**	**.03920**	**.00649**	**.09313**	**.02655**	**18.221**
Stddev	.00018	.00112	.00137	.00059	.00020	.435
%RSD	6.3737	2.8678	21.072	.63541	.75618	2.3874
#1	.00270	.03801	.00746	.09246	.02642	18.710
#2	.00306	.03936	.00709	.09335	.02645	18.075
#3	.00283	.04024	.00493	.09358	.02678	17.878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75627.**	**51680.**
Stddev	300.	502.
%RSD	.39695	.97116
#1	75657.	52237.
#2	75912.	51262.
#3	75313.	51542.

Approved: February 21, 2011

Sample Name: L1102044707 Acquired: 2/18/2011 12:56:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**3.6559**	**.00353**	**.00285**	**.00456**	**.00016**	**.06494**
Stddev	.00037	.0528	.00138	.00082	.00019	.00003	.01147
%RSD	29.241	1.4435	39.214	28.835	4.2432	22.022	17.655
#1	.00142	3.5978	.00378	.00248	.00437	.00019	.06493
#2	.00152	3.7008	.00204	.00229	.00456	.00015	.05349
#3	.00084	3.6691	.00477	.00380	.00476	.00013	.07642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00168**	**.00702**	**.00600**	**12.027**	**.07901**	**.00316**
Stddev	.00009	.00010	.00091	.00040	.086	.03893	.00406
%RSD	43.336	6.2096	13.009	6.6718	.71182	49.274	128.63
#1	-.00016	.00161	.00759	.00577	11.943	.12284	.00242
#2	-.00030	.00180	.00751	.00646	12.114	.04844	.00754
#3	-.00014	.00164	.00597	.00578	12.024	.06575	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19589**	**.01956**	**-.00007**	**-.00582**	**.00313**	**87.186**	**.00471**
Stddev	.00708	.00055	.00015	.01152	.00085	7.197	.00130
%RSD	3.6150	2.8258	197.97	197.91	27.109	8.2546	27.675
#1	.19885	.02015	-.00004	-.01597	.00320	80.351	.00349
#2	.20101	.01906	-.00023	.00670	.00225	94.697	.00455
#3	.18781	.01946	.00005	-.00818	.00395	86.511	.00608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044707 Acquired: 2/18/2011 12:56:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-25.413**	**.34651**	F **-11.350**	**-.00225**	**.00138**	**2.3240**	**.00016**
Stddev	9.124	.03200	2.639	.00267	.00267	.2608	.00046
%RSD	35.904	9.2349	23.248	118.33	193.80	11.223	291.67
#1	-35.119	.32216	-12.999	.00075	.00202	2.4742	-.00030
#2	-24.111	.38276	-8.3066	-.00435	.00367	2.4749	.00061
#3	-17.010	.33463	-12.744	-.00315	-.00155	2.0228	.00015
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00701**	**.00213**	**.01906**	**.00470**	**4.0202**
Stddev	.00006	.00021	.00053	.00016	.00002	.1791
%RSD	9.5474	3.0627	24.968	.84441	.46013	4.4544
#1	.00062	.00725	.00166	.01916	.00471	4.2258
#2	.00055	.00684	.00271	.01887	.00468	3.9360
#3	.00067	.00695	.00204	.01915	.00472	3.8987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75477.**	**53582.**
Stddev	134.	464.
%RSD	.17732	.86551
#1	75400.	54027.
#2	75399.	53102.
#3	75631.	53618.

Approved: February 21, 2011

Sample Name: LRC Acquired: 2/18/2011 13:00:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**793.86**	F **-.01263**	**.00121**	**.00076**	**.00001**	**-.00894**
Stddev	.00063	21.89	.00092	.00135	.00045	.00000	.00801
%RSD	90.071	2.7574	7.3237	112.02	59.945	48.744	89.588
#1	.00002	768.84	-.01360	-.00028	.00024	.00001	-.00531
#2	.00082	803.27	-.01253	.00236	.00095	.00001	-.00339
#3	.00125	809.48	-.01175	.00155	.00108	.00000	-.01812
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-.01000				

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00076**	**-.00017**	**-.00052**	**.00722**	**-.02647**	**-.00216**
Stddev	.00009	.00023	.00079	.00027	.00585	.08367	.00251
%RSD	61.313	30.445	454.39	51.775	80.950	316.07	116.13
#1	-.00009	.00068	-.00037	-.00081	.00077	.05329	-.00500
#2	-.00010	.00103	.00070	-.00029	.00873	-.11357	-.00120
#3	-.00025	.00059	-.00084	-.00044	.01217	-.01914	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.00382**	**-.00042**	**.00234**	**-.00465**	F **-1223.4**	**.05280**
Stddev	.01604	.00040	.00082	.01333	.00042	29.5	.00738
%RSD	1843.9	10.330	192.95	570.77	9.0966	2.4074	13.983
#1	.01614	.00411	-.00137	-.00681	-.00488	-1252.8	.06046
#2	-.01571	.00337	.00001	.01763	-.00416	-1193.9	.05221
#3	-.00304	.00398	.00009	-.00381	-.00490	-1223.6	.04573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: LRC Acquired: 2/18/2011 13:00:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-21.656**	F **-1.0967**	F **19.726**	**-.01647**	F **-.03447**	**.59155**	**-.00014**
Stddev	21.361	.0109	.494	.00494	.00194	.19684	.00044
%RSD	98.638	.98973	2.5058	29.994	5.6230	33.275	323.59
#1	-40.930	-1.0843	19.159	-.01093	-.03631	.81245	.00010
#2	-25.346	-1.1015	20.066	-.02041	-.03464	.43476	.00014
#3	1.3099	-1.1043	19.954	-.01807	-.03245	.52745	-.00065
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000		81.000		
Low Limit	-.00400	-.00400	-.00400		-.01000		

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00120**	**.00364**	**-.00011**	F **-.01863**	**1.5236**
Stddev	.00014	.00145	.00313	.00019	.00094	.1998
%RSD	1498.0	120.85	86.194	176.75	5.0210	13.115
#1	.00013	-.00166	.00006	.00000	-.01758	1.3201
#2	-.00014	-.00235	.00496	-.00033	-.01893	1.5313
#3	-.00002	.00042	.00590	.00001	-.01937	1.7195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					45.000	
Low Limit					-.01000	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**71993.**	**53274.**
Stddev	400.	509.
%RSD	.55627	.95622
#1	72180.	53806.
#2	72265.	53227.
#3	71533.	52790.

Approved: February 21, 2011

Sample Name: L1102043202 Acquired: 2/18/2011 13:04:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01189**	**25.746**	**.05684**	**.35669**	**.66417**	**.01665**	**366.03**
Stddev	.00065	.212	.00117	.00443	.00193	.00013	1.03
%RSD	5.4559	.82198	2.0564	1.2425	.29124	.78491	.28183
#1	.01114	25.504	.05674	.35163	.66345	.01650	364.87
#2	.01226	25.835	.05572	.35986	.66637	.01671	366.86
#3	.01226	25.898	.05805	.35858	.66270	.01674	366.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00742**	**.02969**	**.25498**	**1.5864**	**96.717**	**4.9550**	**.04429**
Stddev	.00004	.00036	.00181	.0032	.297	.0292	.00409
%RSD	.49532	1.2203	.70903	.20063	.30721	.58870	9.2371
#1	.00739	.02937	.25290	1.5848	96.520	4.9827	.04095
#2	.00740	.02962	.25619	1.5843	97.059	4.9577	.04306
#3	.00746	.03008	.25585	1.5900	96.572	4.9246	.04886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**104.59**	**2.8386**	**.02050**	**1.6965**	**.13841**	F **4706.4**	**2.2997**
Stddev	.30	.0080	.00045	.0044	.00049	1.8	.0069
%RSD	.28969	.28152	2.2040	.26170	.35359	.03787	.30171
#1	104.26	2.8325	.02014	1.6921	.13877	4707.6	2.3077
#2	104.85	2.8476	.02035	1.7010	.13785	4707.3	2.2957
#3	104.65	2.8356	.02100	1.6965	.13860	4704.4	2.2957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102043202 Acquired: 2/18/2011 13:04:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.392**	F **431.36**	F **-2613.9**	**.01844**	**.00920**	F **318.20**	**.11117**
Stddev	24.237	.63	3.1	.00043	.00042	1.76	.00031
%RSD	57.174	.14533	.11762	2.3397	4.5717	.55465	.27881
#1	-49.238	430.64	-2611.3	.01804	.00919	319.46	.11144
#2	-62.471	431.67	-2617.3	.01839	.00878	318.95	.11125
#3	-15.468	431.76	-2613.1	.01890	.00962	316.18	.11083
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.59094**	**.83011**	**.02531**	**.79304**	**6.6593**	F **67.391**
Stddev	.00182	.00406	.00093	.00977	.0072	.407
%RSD	.30733	.48873	3.6630	1.2325	.10855	.60359
#1	.58964	.82818	.02461	.78178	6.6518	66.938
#2	.59302	.83477	.02636	.79791	6.6598	67.508
#3	.59017	.82737	.02495	.79941	6.6663	67.726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**69450.**	**52106.**
Stddev	121.	233.
%RSD	.17418	.44754
#1	69470.	52375.
#2	69559.	51981.
#3	69320.	51962.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 13:08:09 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40058**	**10.041**	**.40593**	**.49818**	**1.0091**	**.04950**	**10.161**
Stddev	.00721	.141	.00294	.00902	.0015	.00043	.021
%RSD	1.8000	1.4012	.72466	1.8114	.14739	.86973	.20647
#1	.40510	10.098	.40312	.50279	1.0089	.04975	10.140
#2	.39226	9.8804	.40568	.48779	1.0078	.04901	10.182
#3	.40436	10.144	.40899	.50398	1.0107	.04976	10.162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05093**	**.20321**	**.49700**	**.50589**	**4.0475**	**50.621**	**1.0149**
Stddev	.00018	.00030	.00497	.00030	.0088	.096	.0018
%RSD	.34508	.14748	1.0010	.05871	.21649	.18876	.17847
#1	.05101	.20322	.49989	.50609	4.0575	50.517	1.0167
#2	.05106	.20351	.49126	.50602	4.0411	50.705	1.0131
#3	.05073	.20291	.49986	.50555	4.0440	50.642	1.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.138**	**.50711**	**1.0140**	**50.825**	**.50855**	F **4.8984**	**.51013**
Stddev	.024	.00180	.0008	.157	.00143	5.0152	.00143
%RSD	.23619	.35587	.08039	.30880	.28054	102.38	.28034
#1	10.140	.50527	1.0134	50.839	.50720	.65455	.51043
#2	10.160	.50887	1.0149	50.662	.51004	3.6080	.51138
#3	10.113	.50718	1.0137	50.975	.50841	10.433	.50857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 13:08:09 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.2514**	**10.267**	**10.355**	**1.2254**	**.40749**	F **4.4794**	**1.0181**
Stddev	16.186	.032	.510	.0018	.00299	.2231	.0019
%RSD	196.16	.31468	4.9214	.14257	.73345	4.9804	.18902
#1	-22.158	10.234	10.845	1.2240	.40953	4.2415	1.0159
#2	-12.111	10.270	10.392	1.2273	.40406	4.5128	1.0191
#3	9.5152	10.298	9.8279	1.2247	.40888	4.6839	1.0193
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000					5.0000	
Range	-10.000%					-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0151**	**1.0152**	**.51208**	**.99438**	**1.0062**	F **4.6553**
Stddev	.0047	.0030	.00069	.01304	.0013	.2628
%RSD	.46487	.29181	.13566	1.3113	.12889	5.6446
#1	1.0109	1.0119	.51237	1.0021	1.0047	4.3721
#2	1.0202	1.0162	.51258	.97932	1.0070	4.7028
#3	1.0141	1.0176	.51129	1.0017	1.0069	4.8912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**71965.**	**51638.**
Stddev	346.	303.
%RSD	.48082	.58675
#1	72357.	51436.
#2	71702.	51987.
#3	71837.	51492.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 13:11:41 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.01295**	**-.00040**	**.00100**	**.00124**	**.00002**	**-.00054**
Stddev	.00039	.00136	.00091	.00062	.00019	.00002	.01078
%RSD	107.73	10.518	229.59	62.187	15.682	90.524	1986.3
#1	.00060	.01452	-.00141	.00171	.00117	.00003	.00535
#2	.00057	.01208	-.00010	.00073	.00145	.00003	.00600
#3	-.00009	.01226	.00033	.00056	.00108	.00000	-.01298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00001**	**.00019**	**-.00056**	**.00488**	**.00294**	**-.00286**
Stddev	.00019	.00015	.00011	.00047	.00053	.05602	.00112
%RSD	194.38	1439.2	58.144	83.902	10.834	1908.2	39.282
#1	-.00011	-.00006	.00010	-.00002	.00509	.00700	-.00339
#2	-.00028	.00016	.00016	-.00077	.00526	.05681	-.00157
#3	.00010	-.00013	.00031	-.00090	.00427	-.05501	-.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00605**	**.00086**	**.00086**	**.01352**	**.00009**	F **-.98193**	**.00151**
Stddev	.02258	.00027	.00030	.00477	.00036	2.6529	.00219
%RSD	373.27	31.666	35.318	35.280	406.09	270.17	144.64
#1	.00159	.00054	.00057	.01807	-.00015	-3.9148	.00378
#2	.03053	.00100	.00117	.00856	.00051	1.2502	-.00058
#3	-.01397	.00102	.00083	.01392	-.00009	-.28122	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 13:11:41 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **6.0775**	F **-.03510**	F **-.01441**	**.00266**	**.00217**	**.19149**	**.00065**
Stddev	8.5540	.01800	2.2624	.00199	.00425	.03865	.00037
%RSD	140.75	51.283	15702.	74.600	195.83	20.184	56.296
#1	13.597	-.05523	2.4706	.00044	.00190	.15779	.00045
#2	-3.2287	-.02952	-.55904	.00328	.00655	.23368	.00043
#3	7.8640	-.02055	-1.9548	.00427	-.00194	.18301	.00108
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00113**	**.00080**	**-.00024**	**.00015**	F **.43544**
Stddev	.00003	.00029	.00106	.00047	.00009	.10065
%RSD	11.499	25.812	132.38	198.95	58.418	23.115
#1	.00029	-.00132	.00090	.00024	.00009	.55095
#2	.00023	-.00127	.00181	-.00071	.00011	.38879
#3	.00028	-.00079	-.00031	-.00024	.00025	.36657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**71317.**	**50743.**
Stddev	722.	212.
%RSD	1.0123	.41817
#1	71943.	50988.
#2	71482.	50614.
#3	70527.	50628.

Approved: February 21, 2011

Sample Name: L1102043203 Acquired: 2/18/2011 13:15:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00421**	**4.5012**	**.04467**	**.01611**	**.02598**	**.00110**	**3.8009**
Stddev	.00068	.0079	.00101	.00082	.00020	.00004	.0255
%RSD	16.212	.17502	2.2517	5.1096	.76526	3.5559	.67110
#1	.00435	4.5103	.04569	.01706	.02607	.00108	3.7852
#2	.00347	4.4963	.04463	.01565	.02575	.00115	3.8303
#3	.00481	4.4970	.04368	.01561	.02612	.00108	3.7871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.01033**	**.20262**	**.18380**	**35.930**	**1.1121**	**-.00185**
Stddev	.00003	.00009	.00127	.00078	.050	.0080	.00216
%RSD	4.6821	.88055	.62482	.42209	.13998	.72385	116.91
#1	.00066	.01043	.20117	.18459	35.924	1.1038	.00049
#2	.00060	.01027	.20353	.18376	35.882	1.1199	-.00377
#3	.00063	.01028	.20315	.18304	35.983	1.1127	-.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.60187**	**.03273**	**.00436**	**.86818**	**.00830**	**737.72**	**.04751**
Stddev	.02062	.00083	.00003	.00913	.00049	3.00	.00253
%RSD	3.4252	2.5345	.74964	1.0515	5.9628	.40598	5.3227
#1	.58927	.03299	.00437	.85967	.00774	737.73	.04492
#2	.62566	.03180	.00439	.86706	.00867	740.70	.04765
#3	.59068	.03339	.00432	.87782	.00848	734.71	.04997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102043203 Acquired: 2/18/2011 13:15:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-21.861**	**8.0697**	F **-147.66**	**.00923**	**.00412**	F **246.04**	**.00596**
Stddev	2.516	.0677	1.58	.00206	.00144	1.66	.00025
%RSD	11.510	.83939	1.0670	22.277	34.853	.67430	4.2624
#1	-20.738	8.0064	-147.77	.01159	.00302	247.78	.00625
#2	-24.743	8.1411	-149.18	.00782	.00360	244.47	.00576
#3	-20.102	8.0616	-146.03	.00828	.00575	245.88	.00588
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000		9.0000			90.000	
Low Limit	-.00400		-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01923**	**.10543**	**.01393**	**.53115**	**.20693**	F **73.403**
Stddev	.00024	.00543	.00051	.00058	.00047	1.795
%RSD	1.2618	5.1492	3.6755	.10861	.22729	2.4453
#1	.01928	.11115	.01415	.53049	.20744	75.380
#2	.01896	.10477	.01335	.53156	.20682	72.956
#3	.01944	.10036	.01430	.53141	.20652	71.874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74115.**	**53330.**
Stddev	352.	114.
%RSD	.47467	.21289
#1	73893.	53212.
#2	73932.	53439.
#3	74521.	53341.

Approved: February 21, 2011

Sample Name: L1102043204 Acquired: 2/18/2011 13:18:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**8.7153**	**.01184**	**.00676**	**.05491**	**.00093**	**2.9129**
Stddev	.00024	.0768	.00238	.00118	.00029	.00003	.0012
%RSD	8.7169	.88078	20.056	17.482	.53474	3.2712	.04131
#1	.00303	8.6332	.01020	.00809	.05495	.00096	2.9116
#2	.00257	8.7275	.01076	.00638	.05459	.00090	2.9140
#3	.00268	8.7853	.01457	.00583	.05517	.00094	2.9130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00358**	**.03187**	**.04394**	**17.278**	**1.4507**	**.00620**
Stddev	.00013	.00010	.00068	.00047	.048	.0538	.00083
%RSD	58.739	2.6968	2.1398	1.0613	.27688	3.7114	13.344
#1	.00007	.00368	.03207	.04387	17.333	1.4741	.00716
#2	.00027	.00357	.03111	.04351	17.256	1.3891	.00574
#3	.00030	.00349	.03242	.04444	17.246	1.4888	.00570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.81238**	**.03658**	**.00162**	**.38646**	**.00939**	**541.76**	**.02214**
Stddev	.02314	.00030	.00040	.01302	.00050	1.87	.00350
%RSD	2.8488	.82418	24.929	3.3690	5.3002	.34431	15.792
#1	.82642	.03665	.00178	.37617	.00955	539.61	.01836
#2	.82505	.03625	.00116	.38210	.00978	542.75	.02281
#3	.78567	.03684	.00192	.40110	.00883	542.93	.02526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102043204 Acquired: 2/18/2011 13:18:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-13.732**	**6.3357**	F **-120.31**	**.00174**	**.00375**	F **512.32**	**.00266**
Stddev	16.980	.0324	.63	.00126	.00195	7.36	.00016
%RSD	123.65	.51117	.52499	72.412	52.044	1.4367	6.1000
#1	-6.2114	6.3676	-120.53	.00047	.00150	519.85	.00252
#2	-33.174	6.3028	-120.81	.00299	.00480	511.95	.00263
#3	-1.8108	6.3367	-119.60	.00178	.00495	505.15	.00284
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000		9.0000			90.000	
Low Limit	-.00400		-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02023**	**.28784**	**.00267**	**.09689**	**.04024**	**34.376**
Stddev	.00010	.00882	.00149	.00168	.00010	.696
%RSD	.49905	3.0649	55.855	1.7313	.24024	2.0252
#1	.02035	.29102	.00265	.09495	.04016	34.709
#2	.02017	.29463	.00118	.09785	.04035	33.576
#3	.02018	.27787	.00416	.09786	.04021	34.843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74114.**	**53034.**
Stddev	199.	244.
%RSD	.26801	.45927
#1	74144.	53315.
#2	73901.	52904.
#3	74295.	52883.

Approved: February 21, 2011

Sample Name: L1102036510 Acquired: 2/18/2011 13:22:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**22.913**	**.02941**	**.01683**	**.46125**	**.00200**	**113.49**
Stddev	.00024	.243	.00125	.00038	.00529	.00002	1.18
%RSD	17.287	1.0625	4.2602	2.2604	1.1459	.82768	1.0432
#1	.00167	22.633	.02902	.01715	.45546	.00198	112.39
#2	.00133	23.075	.02841	.01693	.46248	.00202	113.33
#3	.00121	23.031	.03082	.01641	.46582	.00200	114.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.02357**	**.03144**	**.12748**	**38.668**	**4.1349**	**.03877**
Stddev	.00011	.00068	.00087	.00182	.436	.0272	.00087
%RSD	6.2458	2.8876	2.7554	1.4283	1.1285	.65874	2.2534
#1	.00165	.02283	.03068	.12570	38.202	4.1164	.03860
#2	.00162	.02372	.03238	.12741	38.734	4.1221	.03799
#3	.00182	.02416	.03128	.12934	39.067	4.1662	.03972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.341**	**2.0792**	**.00132**	**.43843**	**.03533**	F **4218.9**	**.10814**
Stddev	.153	.0213	.00031	.00677	.00070	80.7	.00301
%RSD	1.1505	1.0238	23.369	1.5441	1.9776	1.9135	2.7845
#1	13.206	2.0579	.00098	.43149	.03453	4137.9	.10478
#2	13.308	2.0793	.00139	.44501	.03570	4219.3	.11061
#3	13.508	2.1004	.00158	.43879	.03577	4299.4	.10902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036510 Acquired: 2/18/2011 13:22:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-23.158**	F **140.06**	F **-569.21**	**.00108**	**.00268**	F **106.18**	**.00261**
Stddev	15.961	2.49	10.13	.00151	.00188	1.03	.00036
%RSD	68.923	1.7753	1.7796	140.36	70.222	.97309	13.590
#1	-20.057	137.63	-558.51	.00260	.00383	105.33	.00229
#2	-40.441	139.94	-570.48	.00105	.00051	105.87	.00299
#3	-8.9744	142.60	-578.65	-.00042	.00369	107.33	.00257
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20219**	**.06754**	**.00534**	**.06680**	**.21667**	**15.491**
Stddev	.00230	.00269	.00194	.00094	.00376	.573
%RSD	1.1356	3.9808	36.355	1.4077	1.7375	3.6968
#1	.20025	.06655	.00522	.06612	.21281	14.851
#2	.20159	.06549	.00347	.06640	.21685	15.666
#3	.20472	.07059	.00734	.06787	.22034	15.956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75334.**	**53469.**
Stddev	100.	94.
%RSD	.13288	.17636
#1	75218.	53402.
#2	75399.	53428.
#3	75383.	53577.

Approved: February 21, 2011

Sample Name: L1102036511 Acquired: 2/18/2011 13:26:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00260**	**29.276**	**.04015**	**.03142**	**.57078**	**.00313**	**285.57**
Stddev	.00044	.476	.00196	.00136	.00474	.00003	2.64
%RSD	16.995	1.6264	4.8795	4.3417	.83064	1.0588	.92289
#1	.00209	28.806	.04226	.03061	.56640	.00314	282.85
#2	.00278	29.264	.03839	.03065	.57011	.00310	285.75
#3	.00292	29.758	.03979	.03299	.57581	.00316	288.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00434**	**.02577**	**.05082**	**.36833**	**47.175**	**8.6505**	**.04534**
Stddev	.00004	.00034	.00039	.00459	.392	.0717	.00352
%RSD	.87923	1.3045	.76796	1.2470	.83086	.82931	7.7737
#1	.00429	.02549	.05041	.36316	46.800	8.5764	.04335
#2	.00437	.02568	.05086	.36993	47.144	8.6556	.04325
#3	.00434	.02614	.05119	.37192	47.582	8.7196	.04941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.018**	**3.1782**	**.00192**	**.18052**	**.05058**	F **8263.3**	**.31262**
Stddev	.184	.0284	.00016	.01584	.00017	81.6	.00402
%RSD	.87393	.89410	8.4243	8.7719	.33007	.98745	1.2850
#1	20.855	3.1476	.00177	.19135	.05049	8183.2	.30818
#2	20.982	3.1831	.00209	.18786	.05048	8260.2	.31600
#3	21.217	3.2038	.00190	.16235	.05078	8346.3	.31369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036511 Acquired: 2/18/2011 13:26:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-45.499**	F **356.97**	F **-1923.1**	**-.00039**	**.00187**	**81.673**	**.00523**
Stddev	6.269	4.87	24.7	.00184	.00087	1.205	.00034
%RSD	13.777	1.3637	1.2828	468.33	46.667	1.4752	6.5666
#1	-50.627	352.13	-1902.0	-.00216	.00089	80.468	.00483
#2	-47.360	356.90	-1917.2	-.00051	.00216	81.672	.00544
#3	-38.511	361.87	-1950.2	.00150	.00255	82.878	.00541
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23327**	**.08610**	**.00575**	**.07568**	**.41191**	**17.962**
Stddev	.00252	.00196	.00119	.00146	.00613	.491
%RSD	1.0813	2.2805	20.620	1.9347	1.4884	2.7356
#1	.23041	.08394	.00712	.07426	.40564	17.433
#2	.23422	.08777	.00511	.07561	.41220	18.047
#3	.23517	.08659	.00503	.07719	.41789	18.404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**72895.**	**54454.**
Stddev	702.	382.
%RSD	.96344	.70207
#1	73696.	54567.
#2	72602.	54767.
#3	72387.	54028.

Approved: February 21, 2011

Sample Name: L1102036512 Acquired: 2/18/2011 13:29:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**30.467**	**.03636**	**.02441**	**.54566**	**.00316**	**275.48**
Stddev	.00027	.211	.00210	.00121	.00545	.00002	3.18
%RSD	15.541	.69367	5.7859	4.9486	.99950	.61252	1.1561
#1	.00162	30.378	.03508	.02360	.54013	.00314	272.36
#2	.00208	30.315	.03520	.02383	.54581	.00318	275.35
#3	.00159	30.709	.03878	.02579	.55103	.00317	278.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00342**	**.02628**	**.05192**	**.19601**	**45.090**	**7.9614**	**.04189**
Stddev	.00008	.00061	.00068	.00373	.404	.0826	.00238
%RSD	2.3374	2.3166	1.3047	1.9028	.89564	1.0376	5.6830
#1	.00344	.02559	.05128	.19187	44.689	7.9298	.03914
#2	.00350	.02651	.05184	.19705	45.083	7.8992	.04315
#3	.00334	.02675	.05263	.19912	45.497	8.0551	.04337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.015**	**3.1169**	**.00138**	**.15688**	**.05365**	F **4987.6**	**.21014**
Stddev	.221	.0356	.00032	.00956	.00196	100.4	.00232
%RSD	1.1062	1.1427	23.286	6.0920	3.6568	2.0133	1.1020
#1	19.804	3.0828	.00164	.15868	.05168	4902.1	.20780
#2	19.997	3.1140	.00102	.16541	.05368	4962.7	.21020
#3	20.246	3.1539	.00149	.14655	.05560	5098.2	.21243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036512 Acquired: 2/18/2011 13:29:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-45.472**	F **330.44**	F **-1073.9**	**-.00042**	**.00290**	**89.331**	**.00331**
Stddev	3.108	6.33	19.0	.00298	.00254	1.997	.00049
%RSD	6.8343	1.9151	1.7683	702.22	87.530	2.2356	14.886
#1	-47.088	324.16	-1052.9	-.00292	.00508	87.216	.00330
#2	-41.889	330.35	-1078.7	-.00123	.00011	89.593	.00283
#3	-47.439	336.82	-1090.0	.00288	.00351	91.184	.00382
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19739**	**.06970**	**.00599**	**.07640**	**.30346**	**16.212**
Stddev	.00218	.00015	.00247	.00048	.00582	.286
%RSD	1.1051	.21250	41.184	.62627	1.9169	1.7638
#1	.19514	.06985	.00652	.07638	.29762	15.941
#2	.19752	.06955	.00330	.07593	.30350	16.186
#3	.19950	.06968	.00815	.07689	.30926	16.511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73647.**	**53709.**
Stddev	155.	355.
%RSD	.21072	.66123
#1	73734.	53395.
#2	73740.	54094.
#3	73468.	53638.

Approved: February 21, 2011

Sample Name: L1102036513 Acquired: 2/18/2011 13:33:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00212**	**29.072**	**.03563**	**.02483**	**.51265**	**.00296**	**319.33**
Stddev	.00036	.273	.00073	.00155	.00338	.00004	.96
%RSD	17.133	.93788	2.0515	6.2305	.65910	1.1918	.30070
#1	.00195	28.944	.03616	.02308	.50877	.00299	318.33
#2	.00188	28.887	.03595	.02602	.51425	.00293	319.39
#3	.00254	29.385	.03480	.02537	.51494	.00297	320.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**.02262**	**.05147**	**.27881**	**43.783**	**8.0894**	**.04624**
Stddev	.00023	.00001	.00088	.00004	.287	.0547	.00144
%RSD	5.3070	.03420	1.7193	.01551	.65655	.67617	3.1098
#1	.00424	.02261	.05188	.27876	43.454	8.0297	.04464
#2	.00410	.02262	.05045	.27881	43.915	8.1013	.04666
#3	.00455	.02263	.05207	.27885	43.981	8.1372	.04742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.415**	**3.7623**	**.00188**	**.16131**	**.05049**	F **7208.1**	**.25646**
Stddev	.097	.0102	.00014	.00629	.00054	31.2	.00168
%RSD	.38328	.27159	7.6452	3.8986	1.0627	.43258	.65619
#1	25.346	3.7518	.00173	.16799	.05029	7179.4	.25481
#2	25.372	3.7629	.00202	.15550	.05008	7203.7	.25639
#3	25.526	3.7722	.00189	.16044	.05110	7241.3	.25818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036513 Acquired: 2/18/2011 13:33:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.074**	F **364.51**	F **-1302.1**	**.00065**	**.00258**	**63.062**	**.00520**
Stddev	8.518	1.36	11.2	.00168	.00296	.405	.00043
%RSD	19.325	.37385	.86343	256.00	114.80	.64269	8.2937
#1	-34.266	363.23	-1292.2	-.00007	.00017	62.903	.00497
#2	-49.610	364.36	-1299.7	.00257	.00168	62.760	.00494
#3	-48.347	365.94	-1314.3	-.00053	.00588	63.522	.00570
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21691**	**.07344**	**.00609**	**.06745**	**.41708**	**15.341**
Stddev	.00033	.00035	.00024	.00081	.00171	.467
%RSD	.15137	.48303	3.8824	1.2035	.40967	3.0417
#1	.21684	.07366	.00593	.06654	.41525	14.885
#2	.21662	.07303	.00636	.06808	.41738	15.318
#3	.21726	.07363	.00597	.06774	.41863	15.818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73033.**	**53158.**
Stddev	210.	266.
%RSD	.28806	.50039
#1	72885.	52952.
#2	72940.	53459.
#3	73273.	53065.

Approved: February 21, 2011

Sample Name: L1102036514 Acquired: 2/18/2011 13:36:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**31.145**	**.04269**	**.02328**	**.50452**	**.00331**	**330.55**
Stddev	.00108	.167	.00243	.00168	.00431	.00003	2.16
%RSD	49.171	.53478	5.6812	7.2230	.85455	.76335	.65457
#1	.00293	31.337	.04075	.02134	.50025	.00334	328.38
#2	.00096	31.043	.04190	.02432	.50445	.00329	330.55
#3	.00272	31.054	.04541	.02418	.50887	.00331	332.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00401**	**.02549**	**.05503**	**.19836**	**44.681**	**8.0999**	**.04899**
Stddev	.00016	.00046	.00062	.00386	.331	.0165	.00208
%RSD	3.9527	1.7950	1.1310	1.9464	.74114	.20325	4.2430
#1	.00383	.02499	.05550	.19396	44.349	8.0810	.04886
#2	.00412	.02589	.05432	.19992	44.683	8.1107	.04699
#3	.00409	.02558	.05526	.20119	45.011	8.1082	.05114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.493**	**3.9072**	**.00099**	**.16974**	**.05789**	F **5722.0**	**.25043**
Stddev	.181	.0251	.00029	.02348	.00037	49.9	.00187
%RSD	.77106	.64157	29.571	13.830	.64034	.87129	.74594
#1	23.307	3.8817	.00065	.18063	.05811	5672.5	.25062
#2	23.504	3.9082	.00113	.14280	.05746	5721.3	.24848
#3	23.669	3.9318	.00119	.18580	.05810	5772.2	.25220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036514 Acquired: 2/18/2011 13:36:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-49.802**	F **376.03**	F **-987.43**	**-.00046**	**.00042**	**87.128**	**.00345**
Stddev	6.608	4.86	13.35	.00238	.00190	1.004	.00021
%RSD	13.269	1.2937	1.3516	516.61	456.00	1.1521	6.0075
#1	-47.495	371.11	-974.54	.00134	-.00175	86.008	.00344
#2	-44.656	376.14	-986.55	-.00316	.00183	87.430	.00324
#3	-57.254	380.84	-1001.2	.00044	.00116	87.946	.00366
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17860**	**.06942**	**.00703**	**.07447**	**.37958**	**17.654**
Stddev	.00132	.00090	.00127	.00041	.00490	.095
%RSD	.73821	1.2981	18.120	.55472	1.2917	.53604
#1	.17718	.06843	.00823	.07495	.37449	17.608
#2	.17883	.06964	.00716	.07423	.37998	17.591
#3	.17979	.07019	.00569	.07423	.38427	17.763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73382.**	**54484.**
Stddev	129.	395.
%RSD	.17631	.72526
#1	73530.	54028.
#2	73321.	54733.
#3	73294.	54690.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 13:40:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39861**	**10.043**	**.40703**	**.49607**	**1.0090**	**.04921**	**10.182**
Stddev	.00629	.140	.00223	.00781	.0010	.00052	.015
%RSD	1.5773	1.3908	.54855	1.5752	.10121	1.0554	.14339
#1	.39256	9.9215	.40467	.48892	1.0082	.04865	10.165
#2	.39815	10.012	.40912	.49487	1.0087	.04929	10.187
#3	.40511	10.196	.40729	.50441	1.0102	.04968	10.193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05132**	**.20427**	**.49330**	**.50632**	**4.0483**	**50.602**	**1.0142**
Stddev	.00025	.00023	.00491	.00064	.0175	.165	.0016
%RSD	.49058	.11029	.99549	.12661	.43315	.32529	.15411
#1	.05129	.20442	.48833	.50598	4.0365	50.427	1.0158
#2	.05158	.20402	.49343	.50706	4.0685	50.624	1.0142
#3	.05108	.20439	.49815	.50592	4.0400	50.754	1.0127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.093**	**.50724**	**1.0171**	**50.669**	**.51014**	F **28.331**	**.51060**
Stddev	.065	.00081	.0010	.052	.00101	14.349	.00164
%RSD	.64138	.15940	.10265	.10296	.19832	50.647	.32151
#1	10.028	.50630	1.0159	50.710	.51076	11.837	.51123
#2	10.093	.50771	1.0179	50.610	.50897	35.217	.50873
#3	10.158	.50770	1.0174	50.687	.51069	37.939	.51183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 13:40:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-10.476**	**10.433**	F **5.3606**	**1.2302**	**.40869**	**4.5242**	**1.0187**
Stddev	17.784	.067	3.9061	.0028	.00461	.2566	.0008
%RSD	169.75	.63795	72.868	.23022	1.1287	5.6715	.08296
#1	3.1241	10.361	8.3528	1.2305	.41306	4.2769	1.0180
#2	-3.9521	10.446	.94165	1.2329	.40915	4.5066	1.0184
#3	-30.600	10.492	6.7873	1.2273	.40387	4.7892	1.0196
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0166**	**1.0216**	**.51407**	**.98565**	**1.0061**	F **2.5574**
Stddev	.0039	.0056	.00190	.01169	.0015	.1362
%RSD	.38122	.55280	.36940	1.1862	.15206	5.3244
#1	1.0126	1.0173	.51347	.97355	1.0045	2.4550
#2	1.0168	1.0196	.51254	.98652	1.0063	2.5052
#3	1.0203	1.0280	.51619	.99688	1.0075	2.7119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**71805.**	**52120.**
Stddev	311.	331.
%RSD	.43363	.63485
#1	72073.	52266.
#2	71878.	52353.
#3	71463.	51742.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 13:43:38 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.01158**	**.00201**	**-.00029**	**.00052**	**.00002**	**-.01260**
Stddev	.00026	.00255	.00109	.00130	.00027	.00001	.01787
%RSD	24.641	22.040	54.443	446.27	52.345	68.092	141.85
#1	.00133	.00913	.00102	-.00177	.00038	.00002	-.03121
#2	.00083	.01422	.00182	.00070	.00035	.00000	.00442
#3	.00098	.01138	.00318	.00019	.00084	.00003	-.01100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00008**	**-.00015**	**.00003**	**.00110**	**.02792**	**-.00407**
Stddev	.00014	.00008	.00049	.00062	.00379	.01004	.00364
%RSD	476.27	98.198	326.35	1902.8	344.04	35.973	89.435
#1	-.00007	.00001	-.00053	.00072	-.00316	.02010	-.00088
#2	.00013	-.00012	-.00032	-.00014	.00234	.03924	-.00803
#3	-.00015	-.00013	.00040	-.00049	.00413	.02442	-.00329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01361**	**.00038**	**.00061**	**.02817**	**-.00011**	F **1.6749**	**-.00005**
Stddev	.01082	.00048	.00005	.03241	.00044	6.7006	.00338
%RSD	79.521	128.24	8.5306	115.04	393.75	400.07	6996.5
#1	.02087	.00032	.00065	.02334	-.00062	.88876	-.00220
#2	.00117	-.00008	.00055	.06273	.00018	-4.5980	.00385
#3	.01877	.00089	.00063	-.00155	.00010	8.7339	-.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 13:43:38 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-16.970**	**-.09802**	F **3.1884**	**-.00211**	**.00099**	**.02762**	**.00056**
Stddev	12.541	.05392	1.3335	.00072	.00377	.19359	.00035
%RSD	73.903	55.008	41.825	34.088	379.92	700.85	62.297
#1	-18.241	-.03829	1.9051	-.00294	.00532	.14827	.00034
#2	-28.828	-.14311	3.0930	-.00174	-.00160	-.19568	.00097
#3	-3.8419	-.11267	4.5670	-.00165	-.00074	.13027	.00039
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00082**	**.00234**	**.00009**	**.00016**	F **.32264**
Stddev	.00008	.00083	.00121	.00025	.00005	.22235
%RSD	65.968	101.80	51.809	283.54	28.666	68.914
#1	.00019	.00003	.00360	.00021	.00011	.17886
#2	.00015	-.00163	.00119	.00026	.00017	.57874
#3	.00003	-.00086	.00222	-.00020	.00020	.21032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74794.**	**51891.**
Stddev	1548.	156.
%RSD	2.0700	.30028
#1	73011.	51827.
#2	75794.	52069.
#3	75578.	51778.

Approved: February 21, 2011

Sample Name: L1102036515 Acquired: 2/18/2011 13:47:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**30.525**	**.03134**	**.02448**	**.60995**	**.00288**	**261.53**
Stddev	.00148	.150	.00016	.00128	.00455	.00003	1.29
%RSD	87.715	.49070	.51085	5.2491	.74532	.99796	.49433
#1	.00012	30.682	.03135	.02502	.60525	.00289	260.19
#2	.00189	30.508	.03149	.02301	.61027	.00291	261.65
#3	.00305	30.384	.03117	.02541	.61433	.00285	262.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00329**	**.02357**	**.04616**	**.19816**	**43.885**	**9.2067**	**.04640**
Stddev	.00012	.00029	.00096	.00106	.266	.0125	.00189
%RSD	3.6211	1.2366	2.0864	.53398	.60694	.13576	4.0767
#1	.00333	.02336	.04717	.19737	43.609	9.2036	.04818
#2	.00316	.02344	.04526	.19775	43.907	9.2204	.04441
#3	.00338	.02390	.04604	.19936	44.140	9.1960	.04661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.219**	**3.2890**	**.00111**	**.39074**	**.04990**	F **5308.1**	**.21486**
Stddev	.082	.0157	.00007	.01292	.00038	43.2	.00157
%RSD	.40635	.47598	6.1385	3.3077	.76346	.81388	.73224
#1	20.128	3.2736	.00103	.40141	.05033	5258.3	.21335
#2	20.240	3.2885	.00116	.37637	.04973	5330.0	.21474
#3	20.288	3.3049	.00114	.39445	.04963	5335.9	.21649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036515 Acquired: 2/18/2011 13:47:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.831**	F **304.92**	F **-1230.4**	**-.00067**	**.00552**	**63.997**	**.00347**
Stddev	24.496	2.71	12.1	.00230	.00286	.694	.00047
%RSD	52.307	.88869	.98391	344.37	51.717	1.0843	13.407
#1	-38.286	302.29	-1217.5	-.00279	.00775	63.196	.00364
#2	-27.752	304.78	-1232.1	.00177	.00651	64.426	.00384
#3	-74.455	307.70	-1241.6	-.00098	.00230	64.369	.00295
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17944**	**.05450**	**.00597**	**.06569**	**.33707**	**16.050**
Stddev	.00101	.00171	.00160	.00023	.00279	.117
%RSD	.56497	3.1333	26.870	.35333	.82786	.72610
#1	.17845	.05382	.00763	.06555	.33419	15.997
#2	.17937	.05644	.00442	.06596	.33725	16.184
#3	.18048	.05323	.00587	.06556	.33976	15.969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74055.**	**54790.**
Stddev	254.	260.
%RSD	.34316	.47496
#1	74228.	54515.
#2	74174.	54823.
#3	73763.	55032.

Approved: February 21, 2011

Sample Name: L1102036516 Acquired: 2/18/2011 13:50:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**38.485**	**.04032**	**.02552**	**.57024**	**.00389**	**340.25**
Stddev	.00132	.282	.00088	.00110	.00569	.00006	2.83
%RSD	68.825	.73375	2.1857	4.3005	.99830	1.6238	.83306
#1	.00047	38.173	.03992	.02433	.56407	.00382	337.55
#2	.00222	38.561	.03972	.02649	.57136	.00393	340.00
#3	.00305	38.722	.04133	.02575	.57529	.00392	343.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00396**	**.02944**	**.06400**	**.14521**	**52.155**	**8.3521**	**.05584**
Stddev	.00002	.00046	.00017	.00237	.493	.1048	.00266
%RSD	.60632	1.5492	.26727	1.6298	.94453	1.2545	4.7710
#1	.00397	.02896	.06408	.14292	51.625	8.2662	.05747
#2	.00394	.02948	.06380	.14506	52.242	8.3212	.05728
#3	.00399	.02987	.06412	.14765	52.599	8.4689	.05276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.246**	**4.1050**	**.00134**	**.92243**	**.06589**	F **5597.9**	**.24028**
Stddev	.251	.0362	.00043	.02594	.00080	73.6	.00276
%RSD	1.1262	.88157	32.355	2.8116	1.2076	1.3142	1.1507
#1	21.983	4.0684	.00126	.90194	.06534	5520.1	.23710
#2	22.274	4.1059	.00095	.91376	.06554	5607.2	.24169
#3	22.482	4.1408	.00181	.95159	.06681	5666.3	.24206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036516 Acquired: 2/18/2011 13:50:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-38.026**	F **385.01**	F **-916.64**	**.00130**	**.00005**	F **93.658**	**.00412**
Stddev	10.474	5.20	11.85	.00327	.00165	1.648	.00044
%RSD	27.544	1.3496	1.2928	251.62	3349.2	1.7595	10.679
#1	-26.132	379.66	-903.56	-.00220	-.00127	92.230	.00362
#2	-42.075	385.36	-919.70	.00429	-.00048	93.283	.00426
#3	-45.872	390.03	-926.65	.00181	.00190	95.461	.00447
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15197**	**.07353**	**.00788**	**.09553**	**.37967**	**18.203**
Stddev	.00116	.00083	.00132	.00135	.00465	.140
%RSD	.76522	1.1328	16.758	1.4171	1.2245	.77086
#1	.15091	.07301	.00941	.09467	.37506	18.298
#2	.15178	.07449	.00714	.09482	.37960	18.042
#3	.15321	.07309	.00709	.09709	.38436	18.270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**72852.**	**52893.**
Stddev	407.	295.
%RSD	.55864	.55727
#1	72409.	53231.
#2	72937.	52758.
#3	73210.	52690.

Approved: February 21, 2011

Sample Name: L1102036517 Acquired: 2/18/2011 13:54:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00269**	**27.691**	**.03371**	**.03658**	**.65471**	**.00277**	**297.73**
Stddev	.00081	.165	.00082	.00053	.00155	.00003	.85
%RSD	30.039	.59507	2.4256	1.4451	.23653	.96793	.28533
#1	.00358	27.802	.03312	.03697	.65297	.00279	296.89
#2	.00246	27.502	.03337	.03598	.65521	.00274	297.71
#3	.00202	27.770	.03465	.03680	.65594	.00277	298.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**.02182**	**.05103**	**.31965**	**47.545**	**9.4774**	**.04793**
Stddev	.00005	.00014	.00053	.00263	.077	.0558	.00211
%RSD	.94373	.64922	1.0346	.82255	.16126	.58906	4.4104
#1	.00489	.02166	.05107	.31672	47.457	9.4176	.04878
#2	.00482	.02194	.05048	.32042	47.580	9.4865	.04948
#3	.00491	.02184	.05153	.32181	47.598	9.5282	.04552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.699**	**3.5256**	**.00838**	**2.8577**	**.04963**	F **15005.**	**.30583**
Stddev	.035	.0106	.00052	.0123	.00048	145.	.00356
%RSD	.14259	.29991	6.1764	.42857	.96616	.96410	1.1642
#1	24.667	3.5144	.00779	2.8676	.05010	14847.	.30280
#2	24.692	3.5270	.00869	2.8440	.04915	15040.	.30494
#3	24.736	3.5354	.00868	2.8615	.04964	15129.	.30975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036517 Acquired: 2/18/2011 13:54:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.082**	F **400.22**	F **-3380.0**	**.00103**	**.00496**	**67.612**	**.00470**
Stddev	11.238	2.63	17.1	.00235	.00248	.875	.00038
%RSD	21.577	.65614	.50673	228.52	50.137	1.2941	8.0846
#1	-44.927	397.46	-3360.3	-.00090	.00779	66.666	.00426
#2	-46.284	400.53	-3389.7	.00364	.00318	67.777	.00493
#3	-65.034	402.68	-3390.2	.00034	.00389	68.393	.00490
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29460**	**.08401**	**.00628**	**.06980**	**.49330**	**12.850**
Stddev	.00057	.00150	.00064	.00022	.00374	.239
%RSD	.19342	1.7852	10.186	.31357	.75779	1.8631
#1	.29398	.08258	.00702	.06987	.48919	12.755
#2	.29511	.08388	.00588	.06998	.49421	12.673
#3	.29471	.08557	.00594	.06956	.49650	13.122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74191.**	**54746.**
Stddev	51.	218.
%RSD	.06816	.39869
#1	74215.	54542.
#2	74226.	54976.
#3	74133.	54721.

Approved: February 21, 2011

Sample Name: L1102036518 Acquired: 2/18/2011 13:57:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**28.167**	**.03467**	**.02681**	**.56153**	**.00296**	**331.57**
Stddev	.00048	.434	.00167	.00129	.00496	.00009	2.76
%RSD	24.622	1.5424	4.8107	4.8225	.88314	2.9423	.83090
#1	.00175	27.827	.03348	.02676	.55634	.00289	328.56
#2	.00250	28.019	.03396	.02813	.56201	.00293	332.17
#3	.00161	28.657	.03658	.02554	.56623	.00305	333.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00420**	**.02397**	**.05138**	**.19219**	**40.101**	**8.1388**	**.04747**
Stddev	.00007	.00039	.00072	.00333	.337	.0263	.00145
%RSD	1.7135	1.6083	1.3967	1.7328	.83992	.32260	3.0468
#1	.00421	.02355	.05059	.18897	39.745	8.1302	.04858
#2	.00413	.02406	.05155	.19196	40.145	8.1179	.04799
#3	.00427	.02431	.05200	.19562	40.414	8.1683	.04583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.300**	**3.4329**	**.00245**	**1.4209**	**.05185**	F **9505.7**	**.23882**
Stddev	.170	.0253	.00051	.0234	.00075	168.0	.00565
%RSD	.83961	.73615	20.671	1.6448	1.4543	1.7669	2.3642
#1	20.114	3.4059	.00232	1.3939	.05218	9339.4	.23510
#2	20.335	3.4369	.00202	1.4342	.05099	9502.5	.23605
#3	20.450	3.4559	.00301	1.4346	.05239	9675.2	.24532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036518 Acquired: 2/18/2011 13:57:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.720**	F **407.98**	F **-1934.8**	**.00369**	**.00350**	**65.169**	**.00462**
Stddev	8.226	8.03	39.2	.00269	.00354	1.109	.00040
%RSD	15.602	1.9684	2.0244	73.025	101.11	1.7021	8.6378
#1	-60.131	400.31	-1897.8	.00180	.00385	63.998	.00419
#2	-54.158	407.30	-1930.8	.00249	.00686	65.302	.00469
#3	-43.870	416.33	-1975.9	.00677	-.00020	66.205	.00498
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22175**	**.06384**	**.00660**	**.06739**	**.39581**	**15.977**
Stddev	.00169	.00051	.00204	.00061	.00833	.447
%RSD	.76367	.80643	30.932	.91252	2.1036	2.7974
#1	.21993	.06337	.00652	.06685	.38776	15.641
#2	.22203	.06377	.00460	.06725	.39529	15.805
#3	.22329	.06439	.00868	.06806	.40439	16.484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74001.**	**54133.**
Stddev	329.	257.
%RSD	.44482	.47552
#1	74219.	54189.
#2	74162.	54358.
#3	73623.	53852.

Approved: February 21, 2011

Sample Name: L1102036519 Acquired: 2/18/2011 14:01:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00322**	**24.742**	**.02920**	**.03811**	**.55489**	**.00275**	**339.76**
Stddev	.00060	.280	.00172	.00111	.00591	.00004	3.41
%RSD	18.540	1.1330	5.8863	2.9244	1.0651	1.2892	1.0029
#1	.00279	24.420	.03115	.03683	.54949	.00271	336.52
#2	.00390	24.929	.02793	.03864	.55398	.00277	339.44
#3	.00297	24.878	.02851	.03885	.56120	.00277	343.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00452**	**.02566**	**.04268**	**.98937**	**49.039**	**8.5836**	**.05121**
Stddev	.00025	.00032	.00035	.01373	.469	.1437	.00132
%RSD	5.4867	1.2648	.83092	1.3879	.95633	1.6744	2.5690
#1	.00425	.02546	.04260	.97658	48.596	8.4501	.05255
#2	.00456	.02549	.04307	.98764	48.991	8.5650	.05117
#3	.00474	.02604	.04238	1.0039	49.530	8.7357	.04992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.807**	**3.1044**	**.06778**	**.59376**	**.04611**	F **16413.**	**.32295**
Stddev	.162	.0326	.00102	.01177	.00065	217.	.00460
%RSD	.90773	1.0487	1.5059	1.9825	1.4097	1.3232	1.4253
#1	17.646	3.0710	.06719	.59326	.04548	16195.	.31908
#2	17.806	3.1061	.06720	.60577	.04608	16416.	.32171
#3	17.970	3.1361	.06896	.58224	.04678	16629.	.32804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036519 Acquired: 2/18/2011 14:01:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-51.605**	F **472.79**	F **-3972.6**	**-.00042**	**.00377**	**69.641**	**.00680**
Stddev	18.985	6.65	58.2	.00339	.00263	1.381	.00022
%RSD	36.788	1.4065	1.4647	815.70	69.876	1.9835	3.1620
#1	-37.267	466.43	-3916.3	-.00422	.00575	68.058	.00679
#2	-44.413	472.25	-3969.1	.00068	.00477	70.270	.00659
#3	-73.135	479.69	-4032.5	.00229	.00078	70.597	.00702
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43325**	**.07620**	**.00504**	**.06261**	**.60502**	**14.318**
Stddev	.00518	.00179	.00121	.00045	.00794	.082
%RSD	1.1964	2.3533	24.079	.72183	1.3124	.57224
#1	.42812	.07822	.00405	.06210	.59711	14.274
#2	.43315	.07559	.00468	.06278	.60496	14.413
#3	.43849	.07480	.00640	.06296	.61299	14.268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73152.**	**53806.**
Stddev	191.	67.
%RSD	.26051	.12376
#1	72955.	53804.
#2	73335.	53740.
#3	73166.	53873.

Approved: February 21, 2011

Sample Name: L1102036520 Acquired: 2/18/2011 14:04:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00222**	**25.475**	**.02953**	**.03191**	**.53425**	**.00273**	**511.76**
Stddev	.00026	.197	.00138	.00314	.00373	.00002	4.61
%RSD	11.834	.77361	4.6888	9.8324	.69854	.71078	.90068
#1	.00195	25.259	.02945	.03095	.53038	.00274	507.06
#2	.00247	25.645	.02818	.02936	.53454	.00271	511.96
#3	.00225	25.522	.03095	.03541	.53783	.00274	516.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00450**	**.02348**	**.04527**	**.28677**	**37.798**	**8.0542**	**.05776**
Stddev	.00012	.00040	.00043	.00568	.278	.1047	.00149
%RSD	2.6548	1.6906	.94869	1.9806	.73659	1.2994	2.5715
#1	.00463	.02306	.04513	.28082	37.530	7.9853	.05852
#2	.00439	.02356	.04494	.28735	37.778	8.0028	.05604
#3	.00449	.02384	.04576	.29214	38.086	8.1746	.05870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.889**	**2.9141**	**.00896**	**.42062**	**.04891**	F **13474.**	**.25229**
Stddev	.147	.0237	.00018	.00628	.00103	192.	.00412
%RSD	.77701	.81380	1.9655	1.4933	2.1099	1.4235	1.6317
#1	18.745	2.8887	.00913	.42532	.04777	13271.	.24846
#2	18.883	2.9180	.00896	.41349	.04977	13500.	.25177
#3	19.039	2.9357	.00878	.42306	.04920	13652.	.25665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036520 Acquired: 2/18/2011 14:04:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.327**	F **587.50**	F **-1672.7**	**.00004**	**.00317**	**82.926**	**.00637**
Stddev	17.390	9.36	23.5	.00189	.00139	1.178	.00025
%RSD	28.356	1.5928	1.4024	4820.9	43.703	1.4206	3.9775
#1	-46.102	578.25	-1651.1	.00219	.00436	82.000	.00658
#2	-80.278	587.30	-1669.4	-.00074	.00350	82.526	.00609
#3	-57.601	596.96	-1697.7	-.00133	.00165	84.252	.00644
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32769**	**.06060**	**.00499**	**.06508**	**.49955**	**17.720**
Stddev	.00288	.00088	.00080	.00060	.00811	.437
%RSD	.87858	1.4502	16.056	.92831	1.6228	2.4683
#1	.32459	.05971	.00408	.06449	.49133	17.639
#2	.32820	.06146	.00558	.06506	.49980	17.329
#3	.33029	.06064	.00531	.06570	.50753	18.193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**72676.**	**54531.**
Stddev	469.	134.
%RSD	.64467	.24574
#1	73057.	54376.
#2	72818.	54600.
#3	72153.	54616.

Approved: February 21, 2011

Sample Name: L1102036521 Acquired: 2/18/2011 14:08:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**25.481**	**.03255**	**.03554**	**.57892**	**.00236**	**256.84**
Stddev	.00021	.288	.00087	.00226	.00705	.00004	2.96
%RSD	9.9801	1.1286	2.6586	6.3624	1.2186	1.8741	1.1531
#1	.00183	25.303	.03281	.03808	.57156	.00233	253.71
#2	.00220	25.328	.03158	.03479	.57958	.00235	257.20
#3	.00217	25.813	.03325	.03375	.58562	.00241	259.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**.02530**	**.04650**	**.42159**	**41.646**	**7.5907**	**.04235**
Stddev	.00020	.00038	.00029	.00587	.519	.1248	.00443
%RSD	5.0458	1.5149	.62784	1.3925	1.2452	1.6437	10.472
#1	.00392	.02494	.04642	.41508	41.094	7.4562	.03830
#2	.00379	.02527	.04626	.42322	41.722	7.6134	.04709
#3	.00419	.02570	.04683	.42648	42.122	7.7026	.04165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.203**	**2.8985**	**.00316**	**.30119**	**.07720**	F **8701.4**	**.33097**
Stddev	.193	.0326	.00019	.00734	.05372	158.9	.00643
%RSD	1.0629	1.1266	5.8804	2.4377	69.591	1.8257	1.9431
#1	17.998	2.8629	.00296	.30001	.04528	8528.9	.32358
#2	18.231	2.9053	.00320	.30905	.13922	8733.9	.33405
#3	18.381	2.9272	.00332	.29451	.04710	8841.6	.33529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036521 Acquired: 2/18/2011 14:08:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.251**	F **389.19**	F **-4074.0**	**.00141**	**.00686**	**74.177**	**.00541**
Stddev	10.278	10.05	272.4	.00150	.00229	1.780	.00026
%RSD	25.536	2.5833	6.6858	106.10	33.327	2.3998	4.7268
#1	-43.143	378.56	-3859.4	-.00030	.00429	72.168	.00540
#2	-28.837	398.54	-4380.5	.00207	.00866	75.558	.00568
#3	-48.774	390.48	-3982.2	.00246	.00764	74.805	.00517
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20661**	**.07779**	**.00613**	**.06455**	**.63393**	**14.728**
Stddev	.00221	.00285	.00142	.00156	.03530	.052
%RSD	1.0694	3.6683	23.224	2.4198	5.5678	.35136
#1	.20418	.07989	.00763	.06402	.60536	14.786
#2	.20717	.07454	.00480	.06333	.67338	14.686
#3	.20849	.07894	.00596	.06631	.62305	14.711
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74812.**	**54490.**
Stddev	540.	174.
%RSD	.72169	.31902
#1	74795.	54587.
#2	74280.	54594.
#3	75360.	54289.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 14:12:00 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40667**	**10.077**	**.40644**	**.50365**	**1.0049**	**.05009**	**10.095**
Stddev	.00614	.126	.00250	.00611	.0023	.00072	.003
%RSD	1.5107	1.2520	.61534	1.2131	.22777	1.4369	.02752
#1	.40867	10.070	.40375	.50322	1.0047	.05021	10.092
#2	.41156	10.207	.40687	.50996	1.0072	.05074	10.095
#3	.39977	9.9554	.40869	.49776	1.0027	.04932	10.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05074**	**.20279**	**.49973**	**.50324**	**4.0238**	**50.330**	**1.0128**
Stddev	.00017	.00007	.00726	.00101	.0199	.147	.0045
%RSD	.33846	.03460	1.4523	.20090	.49362	.29134	.44155
#1	.05058	.20282	.49899	.50209	4.0054	50.311	1.0129
#2	.05092	.20285	.50733	.50399	4.0449	50.484	1.0172
#3	.05072	.20271	.49287	.50363	4.0212	50.193	1.0082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.048**	**.50447**	**1.0147**	**50.404**	**.50688**	F **11.979**	**.50675**
Stddev	.008	.00112	.0012	.172	.00105	1.561	.00179
%RSD	.07690	.22145	.11965	.34213	.20745	13.027	.35279
#1	10.051	.50536	1.0133	50.353	.50567	12.725	.50834
#2	10.053	.50483	1.0152	50.596	.50745	13.027	.50709
#3	10.039	.50321	1.0156	50.262	.50752	10.186	.50481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 14:12:00 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.179**	**10.113**	F **11.928**	**1.2275**	**.40639**	F **4.2992**	**1.0129**
Stddev	23.273	.021	1.250	.0013	.00236	.1161	.0013
%RSD	53.899	.20989	10.481	.10758	.58057	2.6995	.13082
#1	-55.289	10.094	10.809	1.2264	.40392	4.4315	1.0114
#2	-16.348	10.136	13.277	1.2271	.40863	4.2519	1.0136
#3	-57.900	10.110	11.697	1.2290	.40661	4.2144	1.0138
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0121**	**1.0177**	**.51085**	**1.0080**	**.99500**	F **1.9024**
Stddev	.0019	.0041	.00109	.0124	.00013	.3041
%RSD	.19117	.40615	.21359	1.2352	.01328	15.984
#1	1.0121	1.0158	.51111	1.0095	.99515	1.7395
#2	1.0141	1.0148	.51178	1.0196	.99494	2.2532
#3	1.0102	1.0224	.50965	.99484	.99491	1.7144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75913.**	**53544.**
Stddev	286.	810.
%RSD	.37735	1.5120
#1	75585.	53055.
#2	76037.	53098.
#3	76117.	54478.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 14:15:32 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00046**	**.00090**	**-.00063**	**-.00030**	**.00005**	**.00613**
Stddev	.00029	.00066	.00141	.00089	.00026	.00002	.00886
%RSD	310.53	144.00	157.07	141.13	85.233	46.492	144.50
#1	.00005	-.00112	.00006	-.00148	-.00002	.00004	.01278
#2	-.00017	.00021	.00011	-.00070	-.00052	.00008	-.00393
#3	.00040	-.00048	.00252	.00029	-.00036	.00003	.00954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00008**	**-.00096**	**-.00027**	**.00387**	**-.06557**	**.00004**
Stddev	.00009	.00016	.00011	.00032	.00430	.04120	.00228
%RSD	2403.9	207.13	11.792	120.42	111.14	62.835	5831.5
#1	-.00002	.00009	-.00083	-.00053	.00788	-.07983	.00088
#2	.00010	-.00010	-.00100	-.00036	-.00067	-.09776	.00178
#3	-.00007	-.00022	-.00105	.00009	.00439	-.01914	-.00254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00452**	**.00045**	**.00054**	**.02137**	**.00034**	F **5.5305**	**.00178**
Stddev	.01466	.00050	.00018	.02572	.00048	2.1173	.00063
%RSD	324.60	112.67	33.600	120.34	141.82	38.283	35.204
#1	-.01090	.00092	.00036	.04715	-.00021	7.4354	.00117
#2	-.01490	.00051	.00073	-.00429	.00054	3.2509	.00175
#3	.01226	-.00009	.00054	.02126	.00068	5.9051	.00243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 14:15:32 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.847**	**-.10408**	F **5.5702**	**-.00137**	**.00503**	**-.17487**	**.00044**
Stddev	8.240	.04457	.8163	.00174	.00253	.28621	.00026
%RSD	19.230	42.826	14.656	126.74	50.265	163.67	60.065
#1	-47.008	-.05278	5.3972	-.00036	.00779	-.39971	.00041
#2	-48.177	-.13338	6.4591	-.00038	.00283	-.27222	.00019
#3	-33.357	-.12608	4.8541	-.00338	.00446	.14732	.00071
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00003**	**.00173**	**-.00025**	**.00015**	F **.72670**
Stddev	.00006	.00060	.00039	.00046	.00001	.21607
%RSD	107.28	2339.0	22.729	186.00	8.7948	29.733
#1	-.00001	-.00012	.00155	.00028	.00016	.95159
#2	-.00004	.00062	.00146	-.00047	.00016	.52069
#3	-.00012	-.00058	.00218	-.00056	.00014	.70783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76149.**	**55493.**
Stddev	178.	305.
%RSD	.23320	.55027
#1	76342.	55477.
#2	76112.	55196.
#3	75993.	55806.

Approved: February 21, 2011

Sample Name: PBS SD Acquired: 2/18/2011 14:19:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356822-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00219**	**-.00124**	**-.00106**	**.00001**	**.00006**	**.02140**
Stddev	.00083	.00088	.00207	.00050	.00030	.00004	.01387
%RSD	275.58	40.026	166.26	46.931	3503.0	63.664	64.795
#1	.00045	-.00308	-.00213	-.00160	.00019	.00009	.03737
#2	.00104	-.00133	-.00272	-.00062	-.00034	.00002	.01456
#3	-.00059	-.00217	.00112	-.00096	.00018	.00009	.01229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00043**	**.00022**	**-.00039**	**.00980**	**-.06104**	**-.00246**
Stddev	.00009	.00005	.00019	.00009	.00504	.02496	.00078
%RSD	64.965	10.681	86.026	23.344	51.455	40.889	31.701
#1	.00003	-.00038	.00025	-.00050	.01433	-.03359	-.00181
#2	.00019	-.00046	.00040	-.00035	.00437	-.08237	-.00224
#3	.00017	-.00044	.00002	-.00033	.01070	-.06716	-.00333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00263**	**.00081**	**.00010**	**.02493**	**.00114**	F **-9.5744**	**.00250**
Stddev	.02215	.00081	.00007	.01013	.00012	8.9725	.00249
%RSD	841.39	99.814	62.923	40.614	10.617	93.714	99.738
#1	.01149	.00012	.00012	.02776	.00110	-18.612	.00006
#2	-.02257	.00170	.00003	.03334	.00105	-9.4433	.00239
#3	.01898	.00061	.00016	.01369	.00128	-.6682	.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: PBS SD Acquired: 2/18/2011 14:19:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356822-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.050**	F **-.04637**	**4.0356**	**-.00068**	**.00567**	**1.8193**	**.00039**
Stddev	16.423	.00527	.7580	.00145	.00180	.3198	.00026
%RSD	38.147	11.370	18.783	213.38	31.695	17.579	65.642
#1	-36.382	-.05242	4.5600	-.00142	.00433	1.7826	.00048
#2	-31.011	-.04274	4.3803	-.00161	.00497	1.5195	.00060
#3	-61.758	-.04396	3.1665	.00099	.00771	2.1559	.00010
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00073**	**-.00155**	**-.00031**	**.00229**	**.64945**
Stddev	.00006	.00138	.00139	.00034	.00003	.19698
%RSD	364.45	187.35	90.118	109.33	1.2267	30.330
#1	-.00007	.00135	-.00315	-.00068	.00233	.85743
#2	.00005	-.00084	-.00090	-.00024	.00228	.62518
#3	-.00004	.00170	-.00060	-.00001	.00228	.46573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75965.**	**54199.**
Stddev	170.	210.
%RSD	.22407	.38794
#1	75778.	54288.
#2	76112.	54351.
#3	76006.	53959.

Approved: February 21, 2011

Sample Name: LCSS SD Acquired: 2/18/2011 14:22:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356822-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20125**	**-.00222**	**.20541**	**.00036**	**.00050**	**.00006**	**.00346**
Stddev	.00308	.00209	.00120	.00152	.00048	.00000	.01041
%RSD	1.5293	93.991	.58531	419.25	96.236	3.8780	300.68
#1	.19776	-.00463	.20679	.00128	-.00006	.00006	-.00100
#2	.20241	-.00101	.20492	-.00139	.00077	.00006	.01536
#3	.20359	-.00102	.20454	.00121	.00078	.00007	-.00397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02594**	**-.00037**	**.00012**	**.26603**	**.00282**	**-.04251**	**.00003**
Stddev	.00004	.00015	.00043	.00072	.00218	.02506	.00154
%RSD	.14548	41.508	348.21	.26910	77.265	58.958	5287.6
#1	.02594	-.00053	.00062	.26560	.00364	-.01375	.00140
#2	.02590	-.00023	-.00017	.26562	.00035	-.05968	-.00164
#3	.02598	-.00033	-.00008	.26685	.00447	-.05410	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.27374**	**-.00021**	**-.00188**	**.00171**	F **-10.525**	**.27208**
Stddev	.01351	.00137	.00011	.02182	.00021	6.904	.00399
%RSD	1701.8	.50024	51.587	1159.0	12.282	65.601	1.4676
#1	-.00844	.27433	-.00028	-.00966	.00148	-6.3920	.26770
#2	.01630	.27472	-.00008	-.01874	.00177	-18.496	.27305
#3	-.00548	.27218	-.00025	.02276	.00189	-6.6871	.27551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: LCSS SD Acquired: 2/18/2011 14:22:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356822-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-26.721**	F **-.14784**	**6.8121**	**.00001**	**.00633**	**1.2338**	**.00068**
Stddev	8.276	.02370	1.5900	.00256	.00412	.0917	.00026
%RSD	30.970	16.030	23.342	38043.	65.110	7.4339	39.013
#1	-17.173	-.17480	7.9474	.00046	.00450	1.2490	.00090
#2	-31.830	-.13845	4.9948	-.00275	.01105	1.1355	.00075
#3	-31.160	-.13028	7.4940	.00230	.00345	1.3170	.00038
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00017**	**.00023**	**-.00052**	**.00156**	**.28895**
Stddev	.00012	.00074	.00120	.00075	.00012	.27186
%RSD	46.154	438.92	526.93	144.20	7.7834	94.083
#1	-.00039	.00022	-.00092	.00009	.00142	.06623
#2	-.00023	-.00059	.00147	-.00029	.00159	.59189
#3	-.00016	.00088	.00014	-.00136	.00166	.20874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75140.**	**53364.**
Stddev	332.	192.
%RSD	.44220	.35967
#1	75404.	53571.
#2	75249.	53328.
#3	74767.	53192.

Approved: February 21, 2011

Sample Name: L1102036301 Acquired: 2/18/2011 14:26:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00543**	**52.213**	**.04329**	**.05211**	**.46364**	**.00230**	**353.24**
Stddev	.00060	.192	.00213	.00131	.00110	.00002	.82
%RSD	11.113	.36732	4.9117	2.5218	.23637	.68141	.23103
#1	.00500	52.321	.04110	.05127	.46372	.00229	352.85
#2	.00517	51.991	.04535	.05363	.46250	.00231	352.69
#3	.00612	52.326	.04342	.05145	.46469	.00228	354.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00622**	**.02230**	**.08139**	**.39968**	**65.796**	**11.119**	**.07250**
Stddev	.00006	.00006	.00035	.00088	.057	.084	.00098
%RSD	.90437	.27334	.43508	.22022	.08631	.75880	1.3495
#1	.00622	.02237	.08171	.39870	65.834	11.095	.07363
#2	.00627	.02225	.08101	.40041	65.731	11.050	.07194
#3	.00616	.02228	.08146	.39994	65.824	11.213	.07193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.750**	**4.5131**	**.00222**	**.54891**	**.05796**	F **7932.7**	**.49796**
Stddev	.077	.0060	.00032	.02519	.00070	20.5	.00246
%RSD	.25136	.13411	14.442	4.5882	1.2086	.25821	.49476
#1	30.760	4.5071	.00258	.51986	.05722	7911.2	.49972
#2	30.668	4.5131	.00205	.56226	.05805	7951.9	.49515
#3	30.822	4.5192	.00201	.56461	.05861	7935.1	.49902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036301 Acquired: 2/18/2011 14:26:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-45.502**	F **400.61**	F **-1739.2**	**.00200**	**.00186**	**58.003**	**.02305**
Stddev	16.210	.97	1.9	.00134	.00626	.259	.00018
%RSD	35.624	.24247	.10807	66.967	337.02	.44661	.77918
#1	-57.856	400.18	-1740.0	.00062	.00236	57.704	.02317
#2	-51.502	399.93	-1737.1	.00329	-.00464	58.150	.02314
#3	-27.148	401.72	-1740.6	.00208	.00785	58.156	.02285
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19135**	**.50037**	**.00975**	**.10157**	**.87525**	**16.850**
Stddev	.00065	.00055	.00099	.00012	.00189	.171
%RSD	.33800	.10893	10.195	.11350	.21586	1.0164
#1	.19093	.50006	.00889	.10168	.87388	16.652
#2	.19103	.50100	.00954	.10159	.87447	16.954
#3	.19210	.50004	.01084	.10145	.87741	16.943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75086.**	**56006.**
Stddev	358.	309.
%RSD	.47617	.55215
#1	75186.	56121.
#2	75382.	56241.
#3	74689.	55656.

Approved: February 21, 2011

Sample Name: L1102036301PS Acquired: 2/18/2011 14:29:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356973-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21590**	**57.889**	**.26467**	**1.0975**	**1.0139**	**.02852**	**366.78**
Stddev	.00105	.486	.00179	.0027	.0022	.00007	1.10
%RSD	.48857	.83912	.67547	.24345	.21250	.24442	.29964
#1	.21471	57.372	.26261	1.0967	1.0118	.02845	365.61
#2	.21673	57.959	.26568	1.0953	1.0139	.02854	366.94
#3	.21625	58.336	.26573	1.1005	1.0161	.02858	367.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03390**	**.12889**	**.33237**	**.67134**	**69.680**	**38.586**	**.62305**
Stddev	.00011	.00010	.00092	.00171	.179	.205	.00536
%RSD	.33603	.07756	.27737	.25436	.25664	.53035	.86067
#1	.03398	.12884	.33134	.66956	69.504	38.411	.61757
#2	.03377	.12884	.33265	.67150	69.673	38.535	.62829
#3	.03395	.12901	.33312	.67296	69.862	38.811	.62329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.513**	**4.8864**	**.55682**	**28.660**	**.32295**	F **8199.2**	**.77026**
Stddev	.095	.0110	.00113	.087	.00140	11.3	.00492
%RSD	.26067	.22406	.20359	.30259	.43304	.13805	.63899
#1	36.403	4.8764	.55578	28.561	.32197	8186.2	.76827
#2	36.562	4.8848	.55665	28.720	.32231	8206.2	.76665
#3	36.573	4.8981	.55803	28.701	.32455	8205.3	.77587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036301PS Acquired: 2/18/2011 14:29:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356973-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.623**	F **413.97**	F **-1791.1**	**.65509**	**.22459**	F **382.24**	**.02472**
Stddev	6.929	.57	5.4	.00090	.00203	.48	.00014
%RSD	15.527	.13655	.30304	.13678	.90241	.12636	.58539
#1	-43.074	413.32	-1785.6	.65514	.22228	381.78	.02486
#2	-38.600	414.29	-1791.1	.65417	.22608	382.19	.02457
#3	-52.195	414.31	-1796.4	.65596	.22541	382.74	.02474
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.73166**	**1.0490**	**.26987**	**.61755**	**1.4228**	**18.498**
Stddev	.00203	.0029	.00033	.00149	.0012	.258
%RSD	.27682	.27668	.12299	.24075	.08324	1.3941
#1	.72933	1.0458	.26967	.61641	1.4214	18.233
#2	.73266	1.0514	.26969	.61700	1.4235	18.747
#3	.73300	1.0499	.27025	.61923	1.4235	18.515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**72727.**	**53899.**
Stddev	47.	297.
%RSD	.06488	.55158
#1	72739.	54166.
#2	72674.	53951.
#3	72766.	53579.

Approved: February 21, 2011

Sample Name: L1102036301SDL Acquired: 2/18/2011 14:33:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356973-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**11.972**	**.01000**	**.01353**	**.09532**	**.00051**	**72.807**
Stddev	.00118	.060	.00139	.00059	.00027	.00003	.186
%RSD	55.107	.50436	13.905	4.3923	.28054	5.1578	.25527
#1	.00101	12.027	.00963	.01392	.09528	.00048	72.603
#2	.00337	11.982	.01153	.01285	.09561	.00052	72.851
#3	.00204	11.907	.00883	.01383	.09508	.00053	72.967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**.00480**	**.01781**	**.08477**	**13.688**	**2.2535**	**.01455**
Stddev	.00008	.00005	.00062	.00021	.026	.0411	.00194
%RSD	6.5212	1.1368	3.4737	.24769	.18829	1.8250	13.309
#1	.00126	.00474	.01852	.08479	13.659	2.2846	.01447
#2	.00133	.00485	.01751	.08498	13.707	2.2069	.01265
#3	.00117	.00480	.01740	.08456	13.698	2.2690	.01652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.5279**	**.94775**	**.00062**	**.11388**	**.01248**	F **1641.2**	**.10942**
Stddev	.0282	.00021	.00011	.01240	.00048	5.1	.00365
%RSD	.43123	.02246	17.301	10.887	3.8705	.31093	3.3349
#1	6.4972	.94751	.00050	.12356	.01257	1639.7	.11293
#2	6.5341	.94789	.00070	.09991	.01196	1646.9	.10967
#3	6.5524	.94786	.00066	.11817	.01292	1637.1	.10565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036301SDL Acquired: 2/18/2011 14:33:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356973-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.547**	F **87.109**	F **-343.96**	**-.00111**	**.00210**	**11.518**	**.00413**
Stddev	8.025	.261	1.62	.00255	.00121	.175	.00042
%RSD	23.921	.29986	.47122	229.29	57.681	1.5188	10.117
#1	-25.282	87.076	-345.24	-.00189	.00336	11.565	.00419
#2	-34.051	86.865	-344.51	.00174	.00095	11.324	.00451
#3	-41.308	87.385	-342.14	-.00317	.00200	11.664	.00369
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03935**	**.10279**	**.00518**	**.02166**	**.18847**	**3.1416**
Stddev	.00008	.00092	.00172	.00027	.00059	.1124
%RSD	.19415	.89462	33.215	1.2445	.31507	3.5784
#1	.03943	.10347	.00553	.02187	.18813	3.1986
#2	.03928	.10314	.00331	.02136	.18814	3.0121
#3	.03936	.10174	.00670	.02177	.18916	3.2141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76018.**	**54391.**
Stddev	498.	434.
%RSD	.65485	.79810
#1	76220.	53937.
#2	76383.	54433.
#3	75451.	54802.

Approved: February 21, 2011

Sample Name: L1102036301SDL Acquired: 2/18/2011 14:36:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356973-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**2.4042**	**.00373**	**.00109**	**.01874**	**.00010**	**14.468**
Stddev	.00070	.0031	.00154	.00020	.00022	.00002	.043
%RSD	56.435	.13022	41.370	18.239	1.1841	17.967	.29634
#1	.00102	2.4037	.00507	.00093	.01888	.00012	14.421
#2	.00202	2.4013	.00409	.00103	.01886	.00009	14.506
#3	.00067	2.4075	.00204	.00131	.01848	.00008	14.476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00104**	**.00326**	**.01638**	**2.6806**	**.34910**	**.00015**
Stddev	.00013	.00003	.00011	.00040	.0079	.02078	.00104
%RSD	162.70	3.0191	3.5110	2.4527	.29386	5.9520	697.67
#1	.00002	.00106	.00329	.01622	2.6837	.36911	-.00037
#2	.00023	.00105	.00335	.01684	2.6865	.32763	.00134
#3	-.00001	.00100	.00313	.01608	2.6717	.35056	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3102**	**.19021**	**-.00004**	**.03222**	**.00268**	**305.65**	**.02392**
Stddev	.0211	.00136	.00009	.01617	.00065	9.98	.00206
%RSD	1.6130	.71303	226.77	50.167	24.228	3.2668	8.6240
#1	1.2896	.18909	.00002	.04077	.00343	315.44	.02189
#2	1.3318	.18982	-.00015	.04232	.00230	295.48	.02386
#3	1.3092	.19172	.00001	.01358	.00230	306.03	.02601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102036301SDL Acquired: 2/18/2011 14:36:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356973-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.762**	F **17.166**	F **-56.623**	**-.00406**	**-.00174**	**1.6703**	**.00067**
Stddev	1.737	.015	.433	.00055	.00256	.0800	.00009
%RSD	3.8817	.08893	.76393	13.441	147.63	4.7886	13.809
#1	-43.000	17.168	-57.023	-.00463	-.00038	1.6864	.00077
#2	-44.811	17.150	-56.681	-.00354	-.00470	1.7410	.00060
#3	-46.474	17.180	-56.164	-.00403	-.00014	1.5835	.00063
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00749**	**.01951**	**.00152**	**.00448**	**.03807**	**.71711**
Stddev	.00021	.00104	.00130	.00066	.00016	.13283
%RSD	2.8239	5.3556	85.658	14.622	.42270	18.523
#1	.00730	.01975	.00284	.00480	.03793	.81498
#2	.00772	.01837	.00147	.00491	.03803	.56590
#3	.00744	.02041	.00024	.00373	.03825	.77044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75730.**	**55018.**
Stddev	529.	176.
%RSD	.69842	.32014
#1	75922.	55133.
#2	76137.	54815.
#3	75132.	55106.

Approved: February 21, 2011

Sample Name: L1102036302 Acquired: 2/18/2011 14:40:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01409**	**50.182**	**.05184**	**.05172**	**.46402**	**.00291**	**369.81**
Stddev	.00108	.394	.00234	.00188	.00368	.00002	2.84
%RSD	7.6502	.78550	4.5126	3.6347	.79391	.70261	.76736
#1	.01529	49.744	.05013	.05176	.46011	.00289	366.67
#2	.01377	50.293	.05090	.05358	.46452	.00293	370.54
#3	.01321	50.508	.05451	.04982	.46743	.00289	372.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01141**	**.02384**	**.08364**	**.38677**	**68.834**	**11.753**	**.07267**
Stddev	.00028	.00031	.00078	.00223	.528	.111	.00071
%RSD	2.4734	1.2921	.92930	.57711	.76754	.94348	.97747
#1	.01109	.02349	.08275	.38499	68.246	11.625	.07336
#2	.01152	.02404	.08419	.38604	68.987	11.824	.07194
#3	.01162	.02400	.08398	.38927	69.268	11.811	.07272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.079**	**4.4108**	**.00305**	**3.0914**	**.06686**	F **11101.**	**.49841**
Stddev	.281	.0298	.00012	.0469	.00088	110.	.00318
%RSD	.79971	.67593	3.8849	1.5154	1.3089	.98876	.63785
#1	34.775	4.3770	.00293	3.0374	.06652	10990.	.49478
#2	35.136	4.4224	.00316	3.1204	.06621	11104.	.50071
#3	35.328	4.4331	.00306	3.1166	.06786	11210.	.49974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036302 Acquired: 2/18/2011 14:40:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-45.639**	F **505.06**	F **-4425.1**	**.00310**	**.00815**	**73.097**	**.02601**
Stddev	9.505	3.82	41.2	.00127	.00251	.899	.00018
%RSD	20.826	.75549	.93054	40.902	30.838	1.2303	.69595
#1	-54.702	501.78	-4379.9	.00424	.00690	72.203	.02594
#2	-46.468	504.16	-4435.1	.00174	.01105	73.086	.02621
#3	-35.747	509.25	-4460.4	.00332	.00651	74.001	.02587
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19540**	**.32625**	**.00769**	**.10642**	**.93671**	**18.141**
Stddev	.00199	.00241	.00137	.00089	.00733	.322
%RSD	1.0190	.73788	17.808	.83358	.78231	1.7740
#1	.19316	.32366	.00680	.10545	.92955	17.769
#2	.19610	.32668	.00701	.10662	.93639	18.329
#3	.19695	.32841	.00927	.10719	.94419	18.324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73501.**	**53119.**
Stddev	1053.	46.
%RSD	1.4325	.08568
#1	72347.	53159.
#2	73748.	53070.
#3	74409.	53130.

Approved: February 21, 2011

Sample Name: L1102036303 Acquired: 2/18/2011 14:44:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**57.539**	**.04978**	**.05275**	**.46230**	**.00364**	**407.91**
Stddev	.00066	.433	.00086	.00023	.00342	.00003	3.42
%RSD	15.488	.75278	1.7275	.44341	.73917	.79970	.83822
#1	.00355	57.306	.05073	.05301	.45855	.00367	404.59
#2	.00485	57.271	.04905	.05267	.46312	.00361	407.73
#3	.00432	58.038	.04957	.05256	.46523	.00365	411.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00605**	**.02624**	**.09071**	**.38261**	**72.504**	**11.575**	**.08256**
Stddev	.00021	.00025	.00049	.00232	.547	.103	.00151
%RSD	3.4563	.96669	.54330	.60649	.75441	.88823	1.8344
#1	.00582	.02606	.09054	.38054	71.905	11.462	.08089
#2	.00622	.02613	.09032	.38216	72.630	11.600	.08383
#3	.00612	.02653	.09126	.38512	72.977	11.664	.08298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.434**	**4.8532**	**.00186**	**1.5015**	**.07355**	F **8934.8**	**.41734**
Stddev	.312	.0396	.00008	.0160	.00034	53.1	.00200
%RSD	.83355	.81678	4.0500	1.0663	.46413	.59445	.47839
#1	37.108	4.8114	.00187	1.4951	.07387	8882.3	.41657
#2	37.464	4.8578	.00177	1.5198	.07319	8933.6	.41585
#3	37.730	4.8903	.00192	1.4897	.07357	8988.5	.41961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036303 Acquired: 2/18/2011 14:44:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.909**	F **478.00**	F **-2122.1**	**.00553**	**.00761**	**73.476**	**.00732**
Stddev	11.446	2.53	20.9	.00112	.00131	.271	.00028
%RSD	19.430	.52994	.98466	20.341	17.255	.36943	3.8886
#1	-45.919	475.29	-2099.8	.00587	.00912	73.208	.00707
#2	-63.292	478.40	-2125.3	.00427	.00694	73.469	.00763
#3	-67.515	480.30	-2141.2	.00644	.00677	73.750	.00725
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18942**	**.28489**	**.00877**	**.11200**	**.78757**	**17.076**
Stddev	.00133	.00132	.00098	.00016	.00400	.347
%RSD	.70272	.46502	11.140	.14437	.50750	2.0344
#1	.18807	.28390	.00904	.11198	.78332	16.741
#2	.18946	.28437	.00959	.11184	.78814	17.053
#3	.19073	.28639	.00769	.11217	.79125	17.435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73618.**	**55352.**
Stddev	251.	315.
%RSD	.34121	.56925
#1	73433.	55204.
#2	73518.	55714.
#3	73904.	55138.

Approved: February 21, 2011

Sample Name: L1102036304 Acquired: 2/18/2011 14:47:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00488**	**53.384**	**.05704**	**.05993**	**.54598**	**.00278**	**308.47**
Stddev	.00102	.462	.00084	.00286	.00982	.00005	4.87
%RSD	20.821	.86593	1.4716	4.7716	1.7995	1.8284	1.5801
#1	.00458	52.939	.05719	.05665	.53599	.00272	303.57
#2	.00601	53.350	.05614	.06192	.54630	.00280	308.53
#3	.00405	53.862	.05780	.06122	.55564	.00282	313.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00709**	**.02596**	**.08293**	**.49531**	**73.081**	**12.432**	**.07065**
Stddev	.00022	.00069	.00150	.01213	1.292	.214	.00176
%RSD	3.0313	2.6557	1.8143	2.4492	1.7678	1.7224	2.4975
#1	.00690	.02520	.08133	.48324	71.796	12.200	.06880
#2	.00705	.02616	.08314	.49520	73.067	12.474	.07085
#3	.00733	.02654	.08432	.50750	74.380	12.622	.07231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.050**	**5.0232**	**.00305**	**1.3099**	**.06743**	F **8874.7**	**.63960**
Stddev	.450	.0760	.00034	.0317	.00238	194.0	.01314
%RSD	1.3206	1.5125	11.311	2.4226	3.5314	2.1865	2.0548
#1	33.598	4.9456	.00268	1.2739	.06538	8681.7	.62963
#2	34.055	5.0263	.00310	1.3220	.06687	8872.8	.63467
#3	34.498	5.0975	.00337	1.3338	.07004	9069.7	.65449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036304 Acquired: 2/18/2011 14:47:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-74.493**	F **423.77**	F **-3022.2**	**.00461**	**.00729**	**74.299**	**.01204**
Stddev	10.352	9.55	67.6	.00091	.00407	1.487	.00040
%RSD	13.896	2.2540	2.2379	19.759	55.891	2.0012	3.3232
#1	-86.251	414.08	-2956.0	.00510	.01197	72.711	.01186
#2	-70.480	424.05	-3019.5	.00518	.00453	74.529	.01176
#3	-66.749	433.17	-3091.2	.00356	.00537	75.658	.01249
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21629**	**.41429**	**.00982**	**.10943**	**1.0609**	**19.220**
Stddev	.00350	.00347	.00128	.00184	.0241	.378
%RSD	1.6190	.83637	13.042	1.6781	2.2732	1.9664
#1	.21281	.41096	.00835	.10734	1.0365	18.998
#2	.21623	.41405	.01071	.11020	1.0616	19.656
#3	.21982	.41787	.01039	.11076	1.0847	19.005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73043.**	**56057.**
Stddev	224.	175.
%RSD	.30624	.31188
#1	73301.	56241.
#2	72909.	56034.
#3	72918.	55894.

Approved: February 21, 2011

Sample Name: L1102036305 Acquired: 2/18/2011 14:51:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01715**	**49.307**	**.05167**	**.05473**	**.52704**	**.00298**	**298.44**
Stddev	.00084	.337	.00171	.00130	.00270	.00001	2.56
%RSD	4.9144	.68262	3.3045	2.3723	.51246	.43284	.85636
#1	.01677	48.920	.05270	.05328	.52406	.00298	295.72
#2	.01811	49.530	.04969	.05579	.52772	.00296	298.81
#3	.01656	49.472	.05260	.05512	.52933	.00298	300.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00627**	**.02294**	**.07820**	**.45125**	**66.586**	**10.454**	**.06544**
Stddev	.00008	.00014	.00028	.00324	.412	.172	.00069
%RSD	1.3325	.59581	.35746	.71784	.61935	1.6457	1.0475
#1	.00626	.02279	.07838	.44785	66.133	10.257	.06500
#2	.00619	.02306	.07788	.45161	66.685	10.575	.06623
#3	.00635	.02296	.07835	.45430	66.940	10.530	.06509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.587**	**5.2022**	**.00301**	**1.2622**	**.05851**	F **7928.5**	**.58682**
Stddev	.275	.0445	.00035	.0266	.00124	66.1	.00722
%RSD	.87191	.85522	11.502	2.1075	2.1278	.83392	1.2301
#1	31.294	5.1536	.00271	1.2786	.05708	7855.9	.58080
#2	31.625	5.2118	.00294	1.2315	.05913	7944.3	.58484
#3	31.841	5.2410	.00339	1.2765	.05932	7985.2	.59482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036305 Acquired: 2/18/2011 14:51:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.711**	F **378.42**	F **-2680.0**	**.00278**	**.00714**	**62.351**	**.01510**
Stddev	9.555	3.30	18.6	.00299	.00269	.352	.00044
%RSD	17.151	.87150	.69349	107.64	37.634	.56515	2.9268
#1	-65.272	375.05	-2660.3	-.00064	.00740	62.439	.01459
#2	-55.700	378.58	-2682.6	.00405	.00433	61.964	.01541
#3	-46.162	381.64	-2697.2	.00492	.00968	62.652	.01528
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20007**	**.30935**	**.01018**	**.10131**	**.95279**	**15.279**
Stddev	.00187	.00469	.00083	.00037	.00889	.220
%RSD	.93447	1.5173	8.1332	.36150	.93292	1.4380
#1	.19812	.30412	.01041	.10117	.94376	15.475
#2	.20025	.31071	.01087	.10173	.95308	15.042
#3	.20184	.31321	.00926	.10105	.96153	15.321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75006.**	**53597.**
Stddev	100.	267.
%RSD	.13306	.49895
#1	75028.	53673.
#2	75093.	53300.
#3	74897.	53818.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 14:54:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40325**	**10.012**	**.40701**	**.50511**	**1.0186**	**.04978**	**10.130**
Stddev	.00174	.044	.00083	.00451	.0015	.00045	.003
%RSD	.43159	.44140	.20341	.89194	.15062	.90251	.02766
#1	.40199	9.9725	.40607	.50269	1.0169	.04932	10.128
#2	.40524	10.060	.40759	.51031	1.0197	.05021	10.133
#3	.40252	10.005	.40739	.50233	1.0193	.04980	10.128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05125**	**.20548**	**.49896**	**.50983**	**4.0865**	**51.020**	**1.0249**
Stddev	.00020	.00019	.00305	.00028	.0086	.146	.0050
%RSD	.38492	.09064	.61157	.05515	.21088	.28707	.48534
#1	.05140	.20560	.49576	.51012	4.0768	50.851	1.0198
#2	.05103	.20527	.50183	.50981	4.0892	51.108	1.0297
#3	.05133	.20558	.49928	.50956	4.0934	51.102	1.0254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.106**	**.50950**	**1.0244**	**51.357**	**.51246**	F **11.289**	**.51328**
Stddev	.011	.00073	.0004	.120	.00070	5.863	.00063
%RSD	.11150	.14268	.03652	.23435	.13587	51.931	.12268
#1	10.118	.50870	1.0242	51.221	.51206	12.056	.51366
#2	10.105	.50967	1.0241	51.451	.51327	5.0810	.51361
#3	10.096	.51013	1.0248	51.399	.51206	16.731	.51255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 14:54:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.1089**	**10.233**	F **12.611**	**1.2368**	**.40848**	F **4.2685**	**1.0236**
Stddev	15.838	.040	.961	.0022	.00486	.0867	.0028
%RSD	173.88	.39557	7.6173	.17955	1.1908	2.0322	.27346
#1	-27.284	10.188	11.504	1.2385	.41385	4.2006	1.0226
#2	-1.7814	10.266	13.230	1.2343	.40723	4.2388	1.0214
#3	1.7388	10.247	13.098	1.2376	.40437	4.3662	1.0268
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0199**	**1.0121**	**.51560**	**1.0069**	**1.0087**	F **1.6545**
Stddev	.0016	.0020	.00125	.0062	.0007	.0757
%RSD	.15278	.19468	.24253	.61511	.06934	4.5746
#1	1.0188	1.0098	.51687	1.0026	1.0081	1.6242
#2	1.0192	1.0134	.51557	1.0140	1.0084	1.5986
#3	1.0217	1.0131	.51437	1.0042	1.0094	1.7406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**72615.**	**51847.**
Stddev	114.	363.
%RSD	.15767	.69938
#1	72532.	51904.
#2	72567.	51460.
#3	72746.	52178.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 14:58:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**.00352**	**.00025**	**.00000**	**.00033**	**.00000**	**-.02540**
Stddev	.00054	.00357	.00182	.0013	.00018	.0000	.00765
%RSD	58.956	101.29	727.33	32090.	53.333	898.44	30.100
#1	.00045	.00003	-.00173	.00133	.00019	.00002	-.02218
#2	.00079	.00717	.00185	-.00117	.00029	.00001	-.03413
#3	.00152	.00337	.00063	-.00017	.00053	-.00003	-.01990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00005**	**.00029**	**-.00028**	**.00011**	**-.03218**	**-.00181**
Stddev	.00014	.00014	.00029	.00036	.00174	.05752	.00167
%RSD	140.63	284.87	100.29	128.66	1556.9	178.74	91.851
#1	-.00026	.00014	.00055	-.00008	-.00179	.02991	.00007
#2	.00002	.00012	-.00002	-.00006	.00163	-.08364	-.00241
#3	-.00006	-.00011	.00033	-.00069	.00050	-.04281	-.00310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00434**	**-.00008**	**.00053**	**-.00836**	**-.00051**	F **-8.5960**	**.00205**
Stddev	.01389	.00031	.00010	.00522	.00076	7.4797	.00187
%RSD	320.28	381.29	17.986	62.390	150.33	87.013	91.498
#1	.00341	.00004	.00058	-.00883	-.00129	-6.6855	.00116
#2	-.02037	.00015	.00058	-.00292	.00024	-16.846	.00078
#3	.00395	-.00043	.00042	-.01332	-.00047	-2.2569	.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 14:58:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1.4223**	**-.16005**	F **6.9081**	**-.00135**	**.00112**	**-.08031**	**.00071**
Stddev	20.501	.02302	3.3314	.00124	.00064	.22945	.00056
%RSD	1441.4	14.385	48.225	92.081	57.267	285.70	78.465
#1	-22.198	-.13428	4.3231	-.00228	.00186	.07810	.00052
#2	11.866	-.17859	5.7335	.00006	.00068	-.34344	.00027
#3	14.598	-.16729	10.668	-.00183	.00083	.02440	.00134
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00033**	**.00131**	**-.00013**	**.00006**	F **.25596**
Stddev	.00012	.00112	.00053	.00037	.00006	.10062
%RSD	98.072	343.79	40.810	287.39	112.26	39.309
#1	-.00010	.00162	.00190	-.00029	.00003	.14248
#2	-.00024	-.00024	.00085	.00029	.00013	.29115
#3	-.00001	-.00040	.00119	-.00039	.00001	.33426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74188.**	**52141.**
Stddev	174.	502.
%RSD	.23514	.96224
#1	74218.	52649.
#2	74000.	52130.
#3	74345.	51646.

Approved: February 21, 2011

Sample Name: L1102036306 Acquired: 2/18/2011 15:01:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00582**	**51.129**	**.04784**	**.06641**	**.87819**	**.00302**	**296.27**
Stddev	.00079	.521	.00154	.00094	.00555	.00001	1.12
%RSD	13.512	1.0182	3.2200	1.4101	.63183	.47565	.37678
#1	.00510	50.610	.04633	.06534	.87443	.00301	295.32
#2	.00666	51.125	.04941	.06682	.87557	.00302	296.00
#3	.00571	51.651	.04780	.06708	.88456	.00304	297.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01045**	**.02772**	**.10108**	**1.4136**	**78.309**	**13.094**	**.06706**
Stddev	.00004	.00017	.00038	.0112	.370	.104	.00143
%RSD	.41566	.61512	.37847	.79251	.47224	.79422	2.1331
#1	.01042	.02753	.10079	1.4035	77.979	12.978	.06800
#2	.01044	.02775	.10095	1.4117	78.238	13.129	.06541
#3	.01050	.02787	.10152	1.4257	78.709	13.177	.06776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.165**	**5.8589**	**.00535**	**.99529**	**.07517**	F **21957.**	**1.3963**
Stddev	.128	.0178	.00008	.02619	.00081	271.	.0179
%RSD	.38733	.30413	1.4560	2.6313	1.0796	1.2328	1.2819
#1	33.046	5.8436	.00533	.98060	.07427	21710.	1.3777
#2	33.149	5.8545	.00529	.97974	.07538	21914.	1.3978
#3	33.301	5.8785	.00544	1.0255	.07586	22247.	1.4134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036306 Acquired: 2/18/2011 15:01:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.057**	F **394.91**	F **-3110.4**	**.02801**	**.00823**	**64.756**	**.05928**
Stddev	17.989	3.56	17.2	.00222	.00413	.712	.00065
%RSD	39.059	.90240	.55380	7.9264	50.135	1.0995	1.0919
#1	-41.522	391.58	-3098.7	.02549	.00759	64.001	.05895
#2	-65.879	394.49	-3102.3	.02887	.00446	64.853	.05887
#3	-30.769	398.67	-3130.2	.02967	.01264	65.415	.06003
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25862**	**.29368**	**.00971**	**.09586**	**2.1850**	**12.260**
Stddev	.00106	.00037	.00172	.00039	.0201	.015
%RSD	.40945	.12660	17.756	.40568	.92118	.11931
#1	.25741	.29346	.00886	.09541	2.1656	12.266
#2	.25938	.29411	.01169	.09606	2.1836	12.243
#3	.25907	.29347	.00858	.09611	2.2058	12.270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73292.**	**54424.**
Stddev	89.	316.
%RSD	.12125	.57984
#1	73380.	54294.
#2	73202.	54784.
#3	73294.	54194.

Approved: February 21, 2011

Sample Name: L1102036307 Acquired: 2/18/2011 15:05:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00269**	**50.749**	**.05216**	**.05030**	**.59926**	**.00351**	**332.41**
Stddev	.00161	.542	.00121	.00082	.00388	.00003	2.10
%RSD	59.789	1.0674	2.3282	1.6244	.64741	.89375	.63149
#1	.00345	50.429	.05357	.04983	.59536	.00350	330.21
#2	.00084	51.375	.05142	.05124	.59930	.00354	332.62
#3	.00377	50.444	.05151	.04982	.60312	.00348	334.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00673**	**.02621**	**.08994**	**.63923**	**69.243**	**10.225**	**.06946**
Stddev	.00016	.00035	.00151	.00987	.582	.052	.00292
%RSD	2.3596	1.3259	1.6816	1.5439	.84022	.50810	4.2066
#1	.00655	.02588	.08989	.62975	68.637	10.233	.06968
#2	.00685	.02619	.09148	.63851	69.297	10.169	.06644
#3	.00680	.02657	.08846	.64945	69.797	10.272	.07227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.066**	**5.2962**	**.00340**	**.79237**	**.06762**	F **10640.**	**.68641**
Stddev	.206	.0344	.00031	.01319	.00140	172.	.01271
%RSD	.62296	.65001	9.0221	1.6645	2.0646	1.6177	1.8511
#1	32.831	5.2636	.00314	.79798	.06627	10473.	.67445
#2	33.153	5.2929	.00374	.80183	.06751	10632.	.68504
#3	33.214	5.3322	.00333	.77731	.06906	10817.	.69975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036307 Acquired: 2/18/2011 15:05:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.052**	F **414.75**	F **-2259.8**	**.01039**	**.00568**	**61.513**	**.02380**
Stddev	29.034	6.85	32.8	.00148	.00271	.867	.00041
%RSD	61.705	1.6520	1.4498	14.297	47.686	1.4093	1.7288
#1	-36.951	408.29	-2228.2	.00875	.00878	60.692	.02343
#2	-79.787	414.03	-2257.5	.01165	.00375	61.427	.02374
#3	-24.419	421.94	-2293.6	.01076	.00451	62.419	.02425
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19222**	**.20152**	**.00866**	**.10164**	**1.2224**	**13.843**
Stddev	.00174	.00244	.00062	.00159	.0193	.338
%RSD	.90638	1.2110	7.1882	1.5667	1.5792	2.4411
#1	.19033	.19975	.00798	.10118	1.2041	13.837
#2	.19256	.20430	.00919	.10341	1.2205	14.183
#3	.19376	.20050	.00882	.10032	1.2426	13.507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**72751.**	**53177.**
Stddev	9.	449.
%RSD	.01287	.84402
#1	72760.	53135.
#2	72752.	52751.
#3	72741.	53645.

Approved: February 21, 2011

Sample Name: L1102036308 Acquired: 2/18/2011 15:08:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00688**	**50.160**	**.04677**	**.05859**	**.52164**	**.00250**	**307.02**
Stddev	.00041	.338	.00120	.00152	.00326	.00003	1.72
%RSD	5.9975	.67447	2.5642	2.5895	.62512	1.1766	.55997
#1	.00678	49.859	.04703	.05688	.51896	.00248	305.09
#2	.00652	50.526	.04546	.05910	.52069	.00249	307.59
#3	.00733	50.095	.04782	.05979	.52527	.00253	308.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00637**	**.02303**	**.08188**	**.44034**	**66.842**	**10.037**	**.06513**
Stddev	.00024	.00037	.00021	.00787	.387	.021	.00320
%RSD	3.7125	1.6201	.25226	1.7878	.57961	.20532	4.9207
#1	.00616	.02268	.08209	.43262	66.528	10.034	.06834
#2	.00632	.02298	.08187	.44004	66.724	10.018	.06193
#3	.00662	.02342	.08167	.44836	67.275	10.059	.06511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.464**	**4.5528**	**.00306**	**.80517**	**.05974**	F **10881.**	**.56687**
Stddev	.166	.0303	.00005	.00934	.00131	168.	.00977
%RSD	.56313	.66632	1.6357	1.1598	2.1898	1.5410	1.7230
#1	29.279	4.5188	.00301	.80411	.05824	10726.	.55814
#2	29.516	4.5625	.00311	.79641	.06061	10857.	.56506
#3	29.598	4.5771	.00307	.81499	.06038	11059.	.57742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036308 Acquired: 2/18/2011 15:08:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-37.312**	F **399.33**	F **-2815.4**	**.00415**	**.00538**	**68.370**	**.01881**
Stddev	5.795	5.92	37.5	.00271	.00355	1.202	.00030
%RSD	15.531	1.4823	1.3337	65.309	65.851	1.7587	1.5706
#1	-33.240	393.40	-2776.4	.00372	.00160	67.259	.01881
#2	-34.749	399.36	-2818.6	.00168	.00863	68.204	.01852
#3	-43.947	405.24	-2851.3	.00706	.00591	69.647	.01911
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20882**	**.39888**	**.00978**	**.10116**	**1.1732**	**17.865**
Stddev	.00169	.00516	.00072	.00074	.0187	.302
%RSD	.80947	1.2941	7.3297	.72828	1.5934	1.6896
#1	.20690	.39462	.01018	.10101	1.1553	17.748
#2	.20947	.39741	.00895	.10196	1.1718	18.207
#3	.21009	.40462	.01021	.10052	1.1926	17.639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76392.**	**53913.**
Stddev	343.	683.
%RSD	.44886	1.2661
#1	76786.	53727.
#2	76230.	53343.
#3	76160.	54670.

Approved: February 21, 2011

Sample Name: L1102036309 Acquired: 2/18/2011 15:12:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**46.195**	**.04757**	**.05358**	**.50051**	**.00226**	**275.82**
Stddev	.00033	.636	.00192	.00109	.00459	.00002	2.11
%RSD	6.5033	1.3768	4.0335	2.0426	.91626	.94753	.76405
#1	.00489	46.072	.04840	.05385	.49571	.00224	273.73
#2	.00538	45.629	.04894	.05452	.50095	.00225	275.79
#3	.00477	46.884	.04538	.05238	.50485	.00228	277.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00597**	**.02201**	**.07248**	**.40996**	**63.448**	**10.630**	**.06311**
Stddev	.00008	.00018	.00071	.00667	.710	.117	.00083
%RSD	1.3021	.81742	.98456	1.6261	1.1198	1.1005	1.3156
#1	.00590	.02189	.07267	.40390	62.695	10.508	.06370
#2	.00595	.02192	.07169	.40887	63.541	10.642	.06348
#3	.00605	.02222	.07308	.41710	64.107	10.741	.06216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.339**	**4.5813**	**.00249**	**1.1023**	**.05713**	F **7388.5**	**.56241**
Stddev	.276	.0380	.00024	.0261	.00118	85.5	.00752
%RSD	.94156	.83038	9.8070	2.3709	2.0573	1.1568	1.3364
#1	29.053	4.5434	.00244	1.0729	.05584	7301.6	.55444
#2	29.359	4.5810	.00276	1.1230	.05814	7391.6	.56342
#3	29.604	4.6194	.00228	1.1109	.05741	7472.4	.56937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036309 Acquired: 2/18/2011 15:12:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.229**	F **365.91**	F **-2641.0**	**.00093**	**.00893**	**47.004**	**.00970**
Stddev	9.357	6.05	55.2	.00194	.00304	.807	.00021
%RSD	15.797	1.6538	2.0898	208.50	34.029	1.7160	2.1646
#1	-68.714	360.14	-2592.7	.00286	.00544	46.343	.00946
#2	-50.006	365.39	-2629.1	-.00102	.01102	46.767	.00986
#3	-58.967	372.21	-2701.2	.00095	.01033	47.903	.00978
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19220**	**.38928**	**.00872**	**.09318**	**.89189**	**16.286**
Stddev	.00142	.00371	.00142	.00086	.01332	.149
%RSD	.73649	.95323	16.281	.92662	1.4934	.91699
#1	.19109	.38566	.00761	.09309	.87862	16.338
#2	.19172	.38912	.00823	.09237	.89181	16.118
#3	.19380	.39307	.01032	.09409	.90526	16.403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77518.**	**57718.**
Stddev	133.	146.
%RSD	.17188	.25217
#1	77500.	57747.
#2	77395.	57847.
#3	77660.	57560.

Approved: February 21, 2011

Sample Name: L1102036310 Acquired: 2/18/2011 15:15:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00371**	**60.002**	**.05129**	**.04946**	**.52537**	**.00374**	**341.55**
Stddev	.00059	.894	.00186	.00069	.00382	.00008	2.12
%RSD	15.926	1.4894	3.6193	1.3874	.72782	2.1549	.62047
#1	.00308	59.071	.05231	.04881	.52112	.00368	339.19
#2	.00378	60.081	.04915	.04939	.52646	.00371	342.17
#3	.00425	60.853	.05242	.05018	.52852	.00383	343.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00618**	**.02620**	**.10679**	**.30331**	**71.529**	**11.617**	**.08126**
Stddev	.00015	.00048	.00150	.00147	.539	.075	.00102
%RSD	2.3867	1.8419	1.4087	.48606	.75351	.64267	1.2499
#1	.00631	.02597	.10540	.30227	70.934	11.531	.08220
#2	.00621	.02588	.10658	.30266	71.666	11.658	.08138
#3	.00602	.02676	.10839	.30500	71.986	11.662	.08018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.067**	**4.7955**	**.00260**	**1.1309**	**.06710**	F **8743.3**	**.59252**
Stddev	.165	.0308	.00027	.0314	.00039	54.4	.00585
%RSD	.47193	.64149	10.198	2.7762	.58852	.62241	.98784
#1	34.881	4.7616	.00272	1.0988	.06739	8697.7	.58604
#2	35.123	4.8031	.00230	1.1325	.06665	8728.8	.59410
#3	35.198	4.8217	.00279	1.1615	.06727	8803.6	.59742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036310 Acquired: 2/18/2011 15:15:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.191**	F **405.31**	F **-1959.0**	**.00896**	**.00681**	**58.254**	**.01406**
Stddev	5.995	2.38	5.1	.00123	.00401	.264	.00030
%RSD	9.9595	.58632	.26247	13.760	58.921	.45280	2.0980
#1	-60.196	402.99	-1953.1	.00779	.00782	58.016	.01375
#2	-54.194	405.20	-1961.7	.00884	.00239	58.207	.01434
#3	-66.183	407.74	-1962.2	.01025	.01021	58.537	.01410
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16617**	**.26932**	**.00920**	**.11118**	**1.0356**	**17.392**
Stddev	.00058	.00300	.00100	.00088	.0071	.256
%RSD	.34780	1.1128	10.839	.78858	.68576	1.4692
#1	.16555	.26926	.01005	.11032	1.0291	17.100
#2	.16629	.26635	.00946	.11115	1.0345	17.502
#3	.16669	.27234	.00810	.11207	1.0432	17.574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76525.**	**56298.**
Stddev	214.	108.
%RSD	.27976	.19207
#1	76644.	56385.
#2	76654.	56177.
#3	76278.	56332.

Approved: February 21, 2011

Sample Name: L1102036311 Acquired: 2/18/2011 15:19:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00584**	**55.972**	**.06222**	**.05724**	**.52224**	**.00254**	**349.09**
Stddev	.00059	.430	.00135	.00069	.00651	.00005	4.35
%RSD	10.094	.76847	2.1679	1.2003	1.2465	1.9280	1.2475
#1	.00636	55.482	.06070	.05783	.51608	.00249	344.75
#2	.00596	56.149	.06267	.05740	.52160	.00254	349.06
#3	.00520	56.286	.06328	.05649	.52905	.00259	353.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00562**	**.02463**	**.08246**	**.50382**	**71.243**	**13.076**	**.07200**
Stddev	.00005	.00050	.00049	.00980	.910	.107	.00394
%RSD	.85135	2.0160	.58841	1.9444	1.2777	.81787	5.4654
#1	.00559	.02422	.08190	.49391	70.314	12.964	.07506
#2	.00559	.02450	.08270	.50406	71.282	13.088	.06756
#3	.00568	.02518	.08278	.51350	72.133	13.177	.07338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.931**	**5.2031**	**.00257**	**.36137**	**.06306**	F **5799.5**	**.79821**
Stddev	.302	.0681	.00025	.01465	.00063	107.7	.01528
%RSD	1.0436	1.3080	9.9039	4.0545	1.0008	1.8564	1.9139
#1	28.634	5.1358	.00229	.36776	.06234	5684.3	.78224
#2	28.922	5.2015	.00279	.34461	.06348	5816.5	.79971
#3	29.238	5.2719	.00262	.37174	.06337	5897.6	.81268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036311 Acquired: 2/18/2011 15:19:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.528**	F **437.40**	F **-2274.8**	**.00385**	**.00523**	**56.126**	**.02818**
Stddev	8.928	9.17	35.7	.00137	.00143	.845	.00065
%RSD	14.511	2.0959	1.5691	35.580	27.373	1.5057	2.3075
#1	-51.257	428.19	-2238.7	.00280	.00532	55.322	.02751
#2	-67.436	437.50	-2275.5	.00335	.00375	56.050	.02823
#3	-65.891	446.52	-2310.1	.00540	.00660	57.007	.02880
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17107**	**.59086**	**.01074**	**.10840**	**.94016**	**20.044**
Stddev	.00240	.00731	.00087	.00042	.01899	.402
%RSD	1.4037	1.2364	8.1277	.38314	2.0196	2.0033
#1	.16860	.58432	.01120	.10794	.92081	19.815
#2	.17121	.58952	.01128	.10852	.94090	19.809
#3	.17340	.59874	.00973	.10874	.95876	20.507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76994.**	**57543.**
Stddev	483.	137.
%RSD	.62707	.23749
#1	77478.	57510.
#2	76993.	57426.
#3	76512.	57693.

Approved: February 21, 2011

Sample Name: L1102036312 Acquired: 2/18/2011 15:22:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00527**	**49.916**	**.04709**	**.05017**	**.50919**	**.00235**	**416.95**
Stddev	.00027	.568	.00190	.00078	.00552	.00007	3.59
%RSD	5.1666	1.1386	4.0344	1.5626	1.0832	2.8682	.86012
#1	.00531	49.321	.04622	.05072	.50390	.00227	413.47
#2	.00498	49.975	.04578	.04927	.50875	.00238	416.74
#3	.00552	50.453	.04927	.05051	.51491	.00240	420.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00546**	**.02351**	**.07945**	**.35880**	**66.592**	**12.786**	**.07301**
Stddev	.00020	.00022	.00174	.00524	.712	.125	.00192
%RSD	3.5954	.95413	2.1867	1.4603	1.0692	.97587	2.6254
#1	.00524	.02336	.07779	.35358	65.879	12.708	.07082
#2	.00553	.02341	.07932	.35876	66.595	12.720	.07439
#3	.00562	.02377	.08125	.36406	67.303	12.930	.07382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.751**	**4.9952**	**.00240**	**.29037**	**.05893**	F **6552.4**	**.54237**
Stddev	.303	.0424	.00005	.01602	.00083	121.0	.01000
%RSD	.98521	.84900	1.9402	5.5177	1.4026	1.8464	1.8434
#1	30.458	4.9552	.00241	.27447	.05811	6433.9	.53116
#2	30.733	4.9908	.00243	.29014	.05894	6547.6	.54557
#3	31.063	5.0396	.00234	.30651	.05976	6675.7	.55037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036312 Acquired: 2/18/2011 15:22:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-70.658**	F **492.84**	F **-1865.8**	**.00039**	**.00923**	**69.620**	**.01623**
Stddev	6.243	7.99	20.3	.00255	.00424	.886	.00029
%RSD	8.8362	1.6214	1.0868	661.50	45.970	1.2733	1.7742
#1	-69.708	484.49	-1843.4	-.00256	.01367	68.932	.01590
#2	-77.322	493.62	-1870.9	.00169	.00522	69.307	.01643
#3	-64.944	500.41	-1883.0	.00203	.00879	70.620	.01637
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20106**	**.47458**	**.01008**	**.10372**	**.86773**	**19.443**
Stddev	.00102	.00710	.00060	.00204	.01524	.116
%RSD	.50620	1.4967	5.9625	1.9700	1.7564	.59661
#1	.20024	.46643	.00968	.10150	.85198	19.331
#2	.20073	.47942	.01077	.10414	.86881	19.435
#3	.20220	.47790	.00979	.10553	.88240	19.563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74579.**	**57313.**
Stddev	517.	415.
%RSD	.69300	.72385
#1	75153.	57780.
#2	74432.	57175.
#3	74151.	56985.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 15:26:15 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38943**	**9.6247**	**.40307**	**.48632**	**1.0039**	**.04831**	**9.9884**
Stddev	.00274	.0748	.00239	.00420	.0043	.00037	.0398
%RSD	.70273	.77722	.59208	.86451	.42587	.77463	.39893
#1	.38996	9.5758	.40222	.48657	.99902	.04827	9.9563
#2	.39186	9.7108	.40122	.49040	1.0062	.04870	9.9758
#3	.38647	9.5875	.40576	.48200	1.0066	.04795	10.033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05026**	**.20213**	**.48294**	**.49990**	**4.0178**	**50.260**	**1.0063**
Stddev	.00026	.00016	.00378	.00139	.0289	.232	.0010
%RSD	.52369	.07887	.78260	.27754	.71960	.46090	.09720
#1	.05007	.20218	.48220	.50032	3.9856	50.000	1.0054
#2	.05056	.20225	.48704	.49835	4.0265	50.446	1.0062
#3	.05015	.20195	.47959	.50102	4.0414	50.332	1.0074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9021**	**.50205**	**1.0081**	**50.489**	**.50435**	F **11.997**	**.50490**
Stddev	.0441	.00215	.0001	.285	.00051	10.555	.00200
%RSD	.44513	.42843	.00789	.56469	.10144	87.983	.39615
#1	9.8518	.49959	1.0080	50.161	.50464	23.752	.50462
#2	9.9206	.50296	1.0081	50.622	.50466	8.9046	.50305
#3	9.9340	.50359	1.0082	50.683	.50376	3.3329	.50702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 15:26:15 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.420**	**10.019**	F **12.614**	**1.2172**	**.40608**	F **3.8672**	**1.0060**
Stddev	2.614	.040	1.394	.0026	.00313	.1486	.0002
%RSD	5.8853	.39767	11.052	.21525	.77013	3.8421	.01737
#1	-45.251	10.038	12.621	1.2178	.40486	3.7162	1.0058
#2	-41.492	10.045	14.005	1.2195	.40375	3.8722	1.0059
#3	-46.518	9.9731	11.217	1.2144	.40964	4.0133	1.0062
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0083**	**.99593**	**.50617**	**.97339**	**.98955**	F **1.6503**
Stddev	.0022	.00349	.00192	.00702	.00082	.0460
%RSD	.22022	.35090	.37989	.72156	.08327	2.7880
#1	1.0062	.99195	.50428	.97310	.98967	1.6370
#2	1.0106	.99852	.50812	.98055	.99030	1.7015
#3	1.0081	.99731	.50612	.96651	.98867	1.6124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76039.**	**55229.**
Stddev	84.	302.
%RSD	.11013	.54719
#1	76127.	55475.
#2	76032.	54892.
#3	75960.	55319.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 15:29:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**-.00473**	**.00128**	**-.00110**	**-.00018**	**.00003**	**-.01289**
Stddev	.00029	.00200	.00210	.00164	.00028	.00002	.00396
%RSD	48.331	42.391	164.08	148.83	159.72	58.504	30.737
#1	.00039	-.00358	-.00112	-.00095	-.00019	.00004	-.01133
#2	.00092	-.00704	.00280	-.00282	.00011	.00001	-.00995
#3	.00047	-.00356	.00216	.00046	-.00045	.00003	-.01740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00006**	**-.00077**	**-.00088**	**.00538**	**-.05417**	**-.00219**
Stddev	.0001	.00007	.00030	.00041	.00368	.06993	.00191
%RSD	2274.4	124.61	38.484	47.188	68.405	129.08	87.432
#1	-.00003	.00001	-.00059	-.00078	.00115	.02635	-.00311
#2	-.00008	.00002	-.00111	-.00052	.00713	-.09965	-.00346
#3	.00010	.00014	-.00061	-.00133	.00787	-.08923	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01678**	**.00027**	**.00051**	**.03464**	**.00041**	F **-3.2559**	**.00289**
Stddev	.01748	.00030	.00035	.00462	.00029	1.5313	.00028
%RSD	104.20	111.39	69.179	13.331	69.958	47.033	9.7093
#1	-.03289	.00042	.00061	.03425	.00052	-4.8111	.00294
#2	-.01926	-.00008	.00080	.03944	.00008	-1.7496	.00314
#3	.00181	.00046	.00012	.03023	.00062	-3.2069	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 15:29:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-36.938**	**-.11769**	F **4.0819**	**-.00254**	**.00313**	**-.27487**	**.00040**
Stddev	15.765	.00689	2.1417	.00198	.00197	.08978	.00038
%RSD	42.681	5.8584	52.467	77.933	62.792	32.664	97.023
#1	-53.721	-.11383	3.4481	-.00163	.00533	-.34507	.00011
#2	-34.653	-.11359	6.4690	-.00118	.00252	-.30583	.00083
#3	-22.440	-.12565	2.3287	-.00481	.00154	-.17370	.00024
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00050**	**.00241**	**-.00001**	**.00005**	F **.46488**
Stddev	.00008	.00148	.00212	.00030	.00000	.08805
%RSD	60.316	297.00	87.980	2790.9	6.4560	18.939
#1	-.00010	-.00118	.00412	.00017	.00004	.56019
#2	-.00008	.00108	.00004	.00016	.00004	.44787
#3	-.00022	.00160	.00306	-.00035	.00005	.38658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75683.**	**54507.**
Stddev	506.	40.
%RSD	.66875	.07393
#1	75903.	54551.
#2	76041.	54496.
#3	75104.	54473.

Approved: February 21, 2011

Sample Name: L1102036313 Acquired: 2/18/2011 15:33:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**45.045**	**.04423**	**.04382**	**.40279**	**.00214**	**559.14**
Stddev	.00039	.310	.00086	.00119	.00317	.00003	4.67
%RSD	9.0982	.68721	1.9409	2.7174	.78738	1.5300	.83561
#1	.00393	44.713	.04330	.04281	.39977	.00210	554.35
#2	.00416	45.094	.04440	.04352	.40251	.00214	559.38
#3	.00469	45.327	.04499	.04514	.40609	.00217	563.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00431**	**.02078**	**.06671**	**.31865**	**58.163**	**10.811**	**.07188**
Stddev	.00001	.00038	.00024	.00454	.499	.096	.00193
%RSD	.22034	1.8411	.36360	1.4261	.85732	.88394	2.6890
#1	.00430	.02047	.06647	.31398	57.716	10.711	.07040
#2	.00431	.02066	.06695	.31892	58.072	10.821	.07117
#3	.00432	.02121	.06672	.32305	58.701	10.901	.07407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.761**	**3.9811**	**.00258**	**.21099**	**.05177**	F **5260.5**	**.41514**
Stddev	.133	.0296	.00033	.01149	.00158	89.6	.00870
%RSD	.55881	.74245	12.612	5.4448	3.0481	1.7025	2.0966
#1	23.614	3.9521	.00224	.19790	.05044	5167.4	.40573
#2	23.796	3.9800	.00262	.21566	.05137	5268.0	.41677
#3	23.873	4.0112	.00288	.21940	.05351	5346.1	.42290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036313 Acquired: 2/18/2011 15:33:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-62.710**	F **638.93**	F **-1817.5**	**.00315**	**.00812**	**73.896**	**.01220**
Stddev	17.901	10.02	23.3	.00089	.00348	.830	.00024
%RSD	28.546	1.5676	1.2829	28.365	42.868	1.1233	1.9420
#1	-42.166	628.56	-1793.6	.00284	.01172	73.092	.01194
#2	-71.005	639.70	-1818.8	.00415	.00787	73.846	.01240
#3	-74.959	648.54	-1840.2	.00244	.00477	74.750	.01225
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18520**	**.40943**	**.00806**	**.09857**	**.66253**	**16.889**
Stddev	.00228	.00166	.00163	.00103	.01052	.360
%RSD	1.2332	.40549	20.205	1.0405	1.5873	2.1291
#1	.18292	.40762	.00848	.09770	.65186	16.474
#2	.18517	.41088	.00944	.09831	.66284	17.100
#3	.18749	.40980	.00627	.09970	.67288	17.093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73559.**	**54623.**
Stddev	99.	39.
%RSD	.13523	.07119
#1	73446.	54604.
#2	73597.	54597.
#3	73633.	54668.

Approved: February 21, 2011

Sample Name: L1102036314 Acquired: 2/18/2011 15:37:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00358**	**52.372**	**.05723**	**.05697**	**.56905**	**.00361**	**293.06**
Stddev	.00067	.937	.00150	.00069	.01218	.00007	6.76
%RSD	18.563	1.7884	2.6237	1.2186	2.1398	1.8106	2.3060
#1	.00305	51.294	.05568	.05654	.55650	.00353	286.38
#2	.00336	52.834	.05733	.05660	.56984	.00363	292.90
#3	.00433	52.988	.05867	.05777	.58081	.00365	299.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00779**	**.02890**	**.08583**	**.66888**	**72.141**	**13.224**	**.06918**
Stddev	.00033	.00084	.00153	.02173	1.608	.269	.00489
%RSD	4.1733	2.9073	1.7782	3.2487	2.2293	2.0357	7.0701
#1	.00747	.02807	.08411	.64660	70.505	12.941	.06405
#2	.00780	.02888	.08635	.67001	72.197	13.253	.06972
#3	.00812	.02975	.08703	.69002	73.720	13.477	.07378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.447**	**5.9037**	**.00302**	**.21950**	**.07328**	F **11415.**	**.80122**
Stddev	.724	.1389	.00076	.00697	.00222	334.	.02615
%RSD	2.3008	2.3519	25.062	3.1773	3.0320	2.9219	3.2643
#1	30.742	5.7646	.00215	.22441	.07150	11086.	.77514
#2	31.412	5.9041	.00353	.21152	.07256	11406.	.80107
#3	32.187	6.0423	.00339	.22258	.07577	11753.	.82744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036314 Acquired: 2/18/2011 15:37:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.441**	F **423.08**	F **-3117.9**	**.00645**	**.00527**	**74.285**	**.03270**
Stddev	11.396	12.67	90.6	.00007	.00224	2.329	.00106
%RSD	20.934	2.9955	2.9069	1.1089	42.586	3.1345	3.2266
#1	-58.112	410.40	-3028.1	.00647	.00463	72.028	.03150
#2	-41.661	423.10	-3116.1	.00637	.00776	74.149	.03315
#3	-63.549	435.75	-3209.4	.00651	.00341	76.679	.03346
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17312**	**.20831**	**.01054**	**.10431**	**1.4269**	**17.410**
Stddev	.00435	.00757	.00097	.00133	.0441	.357
%RSD	2.5141	3.6335	9.1847	1.2750	3.0932	2.0525
#1	.16898	.20195	.00953	.10277	1.3823	17.020
#2	.17273	.20628	.01064	.10512	1.4279	17.722
#3	.17765	.21668	.01146	.10502	1.4706	17.488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74715.**	**55482.**
Stddev	433.	410.
%RSD	.58002	.73969
#1	75162.	55755.
#2	74685.	55011.
#3	74297.	55681.

Approved: February 21, 2011

L1102036441

Sample Name: ~~L1102036341~~ Acquired: 2/18/2011 15:40:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00248**	**57.302**	**.04010**	**.04470**	**.50947**	**.00352**	**353.30**
Stddev	.00075	.412	.00303	.00116	.00248	.00002	.78
%RSD	30.256	.71827	7.5471	2.6013	.48753	.59180	.22049
#1	.00183	57.683	.04313	.04585	.50661	.00350	352.42
#2	.00330	57.359	.04010	.04471	.51070	.00352	353.63
#3	.00230	56.866	.03707	.04353	.51110	.00354	353.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00414**	**.02584**	**.08724**	**.18086**	**67.189**	**15.139**	**.07168**
Stddev	.00002	.00018	.00099	.00028	.294	.076	.00183
%RSD	.46634	.70258	1.1401	.15352	.43768	.50078	2.5525
#1	.00416	.02572	.08823	.18078	66.851	15.051	.06990
#2	.00413	.02605	.08624	.18116	67.390	15.188	.07158
#3	.00412	.02576	.08726	.18062	67.324	15.177	.07356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.964**	**4.1169**	**.00182**	**.50210**	**.06314**	F **7295.2**	**.26020**
Stddev	.048	.0105	.00048	.02929	.00042	17.3	.00102
%RSD	.17223	.25591	26.602	5.8338	.66319	.23685	.39297
#1	27.911	4.1048	.00218	.46931	.06362	7296.1	.25919
#2	27.978	4.1237	.00127	.51135	.06287	7277.5	.26019
#3	28.004	4.1223	.00202	.52566	.06292	7312.1	.26123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

L1102036441

Sample Name: ~~L1102036341~~ Acquired: 2/18/2011 15:40:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.415**	F **387.86**	F **-1350.0**	**.00278**	**.00684**	**69.688**	**.00521**
Stddev	12.656	.58	7.7	.00166	.00533	.373	.00019
%RSD	31.316	.14973	.57245	59.844	77.934	.53579	3.7127
#1	-33.249	387.73	-1346.5	.00462	.00529	69.779	.00542
#2	-55.029	387.36	-1358.9	.00233	.00245	69.278	.00516
#3	-32.968	388.50	-1344.7	.00139	.01278	70.008	.00504
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16608**	**.21577**	**.00938**	**.10644**	**.57152**	**17.568**
Stddev	.00099	.00021	.00225	.00103	.00064	.173
%RSD	.59477	.09523	24.012	.97035	.11158	.98450
#1	.16498	.21567	.00678	.10760	.57115	17.487
#2	.16637	.21600	.01072	.10561	.57114	17.450
#3	.16689	.21563	.01064	.10611	.57225	17.767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74959.**	**54628.**
Stddev	339.	358.
%RSD	.45217	.65518
#1	75183.	54258.
#2	75124.	54973.
#3	74569.	54653.

Approved: February 21, 2011

L1102036442

Sample Name: ~~L1102036342~~ Acquired: 2/18/2011 15:44:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**64.466**	**.03521**	**.05837**	**.56420**	**.00255**	**300.12**
Stddev	.00071	.662	.00097	.00151	.00166	.00005	.83
%RSD	15.976	1.0269	2.7573	2.5912	.29459	1.7876	.27742
#1	.00474	63.807	.03570	.06008	.56289	.00251	299.48
#2	.00361	64.459	.03583	.05721	.56365	.00254	299.82
#3	.00490	65.131	.03409	.05782	.56607	.00260	301.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00363**	**.02574**	**.07228**	**.22994**	**63.631**	**17.270**	**.07116**
Stddev	.00021	.00016	.00042	.00061	.184	.089	.00312
%RSD	5.9173	.63003	.58729	.26720	.28991	.51750	4.3907
#1	.00353	.02559	.07183	.22941	63.449	17.216	.06785
#2	.00347	.02573	.07234	.23061	63.628	17.221	.07405
#3	.00387	.02591	.07267	.22979	63.818	17.373	.07158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.692**	**3.0003**	**.00161**	**.34171**	**.05703**	F **7224.4**	**.21910**
Stddev	.143	.0111	.00005	.00253	.00048	22.7	.00128
%RSD	.57993	.36950	2.9716	.73964	.83943	.31464	.58540
#1	24.531	2.9934	.00164	.34031	.05730	7211.2	.22020
#2	24.741	2.9945	.00155	.34462	.05647	7211.3	.21769
#3	24.805	3.0131	.00163	.34018	.05731	7250.6	.21941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

L1102036442

Sample Name: ~~L1102036342~~ Acquired: 2/18/2011 15:44:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-53.404**	F **354.41**	F **-1826.3**	**-.00208**	**.00246**	**58.278**	**.00681**
Stddev	12.235	1.18	5.2	.00084	.00352	.284	.00045
%RSD	22.910	.33300	.28236	40.154	143.23	.48759	6.6362
#1	-62.994	353.13	-1820.3	-.00305	.00344	58.123	.00633
#2	-39.625	354.65	-1829.4	-.00163	.00539	58.606	.00689
#3	-57.592	355.45	-1829.1	-.00157	-.00145	58.104	.00722
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20100**	**.48835**	**.00685**	**.09994**	**.41386**	**22.151**
Stddev	.00033	.00220	.00153	.00154	.00135	.024
%RSD	.16541	.44978	22.383	1.5387	.32632	.10990
#1	.20122	.48706	.00648	.09836	.41241	22.170
#2	.20062	.48710	.00554	.10003	.41408	22.159
#3	.20117	.49088	.00854	.10143	.41508	22.123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74055.**	**55236.**
Stddev	421.	601.
%RSD	.56823	1.0882
#1	74377.	55912.
#2	74209.	55031.
#3	73579.	54763.

Approved: February 21, 2011

L1102036443

Sample Name: ~~L1102036343~~ Acquired: 2/18/2011 15:47:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00278**	**67.333**	**.03163**	**.04939**	**.55613**	**.00310**	**271.82**
Stddev	.00073	.955	.00105	.00064	.00285	.00002	.90
%RSD	26.335	1.4177	3.3108	1.2862	.51316	.58637	.33227
#1	.00334	66.323	.03170	.04944	.55298	.00308	270.81
#2	.00304	68.221	.03055	.05000	.55687	.00311	272.11
#3	.00195	67.454	.03264	.04873	.55855	.00311	272.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00297**	**.02779**	**.07635**	**.15066**	**67.740**	**16.744**	**.06845**
Stddev	.00033	.00014	.00142	.00200	.257	.108	.00280
%RSD	11.104	.51941	1.8636	1.3249	.37992	.64234	4.0938
#1	.00313	.02765	.07563	.14900	67.494	16.620	.06764
#2	.00259	.02778	.07799	.15010	67.718	16.810	.06614
#3	.00318	.02793	.07544	.15287	68.007	16.801	.07157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.662**	**3.0333**	**.00103**	**.42367**	**.06174**	F **5217.2**	**.16841**
Stddev	.052	.0102	.00006	.01945	.00085	40.2	.00177
%RSD	.19665	.33569	5.9937	4.5903	1.3826	.77028	1.0518
#1	26.603	3.0249	.00110	.44522	.06078	5187.6	.16694
#2	26.677	3.0304	.00103	.40742	.06204	5200.9	.17037
#3	26.704	3.0446	.00097	.41837	.06240	5262.9	.16791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

L1102036443

Sample Name: ~~L1102036343~~ Acquired: 2/18/2011 15:47:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.552**	F **312.43**	F **-1063.7**	**-.00203**	**.00616**	**66.504**	**.00488**
Stddev	10.664	3.40	10.0	.00210	.00073	.386	.00055
%RSD	21.095	1.0894	.94035	103.13	11.877	.58058	11.320
#1	-42.144	309.22	-1053.5	-.00261	.00691	66.176	.00424
#2	-46.965	312.08	-1064.0	.00029	.00612	66.408	.00515
#3	-62.547	316.00	-1073.5	-.00378	.00545	66.930	.00524
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18074**	**.38105**	**.00652**	**.10074**	**.35410**	**26.467**
Stddev	.00041	.00157	.00093	.00080	.00434	.530
%RSD	.22565	.41135	14.277	.79790	1.2260	2.0008
#1	.18033	.37929	.00557	.09983	.35015	26.008
#2	.18075	.38229	.00657	.10102	.35340	26.347
#3	.18114	.38157	.00743	.10137	.35875	27.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73456.**	**54545.**
Stddev	435.	401.
%RSD	.59160	.73451
#1	73837.	54955.
#2	73549.	54154.
#3	72983.	54526.

Approved: February 21, 2011

L1102036444

Sample Name: ~~L1102036344~~ Acquired: 2/18/2011 15:51:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00280**	**58.301**	**.03561**	**.05265**	**.52735**	**.00313**	**274.83**
Stddev	.00078	.402	.00144	.00116	.00200	.00002	.25
%RSD	27.910	.68882	4.0468	2.2013	.37969	.73117	.08950
#1	.00288	58.414	.03563	.05303	.52889	.00314	275.02
#2	.00354	57.854	.03416	.05135	.52807	.00311	274.55
#3	.00198	58.633	.03704	.05357	.52508	.00315	274.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00431**	**.02469**	**.07399**	**.25102**	**62.351**	**15.889**	**.06739**
Stddev	.00004	.00004	.00084	.00116	.264	.028	.00020
%RSD	.90115	.17335	1.1356	.46353	.42365	.17755	.30309
#1	.00435	.02466	.07465	.25026	62.559	15.863	.06746
#2	.00430	.02467	.07305	.25044	62.439	15.919	.06716
#3	.00427	.02474	.07427	.25236	62.054	15.886	.06755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.991**	**3.5255**	**.00180**	**.43770**	**.05831**	F **8582.7**	**.23972**
Stddev	.048	.0014	.00032	.00902	.00071	10.6	.00227
%RSD	.18558	.03908	18.002	2.0615	1.2204	.12336	.94787
#1	26.003	3.5270	.00155	.42976	.05752	8591.4	.24058
#2	25.938	3.5254	.00169	.44751	.05891	8585.8	.24144
#3	26.033	3.5242	.00217	.43582	.05849	8570.9	.23714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

L1102036444

Sample Name: ~~L1102036344~~ Acquired: 2/18/2011 15:51:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-31.649**	F **322.18**	F **-1622.1**	**.00132**	**-.00005**	**53.526**	**.00522**
Stddev	6.758	.35	3.1	.00317	.00287	.214	.00012
%RSD	21.353	.10904	.18866	240.73	5832.0	.39946	2.2231
#1	-36.191	321.77	-1620.1	.00456	-.00336	53.318	.00525
#2	-34.872	322.36	-1620.5	.00117	.00155	53.745	.00533
#3	-23.883	322.40	-1625.6	-.00178	.00166	53.514	.00510
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17559**	**.25345**	**.00651**	**.09529**	**.50095**	**21.425**
Stddev	.00005	.00030	.00069	.00080	.00106	.068
%RSD	.02728	.11713	10.660	.84005	.21137	.31833
#1	.17554	.25335	.00643	.09515	.49989	21.399
#2	.17562	.25321	.00586	.09457	.50094	21.373
#3	.17563	.25378	.00724	.09615	.50201	21.502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73709.**	**53933.**
Stddev	149.	433.
%RSD	.20230	.80212
#1	73873.	53503.
#2	73673.	54368.
#3	73581.	53928.

Approved: February 21, 2011

L1102036445

Sample Name: ~~L1102036345~~ Acquired: 2/18/2011 15:54:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00595**	**78.694**	**.03977**	**.06828**	**.57536**	**.00273**	**286.30**
Stddev	.00005	.759	.00216	.00116	.00296	.00003	1.22
%RSD	.80703	.96497	5.4246	1.7005	.51468	1.2724	.42756
#1	.00589	77.817	.03830	.06918	.57197	.00272	285.11
#2	.00597	79.110	.04224	.06697	.57741	.00269	286.25
#3	.00598	79.154	.03875	.06870	.57671	.00276	287.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**.02958**	**.08936**	**.22084**	**75.581**	**20.216**	**.07943**
Stddev	.00008	.00028	.00066	.00137	.424	.144	.00063
%RSD	1.9251	.93650	.74362	.61958	.56146	.71277	.79045
#1	.00421	.02934	.09010	.21965	75.116	20.052	.07978
#2	.00432	.02951	.08917	.22055	75.681	20.274	.07980
#3	.00437	.02988	.08881	.22233	75.946	20.323	.07870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.250**	**3.6971**	**.00180**	**.68168**	**.07024**	F **8097.9**	**.23850**
Stddev	.074	.0124	.00015	.00252	.00067	72.7	.00391
%RSD	.27185	.33615	8.1476	.36956	.95469	.89715	1.6380
#1	27.200	3.6835	.00164	.68111	.06999	8039.2	.23547
#2	27.215	3.6999	.00193	.67949	.06974	8075.3	.23712
#3	27.335	3.7079	.00181	.68443	.07100	8179.1	.24291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

L1102036445

Sample Name: ~~L1102036345~~ Acquired: 2/18/2011 15:54:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.704**	F **339.71**	F **-1556.3**	**-.00101**	**.00492**	**56.523**	**.00548**
Stddev	14.517	2.28	11.9	.00137	.00369	.413	.00046
%RSD	26.537	.67079	.76459	135.46	75.048	.73104	8.3039
#1	-39.848	337.37	-1544.6	-.00065	.00397	56.117	.00601
#2	-68.856	339.84	-1556.0	.00015	.00180	56.943	.00523
#3	-55.409	341.93	-1568.4	-.00252	.00900	56.508	.00521
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17731**	**.68998**	**.00930**	**.12204**	**.51158**	**34.396**
Stddev	.00112	.00180	.00152	.00058	.00324	.205
%RSD	.63028	.26055	16.320	.47249	.63397	.59467
#1	.17612	.68793	.01009	.12249	.50891	34.631
#2	.17745	.69128	.00755	.12139	.51065	34.296
#3	.17835	.69074	.01025	.12224	.51519	34.261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75120.**	**56386.**
Stddev	16.	286.
%RSD	.02099	.50752
#1	75103.	56056.
#2	75124.	56537.
#3	75134.	56564.

Approved: February 21, 2011

L1102036446

Sample Name: ~~L1102036346~~ Acquired: 2/18/2011 15:58:10 Type: Unk

Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000

User: JYH Custom ID1: 5 Custom ID2: Custom ID3:

Comment: WG356822-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00458**	**59.002**	**.03192**	**.05945**	**.54268**	**.00222**	**317.11**
Stddev	.00015	.062	.00048	.00068	.00085	.00004	1.34
%RSD	3.2996	.10582	1.5053	1.1420	.15737	1.7617	.42141
#1	.00474	58.932	.03161	.05869	.54186	.00226	315.65
#2	.00456	59.050	.03169	.05999	.54357	.00220	317.43
#3	.00445	59.025	.03248	.05968	.54261	.00219	318.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00512**	**.02327**	**.06499**	**.34818**	**59.195**	**16.676**	**.06788**
Stddev	.00008	.00009	.00034	.00125	.268	.077	.00059
%RSD	1.5946	.39838	.52533	.35853	.45334	.46150	.87054
#1	.00504	.02322	.06484	.34767	58.886	16.589	.06720
#2	.00513	.02322	.06538	.34726	59.365	16.704	.06829
#3	.00520	.02338	.06476	.34960	59.334	16.735	.06814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.208**	**2.4762**	**.00260**	**.25982**	**.05348**	F **9425.0**	**.34255**
Stddev	.100	.0119	.00047	.00246	.00042	34.5	.00276
%RSD	.43117	.47899	18.038	.94724	.78212	.36568	.80610
#1	23.098	2.4631	.00207	.25777	.05345	9414.5	.34381
#2	23.235	2.4789	.00275	.25915	.05391	9397.0	.33938
#3	23.292	2.4864	.00297	.26255	.05307	9463.5	.34445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Erin D. Long

L1102036446

Sample Name: ~~L1102036346~~ Acquired: 2/18/2011 15:58:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356822-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-68.425**	F **372.60**	F **-1932.6**	**.00108**	**.00479**	**44.830**	**.00629**
Stddev	6.782	.72	8.6	.00080	.00294	.245	.00017
%RSD	9.9111	.19302	.44683	74.131	61.288	.54666	2.7146
#1	-66.302	372.11	-1922.7	.00111	.00286	44.598	.00629
#2	-62.959	372.26	-1936.4	.00187	.00334	44.807	.00646
#3	-76.014	373.42	-1938.6	.00027	.00817	45.086	.00612
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23227**	**.49698**	**.00703**	**.09030**	**.46756**	**20.129**
Stddev	.00086	.00300	.00082	.00020	.00145	.339
%RSD	.37091	.60430	11.697	.22105	.30979	1.6827
#1	.23132	.49527	.00608	.09041	.46654	20.493
#2	.23250	.49524	.00753	.09007	.46692	20.071
#3	.23300	.50045	.00747	.09041	.46922	19.823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75820.**	**57346.**
Stddev	181.	198.
%RSD	.23897	.34489
#1	75613.	57554.
#2	75949.	57323.
#3	75898.	57161.

Approved: February 21, 2011

L1102036447S

Sample Name: ~~L1102036347S~~ Acquired: 2/18/2011 16:01:37 Type: Unk

Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000

User: JYH Custom ID1: 5 Custom ID2: Custom ID3:

Comment: WG356822-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04066**	**52.514**	**.07621**	**.05271**	**.53526**	**.00280**	**324.81**
Stddev	.00039	.418	.00299	.00024	.00613	.00004	3.08
%RSD	.96313	.79619	3.9226	.46304	1.1445	1.2897	.94785
#1	.04022	52.425	.07306	.05254	.52948	.00278	321.75
#2	.04096	52.148	.07659	.05299	.53462	.00278	324.76
#3	.04081	52.970	.07900	.05261	.54168	.00285	327.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01106**	**.02506**	**.06303**	**.46814**	**57.721**	**15.326**	**.06307**
Stddev	.00023	.00042	.00014	.01024	.706	.138	.00090
%RSD	2.0710	1.6771	.22080	2.1864	1.2234	.89759	1.4289
#1	.01080	.02470	.06318	.45786	57.055	15.220	.06235
#2	.01115	.02497	.06291	.46823	57.645	15.276	.06408
#3	.01124	.02552	.06298	.47833	58.462	15.482	.06277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.623**	**2.5427**	**.00235**	**.24559**	**.05596**	F **10321.**	**.40119**
Stddev	.197	.0258	.00038	.03403	.00113	185.	.00945
%RSD	.87202	1.0143	16.342	13.855	2.0245	1.7938	2.3542
#1	22.425	2.5156	.00191	.21027	.05465	10140.	.39105
#2	22.623	2.5456	.00263	.24835	.05661	10312.	.40280
#3	22.820	2.5669	.00251	.27816	.05662	10510.	.40973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

L1102036447S

Sample Name: ~~L1102036347S~~ Acquired: 2/18/2011 16:01:37 Type: Unk

Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000

User: JYH Custom ID1: 5 Custom ID2: Custom ID3:

Comment: WG356822-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.508**	F **409.78**	F **-2093.9**	**.00001**	**.00294**	**49.813**	**.00651**
Stddev	5.827	7.71	35.8	.00083	.00257	1.171	.00031
%RSD	13.092	1.8815	1.7084	6713.9	87.345	2.3514	4.6842
#1	-48.306	402.02	-2062.6	-.00075	.00203	48.839	.00634
#2	-47.419	409.87	-2086.2	-.00011	.00095	49.486	.00686
#3	-37.799	417.44	-2132.9	.00090	.00585	51.112	.00634
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23479**	**.26881**	**.00740**	**.08997**	**.49966**	**17.394**
Stddev	.00211	.00266	.00119	.00067	.00998	.308
%RSD	.90078	.99103	16.091	.74105	1.9974	1.7711
#1	.23286	.26655	.00694	.08933	.48955	17.109
#2	.23446	.26815	.00650	.08991	.49994	17.350
#3	.23705	.27175	.00875	.09066	.50950	17.721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75296.**	**56618.**
Stddev	203.	479.
%RSD	.26959	.84547
#1	75516.	56067.
#2	75258.	56853.
#3	75115.	56934.

Approved: February 21, 2011

Erin D. Long

L1102036448SD

Sample Name: ~~L1102036348SD~~ Acquired: 2/18/2011 16:05:04 Type: Unk

Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000

User: JYH Custom ID1: 5 Custom ID2: Custom ID3:

Comment: WG356822-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04032**	**46.403**	**.07203**	**.04541**	**.53562**	**.00298**	**329.49**
Stddev	.00052	.402	.00155	.00173	.00548	.00006	2.13
%RSD	1.2990	.86692	2.1545	3.7999	1.0232	1.9683	.64618
#1	.04031	46.234	.07030	.04619	.53096	.00297	327.63
#2	.03980	46.112	.07249	.04343	.53423	.00293	329.02
#3	.04085	46.862	.07331	.04661	.54165	.00304	331.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01077**	**.02422**	**.05887**	**.42004**	**55.594**	**14.136**	**.05826**
Stddev	.00012	.00033	.00087	.00585	.441	.144	.00045
%RSD	1.1325	1.3664	1.4861	1.3928	.79406	1.0216	.76510
#1	.01063	.02385	.05838	.41371	55.168	13.994	.05783
#2	.01086	.02433	.05836	.42119	55.567	14.134	.05823
#3	.01081	.02448	.05988	.42524	56.049	14.282	.05872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.982**	**2.5819**	**.00362**	**.23774**	**.05419**	F **10036.**	**.40503**
Stddev	.143	.0180	.00040	.00969	.00032	134.	.00755
%RSD	.64948	.69781	11.081	4.0754	.58160	1.3349	1.8641
#1	21.838	2.5636	.00315	.23791	.05391	9907.8	.39751
#2	21.984	2.5823	.00387	.24734	.05412	10024.	.40496
#3	22.124	2.5997	.00382	.22797	.05453	10175.	.41261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

L1102036448SD

Sample Name: ~~L1102036348SD~~ Acquired: 2/18/2011 16:05:04 Type: Unk

Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000

User: JYH Custom ID1: 5 Custom ID2: Custom ID3:

Comment: WG356822-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.039**	F **404.35**	F **-2086.6**	**.00318**	**.00507**	**63.521**	**.00543**
Stddev	8.347	5.75	24.2	.00125	.00248	1.230	.00042
%RSD	14.382	1.4224	1.1609	39.363	48.897	1.9367	7.6703
#1	-60.457	398.68	-2061.0	.00194	.00767	62.204	.00495
#2	-48.749	404.17	-2089.7	.00316	.00273	63.721	.00566
#3	-64.910	410.18	-2109.2	.00444	.00482	64.640	.00569
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23504**	**.17016**	**.00823**	**.08352**	**.47715**	**16.994**
Stddev	.00135	.00159	.00090	.00114	.00680	.237
%RSD	.57596	.93607	10.921	1.3654	1.4253	1.3924
#1	.23413	.16864	.00728	.08298	.47034	16.779
#2	.23440	.17182	.00835	.08275	.47716	16.956
#3	.23660	.17004	.00906	.08483	.48394	17.248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75500.**	**56494.**
Stddev	76.	208.
%RSD	.10019	.36882
#1	75534.	56500.
#2	75553.	56700.
#3	75413.	56283.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 16:08:37 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39461**	**9.8112**	**.40686**	**.48953**	**1.0106**	**.04865**	**10.071**
Stddev	.00405	.1192	.00173	.00516	.0032	.00053	.028
%RSD	1.0253	1.2154	.42516	1.0548	.31907	1.0859	.27751
#1	.39691	9.8626	.40548	.48994	1.0106	.04875	10.083
#2	.38994	9.6749	.40630	.48418	1.0073	.04808	10.039
#3	.39699	9.8961	.40880	.49448	1.0138	.04913	10.092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05095**	**.20401**	**.48786**	**.50532**	**4.0454**	**50.376**	**1.0138**
Stddev	.00024	.00053	.00621	.00099	.0142	.148	.0063
%RSD	.47031	.25924	1.2731	.19522	.35138	.29285	.61851
#1	.05107	.20416	.48785	.50581	4.0483	50.314	1.0124
#2	.05112	.20342	.48166	.50419	4.0300	50.270	1.0084
#3	.05068	.20445	.49408	.50597	4.0579	50.545	1.0207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9986**	**.50614**	**1.0176**	**50.823**	**.50867**	F **13.718**	**.50815**
Stddev	.0562	.00044	.0029	.184	.00141	3.237	.00113
%RSD	.56188	.08739	.28426	.36215	.27771	23.594	.22255
#1	10.036	.50665	1.0178	50.845	.50963	17.351	.50699
#2	9.9340	.50588	1.0147	50.628	.50705	11.143	.50822
#3	10.025	.50590	1.0204	50.994	.50934	12.659	.50925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 16:08:37 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-29.582**	**10.152**	F **14.996**	**1.2303**	**.41040**	F **4.0631**	**1.0157**
Stddev	19.701	.045	1.488	.0044	.00423	.1649	.0021
%RSD	66.597	.44081	9.9213	.35850	1.0310	4.0589	.20202
#1	-9.2337	10.199	15.288	1.2264	.41518	3.9920	1.0150
#2	-48.564	10.110	13.384	1.2293	.40893	4.2516	1.0141
#3	-30.947	10.147	16.317	1.2351	.40711	3.9456	1.0180
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0082**	**1.0177**	**.51110**	**.97783**	**.99998**	F **1.5669**
Stddev	.0020	.0040	.00151	.01144	.00254	.2174
%RSD	.19619	.39006	.29491	1.1702	.25390	13.873
#1	1.0078	1.0131	.51012	.98082	.99876	1.3552
#2	1.0064	1.0204	.51284	.96519	.99828	1.7895
#3	1.0103	1.0195	.51034	.98748	1.0029	1.5561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75159.**	**54567.**
Stddev	184.	701.
%RSD	.24447	1.2847
#1	75250.	54212.
#2	75280.	55375.
#3	74948.	54115.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 16:12:09 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.00312**	**.00249**	**-.00010**	**-.00042**	**.00005**	**-.01681**
Stddev	.00098	.00428	.00097	.00084	.00011	.00001	.00559
%RSD	111.79	137.17	39.097	862.95	26.158	16.707	33.229
#1	-.00015	.00063	.00210	-.00079	-.00051	.00005	-.01504
#2	.00180	.00067	.00177	-.00034	-.00044	.00004	-.02306
#3	.00097	.00806	.00360	.00083	-.00030	.00005	-.01232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00008**	**-.00023**	**-.00091**	**.00380**	**.03256**	**.00059**
Stddev	.00014	.00009	.00083	.00076	.00315	.07032	.00076
%RSD	753.61	110.17	359.32	83.419	82.906	215.98	128.77
#1	-.00009	.00018	-.00118	-.00007	.00575	.04541	-.00005
#2	-.00002	.00001	.00039	-.00154	.00017	.09556	.00144
#3	.00017	.00006	.00010	-.00110	.00548	-.04330	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01559**	**.00020**	**.00031**	**.03123**	**.00041**	F **-9.6873**	**.00300**
Stddev	.00579	.00095	.00023	.02021	.00011	4.2237	.00175
%RSD	37.142	483.63	72.727	64.720	26.643	43.600	58.516
#1	.01181	.00088	.00013	.04672	.00047	-4.8105	.00134
#2	.01271	-.00088	.00057	.03860	.00048	-12.079	.00282
#3	.02226	.00058	.00024	.00837	.00029	-12.173	.00483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 16:12:09 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-19.130**	F **-.07927**	F **4.8815**	**-.00244**	**.00393**	**-.28013**	**.00081**
Stddev	22.629	.02883	.8851	.00044	.00155	.15326	.00026
%RSD	118.29	36.372	18.131	18.060	39.484	54.709	32.484
#1	-14.373	-.11185	5.6205	-.00274	.00223	-.44370	.00108
#2	.7413	-.05704	5.1235	-.00193	.00527	-.25685	.00056
#3	-43.760	-.06891	3.9006	-.00264	.00429	-.13985	.00078
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00081**	**.00067**	**.00002**	**.00021**	F **.69240**
Stddev	.00020	.00018	.00164	.00033	.00003	.31819
%RSD	247.50	21.556	246.58	1608.1	13.461	45.955
#1	.00015	.00073	-.00115	-.00005	.00018	.32659
#2	-.00017	.00102	.00206	.00038	.00020	.84564
#3	-.00023	.00070	.00108	-.00027	.00024	.90497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76967.**	**54470.**
Stddev	184.	276.
%RSD	.23950	.50652
#1	76857.	54421.
#2	76864.	54767.
#3	77179.	54222.

Approved: February 21, 2011

Sample Name: PBS 54 Acquired: 2/18/2011 16:15:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356963-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00418**	**-.00272**	**-.00019**	**-.00019**	**.00003**	**.00692**
Stddev	.00107	.00124	.00200	.00065	.00038	.00002	.01901
%RSD	888.42	29.600	73.378	347.25	205.78	57.580	274.54
#1	.00135	-.00436	-.00485	.00014	-.00059	.00003	-.01400
#2	-.00060	-.00286	-.00088	-.00093	-.00013	.00006	.01164
#3	-.00039	-.00532	-.00245	.00023	.00017	.00002	.02313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00038**	**-.00034**	**-.00042**	**.02132**	**-.07631**	**-.00383**
Stddev	.00012	.00020	.00038	.00020	.00429	.04797	.00145
%RSD	62.731	52.527	110.65	48.365	20.104	62.869	37.901
#1	.00034	-.00033	-.00004	-.00042	.01923	-.13129	-.00298
#2	.00015	-.00021	-.00023	-.00022	.02625	-.05471	-.00301
#3	.00011	-.00060	-.00077	-.00063	.01848	-.04293	-.00551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02247**	**.00047**	**.00013**	**.01021**	**.00509**	F **-16.245**	**.00235**
Stddev	.02382	.00046	.00021	.01592	.00115	7.630	.00121
%RSD	106.00	97.556	162.22	155.99	22.538	46.968	51.612
#1	.03921	.00023	-.00009	.02831	.00474	-20.527	.00155
#2	.03301	.00018	.00033	-.00165	.00636	-20.772	.00175
#3	-.00480	.00099	.00014	.00397	.00415	-7.4359	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: PBS 54 Acquired: 2/18/2011 16:15:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356963-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-38.471**	F **-.06678**	**4.2657**	**-.00100**	**.00498**	**1.4321**	**.00068**
Stddev	2.429	.02391	2.6786	.00153	.00354	.1442	.00032
%RSD	6.3130	35.799	62.795	153.55	70.924	10.067	46.443
#1	-41.276	-.05674	4.5687	-.00202	.00692	1.2818	.00103
#2	-37.085	-.09407	6.7799	-.00174	.00090	1.5692	.00062
#3	-37.053	-.04954	1.4484	.00077	.00713	1.4454	.00040
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00079**	**-.00136**	**-.00018**	**.00172**	**.48380**
Stddev	.00011	.00123	.00096	.00057	.00008	.35727
%RSD	90.125	155.31	70.855	318.05	4.8549	73.846
#1	-.00018	.00136	-.00041	-.00005	.00182	.85208
#2	-.00018	-.00062	-.00133	.00032	.00167	.46063
#3	.00000	.00164	-.00234	-.00081	.00167	.13868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75902.**	**54617.**
Stddev	509.	179.
%RSD	.67065	.32689
#1	76295.	54822.
#2	76085.	54529.
#3	75327.	54500.

Approved: February 21, 2011

Sample Name: LCSS 54 Acquired: 2/18/2011 16:19:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356963-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19276**	**-.00059**	**.19592**	**-.00058**	**-.00003**	**.00003**	**.01034**
Stddev	.00173	.00277	.00108	.00178	.00033	.00003	.02360
%RSD	.89721	465.75	.55049	306.30	1074.8	110.81	228.31
#1	.19120	.00080	.19574	.00034	-.00040	.00000	.01788
#2	.19246	-.00378	.19494	-.00263	.00020	.00002	.02924
#3	.19462	.00120	.19708	.00055	.00011	.00007	-.01611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02493**	**-.00037**	**-.00010**	**.25621**	**.00826**	**-.04875**	**-.00175**
Stddev	.00007	.00024	.00036	.00058	.00189	.05780	.00081
%RSD	.28028	63.954	364.50	.22590	22.903	118.55	46.341
#1	.02501	-.00021	.00031	.25630	.00617	-.03703	-.00269
#2	.02490	-.00064	-.00024	.25559	.00876	.00228	-.00130
#3	.02489	-.00025	-.00037	.25674	.00986	-.11152	-.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00462**	**.26328**	**-.00009**	**.02238**	**.00078**	F **-10.500**	**.26247**
Stddev	.00900	.00027	.00026	.01681	.00074	11.827	.00194
%RSD	194.90	.10193	274.29	75.118	95.287	112.63	.73870
#1	-.01487	.26315	-.00037	.03533	-.00006	-13.181	.26052
#2	-.00098	.26359	-.00005	.02844	.00134	2.4370	.26440
#3	.00199	.26311	.00014	.00338	.00104	-20.756	.26248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: LCSS 54 Acquired: 2/18/2011 16:19:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356963-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-20.023**	F **-.10969**	**5.8433**	**.00302**	**.00260**	**1.4029**	**.00038**
Stddev	22.096	.04157	1.2475	.00184	.00128	.1386	.00012
%RSD	110.35	37.897	21.350	60.887	49.457	9.8811	32.653
#1	-40.148	-.11169	5.9230	.00092	.00149	1.2740	.00041
#2	-23.542	-.06715	7.0491	.00436	.00401	1.5495	.00048
#3	3.6211	-.15022	4.5578	.00377	.00230	1.3850	.00024
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00068**	**.00016**	**.00000**	**.00134**	**.42559**
Stddev	.00014	.00143	.00095	.0005	.00002	.16688
%RSD	133.15	209.94	577.71	37052.	1.4757	39.211
#1	.00005	.00100	.00122	.00041	.00135	.61718
#2	-.00014	-.00088	-.00060	-.00054	.00132	.34758
#3	-.00023	.00193	-.00014	.00012	.00135	.31200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**72873.**	**53445.**
Stddev	1014.	216.
%RSD	1.3920	.40492
#1	73993.	53681.
#2	72610.	53399.
#3	72016.	53256.

Approved: February 21, 2011

Sample Name: L1102045401 Acquired: 2/18/2011 16:23:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00390**	**26.485**	**.02829**	**.03442**	**1.4067**	**.00670**	**35.990**
Stddev	.00053	.171	.00168	.00033	.0035	.00003	.037
%RSD	13.580	.64588	5.9358	.96634	.24732	.46971	.10345
#1	.00371	26.617	.03006	.03477	1.4029	.00674	35.948
#2	.00450	26.545	.02672	.03438	1.4072	.00668	36.020
#3	.00349	26.292	.02807	.03411	1.4098	.00669	36.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01186**	**.04117**	**.06136**	**1.0739**	**77.984**	**8.1126**	**.03761**
Stddev	.00013	.00028	.00047	.0005	.118	.0892	.00171
%RSD	1.0873	.69143	.76385	.04883	.15134	1.1001	4.5491
#1	.01191	.04086	.06094	1.0736	77.861	8.0991	.03710
#2	.01172	.04123	.06187	1.0745	77.996	8.0308	.03952
#3	.01196	.04142	.06128	1.0737	78.096	8.2078	.03622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.7237**	**6.2970**	**.00334**	**.21825**	**.04268**	F **12594.**	**1.9333**
Stddev	.0199	.0087	.00028	.01127	.00032	33.	.0080
%RSD	.22849	.13803	8.5322	5.1653	.75433	.26344	.41489
#1	8.7286	6.2870	.00302	.20740	.04281	12557.	1.9243
#2	8.7018	6.3024	.00344	.22990	.04291	12604.	1.9397
#3	8.7407	6.3017	.00356	.21745	.04231	12621.	1.9359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045401 Acquired: 2/18/2011 16:23:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.960**	F **92.400**	F **-1935.4**	**.00180**	**.01071**	**58.418**	**.06579**
Stddev	13.357	.063	3.5	.00195	.00558	.281	.00025
%RSD	39.331	.06832	.18041	108.38	52.134	.48054	.38300
#1	-21.972	92.468	-1937.5	.00156	.01601	58.094	.06597
#2	-48.358	92.343	-1931.3	.00386	.00488	58.584	.06550
#3	-31.551	92.389	-1937.3	-.00002	.01125	58.576	.06588
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11429**	**.11890**	**.00916**	**.05616**	**2.2005**	**8.4426**
Stddev	.00022	.00180	.00109	.00034	.0018	.1623
%RSD	.18957	1.5172	11.901	.60547	.08014	1.9221
#1	.11405	.11813	.00801	.05623	2.1991	8.4563
#2	.11435	.12096	.00929	.05645	2.1999	8.2739
#3	.11447	.11761	.01018	.05579	2.2025	8.5975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77571.**	**56952.**
Stddev	116.	148.
%RSD	.14974	.26027
#1	77692.	56894.
#2	77561.	57121.
#3	77461.	56842.

Approved: February 21, 2011

Sample Name: L1102045401PS Acquired: 2/18/2011 16:26:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356993-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20279**	**30.226**	**.23570**	**1.0193**	**1.8997**	**.03120**	**40.299**
Stddev	.00367	.588	.00275	.0166	.0080	.00045	.133
%RSD	1.8120	1.9463	1.1673	1.6287	.42076	1.4490	.32934
#1	.19928	29.606	.23432	1.0047	1.8906	.03077	40.157
#2	.20661	30.776	.23391	1.0374	1.9030	.03167	40.419
#3	.20247	30.298	.23887	1.0159	1.9055	.03117	40.322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03778**	**.14430**	**.30124**	**1.2982**	**78.402**	**33.474**	**.55449**
Stddev	.00017	.00056	.00469	.0009	.372	.143	.00148
%RSD	.45298	.38529	1.5560	.06870	.47408	.42573	.26646
#1	.03770	.14367	.29686	1.2973	77.974	33.309	.55394
#2	.03766	.14474	.30618	1.2991	78.643	33.561	.55337
#3	.03797	.14448	.30067	1.2983	78.588	33.551	.55617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.576**	**6.3993**	**.53179**	**26.841**	**.29958**	F **12653.**	**2.1512**
Stddev	.081	.0214	.00084	.159	.00059	55.	.0080
%RSD	.59390	.33376	.15786	.59283	.19725	.43092	.37425
#1	13.483	6.3752	.53084	26.659	.29891	12599.	2.1420
#2	13.625	6.4161	.53210	26.911	.29976	12652.	2.1547
#3	13.620	6.4066	.53242	26.953	.30005	12708.	2.1569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045401PS Acquired: 2/18/2011 16:26:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356993-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-49.123**	F **96.082**	F **-1924.7**	**.61685**	**.22055**	F **361.07**	**.06596**
Stddev	11.198	.129	1.9	.00416	.00086	.62	.00057
%RSD	22.795	.13390	.09738	.67376	.38992	.17233	.86210
#1	-56.913	95.964	-1922.6	.61905	.22027	360.40	.06545
#2	-36.291	96.063	-1925.5	.61206	.21986	361.18	.06584
#3	-54.165	96.219	-1926.0	.61944	.22151	361.63	.06657
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.62002**	**.62431**	**.26493**	**.54781**	**2.6893**	**9.3026**
Stddev	.00191	.00145	.00248	.00810	.0074	.2384
%RSD	.30769	.23283	.93434	1.4793	.27472	2.5627
#1	.61798	.62515	.26292	.53994	2.6808	9.1888
#2	.62176	.62516	.26770	.55612	2.6941	9.5766
#3	.62031	.62263	.26418	.54736	2.6931	9.1425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76614.**	**57588.**
Stddev	239.	793.
%RSD	.31258	1.3770
#1	76772.	58501.
#2	76339.	57075.
#3	76732.	57187.

Approved: February 21, 2011

Sample Name: L1102045401SDL Acquired: 2/18/2011 16:30:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356993-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**5.6230**	**.00661**	**.00841**	**.27872**	**.00136**	**7.1970**
Stddev	.00033	.0556	.00119	.00048	.00121	.00002	.0439
%RSD	17.942	.98928	18.052	5.6525	.43327	1.7491	.61037
#1	.00169	5.5588	.00583	.00880	.27806	.00133	7.1479
#2	.00161	5.6569	.00798	.00855	.27798	.00137	7.2104
#3	.00222	5.6533	.00601	.00788	.28011	.00137	7.2327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**.00839**	**.01218**	**.21890**	**15.557**	**1.6224**	**.00853**
Stddev	.00005	.00014	.00028	.00078	.055	.0527	.00176
%RSD	2.2972	1.7203	2.2809	.35490	.35429	3.2489	20.663
#1	.00230	.00855	.01240	.21815	15.494	1.6397	.00847
#2	.00220	.00832	.01187	.21885	15.584	1.5633	.01032
#3	.00226	.00829	.01226	.21971	15.594	1.6644	.00679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7754**	**1.2726**	**.00119**	**.04562**	**.00912**	F **2553.9**	**.40243**
Stddev	.0153	.0026	.00026	.02304	.00033	20.2	.00272
%RSD	.85917	.20000	21.523	50.510	3.5904	.79242	.67637
#1	1.7590	1.2702	.00142	.07059	.00886	2536.9	.40122
#2	1.7891	1.2722	.00124	.02518	.00949	2548.6	.40052
#3	1.7782	1.2753	.00091	.04108	.00900	2576.3	.40555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045401SDL Acquired: 2/18/2011 16:30:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356993-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-35.164**	F **18.670**	F **-387.13**	**-.00203**	**.00239**	**11.538**	**.01199**
Stddev	21.383	.199	4.49	.00186	.00130	.184	.00028
%RSD	60.811	1.0648	1.1585	91.728	54.533	1.5988	2.3536
#1	-59.703	18.487	-381.96	-.00408	.00110	11.360	.01175
#2	-25.261	18.642	-389.97	-.00154	.00370	11.526	.01230
#3	-20.527	18.882	-389.46	-.00046	.00236	11.728	.01191
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02288**	**.02504**	**.00376**	**.01190**	**.44917**	**1.9137**
Stddev	.00018	.00063	.00136	.00068	.00169	.0729
%RSD	.79517	2.5097	36.144	5.6868	.37595	3.8093
#1	.02270	.02470	.00435	.01116	.44779	1.9305
#2	.02287	.02465	.00221	.01204	.44865	1.9767
#3	.02306	.02576	.00473	.01249	.45105	1.8338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78228.**	**56107.**
Stddev	47.	131.
%RSD	.06056	.23346
#1	78267.	56155.
#2	78176.	55959.
#3	78242.	56208.

Approved: February 21, 2011

Sample Name: L1102045401SDL Acquired: 2/18/2011 16:33:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356993-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**1.0956**	**.00211**	**-.00007**	**.05366**	**.00029**	**1.3862**
Stddev	.00103	.0088	.00241	.00215	.00012	.00002	.0116
%RSD	154.80	.80085	114.09	3091.8	.22031	6.0110	.83318
#1	-.00052	1.0896	.00272	.00181	.05362	.00030	1.3757
#2	.00134	1.0916	.00416	.00040	.05358	.00028	1.3986
#3	.00118	1.1057	-.00054	-.00242	.05380	.00027	1.3842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00180**	**.00197**	**.04178**	**2.9784**	**.20172**	**-.00236**
Stddev	.00013	.00016	.00010	.00075	.0133	.01658	.00035
%RSD	37.341	8.9374	5.3028	1.8049	.44561	8.2202	14.688
#1	.00049	.00198	.00208	.04249	2.9935	.19875	-.00199
#2	.00031	.00172	.00187	.04185	2.9728	.21958	-.00267
#3	.00024	.00169	.00195	.04099	2.9688	.18682	-.00242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35192**	**.24734**	**-.00025**	**.03412**	**.00207**	**482.19**	**.07828**
Stddev	.01115	.00096	.00018	.02482	.00036	3.47	.00147
%RSD	3.1682	.38996	69.537	72.748	17.505	.71919	1.8773
#1	.36164	.24805	-.00005	.06105	.00168	486.02	.07696
#2	.35437	.24772	-.00032	.01215	.00212	481.28	.07803
#3	.33975	.24624	-.00038	.02917	.00240	479.27	.07986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102045401SDL Acquired: 2/18/2011 16:33:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356993-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.458**	**3.4248**	F **-65.574**	**-.00332**	**.00262**	**1.3931**	**.00190**
Stddev	7.987	.0462	2.601	.00088	.00257	.2457	.00023
%RSD	18.811	1.3487	3.9671	26.373	98.232	17.637	12.091
#1	-34.011	3.4187	-67.716	-.00310	.00013	1.2946	.00214
#2	-43.476	3.4737	-66.328	-.00257	.00527	1.2120	.00186
#3	-49.886	3.3819	-62.679	-.00428	.00247	1.6728	.00169
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00422**	**.00347**	**.00194**	**.00199**	**.08780**	**.28605**
Stddev	.00004	.00015	.00169	.00053	.00003	.14090
%RSD	.85724	4.2626	86.981	26.685	.03765	49.258
#1	.00420	.00331	.00121	.00241	.08783	.27602
#2	.00419	.00360	.00074	.00139	.08779	.15043
#3	.00426	.00350	.00387	.00218	.08777	.43169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77755.**	**56161.**
Stddev	181.	181.
%RSD	.23267	.32173
#1	77889.	56330.
#2	77827.	56181.
#3	77549.	55971.

Approved: February 21, 2011

Sample Name: L1102045402 Acquired: 2/18/2011 16:37:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**25.903**	**.02236**	**.03386**	**1.1119**	**.00815**	**13.800**
Stddev	.00059	.172	.00126	.00146	.0039	.00006	.038
%RSD	14.879	.66309	5.6322	4.3036	.35348	.77601	.27216
#1	.00461	25.708	.02358	.03473	1.1075	.00808	13.790
#2	.00344	25.967	.02243	.03218	1.1133	.00820	13.768
#3	.00387	26.033	.02106	.03468	1.1149	.00817	13.841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00859**	**.04916**	**.03896**	**.87462**	**83.137**	**7.3688**	**.03708**
Stddev	.00010	.00020	.00050	.00266	.272	.0591	.00008
%RSD	1.1573	.39928	1.2871	.30457	.32755	.80165	.22407
#1	.00856	.04899	.03924	.87158	82.854	7.3097	.03701
#2	.00871	.04937	.03926	.87654	83.160	7.3687	.03717
#3	.00851	.04912	.03839	.87575	83.397	7.4279	.03706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.7849**	**6.7853**	**.00228**	**.12060**	**.05621**	F **6945.7**	**1.5062**
Stddev	.0441	.0267	.00024	.01712	.00039	17.2	.0067
%RSD	.50176	.39278	10.742	14.195	.68824	.24794	.44410
#1	8.7463	6.7695	.00255	.11713	.05609	6927.7	1.4992
#2	8.7755	6.7704	.00207	.13919	.05664	6947.4	1.5070
#3	8.8330	6.8161	.00222	.10548	.05589	6962.0	1.5125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045402 Acquired: 2/18/2011 16:37:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.748**	F **38.945**	F **-850.64**	**-.00007**	**.00703**	**62.121**	**.04032**
Stddev	11.512	.218	2.39	.00181	.00099	.189	.00025
%RSD	40.047	.56091	.28052	2734.7	14.156	.30352	.62468
#1	-17.368	38.693	-851.84	-.00076	.00589	61.914	.04018
#2	-28.486	39.072	-847.89	-.00143	.00749	62.165	.04018
#3	-40.388	39.071	-852.19	.00199	.00771	62.283	.04061
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06684**	**.08960**	**.00965**	**.04685**	**1.6389**	**5.6506**
Stddev	.00016	.00051	.00065	.00022	.0047	.0915
%RSD	.24545	.56978	6.6946	.46712	.28479	1.6193
#1	.06666	.08905	.00959	.04659	1.6338	5.5546
#2	.06686	.08970	.01033	.04697	1.6402	5.7368
#3	.06699	.09006	.00904	.04697	1.6428	5.6605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76601.**	**55633.**
Stddev	39.	317.
%RSD	.05109	.56948
#1	76569.	55992.
#2	76590.	55513.
#3	76645.	55393.

Approved: February 21, 2011

Sample Name: L1102045403 Acquired: 2/18/2011 16:41:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00543**	**25.809**	**.02788**	**.04276**	**1.3386**	**.00785**	**46.901**
Stddev	.00127	.128	.00081	.00050	.0064	.00006	.169
%RSD	23.433	.49673	2.8973	1.1604	.47741	.78993	.35936
#1	.00417	25.677	.02713	.04241	1.3314	.00779	46.721
#2	.00541	25.933	.02873	.04254	1.3412	.00792	46.925
#3	.00671	25.818	.02777	.04333	1.3433	.00785	47.056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01286**	**.04641**	**.04779**	**1.3809**	**82.858**	**9.1704**	**.03187**
Stddev	.00012	.00040	.00058	.0078	.370	.0453	.00135
%RSD	.89670	.85839	1.2056	.56483	.44608	.49425	4.2270
#1	.01287	.04627	.04754	1.3757	82.431	9.1434	.03337
#2	.01274	.04610	.04738	1.3771	83.064	9.1450	.03148
#3	.01298	.04686	.04845	1.3899	83.078	9.2227	.03076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2730**	**5.9871**	**.00406**	**.24645**	**.03913**	F **16786.**	**1.7899**
Stddev	.0624	.0251	.00022	.01933	.00084	69.	.0095
%RSD	.67293	.41874	5.3432	7.8428	2.1573	.40906	.53284
#1	9.2023	5.9587	.00426	.26096	.04002	16753.	1.7827
#2	9.3205	5.9969	.00408	.22451	.03835	16741.	1.7863
#3	9.2961	6.0059	.00383	.25388	.03902	16865.	1.8008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045403 Acquired: 2/18/2011 16:41:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-27.790**	F **155.29**	F **-3762.6**	**.00243**	**.01176**	**68.301**	**.08551**
Stddev	17.346	.77	18.7	.00240	.00168	.386	.00044
%RSD	62.416	.49708	.49620	98.551	14.281	.56546	.51354
#1	-9.1168	154.79	-3745.6	.00222	.01052	68.737	.08521
#2	-43.400	154.91	-3759.5	.00015	.01367	68.162	.08531
#3	-30.855	156.18	-3782.6	.00493	.01109	68.003	.08602
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20566**	**.10993**	**.00900**	**.04212**	**2.3595**	**8.7946**
Stddev	.00111	.00110	.00022	.00044	.0107	.0926
%RSD	.54183	1.0025	2.4667	1.0340	.45548	1.0530
#1	.20439	.10866	.00876	.04174	2.3513	8.7086
#2	.20647	.11063	.00920	.04259	2.3557	8.7825
#3	.20612	.11050	.00905	.04202	2.3717	8.8927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76520.**	**55582.**
Stddev	238.	371.
%RSD	.31070	.66706
#1	76760.	56010.
#2	76516.	55360.
#3	76285.	55375.

Approved: February 21, 2011

Sample Name: L1102045404 Acquired: 2/18/2011 16:44:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00598**	**31.137**	**.03099**	**.03982**	**1.3438**	**.00944**	**24.958**
Stddev	.00068	.452	.00067	.00136	.0029	.00012	.024
%RSD	11.388	1.4511	2.1763	3.4042	.21405	1.2930	.09712
#1	.00565	31.335	.03163	.03825	1.3415	.00950	24.935
#2	.00677	30.620	.03107	.04057	1.3430	.00930	24.983
#3	.00553	31.456	.03029	.04063	1.3471	.00952	24.956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00824**	**.05321**	**.05715**	**1.4044**	**93.838**	**8.8832**	**.03631**
Stddev	.00012	.00007	.00101	.0041	.163	.0291	.00269
%RSD	1.4197	.13272	1.7615	.29361	.17362	.32781	7.4084
#1	.00811	.05321	.05791	1.4002	93.749	8.8870	.03387
#2	.00827	.05313	.05601	1.4048	93.738	8.9102	.03587
#3	.00833	.05327	.05754	1.4084	94.026	8.8523	.03920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3837**	**6.0668**	**.00286**	**.24067**	**.04429**	F **11815.**	**1.6316**
Stddev	.0331	.0085	.00039	.00563	.00062	63.	.0100
%RSD	.35235	.14077	13.517	2.3402	1.4041	.52968	.61243
#1	9.3654	6.0634	.00243	.23885	.04359	11771.	1.6264
#2	9.4219	6.0765	.00297	.24699	.04447	11788.	1.6253
#3	9.3639	6.0604	.00318	.23618	.04479	11887.	1.6431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045404 Acquired: 2/18/2011 16:44:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-18.399**	F **84.871**	F **-2077.5**	**.00276**	**.00846**	**70.092**	**.06874**
Stddev	10.339	.337	11.4	.00067	.00107	.362	.00029
%RSD	56.195	.39649	.54922	24.187	12.664	.51688	.41626
#1	-26.565	84.580	-2065.1	.00322	.00752	69.679	.06871
#2	-21.858	84.794	-2087.6	.00200	.00963	70.358	.06846
#3	-6.7737	85.240	-2079.9	.00307	.00823	70.239	.06903
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13784**	**.10810**	**.00803**	**.04575**	**1.9248**	**8.4201**
Stddev	.00031	.00179	.00080	.00120	.0066	.1664
%RSD	.22833	1.6532	9.9942	2.6128	.34125	1.9758
#1	.13779	.10622	.00804	.04619	1.9215	8.3080
#2	.13817	.10978	.00722	.04439	1.9205	8.3411
#3	.13755	.10830	.00883	.04666	1.9324	8.6113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76805.**	**54578.**
Stddev	426.	382.
%RSD	.55512	.69958
#1	76706.	54144.
#2	77272.	54862.
#3	76436.	54729.

Approved: February 21, 2011

Sample Name: L1102045405 Acquired: 2/18/2011 16:48:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00461**	**26.163**	**.03484**	**.03493**	**1.4187**	**.00683**	**39.268**
Stddev	.00082	.160	.00131	.00103	.0063	.00002	.113
%RSD	17.700	.61068	3.7695	2.9627	.44464	.35226	.28790
#1	.00526	26.011	.03350	.03388	1.4115	.00680	39.214
#2	.00488	26.149	.03612	.03595	1.4232	.00685	39.191
#3	.00369	26.330	.03489	.03496	1.4215	.00683	39.398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01230**	**.04243**	**.06307**	**1.1361**	**79.032**	**8.0921**	**.03606**
Stddev	.00010	.00034	.00084	.0062	.307	.0327	.00276
%RSD	.79759	.79347	1.3355	.54327	.38831	.40355	7.6657
#1	.01235	.04225	.06221	1.1352	78.688	8.0545	.03288
#2	.01218	.04221	.06389	1.1304	79.133	8.1084	.03789
#3	.01236	.04282	.06310	1.1427	79.276	8.1134	.03742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.8315**	**6.3716**	**.00295**	**.23325**	**.04406**	F **12700.**	**2.0591**
Stddev	.0447	.0115	.00033	.01031	.00047	41.	.0097
%RSD	.50593	.18077	11.356	4.4199	1.0688	.31893	.47080
#1	8.8165	6.3610	.00291	.22164	.04386	12654.	2.0482
#2	8.7964	6.3700	.00263	.24134	.04460	12715.	2.0623
#3	8.8818	6.3839	.00330	.23676	.04373	12730.	2.0668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045405 Acquired: 2/18/2011 16:48:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.017**	F **98.056**	F **-2028.5**	**.00286**	**.00848**	**74.572**	**.06709**
Stddev	10.774	.345	6.6	.00367	.00467	.525	.00025
%RSD	22.915	.35217	.32710	128.24	55.091	.70399	.37484
#1	-57.665	97.875	-2023.5	.00612	.00375	75.170	.06692
#2	-36.122	97.839	-2025.9	-.00111	.01309	74.363	.06696
#3	-47.264	98.454	-2036.0	.00358	.00860	74.184	.06738
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11844**	**.13048**	**.00935**	**.05777**	**2.2514**	**8.4934**
Stddev	.00023	.00190	.00074	.00039	.0101	.3613
%RSD	.19035	1.4571	7.9045	.66911	.44650	4.2536
#1	.11851	.12885	.00871	.05754	2.2453	8.4372
#2	.11819	.13001	.00917	.05756	2.2459	8.1635
#3	.11863	.13257	.01016	.05822	2.2630	8.8795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79997.**	**57009.**
Stddev	460.	104.
%RSD	.57555	.18267
#1	79931.	56903.
#2	80487.	57111.
#3	79573.	57013.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 16:51:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38749**	**9.4987**	**.41254**	**.48171**	**1.0185**	**.04789**	**10.131**
Stddev	.00319	.0737	.00095	.00230	.0022	.00040	.034
%RSD	.82422	.77606	.23031	.47805	.21701	.83759	.33195
#1	.38762	9.4947	.41323	.48147	1.0167	.04788	10.097
#2	.38423	9.4270	.41293	.47954	1.0178	.04750	10.134
#3	.39061	9.5743	.41146	.48412	1.0210	.04830	10.164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05114**	**.20482**	**.47777**	**.50890**	**4.0835**	**50.667**	**1.0210**
Stddev	.00021	.00073	.00270	.00138	.0093	.193	.0034
%RSD	.41704	.35628	.56551	.27073	.22733	.38120	.33612
#1	.05090	.20399	.47800	.50774	4.0807	50.589	1.0181
#2	.05125	.20509	.47496	.50854	4.0760	50.524	1.0202
#3	.05128	.20537	.48035	.51042	4.0939	50.887	1.0248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.037**	**.51083**	**1.0247**	**50.893**	**.51384**	F **13.793**	**.51130**
Stddev	.023	.00135	.0016	.234	.00195	9.981	.00105
%RSD	.22699	.26398	.15285	.46066	.37984	72.365	.20621
#1	10.062	.51004	1.0231	50.686	.51213	15.260	.51055
#2	10.030	.51006	1.0249	50.846	.51343	3.1595	.51085
#3	10.019	.51239	1.0262	51.148	.51597	22.960	.51251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 16:51:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-62.166**	**10.152**	F **13.032**	**1.2421**	**.41053**	F **4.0232**	**1.0234**
Stddev	7.970	.007	1.518	.0014	.00090	.1255	.0027
%RSD	12.820	.07223	11.652	.11642	.21919	3.1203	.26382
#1	-71.239	10.143	13.781	1.2427	.40996	3.9505	1.0203
#2	-58.966	10.154	11.284	1.2431	.41157	3.9511	1.0249
#3	-56.294	10.158	14.030	1.2404	.41006	4.1682	1.0251
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0259**	**1.0226**	**.51339**	**.96631**	**1.0064**	F **1.5994**
Stddev	.0017	.0031	.00124	.00707	.0026	.1296
%RSD	.16068	.30139	.24166	.73194	.26190	8.1054
#1	1.0247	1.0218	.51197	.96688	1.0039	1.4661
#2	1.0253	1.0200	.51394	.95897	1.0062	1.6070
#3	1.0278	1.0260	.51427	.97308	1.0092	1.7251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77442.**	**58335.**
Stddev	404.	528.
%RSD	.52145	.90539
#1	77836.	58520.
#2	77461.	58746.
#3	77029.	57739.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 16:55:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00633**	**.00207**	**.00078**	**-.00020**	**.00005**	**.00338**
Stddev	.00057	.00307	.00072	.00116	.00020	.00003	.00823
%RSD	322.82	48.483	34.966	148.13	101.82	47.951	243.90
#1	-.00047	-.00496	.00226	.00113	.00003	.00008	.01288
#2	.00048	-.00419	.00269	.00173	-.00032	.00003	-.00146
#3	-.00054	-.00985	.00127	-.00051	-.00031	.00005	-.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00002**	**-.00023**	**-.00124**	**.00231**	**-.02181**	**-.00104**
Stddev	.00011	.00019	.00023	.00054	.00582	.03859	.00037
%RSD	124.46	835.26	97.534	43.267	251.99	176.89	35.738
#1	-.00012	.00006	-.00048	-.00092	-.00344	-.06631	-.00090
#2	-.00019	.00019	-.00016	-.00095	.00217	.00232	-.00146
#3	.00003	-.00019	-.00005	-.00187	.00820	-.00144	-.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01013**	**.00035**	**.00071**	**.04153**	**.00121**	F **-.21735**	**.00185**
Stddev	.00974	.00033	.00029	.00828	.00034	8.5470	.00306
%RSD	96.145	93.718	40.817	19.927	28.287	3932.5	165.96
#1	.02103	.00057	.00038	.04762	.00083	9.0641	.00438
#2	.00230	.00052	.00093	.04486	.00129	-1.9524	.00272
#3	.00706	-.00003	.00083	.03211	.00150	-7.7637	-.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 16:55:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.397**	F **-.18206**	F **7.8871**	**-.00194**	**.00416**	**-.29104**	**.00066**
Stddev	19.658	.03844	1.2419	.00129	.00140	.14171	.00019
%RSD	39.005	21.112	15.746	66.340	33.553	48.691	27.992
#1	-59.880	-.18962	7.8121	-.00132	.00548	-.45235	.00068
#2	-27.796	-.21615	6.6845	-.00342	.00270	-.23418	.00083
#3	-63.515	-.14040	9.1648	-.00109	.00431	-.18660	.00047
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00128**	**.00111**	**-.00007**	**.00021**	F **.50242**
Stddev	.0001	.00078	.00214	.00003	.00003	.09616
%RSD	29856.	60.870	192.53	39.594	14.178	19.139
#1	-.00010	.00198	-.00114	-.00004	.00019	.61260
#2	-.00004	.00044	.00136	-.00009	.00021	.45923
#3	.00014	.00144	.00312	-.00008	.00025	.43544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79023.**	**57000.**
Stddev	347.	403.
%RSD	.43974	.70678
#1	78753.	57392.
#2	78900.	56587.
#3	79415.	57021.

Approved: February 21, 2011

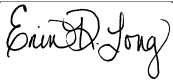
Sample Name: L1102045406 Acquired: 2/18/2011 16:58:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00821**	**31.000**	**.03011**	**.04260**	**1.3447**	**.00403**	**97.262**
Stddev	.00093	.205	.00023	.00121	.0060	.00007	.270
%RSD	11.316	.66106	.76807	2.8331	.44381	1.7927	.27789
#1	.00769	30.921	.02993	.04320	1.3384	.00408	97.021
#2	.00928	31.233	.03003	.04338	1.3456	.00407	97.211
#3	.00765	30.847	.03037	.04121	1.3502	.00395	97.555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03165**	**.05371**	**.05265**	**1.1484**	**66.046**	**8.5138**	**.03481**
Stddev	.00004	.00005	.00088	.0026	.205	.0392	.00247
%RSD	.13748	.09614	1.6715	.22381	.31091	.46058	7.0934
#1	.03161	.05367	.05250	1.1513	65.818	8.5508	.03610
#2	.03169	.05369	.05359	1.1473	66.103	8.4727	.03197
#3	.03165	.05377	.05185	1.1465	66.217	8.5179	.03637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8972**	**5.1529**	**.00313**	**.73717**	**.06044**	F **19292.**	**1.3760**
Stddev	.0384	.0129	.00039	.01061	.00065	62.	.0081
%RSD	.38839	.25077	12.468	1.4395	1.0771	.32052	.59102
#1	9.9018	5.1424	.00275	.74330	.06040	19223.	1.3667
#2	9.8566	5.1489	.00311	.72492	.06111	19314.	1.3798
#3	9.9331	5.1673	.00353	.74330	.05981	19341.	1.3815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011



Sample Name: L1102045406 Acquired: 2/18/2011 16:58:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.142**	F **168.23**	F **-2403.1**	**.00133**	**.00880**	F **91.739**	**.05769**
Stddev	10.660	.09	8.9	.00212	.00100	.432	.00059
%RSD	17.725	.05250	.37126	159.11	11.398	.47077	1.0173
#1	-70.996	168.24	-2413.2	.00377	.00857	91.359	.05825
#2	-59.743	168.14	-2399.5	.00033	.00792	92.209	.05773
#3	-49.687	168.32	-2396.5	-.00010	.00989	91.650	.05708
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37800**	**.14282**	**.00827**	**.07060**	**3.0989**	**12.475**
Stddev	.00120	.00238	.00240	.00068	.0055	.105
%RSD	.31831	1.6665	29.020	.95625	.17882	.84139
#1	.37766	.14026	.00727	.07040	3.0929	12.420
#2	.37700	.14496	.00653	.07135	3.1001	12.409
#3	.37933	.14325	.01101	.07004	3.1038	12.596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79156.**	**59124.**
Stddev	223.	75.
%RSD	.28212	.12605
#1	79387.	59169.
#2	78942.	59166.
#3	79138.	59038.

Approved: February 21, 2011

Sample Name: L1102045407 Acquired: 2/18/2011 17:02:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00635**	**27.540**	**.03384**	**.03498**	**1.2624**	**.00535**	**37.605**
Stddev	.00040	.347	.00013	.00270	.0034	.00003	.112
%RSD	6.2683	1.2601	.36963	7.7278	.27158	.57196	.29839
#1	.00639	27.870	.03371	.03244	1.2603	.00537	37.634
#2	.00672	27.571	.03396	.03782	1.2663	.00536	37.701
#3	.00593	27.178	.03386	.03469	1.2605	.00531	37.482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01633**	**.04809**	**.04766**	**1.5676**	**70.275**	**7.3882**	**.03135**
Stddev	.00010	.00025	.00104	.0056	.262	.1385	.00173
%RSD	.63884	.51777	2.1733	.35589	.37350	1.8746	5.5059
#1	.01628	.04818	.04870	1.5612	70.123	7.5033	.03072
#2	.01645	.04780	.04765	1.5701	70.578	7.4269	.03331
#3	.01626	.04827	.04663	1.5714	70.125	7.2345	.03003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.9783**	**6.6203**	**.00189**	**.49262**	**.04781**	F **11224.**	**1.0458**
Stddev	.0557	.0235	.00016	.01552	.00065	38.	.0025
%RSD	.69829	.35541	8.4778	3.1513	1.3526	.34040	.24021
#1	7.9761	6.6109	.00195	.47622	.04725	11188.	1.0472
#2	8.0351	6.6470	.00201	.49455	.04852	11219.	1.0429
#3	7.9237	6.6029	.00171	.50709	.04766	11264.	1.0473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045407 Acquired: 2/18/2011 17:02:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.109**	F **80.877**	F **-1467.2**	**.00100**	**.00967**	**78.207**	**.06655**
Stddev	21.482	.383	16.6	.00118	.00270	.148	.00056
%RSD	71.347	.47295	1.1294	117.60	27.881	.18962	.83912
#1	-12.262	80.460	-1448.2	.00187	.01080	78.378	.06719
#2	-24.113	80.960	-1474.6	.00148	.00659	78.114	.06615
#3	-53.952	81.212	-1478.8	-.00034	.01162	78.129	.06632
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16197**	**.12473**	**.01113**	**.06195**	**1.8984**	**10.609**
Stddev	.00062	.00111	.00158	.00038	.0046	.425
%RSD	.38001	.89265	14.167	.60827	.24265	4.0058
#1	.16166	.12574	.01041	.06235	1.8939	10.536
#2	.16268	.12492	.01005	.06160	1.8982	11.066
#3	.16157	.12354	.01294	.06189	1.9031	10.225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79729.**	**55822.**
Stddev	101.	831.
%RSD	.12628	1.4887
#1	79678.	55302.
#2	79845.	55383.
#3	79664.	56780.

Approved: February 21, 2011

Sample Name: L1102045408 Acquired: 2/18/2011 17:05:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03721**	**26.403**	**.03586**	**.05150**	**2.4865**	**.00547**	**69.397**
Stddev	.00073	.267	.00146	.00131	.0204	.00004	.610
%RSD	1.9707	1.0126	4.0677	2.5392	.82033	.68686	.87859
#1	.03654	26.099	.03735	.05000	2.4662	.00542	68.823
#2	.03711	26.513	.03579	.05244	2.4861	.00549	69.332
#3	.03799	26.598	.03443	.05205	2.5070	.00549	70.037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02414**	**.04521**	**.09466**	**1.1243**	**80.779**	**8.8178**	**.03493**
Stddev	.00007	.00021	.00124	.0029	.679	.0474	.00300
%RSD	.29195	.45891	1.3144	.26118	.84009	.53731	8.5784
#1	.02410	.04512	.09344	1.1212	80.136	8.7682	.03214
#2	.02410	.04507	.09462	1.1245	80.712	8.8224	.03456
#3	.02422	.04545	.09592	1.1271	81.488	8.8626	.03810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.1962**	**6.4574**	**.00406**	**.43118**	**.05339**	F **18108.**	**8.4306**
Stddev	.0993	.0539	.00019	.00500	.00052	78.	.0405
%RSD	1.0793	.83403	4.7907	1.1586	.98178	.43331	.48048
#1	9.0931	6.4032	.00384	.43522	.05293	18039.	8.4112
#2	9.2045	6.4579	.00413	.42559	.05328	18091.	8.4035
#3	9.2911	6.5109	.00420	.43272	.05396	18193.	8.4772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045408 Acquired: 2/18/2011 17:05:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.754**	F **195.26**	F **-4402.9**	**.00485**	**.01114**	**78.046**	**.09153**
Stddev	17.330	.48	13.1	.00143	.00165	1.153	.00037
%RSD	34.146	.24453	.29773	29.483	14.789	1.4775	.40662
#1	-68.277	194.79	-4388.4	.00508	.01125	77.047	.09191
#2	-50.363	195.23	-4406.4	.00332	.01272	77.783	.09152
#3	-33.622	195.75	-4413.9	.00615	.00944	79.308	.09116
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43943**	**.13902**	**.00839**	**.05872**	**6.0212**	**6.6053**
Stddev	.00384	.00073	.00057	.00025	.0193	.1968
%RSD	.87382	.52313	6.7474	.42606	.32112	2.9790
#1	.43578	.13862	.00904	.05875	6.0044	6.3833
#2	.43906	.13859	.00811	.05845	6.0170	6.7582
#3	.44344	.13986	.00803	.05895	6.0423	6.6744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77889.**	**57902.**
Stddev	221.	477.
%RSD	.28324	.82414
#1	78061.	58419.
#2	77965.	57807.
#3	77640.	57479.

Approved: February 21, 2011

Sample Name: L1102045409 Acquired: 2/18/2011 17:09:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**28.885**	**.03343**	**.04702**	**2.1982**	**.00716**	**51.672**
Stddev	.00044	.361	.00242	.00121	.0046	.00008	.078
%RSD	8.5325	1.2513	7.2352	2.5710	.21016	1.1773	.15059
#1	.00568	29.302	.03132	.04588	2.1929	.00725	51.583
#2	.00499	28.688	.03607	.04690	2.2003	.00713	51.727
#3	.00486	28.665	.03290	.04829	2.2015	.00709	51.705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01480**	**.05041**	**.07410**	**1.3587**	**97.261**	**8.3627**	**.04181**
Stddev	.00005	.00002	.00153	.0031	.196	.0818	.00153
%RSD	.33119	.04776	2.0630	.22687	.20125	.97830	3.6516
#1	.01476	.05041	.07583	1.3594	97.036	8.2888	.04023
#2	.01479	.05043	.07292	1.3553	97.358	8.4506	.04195
#3	.01485	.05038	.07357	1.3613	97.390	8.3487	.04327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.247**	**9.2786**	**.00265**	**.37418**	**.04860**	F **13686.**	**4.1055**
Stddev	.027	.0257	.00013	.01771	.00066	39.	.0151
%RSD	.26334	.27698	5.0868	4.7330	1.3621	.28790	.36772
#1	10.249	9.2494	.00278	.36596	.04813	13679.	4.0949
#2	10.219	9.2886	.00266	.39450	.04936	13650.	4.0987
#3	10.273	9.2977	.00251	.36207	.04832	13728.	4.1228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045409 Acquired: 2/18/2011 17:09:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-74.943**	F **118.88**	F **-2323.8**	**.00261**	**.01321**	**79.598**	**.05967**
Stddev	8.778	.24	6.5	.00023	.00321	.331	.00033
%RSD	11.713	.20358	.27783	8.8704	24.326	.41561	.55071
#1	-84.817	119.06	-2330.4	.00238	.01355	79.492	.06004
#2	-71.988	118.60	-2317.5	.00263	.00984	79.332	.05955
#3	-68.024	118.97	-2323.4	.00284	.01625	79.968	.05942
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25241**	**.14217**	**.01088**	**.05616**	**3.2451**	**8.0002**
Stddev	.00036	.00156	.00208	.00033	.0075	.2965
%RSD	.14305	1.0983	19.085	.58824	.23003	3.7065
#1	.25200	.14280	.01200	.05639	3.2413	8.3420
#2	.25266	.14332	.00848	.05578	3.2402	7.8118
#3	.25258	.14039	.01216	.05631	3.2537	7.8468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79621.**	**59005.**
Stddev	296.	626.
%RSD	.37222	1.0604
#1	79926.	58299.
#2	79603.	59491.
#3	79334.	59226.

Approved: February 21, 2011

Sample Name: L1102045410 Acquired: 2/18/2011 17:12:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	**15.441**	**.02429**	**.02700**	**.69893**	**.00368**	**224.70**
Stddev	.00070	.080	.00360	.00073	.00328	.00003	.66
%RSD	15.665	.51789	14.813	2.7176	.46925	.70919	.29325
#1	.00441	15.404	.02016	.02690	.69523	.00370	224.05
#2	.00377	15.386	.02596	.02778	.70008	.00365	224.69
#3	.00516	15.533	.02674	.02633	.70148	.00369	225.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00558**	**.02356**	**.03258**	**.72856**	**48.455**	**5.2943**	**.03179**
Stddev	.00004	.00019	.00044	.00363	.244	.0762	.00209
%RSD	.74476	.78987	1.3626	.49834	.50398	1.4399	6.5894
#1	.00555	.02337	.03285	.72767	48.193	5.2856	.03417
#2	.00563	.02374	.03206	.72546	48.493	5.2227	.03024
#3	.00557	.02357	.03281	.73255	48.677	5.3744	.03096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.186**	**4.0288**	**.03668**	**.47448**	**.03367**	F **7290.4**	**1.0759**
Stddev	.064	.0159	.00029	.01220	.00066	15.8	.0028
%RSD	.48444	.39523	.78778	2.5721	1.9467	.21722	.26210
#1	13.133	4.0115	.03674	.47945	.03345	7298.6	1.0785
#2	13.167	4.0321	.03694	.48342	.03316	7272.1	1.0729
#3	13.257	4.0428	.03637	.46058	.03441	7300.4	1.0764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045410 Acquired: 2/18/2011 17:12:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-65.552**	F **285.27**	F **-2020.0**	**.00885**	**.00693**	**76.409**	**.03610**
Stddev	5.514	1.01	9.0	.00164	.00187	.336	.00052
%RSD	8.4109	.35267	.44725	18.532	26.989	.44010	1.4443
#1	-70.851	284.99	-2017.9	.01007	.00875	76.049	.03668
#2	-65.958	284.43	-2012.2	.00949	.00501	76.714	.03566
#3	-59.847	286.38	-2029.9	.00699	.00705	76.466	.03598
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25207**	**.10031**	**.00729**	**.04871**	**.89310**	**7.1697**
Stddev	.00045	.00136	.00149	.00021	.00402	.2552
%RSD	.17921	1.3592	20.492	.42707	.45044	3.5601
#1	.25157	.10065	.00785	.04887	.89210	6.8750
#2	.25220	.10147	.00559	.04880	.88967	7.3127
#3	.25245	.09881	.00841	.04848	.89753	7.3214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77690.**	**58333.**
Stddev	385.	388.
%RSD	.49571	.66443
#1	77911.	58713.
#2	77914.	58349.
#3	77245.	57938.

Approved: February 21, 2011

Sample Name: L1102045411 Acquired: 2/18/2011 17:16:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356963-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00470**	**23.529**	**.03033**	**.04387**	**1.3746**	**.00517**	**312.04**
Stddev	.00082	.335	.00281	.00060	.0054	.00005	1.38
%RSD	17.457	1.4223	9.2713	1.3605	.39312	.88238	.44267
#1	.00562	23.418	.03355	.04365	1.3709	.00515	310.85
#2	.00404	23.265	.02909	.04342	1.3722	.00513	311.71
#3	.00444	23.906	.02835	.04455	1.3808	.00522	313.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01144**	**.03167**	**.04459**	**.90068**	**60.035**	**6.3590**	**.04269**
Stddev	.00011	.00025	.00104	.00106	.243	.0988	.00216
%RSD	.91991	.80398	2.3314	.11753	.40398	1.5538	5.0580
#1	.01155	.03172	.04510	.90161	59.804	6.2715	.04485
#2	.01135	.03190	.04340	.89953	60.013	6.4662	.04270
#3	.01140	.03140	.04529	.90092	60.287	6.3392	.04053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.298**	**6.3963**	**.02414**	**1.2803**	**.04367**	F **9809.3**	**1.9207**
Stddev	.079	.0293	.00043	.0160	.00022	13.5	.0084
%RSD	.45432	.45830	1.8006	1.2513	.50936	.13728	.43612
#1	17.236	6.3645	.02374	1.2698	.04391	9823.1	1.9303
#2	17.272	6.4021	.02408	1.2988	.04347	9796.1	1.9148
#3	17.386	6.4223	.02460	1.2725	.04363	9808.6	1.9170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045411 Acquired: 2/18/2011 17:16:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356963-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.691**	F **374.67**	F **-2086.7**	**.00307**	**.00671**	F **102.35**	**.06648**
Stddev	6.609	.34	1.9	.00176	.00525	.58	.00074
%RSD	10.889	.09141	.09033	57.434	78.330	.57043	1.1194
#1	-67.254	374.99	-2085.1	.00375	.00457	102.97	.06686
#2	-54.037	374.31	-2088.8	.00107	.01269	102.26	.06562
#3	-60.782	374.73	-2086.2	.00440	.00285	101.82	.06695
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54261**	**.14114**	**.00852**	**.05817**	**1.1295**	**10.792**
Stddev	.00244	.00197	.00064	.00082	.0009	.349
%RSD	.44917	1.3945	7.4912	1.4101	.07765	3.2346
#1	.53993	.13888	.00842	.05750	1.1299	10.393
#2	.54318	.14204	.00921	.05791	1.1284	11.037
#3	.54470	.14249	.00795	.05908	1.1300	10.947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76609.**	**57571.**
Stddev	60.	537.
%RSD	.07822	.93315
#1	76599.	57739.
#2	76673.	58003.
#3	76554.	56969.

Approved: February 21, 2011

Sample Name: L1102045412S Acquired: 2/18/2011 17:20:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356963-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03987**	**22.736**	**.07279**	**.03983**	**1.2153**	**.00485**	**287.27**
Stddev	.00058	.231	.00116	.00142	.0075	.00005	1.11
%RSD	1.4659	1.0145	1.5970	3.5584	.61876	.99056	.38533
#1	.03983	22.995	.07210	.04032	1.2073	.00488	286.02
#2	.03930	22.552	.07215	.04093	1.2161	.00488	287.67
#3	.04047	22.662	.07413	.03823	1.2223	.00479	288.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01325**	**.02911**	**.04363**	**.90159**	**60.599**	**6.0449**	**.04084**
Stddev	.00004	.00013	.00097	.00244	.287	.0352	.00079
%RSD	.31142	.45935	2.2265	.27067	.47377	.58180	1.9292
#1	.01321	.02927	.04448	.90018	60.297	6.0321	.04175
#2	.01326	.02902	.04257	.90019	60.633	6.0847	.04031
#3	.01329	.02905	.04384	.90441	60.868	6.0179	.04047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.540**	**5.9583**	**.02569**	**1.0277**	**.04146**	F **8203.5**	**1.8426**
Stddev	.009	.0185	.00028	.0078	.00115	22.2	.0028
%RSD	.05489	.31118	1.0993	.76215	2.7820	.27048	.15081
#1	16.530	5.9374	.02537	1.0365	.04017	8178.3	1.8450
#2	16.541	5.9645	.02591	1.0254	.04239	8220.3	1.8433
#3	16.548	5.9729	.02579	1.0214	.04182	8211.9	1.8395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045412S Acquired: 2/18/2011 17:20:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356963-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.987**	F **342.39**	F **-1857.1**	**.00548**	**.00860**	F **97.801**	**.06475**
Stddev	21.011	.27	5.1	.00221	.00162	.260	.00039
%RSD	33.896	.07893	.27323	40.374	18.785	.26619	.60494
#1	-44.707	342.37	-1853.8	.00800	.00733	98.101	.06519
#2	-55.877	342.13	-1854.4	.00457	.00807	97.670	.06446
#3	-85.375	342.67	-1862.9	.00387	.01042	97.632	.06458
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46608**	**.13819**	**.00965**	**.05668**	**.97747**	**10.048**
Stddev	.00187	.00219	.00076	.00049	.00056	.030
%RSD	.40080	1.5811	7.8209	.87252	.05734	.29607
#1	.46399	.13607	.00895	.05723	.97748	10.053
#2	.46666	.13807	.00957	.05628	.97690	10.074
#3	.46759	.14044	.01045	.05654	.97802	10.015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78842.**	**59266.**
Stddev	123.	570.
%RSD	.15612	.96216
#1	78709.	58626.
#2	78865.	59721.
#3	78952.	59451.

Approved: February 21, 2011

Sample Name: L1102045413SD Acquired: 2/18/2011 17:23:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356963-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04160**	**20.050**	**.07268**	**.03254**	**1.0139**	**.00453**	**326.32**
Stddev	.00089	.103	.00211	.00122	.0027	.00004	1.20
%RSD	2.1281	.51329	2.9060	3.7534	.26506	.92094	.36764
#1	.04234	20.135	.07153	.03219	1.0109	.00457	324.97
#2	.04062	19.935	.07139	.03153	1.0149	.00453	326.73
#3	.04184	20.079	.07512	.03390	1.0160	.00449	327.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01363**	**.02791**	**.04201**	**.91402**	**57.853**	**5.6097**	**.03933**
Stddev	.00009	.00029	.00098	.00065	.154	.0118	.00134
%RSD	.62502	1.0214	2.3266	.07121	.26558	.20991	3.4080
#1	.01365	.02760	.04285	.91477	57.702	5.5994	.03978
#2	.01354	.02798	.04094	.91359	57.848	5.6225	.04039
#3	.01371	.02816	.04223	.91370	58.009	5.6073	.03782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.692**	**5.9182**	**.03552**	**.74992**	**.04097**	F **7469.8**	**1.4403**
Stddev	.050	.0151	.00049	.01085	.00061	28.9	.0054
%RSD	.28393	.25542	1.3705	1.4464	1.4989	.38672	.37698
#1	17.654	5.9007	.03516	.75415	.04168	7448.9	1.4424
#2	17.672	5.9269	.03534	.73759	.04056	7457.8	1.4341
#3	17.749	5.9269	.03608	.75801	.04068	7502.8	1.4443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045413SD Acquired: 2/18/2011 17:23:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356963-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-69.347**	F **382.70**	F **-1889.5**	**.00371**	**.00517**	F **100.44**	**.05398**
Stddev	23.679	.16	7.0	.00328	.00365	.43	.00040
%RSD	34.145	.04220	.37038	88.547	70.734	.42965	.73811
#1	-53.511	382.62	-1881.5	.00212	.00856	100.81	.05410
#2	-96.568	382.60	-1894.5	.00749	.00129	99.967	.05354
#3	-57.962	382.89	-1892.4	.00152	.00565	100.54	.05431
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37941**	**.12170**	**.00706**	**.05661**	**.93921**	**8.9080**
Stddev	.00173	.00235	.00014	.00069	.00102	.2731
%RSD	.45542	1.9290	1.9175	1.2139	.10841	3.0657
#1	.37765	.12347	.00690	.05719	.93963	8.8133
#2	.37947	.12259	.00715	.05585	.93805	9.2158
#3	.38110	.11903	.00711	.05679	.93995	8.6948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76618.**	**57788.**
Stddev	593.	183.
%RSD	.77361	.31738
#1	75935.	57655.
#2	77001.	57997.
#3	76918.	57713.

Approved: February 21, 2011

Sample Name: L1102045414 Acquired: 2/18/2011 17:27:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00503**	**26.538**	**.03357**	**.04390**	**2.0006**	**.00657**	**48.063**
Stddev	.00101	.166	.00122	.00178	.0036	.00002	.093
%RSD	20.130	.62611	3.6361	4.0515	.18189	.31601	.19399
#1	.00496	26.718	.03337	.04593	1.9964	.00659	47.955
#2	.00405	26.391	.03246	.04315	2.0026	.00656	48.116
#3	.00608	26.504	.03487	.04262	2.0029	.00656	48.117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01330**	**.04660**	**.06342**	**1.1923**	**92.121**	**7.9914**	**.03827**
Stddev	.00018	.00009	.00056	.0011	.204	.0514	.00440
%RSD	1.3372	.18765	.88536	.09336	.22113	.64360	11.508
#1	.01329	.04655	.06401	1.1924	91.886	7.9324	.03963
#2	.01312	.04670	.06333	1.1911	92.233	8.0148	.04183
#3	.01348	.04655	.06290	1.1933	92.244	8.0269	.03334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5217**	**8.6036**	**.00288**	**.36068**	**.06536**	F **12583.**	**3.7242**
Stddev	.0319	.0367	.00020	.00661	.00116	19.	.0137
%RSD	.33528	.42704	7.1082	1.8339	1.7728	.15361	.36854
#1	9.4863	8.5622	.00299	.36643	.06647	12561.	3.7084
#2	9.5302	8.6164	.00300	.35345	.06545	12596.	3.7308
#3	9.5484	8.6323	.00264	.36217	.06416	12593.	3.7333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045414 Acquired: 2/18/2011 17:27:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-75.413**	F **110.61**	F **-2142.5**	**.00505**	**.01170**	**74.283**	**.06088**
Stddev	5.550	.13	11.3	.00202	.00137	.598	.00031
%RSD	7.3595	.11482	.52745	40.054	11.673	.80534	.51724
#1	-77.769	110.61	-2155.2	.00380	.01264	73.968	.06073
#2	-69.074	110.49	-2133.5	.00739	.01233	73.908	.06066
#3	-79.397	110.74	-2138.9	.00397	.01014	74.973	.06124
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23228**	**.13495**	**.01146**	**.05110**	**2.9827**	**7.4924**
Stddev	.00095	.00127	.00228	.00072	.0060	.1148
%RSD	.40975	.93833	19.895	1.4010	.20043	1.5324
#1	.23155	.13354	.01262	.05192	2.9774	7.5743
#2	.23194	.13533	.01292	.05059	2.9816	7.3612
#3	.23336	.13599	.00883	.05080	2.9892	7.5418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79218.**	**59491.**
Stddev	324.	187.
%RSD	.40900	.31464
#1	79535.	59477.
#2	79232.	59685.
#3	78887.	59311.

Approved: February 21, 2011

Sample Name: L1102045415 Acquired: 2/18/2011 17:30:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00432**	**34.936**	**.03321**	**.10404**	**1.5902**	**.00370**	**300.87**
Stddev	.00054	.733	.00110	.00148	.0142	.00005	2.25
%RSD	12.395	2.0968	3.3243	1.4235	.89100	1.2694	.74793
#1	.00407	34.156	.03424	.10233	1.5742	.00364	298.31
#2	.00494	35.041	.03334	.10484	1.5949	.00373	301.79
#3	.00396	35.610	.03204	.10495	1.6014	.00371	302.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01178**	**.02992**	**.05297**	**.99488**	**58.298**	**12.345**	**.03515**
Stddev	.00006	.00021	.00107	.00223	.517	.187	.00107
%RSD	.50677	.70722	2.0205	.22429	.88672	1.5134	3.0473
#1	.01183	.02968	.05197	.99732	57.727	12.131	.03487
#2	.01172	.03007	.05285	.99294	58.431	12.470	.03633
#3	.01181	.03002	.05410	.99438	58.735	12.436	.03424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.319**	**4.0716**	**.00674**	**.54665**	**.03573**	F **22311.**	**2.5424**
Stddev	.136	.0291	.00036	.01024	.00051	79.	.0050
%RSD	.95113	.71416	5.2708	1.8739	1.4338	.35391	.19783
#1	14.179	4.0382	.00715	.54360	.03529	22229.	2.5368
#2	14.325	4.0859	.00658	.53827	.03560	22317.	2.5438
#3	14.451	4.0908	.00650	.55807	.03629	22386.	2.5466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045415 Acquired: 2/18/2011 17:30:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-69.622**	F **492.27**	F **-6775.4**	**.00410**	**.00563**	F **225.56**	**.06053**
Stddev	7.154	.86	21.0	.00313	.00418	1.84	.00018
%RSD	10.275	.17572	.31026	76.423	74.326	.81603	.29725
#1	-61.725	492.99	-6773.0	.00758	.00464	223.86	.06070
#2	-75.667	491.31	-6797.6	.00151	.00202	225.29	.06034
#3	-71.475	492.51	-6755.7	.00320	.01021	227.51	.06056
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.64652**	**.19807**	**.00699**	**.04799**	**3.2009**	**8.7497**
Stddev	.00421	.00162	.00260	.00122	.0102	.3696
%RSD	.65156	.81788	37.205	2.5350	.31755	4.2242
#1	.64178	.19642	.00432	.04666	3.2109	8.3296
#2	.64983	.19812	.00951	.04905	3.1905	9.0249
#3	.64796	.19966	.00714	.04827	3.2012	8.8947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77746.**	**57546.**
Stddev	1194.	831.
%RSD	1.5362	1.4434
#1	76395.	58443.
#2	78662.	57392.
#3	78182.	56803.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 17:34:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38834**	**9.6277**	**.40736**	**.48376**	**1.0109**	**.04869**	**10.070**
Stddev	.00390	.0575	.00382	.00337	.0021	.00024	.023
%RSD	1.0042	.59690	.93675	.69667	.20961	.48713	.22564
#1	.38384	9.5619	.40552	.48135	1.0085	.04845	10.062
#2	.39074	9.6680	.40480	.48761	1.0115	.04892	10.053
#3	.39043	9.6532	.41174	.48233	1.0126	.04871	10.096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05124**	**.20475**	**.48677**	**.50355**	**4.0519**	**50.138**	**1.0144**
Stddev	.00020	.00048	.00315	.00212	.0166	.178	.0027
%RSD	.38845	.23268	.64688	.42170	.41052	.35430	.26375
#1	.05107	.20452	.48358	.50191	4.0371	49.954	1.0114
#2	.05121	.20443	.48988	.50280	4.0488	50.151	1.0154
#3	.05146	.20530	.48684	.50595	4.0699	50.309	1.0165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9511**	**.50617**	**1.0122**	**50.649**	**.51061**	**10.389**	**.51760**
Stddev	.0179	.00192	.0028	.118	.00227	4.729	.00126
%RSD	.18001	.37955	.27642	.23393	.44463	45.525	.24286
#1	9.9370	.50411	1.0103	50.522	.50979	6.7549	.51733
#2	9.9451	.50649	1.0108	50.669	.50886	15.736	.51651
#3	9.9713	.50792	1.0154	50.756	.51317	8.6755	.51898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 17:34:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.560**	**10.215**	F **11.035**	**1.2336**	**.40965**	F **4.2248**	**1.0170**
Stddev	21.003	.070	2.122	.0037	.00357	.1632	.0027
%RSD	28.945	.68514	19.227	.29875	.87239	3.8625	.26814
#1	-68.573	10.144	9.0559	1.2309	.40673	4.0366	1.0151
#2	-95.271	10.218	10.775	1.2321	.40858	4.3102	1.0157
#3	-53.837	10.283	13.275	1.2378	.41363	4.3275	1.0201
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0080**	**1.0194**	**.51195**	**.96871**	**1.0042**	F **1.4496**
Stddev	.0023	.0054	.00200	.00586	.0040	.2761
%RSD	.22930	.52598	.39110	.60451	.39349	19.044
#1	1.0059	1.0135	.51078	.96201	1.0016	1.1603
#2	1.0078	1.0210	.51080	.97284	1.0023	1.4782
#3	1.0105	1.0238	.51426	.97128	1.0088	1.7102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77709.**	**57007.**
Stddev	167.	323.
%RSD	.21491	.56708
#1	77610.	57210.
#2	77615.	56634.
#3	77902.	57176.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 17:37:36 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.01093**	**.00105**	**-.00018**	**-.00104**	**.00004**	**.01820**
Stddev	.00056	.00096	.00094	.00127	.00046	.00002	.00738
%RSD	148.44	8.8056	89.188	713.97	44.054	60.923	40.561
#1	.00100	-.01197	.00095	-.00060	-.00114	.00002	.01268
#2	-.00006	-.01008	.00017	.00125	-.00145	.00007	.02658
#3	.00018	-.01073	.00203	-.00118	-.00054	.00003	.01533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00009**	**-.00031**	**-.00072**	**.00139**	**-.08763**	**-.00026**
Stddev	.00005	.00015	.00015	.00037	.00144	.04938	.00152
%RSD	274.98	156.70	49.110	51.625	103.65	56.353	594.43
#1	.00003	.00025	-.00033	-.00115	.00263	-.03104	-.00195
#2	-.00004	-.00004	-.00015	-.00052	-.00019	-.10987	.00022
#3	.00006	.00008	-.00045	-.00049	.00175	-.12197	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00865**	**.00009**	**.00035**	**.03787**	**.00139**	F **-8.6983**	**.00140**
Stddev	.00494	.00027	.00020	.01038	.00024	10.559	.00188
%RSD	57.080	322.11	56.921	27.416	17.131	121.39	134.74
#1	-.01282	-.00014	.00016	.04677	.00166	-15.295	.00084
#2	-.00995	.00001	.00055	.04036	.00124	3.4798	.00350
#3	-.00320	.00039	.00034	.02647	.00125	-14.280	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 17:37:36 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.939**	F **-.08647**	F **6.6254**	**-.00384**	**.00278**	**-.03860**	**.00078**
Stddev	4.778	.02392	1.5754	.00182	.00112	.06388	.00027
%RSD	8.6962	27.666	23.779	47.305	40.158	165.49	34.052
#1	-49.745	-.05938	8.3926	-.00533	.00188	-.05855	.00060
#2	-59.146	-.09532	6.1153	-.00182	.00244	-.09013	.00066
#3	-55.925	-.10471	5.3681	-.00439	.00403	.03287	.00109
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00138**	**.00307**	**-.00008**	**.00021**	F **.71497**
Stddev	.00015	.00077	.00057	.00037	.00005	.11913
%RSD	75.553	55.541	18.487	468.90	24.889	16.662
#1	-.00010	.00070	.00250	-.00013	.00021	.60345
#2	-.00012	.00221	.00306	-.00042	.00016	.84047
#3	-.00036	.00123	.00364	.00032	.00026	.70100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80619.**	**58544.**
Stddev	166.	299.
%RSD	.20604	.51148
#1	80434.	58822.
#2	80756.	58227.
#3	80667.	58584.

Approved: February 21, 2011

Sample Name: L1102045416 Acquired: 2/18/2011 17:41:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00486**	**38.475**	**.03131**	**.07733**	**1.7618**	**.00563**	**241.25**
Stddev	.00128	.041	.00314	.00124	.0054	.00005	.37
%RSD	26.273	.10662	10.030	1.6062	.30806	.83218	.15512
#1	.00432	38.434	.03234	.07680	1.7578	.00567	240.84
#2	.00632	38.516	.02778	.07875	1.7680	.00563	241.58
#3	.00395	38.473	.03380	.07645	1.7596	.00558	241.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01101**	**.03986**	**.05605**	**1.0232**	**73.964**	**11.992**	**.03985**
Stddev	.00015	.00019	.00044	.0011	.185	.028	.00257
%RSD	1.3875	.47275	.79001	.11110	.24987	.23080	6.4427
#1	.01090	.03976	.05610	1.0244	73.840	11.998	.04280
#2	.01118	.03975	.05646	1.0231	74.177	12.016	.03854
#3	.01094	.04008	.05558	1.0222	73.877	11.962	.03820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.794**	**5.9527**	**.00571**	**.64005**	**.04359**	F **17252.**	**2.3898**
Stddev	.027	.0151	.00005	.01290	.00018	38.	.0042
%RSD	.19578	.25339	.88845	2.0158	.41583	.22133	.17632
#1	13.777	5.9372	.00576	.64570	.04379	17212.	2.3853
#2	13.825	5.9673	.00570	.62529	.04354	17287.	2.3937
#3	13.780	5.9537	.00566	.64916	.04344	17259.	2.3902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045416 Acquired: 2/18/2011 17:41:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-89.770**	F **387.65**	F **-5149.3**	**.00803**	**.00576**	F **194.49**	**.06209**
Stddev	7.616	.94	24.9	.00092	.00551	.75	.00037
%RSD	8.4836	.24207	.48394	11.435	95.670	.38533	.59447
#1	-87.573	388.06	-5165.8	.00861	.01109	195.32	.06225
#2	-83.494	388.33	-5161.4	.00697	.00009	193.87	.06236
#3	-98.243	386.58	-5120.6	.00850	.00609	194.29	.06167
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49456**	**.23594**	**.00749**	**.04771**	**2.6717**	**12.490**
Stddev	.00051	.00185	.00049	.00036	.0023	.183
%RSD	.10281	.78302	6.5058	.76232	.08615	1.4677
#1	.49398	.23803	.00693	.04777	2.6707	12.694
#2	.49475	.23452	.00778	.04732	2.6743	12.341
#3	.49494	.23528	.00776	.04803	2.6700	12.434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78541.**	**60127.**
Stddev	69.	255.
%RSD	.08762	.42491
#1	78593.	60405.
#2	78463.	59903.
#3	78566.	60073.

Approved: February 21, 2011

Sample Name: L1102045417 Acquired: 2/18/2011 17:44:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00406**	**23.819**	**.02450**	**.04423**	**1.0206**	**.00541**	**43.440**
Stddev	.00030	.244	.00086	.00115	.0028	.00007	.064
%RSD	7.4758	1.0248	3.5093	2.5980	.27749	1.2563	.14676
#1	.00391	23.586	.02448	.04330	1.0177	.00533	43.410
#2	.00385	24.073	.02365	.04388	1.0207	.00546	43.396
#3	.00441	23.798	.02537	.04552	1.0233	.00544	43.513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00896**	**.04165**	**.05351**	**1.1329**	**73.682**	**10.492**	**.04480**
Stddev	.00011	.00014	.00060	.0043	.292	.063	.00278
%RSD	1.2253	.32516	1.1240	.38018	.39657	.59903	6.2070
#1	.00884	.04158	.05282	1.1289	73.398	10.520	.04619
#2	.00897	.04180	.05388	1.1323	73.668	10.421	.04159
#3	.00906	.04155	.05384	1.1375	73.982	10.537	.04660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5634**	**6.4387**	**.00308**	**.23952**	**.04833**	F **23766.**	**2.2034**
Stddev	.0635	.0201	.00023	.02901	.00021	114.	.0085
%RSD	.66442	.31192	7.5796	12.112	.43173	.48135	.38384
#1	9.4971	6.4176	.00334	.26818	.04857	23657.	2.1949
#2	9.5695	6.4410	.00301	.24021	.04817	23756.	2.2035
#3	9.6238	6.4576	.00289	.21017	.04827	23885.	2.2119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045417 Acquired: 2/18/2011 17:44:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.597**	F **126.51**	F **-2886.8**	**.00408**	**.00776**	**53.219**	**.04696**
Stddev	31.932	.47	17.0	.00295	.00174	1.153	.00044
%RSD	68.526	.37149	.59043	72.120	22.422	2.1665	.92675
#1	-83.260	126.05	-2867.3	.00230	.00595	52.212	.04648
#2	-31.656	126.49	-2893.7	.00748	.00942	52.969	.04734
#3	-24.876	126.99	-2899.2	.00247	.00791	54.477	.04704
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29185**	**.12166**	**.00908**	**.05110**	**1.9746**	**7.0963**
Stddev	.00071	.00186	.00084	.00037	.0064	.1769
%RSD	.24182	1.5254	9.2654	.71721	.32330	2.4933
#1	.29149	.12260	.00998	.05067	1.9690	6.9331
#2	.29139	.11952	.00893	.05133	1.9733	7.0714
#3	.29266	.12286	.00832	.05128	1.9816	7.2843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78609.**	**57389.**
Stddev	535.	809.
%RSD	.68080	1.4094
#1	77991.	58323.
#2	78903.	56927.
#3	78932.	56918.

Approved: February 21, 2011

Sample Name: L1102045418 Acquired: 2/18/2011 17:48:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00507**	**26.092**	**.02987**	**.04473**	**1.3932**	**.00691**	**45.590**
Stddev	.00038	.100	.00116	.00167	.0089	.00004	.188
%RSD	7.5426	.38374	3.8790	3.7256	.64145	.58086	.41262
#1	.00551	26.004	.03046	.04343	1.3880	.00686	45.374
#2	.00492	26.201	.03062	.04661	1.3880	.00692	45.673
#3	.00479	26.072	.02854	.04416	1.4035	.00694	45.722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01179**	**.05326**	**.05661**	**1.5790**	**85.886**	**8.7863**	**.05668**
Stddev	.00022	.00015	.00007	.0075	.473	.0476	.00059
%RSD	1.9051	.28309	.12003	.47571	.55094	.54229	1.0463
#1	.01153	.05309	.05661	1.5722	85.479	8.8160	.05706
#2	.01194	.05338	.05668	1.5778	85.774	8.7313	.05600
#3	.01190	.05332	.05655	1.5871	86.405	8.8115	.05698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.686**	**8.2406**	**.00152**	**.21774**	**.05722**	F **24951.**	**2.6170**
Stddev	.044	.0420	.00015	.00478	.00107	196.	.0233
%RSD	.40915	.50931	10.117	2.1936	1.8720	.78724	.89012
#1	10.636	8.1932	.00163	.22040	.05615	24743.	2.5922
#2	10.703	8.2557	.00134	.21222	.05829	24978.	2.6206
#3	10.719	8.2730	.00158	.22060	.05722	25133.	2.6384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045418 Acquired: 2/18/2011 17:48:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.880**	F **134.35**	F **-3034.9**	**.00588**	**.01235**	**58.091**	**.06685**
Stddev	18.021	.77	14.5	.00410	.00208	.525	.00034
%RSD	34.078	.57177	.47721	69.733	16.851	.90292	.51203
#1	-34.616	133.64	-3019.9	.00123	.01392	57.487	.06658
#2	-70.647	134.25	-3036.0	.00897	.00999	58.440	.06674
#3	-53.378	135.17	-3048.8	.00745	.01314	58.344	.06724
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31890**	**.13203**	**.01087**	**.05925**	**2.3704**	**7.3063**
Stddev	.00106	.00130	.00122	.00022	.0106	.2215
%RSD	.33346	.98748	11.194	.36514	.44735	3.0314
#1	.31771	.13055	.00973	.05900	2.3610	7.0721
#2	.31975	.13250	.01215	.05936	2.3683	7.5124
#3	.31924	.13302	.01074	.05939	2.3819	7.3343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79470.**	**58442.**
Stddev	1153.	207.
%RSD	1.4508	.35417
#1	78150.	58632.
#2	79981.	58221.
#3	80279.	58472.

Approved: February 21, 2011

Sample Name: L1102045419 Acquired: 2/18/2011 17:51:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01094**	**20.792**	**.02487**	**.05334**	**.87558**	**.00489**	**65.340**
Stddev	.00030	.384	.00138	.00092	.00925	.00008	.535
%RSD	2.7803	1.8473	5.5673	1.7307	1.0564	1.6957	.81897
#1	.01107	20.370	.02562	.05354	.86745	.00480	64.912
#2	.01115	20.882	.02571	.05233	.87366	.00492	65.168
#3	.01059	21.122	.02327	.05414	.88565	.00496	65.940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00604**	**.03908**	**.03946**	**.94084**	**67.349**	**9.3436**	**.04507**
Stddev	.00018	.00056	.00090	.01660	.673	.0998	.00253
%RSD	3.0220	1.4421	2.2729	1.7645	1.0000	1.0685	5.6210
#1	.00587	.03857	.03847	.92490	66.751	9.3555	.04498
#2	.00601	.03900	.03970	.93961	67.216	9.2384	.04765
#3	.00623	.03968	.04021	.95803	68.079	9.4370	.04259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.296**	**5.3975**	**.00319**	**.30010**	**.04425**	F **25971.**	**1.5674**
Stddev	.084	.0428	.00024	.00778	.00161	393.	.0236
%RSD	.81412	.79390	7.5403	2.5940	3.6298	1.5144	1.5059
#1	10.223	5.3615	.00331	.29440	.04301	25587.	1.5455
#2	10.278	5.3861	.00291	.29692	.04368	25951.	1.5644
#3	10.387	5.4449	.00335	.30897	.04607	26373.	1.5924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045419 Acquired: 2/18/2011 17:51:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.471**	F **165.15**	F **-3312.3**	**.00138**	**.01035**	**65.676**	**.05313**
Stddev	10.477	2.73	63.3	.00091	.00082	1.187	.00081
%RSD	19.235	1.6545	1.9102	66.125	7.9475	1.8066	1.5231
#1	-66.555	162.59	-3254.3	.00220	.01051	64.688	.05229
#2	-48.951	164.83	-3302.8	.00040	.01108	65.349	.05322
#3	-47.908	168.03	-3379.8	.00152	.00946	66.992	.05390
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50867**	**.10909**	**.00856**	**.04507**	**1.5124**	**4.5855**
Stddev	.00318	.00283	.00087	.00117	.0234	.2867
%RSD	.62569	2.5936	10.110	2.5895	1.5481	6.2512
#1	.50645	.10611	.00803	.04374	1.4900	4.2774
#2	.50725	.10940	.00810	.04556	1.5106	4.6350
#3	.51232	.11174	.00956	.04591	1.5367	4.8443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80221.**	**59518.**
Stddev	510.	432.
%RSD	.63572	.72656
#1	79647.	59971.
#2	80392.	59475.
#3	80623.	59109.

Approved: February 21, 2011

Sample Name: L1102045420 Acquired: 2/18/2011 17:55:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00311**	**21.084**	**.02183**	**.05435**	**.87935**	**.00516**	**61.824**
Stddev	.00066	.162	.00146	.00106	.00285	.00003	.193
%RSD	21.334	.76902	6.6823	1.9518	.32372	.61189	.31223
#1	.00262	20.910	.02280	.05555	.87624	.00513	61.605
#2	.00386	21.111	.02252	.05355	.87997	.00515	61.896
#3	.00285	21.231	.02015	.05395	.88183	.00519	61.970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00537**	**.03903**	**.03826**	**.84993**	**70.587**	**8.5549**	**.04621**
Stddev	.00009	.00016	.00047	.00045	.261	.0282	.00045
%RSD	1.6306	.41020	1.2240	.05308	.37016	.32915	.97747
#1	.00531	.03887	.03808	.84943	70.315	8.5224	.04640
#2	.00547	.03902	.03791	.85005	70.609	8.5725	.04569
#3	.00533	.03919	.03879	.85030	70.836	8.5697	.04653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.371**	**5.3792**	**.00340**	**.30713**	**.04268**	F **21632.**	**1.4673**
Stddev	.017	.0123	.00014	.00570	.00099	19.	.0018
%RSD	.16249	.22801	4.0907	1.8555	2.3255	.08809	.12024
#1	10.351	5.3656	.00351	.31226	.04289	21610.	1.4655
#2	10.381	5.3823	.00324	.30100	.04160	21642.	1.4690
#3	10.381	5.3895	.00344	.30813	.04356	21643.	1.4674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045420 Acquired: 2/18/2011 17:55:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-80.105**	F **146.25**	F **-2910.9**	**.00228**	**.01089**	**61.563**	**.04345**
Stddev	13.273	.13	2.5	.00184	.00363	.526	.00061
%RSD	16.570	.08916	.08522	80.961	33.303	.85493	1.4009
#1	-79.138	146.40	-2912.7	.00401	.01103	61.698	.04340
#2	-67.343	146.15	-2911.8	.00248	.01445	62.008	.04287
#3	-93.836	146.20	-2908.1	.00034	.00720	60.982	.04409
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49407**	**.11122**	**.00765**	**.04646**	**1.3286**	**4.5938**
Stddev	.00086	.00080	.00007	.00061	.0025	.1594
%RSD	.17485	.72183	.90248	1.3219	.18957	3.4704
#1	.49309	.11208	.00765	.04610	1.3258	4.4764
#2	.49446	.11049	.00772	.04611	1.3305	4.5298
#3	.49468	.11109	.00758	.04717	1.3296	4.7753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79918.**	**60742.**
Stddev	352.	555.
%RSD	.44014	.91332
#1	80305.	61379.
#2	79618.	60477.
#3	79831.	60369.

Approved: February 21, 2011

Sample Name: L1102045421 Acquired: 2/18/2011 17:58:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00341**	**22.241**	**.02003**	**.03295**	**.83551**	**.00546**	**28.882**
Stddev	.00077	.069	.00140	.00048	.00293	.00003	.128
%RSD	22.726	.30896	7.0138	1.4697	.35022	.61407	.44177
#1	.00425	22.289	.02130	.03351	.83308	.00550	28.797
#2	.00272	22.162	.01852	.03269	.83469	.00545	28.820
#3	.00326	22.272	.02027	.03265	.83876	.00543	29.029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00498**	**.04144**	**.04625**	**.53236**	**73.032**	**8.0877**	**.04423**
Stddev	.00007	.00009	.00118	.00073	.147	.0379	.00242
%RSD	1.4114	.21499	2.5414	.13732	.20099	.46859	5.4782
#1	.00503	.04134	.04752	.53206	72.958	8.1264	.04698
#2	.00500	.04151	.04605	.53182	72.937	8.0862	.04239
#3	.00490	.04146	.04520	.53319	73.202	8.0506	.04334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.5577**	**4.7973**	**.00154**	**.18159**	**.05492**	F **9337.9**	**1.1623**
Stddev	.0250	.0117	.00017	.01954	.00062	24.5	.0012
%RSD	.29244	.24407	10.793	10.762	1.1306	.26204	.10711
#1	8.5430	4.7902	.00159	.19947	.05519	9310.6	1.1612
#2	8.5434	4.7909	.00168	.18458	.05536	9345.0	1.1620
#3	8.5866	4.8108	.00135	.16072	.05421	9358.0	1.1636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045421 Acquired: 2/18/2011 17:58:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-74.479**	F **90.318**	F **-2124.8**	**-.00036**	**.00712**	**64.833**	**.01719**
Stddev	13.058	.058	6.2	.00102	.00315	.311	.00031
%RSD	17.532	.06392	.29112	286.44	44.247	.47923	1.7756
#1	-59.991	90.384	-2126.5	.00032	.01038	64.639	.01684
#2	-78.105	90.276	-2130.0	.00015	.00409	64.668	.01735
#3	-85.340	90.294	-2118.0	-.00153	.00690	65.191	.01738
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08777**	**.11189**	**.00672**	**.05241**	**1.2817**	**7.3059**
Stddev	.00048	.00362	.00201	.00076	.0032	.4198
%RSD	.54297	3.2328	29.873	1.4524	.25079	5.7459
#1	.08742	.11000	.00857	.05329	1.2792	7.3334
#2	.08758	.10961	.00459	.05200	1.2806	7.7112
#3	.08831	.11606	.00698	.05195	1.2853	6.8730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80338.**	**59739.**
Stddev	401.	411.
%RSD	.49935	.68756
#1	80454.	59266.
#2	80668.	60003.
#3	79891.	59949.

Approved: February 21, 2011

Sample Name: L1102045422 Acquired: 2/18/2011 18:02:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**19.617**	**.01165**	**.03087**	**.86040**	**.00589**	**10.471**
Stddev	.00039	.190	.00055	.00065	.00594	.00003	.063
%RSD	20.953	.96907	4.7325	2.1014	.69055	.56864	.60157
#1	.00204	19.465	.01109	.03016	.85371	.00589	10.414
#2	.00140	19.554	.01220	.03100	.86244	.00585	10.459
#3	.00208	19.830	.01166	.03144	.86505	.00592	10.539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.03833**	**.03288**	**.17097**	**73.591**	**6.0905**	**.04008**
Stddev	.00001	.00020	.00087	.00061	.620	.0779	.00189
%RSD	.92016	.52069	2.6394	.35582	.84291	1.2782	4.7039
#1	.00145	.03816	.03189	.17034	72.907	6.0194	.03853
#2	.00142	.03828	.03350	.17155	73.748	6.0784	.03953
#3	.00144	.03855	.03326	.17101	74.118	6.1737	.04218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.7546**	**5.4354**	**.00043**	**.14382**	**.04458**	F **2731.3**	**.31761**
Stddev	.0359	.0335	.00006	.01589	.00121	11.2	.00165
%RSD	.53167	.61539	14.544	11.046	2.7236	.40888	.51871
#1	6.7228	5.3983	.00046	.12567	.04419	2743.1	.31574
#2	6.7474	5.4447	.00047	.15059	.04594	2720.8	.31824
#3	6.7936	5.4632	.00036	.15520	.04360	2730.1	.31885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045422 Acquired: 2/18/2011 18:02:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-68.823**	F **22.271**	F **-376.59**	**-.00254**	**.00614**	**89.771**	**.00371**
Stddev	5.966	.178	3.93	.00421	.00373	.666	.00018
%RSD	8.6688	.79762	1.0427	165.56	60.726	.74185	4.8943
#1	-62.131	22.223	-374.89	-.00145	.00913	90.402	.00358
#2	-70.754	22.122	-373.80	-.00719	.00196	89.836	.00392
#3	-73.585	22.467	-381.08	.00101	.00732	89.075	.00363
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05203**	**.09583**	**.00781**	**.04003**	**.54648**	**3.8584**
Stddev	.00020	.00232	.00051	.00031	.00347	.1111
%RSD	.39063	2.4221	6.5196	.76596	.63537	2.8784
#1	.05183	.09414	.00743	.03974	.54318	3.7756
#2	.05204	.09847	.00839	.04000	.54615	3.9846
#3	.05223	.09486	.00762	.04035	.55010	3.8149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78878.**	**58647.**
Stddev	201.	329.
%RSD	.25489	.56092
#1	79097.	58821.
#2	78835.	58853.
#3	78701.	58268.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 18:05:48 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38866**	**9.7098**	**.41287**	**.48262**	**1.0133**	**.04851**	**10.078**
Stddev	.00152	.0779	.00151	.00364	.0032	.00028	.028
%RSD	.39150	.80185	.36590	.75436	.31326	.57603	.27745
#1	.38895	9.6900	.41167	.48249	1.0114	.04847	10.050
#2	.38702	9.6438	.41238	.47905	1.0116	.04825	10.106
#3	.39002	9.7957	.41457	.48633	1.0170	.04881	10.078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05175**	**.20549**	**.48509**	**.50715**	**4.0504**	**50.439**	**1.0172**
Stddev	.00007	.00063	.00145	.00182	.0236	.303	.0035
%RSD	.13844	.30679	.29847	.35881	.58375	.60157	.34606
#1	.05167	.20484	.48531	.50530	4.0457	50.141	1.0174
#2	.05178	.20553	.48355	.50723	4.0294	50.428	1.0136
#3	.05180	.20610	.48642	.50893	4.0760	50.748	1.0206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.049**	**.50714**	**1.0172**	**50.740**	**.51438**	F **2.3033**	**.52115**
Stddev	.032	.00186	.0042	.179	.00108	11.598	.00241
%RSD	.31382	.36641	.40775	.35242	.21036	503.55	.46204
#1	10.042	.50519	1.0126	50.670	.51422	-9.5223	.52392
#2	10.021	.50733	1.0184	50.606	.51338	2.7719	.51967
#3	10.083	.50890	1.0207	50.943	.51553	13.660	.51984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 18:05:48 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-70.392**	**10.172**	F **13.769**	**1.2399**	**.41513**	F **4.0619**	**1.0256**
Stddev	18.133	.083	.486	.0037	.00350	.1222	.0022
%RSD	25.761	.81119	3.5260	.30008	.84401	3.0077	.21234
#1	-49.510	10.087	13.209	1.2378	.41215	3.9383	1.0232
#2	-82.161	10.252	14.063	1.2378	.41424	4.1826	1.0262
#3	-79.506	10.175	14.036	1.2442	.41899	4.0647	1.0275
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0112**	**1.0391**	**.51402**	**.96170**	**1.0114**	F **1.5409**
Stddev	.0024	.0031	.00177	.00408	.0029	.3252
%RSD	.23936	.30054	.34386	.42463	.28419	21.108
#1	1.0087	1.0356	.51264	.96242	1.0087	1.8785
#2	1.0115	1.0414	.51341	.95730	1.0111	1.2296
#3	1.0135	1.0403	.51601	.96537	1.0145	1.5145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76903.**	**56806.**
Stddev	319.	47.
%RSD	.41531	.08208
#1	76995.	56755.
#2	77166.	56845.
#3	76548.	56818.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 18:09:19 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**-.00794**	**.00155**	**-.00077**	**-.00059**	**.00003**	**-.01258**
Stddev	.00037	.00281	.00198	.00080	.00021	.00002	.00218
%RSD	38.458	35.351	127.62	103.54	34.714	64.182	17.330
#1	.00068	-.01037	.00381	-.00120	-.00072	.00005	-.01451
#2	.00082	-.00487	.00014	.00015	-.00036	.00002	-.01022
#3	.00138	-.00858	.00069	-.00126	-.00070	.00002	-.01303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00002**	**-.00053**	**-.00103**	**.00057**	**-.01700**	**-.00238**
Stddev	.00010	.00005	.00075	.00023	.00514	.06602	.00401
%RSD	1880.5	251.81	142.06	22.894	905.77	388.29	168.07
#1	-.00004	.00004	-.00111	-.00085	-.00360	-.01489	.00157
#2	-.00006	-.00004	-.00079	-.00094	.00632	-.08405	-.00228
#3	.00012	-.00006	.00032	-.00129	-.00101	.04794	-.00644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01096**	**.00017**	**.00040**	**.02953**	**.00058**	F **.66331**	**.00391**
Stddev	.01041	.00079	.00008	.00539	.00022	7.4659	.00114
%RSD	94.968	449.59	19.247	18.248	37.391	1125.6	29.291
#1	-.02241	.00098	.00032	.02362	.00078	2.0991	.00353
#2	-.00206	.00013	.00039	.03417	.00062	-7.4162	.00300
#3	-.00842	-.00059	.00048	.03081	.00035	7.3071	.00519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 18:09:19 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-35.794**	F **-.17544**	F **6.0831**	**-.00334**	**.00467**	**-.17195**	**.00048**
Stddev	3.313	.02614	1.4912	.00083	.00141	.15998	.00019
%RSD	9.2567	14.898	24.514	24.839	30.150	93.041	39.883
#1	-35.737	-.20511	7.3667	-.00243	.00401	-.25433	.00044
#2	-39.135	-.15583	4.4473	-.00354	.00629	.01244	.00068
#3	-32.509	-.16538	6.4352	-.00405	.00372	-.27395	.00031
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00035**	**.00189**	**.00001**	**.00007**	F **.60711**
Stddev	.00010	.00206	.00036	.00008	.00004	.17605
%RSD	833.04	596.34	18.778	897.69	51.066	28.999
#1	.00005	-.00176	.00175	.00008	.00011	.72426
#2	.00004	.00236	.00163	-.00008	.00004	.69241
#3	-.00013	.00044	.00230	.00002	.00007	.40465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78048.**	**56161.**
Stddev	451.	520.
%RSD	.57771	.92588
#1	77597.	56734.
#2	78499.	56028.
#3	78047.	55720.

Approved: February 21, 2011

Sample Name: PBS 4P Acquired: 2/18/2011 18:13:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356952-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**-.00944**	**.00023**	**-.00171**	**-.00041**	**.00002**	**.13253**
Stddev	.00101	.00394	.00213	.00163	.00030	.00001	.01341
%RSD	90.163	41.665	941.80	95.160	73.283	45.913	10.117
#1	.00081	-.01362	.00077	-.00222	-.00053	.00003	.12377
#2	.00226	-.00581	.00203	-.00302	-.00063	.00001	.12586
#3	.00030	-.00891	-.00212	.00011	-.00007	.00002	.14797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00059**	**-.00020**	**-.00064**	**.00426**	**-.03704**	**-.00359**
Stddev	.00005	.00019	.00010	.00041	.00413	.02657	.00122
%RSD	156.00	32.868	49.624	64.855	96.993	71.725	34.092
#1	.00003	-.00070	-.00025	-.00028	-.00050	-.01674	-.00248
#2	.00009	-.00037	-.00026	-.00054	.00697	-.02727	-.00339
#3	-.00002	-.00070	-.00008	-.00109	.00631	-.06711	-.00490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05567**	**.00147**	**-.00019**	**.07159**	**.00171**	F **-20.146**	**.00344**
Stddev	.00602	.00056	.00035	.02127	.00042	10.758	.00183
%RSD	10.818	37.684	180.57	29.716	24.643	53.401	53.366
#1	.05155	.00208	-.00038	.05957	.00215	-14.763	.00200
#2	.06258	.00100	.00021	.09616	.00165	-13.142	.00281
#3	.05289	.00134	-.00041	.05906	.00132	-32.533	.00550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: PBS 4P Acquired: 2/18/2011 18:13:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356952-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.492**	**.61767**	F **-12.636**	**-.00236**	**.00846**	**1.7975**	**.00131**
Stddev	8.938	.04475	1.998	.00123	.00180	.2846	.00008
%RSD	17.028	7.2449	15.809	52.346	21.234	15.833	5.9012
#1	-45.634	.58838	-10.430	-.00102	.00924	1.4691	.00124
#2	-62.601	.66919	-14.322	-.00259	.00640	1.9524	.00131
#3	-49.241	.59546	-13.155	-.00346	.00973	1.9712	.00139
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00207**	**-.00094**	**-.00001**	**.00222**	**.69771**
Stddev	.00011	.00197	.00127	.00048	.00003	.10382
%RSD	26.372	95.205	135.34	3972.1	1.2439	14.880
#1	.00054	.00345	.00050	-.00012	.00224	.63407
#2	.00035	-.00019	-.00192	-.00043	.00219	.64154
#3	.00036	.00294	-.00140	.00051	.00223	.81750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76633.**	**56249.**
Stddev	823.	350.
%RSD	1.0745	.62234
#1	77324.	56652.
#2	76853.	56077.
#3	75722.	56018.

Approved: February 21, 2011

Sample Name: LCSS 4P Acquired: 2/18/2011 18:16:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356952-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18802**	**-.01225**	**.19436**	**-.00022**	**-.00084**	**.00005**	**.01472**
Stddev	.00246	.00221	.00126	.00023	.00040	.00005	.01972
%RSD	1.3101	18.046	.64815	107.01	47.331	95.332	134.00
#1	.18595	-.01243	.19320	-.00040	-.00074	.00001	.02230
#2	.18738	-.00995	.19420	.00004	-.00051	.00010	.02953
#3	.19075	-.01436	.19570	-.00029	-.00128	.00004	-.00767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02475**	**-.00036**	**-.00012**	**.24944**	**-.00056**	**-.15449**	**.00078**
Stddev	.00006	.00004	.00009	.00077	.00346	.02530	.00232
%RSD	.24427	10.936	79.610	.30953	617.90	16.374	297.32
#1	.02472	-.00032	-.00002	.24855	-.00405	-.14083	.00032
#2	.02470	-.00039	-.00013	.24993	.00287	-.18368	-.00128
#3	.02482	-.00038	-.00021	.24984	-.00050	-.13897	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00799**	**.25802**	**-.00018**	**.02690**	**.00180**	F **-17.813**	**.26134**
Stddev	.00787	.00136	.00017	.01751	.00026	4.149	.00250
%RSD	98.535	.52894	92.945	65.103	14.180	23.295	.95606
#1	.00158	.25648	-.00026	.03087	.00152	-22.602	.25951
#2	.01677	.25907	-.00029	.00774	.00188	-15.284	.26033
#3	.00561	.25850	.00001	.04209	.00201	-15.553	.26419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: LCSS 4P Acquired: 2/18/2011 18:16:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356952-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.459**	**.00222**	**1.9852**	**-.00141**	**.00609**	**1.0961**	**.00037**
Stddev	10.009	.02052	1.4102	.00017	.00236	.1485	.00031
%RSD	24.739	924.89	71.037	12.206	38.833	13.549	82.738
#1	-51.241	.01061	1.5927	-.00125	.00835	.92619	.00024
#2	-31.464	.01721	3.5500	-.00159	.00627	1.1606	.00072
#3	-38.673	-.02117	.81277	-.00138	.00364	1.2014	.00015
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00029**	**-.00004**	**.00013**	**.00248**	**.33326**
Stddev	.00008	.00025	.00080	.00021	.00007	.15145
%RSD	161.49	87.161	1899.6	158.76	2.7239	45.446
#1	-.00014	-.00033	-.00084	.00004	.00249	.45274
#2	.00002	-.00052	-.00005	.00038	.00240	.16293
#3	-.00004	-.00002	.00076	-.00001	.00254	.38412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79348.**	**57069.**
Stddev	235.	264.
%RSD	.29666	.46226
#1	79353.	57316.
#2	79111.	57101.
#3	79581.	56791.

Approved: February 21, 2011

Sample Name: L1102044801 Acquired: 2/18/2011 18:20:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**38.896**	**.31025**	**.03987**	**.53164**	**.00270**	**44.664**
Stddev	.00110	.315	.00100	.00208	.00175	.00003	.110
%RSD	51.385	.80985	.32348	5.2275	.32906	.93869	.24618
#1	.00284	38.709	.31018	.03751	.53127	.00269	44.645
#2	.00272	38.720	.30929	.04063	.53355	.00268	44.783
#3	.00087	39.260	.31129	.04146	.53011	.00273	44.565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00459**	**.01714**	**.04362**	**.43586**	**64.228**	**11.093**	**.03613**
Stddev	.00021	.00015	.00055	.00121	.144	.072	.00096
%RSD	4.6218	.86153	1.2518	.27841	.22348	.64757	2.6642
#1	.00454	.01698	.04384	.43477	64.243	11.166	.03642
#2	.00441	.01714	.04300	.43562	64.364	11.022	.03692
#3	.00483	.01728	.04403	.43717	64.078	11.091	.03506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.4502**	**2.0667**	**.00292**	**.75886**	**.03204**	F **4225.1**	**.57823**
Stddev	.0093	.0065	.00024	.00714	.00075	5.7	.00229
%RSD	.12469	.31203	8.2022	.94058	2.3350	.13464	.39550
#1	7.4609	2.0686	.00278	.76625	.03158	4218.5	.57617
#2	7.4461	2.0720	.00320	.75831	.03164	4228.3	.58069
#3	7.4438	2.0596	.00279	.75201	.03290	4228.5	.57782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044801 Acquired: 2/18/2011 18:20:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-80.152**	F **99.854**	F **-1913.6**	**.00191**	**.00628**	**42.272**	**.01732**
Stddev	19.644	.154	7.6	.00170	.00220	.189	.00011
%RSD	24.509	.15425	.39715	88.697	35.094	.44786	.61780
#1	-66.822	99.695	-1906.0	.00164	.00597	42.344	.01733
#2	-102.71	99.865	-1913.6	.00037	.00862	42.416	.01721
#3	-70.923	100.00	-1921.2	.00373	.00424	42.058	.01743
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11483**	**.15396**	**.00562**	**.06738**	**.85454**	**14.571**
Stddev	.00033	.00153	.00207	.00041	.00145	.094
%RSD	.28670	.99692	36.786	.60689	.16927	.64509
#1	.11517	.15485	.00585	.06691	.85342	14.604
#2	.11481	.15218	.00756	.06760	.85403	14.465
#3	.11451	.15484	.00345	.06763	.85618	14.644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80090.**	**60539.**
Stddev	468.	559.
%RSD	.58474	.92320
#1	80542.	61043.
#2	80122.	60635.
#3	79607.	59938.

Approved: February 21, 2011

Sample Name: L1102044801PS Acquired: 2/18/2011 18:23:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356995-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19841**	**41.797**	**.50595**	**1.0151**	**1.0249**	**.02714**	**48.460**
Stddev	.00090	.118	.00307	.0012	.0027	.00009	.008
%RSD	.45350	.28269	.60585	.11644	.26079	.31759	.01563
#1	.19820	41.678	.50242	1.0137	1.0219	.02708	48.457
#2	.19940	41.798	.50795	1.0156	1.0259	.02724	48.468
#3	.19763	41.914	.50748	1.0159	1.0270	.02711	48.454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03064**	**.11938**	**.28268**	**.67104**	**64.439**	**36.278**	**.54410**
Stddev	.00015	.00027	.00181	.00280	.137	.134	.00290
%RSD	.48904	.22831	.63917	.41676	.21230	.36809	.53240
#1	.03053	.11914	.28065	.67387	64.284	36.129	.54294
#2	.03059	.11932	.28329	.67097	64.544	36.320	.54740
#3	.03081	.11968	.28411	.66828	64.489	36.386	.54196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.268**	**2.2501**	**.52296**	**26.829**	**.28569**	F **4146.8**	**.81468**
Stddev	.008	.0030	.00123	.104	.00164	20.6	.00183
%RSD	.06341	.13397	.23601	.38586	.57519	.49572	.22509
#1	12.275	2.2466	.52433	26.713	.28680	4131.4	.81286
#2	12.260	2.2518	.52264	26.864	.28646	4138.8	.81464
#3	12.268	2.2518	.52192	26.911	.28380	4170.1	.81653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044801PS Acquired: 2/18/2011 18:23:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356995-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-69.398**	F **101.32**	F **-1834.3**	**.60966**	**.21159**	F **343.18**	**.01791**
Stddev	8.835	.20	8.5	.00206	.00173	1.03	.00037
%RSD	12.731	.19306	.46115	.33817	.81836	.30118	2.0833
#1	-78.239	101.54	-1840.9	.60874	.21321	342.77	.01758
#2	-60.569	101.23	-1837.3	.60821	.20976	342.42	.01831
#3	-69.385	101.17	-1824.8	.61202	.21179	344.36	.01783
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.61549**	**.66110**	**.25971**	**.55369**	**1.3422**	**14.874**
Stddev	.00071	.00188	.00135	.00184	.0009	.080
%RSD	.11529	.28411	.51918	.33309	.06449	.53449
#1	.61598	.66110	.25878	.55180	1.3424	14.791
#2	.61581	.65921	.25909	.55380	1.3412	14.949
#3	.61467	.66297	.26126	.55548	1.3429	14.884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78117.**	**58142.**
Stddev	164.	359.
%RSD	.20994	.61813
#1	78301.	58389.
#2	77986.	58306.
#3	78065.	57729.

Approved: February 21, 2011

Sample Name: L1102044801SDL Acquired: 2/18/2011 18:27:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: ~~5~~ 25 Custom ID2: Custom ID3:
Comment: WG356995-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00149**	**8.0729**	**.06340**	**.00882**	**.10310**	**.00055**	**8.6822**
Stddev	.00133	.0740	.00089	.00136	.00022	.00002	.0276
%RSD	89.214	.91656	1.3983	15.432	.21394	3.2529	.31766
#1	.00085	7.9894	.06399	.00767	.10336	.00053	8.6527
#2	.00061	8.1304	.06238	.01033	.10299	.00055	8.6866
#3	.00303	8.0989	.06383	.00848	.10296	.00056	8.7073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.00354**	**.00823**	**.08765**	**12.575**	**2.1183**	**.00345**
Stddev	.00008	.00029	.00051	.00018	.011	.0434	.00063
%RSD	10.589	8.1813	6.2455	.20204	.08810	2.0464	18.107
#1	.00082	.00385	.00771	.08771	12.568	2.0924	.00346
#2	.00084	.00327	.00825	.08745	12.569	2.1683	.00282
#3	.00069	.00351	.00873	.08779	12.588	2.0941	.00407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4802**	**.40679**	**.00095**	**.17185**	**.00699**	**833.89**	**.11945**
Stddev	.0156	.00100	.00018	.01009	.00111	4.42	.00117
%RSD	1.0515	.24527	18.391	5.8700	15.851	.52950	.97692
#1	1.4861	.40574	.00088	.17105	.00615	836.21	.12037
#2	1.4625	.40690	.00115	.18232	.00658	836.66	.11984
#3	1.4919	.40772	.00083	.16219	.00825	828.80	.11814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044801SDL Acquired: 2/18/2011 18:27:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: ~~5~~ 25 Custom ID2: Custom ID3:
Comment: WG356995-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.521**	F **19.909**	F **-365.84**	**-.00384**	**.00272**	**7.8633**	**.00305**
Stddev	16.840	.171	3.34	.00182	.00084	.1585	.00015
%RSD	36.198	.86068	.91334	47.478	30.982	2.0153	4.9873
#1	-64.720	19.752	-363.57	-.00569	.00263	7.8886	.00318
#2	-43.353	19.883	-364.27	-.00204	.00193	8.0076	.00288
#3	-31.491	20.092	-369.67	-.00378	.00360	7.6937	.00308
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02199**	**.02960**	**.00252**	**.01344**	**.17438**	**2.8426**
Stddev	.00020	.00152	.00019	.00069	.00073	.0754
%RSD	.92783	5.1288	7.6245	5.1329	.41831	2.6538
#1	.02181	.02870	.00235	.01271	.17355	2.8923
#2	.02195	.03136	.00247	.01408	.17493	2.7558
#3	.02221	.02875	.00273	.01354	.17465	2.8798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78954.**	**57442.**
Stddev	1312.	257.
%RSD	1.6611	.44685
#1	78350.	57737.
#2	78054.	57319.
#3	80459.	57269.

Approved: February 21, 2011

Sample Name: L1102044801SDL Acquired: 2/18/2011 18:30:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: ~~5~~ 125 Custom ID2: Custom ID3:
Comment: WG356995-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00145**	**1.5629**	**.01369**	**.00068**	**.01967**	**.00010**	**1.7033**
Stddev	.00038	.0077	.00137	.00113	.00008	.00001	.0113
%RSD	26.295	.49191	10.033	164.69	.41079	14.451	.66407
#1	.00162	1.5714	.01502	.00195	.01975	.00011	1.7146
#2	.00102	1.5566	.01377	.00030	.01969	.00009	1.7033
#3	.00172	1.5605	.01227	-.00020	.01959	.00010	1.6920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00068**	**.00089**	**.01560**	**2.4462**	**.36245**	**.00027**
Stddev	.00008	.00012	.00017	.00055	.0068	.03011	.00176
%RSD	317.25	17.612	18.660	3.5217	.27874	8.3076	648.11
#1	.00001	.00058	.00108	.01543	2.4478	.33670	-.00176
#2	.00011	.00081	.00080	.01516	2.4521	.39556	.00113
#3	-.00005	.00064	.00078	.01622	2.4388	.35508	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29220**	**.07982**	**-.00024**	**.06632**	**.00227**	**139.66**	**.02728**
Stddev	.02646	.00024	.00014	.01995	.00046	7.66	.00170
%RSD	9.0539	.30669	57.760	30.085	20.220	5.4870	6.2209
#1	.26246	.07993	-.00012	.08881	.00275	131.44	.02590
#2	.30105	.07998	-.00021	.05939	.00183	146.61	.02677
#3	.31310	.07954	-.00039	.05075	.00225	140.95	.02918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102044801SDL Acquired: 2/18/2011 18:30:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: ~~5~~ 125 Custom ID2: Custom ID3:
Comment: WG356995-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.563**	**3.5179**	F **-60.646**	**-.00458**	**.00382**	**.73758**	**.00036**
Stddev	13.715	.0395	3.656	.00086	.00285	.08657	.00019
%RSD	23.420	1.1228	6.0278	18.810	74.519	11.737	53.053
#1	-42.750	3.5580	-63.998	-.00475	.00067	.63802	.00015
#2	-65.716	3.4791	-56.749	-.00534	.00622	.79512	.00041
#3	-67.223	3.5167	-61.192	-.00364	.00457	.77960	.00051
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00420**	**.00523**	**.00360**	**.00272**	**.03434**	**.95125**
Stddev	.00012	.00009	.00095	.00027	.00018	.07669
%RSD	2.9573	1.6605	26.325	10.024	.52261	8.0619
#1	.00406	.00519	.00305	.00268	.03420	.99467
#2	.00430	.00533	.00469	.00302	.03428	.99638
#3	.00422	.00517	.00305	.00248	.03454	.86270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81790.**	**59416.**
Stddev	265.	437.
%RSD	.32376	.73558
#1	81503.	59203.
#2	82026.	59919.
#3	81841.	59126.

Approved: February 21, 2011

Sample Name: L1102044802 Acquired: 2/18/2011 18:34:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01653**	**59.370**	**.13533**	**.10896**	**1.2874**	**.00324**	**287.54**
Stddev	.00034	.386	.00313	.00129	.0006	.00002	.54
%RSD	2.0542	.64973	2.3155	1.1863	.04671	.51253	.18663
#1	.01614	58.928	.13286	.10896	1.2881	.00324	286.98
#2	.01667	59.546	.13428	.10767	1.2870	.00325	287.59
#3	.01678	59.636	.13886	.11025	1.2871	.00322	288.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02950**	**.04079**	**.09440**	**9.4988**	**213.07**	**11.662**	**.08020**
Stddev	.00016	.00014	.00090	.0224	.13	.046	.00309
%RSD	.54327	.34361	.94869	.23584	.05969	.39361	3.8527
#1	.02967	.04066	.09339	9.4783	212.93	11.666	.07826
#2	.02936	.04078	.09508	9.4954	213.07	11.706	.07857
#3	.02947	.04094	.09474	9.5227	213.19	11.614	.08376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.054**	**17.144**	**.01560**	**1.1624**	**.09006**	F **11543.**	**3.5702**
Stddev	.073	.032	.00037	.0060	.00031	32.	.0083
%RSD	.33324	.18384	2.3608	.51265	.34469	.27617	.23177
#1	22.004	17.110	.01576	1.1626	.09008	11520.	3.5744
#2	22.021	17.149	.01586	1.1564	.08974	11530.	3.5607
#3	22.139	17.173	.01518	1.1683	.09036	11579.	3.5756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044802 Acquired: 2/18/2011 18:34:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-93.350**	F **865.82**	F **-20513.**	**.01664**	**.04373**	**74.386**	**.11403**
Stddev	2.247	3.05	95.	.00170	.00274	.467	.00024
%RSD	2.4075	.35275	.46357	10.224	6.2662	.62837	.20898
#1	-93.995	863.18	-20435.	.01845	.04320	74.115	.11426
#2	-95.204	865.11	-20486.	.01642	.04670	74.117	.11378
#3	-90.850	869.16	-20619.	.01506	.04129	74.926	.11406
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28464**	**.22712**	**.02259**	**.10942**	**5.6007**	**17.840**
Stddev	.00024	.00037	.00095	.00132	.0118	.224
%RSD	.08589	.16256	4.2232	1.2022	.20987	1.2557
#1	.28448	.22716	.02349	.10872	5.5891	17.599
#2	.28492	.22673	.02159	.10859	5.6004	17.881
#3	.28452	.22746	.02267	.11093	5.6126	18.041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78984.**	**60292.**
Stddev	53.	308.
%RSD	.06714	.51070
#1	78938.	60619.
#2	79042.	60007.
#3	78973.	60250.

Approved: February 21, 2011

Sample Name: L1102044803 Acquired: 2/18/2011 18:37:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01393**	**57.373**	**.11106**	**.08814**	**1.0746**	**.00239**	**398.88**
Stddev	.00062	.118	.00265	.00143	.0033	.00003	.38
%RSD	4.4780	.20544	2.3895	1.6228	.30854	1.1397	.09644
#1	.01437	57.502	.11276	.08965	1.0732	.00237	398.43
#2	.01321	57.347	.10800	.08680	1.0722	.00238	399.12
#3	.01420	57.271	.11243	.08798	1.0784	.00242	399.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01572**	**.02890**	**.07960**	**3.4874**	**123.84**	**9.2841**	**.14097**
Stddev	.00006	.00038	.00076	.0109	.31	.0371	.00311
%RSD	.38625	1.3193	.95632	.31287	.25382	.40005	2.2038
#1	.01569	.02928	.07911	3.4982	123.73	9.3205	.14161
#2	.01568	.02852	.07922	3.4764	123.59	9.2855	.13759
#3	.01579	.02891	.08048	3.4876	124.19	9.2463	.14371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**75.745**	**10.615**	**.00355**	**.44585**	**.05604**	F **8998.4**	**2.1997**
Stddev	.125	.010	.00006	.01057	.00072	34.5	.0143
%RSD	.16517	.09754	1.7829	2.3697	1.2775	.38348	.64934
#1	75.603	10.603	.00352	.43871	.05537	9034.9	2.2162
#2	75.795	10.619	.00350	.45799	.05679	8966.3	2.1906
#3	75.837	10.622	.00362	.44086	.05596	8994.1	2.1924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044803 Acquired: 2/18/2011 18:37:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-91.431**	F **2760.5**	F **-85171.**	**.00771**	**.01513**	**55.282**	**.05431**
Stddev	6.162	6.9	226.	.00226	.00123	.544	.00020
%RSD	6.7399	.25117	.26565	29.261	8.1615	.98377	.36297
#1	-84.397	2767.6	-85387.	.00553	.01616	55.452	.05432
#2	-95.881	2753.8	-84936.	.00756	.01376	54.674	.05410
#3	-94.014	2760.0	-85191.	.01003	.01547	55.721	.05449
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.79225**	**1.0022**	**.01415**	**.07752**	**2.8344**	**29.609**
Stddev	.00177	.0022	.00059	.00112	.0104	.238
%RSD	.22373	.22456	4.1601	1.4487	.36604	.80238
#1	.79127	1.0028	.01387	.07741	2.8458	29.856
#2	.79430	.99969	.01375	.07646	2.8255	29.589
#3	.79119	1.0041	.01483	.07870	2.8320	29.383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77525.**	**60413.**
Stddev	230.	97.
%RSD	.29719	.15981
#1	77360.	60474.
#2	77788.	60463.
#3	77426.	60301.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 18:41:22 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37601**	**9.3253**	**.40002**	**.46612**	**.98343**	**.04665**	**9.8030**
Stddev	.00041	.0340	.00136	.00155	.00527	.00009	.0555
%RSD	.10868	.36513	.34039	.33239	.53592	.18301	.56640
#1	.37582	9.3449	.40095	.46759	.97735	.04675	9.7401
#2	.37574	9.2860	.40066	.46626	.98618	.04659	9.8239
#3	.37648	9.3451	.39846	.46450	.98676	.04661	9.8451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05013**	**.19907**	**.46452**	**.49069**	**3.9186**	**49.028**	**.98689**
Stddev	.00025	.00042	.00090	.00041	.0247	.262	.00622
%RSD	.50054	.20945	.19293	.08365	.63046	.53535	.62987
#1	.05015	.19938	.46468	.49093	3.8901	48.729	.97974
#2	.04987	.19860	.46356	.49022	3.9310	49.135	.99102
#3	.05038	.19924	.46533	.49093	3.9346	49.220	.98991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7638**	**.49225**	**.98409**	**49.164**	**.49913**	F **-.03567**	**.50468**
Stddev	.0658	.00365	.00086	.315	.00205	10.289	.00203
%RSD	.67362	.74191	.08767	.64163	.41156	28847.	.40144
#1	9.6929	.48804	.98474	48.800	.49967	-5.9221	.50568
#2	9.7757	.49455	.98311	49.364	.49686	11.845	.50602
#3	9.8228	.49416	.98442	49.327	.50087	-6.0297	.50235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 18:41:22 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-70.934**	**9.8707**	F **11.365**	**1.2003**	**.40312**	F **4.0152**	**.99098**
Stddev	11.812	.0535	2.468	.0013	.00222	.1694	.00060
%RSD	16.652	.54175	21.713	.10836	.55179	4.2178	.06017
#1	-84.571	9.8636	8.5185	1.2018	.40328	3.8375	.99167
#2	-63.927	9.8212	12.903	1.1994	.40082	4.1747	.99071
#3	-64.304	9.9274	12.672	1.1998	.40526	4.0336	.99057
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98481**	**1.0089**	**.50096**	**.93043**	**.97848**	F **2.1434**
Stddev	.00532	.0092	.00158	.00254	.00084	.1039
%RSD	.54018	.91578	.31441	.27320	.08590	4.8472
#1	.97938	.99829	.49931	.93336	.97852	2.2620
#2	.98505	1.0149	.50114	.92883	.97762	2.0682
#3	.99001	1.0136	.50245	.92910	.97930	2.1001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79352.**	**59249.**
Stddev	142.	184.
%RSD	.17845	.31053
#1	79268.	59400.
#2	79515.	59303.
#3	79272.	59044.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 18:44:53 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**-.01714**	**.00227**	**-.00086**	**-.00093**	**.00006**	**.01561**
Stddev	.00008	.00222	.00078	.00040	.00027	.00001	.00464
%RSD	6.8783	12.952	34.423	46.415	29.383	19.882	29.746
#1	.00107	-.01858	.00169	-.00120	-.00064	.00006	.02017
#2	.00122	-.01458	.00197	-.00042	-.00118	.00007	.01089
#3	.00115	-.01825	.00316	-.00094	-.00096	.00004	.01578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00011**	**-.00063**	**-.00108**	**-.00215**	**-.05065**	**-.00025**
Stddev	.00004	.00012	.00037	.00057	.00614	.06210	.00305
%RSD	33.737	107.49	58.508	52.866	285.53	122.61	1243.2
#1	-.00007	-.00011	-.00036	-.00174	-.00263	-.03167	.00074
#2	-.00010	.00001	-.00048	-.00073	.00422	-.00025	-.00367
#3	-.00014	-.00022	-.00104	-.00078	-.00804	-.12003	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00040**	**.00044**	**.05855**	**.00067**	F **-8.1369**	**.00260**
Stddev	.02270	.00042	.00001	.01841	.00069	9.2245	.00294
%RSD	4934.2	105.46	2.5665	31.441	103.97	113.37	112.99
#1	-.01973	.00044	.00043	.07896	.00118	1.6051	.00475
#2	.02457	-.00004	.00045	.05348	.00093	-16.738	-.00075
#3	-.00622	.00079	.00044	.04321	-.00012	-9.2779	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 18:44:53 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.170**	F **-.14783**	F **6.4934**	**-.00303**	**.00569**	**-.25858**	**.00056**
Stddev	13.359	.05616	1.9839	.00157	.00537	.20001	.00018
%RSD	28.322	37.988	30.552	51.882	94.417	77.349	32.636
#1	-58.471	-.20604	8.7777	-.00455	.00694	-.48025	.00052
#2	-50.613	-.14345	5.2028	-.00141	.01032	-.20388	.00076
#3	-32.426	-.09398	5.4997	-.00314	-.00020	-.09161	.00041
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00061**	**.00181**	**-.00010**	**.00014**	F **.54411**
Stddev	.00017	.00250	.00084	.00048	.00004	.17261
%RSD	75.440	406.83	46.215	484.13	30.957	31.724
#1	-.00019	.00010	.00147	-.00023	.00017	.34988
#2	-.00040	.00333	.00276	-.00050	.00009	.60250
#3	-.00007	-.00159	.00119	.00043	.00015	.67996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79173.**	**58627.**
Stddev	1024.	293.
%RSD	1.2929	.49994
#1	80248.	58899.
#2	79060.	58317.
#3	78210.	58666.

Approved: February 21, 2011

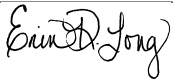
Sample Name: L1102044804 Acquired: 2/18/2011 18:48:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00474**	**52.780**	**.04920**	**.06746**	**.71272**	**.00448**	**50.542**
Stddev	.00062	.717	.00174	.00120	.00752	.00006	.497
%RSD	13.035	1.3593	3.5275	1.7794	1.0550	1.3594	.98411
#1	.00510	51.953	.04720	.06644	.70452	.00441	50.055
#2	.00403	53.154	.05025	.06715	.71435	.00452	50.523
#3	.00509	53.233	.05016	.06878	.71929	.00451	51.049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00675**	**.04677**	**.06475**	**2.9076**	**130.69**	**8.9714**	**.06333**
Stddev	.00012	.00055	.00046	.0336	1.42	.1095	.00121
%RSD	1.8341	1.1856	.70453	1.1572	1.0886	1.2210	1.9083
#1	.00689	.04631	.06423	2.8773	129.18	8.8522	.06443
#2	.00664	.04663	.06496	2.9016	130.87	8.9946	.06203
#3	.00672	.04739	.06507	2.9438	132.01	9.0675	.06352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.546**	**2.5920**	**.00533**	**.39994**	**.06739**	F **7062.1**	**2.8704**
Stddev	.199	.0249	.00005	.01029	.00134	78.2	.0355
%RSD	1.3676	.96168	.96149	2.5723	1.9914	1.1075	1.2360
#1	14.334	2.5666	.00532	.39625	.06625	6988.5	2.8384
#2	14.576	2.5928	.00529	.41156	.06706	7053.6	2.8642
#3	14.728	2.6165	.00539	.39200	.06887	7144.2	2.9085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011



Sample Name: L1102044804 Acquired: 2/18/2011 18:48:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.631**	F **193.86**	F **-4950.9**	**.07147**	**.01621**	**61.104**	**.12047**
Stddev	16.992	2.14	55.1	.00401	.00197	.488	.00142
%RSD	28.980	1.1039	1.1139	5.6086	12.147	.79873	1.1778
#1	-63.257	191.89	-4900.9	.06955	.01447	60.653	.11991
#2	-72.831	193.56	-4941.7	.06878	.01582	61.035	.11942
#3	-39.806	196.14	-5010.0	.07608	.01835	61.622	.12209
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20855**	**.09981**	**.00492**	**.05467**	**1.3583**	**14.304**
Stddev	.00218	.00176	.00081	.00080	.0152	.369
%RSD	1.0446	1.7642	16.418	1.4605	1.1181	2.5778
#1	.20662	.09975	.00431	.05376	1.3452	13.884
#2	.20812	.09808	.00462	.05500	1.3547	14.450
#3	.21091	.10160	.00584	.05524	1.3750	14.576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80091.**	**58726.**
Stddev	391.	164.
%RSD	.48832	.27925
#1	79667.	58913.
#2	80437.	58658.
#3	80170.	58606.

Approved: February 21, 2011

Sample Name: L1102044805 Acquired: 2/18/2011 18:52:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01527**	**52.258**	**.07593**	**.08817**	**2.8514**	**.00466**	**167.34**
Stddev	.00117	.264	.00122	.00184	.0225	.00006	1.62
%RSD	7.6395	.50579	1.6030	2.0825	.78944	1.2072	.96714
#1	.01437	51.956	.07501	.09019	2.8280	.00460	165.88
#2	.01659	52.372	.07731	.08661	2.8535	.00470	167.07
#3	.01485	52.447	.07547	.08770	2.8729	.00469	169.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01642**	**.04350**	**.09789**	**3.7510**	**132.57**	**11.562**	**.06602**
Stddev	.00048	.00073	.00046	.0669	1.04	.078	.00200
%RSD	2.9025	1.6883	.46798	1.7848	.78185	.67357	3.0266
#1	.01600	.04288	.09747	3.6834	131.52	11.497	.06372
#2	.01631	.04331	.09838	3.7523	132.60	11.542	.06726
#3	.01694	.04431	.09783	3.8173	133.59	11.649	.06708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.019**	**3.1506**	**.00550**	**1.2723**	**.06703**	F **12008.**	**5.7544**
Stddev	.124	.0289	.00028	.0124	.00047	188.	.0829
%RSD	.77564	.91671	5.0416	.97618	.69524	1.5640	1.4399
#1	15.880	3.1239	.00519	1.2822	.06649	11838.	5.6822
#2	16.055	3.1466	.00559	1.2583	.06727	11977.	5.7361
#3	16.121	3.1812	.00572	1.2763	.06732	12209.	5.8449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102044805 Acquired: 2/18/2011 18:52:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-78.456**	F **1269.6**	F **-38915.**	**.02086**	**.01551**	**68.238**	**.21003**
Stddev	14.934	20.8	633.	.00223	.00370	.980	.00389
%RSD	19.035	1.6356	1.6269	10.704	23.831	1.4359	1.8518
#1	-61.426	1248.5	-38295.	.02265	.01504	67.373	.20619
#2	-84.620	1270.1	-38889.	.01836	.01208	68.038	.20995
#3	-89.322	1290.1	-39560.	.02157	.01942	69.302	.21397
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.5057**	**.15912**	**.00698**	**.06542**	**4.8543**	**18.637**
Stddev	.0157	.00062	.00131	.00059	.0862	.132
%RSD	1.0406	.38981	18.713	.90897	1.7767	.70857
#1	1.4911	.15929	.00547	.06476	4.7673	18.784
#2	1.5038	.15843	.00780	.06560	4.8559	18.529
#3	1.5223	.15964	.00766	.06591	4.9398	18.598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77562.**	**58779.**
Stddev	639.	161.
%RSD	.82337	.27416
#1	78299.	58625.
#2	77179.	58766.
#3	77208.	58947.

Approved: February 21, 2011

Sample Name: L1102045501 Acquired: 2/18/2011 18:55:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00339**	**50.626**	**.02002**	**.05013**	**.76843**	**.00628**	**14.189**
Stddev	.00059	.159	.00030	.00070	.00201	.00005	.046
%RSD	17.361	.31308	1.4833	1.3954	.26149	.74050	.32281
#1	.00407	50.798	.01997	.05091	.77041	.00627	14.211
#2	.00303	50.596	.01974	.04993	.76848	.00634	14.219
#3	.00308	50.485	.02033	.04955	.76639	.00625	14.136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**.04457**	**.07676**	**.50186**	**103.25**	**11.989**	**.08937**
Stddev	.00009	.00008	.00030	.00215	.45	.076	.00159
%RSD	2.5429	.17391	.38692	.42814	.43309	.63184	1.7824
#1	.00359	.04466	.07651	.49971	103.66	12.063	.08846
#2	.00356	.04452	.07709	.50401	103.31	11.993	.09121
#3	.00342	.04453	.07669	.50187	102.78	11.911	.08843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.9248**	**3.7970**	**.00203**	**.56286**	**.06289**	F **7478.0**	**1.0368**
Stddev	.0440	.0114	.00041	.00582	.00042	13.1	.0029
%RSD	.55486	.30114	20.276	1.0347	.67322	.17520	.28066
#1	7.9537	3.8003	.00166	.56343	.06240	7465.9	1.0335
#2	7.9465	3.8064	.00247	.56837	.06317	7476.0	1.0377
#3	7.8742	3.7842	.00197	.55677	.06310	7491.9	1.0392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045501 Acquired: 2/18/2011 18:55:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-69.030**	F **62.362**	F **-1689.2**	**.00039**	**.00656**	**47.984**	**.03170**
Stddev	17.091	.021	4.3	.00314	.00410	.436	.00056
%RSD	24.758	.03331	.25168	809.40	62.535	.90785	1.7658
#1	-54.387	62.353	-1689.7	.00219	.00513	47.605	.03106
#2	-64.894	62.347	-1693.2	.00221	.01119	48.460	.03195
#3	-87.809	62.386	-1684.7	-.00324	.00336	47.886	.03209
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09300**	**.26358**	**.00804**	**.08163**	**.89674**	**10.341**
Stddev	.00016	.00185	.00080	.00007	.00163	.099
%RSD	.17205	.70111	9.9340	.08399	.18196	.95877
#1	.09283	.26207	.00738	.08171	.89496	10.240
#2	.09315	.26301	.00893	.08162	.89712	10.343
#3	.09303	.26564	.00783	.08157	.89816	10.439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79575.**	**58274.**
Stddev	219.	188.
%RSD	.27496	.32286
#1	79808.	58122.
#2	79542.	58216.
#3	79375.	58485.

Approved: February 21, 2011

Sample Name: L1102045502 Acquired: 2/18/2011 18:58:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00247**	**56.386**	**.01854**	**.05388**	**.75487**	**.00691**	**10.959**
Stddev	.00058	.227	.00145	.00055	.00164	.00002	.029
%RSD	23.573	.40292	7.8334	1.0150	.21779	.25499	.26859
#1	.00307	56.602	.01983	.05406	.75301	.00691	10.926
#2	.00244	56.149	.01881	.05326	.75550	.00688	10.970
#3	.00191	56.406	.01697	.05431	.75611	.00692	10.982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**.04719**	**.08295**	**.37705**	**112.91**	**13.332**	**.10183**
Stddev	.00005	.00007	.00101	.00081	.37	.154	.00369
%RSD	2.6416	.14933	1.2145	.21356	.32861	1.1560	3.6237
#1	.00206	.04727	.08381	.37791	112.50	13.243	.09827
#2	.00201	.04716	.08184	.37691	113.00	13.243	.10158
#3	.00196	.04714	.08320	.37632	113.22	13.510	.10563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.3955**	**4.0925**	**.00169**	**.38709**	**.06741**	F **8248.9**	**.74659**
Stddev	.0104	.0132	.00022	.00397	.00009	32.4	.00249
%RSD	.12365	.32251	13.223	1.0257	.13405	.39275	.33363
#1	8.3964	4.0775	.00163	.38297	.06751	8248.4	.74807
#2	8.3847	4.0976	.00150	.39090	.06737	8216.7	.74371
#3	8.4054	4.1024	.00193	.38739	.06734	8281.5	.74798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045502 Acquired: 2/18/2011 18:58:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.665**	F **34.230**	F **-796.91**	**-.00040**	**.00680**	**43.141**	**.02286**
Stddev	9.243	.054	2.67	.00347	.00397	.305	.00031
%RSD	16.908	.15777	.33525	871.83	58.362	.70692	1.3494
#1	-47.961	34.199	-798.60	.00337	.00253	43.305	.02258
#2	-65.209	34.293	-798.29	-.00345	.01038	42.789	.02319
#3	-50.825	34.200	-793.83	-.00112	.00749	43.329	.02283
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10233**	**.28505**	**.00767**	**.09183**	**.68580**	**10.913**
Stddev	.00024	.00129	.00155	.00067	.00120	.093
%RSD	.23471	.45085	20.254	.73115	.17511	.84854
#1	.10207	.28412	.00590	.09200	.68715	11.010
#2	.10239	.28652	.00880	.09109	.68484	10.906
#3	.10253	.28451	.00831	.09240	.68542	10.825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78575.**	**57131.**
Stddev	1504.	411.
%RSD	1.9137	.71883
#1	77183.	57182.
#2	78372.	57514.
#3	80170.	56697.

Approved: February 21, 2011

Sample Name: L1102045503 Acquired: 2/18/2011 19:02:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00433**	**42.542**	**.02735**	**.06688**	**1.5056**	**.00753**	**73.096**
Stddev	.00023	.095	.00208	.00094	.0074	.00001	.306
%RSD	5.2927	.22307	7.6034	1.4099	.49366	.19507	.41904
#1	.00454	42.455	.02761	.06579	1.4970	.00753	72.743
#2	.00437	42.527	.02929	.06748	1.5092	.00752	73.294
#3	.00408	42.643	.02515	.06736	1.5105	.00755	73.250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01770**	**.05497**	**.09096**	**.75586**	**112.41**	**10.429**	**.05572**
Stddev	.00005	.00045	.00010	.00511	.55	.101	.00058
%RSD	.25569	.82496	.11535	.67658	.48765	.97135	1.0378
#1	.01765	.05451	.09101	.75122	111.78	10.328	.05517
#2	.01774	.05541	.09084	.76134	112.69	10.531	.05568
#3	.01771	.05500	.09103	.75501	112.77	10.427	.05632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6627**	**8.4969**	**.00449**	**.62301**	**.06509**	F **10146.**	**1.7318**
Stddev	.0487	.0391	.00013	.01364	.00105	103.	.0187
%RSD	.50385	.46070	2.8750	2.1897	1.6097	1.0104	1.0778
#1	9.6070	8.4521	.00457	.61503	.06399	10030.	1.7108
#2	9.6971	8.5248	.00434	.61523	.06519	10224.	1.7465
#3	9.6841	8.5137	.00455	.63876	.06608	10184.	1.7380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045503 Acquired: 2/18/2011 19:02:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-75.219**	F **202.82**	F **-4495.1**	**-.00094**	**.01218**	**57.697**	**.06724**
Stddev	16.068	1.37	27.2	.00288	.00196	.660	.00023
%RSD	21.362	.67601	.60554	306.51	16.089	1.1445	.33613
#1	-89.502	201.44	-4467.2	-.00309	.01379	57.467	.06714
#2	-78.333	204.18	-4521.6	-.00207	.01277	58.441	.06750
#3	-57.821	202.85	-4496.5	.00234	.01000	57.182	.06709
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16212**	**.21029**	**.01170**	**.06812**	**4.8477**	**2.7587**
Stddev	.00047	.00381	.00116	.00070	.0395	.3119
%RSD	.28960	1.8108	9.8780	1.0239	.81397	11.306
#1	.16164	.20589	.01041	.06757	4.8034	3.0162
#2	.16257	.21258	.01265	.06790	4.8793	2.8481
#3	.16217	.21239	.01204	.06891	4.8603	2.4119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81650.**	**60220.**
Stddev	308.	102.
%RSD	.37722	.16999
#1	81995.	60112.
#2	81552.	60230.
#3	81403.	60316.

Approved: February 21, 2011

Sample Name: L1102045504 Acquired: 2/18/2011 19:05:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00619**	**49.853**	**.02770**	**.06653**	**1.8212**	**.00657**	**41.900**
Stddev	.00074	.578	.00277	.00134	.0179	.00011	.487
%RSD	11.911	1.1597	10.004	2.0115	.98429	1.6793	1.1621
#1	.00593	49.311	.02967	.06689	1.8024	.00646	41.374
#2	.00561	49.787	.02891	.06505	1.8231	.00657	41.992
#3	.00702	50.462	.02453	.06765	1.8381	.00668	42.334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00685**	**.04505**	**.07785**	**.72631**	**100.17**	**12.984**	**.08066**
Stddev	.00007	.00054	.00066	.01266	1.00	.154	.00436
%RSD	1.0798	1.2015	.85270	1.7430	.99912	1.1884	5.4053
#1	.00676	.04446	.07741	.71314	99.118	12.807	.08051
#2	.00689	.04515	.07753	.72739	100.29	13.064	.07637
#3	.00689	.04553	.07862	.73839	101.11	13.082	.08509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3658**	**4.8932**	**.00358**	**.75110**	**.06398**	F **29669.**	**2.3186**
Stddev	.0943	.0544	.00041	.00502	.00119	524.	.0348
%RSD	1.0070	1.1122	11.323	.66873	1.8654	1.7667	1.4996
#1	9.2835	4.8388	.00369	.75481	.06266	29166.	2.2856
#2	9.3452	4.8931	.00314	.75310	.06432	29629.	2.3151
#3	9.4687	4.9477	.00393	.74538	.06497	30212.	2.3549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045504 Acquired: 2/18/2011 19:05:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-76.159**	F **130.79**	F **-3004.6**	**.00216**	**.01086**	**54.690**	**.10837**
Stddev	18.156	2.05	46.2	.00319	.00111	1.123	.00199
%RSD	23.839	1.5666	1.5393	147.58	10.245	2.0531	1.8380
#1	-95.080	128.78	-2957.2	.00583	.01071	53.824	.10654
#2	-58.881	130.71	-3007.1	.00016	.00983	54.287	.10808
#3	-74.516	132.88	-3049.6	.00049	.01204	55.958	.11049
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33966**	**.34126**	**.00780**	**.08389**	**2.3197**	**5.6098**
Stddev	.00394	.00331	.00128	.00101	.0385	.0362
%RSD	1.1613	.97045	16.378	1.2064	1.6600	.64528
#1	.33559	.33762	.00926	.08290	2.2813	5.5985
#2	.33991	.34204	.00688	.08384	2.3195	5.5806
#3	.34347	.34410	.00726	.08492	2.3583	5.6503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81764.**	**59814.**
Stddev	124.	41.
%RSD	.15211	.06776
#1	81806.	59780.
#2	81862.	59859.
#3	81624.	59802.

Approved: February 21, 2011

Sample Name: L1102045505 Acquired: 2/18/2011 19:09:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00337**	**36.157**	**.02557**	**.05216**	**1.0132**	**.00508**	**28.806**
Stddev	.00026	.351	.00177	.00078	.0056	.00007	.300
%RSD	7.7460	.97122	6.9414	1.4930	.54857	1.3988	1.0408
#1	.00308	35.844	.02372	.05135	1.0083	.00500	28.524
#2	.00359	36.090	.02726	.05222	1.0120	.00510	28.772
#3	.00343	36.537	.02573	.05290	1.0192	.00514	29.121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.03819**	**.06816**	**.57469**	**91.127**	**10.726**	**.06960**
Stddev	.00007	.00046	.00062	.01000	.688	.098	.00215
%RSD	.92854	1.2144	.90696	1.7405	.75543	.90930	3.0959
#1	.00712	.03774	.06760	.56545	90.491	10.619	.07192
#2	.00723	.03817	.06805	.57331	91.032	10.747	.06766
#3	.00725	.03866	.06882	.58531	91.858	10.810	.06921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.0838**	**3.4164**	**.00283**	**.25610**	**.05606**	F **13749.**	**1.4001**
Stddev	.0852	.0310	.00012	.01079	.00061	167.	.0173
%RSD	1.0541	.90711	4.3017	4.2142	1.0918	1.2179	1.2383
#1	7.9943	3.3861	.00283	.24415	.05566	13582.	1.3809
#2	8.0934	3.4150	.00295	.25903	.05676	13748.	1.4050
#3	8.1639	3.4480	.00271	.26513	.05575	13917.	1.4145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045505 Acquired: 2/18/2011 19:09:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-71.440**	F **102.01**	F **-2520.8**	**.00299**	**.01088**	**43.411**	**.05325**
Stddev	8.928	1.56	42.3	.00052	.00505	.829	.00071
%RSD	12.498	1.5304	1.6766	17.327	46.453	1.9100	1.3352
#1	-81.749	100.46	-2482.7	.00246	.01343	42.490	.05295
#2	-66.345	102.00	-2513.3	.00349	.00506	43.645	.05274
#3	-66.225	103.58	-2566.3	.00301	.01416	44.099	.05406
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17790**	**.22569**	**.00676**	**.07347**	**1.7469**	**5.5987**
Stddev	.00174	.00132	.00090	.00073	.0246	.0613
%RSD	.97991	.58419	13.349	.99538	1.4100	1.0950
#1	.17645	.22526	.00724	.07270	1.7224	5.5644
#2	.17742	.22464	.00732	.07355	1.7468	5.5623
#3	.17984	.22717	.00572	.07416	1.7716	5.6695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80748.**	**60474.**
Stddev	530.	298.
%RSD	.65592	.49256
#1	81259.	60585.
#2	80782.	60701.
#3	80202.	60137.

Approved: February 21, 2011

Sample Name: L1102045506 Acquired: 2/18/2011 19:12:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03762**	**84.587**	**.52019**	**.11706**	**1.0226**	**.00697**	**135.81**
Stddev	.00031	1.392	.00222	.00115	.0083	.00006	.88
%RSD	.82712	1.6453	.42719	.98332	.80996	.79941	.64760
#1	.03729	84.849	.51780	.11582	1.0132	.00692	134.84
#2	.03791	83.082	.52057	.11728	1.0259	.00696	136.01
#3	.03765	85.829	.52219	.11810	1.0287	.00703	136.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10015**	**.15380**	**.11445**	**60.406**	**197.06**	**9.1650**	**.06763**
Stddev	.00069	.00070	.00046	.334	1.53	.0456	.00346
%RSD	.68420	.45643	.40329	.55365	.77419	.49786	5.1226
#1	.09952	.15311	.11434	60.058	195.35	9.1292	.06431
#2	.10006	.15377	.11495	60.434	197.58	9.2163	.07123
#3	.10088	.15451	.11405	60.725	198.26	9.1494	.06736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.428**	**27.636**	**.01005**	**.45135**	**.13295**	F **18106.**	**9.1197**
Stddev	.162	.186	.00010	.01583	.00061	88.	.0619
%RSD	.61225	.67235	.94974	3.5077	.45602	.48812	.67880
#1	26.245	27.432	.01016	.43904	.13246	18037.	9.0666
#2	26.485	27.680	.00997	.46921	.13363	18076.	9.1048
#3	26.553	27.796	.01003	.44579	.13277	18206.	9.1877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045506 Acquired: 2/18/2011 19:12:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-86.920**	F **830.21**	F **-24589.**	**.03528**	**.05881**	**86.630**	**.13605**
Stddev	17.949	3.26	76.	.00254	.00192	.274	.00101
%RSD	20.650	.39288	.30982	7.1908	3.2689	.31625	.74078
#1	-82.886	826.93	-24501.	.03238	.05985	86.360	.13549
#2	-106.54	830.24	-24624.	.03711	.05659	86.621	.13544
#3	-71.331	833.46	-24641.	.03634	.05998	86.908	.13721
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40588**	**.49052**	**.03645**	**.21934**	**6.2191**	**20.848**
Stddev	.00275	.00348	.00127	.00162	.0396	.378
%RSD	.67847	.70908	3.4715	.73732	.63736	1.8112
#1	.40280	.48768	.03711	.21900	6.1802	20.592
#2	.40675	.48948	.03499	.21791	6.2177	21.282
#3	.40809	.49440	.03724	.22109	6.2595	20.670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78735.**	**60066.**
Stddev	118.	157.
%RSD	.15008	.26218
#1	78868.	59911.
#2	78641.	60226.
#3	78695.	60059.

Approved: February 21, 2011

Sample Name: L1102045507 Acquired: 2/18/2011 19:16:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03033**	**93.992**	**.28554**	**.11409**	**1.2379**	**.00803**	**135.10**
Stddev	.00137	1.852	.00577	.00255	.0090	.00013	1.39
%RSD	4.5272	1.9701	2.0207	2.2336	.72862	1.5650	1.0320
#1	.02911	92.636	.28072	.11173	1.2286	.00792	133.62
#2	.03006	93.239	.28398	.11376	1.2386	.00800	135.30
#3	.03182	96.102	.29193	.11679	1.2466	.00817	136.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06059**	**.08883**	**.14132**	**25.558**	**154.97**	**12.517**	**.06920**
Stddev	.00070	.00096	.00319	.238	1.32	.118	.00295
%RSD	1.1556	1.0848	2.2557	.93159	.84902	.93921	4.2628
#1	.05984	.08784	.13823	25.330	153.65	12.451	.06602
#2	.06073	.08888	.14115	25.539	154.98	12.448	.07186
#3	.06122	.08977	.14460	25.805	156.28	12.653	.06971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.989**	**33.777**	**.00739**	**.61915**	**.12405**	F **16899.**	**8.5328**
Stddev	.315	.319	.00014	.00394	.00111	173.	.1058
%RSD	1.1249	.94446	1.8429	.63587	.89526	1.0208	1.2398
#1	27.664	33.440	.00755	.62369	.12301	16721.	8.4251
#2	28.010	33.816	.00732	.61702	.12393	16911.	8.5368
#3	28.293	34.074	.00731	.61673	.12522	17066.	8.6365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045507 Acquired: 2/18/2011 19:16:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-84.105**	F **799.09**	F **-23363.**	**.01920**	**.04000**	**53.118**	**.08992**
Stddev	10.799	7.35	169.	.00128	.00564	.272	.00051
%RSD	12.840	.92007	.72403	6.6781	14.104	.51154	.56418
#1	-88.819	792.03	-23199.	.01774	.04565	52.952	.08943
#2	-91.746	798.55	-23353.	.01973	.03437	53.432	.08989
#3	-71.750	806.70	-23537.	.02014	.03999	52.970	.09044
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.69428**	**.53839**	**.04079**	**.28905**	**5.8048**	**25.988**
Stddev	.00733	.00453	.00199	.00538	.0592	.410
%RSD	1.0555	.84125	4.8880	1.8609	1.0191	1.5767
#1	.68624	.53323	.03918	.28480	5.7474	25.664
#2	.69602	.54169	.04302	.28725	5.8015	25.851
#3	.70058	.54026	.04016	.29510	5.8656	26.448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77529.**	**58736.**
Stddev	143.	679.
%RSD	.18396	1.1565
#1	77388.	59354.
#2	77673.	58845.
#3	77526.	58009.

Approved: February 21, 2011

Sample Name: L1102045508 Acquired: 2/18/2011 19:20:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02762**	**74.352**	**.30899**	**.10132**	**1.4331**	**.00485**	**256.51**
Stddev	.00118	1.989	.00180	.00134	.0129	.00018	2.08
%RSD	4.2582	2.6749	.58289	1.3262	.90007	3.6764	.81244
#1	.02717	72.612	.30990	.10150	1.4197	.00465	254.17
#2	.02674	73.925	.30692	.09989	1.4341	.00489	257.21
#3	.02896	76.520	.31016	.10256	1.4455	.00500	258.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07571**	**.12067**	**.11147**	**36.548**	**154.58**	**10.528**	**.07222**
Stddev	.00084	.00134	.00373	.422	1.24	.093	.00168
%RSD	1.1093	1.1065	3.3482	1.1555	.80306	.87891	2.3274
#1	.07489	.11936	.10780	36.117	153.27	10.430	.07048
#2	.07569	.12062	.11136	36.566	154.73	10.540	.07233
#3	.07657	.12203	.11526	36.961	155.74	10.614	.07384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.381**	**21.718**	**.01162**	**.37226**	**.10616**	F **23618.**	**8.8077**
Stddev	.238	.147	.00017	.00581	.00163	281.	.0976
%RSD	.71314	.67566	1.4317	1.5615	1.5366	1.1894	1.1079
#1	33.108	21.558	.01154	.36625	.10451	23316.	8.7080
#2	33.489	21.747	.01151	.37267	.10620	23665.	8.8122
#3	33.545	21.847	.01181	.37786	.10777	23872.	8.9030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045508 Acquired: 2/18/2011 19:20:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-70.377**	F **735.49**	F **-16501.**	**.02660**	**.03826**	**63.655**	**.11987**
Stddev	9.246	10.22	256.	.00147	.00335	1.127	.00117
%RSD	13.137	1.3894	1.5527	5.5181	8.7678	1.7713	.97566
#1	-77.896	725.05	-16238.	.02657	.03544	62.693	.11880
#2	-73.183	735.94	-16516.	.02515	.04197	63.376	.11969
#3	-60.054	745.47	-16749.	.02808	.03736	64.896	.12112
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24383**	**.60124**	**.02815**	**.17703**	**5.3617**	**13.971**
Stddev	.00128	.00252	.00107	.00624	.0591	.199
%RSD	.52433	.41890	3.7872	3.5228	1.1030	1.4272
#1	.24239	.59851	.02693	.17167	5.3012	13.789
#2	.24424	.60174	.02859	.17555	5.3646	13.938
#3	.24485	.60347	.02892	.18388	5.4194	14.184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78654.**	**57198.**
Stddev	684.	320.
%RSD	.86984	.55883
#1	77966.	57533.
#2	78660.	57163.
#3	79334.	56896.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 19:23:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37883**	**9.4555**	**.40429**	**.46950**	**.99109**	**.04730**	**9.8925**
Stddev	.00452	.1356	.00356	.00755	.00343	.00062	.0077
%RSD	1.1923	1.4339	.88168	1.6080	.34585	1.3082	.07791
#1	.37376	9.3018	.40813	.46094	.98769	.04659	9.8882
#2	.38029	9.5064	.40109	.47233	.99454	.04756	9.9014
#3	.38244	9.5583	.40364	.47522	.99105	.04774	9.8879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05068**	**.20096**	**.47072**	**.49503**	**3.9872**	**49.142**	**.99239**
Stddev	.00008	.00075	.00667	.00187	.0118	.185	.00302
%RSD	.15517	.37121	1.4172	.37820	.29481	.37678	.30405
#1	.05076	.20171	.46319	.49548	3.9847	48.937	.98905
#2	.05066	.20022	.47311	.49298	3.9999	49.297	.99491
#3	.05061	.20095	.47587	.49664	3.9768	49.191	.99322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8695**	**.50020**	**.99184**	**49.518**	**.50387**	F **13.975**	**.51402**
Stddev	.0450	.00198	.00243	.207	.00169	5.036	.00188
%RSD	.45572	.39629	.24470	.41710	.33635	36.038	.36547
#1	9.8176	.49945	.99313	49.309	.50476	8.4655	.51608
#2	9.8944	.50245	.98904	49.722	.50191	15.119	.51239
#3	9.8966	.49871	.99335	49.523	.50493	18.342	.51360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 19:23:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-76.824**	**9.9595**	**9.7681**	**1.2168**	**.40438**	F **3.9552**	**1.0012**
Stddev	2.913	.0534	2.6914	.0028	.00337	.2140	.0022
%RSD	3.7915	.53655	27.553	.22804	.83273	5.4111	.22218
#1	-76.949	10.020	7.3061	1.2200	.40529	3.8499	1.0025
#2	-79.673	9.9413	9.3565	1.2152	.40065	3.8142	.99860
#3	-73.851	9.9175	12.642	1.2152	.40720	4.2014	1.0024
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000					5.0000	
Range	-10.000%					-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98658**	**1.0289**	**.50382**	**.93301**	**.98878**	F **1.6127**
Stddev	.00356	.0035	.00191	.01348	.00208	.1975
%RSD	.36117	.34275	.37835	1.4453	.21047	12.249
#1	.98266	1.0249	.50504	.91777	.99009	1.5099
#2	.98963	1.0314	.50162	.93784	.98638	1.4877
#3	.98744	1.0305	.50479	.94340	.98987	1.8404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80160.**	**59453.**
Stddev	248.	410.
%RSD	.30949	.68916
#1	79905.	59915.
#2	80401.	59135.
#3	80176.	59308.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 19:27:10 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**-.01612**	**.00175**	**-.00141**	**-.00128**	**.00006**	**.03665**
Stddev	.00103	.00310	.00093	.00138	.00025	.00001	.00822
%RSD	107.99	19.219	53.329	98.347	19.928	9.2878	22.421
#1	.00099	-.01676	.00069	-.00297	-.00145	.00006	.03580
#2	.00197	-.01275	.00213	-.00091	-.00098	.00005	.04526
#3	-.00009	-.01884	.00244	-.00034	-.00140	.00006	.02889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00014**	**-.00086**	**-.00033**	**.00891**	**-.08739**	**-.00031**
Stddev	.00016	.00020	.00060	.00053	.00115	.01385	.00041
%RSD	2101.9	141.45	69.685	162.83	12.896	15.849	131.11
#1	.00015	-.00010	-.00045	.00027	.00920	-.10285	-.00053
#2	-.00017	.00003	-.00059	-.00075	.00764	-.08319	.00016
#3	.00000	-.00037	-.00155	-.00050	.00987	-.07612	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00181**	**.00028**	**.00034**	**.05307**	**.00115**	F **-6.8236**	**.00207**
Stddev	.02949	.00032	.00017	.01915	.00072	6.1490	.00261
%RSD	1630.9	114.01	48.586	36.078	62.927	90.114	125.83
#1	-.03583	.00063	.00036	.07407	.00073	-3.2710	.00486
#2	.01652	.00000	.00017	.04853	.00074	-13.924	-.00032
#3	.01389	.00022	.00050	.03660	.00198	-3.2759	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 19:27:10 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-71.062**	F **-.10863**	F **3.8092**	**-.00401**	**.00129**	**-.10549**	**.00094**
Stddev	11.417	.01807	.9524	.00034	.00464	.25801	.00037
%RSD	16.066	16.639	25.003	8.4976	361.34	244.58	39.418
#1	-81.599	-.11702	4.0327	-.00388	.00002	-.39350	.00054
#2	-72.653	-.12098	4.6299	-.00440	.00643	-.02751	.00126
#3	-58.933	-.08788	2.7649	-.00376	-.00260	.10453	.00101
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00097**	**.00163**	**.00012**	**.00016**	F **.74002**
Stddev	.00033	.00091	.00046	.00017	.00010	.06833
%RSD	254.92	93.562	28.202	135.45	62.684	9.2336
#1	.00019	.00171	.00198	.00031	.00006	.76195
#2	-.00010	-.00004	.00111	.00006	.00017	.66342
#3	-.00047	.00124	.00181	.00000	.00026	.79469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80940.**	**60329.**
Stddev	159.	298.
%RSD	.19656	.49315
#1	81124.	60431.
#2	80846.	59994.
#3	80851.	60563.

Approved: February 21, 2011

Sample Name: L1102045509 Acquired: 2/18/2011 19:30:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02695**	**74.963**	**.30735**	**.11584**	**1.2467**	**.00440**	**229.25**
Stddev	.00061	.411	.00386	.00273	.0091	.00002	1.82
%RSD	2.2573	.54821	1.2563	2.3538	.73275	.51986	.79434
#1	.02697	74.506	.30322	.11359	1.2372	.00441	227.45
#2	.02634	75.082	.30796	.11887	1.2476	.00438	229.20
#3	.02756	75.302	.31087	.11507	1.2555	.00442	231.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06458**	**.10621**	**.10437**	**32.647**	**141.20**	**11.988**	**.07267**
Stddev	.00080	.00117	.00108	.390	.87	.072	.00147
%RSD	1.2401	1.0991	1.0372	1.1953	.61812	.59784	2.0249
#1	.06375	.10505	.10357	32.233	140.28	11.939	.07436
#2	.06465	.10618	.10394	32.699	141.31	11.955	.07171
#3	.06535	.10739	.10560	33.008	142.01	12.071	.07193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.863**	**20.901**	**.01012**	**.52137**	**.10209**	F **18803.**	**10.660**
Stddev	.181	.147	.00020	.01076	.00103	232.	.132
%RSD	.55050	.70388	1.9883	2.0646	1.0123	1.2318	1.2388
#1	32.693	20.755	.00990	.52592	.10152	18563.	10.521
#2	32.843	20.899	.01030	.52911	.10146	18822.	10.674
#3	33.053	21.049	.01015	.50907	.10328	19025.	10.784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045509 Acquired: 2/18/2011 19:30:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-95.541**	F **688.63**	F **-15865.**	**.03269**	**.04168**	**59.744**	**.14791**
Stddev	12.999	7.40	164.	.00184	.00063	.637	.00154
%RSD	13.606	1.0742	1.0330	5.6242	1.5129	1.0658	1.0405
#1	-108.36	680.88	-15693.	.03368	.04141	59.042	.14622
#2	-82.369	689.40	-15884.	.03056	.04240	59.906	.14827
#3	-95.894	695.62	-16019.	.03381	.04123	60.284	.14924
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.34885**	**.75519**	**.02819**	**.15815**	**5.4167**	**14.333**
Stddev	.00252	.00884	.00066	.00027	.0657	.432
%RSD	.72375	1.1701	2.3510	.17037	1.2120	3.0133
#1	.34643	.74629	.02743	.15796	5.3473	13.834
#2	.34865	.75533	.02859	.15802	5.4249	14.575
#3	.35147	.76396	.02856	.15845	5.4779	14.589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78451.**	**61079.**
Stddev	260.	274.
%RSD	.33201	.44799
#1	78748.	60766.
#2	78262.	61197.
#3	78343.	61273.

Approved: February 21, 2011

Sample Name: L1102045510 Acquired: 2/18/2011 19:34:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01423**	**60.638**	**.12550**	**.07722**	**.74991**	**.00429**	**379.15**
Stddev	.00016	.976	.00245	.00232	.00735	.00007	4.67
%RSD	1.1544	1.6092	1.9520	2.9982	.98016	1.6167	1.2323
#1	.01438	59.548	.12278	.07593	.74256	.00423	374.08
#2	.01405	60.935	.12619	.07585	.74992	.00428	380.09
#3	.01425	61.431	.12752	.07990	.75726	.00437	383.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02596**	**.04875**	**.07916**	**10.684**	**88.967**	**9.5763**	**.06837**
Stddev	.00045	.00070	.00139	.191	1.101	.1419	.00269
%RSD	1.7456	1.4332	1.7503	1.7864	1.2375	1.4815	3.9390
#1	.02563	.04810	.07792	10.501	87.851	9.4405	.07146
#2	.02578	.04866	.07891	10.668	88.997	9.5650	.06648
#3	.02648	.04949	.08065	10.882	90.052	9.7235	.06718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.579**	**15.549**	**.00647**	**.30799**	**.07563**	F **12009.**	**5.2038**
Stddev	.313	.190	.00031	.01046	.00147	183.	.0882
%RSD	1.2222	1.2228	4.8489	3.3973	1.9441	1.5211	1.6950
#1	25.236	15.341	.00656	.29654	.07432	11829.	5.1144
#2	25.650	15.592	.00612	.31706	.07534	12003.	5.2064
#3	25.849	15.714	.00673	.31036	.07722	12194.	5.2907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045510 Acquired: 2/18/2011 19:34:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-90.988**	F **626.46**	F **-7790.7**	**.01430**	**.02895**	**61.425**	**.05096**
Stddev	6.918	11.57	141.1	.00193	.00348	1.353	.00089
%RSD	7.6035	1.8471	1.8105	13.512	12.015	2.2034	1.7483
#1	-98.405	615.11	-7658.0	.01273	.02523	60.325	.05007
#2	-89.847	626.03	-7775.3	.01371	.02948	61.013	.05095
#3	-84.711	638.24	-7938.8	.01646	.03213	62.936	.05185
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32690**	**.33632**	**.02023**	**.12786**	**2.5424**	**15.216**
Stddev	.00335	.00331	.00090	.00256	.0458	.296
%RSD	1.0250	.98563	4.4244	1.9984	1.8016	1.9469
#1	.32320	.33251	.02118	.12516	2.4972	14.898
#2	.32779	.33794	.02010	.12816	2.5412	15.267
#3	.32972	.33852	.01941	.13024	2.5888	15.484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78393.**	**59941.**
Stddev	355.	360.
%RSD	.45222	.60050
#1	78775.	60315.
#2	78331.	59910.
#3	78074.	59597.

Approved: February 21, 2011

Sample Name: L1102045511 Acquired: 2/18/2011 19:37:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**63.091**	**.05420**	**.05271**	**.71904**	**.00422**	**83.571**
Stddev	.00122	1.134	.00123	.00056	.00846	.00004	.815
%RSD	30.848	1.7973	2.2699	1.0664	1.1770	.87199	.97478
#1	.00262	61.793	.05372	.05239	.71029	.00418	82.710
#2	.00427	63.589	.05559	.05336	.71967	.00424	83.675
#3	.00502	63.890	.05328	.05239	.72718	.00424	84.329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00713**	**.03933**	**.04403**	**2.4967**	**94.831**	**17.336**	**.07918**
Stddev	.00006	.00074	.00045	.0520	1.106	.238	.00079
%RSD	.78011	1.8915	1.0215	2.0845	1.1663	1.3744	.99395
#1	.00707	.03863	.04372	2.4453	93.681	17.080	.08007
#2	.00717	.03924	.04455	2.4954	94.926	17.376	.07887
#3	.00716	.04011	.04383	2.5493	95.887	17.552	.07859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.853**	**3.4150**	**.00746**	**.38395**	**.05525**	F **7317.5**	**.82971**
Stddev	.171	.0348	.00028	.02518	.00113	147.9	.01615
%RSD	.90896	1.0197	3.6902	6.5579	2.0501	2.0216	1.9459
#1	18.664	3.3770	.00724	.39219	.05421	7173.6	.81520
#2	18.899	3.4226	.00777	.35569	.05510	7309.6	.82683
#3	18.997	3.4453	.00738	.40399	.05646	7469.2	.84710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045511 Acquired: 2/18/2011 19:37:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-76.118**	F **305.78**	F **-7623.2**	**.00276**	**.00794**	**48.455**	**.01425**
Stddev	11.626	6.72	158.5	.00052	.00263	1.356	.00061
%RSD	15.274	2.1966	2.0789	18.847	33.090	2.7994	4.2980
#1	-87.480	298.71	-7453.7	.00222	.00922	47.255	.01413
#2	-64.245	306.57	-7648.4	.00326	.00967	48.183	.01370
#3	-76.627	312.07	-7767.6	.00279	.00491	49.926	.01491
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12480**	**.14080**	**.00636**	**.06571**	**.85146**	**25.266**
Stddev	.00124	.00222	.00235	.00078	.01713	.424
%RSD	.99114	1.5741	36.943	1.1822	2.0114	1.6765
#1	.12354	.13855	.00659	.06482	.83479	24.789
#2	.12486	.14087	.00390	.06601	.85058	25.410
#3	.12601	.14298	.00858	.06629	.86901	25.598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79706.**	**59406.**
Stddev	418.	398.
%RSD	.52457	.67035
#1	79444.	59842.
#2	80188.	59062.
#3	79486.	59314.

Approved: February 21, 2011

Sample Name: L1102045512 Acquired: 2/18/2011 19:41:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00286**	**61.694**	**.04305**	**.04843**	**.83936**	**.00521**	**51.622**
Stddev	.00072	.582	.00314	.00122	.00697	.00008	.501
%RSD	25.059	.94374	7.2878	2.5171	.83064	1.5463	.97024
#1	.00204	61.022	.04338	.04702	.83293	.00512	51.065
#2	.00336	62.045	.04602	.04923	.83838	.00526	51.766
#3	.00317	62.016	.03977	.04902	.84677	.00526	52.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**.04224**	**.03497**	**1.8752**	**104.19**	**12.656**	**.08338**
Stddev	.00005	.00047	.00056	.0237	.84	.106	.00276
%RSD	1.0042	1.1127	1.6019	1.2637	.80978	.83978	3.3054
#1	.00478	.04177	.03437	1.8508	103.38	12.534	.08075
#2	.00488	.04226	.03506	1.8766	104.14	12.707	.08314
#3	.00486	.04270	.03548	1.8981	105.06	12.727	.08624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.387**	**2.8747**	**.01064**	**.51159**	**.05862**	F **5462.8**	**.87788**
Stddev	.162	.0308	.00012	.01806	.00120	62.8	.00592
%RSD	.93452	1.0725	1.1722	3.5294	2.0532	1.1493	.67452
#1	17.215	2.8395	.01078	.49104	.05803	5400.2	.87392
#2	17.407	2.8876	.01054	.51882	.05782	5462.4	.87503
#3	17.538	2.8970	.01059	.52492	.06000	5525.8	.88468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045512 Acquired: 2/18/2011 19:41:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-86.257**	F **246.81**	F **-6846.2**	**-.00072**	**.00759**	**58.772**	**.01081**
Stddev	17.724	3.60	96.6	.00212	.00182	1.342	.00023
%RSD	20.548	1.4589	1.4105	296.52	23.944	2.2840	2.1340
#1	-71.192	243.29	-6754.7	-.00311	.00631	57.482	.01070
#2	-105.79	246.64	-6836.8	.00003	.00967	58.673	.01066
#3	-81.792	250.49	-6947.1	.00093	.00680	60.161	.01108
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13222**	**.05162**	**.00542**	**.04364**	**.71883**	**16.282**
Stddev	.00137	.00213	.00115	.00058	.00843	.082
%RSD	1.0398	4.1336	21.253	1.3219	1.1733	.50149
#1	.13071	.04975	.00613	.04306	.71035	16.277
#2	.13254	.05394	.00604	.04366	.71893	16.203
#3	.13340	.05117	.00409	.04421	.72722	16.366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81570.**	**60611.**
Stddev	237.	134.
%RSD	.29029	.22111
#1	81681.	60743.
#2	81730.	60475.
#3	81298.	60615.

Approved: February 21, 2011

Sample Name: L1102045513 Acquired: 2/18/2011 19:44:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00525**	**47.581**	**.04927**	**.05038**	**.72265**	**.00368**	**60.506**
Stddev	.00117	.803	.00226	.00144	.01071	.00006	.804
%RSD	22.314	1.6869	4.5877	2.8509	1.4827	1.5796	1.3294
#1	.00655	46.840	.05035	.04899	.71276	.00366	59.639
#2	.00426	47.469	.05079	.05027	.72115	.00363	60.651
#3	.00495	48.433	.04667	.05186	.73403	.00374	61.229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00966**	**.04054**	**.04144**	**2.8514**	**79.557**	**10.520**	**.07548**
Stddev	.00026	.00090	.00044	.0469	1.152	.098	.00215
%RSD	2.7370	2.2281	1.0558	1.6453	1.4480	.92845	2.8443
#1	.00938	.03965	.04100	2.8062	78.461	10.411	.07533
#2	.00970	.04051	.04146	2.8481	79.453	10.549	.07770
#3	.00990	.04145	.04187	2.8999	80.758	10.600	.07341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.842**	**3.6859**	**.00545**	**.34254**	**.05906**	F **12371.**	**2.0363**
Stddev	.322	.0475	.00012	.00743	.00053	204.	.0349
%RSD	1.4721	1.2879	2.2550	2.1704	.90412	1.6492	1.7136
#1	21.496	3.6354	.00543	.35042	.05854	12167.	2.0004
#2	21.899	3.6929	.00534	.34153	.05902	12370.	2.0383
#3	22.131	3.7296	.00558	.33565	.05961	12575.	2.0701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045513 Acquired: 2/18/2011 19:44:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-86.964**	F **268.95**	F **-7249.0**	**.00214**	**.01084**	**37.002**	**.03860**
Stddev	15.059	3.91	96.4	.00407	.00189	.977	.00080
%RSD	17.317	1.4524	1.3300	190.41	17.455	2.6402	2.0819
#1	-103.37	265.10	-7153.9	-.00183	.01190	35.887	.03781
#2	-83.748	268.84	-7246.5	.00193	.01197	37.709	.03857
#3	-73.773	272.91	-7346.7	.00630	.00866	37.410	.03942
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13089**	**.10422**	**.00646**	**.04764**	**1.1923**	**14.265**
Stddev	.00165	.00129	.00049	.00082	.0200	.248
%RSD	1.2584	1.2337	7.5418	1.7116	1.6757	1.7401
#1	.12905	.10273	.00646	.04686	1.1728	13.999
#2	.13138	.10493	.00694	.04758	1.1914	14.304
#3	.13223	.10498	.00597	.04849	1.2127	14.491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86943.**	**65608.**
Stddev	456.	599.
%RSD	.52429	.91268
#1	87280.	66075.
#2	87126.	65816.
#3	86425.	64933.

Approved: February 21, 2011

Sample Name: L1102045514 Acquired: 2/18/2011 19:48:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00710**	**53.982**	**.07980**	**.05686**	**1.2806**	**.00493**	**62.847**
Stddev	.00067	1.670	.00087	.00075	.0171	.00015	.749
%RSD	9.4744	3.0929	1.0932	1.3217	1.3339	2.9587	1.1914
#1	.00733	52.282	.07919	.05719	1.2629	.00477	62.046
#2	.00634	54.045	.07941	.05600	1.2818	.00496	62.965
#3	.00763	55.619	.08079	.05739	1.2970	.00505	63.530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01099**	**.05960**	**.05087**	**6.8735**	**115.23**	**10.898**	**.08770**
Stddev	.00030	.00130	.00184	.1335	1.44	.147	.00277
%RSD	2.7532	2.1887	3.6249	1.9425	1.2460	1.3456	3.1602
#1	.01065	.05823	.04892	6.7395	113.73	10.735	.08542
#2	.01108	.05976	.05111	6.8745	115.39	10.940	.09078
#3	.01123	.06082	.05258	7.0065	116.59	11.019	.08689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.659**	**4.4822**	**.00706**	**.50826**	**.07837**	F **10997.**	**9.3693**
Stddev	.304	.0520	.00007	.00915	.00162	217.	.1959
%RSD	1.2862	1.1613	1.0484	1.7994	2.0626	1.9722	2.0913
#1	23.331	4.4266	.00699	.51880	.07683	10776.	9.1723
#2	23.714	4.4903	.00706	.50355	.07821	11007.	9.3714
#3	23.932	4.5298	.00713	.50243	.08005	11209.	9.5641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045514 Acquired: 2/18/2011 19:48:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-84.161**	F **346.08**	F **-9884.9**	**.00668**	**.01350**	**58.599**	**.04918**
Stddev	20.049	5.89	164.9	.00144	.00247	.885	.00066
%RSD	23.823	1.7016	1.6678	21.543	18.293	1.5103	1.3414
#1	-107.10	340.11	-9715.1	.00576	.01303	57.798	.04847
#2	-69.959	346.27	-9895.1	.00833	.01617	58.451	.04927
#3	-75.427	351.88	-10044.	.00593	.01129	59.549	.04978
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15535**	**.05100**	**.00619**	**.04107**	**1.3274**	**10.366**
Stddev	.00144	.00058	.00033	.00148	.0257	.305
%RSD	.92953	1.1278	5.3613	3.6141	1.9347	2.9386
#1	.15373	.05112	.00599	.03973	1.3025	10.152
#2	.15585	.05038	.00658	.04080	1.3261	10.231
#3	.15648	.05151	.00602	.04266	1.3538	10.715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79505.**	**59129.**
Stddev	402.	985.
%RSD	.50543	1.6666
#1	79115.	60241.
#2	79918.	58777.
#3	79483.	58367.

Approved: February 21, 2011

Sample Name: L1102045515 Acquired: 2/18/2011 19:51:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356952-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00990**	**51.637**	**.08058**	**.06660**	**1.4936**	**.00511**	**85.795**
Stddev	.00031	.823	.00081	.00111	.0122	.00004	1.029
%RSD	3.1290	1.5934	1.0042	1.6632	.81792	.73822	1.1993
#1	.00988	51.002	.08004	.06714	1.4813	.00513	84.685
#2	.00961	51.342	.08151	.06732	1.4938	.00507	85.984
#3	.01023	52.567	.08019	.06532	1.5057	.00514	86.716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01341**	**.04464**	**.05121**	**6.3227**	**119.17**	**13.292**	**.08411**
Stddev	.00013	.00082	.00063	.1106	1.11	.097	.00092
%RSD	.98882	1.8257	1.2386	1.7495	.92910	.72922	1.0972
#1	.01327	.04373	.05110	6.2127	118.08	13.180	.08320
#2	.01342	.04488	.05064	6.3214	119.13	13.346	.08505
#3	.01354	.04531	.05190	6.4339	120.30	13.351	.08409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.058**	**3.6471**	**.00823**	**.50066**	**.05985**	F **10704.**	**3.5022**
Stddev	.291	.0423	.00023	.01404	.00176	222.	.0697
%RSD	1.0751	1.1596	2.8071	2.8047	2.9452	2.0749	1.9901
#1	26.743	3.6022	.00797	.50221	.05835	10481.	3.4341
#2	27.114	3.6528	.00839	.48591	.05942	10707.	3.4991
#3	27.317	3.6862	.00834	.51386	.06179	10925.	3.5734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045515 Acquired: 2/18/2011 19:51:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356952-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-66.713**	F **463.10**	F **-13168.**	**.00659**	**.01684**	**48.413**	**.07231**
Stddev	9.866	6.98	180.	.00173	.00299	.842	.00106
%RSD	14.789	1.5066	1.3698	26.245	17.750	1.7389	1.4642
#1	-74.562	456.33	-12991.	.00472	.01592	47.457	.07143
#2	-69.940	462.70	-13159.	.00692	.02018	48.741	.07203
#3	-55.637	470.27	-13352.	.00813	.01442	49.041	.07349
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29599**	**.08470**	**.00699**	**.05150**	**1.6976**	**12.949**
Stddev	.00344	.00294	.00129	.00019	.0318	.278
%RSD	1.1615	3.4681	18.502	.36558	1.8704	2.1505
#1	.29223	.08166	.00808	.05133	1.6664	12.684
#2	.29678	.08493	.00556	.05145	1.6964	13.239
#3	.29897	.08752	.00733	.05170	1.7299	12.924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80190.**	**60062.**
Stddev	193.	210.
%RSD	.24095	.34970
#1	80374.	60225.
#2	80207.	60137.
#3	79989.	59825.

Approved: February 21, 2011

Sample Name: L1102045515S Acquired: 2/18/2011 19:55:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356952-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04887**	**49.330**	**.13090**	**.06915**	**1.5418**	**.00537**	**93.683**
Stddev	.00017	.045	.00154	.00201	.0156	.00004	.924
%RSD	.34711	.09030	1.1780	2.9038	1.0084	.81100	.98619
#1	.04905	49.298	.13139	.06683	1.5254	.00538	92.734
#2	.04871	49.381	.13213	.07032	1.5438	.00541	93.736
#3	.04885	49.311	.12917	.07030	1.5563	.00532	94.580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02001**	**.04850**	**.05222**	**6.7257**	**128.24**	**12.613**	**.08413**
Stddev	.00030	.00034	.00061	.0739	1.31	.117	.00108
%RSD	1.4805	.69104	1.1701	1.0993	1.0205	.92916	1.2862
#1	.01971	.04812	.05153	6.6502	126.85	12.494	.08489
#2	.02002	.04863	.05269	6.7289	128.41	12.615	.08461
#3	.02030	.04875	.05243	6.7979	129.45	12.729	.08289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.612**	**4.0847**	**.00845**	**.51728**	**.06254**	F **11487.**	**3.7864**
Stddev	.295	.0373	.00019	.00872	.00113	143.	.0431
%RSD	1.0313	.91400	2.2890	1.6853	1.8143	1.2416	1.1388
#1	28.285	4.0449	.00866	.51412	.06142	11350.	3.7430
#2	28.692	4.0902	.00827	.52713	.06369	11478.	3.7869
#3	28.859	4.1190	.00841	.51058	.06253	11634.	3.8292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045515S Acquired: 2/18/2011 19:55:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356952-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-66.807**	F **480.61**	F **-13534.**	**.00478**	**.01600**	**60.826**	**.06126**
Stddev	22.760	6.50	195.	.00194	.00250	1.253	.00089
%RSD	34.068	1.3519	1.4386	40.641	15.652	2.0593	1.4447
#1	-67.544	474.25	-13341.	.00504	.01707	59.683	.06041
#2	-89.189	480.35	-13529.	.00272	.01314	60.629	.06119
#3	-43.687	487.24	-13730.	.00659	.01779	62.165	.06217
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31408**	**.07166**	**.00590**	**.05132**	**1.8037**	**11.910**
Stddev	.00375	.00175	.00092	.00036	.0193	.149
%RSD	1.1944	2.4401	15.623	.69339	1.0698	1.2479
#1	.31021	.06970	.00578	.05171	1.7851	11.750
#2	.31434	.07223	.00687	.05124	1.8023	11.937
#3	.31770	.07305	.00504	.05101	1.8236	12.043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79195.**	**58103.**
Stddev	276.	328.
%RSD	.34908	.56532
#1	78897.	58028.
#2	79243.	57819.
#3	79444.	58463.

Approved: February 21, 2011

Sample Name: L1102045515SD Acquired: 2/18/2011 19:58:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356952-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05071**	**52.286**	**.12943**	**.07168**	**1.5637**	**.00525**	**92.250**
Stddev	.00111	.662	.00220	.00089	.0113	.00009	.944
%RSD	2.1952	1.2653	1.7030	1.2401	.72475	1.7822	1.0234
#1	.04953	51.739	.12815	.07190	1.5508	.00519	91.211
#2	.05085	52.097	.12815	.07243	1.5681	.00521	92.484
#3	.05175	53.021	.13197	.07070	1.5721	.00536	93.055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01971**	**.04729**	**.05116**	**6.6405**	**125.88**	**13.779**	**.08991**
Stddev	.00027	.00057	.00076	.1118	.89	.096	.00474
%RSD	1.3628	1.2030	1.4893	1.6830	.70535	.69788	5.2686
#1	.01943	.04674	.05085	6.5333	124.90	13.671	.08467
#2	.01974	.04725	.05061	6.6318	126.13	13.810	.09390
#3	.01996	.04787	.05203	6.7563	126.62	13.856	.09115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.621**	**4.0624**	**.00830**	**.54870**	**.06454**	F **11486.**	**3.5322**
Stddev	.276	.0380	.00032	.00738	.00088	178.	.0590
%RSD	.96376	.93608	3.8937	1.3449	1.3664	1.5455	1.6712
#1	28.308	4.0208	.00853	.55671	.06377	11311.	3.4755
#2	28.726	4.0711	.00793	.54719	.06434	11482.	3.5277
#3	28.830	4.0954	.00843	.54219	.06550	11666.	3.5933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102045515SD Acquired: 2/18/2011 19:58:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356952-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-108.41**	F **493.15**	F **-14099.**	**.00562**	**.01577**	**68.796**	**.06134**
Stddev	7.86	8.24	237.	.00312	.00192	1.354	.00124
%RSD	7.2497	1.6710	1.6790	55.544	12.195	1.9682	2.0183
#1	-99.591	485.17	-13874.	.00856	.01396	67.330	.06024
#2	-114.67	492.66	-14077.	.00235	.01556	69.060	.06111
#3	-110.98	501.63	-14345.	.00595	.01779	69.999	.06268
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32201**	**.09234**	**.00651**	**.05224**	**1.7823**	**13.442**
Stddev	.00305	.00255	.00092	.00052	.0273	.050
%RSD	.94848	2.7571	14.084	1.0038	1.5290	.37325
#1	.31863	.09128	.00655	.05184	1.7555	13.498
#2	.32284	.09050	.00557	.05205	1.7813	13.402
#3	.32456	.09525	.00740	.05283	1.8100	13.426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84436.**	**63831.**
Stddev	134.	144.
%RSD	.15875	.22578
#1	84281.	63845.
#2	84507.	63680.
#3	84519.	63967.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 20:02:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.34847**	F **8.7194**	**.37704**	F **.43025**	**.91107**	F **.04306**	**9.1569**
Stddev	.00247	.0644	.00230	.00378	.00473	.00018	.0334
%RSD	.70909	.73799	.60982	.87871	.51941	.41731	.36467
#1	.34567	8.6494	.37970	.42625	.90586	.04287	9.1183
#2	.35034	8.7759	.37570	.43376	.91222	.04308	9.1776
#3	.34941	8.7329	.37574	.43074	.91511	.04323	9.1747
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000		.50000		.05000	
Range	-10.000%	-10.000%		-10.000%		-10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04749**	**.18726**	F **.42785**	**.46180**	**3.6548**	**45.350**	**.91284**
Stddev	.00010	.00020	.00201	.00169	.0243	.268	.00840
%RSD	.20819	.10761	.46925	.36631	.66360	.59133	.92031
#1	.04758	.18708	.42558	.46034	3.6311	45.069	.90386
#2	.04739	.18724	.42938	.46142	3.6536	45.377	.91415
#3	.04751	.18748	.42861	.46366	3.6796	45.603	.92051
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.50000				
Range			-10.000%				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.0905**	**.45942**	**.92356**	**45.364**	**.47150**	F **-3.5035**	**.48284**
Stddev	.0453	.00105	.00054	.281	.00103	10.319	.00088
%RSD	.49800	.22833	.05843	.61871	.21891	294.55	.18209
#1	9.0413	.45827	.92418	45.062	.47041	-11.774	.48185
#2	9.1304	.45967	.92332	45.412	.47164	8.0606	.48314
#3	9.0998	.46033	.92318	45.617	.47246	-6.7967	.48353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 20:02:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-99.891**	**9.3553**	F **11.151**	**1.1349**	**.38586**	F **3.5078**	**.93726**
Stddev	14.455	.0114	1.563	.0032	.00417	.2588	.00229
%RSD	14.471	.12166	14.013	.27765	1.0799	7.3788	.24430
#1	-113.87	9.3424	10.605	1.1362	.39059	3.3345	.93591
#2	-85.000	9.3598	9.9352	1.1372	.38422	3.3836	.93597
#3	-100.81	9.3637	12.914	1.1313	.38276	3.8053	.93990
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.91343**	**.96127**	**.47042**	F **.85311**	**.92415**	F **1.5649**
Stddev	.00371	.00346	.00289	.00678	.00323	.2445
%RSD	.40620	.35968	.61475	.79519	.34944	15.626
#1	.90922	.95791	.46914	.84529	.92179	1.6489
#2	.91624	.96481	.46839	.85671	.92282	1.2895
#3	.91482	.96110	.47373	.85734	.92783	1.7564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value				1.0000		1.0000
Range				-10.000%		10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83089.**	**64026.**
Stddev	1047.	119.
%RSD	1.2600	.18589
#1	83976.	64156.
#2	83358.	64000.
#3	81934.	63923.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 20:05:51 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**-.02453**	**.00228**	**-.00016**	**-.00139**	**.00006**	**.03209**
Stddev	.00044	.00185	.00155	.00115	.00020	.00004	.01200
%RSD	53.775	7.5571	68.178	720.21	14.173	69.167	37.397
#1	.00133	-.02580	.00054	.00055	-.00142	.00011	.04301
#2	.00066	-.02241	.00276	.00045	-.00157	.00005	.03401
#3	.00049	-.02539	.00353	-.00148	-.00118	.00003	.01924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00011**	**-.00089**	**-.00112**	**.00258**	**-.07708**	**-.00158**
Stddev	.00010	.00005	.00054	.00009	.00555	.02116	.00046
%RSD	124.95	46.020	60.534	7.7210	215.00	27.456	29.307
#1	.00004	.00011	-.00101	-.00122	.00430	-.09573	-.00146
#2	-.00015	.00015	-.00137	-.00106	.00707	-.05408	-.00209
#3	-.00014	.00006	-.00030	-.00108	-.00362	-.08143	-.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01525**	**-.00013**	**.00054**	**.03204**	**.00120**	F **-14.782**	**.00385**
Stddev	.01777	.00101	.00022	.01348	.00082	4.239	.00124
%RSD	116.55	756.48	41.567	42.088	68.145	28.674	32.262
#1	.00715	-.00128	.00077	.01647	.00207	-10.964	.00528
#2	.03563	.00058	.00032	.03954	.00045	-14.039	.00303
#3	.00297	.00030	.00054	.04011	.00109	-19.343	.00324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 20:05:51 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.579**	F **-.15519**	F **6.8853**	**-.00307**	**.00538**	**-.32080**	**.00047**
Stddev	15.395	.02076	1.1357	.00296	.00175	.16900	.00021
%RSD	21.212	13.375	16.494	96.458	32.493	52.681	45.325
#1	-90.355	-.14988	5.6513	-.00014	.00718	-.49877	.00031
#2	-63.763	-.17808	7.8867	-.00605	.00527	-.16249	.00038
#3	-63.617	-.13760	7.1178	-.00301	.00369	-.30113	.00071
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00002**	**.00171**	**-.00018**	**.00011**	F **.98974**
Stddev	.00002	.00029	.00040	.00049	.00012	.11113
%RSD	11.179	1654.9	23.606	274.57	107.93	11.228
#1	-.00015	-.00005	.00130	.00032	.00025	.94290
#2	-.00018	-.00023	.00171	-.00020	.00008	.90971
#3	-.00019	.00034	.00211	-.00065	.00001	1.1166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83060.**	**61068.**
Stddev	146.	293.
%RSD	.17550	.47955
#1	83227.	61283.
#2	82960.	60734.
#3	82993.	61185.

Approved: February 21, 2011

Sample Name: PBS 4B Acquired: 2/18/2011 20:09:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356831-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**-.02528**	**-.00050**	**-.00091**	**-.00164**	**.00005**	**.04548**
Stddev	.00061	.00319	.00125	.00094	.00036	.00001	.00918
%RSD	28.748	12.602	248.35	102.61	21.677	26.522	20.173
#1	.00169	-.02163	-.00123	-.00198	-.00128	.00006	.05568
#2	.00187	-.02671	-.00121	-.00023	-.00165	.00004	.03790
#3	.00283	-.02750	.00094	-.00053	-.00199	.00007	.04287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00015**	**-.00030**	**-.00110**	**.00450**	**-.05853**	**-.00229**
Stddev	.00014	.00022	.00026	.00023	.00109	.03375	.00045
%RSD	231.09	143.61	86.655	20.990	24.285	57.663	19.615
#1	-.00008	.00006	-.00010	-.00102	.00454	-.07619	-.00177
#2	.00007	-.00014	-.00021	-.00091	.00339	-.07979	-.00254
#3	.00019	-.00038	-.00059	-.00135	.00558	-.01961	-.00256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00324**	**.00005**	**.00023**	**.04589**	**.00256**	F **-23.507**	**.00412**
Stddev	.02676	.00090	.00033	.01224	.00041	2.435	.00223
%RSD	827.11	1658.3	140.03	26.677	16.029	10.359	54.087
#1	-.03298	.00107	.00059	.03245	.00287	-25.804	.00516
#2	.00440	-.00064	-.00004	.05640	.00209	-23.763	.00564
#3	.01887	-.00027	.00015	.04881	.00272	-20.954	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: PBS 4B Acquired: 2/18/2011 20:09:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356831-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-63.353**	F **-.03398**	**2.4743**	**-.00399**	**.00918**	**.91084**	**.00052**
Stddev	4.694	.08068	1.4585	.00197	.00342	.20966	.00022
%RSD	7.4088	237.39	58.946	49.338	37.294	23.018	41.998
#1	-68.489	.05789	3.2545	-.00185	.00554	.77153	.00040
#2	-62.282	-.09324	.79163	-.00439	.01234	.80903	.00038
#3	-59.286	-.06661	3.3766	-.00573	.00966	1.1520	.00077
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00073**	**.00026**	**.00024**	**.00198**	**.59951**
Stddev	.00015	.00124	.00098	.00041	.00009	.10609
%RSD	87.001	169.38	372.02	170.15	4.6877	17.696
#1	-.00003	-.00045	.00113	-.00017	.00205	.47878
#2	-.00016	.00203	.00046	.00066	.00201	.67785
#3	-.00033	.00063	-.00080	.00023	.00187	.64190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80529.**	**59776.**
Stddev	542.	75.
%RSD	.67254	.12614
#1	81115.	59823.
#2	80425.	59689.
#3	80046.	59817.

Approved: February 21, 2011

Sample Name: LCSS 4B Acquired: 2/18/2011 20:13:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356831-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18863**	**-.01480**	**.19037**	**-.00141**	**-.00115**	**.00004**	**.04388**
Stddev	.00182	.00154	.00160	.00116	.00042	.00001	.02260
%RSD	.96669	10.436	.84193	81.957	36.208	28.389	51.498
#1	.18692	-.01401	.19204	-.00097	-.00081	.00003	.06540
#2	.19055	-.01658	.19022	-.00054	-.00102	.00005	.04592
#3	.18841	-.01381	.18885	-.00272	-.00161	.00004	.02034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02485**	**-.00039**	**.00037**	**.24553**	**.00802**	**-.07662**	**-.00283**
Stddev	.00009	.00008	.00057	.00042	.00807	.09149	.00199
%RSD	.37627	21.039	152.70	.17134	100.60	119.41	70.401
#1	.02475	-.00048	-.00022	.24523	.00743	-.02376	-.00078
#2	.02485	-.00032	.00043	.24601	.00026	-.18227	-.00294
#3	.02494	-.00037	.00092	.24535	.01637	-.02384	-.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00510**	**.25276**	**-.00010**	**.02576**	**.00218**	F **-10.103**	**.26529**
Stddev	.00930	.00250	.00022	.00932	.00026	12.567	.00272
%RSD	182.19	.98963	209.49	36.176	12.139	124.39	1.0260
#1	.01557	.24988	-.00005	.03321	.00228	-23.395	.26253
#2	.00195	.25418	-.00035	.02876	.00238	-8.5003	.26537
#3	-.00220	.25424	.00008	.01531	.00188	1.5856	.26797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: LCSS 4B Acquired: 2/18/2011 20:13:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356831-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.040**	**.23241**	F **-4.0629**	**-.00071**	**.00690**	**1.2584**	**.00050**
Stddev	14.775	.01161	1.4022	.00081	.00383	.2726	.00009
%RSD	30.756	4.9951	34.512	113.17	55.490	21.662	18.828
#1	-65.034	.22790	-2.5110	.00014	.00661	1.0676	.00050
#2	-38.232	.22374	-5.2387	-.00147	.01086	1.1369	.00041
#3	-40.854	.24560	-4.4388	-.00081	.00322	1.5706	.00060
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00050**	**-.00064**	**.00014**	**.00243**	**.47527**
Stddev	.00020	.00011	.00067	.00020	.00005	.11993
%RSD	689.41	21.624	104.60	144.78	1.9734	25.234
#1	.00013	-.00043	-.00033	-.00004	.00243	.34731
#2	.00016	-.00044	-.00019	.00010	.00238	.58511
#3	-.00020	-.00062	-.00142	.00036	.00248	.49338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77891.**	**56380.**
Stddev	467.	271.
%RSD	.59892	.48029
#1	78379.	56661.
#2	77844.	56358.
#3	77450.	56121.

Approved: February 21, 2011

Sample Name: L1102036334 Acquired: 2/18/2011 20:16:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00612**	**58.041**	**.03794**	**.05916**	**.39287**	**.00150**	**434.06**
Stddev	.00041	.150	.00394	.00113	.00108	.00001	1.57
%RSD	6.6750	.25835	10.395	1.9027	.27514	.80175	.36233
#1	.00568	57.873	.03438	.05849	.39164	.00150	432.32
#2	.00648	58.162	.03727	.05854	.39369	.00151	434.48
#3	.00621	58.088	.04218	.06046	.39326	.00149	435.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**.01984**	**.06208**	**.16259**	**56.489**	**12.795**	**.06648**
Stddev	.00008	.00019	.00106	.00050	.182	.122	.00045
%RSD	3.0538	.93327	1.7037	.31038	.32286	.95396	.66963
#1	.00275	.02003	.06094	.16293	56.279	12.669	.06671
#2	.00285	.01966	.06228	.16282	56.588	12.913	.06676
#3	.00268	.01985	.06303	.16201	56.600	12.804	.06597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.482**	**2.0408**	**.00194**	**.40273**	**.04751**	F **6873.2**	**.19838**
Stddev	.037	.0070	.00020	.01240	.00008	17.6	.00227
%RSD	.21005	.34192	10.318	3.0786	.16065	.25541	1.1426
#1	17.440	2.0328	.00212	.41073	.04743	6873.2	.19617
#2	17.495	2.0440	.00172	.38845	.04751	6855.7	.19826
#3	17.510	2.0455	.00197	.40901	.04758	6890.8	.20070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036334 Acquired: 2/18/2011 20:16:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-64.095**	F **495.48**	F **-1996.5**	**.00017**	**.00547**	**52.759**	**.00510**
Stddev	14.918	.37	15.5	.00089	.00059	.064	.00029
%RSD	23.275	.07417	.77856	511.86	10.745	.12133	5.7807
#1	-57.864	495.60	-2002.3	.00020	.00538	52.702	.00518
#2	-53.302	495.07	-1978.9	-.00073	.00492	52.746	.00477
#3	-81.118	495.78	-2008.3	.00105	.00609	52.828	.00535
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16837**	**.66872**	**.00581**	**.10197**	**.29032**	**14.743**
Stddev	.00079	.00384	.00082	.00113	.00007	.216
%RSD	.46981	.57380	14.158	1.1109	.02399	1.4643
#1	.16746	.66810	.00523	.10066	.29034	14.571
#2	.16892	.67283	.00675	.10265	.29024	14.985
#3	.16873	.66523	.00545	.10258	.29037	14.673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75899.**	**57242.**
Stddev	69.	352.
%RSD	.09071	.61413
#1	75947.	57648.
#2	75820.	57052.
#3	75929.	57027.

Approved: February 21, 2011

Sample Name: L1102036334PS Acquired: 2/18/2011 20:20:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356972-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19807**	**59.549**	**.24056**	**1.0043**	**.88174**	**.02540**	**427.56**
Stddev	.00202	.639	.00079	.0110	.00225	.00022	.54
%RSD	1.0221	1.0737	.32644	1.0958	.25492	.88095	.12560
#1	.19919	60.090	.24135	1.0139	.87958	.02559	427.87
#2	.19573	58.844	.24057	.99231	.88407	.02516	427.87
#3	.19928	59.714	.23978	1.0068	.88157	.02547	426.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02860**	**.11746**	**.28367**	**.39550**	**57.307**	**37.770**	**.56728**
Stddev	.00020	.00010	.00174	.00141	.114	.056	.00353
%RSD	.69816	.08738	.61425	.35603	.19927	.14831	.62164
#1	.02837	.11743	.28514	.39706	57.238	37.715	.56329
#2	.02873	.11757	.28174	.39434	57.439	37.827	.56997
#3	.02870	.11737	.28412	.39508	57.244	37.769	.56858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.693**	**2.2385**	**.50539**	**26.230**	**.29041**	F **6696.8**	**.44008**
Stddev	.066	.0052	.00090	.098	.00044	21.4	.00278
%RSD	.30506	.23124	.17845	.37303	.15307	.31934	.63279
#1	21.769	2.2388	.50617	26.118	.29034	6675.3	.43722
#2	21.663	2.2435	.50440	26.271	.29089	6718.1	.44278
#3	21.647	2.2332	.50559	26.301	.29001	6696.9	.44023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036334PS Acquired: 2/18/2011 20:20:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356972-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-91.193**	F **481.01**	F **-1965.4**	**.60092**	**.21048**	F **356.71**	**.00557**
Stddev	7.648	.27	6.4	.00061	.00541	.48	.00040
%RSD	8.3870	.05692	.32600	.10160	2.5700	.13573	7.2551
#1	-88.084	480.73	-1970.4	.60121	.20811	357.12	.00584
#2	-99.906	481.03	-1958.2	.60022	.21666	356.84	.00511
#3	-85.589	481.27	-1967.5	.60134	.20665	356.18	.00578
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.66030**	**1.1576**	**.24730**	**.55943**	**.76543**	**15.282**
Stddev	.00287	.0025	.00094	.00534	.00035	.308
%RSD	.43486	.21944	.38183	.95475	.04514	2.0149
#1	.66000	1.1598	.24650	.56461	.76524	15.632
#2	.66331	1.1581	.24707	.55394	.76583	15.160
#3	.65759	1.1548	.24834	.55975	.76523	15.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78750.**	**60448.**
Stddev	496.	495.
%RSD	.62957	.81826
#1	79136.	59925.
#2	78923.	60908.
#3	78191.	60511.

Approved: February 21, 2011

Sample Name: L1102036334SDL Acquired: 2/18/2011 20:23:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356972-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00290**	**12.005**	**.00935**	**.01301**	**.07543**	**.00031**	**85.145**
Stddev	.00049	.099	.00255	.00029	.00070	.00002	.522
%RSD	16.730	.82584	27.245	2.2451	.93037	5.4990	.61277
#1	.00323	11.894	.00674	.01334	.07477	.00030	84.598
#2	.00234	12.085	.00948	.01279	.07617	.00030	85.637
#3	.00313	12.037	.01183	.01291	.07537	.00033	85.200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00412**	**.01180**	**.03097**	**11.104**	**2.3839**	**.01135**
Stddev	.00015	.00008	.00041	.00117	.087	.0171	.00394
%RSD	28.157	1.9622	3.4796	3.7872	.78504	.71892	34.690
#1	.00047	.00417	.01158	.03003	11.004	2.3790	.01093
#2	.00068	.00402	.01228	.03058	11.150	2.3697	.00763
#3	.00040	.00416	.01155	.03228	11.159	2.4029	.01547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.4785**	**.40397**	**.00050**	**.11129**	**.01003**	F **1304.2**	**.04086**
Stddev	.0326	.00231	.00015	.01689	.00034	4.6	.00155
%RSD	.93662	.57129	30.031	15.179	3.3404	.35452	3.7982
#1	3.4591	.40175	.00035	.10123	.00965	1309.0	.03926
#2	3.5162	.40636	.00050	.10185	.01018	1299.7	.04236
#3	3.4603	.40380	.00065	.13080	.01027	1303.8	.04097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036334SDL Acquired: 2/18/2011 20:23:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356972-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-69.114**	F **100.44**	F **-366.37**	**-.00319**	**.00309**	**9.6631**	**.00053**
Stddev	9.245	.07	3.03	.00203	.00390	.1396	.00032
%RSD	13.377	.06723	.82721	63.669	126.04	1.4443	60.001
#1	-65.844	100.52	-367.37	-.00549	-.00137	9.5130	.00089
#2	-79.551	100.41	-368.78	-.00246	.00585	9.7889	.00032
#3	-61.949	100.39	-362.97	-.00163	.00479	9.6874	.00037
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03264**	**.12855**	**.00367**	**.01979**	**.05908**	**2.8432**
Stddev	.00030	.00091	.00113	.00057	.00007	.1187
%RSD	.92818	.70932	30.790	2.8717	.11634	4.1735
#1	.03237	.12758	.00487	.01987	.05905	2.7201
#2	.03297	.12869	.00353	.02032	.05904	2.8526
#3	.03258	.12939	.00262	.01919	.05916	2.9568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80513.**	**59865.**
Stddev	88.	395.
%RSD	.10926	.66007
#1	80597.	60282.
#2	80519.	59496.
#3	80422.	59818.

Approved: February 21, 2011

Sample Name: L1102036334SDL Acquired: 2/18/2011 20:27:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356972-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	**2.5715**	**.00277**	**.00064**	**.01442**	**.00008**	**17.091**
Stddev	.00072	.0299	.00067	.00023	.00028	.00001	.010
%RSD	41.312	1.1607	24.153	36.032	1.9252	16.792	.05979
#1	.00093	2.5588	.00325	.00089	.01429	.00009	17.081
#2	.00201	2.6056	.00201	.00044	.01474	.00009	17.091
#3	.00230	2.5501	.00306	.00057	.01423	.00007	17.102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00094**	**.00215**	**.00590**	**2.2060**	**.43179**	**.00217**
Stddev	.00004	.00018	.00037	.00111	.0096	.01217	.00306
%RSD	47.863	19.470	17.003	18.829	.43340	2.8194	140.68
#1	-.00004	.00105	.00186	.00656	2.2015	.43145	.00403
#2	-.00012	.00104	.00256	.00462	2.2170	.41979	-.00135
#3	-.00009	.00073	.00203	.00653	2.1995	.44413	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.71910**	**.08171**	**-.00001**	**.02510**	**.00289**	**245.65**	**.01021**
Stddev	.01170	.00053	.00016	.00675	.00020	5.43	.00150
%RSD	1.6266	.65218	1603.1	26.874	7.0683	2.2122	14.692
#1	.70638	.08122	-.00019	.03277	.00278	251.06	.00874
#2	.72939	.08165	.00005	.02241	.00277	240.19	.01015
#3	.72153	.08228	.00011	.02011	.00313	245.71	.01174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102036334SDL Acquired: 2/18/2011 20:27:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356972-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.528**	F **20.449**	F **-64.338**	**-.00267**	**.00348**	**1.0917**	**-.00007**
Stddev	2.160	.119	2.494	.00052	.00209	.0323	.00015
%RSD	5.2019	.58178	3.8766	19.322	60.157	2.9571	217.10
#1	-40.063	20.395	-66.840	-.00318	.00152	1.0657	-.00013
#2	-40.512	20.367	-61.852	-.00268	.00323	1.0815	-.00017
#3	-44.009	20.586	-64.322	-.00215	.00569	1.1278	.00010
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00635**	**.02591**	**.00237**	**.00403**	**.01283**	**.92068**
Stddev	.00013	.00075	.00108	.00015	.00005	.15552
%RSD	2.0941	2.9030	45.493	3.6510	.40035	16.892
#1	.00643	.02518	.00122	.00387	.01288	.89221
#2	.00642	.02586	.00252	.00417	.01277	.78136
#3	.00619	.02668	.00336	.00404	.01283	1.0885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81407.**	**57433.**
Stddev	316.	465.
%RSD	.38813	.81033
#1	81053.	57914.
#2	81661.	56985.
#3	81506.	57401.

Approved: February 21, 2011

Sample Name: L1102036335 Acquired: 2/18/2011 20:31:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00375**	**50.300**	**.04176**	**.04774**	**.57421**	**.00241**	**257.78**
Stddev	.00072	.285	.00300	.00152	.00226	.00004	.93
%RSD	19.104	.56662	7.1731	3.1813	.39311	1.5728	.36099
#1	.00317	50.147	.03955	.04713	.57160	.00237	256.79
#2	.00352	50.629	.04056	.04662	.57552	.00243	257.91
#3	.00455	50.124	.04517	.04947	.57551	.00243	258.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.02170**	**.05670**	**.31368**	**55.861**	**14.247**	**.05511**
Stddev	.00008	.00008	.00030	.00270	.183	.052	.00226
%RSD	1.8405	.35979	.52993	.86042	.32695	.36194	4.0978
#1	.00408	.02166	.05697	.31136	55.654	14.189	.05265
#2	.00421	.02165	.05675	.31303	55.930	14.268	.05557
#3	.00408	.02179	.05638	.31664	55.999	14.285	.05710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.034**	**2.5420**	**.00189**	**.63518**	**.04776**	F **19828.**	**.25941**
Stddev	.115	.0107	.00025	.00273	.00058	85.	.00170
%RSD	.60428	.42191	13.005	.43044	1.2214	.42867	.65408
#1	18.908	2.5303	.00218	.63247	.04711	19788.	.26137
#2	19.058	2.5442	.00173	.63514	.04791	19771.	.25847
#3	19.135	2.5515	.00177	.63794	.04825	19926.	.25839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036335 Acquired: 2/18/2011 20:31:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-93.345**	F **325.63**	F **-2237.6**	**-.00098**	**.00907**	**54.666**	**.00525**
Stddev	2.765	1.40	20.3	.00269	.00268	.125	.00052
%RSD	2.9624	.42891	.90577	274.19	29.521	.22949	9.8920
#1	-96.193	324.61	-2216.8	.00208	.00891	54.791	.00578
#2	-90.670	325.05	-2238.6	-.00204	.00648	54.540	.00475
#3	-93.171	327.22	-2257.3	-.00299	.01183	54.667	.00522
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22435**	**.28911**	**.00720**	**.07847**	**.53063**	**23.525**
Stddev	.00069	.00174	.00112	.00030	.00260	.406
%RSD	.30740	.60080	15.549	.38185	.49067	1.7265
#1	.22384	.28733	.00672	.07823	.52941	23.130
#2	.22409	.28922	.00848	.07881	.52887	23.941
#3	.22514	.29080	.00640	.07838	.53362	23.504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81000.**	**61398.**
Stddev	143.	293.
%RSD	.17648	.47696
#1	80902.	61598.
#2	81164.	61062.
#3	80934.	61535.

Approved: February 21, 2011

Sample Name: L1102036339 Acquired: 2/18/2011 20:34:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**59.759**	**.03947**	**.06211**	**.64774**	**.00217**	**198.59**
Stddev	.00073	.682	.00103	.00110	.00071	.00004	.55
%RSD	13.961	1.1416	2.6198	1.7634	.11007	1.9868	.27635
#1	.00603	60.536	.03829	.06335	.64856	.00222	198.21
#2	.00467	59.259	.03986	.06127	.64726	.00217	198.33
#3	.00490	59.483	.04025	.06172	.64739	.00213	199.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00506**	**.02220**	**.07177**	**.42027**	**62.268**	**17.202**	**.05567**
Stddev	.00010	.00013	.00121	.00058	.088	.094	.00191
%RSD	1.9750	.56799	1.6890	.13796	.14204	.54490	3.4330
#1	.00515	.02207	.07315	.42084	62.166	17.115	.05768
#2	.00508	.02222	.07127	.42029	62.309	17.191	.05546
#3	.00495	.02232	.07088	.41968	62.328	17.301	.05388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.472**	**2.7979**	**.00279**	**.25396**	**.05187**	F **12878.**	**.85527**
Stddev	.018	.0101	.00047	.02355	.00096	26.	.00318
%RSD	.09491	.36199	17.002	9.2735	1.8467	.20183	.37136
#1	19.493	2.7882	.00267	.23880	.05208	12850.	.85308
#2	19.463	2.7970	.00238	.28109	.05271	12881.	.85382
#3	19.459	2.8084	.00331	.24198	.05083	12901.	.85891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036339 Acquired: 2/18/2011 20:34:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-78.213**	F **281.72**	F **-2895.3**	**.00323**	**.00764**	**48.998**	**.00774**
Stddev	4.660	.17	5.4	.00192	.00234	.353	.00030
%RSD	5.9586	.05917	.18764	59.560	30.620	.72066	3.8519
#1	-73.359	281.55	-2901.1	.00348	.01027	48.733	.00769
#2	-78.627	281.72	-2894.4	.00501	.00688	48.862	.00748
#3	-82.653	281.88	-2890.3	.00119	.00578	49.399	.00806
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30968**	**.46719**	**.00793**	**.08825**	**.96183**	**18.226**
Stddev	.00179	.00045	.00184	.00118	.00060	.362
%RSD	.57928	.09673	23.177	1.3367	.06202	1.9872
#1	.30778	.46737	.00879	.08959	.96122	18.544
#2	.30993	.46668	.00919	.08737	.96187	17.832
#3	.31134	.46753	.00582	.08777	.96241	18.302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81068.**	**61572.**
Stddev	86.	611.
%RSD	.10619	.99186
#1	81113.	60871.
#2	81124.	61987.
#3	80969.	61859.

Approved: February 21, 2011

Sample Name: L1102036340 Acquired: 2/18/2011 20:38:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**53.748**	**.03729**	**.04652**	**.38708**	**.00204**	**278.26**
Stddev	.00038	.734	.00220	.00194	.00131	.00000	.72
%RSD	6.4340	1.3659	5.9023	4.1611	.33781	.16386	.26046
#1	.00545	54.563	.03976	.04699	.38559	.00204	277.78
#2	.00615	53.139	.03658	.04440	.38765	.00204	277.91
#3	.00605	53.543	.03553	.04818	.38801	.00204	279.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00407**	**.02042**	**.06713**	**.24310**	**57.535**	**12.586**	**.06069**
Stddev	.00017	.00025	.00115	.00100	.174	.076	.00072
%RSD	4.0844	1.2257	1.7130	.41114	.30232	.60438	1.1921
#1	.00419	.02021	.06837	.24268	57.395	12.584	.06139
#2	.00388	.02036	.06610	.24239	57.481	12.512	.05995
#3	.00414	.02070	.06691	.24425	57.730	12.664	.06073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.516**	**3.2111**	**.00155**	**.57551**	**.05418**	F **4222.0**	**.38947**
Stddev	.023	.0054	.00025	.01461	.00102	10.9	.00185
%RSD	.11235	.16832	16.440	2.5379	1.8811	.25811	.47596
#1	20.524	3.2084	.00176	.56021	.05305	4227.5	.39006
#2	20.490	3.2076	.00161	.58931	.05503	4209.4	.38740
#3	20.535	3.2173	.00127	.57700	.05447	4229.0	.39097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036340 Acquired: 2/18/2011 20:38:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-88.186**	F **338.08**	F **-2037.4**	**.00073**	**.00515**	**37.436**	**.00470**
Stddev	4.989	.90	9.8	.00251	.00291	.359	.00044
%RSD	5.6576	.26628	.48065	341.96	56.527	.95944	9.3944
#1	-92.522	337.56	-2033.4	-.00210	.00259	37.851	.00432
#2	-89.305	337.56	-2030.3	.00164	.00454	37.215	.00518
#3	-82.733	339.12	-2048.6	.00267	.00831	37.243	.00459
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14937**	**.47728**	**.00764**	**.09167**	**.48761**	**22.172**
Stddev	.00032	.00175	.00154	.00128	.00117	.277
%RSD	.21506	.36687	20.105	1.3976	.23959	1.2493
#1	.14919	.47798	.00665	.09315	.48717	22.298
#2	.14917	.47529	.00941	.09086	.48672	21.854
#3	.14974	.47857	.00686	.09101	.48893	22.364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80070.**	**59928.**
Stddev	85.	810.
%RSD	.10593	1.3517
#1	80158.	59039.
#2	79989.	60624.
#3	80064.	60121.

Approved: February 21, 2011

Sample Name: L1102036341 Acquired: 2/18/2011 20:41:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**46.840**	**.04394**	**.04045**	**.44739**	**.00242**	**525.84**
Stddev	.00037	.426	.00163	.00038	.00275	.00002	2.01
%RSD	9.5836	.91008	3.7202	.93661	.61407	.94391	.38148
#1	.00364	46.409	.04206	.04023	.44422	.00240	523.55
#2	.00430	46.850	.04470	.04022	.44916	.00244	527.25
#3	.00368	47.262	.04506	.04088	.44878	.00243	526.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**.01899**	**.05443**	**.21767**	**51.083**	**9.9397**	**.06724**
Stddev	.00025	.00026	.00104	.00092	.286	.0644	.00237
%RSD	8.5253	1.3500	1.9140	.42108	.56018	.64786	3.5291
#1	.00290	.01882	.05324	.21702	50.753	9.8656	.06998
#2	.00271	.01886	.05489	.21727	51.263	9.9824	.06585
#3	.00320	.01929	.05517	.21872	51.233	9.9711	.06589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.616**	**2.0101**	**.00140**	**.33806**	**.04489**	F **4520.7**	**.17735**
Stddev	.074	.0070	.00025	.00730	.00032	19.4	.00054
%RSD	.42152	.35095	17.664	2.1592	.72349	.43025	.30301
#1	17.532	2.0027	.00143	.33751	.04509	4504.2	.17752
#2	17.641	2.0167	.00114	.33105	.04507	4515.8	.17675
#3	17.674	2.0111	.00164	.34562	.04452	4542.1	.17779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036341 Acquired: 2/18/2011 20:41:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.145**	F **592.71**	F **-1938.3**	**.00114**	**.00627**	**53.822**	**.00399**
Stddev	12.273	3.29	2.9	.00208	.00508	.420	.00027
%RSD	17.012	.55582	.15097	182.71	81.006	.78085	6.8633
#1	-85.196	589.20	-1937.9	.00349	.00192	53.346	.00417
#2	-60.837	593.20	-1935.6	-.00048	.00504	53.982	.00367
#3	-70.401	595.74	-1941.4	.00042	.01185	54.140	.00412
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19604**	**.22247**	**.00589**	**.08929**	**.30534**	**16.778**
Stddev	.00060	.00030	.00282	.00040	.00178	.184
%RSD	.30660	.13638	47.915	.45145	.58154	1.0954
#1	.19577	.22212	.00623	.08897	.30343	16.949
#2	.19673	.22266	.00292	.08916	.30565	16.802
#3	.19562	.22262	.00854	.08974	.30693	16.584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74298.**	**56920.**
Stddev	475.	429.
%RSD	.63884	.75331
#1	74775.	57407.
#2	74293.	56752.
#3	73825.	56601.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 20:45:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37897**	**9.5698**	**.38934**	**.46660**	**.95379**	**.04796**	**9.5501**
Stddev	.00030	.0074	.00179	.00039	.00576	.00008	.0418
%RSD	.07924	.07741	.45870	.08354	.60407	.15862	.43750
#1	.37871	9.5724	.38729	.46690	.94751	.04794	9.5142
#2	.37930	9.5615	.39016	.46674	.95505	.04791	9.5402
#3	.37891	9.5756	.39057	.46616	.95882	.04805	9.5960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04955**	**.19661**	**.47702**	**.47924**	**3.8136**	**47.605**	**.95806**
Stddev	.00003	.00005	.00055	.00182	.0222	.153	.00651
%RSD	.05091	.02360	.11608	.37883	.58336	.32198	.67908
#1	.04952	.19666	.47643	.47733	3.7944	47.454	.95163
#2	.04954	.19659	.47712	.47947	3.8084	47.600	.95792
#3	.04957	.19658	.47752	.48094	3.8380	47.761	.96464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6090**	**.47855**	**.95943**	**48.169**	**.48929**	F **8.0092**	**.50614**
Stddev	.0355	.00261	.00185	.297	.00246	2.2412	.00100
%RSD	.36904	.54611	.19277	.61725	.50283	27.982	.19842
#1	9.5700	.47657	.95757	47.837	.48647	5.6394	.50575
#2	9.6177	.47757	.95946	48.256	.49048	8.2937	.50538
#3	9.6393	.48151	.96126	48.412	.49094	10.095	.50728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 20:45:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-45.253**	**9.7254**	F **14.407**	**1.1732**	**.38895**	F **4.0831**	**.97473**
Stddev	13.811	.0631	1.373	.0035	.00334	.3094	.00353
%RSD	30.520	.64860	9.5273	.29715	.85936	7.5778	.36209
#1	-45.419	9.6584	15.977	1.1695	.38582	3.9948	.97086
#2	-31.360	9.7837	13.435	1.1734	.39247	4.4270	.97557
#3	-58.980	9.7340	13.808	1.1765	.38857	3.8274	.97777
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93542**	**.99697**	**.49098**	**.93035**	**.96766**	F **1.3512**
Stddev	.00354	.00519	.00226	.00067	.00212	.1143
%RSD	.37828	.52080	.45946	.07199	.21896	8.4620
#1	.93231	.99433	.49261	.93002	.96527	1.2732
#2	.93469	.99362	.49194	.93112	.96842	1.2979
#3	.93927	1.0030	.48841	.92992	.96930	1.4825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77161.**	**55188.**
Stddev	110.	78.
%RSD	.14319	.14088
#1	77279.	55249.
#2	77143.	55215.
#3	77060.	55101.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 20:48:38 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**-.01163**	**.00184**	**.00020**	**-.00020**	**.00004**	**.00473**
Stddev	.00031	.00178	.00160	.00149	.00040	.00002	.00419
%RSD	41.332	15.338	87.286	735.84	196.13	49.310	88.588
#1	.00077	-.01081	.00359	-.00140	-.00054	.00003	.00580
#2	.00044	-.01041	.00044	.00155	.00024	.00007	.00011
#3	.00106	-.01368	.00148	.00046	-.00031	.00003	.00827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00005**	**-.00050**	**-.00083**	**-.00140**	**-.06632**	**-.00355**
Stddev	.00011	.00013	.00091	.00050	.00299	.04542	.00191
%RSD	330.16	272.03	183.01	59.891	213.19	68.484	53.787
#1	.00002	.00010	-.00094	-.00140	-.00448	-.04094	-.00371
#2	.00004	-.00010	.00055	-.00054	-.00123	-.03927	-.00538
#3	-.00016	.00014	-.00111	-.00055	.00150	-.11876	-.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01390**	**-.00039**	**.00030**	**.04370**	**.00074**	F **4.1538**	**.00104**
Stddev	.01123	.00080	.00016	.01719	.00050	2.6515	.00053
%RSD	80.827	205.12	53.410	39.334	68.287	63.833	51.282
#1	.00291	-.00113	.00031	.06013	.00032	1.3596	.00051
#2	.01342	-.00049	.00013	.02584	.00059	6.6347	.00157
#3	.02536	.00045	.00045	.04513	.00130	4.4671	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 20:48:38 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.034**	F **-.15229**	F **4.9919**	**-.00099**	**.00527**	**-.08106**	**.00042**
Stddev	14.717	.01354	2.4603	.00345	.00428	.12820	.00019
%RSD	44.552	8.8907	49.286	349.32	81.263	158.16	45.182
#1	-25.544	-.16769	6.6349	.00230	.00442	-.22858	.00052
#2	-23.569	-.14226	6.1775	-.00458	.00991	-.01782	.00020
#3	-49.990	-.14693	2.1632	-.00069	.00147	.00323	.00054
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00062**	**.00131**	**.00033**	**.00015**	F **.53306**
Stddev	.00006	.00172	.00201	.00030	.00015	.10127
%RSD	115.95	278.44	153.09	89.086	101.07	18.998
#1	.00000	.00102	.00344	.00021	.00030	.44997
#2	-.00004	-.00127	.00103	.00012	-.00001	.64586
#3	-.00011	.00209	-.00054	.00067	.00017	.50334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78418.**	**55961.**
Stddev	305.	477.
%RSD	.38913	.85204
#1	78633.	55999.
#2	78069.	55467.
#3	78553.	56418.

Approved: February 21, 2011

Sample Name: L1102036342 Acquired: 2/18/2011 20:52:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00404**	**58.466**	**.06503**	**.04934**	**.61468**	**.00283**	**235.81**
Stddev	.00015	.699	.00135	.00158	.00099	.00002	.65
%RSD	3.7325	1.1947	2.0821	3.1981	.16177	.55626	.27455
#1	.00390	57.997	.06407	.05029	.61515	.00283	235.08
#2	.00420	58.131	.06444	.04752	.61354	.00281	236.06
#3	.00403	59.269	.06658	.05021	.61536	.00284	236.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00454**	**.02372**	**.06166**	**.27312**	**62.195**	**15.619**	**.06398**
Stddev	.00003	.00027	.00068	.00180	.121	.034	.00158
%RSD	.67037	1.1224	1.0964	.66048	.19525	.21655	2.4635
#1	.00451	.02344	.06161	.27142	62.125	15.619	.06441
#2	.00453	.02374	.06101	.27292	62.125	15.653	.06530
#3	.00457	.02397	.06236	.27501	62.335	15.585	.06224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.009**	**2.3417**	**.00190**	**.44273**	**.05155**	F **6377.8**	**.24730**
Stddev	.084	.0043	.00025	.02014	.00007	20.3	.00215
%RSD	.40011	.18425	13.404	4.5483	.13606	.31783	.86827
#1	20.931	2.3368	.00213	.46519	.05157	6360.2	.24514
#2	20.998	2.3449	.00195	.43672	.05147	6373.3	.24734
#3	21.098	2.3435	.00163	.42629	.05161	6400.0	.24944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036342 Acquired: 2/18/2011 20:52:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-69.528**	F **315.20**	F **-2627.6**	**.00308**	**.00121**	**50.924**	**.00637**
Stddev	16.134	1.94	15.1	.00261	.00346	.292	.00035
%RSD	23.205	.61469	.57553	84.913	285.42	.57380	5.4443
#1	-87.607	313.20	-2610.3	.00539	-.00103	51.193	.00617
#2	-64.383	315.32	-2633.7	.00360	-.00053	50.613	.00677
#3	-56.594	317.07	-2638.7	.00024	.00519	50.967	.00616
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22184**	**.29325**	**.00598**	**.08430**	**.47645**	**24.693**
Stddev	.00083	.00245	.00147	.00109	.00230	.459
%RSD	.37259	.83477	24.657	1.2934	.48214	1.8578
#1	.22101	.29047	.00539	.08402	.47411	24.674
#2	.22267	.29421	.00490	.08337	.47655	24.244
#3	.22185	.29508	.00766	.08550	.47870	25.161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76582.**	**58013.**
Stddev	348.	631.
%RSD	.45404	1.0872
#1	76894.	58276.
#2	76645.	58470.
#3	76207.	57293.

Approved: February 21, 2011

Sample Name: L1102036343 Acquired: 2/18/2011 20:55:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00462**	**63.540**	**.04024**	**.04589**	**.58293**	**.00272**	**287.80**
Stddev	.00067	.277	.00088	.00067	.00295	.00003	.99
%RSD	14.563	.43580	2.1756	1.4496	.50586	1.1961	.34276
#1	.00515	63.413	.03929	.04631	.57957	.00275	286.72
#2	.00485	63.858	.04039	.04512	.58410	.00268	288.04
#3	.00386	63.349	.04102	.04623	.58511	.00272	288.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00378**	**.02532**	**.06985**	**.23979**	**63.651**	**14.770**	**.06806**
Stddev	.00010	.00018	.00021	.00158	.367	.117	.00262
%RSD	2.7653	.70213	.30543	.65839	.57633	.79266	3.8503
#1	.00377	.02519	.06967	.23954	63.242	14.660	.06550
#2	.00389	.02552	.06979	.23834	63.763	14.755	.06793
#3	.00368	.02524	.07009	.24147	63.950	14.893	.07074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.262**	**2.7994**	**.00103**	**.42381**	**.05680**	F **5277.5**	**.24216**
Stddev	.078	.0078	.00019	.01107	.00005	3.3	.00266
%RSD	.33344	.27972	18.588	2.6117	.08478	.06298	1.0985
#1	23.175	2.7903	.00107	.41470	.05685	5274.5	.24169
#2	23.324	2.8038	.00121	.43613	.05677	5281.1	.23976
#3	23.286	2.8040	.00083	.42059	.05678	5276.8	.24502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036343 Acquired: 2/18/2011 20:55:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.910**	F **336.13**	F **-1436.2**	**-.00065**	**.00351**	**54.464**	**.00571**
Stddev	15.238	1.19	5.4	.00347	.00188	.172	.00048
%RSD	25.867	.35271	.37801	531.42	53.494	.31542	8.3877
#1	-41.890	335.06	-1432.0	.00233	.00250	54.421	.00516
#2	-71.285	335.91	-1434.2	-.00446	.00235	54.318	.00594
#3	-63.557	337.41	-1442.4	.00017	.00567	54.653	.00604
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21621**	**.44012**	**.00782**	**.09447**	**.41833**	**26.903**
Stddev	.00063	.00069	.00130	.00033	.00171	.074
%RSD	.28926	.15690	16.574	.35307	.40916	.27561
#1	.21550	.44091	.00656	.09431	.41751	26.818
#2	.21643	.43982	.00915	.09485	.41718	26.937
#3	.21669	.43963	.00774	.09424	.42030	26.955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75343.**	**56483.**
Stddev	323.	86.
%RSD	.42826	.15288
#1	75155.	56558.
#2	75716.	56389.
#3	75159.	56503.

Approved: February 21, 2011

Sample Name: L1102036344 Acquired: 2/18/2011 20:59:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	**75.913**	**.03462**	**.07676**	**.67977**	**.00283**	**172.82**
Stddev	.00081	.257	.00216	.00144	.00632	.00006	1.02
%RSD	20.371	.33876	6.2483	1.8778	.92943	2.2388	.59228
#1	.00341	76.022	.03235	.07512	.67375	.00275	171.71
#2	.00365	76.097	.03485	.07734	.67922	.00284	173.03
#3	.00493	75.619	.03666	.07782	.68635	.00288	173.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**.02722**	**.07101**	**.17618**	**70.242**	**20.364**	**.07113**
Stddev	.00006	.00025	.00113	.00135	.627	.112	.00089
%RSD	2.2357	.92153	1.5887	.76521	.89235	.55027	1.2476
#1	.00261	.02695	.06995	.17479	69.598	20.306	.07215
#2	.00272	.02726	.07089	.17628	70.277	20.293	.07051
#3	.00269	.02745	.07219	.17748	70.850	20.493	.07074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.488**	**2.3621**	**.00284**	**.65174**	**.05543**	F **11488.**	**.14145**
Stddev	.165	.0135	.00002	.01501	.00026	86.	.00272
%RSD	.76913	.57212	.80831	2.3027	.47488	.75257	1.9213
#1	21.305	2.3477	.00282	.64368	.05562	11403.	.13911
#2	21.534	2.3639	.00284	.66906	.05513	11487.	.14443
#3	21.625	2.3746	.00287	.64249	.05555	11576.	.14081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036344 Acquired: 2/18/2011 20:59:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-64.126**	F **270.98**	F **-3189.9**	**-.00278**	**.00317**	**52.894**	**.00559**
Stddev	9.758	2.07	14.0	.00132	.00214	.277	.00036
%RSD	15.217	.76506	.43888	47.409	67.652	.52351	6.4637
#1	-72.059	268.82	-3177.0	-.00132	.00562	52.582	.00554
#2	-67.090	271.17	-3187.8	-.00387	.00222	53.112	.00597
#3	-53.230	272.95	-3204.8	-.00315	.00167	52.987	.00525
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27119**	**.37793**	**.00755**	**.11073**	**.40437**	**36.856**
Stddev	.00150	.00234	.00068	.00246	.00366	.891
%RSD	.55373	.61828	9.0539	2.2230	.90466	2.4180
#1	.26950	.37590	.00712	.10821	.40056	35.827
#2	.27168	.37741	.00719	.11086	.40471	37.362
#3	.27239	.38049	.00834	.11313	.40785	37.379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78072.**	**55939.**
Stddev	299.	332.
%RSD	.38355	.59266
#1	78368.	56296.
#2	78078.	55879.
#3	77769.	55641.

Approved: February 21, 2011

Sample Name: L1102036345 Acquired: 2/18/2011 21:02:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00273**	**51.963**	**.18219**	**.04251**	**.58372**	**.00340**	**169.44**
Stddev	.00087	.694	.00041	.00035	.00543	.00005	1.49
%RSD	31.862	1.3361	.22391	.81541	.93062	1.4538	.87917
#1	.00222	51.886	.18179	.04230	.57831	.00339	168.24
#2	.00373	51.310	.18260	.04232	.58369	.00336	168.97
#3	.00223	52.692	.18217	.04291	.58917	.00346	171.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00393**	**.03251**	**.06042**	**.17203**	**70.245**	**12.797**	**.05810**
Stddev	.00004	.00061	.00039	.00378	.723	.114	.00043
%RSD	.97475	1.8750	.64362	2.1970	1.0291	.88982	.73932
#1	.00389	.03205	.06010	.16890	69.543	12.717	.05860
#2	.00396	.03227	.06031	.17096	70.203	12.746	.05787
#3	.00396	.03320	.06085	.17623	70.987	12.927	.05784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.769**	**2.4413**	**.00140**	**.59540**	**.05815**	F **6984.0**	**.23454**
Stddev	.183	.0244	.00032	.01635	.00053	107.3	.00452
%RSD	1.0279	1.0013	22.788	2.7453	.90365	1.5358	1.9256
#1	17.611	2.4210	.00134	.60598	.05787	6869.7	.23064
#2	17.727	2.4344	.00175	.60364	.05876	7000.0	.23350
#3	17.969	2.4684	.00112	.57658	.05783	7082.4	.23949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036345 Acquired: 2/18/2011 21:02:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-63.028**	F **321.23**	F **-4856.9**	**.00157**	**.00690**	**62.247**	**.00392**
Stddev	12.974	5.12	72.8	.00124	.00370	.731	.00019
%RSD	20.585	1.5941	1.4989	78.875	53.714	1.1741	4.8020
#1	-75.396	316.41	-4796.3	.00073	.01076	61.496	.00413
#2	-64.167	320.67	-4836.6	.00099	.00655	62.289	.00385
#3	-49.522	326.61	-4937.6	.00299	.00338	62.956	.00377
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17239**	**.13070**	**.00660**	**.09596**	**.56454**	**23.629**
Stddev	.00128	.00136	.00060	.00056	.00984	.385
%RSD	.74229	1.0377	9.0543	.58589	1.7424	1.6303
#1	.17133	.13160	.00684	.09622	.55460	23.657
#2	.17202	.12914	.00704	.09532	.56476	23.231
#3	.17381	.13136	.00592	.09635	.57427	24.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78318.**	**58018.**
Stddev	714.	470.
%RSD	.91107	.81035
#1	78922.	57898.
#2	78500.	58537.
#3	77531.	57620.

Approved: February 21, 2011

Sample Name: L1102036346 Acquired: 2/18/2011 21:06:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00457**	**73.861**	**.20679**	**.05241**	**.56017**	**.00310**	**337.73**
Stddev	.00026	.702	.00144	.00166	.00176	.00003	1.23
%RSD	5.7904	.95094	.69765	3.1636	.31347	.81121	.36371
#1	.00485	73.788	.20619	.05301	.55842	.00308	336.31
#2	.00455	73.197	.20843	.05054	.56015	.00310	338.46
#3	.00432	74.596	.20574	.05369	.56193	.00313	338.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**.02527**	**.06517**	**.18279**	**69.374**	**19.241**	**.06987**
Stddev	.00006	.00017	.00105	.00021	.219	.103	.00111
%RSD	1.0785	.66455	1.6110	.11226	.31579	.53515	1.5921
#1	.00518	.02508	.06464	.18268	69.136	19.126	.06972
#2	.00526	.02539	.06449	.18267	69.419	19.271	.06884
#3	.00516	.02533	.06638	.18303	69.568	19.325	.07105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.395**	**2.4876**	**.00147**	**.48819**	**.05399**	F **6130.0**	**.27192**
Stddev	.107	.0079	.00021	.01883	.00044	22.8	.00200
%RSD	.50150	.31827	14.037	3.8576	.81972	.37259	.73727
#1	21.274	2.4785	.00168	.47175	.05431	6105.8	.27234
#2	21.434	2.4932	.00127	.48410	.05348	6151.2	.26975
#3	21.478	2.4910	.00147	.50874	.05417	6133.0	.27369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036346 Acquired: 2/18/2011 21:06:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.015**	F **491.99**	F **-5357.5**	**.00102**	**.00753**	**62.103**	**.00444**
Stddev	9.303	1.77	31.8	.00083	.00262	.233	.00027
%RSD	16.035	.35900	.59405	81.128	34.834	.37569	6.0694
#1	-64.833	490.48	-5335.5	.00170	.00693	61.990	.00436
#2	-61.796	491.56	-5343.0	.00128	.00526	62.372	.00474
#3	-47.417	493.93	-5394.0	.00010	.01041	61.948	.00423
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15680**	**.26838**	**.00884**	**.10154**	**.75567**	**32.922**
Stddev	.00040	.00134	.00040	.00116	.00277	.526
%RSD	.25512	.49778	4.5738	1.1449	.36677	1.5982
#1	.15634	.26779	.00925	.10087	.75250	33.077
#2	.15698	.26743	.00844	.10087	.75687	32.336
#3	.15708	.26990	.00882	.10288	.75765	33.354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76519.**	**55934.**
Stddev	118.	445.
%RSD	.15362	.79537
#1	76547.	56315.
#2	76390.	56043.
#3	76620.	55445.

Approved: February 21, 2011

Sample Name: L1102036347 Acquired: 2/18/2011 21:09:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356831-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**59.805**	**.05559**	**.04208**	**.45814**	**.00291**	**401.00**
Stddev	.00035	.316	.00325	.00072	.00347	.00005	1.99
%RSD	9.2386	.52881	5.8403	1.7133	.75801	1.6603	.49591
#1	.00379	59.543	.05616	.04234	.45540	.00287	398.87
#2	.00350	59.717	.05851	.04262	.45697	.00290	401.31
#3	.00421	60.157	.05210	.04126	.46205	.00297	402.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00297**	**.02391**	**.06081**	**.15736**	**57.806**	**13.096**	**.06495**
Stddev	.00007	.00003	.00078	.00019	.284	.063	.00142
%RSD	2.2633	.14387	1.2799	.11781	.49053	.47725	2.1898
#1	.00292	.02395	.06015	.15757	57.593	13.037	.06574
#2	.00305	.02388	.06061	.15726	57.698	13.089	.06331
#3	.00296	.02391	.06167	.15724	58.128	13.162	.06581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.855**	**2.3217**	**.00102**	**.70363**	**.05224**	F **4490.8**	**.16969**
Stddev	.089	.0097	.00038	.00333	.00066	7.6	.00150
%RSD	.47296	.41795	37.246	.47339	1.2681	.16957	.88665
#1	18.787	2.3125	.00141	.70471	.05223	4482.3	.17111
#2	18.823	2.3207	.00065	.69990	.05290	4493.3	.16812
#3	18.956	2.3318	.00100	.70629	.05158	4496.9	.16985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036347 Acquired: 2/18/2011 21:09:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356831-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-81.117**	F **479.96**	F **-2455.5**	**.00078**	**.00448**	**57.334**	**.00399**
Stddev	3.651	1.65	10.7	.00142	.00052	.155	.00068
%RSD	4.5005	.34354	.43578	181.14	11.617	.27037	17.000
#1	-76.909	478.07	-2443.7	-.00082	.00456	57.512	.00433
#2	-83.003	481.08	-2458.1	.00188	.00496	57.261	.00321
#3	-83.439	480.73	-2464.6	.00129	.00393	57.228	.00442
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15046**	**.24807**	**.00682**	**.09157**	**.34142**	**23.254**
Stddev	.00085	.00183	.00176	.00125	.00136	.247
%RSD	.56331	.73900	25.851	1.3616	.39823	1.0605
#1	.14949	.24611	.00709	.09059	.33986	23.098
#2	.15087	.24973	.00494	.09114	.34228	23.539
#3	.15103	.24838	.00843	.09297	.34214	23.126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76341.**	**57153.**
Stddev	503.	265.
%RSD	.65854	.46345
#1	76681.	57166.
#2	75763.	57411.
#3	76577.	56882.

Approved: February 21, 2011

Sample Name: L1102036348S Acquired: 2/18/2011 21:13:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356831-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03933**	**64.288**	**.09492**	**.04641**	**.50356**	**.00296**	**436.47**
Stddev	.00048	.336	.00196	.00074	.00008	.00005	.85
%RSD	1.2118	.52244	2.0693	1.5855	.01611	1.6128	.19516
#1	.03987	64.195	.09703	.04726	.50361	.00300	435.62
#2	.03901	64.008	.09315	.04590	.50359	.00297	436.46
#3	.03909	64.661	.09458	.04608	.50346	.00291	437.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00843**	**.02578**	**.06509**	**.22031**	**63.405**	**14.312**	**.07293**
Stddev	.00007	.00022	.00019	.00185	.040	.058	.00123
%RSD	.85735	.84712	.29040	.83819	.06384	.40571	1.6840
#1	.00849	.02586	.06527	.21818	63.424	14.372	.07311
#2	.00846	.02594	.06489	.22145	63.359	14.256	.07406
#3	.00835	.02553	.06511	.22131	63.433	14.308	.07162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.423**	**2.5903**	**.00091**	**.76182**	**.05528**	F **4845.0**	**.22816**
Stddev	.032	.0078	.00020	.00737	.00059	16.6	.00093
%RSD	.15472	.30321	22.052	.96802	1.0644	.34309	.40842
#1	20.394	2.5819	.00085	.77009	.05534	4834.9	.22783
#2	20.417	2.5914	.00113	.75942	.05584	4835.9	.22743
#3	20.457	2.5975	.00074	.75594	.05467	4864.2	.22921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036348S Acquired: 2/18/2011 21:13:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356831-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-71.749**	F **514.62**	F **-2677.4**	**.00000**	**.00112**	**66.092**	**.00426**
Stddev	16.583	1.11	4.6	.0023	.00107	.195	.00010
%RSD	23.112	.21601	.17290	56356.	95.331	.29449	2.2460
#1	-71.799	513.91	-2679.6	.00173	.00207	65.974	.00427
#2	-88.307	514.05	-2672.1	-.00257	.00134	65.985	.00435
#3	-55.141	515.90	-2680.5	.00083	-.00004	66.317	.00416
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16492**	**.31929**	**.00618**	**.10047**	**.38816**	**24.508**
Stddev	.00081	.00221	.00162	.00057	.00117	.273
%RSD	.49086	.69065	26.185	.56275	.30187	1.1151
#1	.16444	.32184	.00433	.10106	.38720	24.775
#2	.16446	.31805	.00689	.09993	.38781	24.229
#3	.16585	.31799	.00732	.10042	.38947	24.520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74250.**	**55981.**
Stddev	260.	349.
%RSD	.34957	.62335
#1	74469.	55671.
#2	74318.	56359.
#3	73963.	55913.

Approved: February 21, 2011

Sample Name: L1102036349SD Acquired: 2/18/2011 21:16:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356831-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04039**	**49.917**	**.09165**	**.03566**	**.48720**	**.00326**	**437.90**
Stddev	.00026	.182	.00101	.00155	.00167	.00004	1.50
%RSD	.64902	.36434	1.1031	4.3519	.34321	1.3346	.34339
#1	.04069	49.881	.09221	.03439	.48531	.00322	436.21
#2	.04029	50.114	.09048	.03520	.48781	.00324	439.09
#3	.04019	49.756	.09226	.03739	.48848	.00331	438.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00832**	**.02500**	**.05761**	**.21544**	**56.934**	**11.575**	**.06210**
Stddev	.00023	.00029	.00058	.00084	.161	.104	.00430
%RSD	2.7085	1.1438	1.0130	.38794	.28253	.89541	6.9201
#1	.00817	.02470	.05801	.21467	56.754	11.471	.05909
#2	.00822	.02527	.05694	.21533	56.984	11.576	.06019
#3	.00858	.02503	.05789	.21633	57.064	11.678	.06702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.671**	**2.5369**	**.00117**	**.74768**	**.05332**	F **4799.0**	**.22634**
Stddev	.075	.0098	.00027	.01491	.00138	18.7	.00096
%RSD	.39937	.38572	22.986	1.9945	2.5891	.38867	.42444
#1	18.614	2.5257	.00101	.73927	.05385	4779.5	.22544
#2	18.644	2.5432	.00103	.73888	.05175	4800.8	.22735
#3	18.755	2.5420	.00148	.76490	.05435	4816.7	.22622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036349SD Acquired: 2/18/2011 21:16:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356831-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-71.312**	F **518.60**	F **-2668.9**	**.00190**	**.00419**	**76.366**	**.00357**
Stddev	11.335	1.05	7.0	.00013	.00288	.470	.00018
%RSD	15.894	.20330	.26383	6.9285	68.905	.61604	5.0012
#1	-74.378	517.60	-2661.8	.00176	.00118	76.071	.00337
#2	-58.760	518.49	-2675.9	.00193	.00693	76.118	.00372
#3	-80.799	519.70	-2669.0	.00202	.00446	76.909	.00363
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16054**	**.12342**	**.00678**	**.08974**	**.32905**	**19.121**
Stddev	.00028	.00179	.00123	.00044	.00101	.130
%RSD	.17272	1.4470	18.083	.49065	.30721	.67962
#1	.16032	.12136	.00590	.08997	.32799	19.267
#2	.16085	.12455	.00627	.09002	.32915	19.019
#3	.16045	.12434	.00818	.08924	.33000	19.077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74001.**	**55597.**
Stddev	141.	58.
%RSD	.19111	.10433
#1	74164.	55631.
#2	73917.	55530.
#3	73922.	55631.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 21:20:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38609**	**9.7037**	**.40202**	**.47699**	**.98748**	**.04825**	**9.9069**
Stddev	.00232	.1085	.00176	.00459	.00332	.00042	.0261
%RSD	.60100	1.1183	.43770	.96132	.33625	.86591	.26325
#1	.38375	9.5894	.40248	.47200	.98369	.04781	9.8864
#2	.38612	9.7163	.40007	.47795	.98887	.04831	9.9363
#3	.38839	9.8054	.40350	.48102	.98988	.04864	9.8981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05095**	**.20153**	**.48234**	**.49449**	**3.9577**	**49.428**	**.99232**
Stddev	.00019	.00054	.00428	.00046	.0141	.202	.00392
%RSD	.37690	.26989	.88644	.09231	.35740	.40955	.39518
#1	.05073	.20091	.47748	.49415	3.9454	49.206	.98919
#2	.05103	.20175	.48402	.49431	3.9546	49.474	.99104
#3	.05109	.20193	.48553	.49501	3.9732	49.603	.99672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9724**	**.49674**	**.98824**	**49.718**	**.50300**	F **7.2585**	**.51978**
Stddev	.0049	.00194	.00067	.263	.00100	3.3831	.00325
%RSD	.04942	.39133	.06816	.52817	.19827	46.608	.62461
#1	9.9668	.49460	.98784	49.431	.50197	10.058	.51616
#2	9.9749	.49840	.98785	49.775	.50306	3.4993	.52075
#3	9.9757	.49724	.98901	49.947	.50396	8.2184	.52243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 21:20:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.621**	**9.9629**	F **13.865**	**1.2111**	**.40114**	F **3.9712**	**1.0033**
Stddev	13.507	.0527	1.774	.0028	.00194	.0992	.0006
%RSD	44.111	.52895	12.793	.22827	.48304	2.4987	.05764
#1	-44.302	9.9509	12.366	1.2085	.39953	3.8573	1.0027
#2	-17.295	10.021	13.405	1.2107	.40059	4.0389	1.0033
#3	-30.266	9.9173	15.823	1.2140	.40329	4.0175	1.0038
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98070**	**1.0250**	**.50561**	**.94751**	**.99308**	F **1.5309**
Stddev	.00289	.0034	.00234	.00712	.00100	.3533
%RSD	.29499	.33574	.46347	.75122	.10066	23.075
#1	.97736	1.0229	.50295	.93940	.99194	1.9327
#2	.98223	1.0290	.50651	.95038	.99355	1.3910
#3	.98250	1.0231	.50737	.95274	.99377	1.2690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77615.**	**55070.**
Stddev	623.	422.
%RSD	.80218	.76659
#1	76911.	55526.
#2	77844.	54991.
#3	78091.	54692.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 21:23:56 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.01242**	**.00104**	**.00024**	**-.00038**	**.00004**	**.02116**
Stddev	.00056	.00330	.00244	.00043	.00024	.00004	.00092
%RSD	164.38	26.535	234.83	177.35	62.484	102.76	4.3312
#1	.00054	-.01154	-.00024	-.00023	-.00016	.00007	.02161
#2	-.00029	-.00966	.00386	.00035	-.00063	.00005	.02011
#3	.00078	-.01607	-.00050	.00060	-.00035	-.00001	.02177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00012**	**-.00052**	**-.00080**	**.00228**	**-.08234**	**-.00280**
Stddev	.00017	.00008	.00068	.00059	.00284	.02786	.00213
%RSD	101.10	62.896	131.32	74.488	124.53	33.835	76.182
#1	.00001	-.00010	-.00045	-.00148	.00371	-.05155	-.00059
#2	-.00033	-.00006	.00012	-.00040	-.00099	-.10580	-.00298
#3	-.00018	-.00021	-.00123	-.00051	.00411	-.08968	-.00484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00019**	**.00025**	**.05192**	**.00033**	F **-7.6505**	**.00241**
Stddev	.01621	.00064	.00019	.01335	.00020	1.0695	.00231
%RSD	5554.0	340.90	77.164	25.722	61.110	13.979	95.824
#1	.00738	.00041	.00011	.05819	.00029	-8.5313	.00454
#2	-.01825	-.00053	.00047	.06099	.00015	-6.4606	-.00004
#3	.01175	.00069	.00017	.03658	.00055	-7.9597	.00272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 21:23:56 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.171**	F **-.14839**	F **8.2394**	**-.00184**	**.00516**	**.10197**	**.00026**
Stddev	11.202	.02646	1.3445	.00356	.00206	.10528	.00004
%RSD	27.208	17.833	16.317	193.38	39.983	103.25	16.106
#1	-53.773	-.17010	6.9360	.00226	.00662	.20806	.00022
#2	-37.397	-.15616	9.6214	-.00408	.00280	.10031	.00025
#3	-32.345	-.11892	8.1608	-.00370	.00606	-.00247	.00030
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00050**	**.00124**	**-.00016**	**.00017**	F **.43468**
Stddev	.00044	.00093	.00052	.00079	.00009	.14182
%RSD	362.43	185.39	42.071	502.10	52.342	32.625
#1	.00021	.00045	.00177	.00057	.00026	.28225
#2	.00004	-.00142	.00121	-.00099	.00010	.56272
#3	-.00061	-.00054	.00073	-.00005	.00014	.45906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76356.**	**56335.**
Stddev	105.	343.
%RSD	.13750	.60892
#1	76476.	55985.
#2	76282.	56349.
#3	76310.	56671.

Approved: February 21, 2011

Sample Name: L1102036501 Acquired: 2/18/2011 21:27:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**65.754**	**.03618**	**.05237**	**.56597**	**.00341**	**359.68**
Stddev	.00076	.812	.00047	.00171	.00072	.00006	1.06
%RSD	18.022	1.2356	1.2941	3.2739	.12787	1.8127	.29449
#1	.00376	64.898	.03581	.05113	.56563	.00334	358.50
#2	.00382	66.515	.03671	.05166	.56680	.00347	360.55
#3	.00511	65.849	.03603	.05433	.56548	.00342	360.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00388**	**.02715**	**.07890**	**.16827**	**66.237**	**15.986**	**.07829**
Stddev	.00012	.00009	.00079	.00120	.051	.010	.00087
%RSD	3.0497	.33124	.99698	.71524	.07751	.06201	1.1099
#1	.00397	.02719	.07822	.16699	66.188	15.987	.07900
#2	.00392	.02721	.07976	.16847	66.291	15.996	.07732
#3	.00375	.02705	.07871	.16937	66.233	15.976	.07855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.563**	**3.2543**	**.00125**	**.44814**	**.06455**	F **6288.0**	**.23100**
Stddev	.136	.0099	.00020	.01757	.00033	13.9	.00185
%RSD	.51365	.30479	16.145	3.9199	.51726	.22058	.80132
#1	26.406	3.2433	.00138	.42822	.06489	6278.5	.23062
#2	26.658	3.2570	.00102	.46143	.06454	6281.5	.23301
#3	26.623	3.2626	.00135	.45477	.06422	6303.9	.22937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036501 Acquired: 2/18/2011 21:27:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-66.612**	F **401.92**	F **-1347.1**	**.00028**	**.00394**	**57.584**	**.00399**
Stddev	9.424	1.01	1.3	.00221	.00312	.053	.00040
%RSD	14.147	.25041	.09751	799.70	79.249	.09269	10.134
#1	-77.482	400.85	-1348.4	-.00102	.00753	57.524	.00372
#2	-61.596	402.04	-1347.2	-.00097	.00246	57.627	.00445
#3	-60.757	402.86	-1345.8	.00282	.00184	57.600	.00379
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19892**	**.31827**	**.00975**	**.10670**	**.42510**	**23.268**
Stddev	.00033	.00394	.00174	.00147	.00165	.179
%RSD	.16412	1.2394	17.873	1.3804	.38770	.76925
#1	.19858	.31381	.01151	.10510	.42370	23.265
#2	.19896	.31970	.00973	.10800	.42468	23.090
#3	.19923	.32130	.00802	.10700	.42692	23.448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75815.**	**57082.**
Stddev	542.	686.
%RSD	.71469	1.2015
#1	76252.	57786.
#2	75984.	56416.
#3	75209.	57044.

Approved: February 21, 2011

Sample Name: L1102036502 Acquired: 2/18/2011 21:31:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00421**	**47.739**	**.02970**	**.04556**	**.50549**	**.00301**	**377.49**
Stddev	.00080	.095	.00069	.00108	.00091	.00003	.86
%RSD	19.062	.19821	2.3125	2.3744	.18023	1.0917	.22820
#1	.00374	47.790	.03035	.04432	.50445	.00301	376.68
#2	.00375	47.630	.02978	.04619	.50585	.00297	377.40
#3	.00514	47.797	.02898	.04619	.50616	.00304	378.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.02302**	**.06186**	**.68534**	**54.313**	**13.222**	**.06336**
Stddev	.00023	.00008	.00054	.00231	.176	.056	.00251
%RSD	5.5850	.32762	.86791	.33661	.32404	.42070	3.9556
#1	.00422	.02299	.06248	.68298	54.109	13.222	.06087
#2	.00387	.02297	.06156	.68543	54.419	13.167	.06332
#3	.00430	.02311	.06154	.68759	54.409	13.278	.06588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.290**	**2.8051**	**.00161**	**.32720**	**.05249**	F **13999.**	**.20280**
Stddev	.102	.0064	.00034	.01464	.00039	17.	.00160
%RSD	.43891	.22906	20.811	4.4739	.74181	.12482	.79026
#1	23.189	2.8035	.00194	.31036	.05259	13979.	.20099
#2	23.288	2.7996	.00162	.33434	.05206	14003.	.20403
#3	23.393	2.8121	.00127	.33691	.05281	14014.	.20338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036502 Acquired: 2/18/2011 21:31:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.596**	F **429.59**	F **-1613.9**	**-.00082**	**.00506**	**48.808**	**.00548**
Stddev	10.081	1.05	6.1	.00135	.00330	.301	.00017
%RSD	22.605	.24547	.37496	164.29	65.199	.61658	3.0716
#1	-33.456	428.64	-1608.6	-.00225	.00631	48.769	.00553
#2	-47.242	429.39	-1620.5	-.00063	.00755	48.528	.00562
#3	-53.089	430.72	-1612.6	.00042	.00132	49.126	.00530
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22420**	**.17705**	**.00544**	**.08198**	**.50826**	**16.217**
Stddev	.00034	.00147	.00067	.00057	.00166	.031
%RSD	.15235	.83115	12.405	.69893	.32734	.19411
#1	.22383	.17874	.00474	.08263	.50685	16.228
#2	.22425	.17610	.00608	.08155	.50784	16.182
#3	.22451	.17630	.00550	.08175	.51010	16.242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74073.**	**55069.**
Stddev	237.	201.
%RSD	.31964	.36493
#1	74321.	55230.
#2	74047.	55134.
#3	73849.	54844.

Approved: February 21, 2011

Sample Name: L1102036503 Acquired: 2/18/2011 21:34:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00494**	**73.315**	**.03441**	**.05830**	**.54896**	**.00366**	**375.19**
Stddev	.00038	1.571	.00138	.00208	.00311	.00012	1.71
%RSD	7.7684	2.1422	4.0080	3.5618	.56720	3.2394	.45492
#1	.00500	71.601	.03294	.05767	.54553	.00356	373.25
#2	.00529	73.661	.03460	.05662	.54972	.00362	375.83
#3	.00453	74.684	.03568	.06062	.55162	.00379	376.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00392**	**.02715**	**.08716**	**.24090**	**68.278**	**16.464**	**.08231**
Stddev	.00006	.00023	.00170	.00075	.291	.095	.00318
%RSD	1.5651	.83521	1.9461	.31288	.42575	.57966	3.8639
#1	.00392	.02695	.08544	.24012	67.965	16.361	.08139
#2	.00386	.02710	.08721	.24096	68.331	16.549	.07969
#3	.00398	.02739	.08883	.24162	68.539	16.484	.08585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.170**	**3.2624**	**.00130**	**.48188**	**.06585**	F **10961.**	**.19037**
Stddev	.083	.0086	.00017	.00434	.00066	47.	.00383
%RSD	.30490	.26373	12.763	.90031	1.0029	.42701	2.0097
#1	27.077	3.2530	.00119	.47705	.06570	10930.	.19463
#2	27.197	3.2642	.00149	.48313	.06657	10938.	.18722
#3	27.236	3.2700	.00122	.48545	.06527	11015.	.18926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036503 Acquired: 2/18/2011 21:34:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-49.504**	F **416.46**	F **-1369.2**	**.00108**	**.00777**	**51.749**	**.00476**
Stddev	11.724	.98	4.1	.00326	.00433	.350	.00026
%RSD	23.683	.23442	.29588	302.88	55.720	.67545	5.3657
#1	-48.591	415.60	-1365.1	.00474	.01119	51.348	.00470
#2	-38.264	416.27	-1373.2	-.00150	.00290	51.908	.00504
#3	-61.658	417.52	-1369.1	.00000	.00923	51.991	.00453
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19661**	**.35674**	**.00771**	**.11242**	**.48493**	**24.801**
Stddev	.00070	.00312	.00139	.00267	.00159	.506
%RSD	.35830	.87474	18.011	2.3720	.32696	2.0390
#1	.19588	.35380	.00650	.10949	.48346	24.231
#2	.19729	.35640	.00922	.11309	.48471	25.194
#3	.19666	.36001	.00739	.11469	.48661	24.979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75627.**	**54529.**
Stddev	357.	458.
%RSD	.47251	.83967
#1	75688.	54807.
#2	75951.	54780.
#3	75244.	54001.

Approved: February 21, 2011

Sample Name: L1102036504 Acquired: 2/18/2011 21:38:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00569**	**78.606**	**.04019**	**.06401**	**.58851**	**.00384**	**384.26**
Stddev	.00038	.537	.00116	.00155	.00287	.00005	2.69
%RSD	6.6761	.68328	2.8840	2.4246	.48704	1.3377	.70122
#1	.00613	78.887	.03907	.06227	.58537	.00378	381.34
#2	.00553	78.944	.04010	.06449	.59098	.00386	384.80
#3	.00542	77.986	.04139	.06526	.58918	.00387	386.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00443**	**.02986**	**.09395**	**.24492**	**71.908**	**17.846**	**.08867**
Stddev	.00015	.00028	.00047	.00306	.342	.132	.00221
%RSD	3.3443	.92703	.50551	1.2505	.47509	.74131	2.4914
#1	.00443	.02955	.09355	.24234	71.517	17.694	.08633
#2	.00428	.03010	.09382	.24411	72.143	17.923	.08896
#3	.00457	.02992	.09447	.24830	72.066	17.923	.09071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.709**	**3.5224**	**.00181**	**.52421**	**.07340**	F **11739.**	**.22184**
Stddev	.172	.0255	.00025	.00556	.00088	120.	.00320
%RSD	.60012	.72413	14.039	1.0601	1.2014	1.0254	1.4412
#1	28.513	3.4958	.00192	.53063	.07238	11608.	.21819
#2	28.778	3.5247	.00198	.52098	.07388	11764.	.22321
#3	28.836	3.5466	.00151	.52102	.07394	11844.	.22413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036504 Acquired: 2/18/2011 21:38:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.302**	F **445.64**	F **-1464.4**	**-.00074**	**.00107**	**55.213**	**.00536**
Stddev	17.218	5.17	15.6	.00142	.00406	.483	.00023
%RSD	30.049	1.1609	1.0638	191.01	378.78	.87391	4.3353
#1	-70.826	440.31	-1452.6	-.00066	.00506	54.663	.00509
#2	-63.162	445.96	-1458.7	-.00221	.00121	55.566	.00545
#3	-37.919	450.64	-1482.1	.00064	-.00305	55.411	.00553
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19769**	**.41554**	**.00885**	**.11834**	**.54829**	**28.440**
Stddev	.00125	.00495	.00117	.00133	.00639	.348
%RSD	.63005	1.1903	13.173	1.1208	1.1651	1.2244
#1	.19626	.41068	.00829	.11789	.54169	28.140
#2	.19826	.41538	.01019	.11731	.54874	28.359
#3	.19854	.42057	.00807	.11984	.55445	28.822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74891.**	**55772.**
Stddev	164.	141.
%RSD	.21863	.25355
#1	75054.	55900.
#2	74727.	55797.
#3	74891.	55620.

Approved: February 21, 2011

Sample Name: L1102036505 Acquired: 2/18/2011 21:41:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00391**	**46.399**	**.03642**	**.04074**	**.70663**	**.00232**	**82.197**
Stddev	.00058	.204	.00147	.00197	.00422	.00002	.127
%RSD	14.908	.44012	4.0386	4.8470	.59671	.74369	.15481
#1	.00442	46.173	.03674	.04206	.70177	.00232	82.106
#2	.00327	46.570	.03481	.03847	.70878	.00233	82.142
#3	.00405	46.454	.03770	.04169	.70934	.00230	82.342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00310**	**.02915**	**.04813**	**.30536**	**64.508**	**10.467**	**.06509**
Stddev	.00008	.00014	.00013	.00178	.322	.089	.00271
%RSD	2.4952	.47878	.26777	.58391	.49882	.85233	4.1583
#1	.00302	.02925	.04800	.30427	64.137	10.561	.06406
#2	.00310	.02920	.04825	.30439	64.668	10.383	.06816
#3	.00318	.02899	.04815	.30742	64.717	10.457	.06305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.953**	**3.0372**	**.00310**	**.40581**	**.04600**	F **4807.7**	**.19015**
Stddev	.051	.0034	.00004	.01201	.00039	11.7	.00067
%RSD	.28306	.11062	1.2052	2.9593	.85028	.24359	.35153
#1	17.900	3.0360	.00306	.41949	.04621	4795.8	.19062
#2	17.957	3.0345	.00313	.40092	.04555	4808.1	.18938
#3	18.001	3.0410	.00311	.39701	.04625	4819.2	.19044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036505 Acquired: 2/18/2011 21:41:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-45.981**	F **126.15**	F **-1406.7**	**-.00099**	**.00620**	**56.164**	**.00478**
Stddev	13.141	.64	14.1	.00205	.00210	.218	.00017
%RSD	28.578	.50562	1.0036	205.96	33.933	.38851	3.4836
#1	-59.821	125.66	-1390.8	-.00335	.00748	55.963	.00495
#2	-33.674	125.92	-1412.0	.00001	.00734	56.132	.00461
#3	-44.448	126.87	-1417.5	.00035	.00377	56.396	.00479
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21498**	**.30345**	**.00673**	**.08721**	**.38066**	**15.747**
Stddev	.00007	.00089	.00086	.00097	.00121	.081
%RSD	.03205	.29492	12.714	1.1145	.31748	.51486
#1	.21505	.30297	.00721	.08815	.37966	15.667
#2	.21495	.30289	.00724	.08728	.38031	15.829
#3	.21492	.30448	.00574	.08621	.38200	15.745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78175.**	**56121.**
Stddev	1503.	216.
%RSD	1.9224	.38509
#1	76455.	56169.
#2	78837.	56310.
#3	79233.	55885.

Approved: February 21, 2011

Sample Name: L1102036506 Acquired: 2/18/2011 21:45:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00318**	**54.200**	**.03778**	**.03871**	**.64066**	**.00337**	**211.26**
Stddev	.00067	.538	.00127	.00146	.00448	.00003	1.45
%RSD	21.145	.99245	3.3596	3.7596	.70005	.79494	.68582
#1	.00275	53.591	.03845	.03708	.63686	.00334	209.75
#2	.00395	54.401	.03857	.03920	.63951	.00339	211.40
#3	.00284	54.609	.03631	.03986	.64561	.00338	212.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00372**	**.02945**	**.07561**	**.19397**	**66.213**	**11.700**	**.06494**
Stddev	.00011	.00012	.00065	.00227	.406	.124	.00167
%RSD	2.9206	.42113	.86507	1.1689	.61358	1.0623	2.5710
#1	.00359	.02933	.07487	.19183	65.815	11.558	.06326
#2	.00380	.02946	.07582	.19373	66.197	11.789	.06497
#3	.00377	.02957	.07613	.19635	66.627	11.754	.06660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.832**	**3.8397**	**.00265**	**.45185**	**.06560**	F **4495.2**	**.23387**
Stddev	.192	.0240	.00012	.01255	.00059	45.4	.00362
%RSD	.77369	.62456	4.4618	2.7772	.89606	1.0089	1.5500
#1	24.621	3.8144	.00251	.46074	.06538	4451.8	.22997
#2	24.880	3.8426	.00274	.45732	.06516	4491.3	.23452
#3	24.996	3.8620	.00269	.43750	.06627	4542.3	.23713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036506 Acquired: 2/18/2011 21:45:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-98.751**	F **250.05**	F **-1057.8**	**-.00120**	**.00783**	**51.571**	**.00463**
Stddev	6.372	2.45	12.6	.00162	.00213	.268	.00013
%RSD	6.4530	.97907	1.1885	134.90	27.232	.51901	2.8121
#1	-100.98	247.62	-1044.3	-.00255	.00685	51.296	.00452
#2	-91.564	250.01	-1060.2	.00060	.01027	51.586	.00461
#3	-103.71	252.52	-1069.1	-.00167	.00636	51.831	.00477
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21646**	**.20753**	**.00764**	**.09474**	**.43098**	**21.962**
Stddev	.00155	.00098	.00045	.00092	.00424	.210
%RSD	.71410	.47333	5.8629	.96775	.98476	.95552
#1	.21468	.20682	.00779	.09372	.42659	22.033
#2	.21723	.20865	.00798	.09500	.43130	21.726
#3	.21747	.20712	.00713	.09549	.43506	22.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77779.**	**58859.**
Stddev	136.	141.
%RSD	.17435	.23881
#1	77885.	58942.
#2	77827.	58939.
#3	77626.	58697.

Approved: February 21, 2011

Sample Name: L1102036507 Acquired: 2/18/2011 21:48:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00317**	**31.983**	**.03529**	**.03197**	**.58198**	**.00106**	**45.133**
Stddev	.00070	.081	.00085	.00172	.00110	.00001	.053
%RSD	22.072	.25256	2.4083	5.3834	.18907	.83509	.11736
#1	.00387	32.006	.03522	.03335	.58072	.00105	45.077
#2	.00318	32.049	.03448	.03004	.58274	.00107	45.183
#3	.00247	31.893	.03617	.03251	.58248	.00106	45.138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**.02508**	**.03064**	**.19773**	**58.605**	**5.4124**	**.05265**
Stddev	.00003	.00028	.00111	.00040	.182	.0295	.00086
%RSD	1.8621	1.1162	3.6095	.20096	.31070	.54492	1.6281
#1	.00185	.02476	.03013	.19727	58.405	5.4090	.05188
#2	.00180	.02521	.03191	.19799	58.762	5.4434	.05357
#3	.00187	.02528	.02989	.19793	58.647	5.3848	.05249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.712**	**1.8391**	**.00238**	**.40334**	**.03043**	F **6453.3**	**.10622**
Stddev	.045	.0038	.00038	.00896	.00014	30.6	.00138
%RSD	.32775	.20561	16.050	2.2210	.45813	.47361	1.2977
#1	13.688	1.8350	.00264	.40349	.03032	6469.7	.10548
#2	13.683	1.8397	.00256	.39430	.03059	6418.1	.10781
#3	13.763	1.8425	.00194	.41222	.03040	6472.2	.10537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036507 Acquired: 2/18/2011 21:48:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.962**	F **69.197**	F **-772.26**	**-.00108**	**.00678**	F **107.16**	**.00432**
Stddev	17.490	.197	2.85	.00028	.00357	.14	.00060
%RSD	35.722	.28502	.36874	26.121	52.610	.12973	13.963
#1	-68.968	69.085	-773.19	-.00117	.00573	107.04	.00491
#2	-36.568	69.081	-769.06	-.00129	.00386	107.31	.00435
#3	-41.349	69.425	-774.52	-.00076	.01075	107.13	.00370
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24599**	**.41314**	**.00574**	**.08978**	**.37098**	**18.627**
Stddev	.00067	.00283	.00095	.00121	.00065	.283
%RSD	.27044	.68586	16.516	1.3468	.17589	1.5184
#1	.24551	.41029	.00673	.08855	.37070	18.939
#2	.24675	.41315	.00484	.09096	.37052	18.552
#3	.24571	.41596	.00566	.08984	.37173	18.388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76794.**	**57005.**
Stddev	159.	221.
%RSD	.20733	.38687
#1	76978.	57243.
#2	76700.	56808.
#3	76705.	56964.

Approved: February 21, 2011

Sample Name: L1102036508 Acquired: 2/18/2011 21:52:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00327**	**28.426**	**.02948**	**.02751**	**.47898**	**.00090**	**45.341**
Stddev	.00075	.071	.00071	.00024	.00409	.00004	.477
%RSD	22.857	.25043	2.4165	.87982	.85426	4.8478	1.0519
#1	.00245	28.390	.03012	.02769	.47437	.00085	44.897
#2	.00345	28.380	.02960	.02724	.48038	.00093	45.283
#3	.00391	28.508	.02871	.02760	.48218	.00092	45.845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.02342**	**.03024**	**.13480**	**55.087**	**4.3410**	**.04469**
Stddev	.00012	.00017	.00093	.00127	.434	.1288	.00128
%RSD	8.1976	.71208	3.0662	.94538	.78855	2.9659	2.8748
#1	.00152	.02331	.02920	.13376	54.642	4.1929	.04342
#2	.00149	.02361	.03057	.13442	55.107	4.4042	.04468
#3	.00130	.02335	.03096	.13622	55.510	4.4260	.04599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.623**	**1.6305**	**.00122**	**.42132**	**.02930**	F **6337.8**	**.09271**
Stddev	.107	.0138	.00005	.02218	.00006	38.6	.00199
%RSD	.84930	.84335	3.8632	5.2638	.20985	.60976	2.1449
#1	12.522	1.6186	.00120	.41962	.02936	6313.7	.09347
#2	12.612	1.6273	.00127	.40004	.02924	6317.3	.09045
#3	12.735	1.6455	.00119	.44430	.02929	6382.4	.09420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036508 Acquired: 2/18/2011 21:52:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.359**	F **62.113**	F **-446.97**	**-.00178**	**.00185**	F **107.46**	**.00293**
Stddev	4.037	.540	2.77	.00458	.00576	.87	.00062
%RSD	10.003	.87012	.61883	256.61	312.27	.81056	21.028
#1	-43.408	61.556	-446.38	-.00385	.00781	106.76	.00256
#2	-41.889	62.146	-444.55	.00346	-.00369	107.18	.00259
#3	-35.780	62.636	-449.99	-.00497	.00142	108.43	.00365
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21826**	**.39594**	**.00516**	**.09242**	**.23755**	**18.906**
Stddev	.00222	.00160	.00224	.00029	.00214	.173
%RSD	1.0189	.40300	43.345	.30897	.90018	.91546
#1	.21647	.39428	.00721	.09219	.23577	19.060
#2	.21757	.39608	.00551	.09274	.23696	18.939
#3	.22075	.39746	.00277	.09232	.23992	18.719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75653.**	**55184.**
Stddev	267.	148.
%RSD	.35266	.26767
#1	75755.	55285.
#2	75855.	55015.
#3	75351.	55254.

Approved: February 21, 2011

Sample Name: L1102036509 Acquired: 2/18/2011 21:55:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00310**	**41.403**	**.03904**	**.03624**	**.64037**	**.00215**	**109.51**
Stddev	.00101	.383	.00215	.00145	.00766	.00003	1.26
%RSD	32.676	.92416	5.5164	4.0003	1.1968	1.4194	1.1520
#1	.00415	40.964	.03665	.03493	.63179	.00211	108.13
#2	.00301	41.581	.03963	.03600	.64279	.00216	109.79
#3	.00214	41.664	.04084	.03780	.64653	.00217	110.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00244**	**.02990**	**.04289**	**.19529**	**59.883**	**9.0747**	**.06152**
Stddev	.00018	.00066	.00029	.00589	.667	.1131	.00411
%RSD	7.3828	2.2152	.68293	3.0139	1.1145	1.2458	6.6794
#1	.00242	.02933	.04255	.18962	59.157	8.9471	.05919
#2	.00227	.02975	.04304	.19488	60.022	9.1150	.06627
#3	.00263	.03063	.04307	.20137	60.470	9.1621	.05911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.093**	**2.4631**	**.00380**	**.44713**	**.04474**	F **6118.9**	**.14430**
Stddev	.233	.0284	.00040	.01251	.00097	138.7	.00419
%RSD	1.2210	1.1511	10.394	2.7989	2.1756	2.2661	2.9052
#1	18.830	2.4317	.00345	.44860	.04378	5978.1	.13964
#2	19.175	2.4709	.00372	.45884	.04471	6123.2	.14550
#3	19.274	2.4868	.00423	.43394	.04572	6255.3	.14776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036509 Acquired: 2/18/2011 21:55:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-11.762**	F **156.25**	F **-1180.2**	**-.00072**	**.00633**	**65.084**	**.00332**
Stddev	10.657	3.13	26.7	.00208	.00183	1.402	.00027
%RSD	90.607	2.0038	2.2652	291.32	28.877	2.1538	8.0080
#1	-18.095	153.33	-1155.1	.00141	.00529	63.736	.00352
#2	.5421	155.87	-1177.4	-.00275	.00845	64.981	.00341
#3	-17.732	159.56	-1208.3	-.00081	.00526	66.534	.00302
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27815**	**.29916**	**.00596**	**.09714**	**.35001**	**18.691**
Stddev	.00272	.00739	.00038	.00009	.00776	.117
%RSD	.97883	2.4719	6.3081	.09546	2.2173	.62392
#1	.27521	.29082	.00558	.09722	.34245	18.614
#2	.27866	.30173	.00633	.09717	.34961	18.634
#3	.28058	.30493	.00597	.09704	.35796	18.825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75129.**	**53043.**
Stddev	558.	216.
%RSD	.74281	.40661
#1	74493.	52877.
#2	75359.	52966.
#3	75536.	53287.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 21:59:21 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39413**	**9.9402**	**.40949**	**.48781**	**1.0024**	**.04912**	**10.122**
Stddev	.00378	.0776	.00384	.00191	.0042	.00035	.039
%RSD	.95924	.78034	.93795	.39079	.41521	.71917	.38625
#1	.39182	9.8754	.40530	.48771	.99829	.04889	10.081
#2	.39850	10.026	.41031	.48976	1.0022	.04953	10.158
#3	.39208	9.9190	.41285	.48596	1.0066	.04894	10.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05176**	**.20518**	**.49039**	**.50475**	**4.0281**	**50.480**	**1.0090**
Stddev	.00010	.00067	.00460	.00259	.0084	.239	.0082
%RSD	.19769	.32857	.93879	.51232	.20794	.47312	.81313
#1	.05165	.20452	.48807	.50188	4.0202	50.206	1.0001
#2	.05179	.20515	.49569	.50545	4.0273	50.590	1.0106
#3	.05185	.20587	.48741	.50690	4.0369	50.644	1.0163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.126**	**.50902**	**1.0082**	**50.446**	**.51327**	F **6.1637**	**.52474**
Stddev	.078	.00332	.0055	.235	.00245	.4472	.00338
%RSD	.77079	.65270	.54059	.46583	.47810	7.2561	.64393
#1	10.039	.50523	1.0036	50.235	.51063	6.5716	.52665
#2	10.152	.51143	1.0067	50.403	.51369	5.6855	.52084
#3	10.189	.51039	1.0142	50.699	.51548	6.2339	.52673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 21:59:21 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-35.928**	**10.153**	F **14.441**	**1.2371**	**.40734**	F **4.3140**	**1.0251**
Stddev	6.433	.045	1.847	.0044	.00268	.1164	.0057
%RSD	17.904	.44383	12.788	.35434	.65726	2.6981	.55966
#1	-35.673	10.112	14.585	1.2335	.40425	4.1810	1.0190
#2	-42.485	10.147	16.211	1.2358	.40874	4.3970	1.0261
#3	-29.627	10.201	12.526	1.2420	.40902	4.3641	1.0303
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0029**	**1.0501**	**.51344**	**.96665**	**1.0158**	F **1.5600**
Stddev	.0064	.0059	.00303	.00616	.0037	.0999
%RSD	.64028	.56171	.59064	.63680	.36737	6.4050
#1	.99572	1.0434	.51271	.96363	1.0120	1.4814
#2	1.0080	1.0545	.51084	.97374	1.0160	1.5262
#3	1.0051	1.0525	.51677	.96259	1.0195	1.6725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75817.**	**54771.**
Stddev	325.	326.
%RSD	.42923	.59441
#1	75505.	54966.
#2	75790.	54395.
#3	76154.	54952.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 22:02:53 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**-.00626**	**.00113**	**.00051**	**-.00035**	**.00004**	**.00989**
Stddev	.00049	.00446	.00164	.00147	.00023	.00003	.01970
%RSD	40.836	71.332	145.57	289.36	67.342	61.764	199.16
#1	.00069	-.00201	-.00071	-.00079	-.00051	.00004	.03244
#2	.00167	-.01091	.00163	.00021	-.00045	.00002	.00121
#3	.00127	-.00585	.00246	.00210	-.00008	.00007	-.00397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00004**	**-.00056**	**-.00037**	**.00578**	**-.03128**	**-.00041**
Stddev	.00014	.00013	.00046	.00104	.00387	.01823	.00195
%RSD	363.30	331.46	82.864	284.21	66.915	58.287	477.53
#1	-.00007	.00009	-.00108	-.00103	.00675	-.04807	-.00049
#2	.00019	-.00017	-.00020	.00084	.00907	-.01189	.00158
#3	-.00001	-.00004	-.00039	-.00091	.00152	-.03387	-.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00011**	**.00064**	**.04037**	**.00053**	F **-8.9985**	**.00284**
Stddev	.01702	.00029	.00021	.01012	.00060	7.5538	.00155
%RSD	15868.	269.58	32.361	25.059	114.68	83.944	54.601
#1	.00105	.00016	.00057	.04559	.00069	-5.8823	.00369
#2	-.01737	.00036	.00088	.04680	-.00014	-17.612	.00378
#3	.01663	-.00020	.00048	.02871	.00103	-3.5015	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 22:02:53 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.619**	F **-.17637**	F **7.4794**	**-.00352**	**.00108**	**.09669**	**.00007**
Stddev	18.060	.03140	3.6274	.00235	.00174	.11368	.00014
%RSD	43.395	17.804	48.498	66.670	161.06	117.58	209.18
#1	-56.762	-.14937	3.6879	-.00466	.00240	.03892	-.00009
#2	-21.630	-.21083	7.8336	-.00509	-.00089	.02349	.00016
#3	-46.465	-.16890	10.917	-.00082	.00174	.22766	.00014
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00053**	**.00175**	**-.00023**	**.00017**	F **.65306**
Stddev	.00029	.00150	.00237	.00041	.00010	.38910
%RSD	108.16	281.68	136.01	175.77	59.884	59.582
#1	.00061	.00118	.00371	.00006	.00015	.93011
#2	.00009	-.00114	.00241	-.00069	.00008	.82085
#3	.00011	-.00163	-.00089	-.00006	.00028	.20821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77919.**	**56009.**
Stddev	180.	298.
%RSD	.23106	.53254
#1	77744.	55825.
#2	77910.	56353.
#3	78103.	55849.

Approved: February 21, 2011

Sample Name: PBS 3B Acquired: 2/18/2011 22:06:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356851-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**-.00064**	**.00026**	**-.00110**	**-.00068**	**.00003**	**.03227**
Stddev	.00047	.00020	.00104	.00127	.00019	.00002	.01386
%RSD	38.619	31.560	391.14	115.71	27.604	50.043	42.940
#1	.00169	-.00065	.00137	.00010	-.00090	.00004	.02665
#2	.00076	-.00083	-.00069	-.00095	-.00061	.00001	.02211
#3	.00118	-.00043	.00011	-.00243	-.00054	.00003	.04806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00042**	**.00042**	**.00008**	**.04975**	**-.07445**	**-.00240**
Stddev	.00002	.00014	.00031	.00089	.00473	.07132	.00189
%RSD	19.331	33.864	72.468	1046.1	9.5109	95.794	78.622
#1	.00010	-.00052	.00033	.00077	.05241	-.05204	-.00445
#2	.00012	-.00026	.00076	.00041	.05257	-.15429	-.00200
#3	.00009	-.00047	.00017	-.00092	.04429	-.01703	-.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00373**	**-.00001**	**-.00004**	**.06025**	**.00140**	F **-9.8997**	**.00209**
Stddev	.02039	.00051	.00015	.00716	.00043	7.9381	.00053
%RSD	546.95	8010.6	361.86	11.881	30.788	80.185	25.316
#1	.02664	-.00034	-.00019	.06848	.00095	-2.0336	.00165
#2	-.00303	.00058	-.00003	.05684	.00181	-17.908	.00195
#3	-.01243	-.00026	.00010	.05544	.00142	-9.7576	.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: PBS 3B Acquired: 2/18/2011 22:06:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356851-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-34.695**	F **-.03817**	**3.9790**	**.00026**	**.00176**	**1.6732**	**.00107**
Stddev	13.374	.04496	1.1388	.00200	.00423	.1634	.00005
%RSD	38.547	117.79	28.621	780.77	239.86	9.7651	4.2139
#1	-49.870	.00617	3.3861	-.00181	.00518	1.5507	.00113
#2	-24.628	-.03695	5.2919	.00041	.00309	1.6102	.00104
#3	-29.586	-.08372	3.2589	.00217	-.00297	1.8587	.00105
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00067**	**-.00075**	**-.00027**	**.00206**	**.56688**
Stddev	.00013	.00216	.00210	.00057	.00003	.40188
%RSD	194.13	322.67	281.50	212.92	1.2438	70.893
#1	-.00019	-.00066	.00157	.00034	.00205	.51046
#2	-.00006	.00148	-.00252	-.00037	.00209	.99399
#3	.00006	-.00283	-.00129	-.00078	.00204	.19619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75297.**	**53649.**
Stddev	340.	347.
%RSD	.45203	.64719
#1	74952.	53920.
#2	75306.	53770.
#3	75632.	53258.

Approved: February 21, 2011

Sample Name: LCSS 3B Acquired: 2/18/2011 22:10:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356851-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18920**	**-.01657**	**.19375**	**-.00093**	**-.00097**	**.00005**	**.01282**
Stddev	.00064	.00187	.00192	.00204	.00022	.00001	.00724
%RSD	.34030	11.314	.99045	219.02	23.192	18.441	56.519
#1	.18929	-.01572	.19254	.00126	-.00089	.00006	.00552
#2	.18979	-.01871	.19276	-.00276	-.00079	.00006	.01293
#3	.18851	-.01526	.19597	-.00130	-.00122	.00004	.02000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02508**	**-.00037**	**.00019**	**.24935**	**.00639**	**-.06128**	**-.00133**
Stddev	.00019	.00008	.00042	.00097	.00573	.02971	.00070
%RSD	.76332	20.933	218.52	.38832	89.558	48.472	52.527
#1	.02497	-.00034	-.00024	.24849	-.00003	-.03547	-.00213
#2	.02530	-.00045	.00061	.24916	.01095	-.05463	-.00106
#3	.02497	-.00030	.00021	.25040	.00827	-.09375	-.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00405**	**.25782**	**-.00005**	**.02802**	**.00149**	F **-16.187**	**.26632**
Stddev	.01394	.00104	.00012	.01072	.00070	7.671	.00154
%RSD	344.38	.40309	239.02	38.238	47.044	47.391	.57852
#1	.01981	.25891	-.00019	.03352	.00106	-24.995	.26776
#2	-.00102	.25683	.00006	.03488	.00112	-10.973	.26650
#3	-.00665	.25773	-.00003	.01568	.00231	-12.592	.26470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: LCSS 3B Acquired: 2/18/2011 22:10:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356851-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.209**	F **-.14616**	**6.6565**	**-.00324**	**.00650**	**1.1356**	**.00024**
Stddev	3.202	.03376	.4104	.00306	.00165	.1333	.00010
%RSD	5.2310	23.095	6.1648	94.514	25.326	11.742	39.677
#1	-60.325	-.17307	6.1893	-.00668	.00749	1.1233	.00024
#2	-64.760	-.15713	6.9584	-.00222	.00742	1.0088	.00034
#3	-58.542	-.10829	6.8220	-.00082	.00460	1.2746	.00015
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00121**	**.00093**	**.00008**	**.00202**	**.36431**
Stddev	.00008	.00074	.00075	.00047	.00002	.14225
%RSD	77.514	61.087	80.031	630.25	.75130	39.046
#1	-.00008	.00096	.00142	.00056	.00200	.21293
#2	-.00019	.00064	.00131	-.00039	.00202	.38480
#3	-.00004	.00205	.00007	.00006	.00203	.49521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78626.**	**56479.**
Stddev	387.	299.
%RSD	.49205	.52968
#1	78667.	56259.
#2	78991.	56819.
#3	78220.	56359.

Approved: February 21, 2011

Sample Name: L1102036522 Acquired: 2/18/2011 22:14:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00348**	**52.881**	**.03795**	**.04884**	**.49857**	**.00302**	**325.48**
Stddev	.00048	.205	.00276	.00112	.00159	.00004	.96
%RSD	13.746	.38697	7.2842	2.2865	.31982	1.1884	.29508
#1	.00397	52.977	.03798	.04795	.49673	.00302	324.51
#2	.00346	52.646	.03516	.05009	.49937	.00305	325.49
#3	.00302	53.020	.04069	.04847	.49960	.00298	326.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**.02564**	**.07072**	**.19457**	**58.943**	**11.422**	**.06699**
Stddev	.00025	.00031	.00014	.00117	.112	.037	.00376
%RSD	6.5821	1.2025	.20182	.60310	.19002	.32008	5.6185
#1	.00391	.02556	.07077	.19368	58.828	11.399	.06959
#2	.00352	.02539	.07082	.19413	58.952	11.403	.06871
#3	.00399	.02599	.07055	.19590	59.051	11.464	.06267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.151**	**3.6076**	**.00162**	**.53520**	**.06022**	F **5054.9**	**.26518**
Stddev	.068	.0102	.00028	.02012	.00028	15.5	.00132
%RSD	.26025	.28369	17.325	3.7601	.46528	.30737	.49613
#1	26.074	3.5959	.00130	.51209	.05992	5043.1	.26507
#2	26.203	3.6150	.00183	.54470	.06025	5049.3	.26654
#3	26.176	3.6119	.00174	.54882	.06048	5072.5	.26392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036522 Acquired: 2/18/2011 22:14:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-63.154**	F **383.73**	F **-1821.1**	**-.00050**	**.00724**	**58.495**	**.00388**
Stddev	20.278	1.75	4.1	.00181	.00193	.476	.00010
%RSD	32.109	.45729	.22653	363.91	26.714	.81333	2.5338
#1	-60.243	381.98	-1817.8	-.00258	.00919	57.945	.00398
#2	-44.488	383.71	-1819.9	.00052	.00533	58.756	.00378
#3	-84.730	385.49	-1825.7	.00057	.00719	58.782	.00389
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13756**	**.25143**	**.00815**	**.09476**	**.44118**	**18.862**
Stddev	.00024	.00089	.00136	.00081	.00256	.100
%RSD	.17696	.35557	16.631	.85075	.58138	.52980
#1	.13730	.25193	.00806	.09413	.43831	18.972
#2	.13778	.25039	.00684	.09449	.44201	18.840
#3	.13759	.25195	.00955	.09567	.44323	18.776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77365.**	**58605.**
Stddev	483.	330.
%RSD	.62402	.56337
#1	77856.	58644.
#2	77349.	58914.
#3	76891.	58257.

Approved: February 21, 2011

Sample Name: L1102036522PS Acquired: 2/18/2011 22:17:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356976-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19561**	**56.692**	**.23841**	**1.0055**	**.97561**	**.02752**	**323.76**
Stddev	.00059	.469	.00046	.0061	.00386	.00012	1.72
%RSD	.30319	.82800	.19276	.60390	.39548	.45200	.53245
#1	.19591	57.229	.23826	1.0122	.97123	.02766	321.79
#2	.19492	56.489	.23892	1.0003	.97853	.02747	324.47
#3	.19598	56.359	.23804	1.0041	.97706	.02743	325.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02944**	**.12326**	**.30229**	**.42819**	**59.540**	**36.022**	**.56169**
Stddev	.00016	.00027	.00192	.00061	.260	.171	.00537
%RSD	.54707	.21655	.63584	.14308	.43729	.47591	.95647
#1	.02927	.12295	.30437	.42886	59.240	35.841	.55646
#2	.02959	.12345	.30058	.42765	59.664	36.183	.56143
#3	.02944	.12336	.30191	.42808	59.714	36.041	.56720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.496**	**3.7821**	**.50325**	**26.094**	**.30590**	F **4944.7**	**.50637**
Stddev	.152	.0193	.00102	.100	.00766	16.0	.00439
%RSD	.49888	.51130	.20202	.38492	2.5047	.32423	.86742
#1	30.320	3.7605	.50403	25.980	.30080	4929.5	.50131
#2	30.583	3.7882	.50210	26.170	.31471	4961.5	.50913
#3	30.584	3.7977	.50362	26.133	.30218	4943.1	.50868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036522PS Acquired: 2/18/2011 22:17:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356976-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-67.031**	F **377.28**	F **-1790.3**	**.59687**	**.20288**	F **356.95**	**.00464**
Stddev	17.102	1.10	8.0	.00386	.00144	1.31	.00025
%RSD	25.514	.29235	.44783	.64742	.71097	.36804	5.3311
#1	-81.251	376.02	-1781.4	.59553	.20152	355.50	.00492
#2	-48.054	377.74	-1796.9	.60122	.20439	357.28	.00452
#3	-71.787	378.07	-1792.7	.59385	.20273	358.07	.00447
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.61426**	**.75949**	**.24846**	**.56276**	**.92371**	**19.181**
Stddev	.00356	.00352	.00133	.00417	.00882	.280
%RSD	.58020	.46413	.53482	.74124	.95488	1.4593
#1	.61047	.75593	.24756	.56758	.91666	19.477
#2	.61475	.75956	.24783	.56043	.93360	18.920
#3	.61755	.76298	.24999	.56028	.92087	19.147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75959.**	**56423.**
Stddev	358.	79.
%RSD	.47156	.14037
#1	75856.	56482.
#2	75664.	56333.
#3	76358.	56455.

Approved: February 21, 2011

Sample Name: L1102036522SDL Acquired: 2/18/2011 22:21:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356976-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00131**	**11.532**	**.00888**	**.01229**	**.09827**	**.00066**	**64.924**
Stddev	.00092	.149	.00248	.00066	.00052	.00001	.069
%RSD	69.742	1.2938	27.888	5.3539	.53242	.95471	.10658
#1	.00102	11.696	.01128	.01248	.09887	.00066	64.994
#2	.00234	11.494	.00902	.01155	.09792	.00065	64.856
#3	.00058	11.405	.00634	.01283	.09801	.00066	64.922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00511**	**.01459**	**.03898**	**11.804**	**2.2464**	**.01163**
Stddev	.00004	.00028	.00048	.00101	.014	.0368	.00042
%RSD	5.2991	5.4958	3.3213	2.5909	.11765	1.6390	3.6303
#1	.00073	.00503	.01515	.03799	11.816	2.2262	.01189
#2	.00072	.00542	.01434	.04001	11.807	2.2889	.01185
#3	.00079	.00488	.01428	.03896	11.789	2.2241	.01114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3822**	**.73037**	**.00047**	**.15392**	**.01227**	F **968.61**	**.05716**
Stddev	.0222	.00058	.00034	.02585	.00034	12.06	.00155
%RSD	.41219	.07899	72.974	16.796	2.7583	1.2448	2.7119
#1	5.3570	.73088	.00009	.18353	.01266	972.87	.05656
#2	5.3908	.72974	.00076	.14237	.01215	955.00	.05892
#3	5.3989	.73048	.00055	.13585	.01201	977.95	.05600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036522SDL Acquired: 2/18/2011 22:21:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356976-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.738**	F **78.714**	F **-343.53**	**-.00520**	**.00211**	**10.756**	**.00058**
Stddev	18.189	.246	2.53	.00103	.00286	.273	.00010
%RSD	44.649	.31292	.73612	19.740	135.24	2.5359	16.501
#1	-24.565	78.682	-343.62	-.00419	-.00118	10.564	.00050
#2	-37.219	78.485	-340.95	-.00624	.00399	10.636	.00069
#3	-60.429	78.975	-346.01	-.00515	.00352	11.068	.00057
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02722**	**.05014**	**.00327**	**.01938**	**.08961**	**3.3755**
Stddev	.00026	.00327	.00050	.00037	.00009	.1737
%RSD	.96732	6.5155	15.408	1.9160	.10043	5.1455
#1	.02726	.05046	.00271	.01928	.08968	3.5760
#2	.02694	.05324	.00368	.01980	.08951	3.2707
#3	.02746	.04673	.00343	.01908	.08964	3.2798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78488.**	**56292.**
Stddev	159.	570.
%RSD	.20240	1.0121
#1	78658.	55670.
#2	78343.	56418.
#3	78464.	56789.

Approved: February 21, 2011

Sample Name: L1102036522SDL Acquired: 2/18/2011 22:24:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356976-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**2.3964**	**.00575**	**.00113**	**.01956**	**.00013**	**12.994**
Stddev	.00064	.0151	.00218	.00133	.00050	.00002	.038
%RSD	70.245	.63057	37.878	117.28	2.5400	18.880	.29112
#1	.00054	2.3790	.00716	.00177	.01910	.00016	12.953
#2	.00166	2.4040	.00686	-.00039	.02009	.00012	13.027
#3	.00055	2.4063	.00324	.00201	.01950	.00011	13.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00123**	**.00261**	**.00657**	**2.3285**	**.48971**	**-.00056**
Stddev	.00012	.00007	.00025	.00064	.0094	.07807	.00372
%RSD	275.69	5.5648	9.6352	9.7477	.40464	15.943	668.70
#1	.00010	.00129	.00243	.00629	2.3333	.44682	.00319
#2	.00013	.00116	.00290	.00611	2.3344	.44248	-.00061
#3	-.00010	.00125	.00251	.00730	2.3176	.57983	-.00424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1013**	**.14765**	**-.00008**	**.05128**	**.00216**	**184.58**	**.01181**
Stddev	.0164	.00112	.00007	.01465	.00021	10.69	.00083
%RSD	1.4920	.75550	93.287	28.568	9.6257	5.7910	7.0393
#1	1.1061	.14636	-.00008	.03480	.00195	196.16	.01172
#2	1.0831	.14836	.00000	.05619	.00216	182.48	.01102
#3	1.1149	.14822	-.00015	.06284	.00236	175.09	.01267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102036522SDL Acquired: 2/18/2011 22:24:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356976-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-19.676**	F **15.915**	F **-59.350**	**-.00474**	**.00212**	**1.5435**	**.00021**
Stddev	8.533	.051	2.051	.00285	.00141	.1171	.00023
%RSD	43.367	.31900	3.4549	60.270	66.283	7.5843	110.26
#1	-18.967	15.892	-61.369	-.00669	.00375	1.4087	-.00004
#2	-11.520	15.879	-57.269	-.00146	.00135	1.6199	.00041
#3	-28.542	15.973	-59.411	-.00606	.00127	1.6019	.00027
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**.00938**	**.00144**	**.00402**	**.01901**	**.77068**
Stddev	.00005	.00029	.00080	.00040	.00007	.12672
%RSD	.86549	3.1348	55.575	10.071	.35017	16.443
#1	.00547	.00905	.00110	.00359	.01895	.72140
#2	.00540	.00947	.00236	.00439	.01908	.67600
#3	.00538	.00962	.00087	.00407	.01899	.91464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78429.**	**55049.**
Stddev	356.	304.
%RSD	.45381	.55303
#1	78021.	55399.
#2	78591.	54848.
#3	78675.	54900.

Approved: February 21, 2011

Sample Name: L1102036523 Acquired: 2/18/2011 22:28:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00241**	**56.787**	**.03525**	**.04599**	**.63041**	**.00328**	**263.18**
Stddev	.00112	1.180	.00258	.00184	.00684	.00004	3.85
%RSD	46.640	2.0778	7.3236	4.0037	1.0853	1.2294	1.4647
#1	.00312	55.770	.03387	.04432	.62317	.00326	259.23
#2	.00299	56.511	.03366	.04569	.63129	.00326	263.38
#3	.00111	58.081	.03823	.04796	.63677	.00333	266.93
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00361**	**.02701**	**.06734**	**.22056**	**63.955**	**14.552**	**.06292**
Stddev	.00022	.00036	.00153	.00520	.810	.211	.00154
%RSD	6.1560	1.3500	2.2744	2.3590	1.2664	1.4521	2.4525
#1	.00338	.02665	.06624	.21559	63.121	14.314	.06177
#2	.00362	.02700	.06669	.22012	64.007	14.627	.06231
#3	.00383	.02738	.06909	.22597	64.738	14.716	.06467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.427**	**3.3815**	**.00151**	**.45798**	**.05974**	F **5758.6**	**.25784**
Stddev	.350	.0451	.00029	.01064	.00116	92.3	.00472
%RSD	1.4343	1.3344	19.007	2.3243	1.9496	1.6021	1.8315
#1	24.065	3.3347	.00131	.46960	.05880	5671.4	.25275
#2	24.452	3.3851	.00184	.45564	.05939	5749.3	.25869
#3	24.764	3.4247	.00138	.44870	.06104	5855.2	.26209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036523 Acquired: 2/18/2011 22:28:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-53.677**	F **321.79**	F **-1265.7**	**.00021**	**.00578**	**63.038**	**.00473**
Stddev	11.204	6.26	21.3	.00160	.00477	1.191	.00015
%RSD	20.873	1.9456	1.6800	747.16	82.622	1.8888	3.1199
#1	-40.742	315.64	-1250.5	-.00053	.00930	62.045	.00456
#2	-60.364	321.56	-1256.6	.00205	.00034	62.711	.00482
#3	-59.924	328.16	-1290.0	-.00088	.00770	64.358	.00480
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18353**	**.16012**	**.00677**	**.09470**	**.43999**	**21.102**
Stddev	.00275	.00249	.00144	.00120	.00860	.563
%RSD	1.4962	1.5538	21.226	1.2718	1.9542	2.6684
#1	.18056	.15755	.00526	.09389	.43174	21.257
#2	.18406	.16029	.00693	.09413	.43931	20.478
#3	.18598	.16251	.00812	.09609	.44890	21.572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77171.**	**57100.**
Stddev	478.	535.
%RSD	.61889	.93699
#1	77632.	57414.
#2	77204.	57403.
#3	76678.	56482.

Approved: February 21, 2011

Sample Name: L1102036524 Acquired: 2/18/2011 22:31:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00485**	**54.215**	**.03693**	**.06417**	**.57609**	**.00265**	**460.88**
Stddev	.00061	.960	.00133	.00036	.00559	.00002	5.37
%RSD	12.577	1.7710	3.5952	.55943	.96961	.70046	1.1645
#1	.00492	53.106	.03540	.06411	.56999	.00263	455.19
#2	.00542	54.787	.03778	.06385	.57731	.00264	461.59
#3	.00421	54.751	.03761	.06456	.58096	.00267	465.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00473**	**.02588**	**.07138**	**.32656**	**58.794**	**13.699**	**.07447**
Stddev	.00017	.00047	.00170	.00505	.563	.131	.00268
%RSD	3.5617	1.8017	2.3754	1.5464	.95778	.95655	3.5944
#1	.00462	.02535	.06980	.32182	58.208	13.564	.07467
#2	.00493	.02615	.07118	.32599	58.843	13.708	.07170
#3	.00466	.02616	.07317	.33187	59.331	13.826	.07705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.450**	**3.0851**	**.01089**	**.45357**	**.05849**	F **14405.**	**.28389**
Stddev	.276	.0308	.00021	.01091	.00190	258.	.00459
%RSD	1.1772	.99807	1.9701	2.4060	3.2491	1.7889	1.6158
#1	23.161	3.0546	.01064	.44109	.05702	14135.	.27967
#2	23.477	3.0845	.01104	.46131	.05781	14432.	.28323
#3	23.712	3.1162	.01098	.45831	.06063	14649.	.28877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036524 Acquired: 2/18/2011 22:31:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-79.175**	F **544.14**	F **-1837.7**	**.00192**	**.00481**	**66.242**	**.01282**
Stddev	22.779	8.79	21.6	.00046	.00229	1.228	.00048
%RSD	28.770	1.6158	1.1776	24.076	47.667	1.8537	3.7819
#1	-94.667	535.81	-1818.3	.00238	.00557	65.202	.01283
#2	-89.837	543.28	-1833.8	.00146	.00224	65.929	.01233
#3	-53.020	553.33	-1861.0	.00192	.00663	67.597	.01330
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31784**	**.36894**	**.00765**	**.10024**	**.61667**	**24.684**
Stddev	.00270	.00521	.00066	.00224	.00998	.304
%RSD	.85029	1.4108	8.6925	2.2354	1.6178	1.2328
#1	.31500	.36540	.00803	.09781	.60676	24.332
#2	.31815	.36651	.00804	.10070	.61652	24.862
#3	.32037	.37492	.00688	.10222	.62671	24.856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77178.**	**58429.**
Stddev	422.	788.
%RSD	.54629	1.3479
#1	77556.	59312.
#2	77255.	57801.
#3	76723.	58173.

Approved: February 21, 2011

Sample Name: L1102036525 Acquired: 2/18/2011 22:35:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00450**	**67.759**	**.06276**	**.06457**	**.58949**	**.00313**	**228.08**
Stddev	.00035	.142	.00196	.00040	.00846	.00002	2.95
%RSD	7.8044	.20948	3.1166	.61833	1.4359	.68153	1.2938
#1	.00480	67.786	.06057	.06447	.58030	.00311	224.91
#2	.00458	67.605	.06434	.06500	.59118	.00315	228.59
#3	.00411	67.885	.06337	.06422	.59697	.00312	230.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00537**	**.02866**	**.08304**	**.33536**	**69.566**	**17.683**	**.07174**
Stddev	.00022	.00060	.00023	.00772	.939	.184	.00139
%RSD	4.1677	2.0930	.27245	2.3027	1.3505	1.0388	1.9349
#1	.00512	.02837	.08330	.32786	68.545	17.481	.07015
#2	.00547	.02825	.08291	.33493	69.759	17.727	.07237
#3	.00553	.02934	.08291	.34328	70.394	17.840	.07271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.233**	**3.9686**	**.00261**	**.24114**	**.06817**	F **9843.4**	**.37553**
Stddev	.387	.0554	.00037	.01604	.00183	190.8	.00683
%RSD	1.3715	1.3963	14.142	6.6507	2.6876	1.9385	1.8183
#1	27.818	3.9084	.00284	.23381	.06609	9649.0	.37200
#2	28.296	3.9798	.00281	.23008	.06885	9850.9	.37120
#3	28.585	4.0176	.00219	.25953	.06956	10030.	.38341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036525 Acquired: 2/18/2011 22:35:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-53.363**	F **330.39**	F **-2848.6**	**.00031**	**.00776**	**53.455**	**.00769**
Stddev	9.449	6.95	55.0	.00120	.00489	1.137	.00033
%RSD	17.706	2.1028	1.9298	393.68	63.026	2.1263	4.2480
#1	-50.224	323.65	-2791.8	.00160	.01212	52.574	.00756
#2	-45.884	330.00	-2852.3	.00010	.00247	53.054	.00745
#3	-63.982	337.53	-2901.6	-.00078	.00869	54.738	.00806
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15793**	**.42918**	**.00797**	**.10481**	**.76372**	**32.271**
Stddev	.00176	.00826	.00154	.00060	.01669	.307
%RSD	1.1160	1.9257	19.276	.56771	2.1852	.95172
#1	.15595	.41975	.00625	.10511	.74767	32.621
#2	.15850	.43258	.00844	.10413	.76250	32.140
#3	.15933	.43520	.00921	.10520	.78098	32.050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76137.**	**56529.**
Stddev	415.	320.
%RSD	.54513	.56692
#1	76190.	56172.
#2	76523.	56622.
#3	75698.	56793.

Approved: February 21, 2011

Sample Name: L1102036526 Acquired: 2/18/2011 22:38:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00509**	**72.732**	**.04683**	**.05854**	**.57465**	**.00352**	**298.26**
Stddev	.00020	.902	.00232	.00099	.00658	.00006	2.89
%RSD	3.9500	1.2402	4.9572	1.6835	1.1443	1.7372	.97052
#1	.00487	71.713	.04417	.05758	.56808	.00347	295.52
#2	.00527	73.427	.04845	.05849	.57463	.00352	297.99
#3	.00514	73.056	.04787	.05955	.58123	.00359	301.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**.03136**	**.09702**	**.16160**	**71.268**	**16.868**	**.08054**
Stddev	.00007	.00083	.00157	.00494	.887	.122	.00072
%RSD	1.6110	2.6366	1.6219	3.0582	1.2442	.72235	.89822
#1	.00436	.03047	.09521	.15649	70.433	16.767	.08131
#2	.00450	.03149	.09809	.16197	71.174	16.835	.07988
#3	.00442	.03211	.09776	.16635	72.199	17.003	.08043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.533**	**4.1637**	**.00129**	**.35047**	**.07979**	F **6093.4**	**.28310**
Stddev	.358	.0403	.00021	.00416	.00234	123.6	.00714
%RSD	1.2118	.96675	16.157	1.1863	2.9265	2.0284	2.5237
#1	29.179	4.1287	.00147	.35496	.07729	5967.3	.27604
#2	29.525	4.1548	.00134	.34970	.08018	6098.5	.28294
#3	29.895	4.2077	.00106	.34676	.08191	6214.4	.29032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036526 Acquired: 2/18/2011 22:38:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-74.693**	F **368.14**	F **-1423.1**	**.00033**	**.00502**	**64.876**	**.00441**
Stddev	6.899	8.84	34.4	.00104	.00412	1.629	.00025
%RSD	9.2368	2.4009	2.4195	315.85	81.985	2.5104	5.6805
#1	-80.930	359.46	-1389.5	.00037	.00849	63.366	.00457
#2	-67.282	367.83	-1421.3	-.00073	.00611	64.661	.00453
#3	-75.868	377.13	-1458.3	.00134	.00047	66.602	.00412
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14116**	**.49521**	**.00976**	**.12133**	**.55984**	**30.241**
Stddev	.00097	.00554	.00036	.00157	.01364	.289
%RSD	.68677	1.1184	3.6551	1.2949	2.4361	.95454
#1	.14033	.48884	.00946	.11956	.54661	29.930
#2	.14092	.49802	.00966	.12183	.55906	30.292
#3	.14223	.49879	.01015	.12258	.57385	30.500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78389.**	**59208.**
Stddev	434.	245.
%RSD	.55391	.41459
#1	78497.	59354.
#2	78759.	58925.
#3	77911.	59346.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 22:42:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.36582**	**9.2036**	**.38495**	**.45390**	**.94975**	**.04657**	**9.5131**
Stddev	.00185	.0575	.00326	.00145	.00334	.00034	.0283
%RSD	.50586	.62425	.84629	.32005	.35196	.72574	.29726
#1	.36370	9.1376	.38165	.45309	.94651	.04618	9.4809
#2	.36709	9.2305	.38502	.45304	.95319	.04677	9.5249
#3	.36667	9.2426	.38816	.45558	.94956	.04675	9.5336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04914**	**.19523**	**.46310**	**.47516**	**3.8080**	**47.494**	**.95517**
Stddev	.00002	.00028	.00388	.00191	.0243	.217	.00866
%RSD	.05001	.14289	.83816	.40203	.63837	.45611	.90674
#1	.04914	.19543	.45867	.47401	3.7831	47.256	.94717
#2	.04912	.19491	.46469	.47411	3.8316	47.681	.96437
#3	.04917	.19536	.46593	.47736	3.8092	47.545	.95396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5460**	**.47961**	**.95171**	**47.884**	**.48508**	**9.2602**	**.50111**
Stddev	.0581	.00232	.00188	.163	.00072	5.2048	.00077
%RSD	.60899	.48467	.19767	.34069	.14778	56.206	.15451
#1	9.4823	.47693	.95068	47.711	.48583	5.6670	.50159
#2	9.5592	.48074	.95058	48.035	.48440	6.8847	.50153
#3	9.5963	.48115	.95389	47.905	.48503	15.229	.50022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 22:42:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.792**	**9.6305**	F **16.046**	**1.1664**	**.38525**	F **3.9795**	**.96773**
Stddev	15.814	.0846	.960	.0034	.00241	.0994	.00031
%RSD	27.365	.87882	5.9833	.28749	.62440	2.4982	.03166
#1	-76.051	9.7282	16.999	1.1664	.38702	3.8710	.96741
#2	-48.443	9.5797	15.079	1.1631	.38251	4.0662	.96777
#3	-48.881	9.5836	16.060	1.1698	.38621	4.0013	.96802
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93655**	**.99855**	**.48888**	**.90558**	**.96148**	F **1.6386**
Stddev	.00208	.00384	.00192	.00488	.00142	.1505
%RSD	.22216	.38451	.39235	.53899	.14788	9.1850
#1	.93441	.99413	.48667	.90028	.96091	1.6271
#2	.93857	1.0005	.49010	.90657	.96044	1.7945
#3	.93668	1.0011	.48986	.90989	.96310	1.4942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78231.**	**57738.**
Stddev	224.	385.
%RSD	.28695	.66753
#1	78129.	58171.
#2	78488.	57432.
#3	78075.	57610.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 22:45:55 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.01306**	**.00140**	**-.00063**	**-.00072**	**.00005**	**-.00548**
Stddev	.00039	.00035	.00183	.00088	.00012	.00001	.00919
%RSD	154.06	2.7044	130.77	140.04	17.228	27.338	167.65
#1	-.00051	-.01313	-.00071	.00023	-.00058	.00007	-.00149
#2	.00019	-.01268	.00240	-.00058	-.00076	.00004	.00103
#3	-.00044	-.01338	.00250	-.00152	-.00082	.00005	-.01600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00002**	**-.00029**	**-.00091**	**.00035**	**.03336**	**-.00235**
Stddev	.00011	.00006	.00039	.00097	.00314	.04175	.00098
%RSD	867.35	280.70	131.20	106.56	891.41	125.15	41.477
#1	.00001	-.00007	.00007	-.00072	-.00253	.00205	-.00346
#2	.00012	-.00004	-.00070	-.00005	.00370	.01727	-.00161
#3	-.00009	.00004	-.00025	-.00197	-.00011	.08075	-.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00906**	**.00056**	**.00029**	**.02723**	**.00020**	F **-8.8117**	**.00093**
Stddev	.00901	.00029	.00019	.01663	.00047	9.6418	.00114
%RSD	99.492	50.792	67.067	61.087	238.22	109.42	123.02
#1	-.01867	.00029	.00007	.02155	.00024	-16.064	.00014
#2	-.00081	.00054	.00034	.04595	-.00029	-12.501	.00223
#3	-.00769	.00086	.00045	.01417	.00064	2.1299	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 22:45:55 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.648**	F **-.21389**	F **6.4790**	**-.00340**	**.00257**	**.21893**	**.00061**
Stddev	1.615	.07297	3.1304	.00224	.00622	.03165	.00017
%RSD	5.2698	34.115	48.316	65.807	241.85	14.456	27.824
#1	-29.429	-.16371	4.4828	-.00598	.00944	.20771	.00051
#2	-32.480	-.29760	4.8673	-.00201	.00092	.19442	.00053
#3	-30.034	-.18037	10.087	-.00221	-.00265	.25466	.00081
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00146**	**.00182**	**.00032**	**.00017**	F **.57504**
Stddev	.00010	.00167	.00008	.00020	.00002	.05808
%RSD	55.006	114.20	4.4447	63.661	14.107	10.101
#1	-.00017	.00046	.00176	.00047	.00015	.54279
#2	-.00008	-.00231	.00191	.00040	.00019	.54024
#3	-.00027	-.00253	.00179	.00009	.00018	.64209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76614.**	**55391.**
Stddev	263.	265.
%RSD	.34300	.47909
#1	76903.	55690.
#2	76390.	55186.
#3	76548.	55295.

Approved: February 21, 2011

Sample Name: L1102036527 Acquired: 2/18/2011 22:49:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00433**	**60.681**	**.03799**	**.05903**	**.59187**	**.00331**	**226.91**
Stddev	.00058	.345	.00045	.00172	.00375	.00002	2.06
%RSD	13.416	.56833	1.1749	2.9088	.63367	.63714	.90571
#1	.00434	60.283	.03848	.05711	.58796	.00330	224.66
#2	.00491	60.854	.03785	.05957	.59222	.00333	227.36
#3	.00375	60.904	.03762	.06041	.59544	.00329	228.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00493**	**.02732**	**.08197**	**.26535**	**65.032**	**16.873**	**.06385**
Stddev	.00011	.00051	.00019	.00533	.493	.185	.00055
%RSD	2.2561	1.8646	.23587	2.0100	.75851	1.0944	.86504
#1	.00488	.02692	.08201	.26039	64.496	16.693	.06322
#2	.00486	.02715	.08176	.26465	65.132	16.864	.06411
#3	.00506	.02790	.08215	.27099	65.467	17.062	.06423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.126**	**4.1492**	**.00221**	**.49049**	**.06779**	F **16280.**	**.34755**
Stddev	.196	.0335	.00044	.01802	.00072	259.	.00725
%RSD	.72385	.80703	19.836	3.6744	1.0594	1.5928	2.0850
#1	26.942	4.1147	.00196	.48987	.06763	16061.	.34140
#2	27.102	4.1515	.00195	.50882	.06717	16214.	.34572
#3	27.333	4.1815	.00271	.47279	.06858	16566.	.35554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036527 Acquired: 2/18/2011 22:49:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-53.855**	F **303.92**	F **-2212.3**	**.00040**	**.00718**	**51.546**	**.00610**
Stddev	14.914	4.53	37.4	.00196	.00254	.638	.00030
%RSD	27.694	1.4902	1.6917	485.51	35.388	1.2370	4.9270
#1	-55.430	299.69	-2177.7	-.00070	.01003	51.081	.00577
#2	-38.215	303.37	-2207.3	.00267	.00513	51.284	.00635
#3	-67.919	308.70	-2252.0	-.00076	.00640	52.273	.00619
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14350**	**.30008**	**.00791**	**.09914**	**.63654**	**26.647**
Stddev	.00133	.00216	.00069	.00041	.01033	.128
%RSD	.92445	.71938	8.7747	.41569	1.6223	.47882
#1	.14203	.29933	.00830	.09897	.62730	26.594
#2	.14386	.29839	.00711	.09961	.63465	26.554
#3	.14461	.30251	.00833	.09884	.64769	26.792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78407.**	**56623.**
Stddev	179.	237.
%RSD	.22782	.41927
#1	78403.	56890.
#2	78587.	56546.
#3	78230.	56434.

Approved: February 21, 2011

Sample Name: L1102036528 Acquired: 2/18/2011 22:53:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356851-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00472**	**72.170**	**.04205**	**.05698**	**.54175**	**.00374**	**286.47**
Stddev	.00102	.671	.00282	.00204	.00615	.00002	3.77
%RSD	21.691	.93000	6.7045	3.5832	1.1344	.47453	1.3164
#1	.00545	71.661	.03924	.05483	.53534	.00371	282.74
#2	.00355	71.917	.04205	.05722	.54230	.00375	286.40
#3	.00517	72.930	.04487	.05889	.54760	.00374	290.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**.02965**	**.09209**	**.14113**	**68.435**	**15.992**	**.07699**
Stddev	.00016	.00046	.00104	.00365	.868	.171	.00249
%RSD	3.9817	1.5684	1.1324	2.5853	1.2689	1.0706	3.2342
#1	.00415	.02914	.09104	.13728	67.567	15.803	.07419
#2	.00393	.02974	.09209	.14158	68.434	16.038	.07782
#3	.00425	.03006	.09313	.14453	69.303	16.136	.07896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.528**	**3.9680**	**.00117**	**.64940**	**.07555**	F **8841.6**	**.25758**
Stddev	.363	.0452	.00019	.01363	.00249	163.9	.00338
%RSD	1.2728	1.1383	16.064	2.0991	3.2959	1.8542	1.3116
#1	28.152	3.9216	.00116	.64914	.07338	8679.4	.25394
#2	28.556	3.9705	.00098	.63589	.07500	8838.0	.25820
#3	28.877	4.0119	.00135	.66315	.07827	9007.3	.26061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036528 Acquired: 2/18/2011 22:53:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356851-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.590**	F **350.04**	F **-1316.4**	**-.00050**	**.00501**	**69.219**	**.00462**
Stddev	11.575	7.10	32.2	.00426	.00450	1.439	.00029
%RSD	18.793	2.0271	2.4494	858.88	89.715	2.0790	6.2770
#1	-60.799	343.05	-1286.1	.00441	-.00011	67.981	.00444
#2	-73.539	349.82	-1312.9	-.00266	.00683	68.879	.00446
#3	-50.430	357.24	-1350.3	-.00325	.00832	70.798	.00495
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13575**	**.32937**	**.00754**	**.11347**	**.55148**	**23.775**
Stddev	.00169	.00675	.00050	.00098	.01143	.219
%RSD	1.2447	2.0496	6.6160	.86148	2.0732	.92274
#1	.13415	.32274	.00795	.11253	.53992	23.530
#2	.13558	.32913	.00698	.11342	.55174	23.953
#3	.13751	.33624	.00768	.11448	.56278	23.844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77337.**	**57460.**
Stddev	218.	111.
%RSD	.28155	.19296
#1	77089.	57384.
#2	77428.	57587.
#3	77495.	57409.

Approved: February 21, 2011

Sample Name: L1102036529S Acquired: 2/18/2011 22:56:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356851-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04512**	**85.828**	**.09095**	**.07408**	**.63470**	**.00362**	**325.76**
Stddev	.00084	1.296	.00208	.00073	.00756	.00003	3.40
%RSD	1.8612	1.5097	2.2824	.98785	1.1907	.69873	1.0442
#1	.04597	84.732	.08948	.07365	.62686	.00363	322.06
#2	.04429	87.258	.09004	.07493	.63530	.00359	326.46
#3	.04510	85.494	.09333	.07367	.64194	.00364	328.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01026**	**.03403**	**.10971**	**.21813**	**81.785**	**19.475**	**.09086**
Stddev	.00015	.00071	.00059	.00329	1.002	.227	.00379
%RSD	1.4589	2.0983	.53513	1.5089	1.2249	1.1650	4.1671
#1	.01013	.03325	.10930	.21490	80.725	19.223	.08713
#2	.01022	.03417	.11038	.21800	81.913	19.539	.09075
#3	.01042	.03466	.10944	.22148	82.716	19.663	.09470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.213**	**4.5995**	**.00153**	**.74066**	**.08616**	F **9975.5**	**.34322**
Stddev	.412	.0541	.00030	.02045	.00164	143.7	.00491
%RSD	1.2408	1.1754	19.853	2.7614	1.9035	1.4400	1.4315
#1	32.771	4.5431	.00129	.72146	.08435	9843.2	.33878
#2	33.282	4.6043	.00188	.76217	.08657	9954.9	.34239
#3	33.586	4.6509	.00143	.73835	.08756	10128.	.34850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036529S Acquired: 2/18/2011 22:56:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356851-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.044**	F **392.61**	F **-1528.8**	**.00132**	**.00445**	**75.499**	**.00518**
Stddev	3.452	5.87	18.8	.00176	.00233	1.327	.00012
%RSD	4.7912	1.4949	1.2326	133.59	52.368	1.7572	2.3455
#1	-68.348	386.98	-1509.8	-.00066	.00282	74.359	.00506
#2	-72.599	392.15	-1529.1	.00271	.00711	75.181	.00520
#3	-75.185	398.69	-1547.5	.00190	.00340	76.955	.00530
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15956**	**.65155**	**.01016**	**.14168**	**.63523**	**28.257**
Stddev	.00173	.00744	.00113	.00034	.00894	.330
%RSD	1.0867	1.1416	11.077	.24228	1.4078	1.1686
#1	.15772	.64308	.01080	.14129	.62627	27.932
#2	.15981	.65454	.00886	.14194	.63526	28.246
#3	.16116	.65703	.01082	.14181	.64416	28.592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76638.**	**57591.**
Stddev	355.	354.
%RSD	.46329	.61383
#1	76975.	57470.
#2	76672.	57313.
#3	76267.	57988.

Approved: February 21, 2011

Sample Name: L1102036530SD Acquired: 2/18/2011 23:00:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356851-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04309**	**65.110**	**.08641**	**.05077**	**.57998**	**.00422**	**304.32**
Stddev	.00062	.335	.00215	.00051	.00768	.00005	4.06
%RSD	1.4482	.51492	2.4859	.99780	1.3250	1.1407	1.3340
#1	.04282	64.775	.08393	.05126	.57197	.00420	300.33
#2	.04380	65.109	.08779	.05080	.58066	.00417	304.17
#3	.04264	65.446	.08750	.05025	.58730	.00427	308.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01015**	**.03203**	**.08702**	**.20285**	**68.126**	**15.001**	**.07676**
Stddev	.00035	.00038	.00083	.00352	.873	.199	.00130
%RSD	3.4808	1.1986	.95833	1.7335	1.2811	1.3235	1.6996
#1	.00984	.03166	.08606	.19949	67.188	14.798	.07695
#2	.01008	.03199	.08741	.20254	68.277	15.012	.07538
#3	.01053	.03243	.08758	.20650	68.913	15.194	.07797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.064**	**4.3678**	**.00111**	**.64875**	**.07844**	F **9271.7**	**.32180**
Stddev	.381	.0548	.00055	.01025	.00188	189.1	.00766
%RSD	1.3100	1.2550	49.201	1.5792	2.3920	2.0398	2.3791
#1	28.686	4.3114	.00049	.63780	.07669	9094.7	.31525
#2	29.059	4.3711	.00152	.65036	.07821	9249.3	.31992
#3	29.448	4.4208	.00132	.65810	.08042	9471.0	.33021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036530SD Acquired: 2/18/2011 23:00:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356851-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.547**	F **367.09**	F **-1367.9**	**-.00049**	**.00273**	**84.172**	**.00433**
Stddev	17.552	7.28	17.9	.00239	.00130	1.657	.00029
%RSD	33.403	1.9824	1.3061	489.95	47.836	1.9691	6.6211
#1	-37.164	359.87	-1351.3	-.00300	.00124	82.722	.00414
#2	-48.810	366.97	-1365.6	.00176	.00369	83.815	.00419
#3	-71.667	374.42	-1386.8	-.00022	.00325	85.979	.00466
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14127**	**.18578**	**.00903**	**.11053**	**.55430**	**21.751**
Stddev	.00204	.00187	.00094	.00064	.01129	.145
%RSD	1.4413	1.0046	10.381	.57784	2.0369	.66559
#1	.13933	.18599	.00795	.10988	.54298	21.584
#2	.14108	.18382	.00948	.11055	.55437	21.840
#3	.14339	.18753	.00965	.11116	.56556	21.830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75532.**	**56521.**
Stddev	343.	187.
%RSD	.45374	.32998
#1	75902.	56311.
#2	75469.	56585.
#3	75225.	56667.

Approved: February 21, 2011

Sample Name: L1102036531 Acquired: 2/18/2011 23:03:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00372**	**65.947**	**.04005**	**.04947**	**.58237**	**.00371**	**229.37**
Stddev	.00075	.201	.00221	.00110	.00208	.00001	.87
%RSD	20.058	.30525	5.5121	2.2155	.35698	.27274	.37915
#1	.00292	66.132	.03913	.04964	.58128	.00370	228.65
#2	.00439	65.733	.04257	.04830	.58107	.00370	229.13
#3	.00385	65.977	.03845	.05047	.58477	.00372	230.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00427**	**.02886**	**.07894**	**.31073**	**69.530**	**17.173**	**.07138**
Stddev	.00012	.00033	.00005	.00245	.242	.058	.00354
%RSD	2.8559	1.1317	.06204	.78777	.34762	.33496	4.9650
#1	.00431	.02879	.07888	.30835	69.295	17.137	.07515
#2	.00437	.02858	.07895	.31060	69.517	17.144	.07089
#3	.00414	.02922	.07898	.31324	69.778	17.240	.06811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.805**	**3.8806**	**.00142**	**.20654**	**.06565**	F **6494.2**	**.26789**
Stddev	.053	.0083	.00024	.00491	.00006	26.7	.00222
%RSD	.18306	.21259	16.833	2.3764	.09596	.41046	.82976
#1	28.753	3.8724	.00150	.20861	.06560	6466.5	.27011
#2	28.803	3.8805	.00115	.21008	.06572	6496.4	.26789
#3	28.858	3.8889	.00161	.20094	.06564	6519.7	.26567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036531 Acquired: 2/18/2011 23:03:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.458**	F **274.87**	F **-1342.7**	**-.00122**	**.00385**	**57.929**	**.00588**
Stddev	12.754	2.04	11.6	.00247	.00079	.621	.00057
%RSD	29.347	.74223	.86042	202.63	20.433	1.0721	9.6526
#1	-35.341	272.61	-1333.3	-.00247	.00459	57.260	.00595
#2	-36.875	275.45	-1339.2	-.00280	.00302	58.041	.00528
#3	-58.158	276.56	-1355.6	.00162	.00394	58.487	.00641
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13258**	**.24827**	**.00749**	**.09981**	**.72683**	**27.776**
Stddev	.00062	.00099	.00036	.00071	.00451	.302
%RSD	.47091	.39824	4.7408	.71223	.62027	1.0868
#1	.13210	.24941	.00719	.09993	.72208	27.985
#2	.13235	.24769	.00788	.09905	.72737	27.430
#3	.13329	.24771	.00739	.10046	.73105	27.913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76971.**	**56740.**
Stddev	287.	114.
%RSD	.37333	.20028
#1	77295.	56611.
#2	76870.	56825.
#3	76748.	56783.

Approved: February 21, 2011

Sample Name: L1102036532 Acquired: 2/18/2011 23:07:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00468**	**78.748**	**.04826**	**.05491**	**.58871**	**.00405**	**265.98**
Stddev	.00136	1.188	.00052	.00178	.01026	.00006	3.94
%RSD	29.066	1.5086	1.0815	3.2360	1.7421	1.4823	1.4800
#1	.00615	78.056	.04846	.05338	.57788	.00399	261.82
#2	.00347	78.069	.04767	.05449	.58998	.00404	266.47
#3	.00441	80.120	.04865	.05686	.59828	.00411	269.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**.03287**	**.10292**	**.16633**	**73.162**	**16.939**	**.08174**
Stddev	.00002	.00081	.00180	.00509	1.345	.247	.00158
%RSD	.36662	2.4623	1.7530	3.0588	1.8390	1.4557	1.9359
#1	.00454	.03208	.10117	.16217	71.760	16.659	.08060
#2	.00456	.03283	.10281	.16482	73.283	17.034	.08354
#3	.00458	.03369	.10477	.17201	74.442	17.124	.08107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.285**	**4.3991**	**.00077**	**.22553**	**.08323**	F **5205.1**	**.27566**
Stddev	.499	.0659	.00023	.02106	.00261	114.6	.00709
%RSD	1.5441	1.4991	29.348	9.3392	3.1320	2.2010	2.5704
#1	31.792	4.3298	.00060	.20940	.08117	5094.3	.26821
#2	32.275	4.4066	.00069	.21783	.08236	5197.9	.27644
#3	32.789	4.4611	.00103	.24936	.08616	5323.0	.28232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036532 Acquired: 2/18/2011 23:07:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.702**	F **324.02**	F **-967.98**	**.00183**	**.00555**	**75.906**	**.00450**
Stddev	14.680	7.34	19.78	.00028	.00072	1.512	.00017
%RSD	28.954	2.2645	2.0436	15.307	12.951	1.9920	3.7876
#1	-37.287	316.69	-946.64	.00152	.00519	74.404	.00447
#2	-48.435	324.01	-971.60	.00206	.00638	75.887	.00434
#3	-66.384	331.36	-985.70	.00191	.00509	77.428	.00468
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12478**	**.41128**	**.00934**	**.12017**	**.58395**	**33.723**
Stddev	.00165	.00491	.00112	.00201	.01389	.864
%RSD	1.3223	1.1928	11.949	1.6725	2.3789	2.5618
#1	.12301	.40656	.00930	.11823	.56997	32.980
#2	.12504	.41091	.00824	.12004	.58413	33.518
#3	.12628	.41635	.01047	.12224	.59775	34.671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75365.**	**55865.**
Stddev	130.	274.
%RSD	.17225	.49123
#1	75447.	56024.
#2	75433.	56024.
#3	75215.	55548.

Approved: February 21, 2011

Sample Name: L1102036533 Acquired: 2/18/2011 23:10:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00416**	**63.913**	**.04528**	**.05549**	**.59633**	**.00347**	**242.08**
Stddev	.00095	.816	.00190	.00145	.00723	.00006	2.43
%RSD	22.911	1.2767	4.1893	2.6125	1.2127	1.7502	1.0051
#1	.00382	63.435	.04450	.05415	.58925	.00343	239.53
#2	.00343	63.449	.04390	.05703	.59604	.00343	242.33
#3	.00524	64.855	.04744	.05528	.60370	.00354	244.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00467**	**.02856**	**.08176**	**.30123**	**69.173**	**17.962**	**.07187**
Stddev	.00015	.00030	.00051	.00447	.784	.218	.00487
%RSD	3.2097	1.0589	.62696	1.4839	1.1339	1.2162	6.7765
#1	.00450	.02824	.08179	.29699	68.339	17.756	.06625
#2	.00478	.02862	.08124	.30081	69.284	17.938	.07454
#3	.00474	.02884	.08226	.30590	69.896	18.191	.07481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.053**	**3.8601**	**.00213**	**1.3704**	**.06957**	F **15859.**	**.29555**
Stddev	.253	.0371	.00047	.0407	.00099	196.	.00292
%RSD	.97191	.96141	21.892	2.9681	1.4161	1.2330	.98824
#1	25.787	3.8191	.00250	1.3322	.06879	15674.	.29349
#2	26.080	3.8700	.00228	1.3659	.06924	15839.	.29428
#3	26.291	3.8913	.00161	1.4132	.07067	16064.	.29890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036533 Acquired: 2/18/2011 23:10:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.942**	F **326.77**	F **-2427.9**	**-.00198**	**.00815**	**63.057**	**.00586**
Stddev	17.189	4.53	34.5	.00146	.00442	.785	.00092
%RSD	33.743	1.3870	1.4206	73.955	54.216	1.2443	15.751
#1	-55.994	322.23	-2390.8	-.00115	.01196	62.339	.00577
#2	-65.038	326.78	-2434.1	-.00112	.00331	62.939	.00682
#3	-31.792	331.30	-2458.9	-.00366	.00920	63.895	.00498
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14590**	**.30200**	**.00679**	**.10086**	**.59198**	**30.989**
Stddev	.00177	.00316	.00264	.00081	.00778	.639
%RSD	1.2164	1.0451	38.874	.80044	1.3147	2.0606
#1	.14392	.29847	.00379	.10071	.58410	30.522
#2	.14642	.30302	.00781	.10014	.59218	30.728
#3	.14736	.30453	.00877	.10173	.59966	31.716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76712.**	**56919.**
Stddev	132.	262.
%RSD	.17219	.46022
#1	76708.	56750.
#2	76847.	57220.
#3	76582.	56786.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 23:14:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39119**	**9.7952**	**.40530**	**.48531**	**1.0089**	**.04955**	**10.042**
Stddev	.00261	.1105	.00266	.00356	.0007	.00046	.009
%RSD	.66610	1.1278	.65543	.73388	.06999	.92905	.09003
#1	.39149	9.8126	.40730	.48668	1.0083	.04946	10.049
#2	.39363	9.8959	.40228	.48799	1.0088	.05005	10.032
#3	.38845	9.6770	.40631	.48127	1.0096	.04915	10.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05184**	**.20542**	**.49386**	**.50134**	**4.0335**	**50.466**	**1.0151**
Stddev	.00035	.00074	.00373	.00052	.0111	.071	.0018
%RSD	.67439	.35860	.75503	.10389	.27385	.14130	.18085
#1	.05149	.20470	.49293	.50188	4.0234	50.386	1.0131
#2	.05185	.20540	.49797	.50085	4.0318	50.486	1.0166
#3	.05218	.20617	.49069	.50128	4.0453	50.525	1.0155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.127**	**.50771**	**1.0030**	**50.858**	**.51112**	F **8.1311**	**.52758**
Stddev	.013	.00173	.0007	.048	.00064	2.6700	.00402
%RSD	.12662	.34030	.07352	.09460	.12442	32.836	.76105
#1	10.117	.50648	1.0036	50.806	.51106	5.1825	.52431
#2	10.123	.50697	1.0022	50.902	.51052	10.385	.52636
#3	10.141	.50969	1.0032	50.866	.51178	8.8256	.53206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 23:14:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.520**	**10.154**	F **14.378**	**1.2293**	**.40837**	F **4.2385**	**1.0179**
Stddev	8.695	.079	2.198	.0046	.00343	.0720	.0013
%RSD	21.458	.77531	15.290	.37018	.83900	1.6986	.12765
#1	-43.023	10.066	12.776	1.2262	.40577	4.1917	1.0176
#2	-30.849	10.216	13.473	1.2272	.40708	4.3214	1.0168
#3	-47.690	10.181	16.884	1.2345	.41225	4.2025	1.0193
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99672**	**1.0514**	**.51300**	**.96348**	**1.0106**	F **1.5044**
Stddev	.00200	.0036	.00295	.00786	.0022	.1616
%RSD	.20113	.34218	.57489	.81591	.21271	10.742
#1	.99487	1.0520	.51005	.96090	1.0098	1.3661
#2	.99645	1.0475	.51298	.97231	1.0090	1.4649
#3	.99885	1.0546	.51595	.95724	1.0131	1.6821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76274.**	**55358.**
Stddev	239.	344.
%RSD	.31399	.62095
#1	76016.	55420.
#2	76490.	54987.
#3	76316.	55667.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 23:18:00 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**-.01900**	**.00150**	**.00060**	**-.00079**	**.00004**	**-.00316**
Stddev	.00036	.00327	.00147	.00112	.00045	.00002	.01358
%RSD	27.837	17.229	98.028	187.49	56.125	46.740	429.31
#1	.00114	-.02169	.00080	.00072	-.00042	.00005	.00302
#2	.00105	-.01995	.00051	-.00058	-.00068	.00002	.00622
#3	.00172	-.01536	.00319	.00165	-.00129	.00004	-.01873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00021**	**-.00059**	**-.00050**	**.00236**	**.04110**	**-.00475**
Stddev	.0001	.00019	.00025	.00057	.00473	.06539	.00498
%RSD	9722.2	90.067	41.937	114.20	200.12	159.11	104.93
#1	.00005	-.00010	-.00035	-.00032	-.00074	.06912	-.00911
#2	-.00009	-.00010	-.00058	-.00113	.00781	.08781	-.00582
#3	.00004	-.00043	-.00084	-.00004	.00002	-.03363	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**.00001**	**-.00001**	**.05582**	**.00127**	F **-11.519**	**.00221**
Stddev	.00342	.00055	.00021	.01308	.00017	5.424	.00080
%RSD	211.79	5858.6	2508.2	23.437	13.076	47.084	36.350
#1	-.00550	.00042	-.00013	.04072	.00116	-16.903	.00129
#2	.00096	-.00062	-.00013	.06309	.00146	-6.0563	.00280
#3	-.00030	.00022	.00024	.06366	.00118	-11.598	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/18/2011 23:18:00 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.658**	F **-.19371**	F **9.0209**	**-.00220**	**.00592**	**-.06654**	**.00065**
Stddev	14.458	.02195	1.4252	.00080	.00182	.12579	.00019
%RSD	30.338	11.333	15.799	36.646	30.812	189.03	29.103
#1	-43.905	-.17808	7.3862	-.00225	.00587	-.20662	.00043
#2	-35.447	-.21881	9.6736	-.00297	.00412	-.02975	.00076
#3	-63.623	-.18423	10.003	-.00136	.00776	.03674	.00074
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00019**	**.00187**	**.00033**	**.00010**	F **.32826**
Stddev	.00007	.00087	.00049	.00051	.00009	.02842
%RSD	49.546	451.14	26.103	153.46	92.214	8.6585
#1	-.00009	.00117	.00141	.00088	.00018	.30460
#2	-.00022	-.00048	.00182	-.00014	.00013	.35978
#3	-.00011	-.00011	.00238	.00026	.00000	.32040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79168.**	**56760.**
Stddev	153.	135.
%RSD	.19375	.23726
#1	79175.	56852.
#2	79012.	56822.
#3	79318.	56605.

Approved: February 21, 2011

Sample Name: L1102036534 Acquired: 2/18/2011 23:21:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**77.203**	**.05074**	**.06273**	**.58876**	**.00418**	**396.74**
Stddev	.00034	1.848	.00289	.00040	.00548	.00006	4.23
%RSD	7.6969	2.3937	5.6958	.63364	.93079	1.5484	1.0650
#1	.00437	76.713	.04745	.06272	.58783	.00411	395.12
#2	.00479	75.650	.05191	.06314	.58380	.00417	393.57
#3	.00412	79.247	.05285	.06235	.59464	.00424	401.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**.03257**	**.10105**	**.13413**	**73.673**	**15.963**	**.09055**
Stddev	.00011	.00055	.00127	.00344	.854	.174	.00316
%RSD	2.5491	1.6902	1.2554	2.5649	1.1588	1.0911	3.4876
#1	.00437	.03200	.10006	.13083	73.456	15.923	.09374
#2	.00417	.03262	.10061	.13386	72.948	15.813	.08742
#3	.00434	.03309	.10248	.13770	74.614	16.154	.09050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.734**	**3.9508**	**.00116**	**4.1194**	**.08315**	F **7711.6**	**.27089**
Stddev	.316	.0475	.00018	.0387	.00243	152.4	.00679
%RSD	1.0994	1.2021	15.594	.93858	2.9184	1.9768	2.5083
#1	28.715	3.9306	.00120	4.1103	.08040	7552.6	.26307
#2	28.428	3.9168	.00096	4.0861	.08402	7725.8	.27431
#3	29.059	4.0051	.00131	4.1618	.08502	7856.5	.27530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036534 Acquired: 2/18/2011 23:21:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-62.440**	F **529.62**	F **-3013.0**	**-.00059**	**.00602**	**74.637**	**.00517**
Stddev	22.224	11.42	57.3	.00218	.00228	1.794	.00012
%RSD	35.592	2.1559	1.9022	368.69	37.838	2.4038	2.2571
#1	-51.280	518.31	-2955.2	-.00091	.00341	72.846	.00504
#2	-48.007	529.43	-3014.1	-.00260	.00708	74.631	.00522
#3	-88.031	541.14	-3069.8	.00173	.00758	76.435	.00525
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13456**	**.35363**	**.00948**	**.13793**	**.54095**	**27.815**
Stddev	.00169	.00325	.00065	.00294	.01151	.704
%RSD	1.2577	.91842	6.8981	2.1283	2.1286	2.5307
#1	.13363	.35070	.00958	.13597	.52988	27.645
#2	.13354	.35305	.01008	.13651	.54011	27.212
#3	.13652	.35712	.00878	.14131	.55287	28.588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76147.**	**57259.**
Stddev	334.	379.
%RSD	.43891	.66135
#1	76305.	57015.
#2	76373.	57695.
#3	75763.	57067.

Approved: February 21, 2011

Sample Name: L1102036535 Acquired: 2/18/2011 23:25:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00350**	**59.522**	**.03680**	**.05195**	**.62991**	**.00331**	**237.55**
Stddev	.00018	1.288	.00120	.00216	.00804	.00010	3.20
%RSD	5.1149	2.1644	3.2744	4.1519	1.2758	3.0308	1.3467
#1	.00333	58.088	.03780	.05182	.62102	.00319	234.32
#2	.00348	59.895	.03713	.04986	.63207	.00338	237.62
#3	.00368	60.582	.03546	.05417	.63665	.00336	240.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00407**	**.02614**	**.06894**	**.25053**	**60.836**	**16.724**	**.06757**
Stddev	.00032	.00059	.00145	.00563	.907	.266	.00154
%RSD	7.7762	2.2414	2.1102	2.2483	1.4907	1.5883	2.2834
#1	.00371	.02550	.06736	.24445	59.923	16.427	.06935
#2	.00419	.02627	.06923	.25158	60.850	16.806	.06658
#3	.00431	.02666	.07022	.25557	61.737	16.939	.06678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.577**	**2.9107**	**.00160**	**.57433**	**.05914**	F **22775.**	**.25490**
Stddev	.309	.0418	.00011	.00861	.00111	515.	.00712
%RSD	1.4333	1.4347	6.7563	1.4987	1.8690	2.2597	2.7931
#1	21.257	2.8698	.00169	.58413	.05795	22198.	.24686
#2	21.602	2.9090	.00148	.56800	.05932	22942.	.25741
#3	21.874	2.9532	.00163	.57087	.06014	23186.	.26041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036535 Acquired: 2/18/2011 23:25:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-64.889**	F **320.21**	F **-2134.0**	**.00127**	**.00321**	**52.833**	**.00712**
Stddev	3.063	7.40	39.0	.00156	.00265	1.339	.00009
%RSD	4.7200	2.3110	1.8293	122.37	82.605	2.5344	1.2229
#1	-68.379	312.05	-2091.0	-.00029	.00266	51.286	.00708
#2	-63.637	322.09	-2143.9	.00129	.00608	53.604	.00706
#3	-62.650	326.49	-2167.2	.00282	.00087	53.607	.00722
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20422**	**.21394**	**.00766**	**.09267**	**.59061**	**30.496**
Stddev	.00285	.00454	.00106	.00167	.01513	.713
%RSD	1.3953	2.1243	13.826	1.8030	2.5624	2.3386
#1	.20127	.21085	.00644	.09085	.57394	29.696
#2	.20443	.21182	.00820	.09305	.59441	30.724
#3	.20696	.21916	.00835	.09412	.60348	31.066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77923.**	**57717.**
Stddev	1034.	367.
%RSD	1.3266	.63659
#1	79114.	58116.
#2	77256.	57643.
#3	77400.	57393.

Approved: February 21, 2011

Sample Name: L1102036536 Acquired: 2/18/2011 23:28:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00368**	**73.137**	**.04075**	**.05573**	**.68594**	**.00419**	**309.92**
Stddev	.00057	1.583	.00201	.00061	.01197	.00008	4.27
%RSD	15.536	2.1641	4.9421	1.0900	1.7448	1.8075	1.3771
#1	.00303	73.193	.03846	.05510	.67411	.00410	305.41
#2	.00411	74.692	.04156	.05576	.68566	.00421	310.44
#3	.00390	71.527	.04224	.05632	.69804	.00425	313.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**.03243**	**.08973**	**.19734**	**71.787**	**17.244**	**.08174**
Stddev	.00012	.00056	.00177	.00482	1.236	.212	.00179
%RSD	2.7065	1.7226	1.9729	2.4435	1.7225	1.2270	2.1908
#1	.00435	.03179	.08770	.19254	70.566	17.037	.08014
#2	.00416	.03276	.09095	.19730	71.756	17.236	.08141
#3	.00438	.03275	.09055	.20218	73.039	17.460	.08367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.582**	**3.6802**	**.00110**	**1.0912**	**.07611**	F **12878.**	**.24220**
Stddev	.394	.0520	.00011	.0124	.00168	239.	.00619
%RSD	1.4271	1.4130	10.208	1.1351	2.2131	1.8588	2.5578
#1	27.169	3.6277	.00105	1.0989	.07436	12625.	.23596
#2	27.623	3.6810	.00122	1.0769	.07626	12911.	.24229
#3	27.953	3.7317	.00101	1.0978	.07772	13100.	.24835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036536 Acquired: 2/18/2011 23:28:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.367**	F **395.63**	F **-1841.2**	**.00339**	**.00400**	**65.087**	**.00641**
Stddev	4.784	8.38	36.0	.00228	.00424	1.075	.00063
%RSD	7.7959	2.1185	1.9526	67.299	106.22	1.6520	9.8078
#1	-66.527	387.06	-1802.9	.00389	.00421	63.987	.00611
#2	-60.495	396.02	-1846.4	.00090	-.00035	65.138	.00714
#3	-57.078	403.81	-1874.2	.00539	.00813	66.136	.00600
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19839**	**.25276**	**.00805**	**.11876**	**.54745**	**31.191**
Stddev	.00246	.00671	.00082	.00162	.01122	.490
%RSD	1.2393	2.6549	10.143	1.3673	2.0499	1.5711
#1	.19602	.24515	.00897	.11692	.53611	30.758
#2	.19823	.25534	.00739	.11936	.54769	31.092
#3	.20093	.25781	.00780	.11999	.55855	31.723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75851.**	**56025.**
Stddev	271.	333.
%RSD	.35727	.59525
#1	76148.	56290.
#2	75788.	55650.
#3	75617.	56134.

Approved: February 21, 2011

Sample Name: L1102036537 Acquired: 2/18/2011 23:32:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**75.723**	**.04362**	**.05833**	**.63821**	**.00389**	**350.32**
Stddev	.00058	.764	.00275	.00135	.00658	.00001	3.27
%RSD	13.604	1.0089	6.2951	2.3081	1.0314	.20856	.93338
#1	.00394	74.843	.04053	.05717	.63178	.00388	346.99
#2	.00398	76.217	.04577	.05801	.63790	.00390	350.44
#3	.00497	76.110	.04455	.05981	.64493	.00389	353.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**.03225**	**.09314**	**.18730**	**73.277**	**18.425**	**.08334**
Stddev	.00018	.00079	.00100	.00275	.755	.210	.00180
%RSD	4.1841	2.4475	1.0737	1.4666	1.0308	1.1402	2.1565
#1	.00410	.03148	.09202	.18475	72.574	18.197	.08130
#2	.00409	.03221	.09345	.18695	73.182	18.467	.08469
#3	.00439	.03306	.09395	.19021	74.075	18.611	.08404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.333**	**3.8158**	**.00161**	**1.7052**	**.07585**	F **8549.0**	**.24708**
Stddev	.224	.0333	.00004	.0349	.00164	141.7	.00768
%RSD	.79124	.87251	2.5887	2.0480	2.1610	1.6576	3.1075
#1	28.105	3.7825	.00158	1.6652	.07492	8409.7	.24002
#2	28.341	3.8157	.00166	1.7204	.07488	8544.2	.24597
#3	28.553	3.8491	.00159	1.7299	.07774	8693.0	.25525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036537 Acquired: 2/18/2011 23:32:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.459**	F **421.22**	F **-1524.4**	**.00125**	**.00788**	**62.695**	**.00708**
Stddev	21.400	7.25	14.3	.00057	.00247	1.412	.00008
%RSD	40.795	1.7204	.94014	46.158	31.323	2.2514	1.1553
#1	-76.819	413.96	-1510.6	.00119	.00975	61.338	.00702
#2	-36.689	421.27	-1523.4	.00070	.00881	62.592	.00704
#3	-43.867	428.45	-1539.2	.00185	.00508	64.156	.00717
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19055**	**.38181**	**.00820**	**.12395**	**.51833**	**33.980**
Stddev	.00128	.00476	.00053	.00152	.00914	.443
%RSD	.67366	1.2472	6.4802	1.2261	1.7638	1.3042
#1	.18938	.37765	.00759	.12221	.50939	33.504
#2	.19034	.38076	.00848	.12498	.51794	34.380
#3	.19192	.38700	.00853	.12467	.52766	34.057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75335.**	**55579.**
Stddev	345.	467.
%RSD	.45830	.84042
#1	75606.	55422.
#2	75453.	55211.
#3	74946.	56105.

Approved: February 21, 2011

Sample Name: L1102036538 Acquired: 2/18/2011 23:36:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**56.486**	**.03431**	**.05214**	**.46696**	**.00266**	**372.85**
Stddev	.00015	.325	.00297	.00037	.00456	.00003	2.49
%RSD	3.1785	.57449	8.6689	.71363	.97670	1.2900	.66824
#1	.00483	56.357	.03198	.05233	.46241	.00267	370.00
#2	.00504	56.246	.03329	.05239	.47154	.00269	374.63
#3	.00473	56.855	.03766	.05172	.46692	.00262	373.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00384**	**.02522**	**.06804**	**.26754**	**58.713**	**16.082**	**.06509**
Stddev	.00021	.00036	.00032	.00560	.438	.100	.00134
%RSD	5.4491	1.4200	.46513	2.0920	.74540	.61963	2.0570
#1	.00364	.02493	.06805	.26160	58.251	15.972	.06391
#2	.00383	.02511	.06773	.26832	59.121	16.110	.06655
#3	.00406	.02562	.06836	.27271	58.768	16.165	.06483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.613**	**2.7018**	**.00251**	**.23752**	**.05773**	F **6622.2**	**.25403**
Stddev	.156	.0185	.00018	.01572	.00090	105.2	.00387
%RSD	.69099	.68323	7.0191	6.6191	1.5592	1.5888	1.5251
#1	22.444	2.6806	.00238	.22752	.05669	6513.5	.25026
#2	22.644	2.7145	.00244	.22941	.05818	6629.6	.25383
#3	22.752	2.7103	.00271	.25565	.05832	6723.5	.25800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036538 Acquired: 2/18/2011 23:36:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-39.991**	F **453.68**	F **-1942.3**	**.00288**	**.00352**	**47.913**	**.00534**
Stddev	4.137	8.18	27.4	.00175	.00380	.923	.00058
%RSD	10.345	1.8033	1.4118	60.829	108.06	1.9266	10.935
#1	-36.054	445.65	-1918.9	.00115	.00785	47.057	.00602
#2	-39.616	453.39	-1935.5	.00284	.00196	47.790	.00497
#3	-44.303	462.00	-1972.5	.00465	.00075	48.891	.00504
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18132**	**.36936**	**.00687**	**.09501**	**.43575**	**22.910**
Stddev	.00183	.00765	.00169	.00071	.00837	.318
%RSD	1.0114	2.0702	24.644	.74444	1.9216	1.3885
#1	.17924	.36070	.00770	.09560	.42754	22.903
#2	.18204	.37518	.00493	.09422	.43543	22.596
#3	.18268	.37219	.00800	.09521	.44427	23.232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76349.**	**56184.**
Stddev	270.	796.
%RSD	.35399	1.4162
#1	76548.	55266.
#2	76457.	56612.
#3	76041.	56675.

Approved: February 21, 2011

Sample Name: L1102036539 Acquired: 2/18/2011 23:39:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	**48.003**	**.03267**	**.03793**	**.47272**	**.00320**	**320.54**
Stddev	.00025	.648	.00265	.00152	.00296	.00005	2.27
%RSD	7.8577	1.3493	8.1052	4.0011	.62684	1.4138	.70876
#1	.00340	47.364	.03081	.03937	.46939	.00315	317.97
#2	.00293	47.987	.03150	.03634	.47368	.00322	321.36
#3	.00304	48.659	.03570	.03808	.47508	.00324	322.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00334**	**.02518**	**.06701**	**.15303**	**55.162**	**11.012**	**.05997**
Stddev	.00012	.00019	.00103	.00114	.345	.058	.00164
%RSD	3.5147	.77021	1.5405	.74288	.62467	.52592	2.7340
#1	.00321	.02518	.06605	.15174	54.821	11.015	.06107
#2	.00343	.02499	.06688	.15347	55.156	10.952	.06075
#3	.00338	.02537	.06810	.15388	55.510	11.068	.05808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.452**	**3.4646**	**.00096**	**.32383**	**.05777**	F **4227.8**	**.22505**
Stddev	.173	.0253	.00013	.01221	.00129	39.2	.00137
%RSD	.70608	.73099	13.663	3.7712	2.2379	.92634	.60686
#1	24.268	3.4389	.00109	.30973	.05630	4203.7	.22373
#2	24.476	3.4653	.00083	.33064	.05827	4206.7	.22495
#3	24.611	3.4895	.00096	.33111	.05873	4273.0	.22646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036539 Acquired: 2/18/2011 23:39:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.002**	F **361.66**	F **-967.87**	**-.00317**	**.00735**	**55.015**	**.00332**
Stddev	18.465	4.27	9.54	.00156	.00478	.602	.00026
%RSD	45.034	1.1811	.98607	49.194	65.058	1.0951	7.8275
#1	-62.282	357.58	-959.87	-.00299	.00187	54.558	.00346
#2	-29.215	361.31	-965.31	-.00482	.01066	54.790	.00302
#3	-31.508	366.10	-978.44	-.00171	.00953	55.698	.00347
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13869**	**.15048**	**.00681**	**.08216**	**.39495**	**20.977**
Stddev	.00085	.00233	.00056	.00126	.00494	.405
%RSD	.60977	1.5511	8.3009	1.5374	1.2501	1.9286
#1	.13774	.14786	.00728	.08073	.39028	20.578
#2	.13901	.15233	.00618	.08262	.39444	20.966
#3	.13934	.15127	.00696	.08313	.40012	21.387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76237.**	**55657.**
Stddev	216.	554.
%RSD	.28284	.99594
#1	76270.	56293.
#2	76434.	55406.
#3	76007.	55274.

Approved: February 21, 2011

Sample Name: L1102036540 Acquired: 2/18/2011 23:42:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00335**	**53.501**	**.03917**	**.06379**	**.55929**	**.00338**	**310.64**
Stddev	.00096	.582	.00127	.00085	.00651	.00005	3.73
%RSD	28.569	1.0869	3.2521	1.3251	1.1644	1.5470	1.1998
#1	.00428	54.048	.03791	.06307	.55335	.00344	307.18
#2	.00236	52.890	.04046	.06472	.55826	.00333	310.15
#3	.00341	53.563	.03915	.06358	.56625	.00338	314.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00526**	**.02714**	**.07556**	**.24669**	**58.756**	**14.816**	**.06230**
Stddev	.00011	.00061	.00112	.00608	.750	.175	.00118
%RSD	2.0170	2.2449	1.4804	2.4632	1.2758	1.1828	1.8897
#1	.00514	.02651	.07681	.24068	58.104	14.676	.06112
#2	.00531	.02719	.07465	.24655	58.588	14.759	.06229
#3	.00534	.02773	.07522	.25283	59.575	15.013	.06348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.284**	**3.8635**	**.00225**	**.62442**	**.06599**	F **18736.**	**.29979**
Stddev	.269	.0436	.00012	.00945	.00215	371.	.00683
%RSD	1.0239	1.1278	5.4534	1.5142	3.2571	1.9779	2.2787
#1	26.084	3.8226	.00224	.62900	.06390	18369.	.29306
#2	26.180	3.8585	.00213	.61354	.06589	18728.	.29960
#3	26.590	3.9093	.00237	.63071	.06819	19110.	.30672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036540 Acquired: 2/18/2011 23:42:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-81.662**	F **394.50**	F **-1958.6**	**.00162**	**.00644**	**46.108**	**.00906**
Stddev	16.417	8.46	40.2	.00157	.00240	1.203	.00005
%RSD	20.104	2.1453	2.0504	97.010	37.249	2.6093	.58518
#1	-68.670	386.29	-1920.6	.00343	.00732	44.760	.00912
#2	-76.203	394.03	-1954.4	.00075	.00826	46.493	.00902
#3	-100.11	403.19	-2000.6	.00068	.00372	47.072	.00905
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26262**	**.19693**	**.00803**	**.09260**	**.58850**	**22.168**
Stddev	.00315	.00242	.00067	.00157	.01225	.526
%RSD	1.1998	1.2286	8.3576	1.6993	2.0813	2.3711
#1	.25942	.19457	.00733	.09348	.57626	22.606
#2	.26273	.19682	.00866	.09078	.58846	21.585
#3	.26572	.19941	.00809	.09353	.60076	22.312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78331.**	**57882.**
Stddev	157.	830.
%RSD	.20051	1.4345
#1	78462.	56978.
#2	78157.	58611.
#3	78373.	58056.

Approved: February 21, 2011

Sample Name: L1102036541 Acquired: 2/18/2011 23:46:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00410**	**62.992**	**.03886**	**.06574**	**.58167**	**.00350**	**346.20**
Stddev	.00027	.407	.00177	.00166	.00687	.00004	3.11
%RSD	6.6240	.64634	4.5488	2.5192	1.1803	1.0574	.89869
#1	.00390	62.525	.03857	.06538	.57471	.00350	343.19
#2	.00441	63.183	.04075	.06755	.58185	.00354	346.01
#3	.00400	63.269	.03725	.06429	.58844	.00347	349.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00446**	**.02884**	**.08274**	**.15903**	**63.558**	**14.803**	**.07443**
Stddev	.00008	.00038	.00083	.00301	.705	.126	.00129
%RSD	1.8446	1.3140	.99800	1.8907	1.1088	.85281	1.7350
#1	.00436	.02847	.08179	.15614	62.839	14.658	.07300
#2	.00452	.02883	.08328	.15882	63.588	14.864	.07479
#3	.00449	.02923	.08314	.16214	64.248	14.887	.07551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.589**	**4.2642**	**.00092**	**1.2084**	**.07101**	F **10148.**	**.26981**
Stddev	.213	.0370	.00016	.0169	.00048	126.	.00110
%RSD	.77270	.86703	16.930	1.3964	.67526	1.2392	.40874
#1	27.371	4.2260	.00108	1.2007	.07156	10034.	.26953
#2	27.598	4.2668	.00092	1.1968	.07068	10128.	.27102
#3	27.797	4.2998	.00077	1.2278	.07078	10283.	.26887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036541 Acquired: 2/18/2011 23:46:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.679**	F **397.48**	F **-1106.7**	**.00128**	**.00549**	**46.638**	**.00567**
Stddev	8.709	5.48	15.4	.00333	.00362	.612	.00024
%RSD	14.119	1.3795	1.3882	260.89	65.953	1.3122	4.1832
#1	-52.198	392.08	-1092.0	-.00027	.00218	46.009	.00556
#2	-63.519	397.31	-1105.6	-.00100	.00494	46.675	.00552
#3	-69.321	403.04	-1122.6	.00510	.00936	47.231	.00595
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29497**	**.30003**	**.01015**	**.10377**	**.52201**	**25.406**
Stddev	.00247	.00048	.00160	.00037	.00769	.165
%RSD	.83754	.16096	15.741	.35946	1.4729	.64773
#1	.29239	.29993	.00915	.10349	.51450	25.591
#2	.29520	.29960	.01200	.10419	.52168	25.274
#3	.29732	.30056	.00931	.10363	.52986	25.354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77850.**	**57996.**
Stddev	612.	182.
%RSD	.78610	.31336
#1	78482.	58027.
#2	77806.	57800.
#3	77261.	58160.

Approved: February 21, 2011

Sample Name: L1102036542 Acquired: 2/18/2011 23:49:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00486**	**59.258**	**.03490**	**.05227**	**.46910**	**.00265**	**349.61**
Stddev	.00002	.605	.00248	.00231	.00547	.00006	3.98
%RSD	.38839	1.0206	7.1101	4.4146	1.1669	2.1428	1.1370
#1	.00488	58.629	.03216	.05377	.46465	.00259	345.63
#2	.00485	59.310	.03699	.04961	.46745	.00266	349.63
#3	.00485	59.836	.03555	.05343	.47521	.00270	353.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00485**	**.02565**	**.07428**	**.22505**	**61.342**	**15.447**	**.06849**
Stddev	.00004	.00061	.00123	.00340	.709	.168	.00238
%RSD	.74054	2.3590	1.6615	1.5123	1.1560	1.0882	3.4793
#1	.00481	.02498	.07337	.22197	60.733	15.262	.06779
#2	.00488	.02581	.07378	.22447	61.174	15.488	.07114
#3	.00486	.02616	.07568	.22870	62.121	15.590	.06653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.405**	**3.1522**	**.00172**	**.26392**	**.06067**	F **8911.9**	**.23900**
Stddev	.252	.0336	.00015	.00330	.00096	105.1	.00046
%RSD	.99377	1.0649	8.9646	1.2501	1.5790	1.1790	.19375
#1	25.179	3.1209	.00173	.26291	.05989	8815.1	.23907
#2	25.360	3.1479	.00155	.26761	.06038	8897.1	.23851
#3	25.678	3.1877	.00186	.26125	.06174	9023.6	.23943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036542 Acquired: 2/18/2011 23:49:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-65.584**	F **416.82**	F **-1593.5**	**.00182**	**.00514**	**44.688**	**.00567**
Stddev	7.422	5.53	17.8	.00308	.00121	.611	.00018
%RSD	11.316	1.3256	1.1149	169.57	23.529	1.3673	3.0961
#1	-59.379	411.73	-1576.8	.00442	.00575	44.109	.00549
#2	-73.805	416.02	-1591.4	.00262	.00375	44.628	.00584
#3	-63.568	422.70	-1612.2	-.00159	.00593	45.327	.00568
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17599**	**.46451**	**.00712**	**.09684**	**.49935**	**28.720**
Stddev	.00222	.00464	.00056	.00119	.00660	.196
%RSD	1.2617	.99940	7.8679	1.2244	1.3213	.68077
#1	.17379	.46062	.00772	.09557	.49305	28.520
#2	.17595	.46327	.00661	.09705	.49880	28.730
#3	.17823	.46965	.00704	.09791	.50621	28.910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77858.**	**57946.**
Stddev	224.	179.
%RSD	.28798	.30974
#1	77816.	58066.
#2	78100.	57740.
#3	77657.	58033.

Approved: February 21, 2011

Sample Name: L1102036543 Acquired: 2/18/2011 23:53:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00461**	**63.760**	**.04005**	**.05343**	**.50334**	**.00300**	**403.66**
Stddev	.00024	.667	.00221	.00057	.00398	.00004	3.22
%RSD	5.1240	1.0464	5.5263	1.0692	.79022	1.4962	.79796
#1	.00436	63.495	.04255	.05319	.49978	.00301	400.47
#2	.00465	63.267	.03834	.05302	.50260	.00295	403.61
#3	.00482	64.519	.03927	.05409	.50763	.00304	406.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00384**	**.02685**	**.08146**	**.11958**	**65.760**	**13.467**	**.07723**
Stddev	.00008	.00039	.00128	.00215	.516	.100	.00131
%RSD	2.0923	1.4521	1.5761	1.8018	.78459	.74309	1.6921
#1	.00375	.02648	.08100	.11764	65.246	13.362	.07785
#2	.00385	.02683	.08048	.11920	65.755	13.477	.07811
#3	.00391	.02725	.08291	.12190	66.278	13.562	.07572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.678**	**3.5947**	**.00092**	**.53593**	**.06668**	F **5836.6**	**.23122**
Stddev	.236	.0291	.00022	.00316	.00183	68.1	.00101
%RSD	.88344	.80836	23.268	.58986	2.7512	1.1659	.43466
#1	26.467	3.5653	.00073	.53845	.06491	5770.3	.23008
#2	26.637	3.5952	.00090	.53239	.06657	5833.1	.23161
#3	26.932	3.6234	.00115	.53697	.06857	5906.3	.23198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036543 Acquired: 2/18/2011 23:53:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-81.568**	F **462.28**	F **-1240.8**	**.00161**	**.00857**	**40.650**	**.00399**
Stddev	6.779	6.99	30.0	.00314	.00025	.689	.00040
%RSD	8.3109	1.5126	2.4160	194.41	2.9455	1.6956	9.9437
#1	-74.031	455.55	-1210.1	.00438	.00885	40.143	.00444
#2	-87.166	461.78	-1242.5	-.00179	.00835	40.372	.00386
#3	-83.506	469.50	-1269.9	.00225	.00852	41.435	.00368
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16568**	**.45109**	**.00842**	**.11296**	**.46451**	**26.496**
Stddev	.00164	.00348	.00018	.00098	.00708	.480
%RSD	.99238	.77043	2.1031	.87023	1.5244	1.8119
#1	.16413	.44733	.00842	.11261	.45741	26.063
#2	.16552	.45176	.00859	.11219	.46455	26.413
#3	.16740	.45419	.00824	.11407	.47157	27.013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78029.**	**58174.**
Stddev	52.	385.
%RSD	.06725	.66199
#1	77975.	57998.
#2	78034.	58615.
#3	78079.	57908.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 23:56:51 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38642**	**9.7328**	**.40825**	**.48150**	**1.0087**	**.04869**	**10.202**
Stddev	.00297	.0490	.00134	.00011	.0029	.00039	.087
%RSD	.76742	.50339	.32938	.02220	.29271	.80135	.84999
#1	.38431	9.6779	.40897	.48160	1.0055	.04827	10.129
#2	.38515	9.7485	.40670	.48150	1.0114	.04876	10.178
#3	.38981	9.7721	.40909	.48139	1.0092	.04904	10.298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05212**	**.20584**	**.48551**	**.50359**	**4.0610**	**50.226**	**1.0148**
Stddev	.00040	.00044	.00486	.00116	.0303	.209	.0029
%RSD	.75957	.21462	1.0005	.23085	.74704	.41528	.29095
#1	.05193	.20540	.48062	.50229	4.0264	49.993	1.0114
#2	.05185	.20585	.48558	.50395	4.0735	50.292	1.0160
#3	.05257	.20628	.49034	.50453	4.0831	50.394	1.0170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.082**	**.50718**	**1.0061**	**50.667**	**.51470**	**10.052**	**.52798**
Stddev	.045	.00253	.0011	.163	.00088	3.009	.00264
%RSD	.44850	.49931	.10617	.32083	.17030	29.932	.50071
#1	10.036	.50434	1.0050	50.487	.51374	8.0534	.52684
#2	10.083	.50920	1.0064	50.802	.51489	13.513	.52610
#3	10.126	.50801	1.0071	50.713	.51546	8.5904	.53101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/18/2011 23:56:51 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.935**	**10.439**	F **5.2445**	**1.2360**	**.41021**	F **4.1821**	**1.0201**
Stddev	6.692	.045	2.9414	.0030	.00244	.2924	.0018
%RSD	11.964	.43126	56.085	.24365	.59551	6.9909	.17945
#1	-61.104	10.390	8.6178	1.2325	.40942	4.2941	1.0182
#2	-58.326	10.449	3.9005	1.2380	.41295	3.8503	1.0202
#3	-48.376	10.478	3.2152	1.2373	.40826	4.4018	1.0219
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0002**	**1.0498**	**.51461**	**.95652**	**1.0127**	F **1.6235**
Stddev	.0015	.0070	.00399	.00803	.0021	.1702
%RSD	.14724	.66316	.77480	.83976	.20232	10.481
#1	.99892	1.0432	.51572	.94879	1.0106	1.6957
#2	1.0018	1.0492	.51019	.95595	1.0127	1.4292
#3	.99986	1.0570	.51793	.96482	1.0147	1.7457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78607.**	**57867.**
Stddev	228.	203.
%RSD	.28942	.35012
#1	78585.	58101.
#2	78846.	57761.
#3	78392.	57739.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/19/2011 0:00:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**-.00695**	**.00084**	**-.00055**	**-.00113**	**.00004**	**.05086**
Stddev	.00088	.00349	.00169	.00103	.00007	.00002	.01017
%RSD	114.85	50.250	200.30	186.40	5.9969	48.994	19.997
#1	.00126	-.00370	.00264	.00063	-.00106	.00003	.04359
#2	.00128	-.00651	-.00071	-.00109	-.00119	.00007	.04651
#3	-.00025	-.01064	.00060	-.00119	-.00114	.00003	.06248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00012**	**-.00037**	**-.00050**	**.00845**	**-.00316**	**.00135**
Stddev	.00003	.00008	.00042	.00011	.00682	.04765	.00232
%RSD	101.58	68.194	114.12	22.087	80.784	1508.7	172.12
#1	.00004	-.00016	-.00083	-.00059	.00224	.03190	.00153
#2	.00005	-.00018	-.00029	-.00052	.00735	-.05741	.00357
#3	.00000	-.00003	.00001	-.00038	.01575	.01603	-.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**.00067**	**.00050**	**.05414**	**.00090**	F **-9.9897**	**.00286**
Stddev	.02060	.00065	.00028	.00515	.00033	1.7626	.00195
%RSD	1646.1	96.994	55.851	9.5205	36.969	17.644	68.261
#1	-.00275	-.00007	.00070	.05992	.00066	-9.1305	.00341
#2	-.01705	.00115	.00018	.05248	.00075	-8.8216	.00447
#3	.02356	.00092	.00060	.05003	.00128	-12.017	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/19/2011 0:00:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.401**	F **-.08330**	F **4.2971**	**-.00417**	**.00376**	**.06897**	**.00048**
Stddev	5.324	.04186	.8085	.00050	.00134	.11951	.00066
%RSD	10.161	50.253	18.815	12.029	35.707	173.27	138.19
#1	-47.853	-.07419	4.2014	-.00360	.00298	-.06901	-.00026
#2	-58.258	-.04675	5.1491	-.00453	.00299	.13646	.00069
#3	-51.094	-.12897	3.5407	-.00439	.00531	.13948	.00102
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00020**	**.00223**	**.00014**	**.00012**	F **.58652**
Stddev	.00019	.00063	.00013	.00030	.00005	.19179
%RSD	1351.7	319.81	5.7350	206.86	37.120	32.699
#1	-.00018	.00086	.00224	.00043	.00017	.43718
#2	.00020	-.00040	.00210	-.00016	.00008	.80281
#3	.00003	.00013	.00236	.00016	.00013	.51959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79511.**	**57966.**
Stddev	256.	24.
%RSD	.32202	.04083
#1	79252.	57949.
#2	79517.	57993.
#3	79764.	57954.

Approved: February 21, 2011

Sample Name: PBS AA Acquired: 2/19/2011 0:04:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356912-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00111**	**-.01644**	**.00046**	**-.00053**	**-.00090**	**.00007**	**.04346**
Stddev	.00046	.00232	.00111	.00080	.00034	.00000	.00816
%RSD	41.571	14.092	239.67	150.33	37.983	4.4989	18.782
#1	.00129	-.01673	.00160	.00037	-.00067	.00007	.03703
#2	.00059	-.01860	-.00063	-.00115	-.00075	.00007	.04071
#3	.00145	-.01399	.00042	-.00082	-.00130	.00008	.05265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00032**	**.00034**	**-.00061**	**.02665**	**-.06686**	**-.00126**
Stddev	.00020	.00014	.00024	.00063	.00529	.02059	.00129
%RSD	186.62	44.767	71.295	103.92	19.852	30.789	102.52
#1	.00016	-.00039	.00051	-.00132	.02824	-.09020	-.00018
#2	-.00011	-.00015	.00046	-.00035	.02074	-.05913	-.00091
#3	.00028	-.00040	.00006	-.00015	.03095	-.05126	-.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00654**	**.00016**	**.00027**	**.05911**	**.00207**	F **-26.224**	**.00517**
Stddev	.01273	.00051	.00006	.01887	.00044	5.995	.00138
%RSD	194.68	325.14	21.788	31.926	21.445	22.862	26.641
#1	.00310	-.00043	.00020	.04452	.00156	-33.069	.00581
#2	-.00412	.00040	.00030	.05240	.00230	-23.701	.00611
#3	.02063	.00049	.00031	.08043	.00236	-21.903	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: PBS AA Acquired: 2/19/2011 0:04:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356912-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.202**	F **-.07354**	**4.8156**	**-.00020**	**.00626**	**2.2690**	**.00079**
Stddev	11.198	.01257	.6481	.00240	.00435	.2175	.00037
%RSD	18.916	17.097	13.459	1194.5	69.528	9.5833	46.988
#1	-48.132	-.06812	5.4993	.00144	.00162	2.1505	.00076
#2	-70.525	-.08791	4.2102	-.00296	.01025	2.1365	.00044
#3	-58.949	-.06458	4.7372	.00092	.00690	2.5200	.00118
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00064**	**.00044**	**.00016**	**.00226**	**.61510**
Stddev	.00010	.00064	.00055	.00017	.00007	.08361
%RSD	34.662	100.25	125.61	111.23	2.9076	13.594
#1	-.00029	.00127	-.00020	.00005	.00228	.69019
#2	-.00038	.00064	.00073	.00036	.00232	.63012
#3	-.00018	.00000	.00078	.00007	.00219	.52499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80278.**	**59273.**
Stddev	1042.	565.
%RSD	1.2985	.95308
#1	80918.	58638.
#2	80842.	59460.
#3	79075.	59720.

Approved: February 21, 2011

Sample Name: LCSS AA Acquired: 2/19/2011 0:07:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356912-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18440**	**-.01402**	**.18493**	**-.00185**	**-.00078**	**.00007**	**.00892**
Stddev	.00122	.00359	.00047	.00104	.00031	.00002	.00759
%RSD	.66258	25.574	.25545	55.934	39.441	24.209	85.070
#1	.18402	-.01342	.18542	-.00266	-.00100	.00006	.00254
#2	.18341	-.01787	.18488	-.00068	-.00092	.00006	.00691
#3	.18577	-.01078	.18448	-.00222	-.00043	.00009	.01731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02415**	**-.00038**	**.00028**	**.24228**	**.00497**	**.00736**	**-.00647**
Stddev	.00025	.00025	.00036	.00032	.00351	.02510	.00183
%RSD	1.0549	65.503	129.22	.13227	70.688	340.86	28.358
#1	.02387	-.00039	.00008	.24191	.00745	-.01828	-.00507
#2	.02421	-.00061	.00006	.24245	.00651	.00850	-.00579
#3	.02437	-.00012	.00070	.24248	.00095	.03188	-.00855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01209**	**.25005**	**.00004**	**.02071**	**.00126**	F **-23.196**	**.25828**
Stddev	.00565	.00099	.00036	.01936	.00051	7.321	.00395
%RSD	46.726	.39444	914.14	93.483	40.424	31.561	1.5308
#1	-.01270	.24891	.00012	.02964	.00068	-14.791	.25431
#2	-.00616	.25064	.00035	.03399	.00146	-26.622	.25831
#3	-.01741	.25060	-.00035	-.00150	.00164	-28.176	.26221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: LCSS AA Acquired: 2/19/2011 0:07:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG356912-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.688**	F **-.09531**	F **9.5032**	**-.00122**	**.00567**	**1.4870**	**.00033**
Stddev	12.473	.02984	2.3983	.00175	.00162	.3584	.00003
%RSD	29.219	31.315	25.237	143.97	28.651	24.105	8.3029
#1	-51.518	-.08045	6.9943	-.00284	.00451	1.0781	.00030
#2	-28.419	-.12966	11.773	.00064	.00753	1.6359	.00035
#3	-48.126	-.07580	9.7423	-.00144	.00497	1.7470	.00035
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00024**	**.00026**	**-.00026**	**.00188**	**.40555**
Stddev	.00007	.00043	.00015	.00035	.00010	.15341
%RSD	40.032	177.25	56.585	132.19	5.1504	37.828
#1	-.00015	.00022	.00039	-.00008	.00192	.46428
#2	-.00024	-.00063	.00010	-.00005	.00195	.23145
#3	-.00011	-.00032	.00030	-.00066	.00177	.52092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77217.**	**55133.**
Stddev	164.	184.
%RSD	.21288	.33458
#1	77374.	55106.
#2	77046.	55329.
#3	77231.	54964.

Approved: February 21, 2011

Sample Name: L1102032501 Acquired: 2/19/2011 0:11:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00878**	**21.748**	**.04460**	**.05253**	**1.7669**	**.00451**	**43.798**
Stddev	.00058	.183	.00089	.00071	.0024	.00005	.050
%RSD	6.5921	.84170	1.9973	1.3448	.13517	1.0885	.11447
#1	.00944	21.915	.04537	.05229	1.7668	.00456	43.777
#2	.00843	21.553	.04481	.05197	1.7646	.00447	43.762
#3	.00846	21.777	.04363	.05332	1.7693	.00450	43.855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00936**	**.03867**	**.05340**	**3.5269**	**63.503**	**4.1110**	**.01770**
Stddev	.00017	.00018	.00084	.0122	.018	.0403	.00203
%RSD	1.7980	.45500	1.5658	.34633	.02865	.97910	11.484
#1	.00931	.03865	.05279	3.5163	63.513	4.0754	.01570
#2	.00955	.03851	.05306	3.5240	63.482	4.1547	.01763
#3	.00923	.03886	.05436	3.5403	63.514	4.1031	.01976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.2600**	**2.4808**	**.00500**	**1.2483**	**.04447**	F **13882.**	**2.7083**
Stddev	.0245	.0023	.00014	.0105	.00079	46.	.0065
%RSD	.46539	.09343	2.6988	.84437	1.7838	.33299	.24079
#1	5.2392	2.4794	.00515	1.2590	.04357	13839.	2.7035
#2	5.2540	2.4795	.00488	1.2481	.04476	13875.	2.7057
#3	5.2870	2.4834	.00497	1.2379	.04507	13931.	2.7157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102032501 Acquired: 2/19/2011 0:11:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-32.524**	F **133.68**	F **-3116.2**	**.01203**	**.00654**	**79.390**	**.08936**
Stddev	15.564	.29	10.1	.00193	.00103	.244	.00021
%RSD	47.853	.21924	.32345	16.018	15.768	.30673	.23426
#1	-15.608	133.37	-3105.1	.01021	.00535	79.489	.08918
#2	-35.726	133.72	-3118.9	.01182	.00710	79.112	.08930
#3	-46.237	133.96	-3124.7	.01405	.00717	79.568	.08959
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.57486**	**.17081**	**.00313**	**.05407**	**2.1583**	**10.841**
Stddev	.00020	.00077	.00025	.00059	.0052	.074
%RSD	.03426	.44951	8.0210	1.0902	.23862	.68566
#1	.57464	.17095	.00300	.05454	2.1556	10.918
#2	.57501	.16998	.00342	.05341	2.1551	10.835
#3	.57492	.17150	.00298	.05425	2.1643	10.769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79716.**	**56929.**
Stddev	316.	351.
%RSD	.39594	.61665
#1	79631.	56829.
#2	80065.	57319.
#3	79451.	56639.

Approved: February 21, 2011

Sample Name: L1102036544 Acquired: 2/19/2011 0:15:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**22.842**	**.02783**	**.02898**	**.42115**	**.00241**	**409.72**
Stddev	.00044	.228	.00118	.00091	.00288	.00004	2.45
%RSD	22.215	.99737	4.2548	3.1568	.68366	1.7176	.59769
#1	.00245	22.980	.02654	.02876	.41808	.00246	407.26
#2	.00162	22.579	.02888	.02820	.42158	.00238	409.74
#3	.00181	22.967	.02806	.02999	.42379	.00240	412.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00358**	**.02059**	**.04461**	**.15360**	**40.580**	**6.7765**	**.04191**
Stddev	.00012	.00013	.00080	.00210	.266	.0621	.00195
%RSD	3.3141	.61098	1.7895	1.3655	.65650	.91700	4.6648
#1	.00361	.02067	.04522	.15166	40.292	6.7484	.04074
#2	.00344	.02066	.04371	.15330	40.631	6.7333	.04082
#3	.00367	.02045	.04490	.15582	40.817	6.8477	.04416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.680**	**3.2502**	**.00260**	**1.7663**	**.04659**	F **4431.8**	**.25559**
Stddev	.114	.0170	.00015	.0141	.00103	64.3	.00396
%RSD	.52564	.52391	5.8252	.80069	2.2045	1.4505	1.5498
#1	21.561	3.2314	.00273	1.7638	.04566	4362.9	.25125
#2	21.690	3.2549	.00244	1.7536	.04641	4442.3	.25652
#3	21.789	3.2645	.00263	1.7816	.04769	4490.1	.25901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036544 Acquired: 2/19/2011 0:15:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.600**	F **509.79**	F **-2663.0**	**.00169**	**.00578**	**78.830**	**.00399**
Stddev	11.815	6.50	25.9	.00303	.00296	.925	.00054
%RSD	29.100	1.2751	.97249	179.30	51.107	1.1736	13.496
#1	-28.223	503.51	-2635.0	.00282	.00262	77.908	.00418
#2	-51.757	509.37	-2667.9	-.00174	.00625	78.822	.00338
#3	-41.820	516.49	-2686.1	.00399	.00848	79.759	.00441
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17225**	**.07316**	**.00562**	**.06326**	**.43180**	**12.621**
Stddev	.00088	.00076	.00109	.00098	.00592	.223
%RSD	.50879	1.0398	19.476	1.5513	1.3700	1.7698
#1	.17167	.07395	.00579	.06358	.42590	12.384
#2	.17182	.07243	.00661	.06216	.43178	12.828
#3	.17326	.07310	.00444	.06405	.43773	12.652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75356.**	**55177.**
Stddev	94.	471.
%RSD	.12440	.85442
#1	75344.	54670.
#2	75455.	55602.
#3	75269.	55259.

Approved: February 21, 2011

Sample Name: L1102036545 Acquired: 2/19/2011 0:18:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**32.486**	**.03316**	**.02818**	**.56251**	**.00347**	**330.16**
Stddev	.00048	.150	.00233	.00099	.00115	.00001	1.06
%RSD	23.052	.46138	7.0393	3.4980	.20415	.25393	.32221
#1	.00194	32.643	.03328	.02901	.56120	.00346	329.33
#2	.00170	32.471	.03077	.02844	.56296	.00348	329.79
#3	.00263	32.345	.03543	.02709	.56336	.00346	331.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00399**	**.02587**	**.06006**	**.10061**	**48.620**	**7.4431**	**.04555**
Stddev	.00004	.00020	.00093	.00041	.089	.0173	.00391
%RSD	1.0473	.75588	1.5527	.40546	.18293	.23270	8.5860
#1	.00399	.02575	.06112	.10014	48.522	7.4232	.04970
#2	.00403	.02577	.05937	.10083	48.645	7.4546	.04193
#3	.00394	.02610	.05970	.10087	48.695	7.4514	.04503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.758**	**3.9812**	**.00100**	**1.1076**	**.05874**	F **4445.2**	**.22814**
Stddev	.050	.0091	.00013	.0089	.00006	23.6	.00299
%RSD	.22020	.22947	12.923	.80637	.10271	.53056	1.3113
#1	22.724	3.9755	.00097	1.1099	.05869	4421.2	.22882
#2	22.733	3.9763	.00114	1.1152	.05873	4446.2	.22487
#3	22.815	3.9917	.00089	1.0978	.05881	4468.3	.23073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036545 Acquired: 2/19/2011 0:18:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.358**	F **397.24**	F **-2045.0**	**.00038**	**.00186**	F **94.712**	**.00267**
Stddev	19.725	2.17	18.6	.00309	.00133	.397	.00021
%RSD	36.287	.54700	.90795	805.53	71.517	.41912	8.0321
#1	-72.799	394.99	-2025.3	-.00270	.00277	94.345	.00288
#2	-33.561	397.40	-2047.7	.00348	.00033	94.657	.00245
#3	-56.712	399.33	-2062.1	.00037	.00248	95.133	.00266
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13238**	**.07224**	**.00741**	**.08259**	**.35590**	**17.727**
Stddev	.00022	.00127	.00132	.00076	.00218	.127
%RSD	.16620	1.7514	17.804	.91588	.61352	.71644
#1	.13215	.07272	.00840	.08345	.35384	17.616
#2	.13240	.07320	.00592	.08204	.35568	17.865
#3	.13258	.07081	.00792	.08227	.35819	17.699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75955.**	**55425.**
Stddev	260.	338.
%RSD	.34187	.60975
#1	76107.	55042.
#2	75655.	55680.
#3	76102.	55554.

Approved: February 21, 2011

Sample Name: L1102036546 Acquired: 2/19/2011 0:22:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00244**	**21.907**	**.03480**	**.02148**	**.44530**	**.00262**	**332.42**
Stddev	.00036	.241	.00222	.00119	.00329	.00002	2.48
%RSD	14.684	1.0995	6.3847	5.5224	.73819	.66335	.74494
#1	.00219	21.698	.03253	.02015	.44300	.00261	329.75
#2	.00286	21.852	.03697	.02186	.44384	.00262	332.86
#3	.00228	22.170	.03489	.02242	.44907	.00264	334.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00341**	**.02206**	**.04185**	**.15514**	**36.738**	**5.6060**	**.03353**
Stddev	.00006	.00051	.00083	.00334	.284	.1017	.00070
%RSD	1.6311	2.3255	1.9868	2.1553	.77278	1.8150	2.1019
#1	.00342	.02147	.04124	.15162	36.522	5.5492	.03281
#2	.00334	.02230	.04152	.15552	36.632	5.5453	.03422
#3	.00345	.02241	.04280	.15827	37.059	5.7234	.03356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.352**	**3.3870**	**.00108**	**.27488**	**.04672**	F **4200.8**	**.22685**
Stddev	.135	.0255	.00024	.02937	.00089	67.8	.00482
%RSD	.82682	.75287	22.403	10.686	1.8996	1.6146	2.1260
#1	16.210	3.3608	.00100	.29774	.04571	4142.7	.22215
#2	16.367	3.3886	.00089	.24175	.04737	4184.5	.22662
#3	16.479	3.4117	.00136	.28515	.04707	4275.3	.23178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036546 Acquired: 2/19/2011 0:22:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.885**	F **384.11**	F **-1007.2**	**.00403**	**.00510**	F **91.124**	**.00279**
Stddev	2.671	6.49	19.5	.00173	.00548	1.775	.00011
%RSD	4.4593	1.6902	1.9380	42.987	107.49	1.9481	3.8751
#1	-60.799	377.58	-988.44	.00600	.00613	89.647	.00281
#2	-61.979	384.18	-1005.8	.00332	.00999	90.633	.00268
#3	-56.878	390.56	-1027.4	.00276	-.00083	93.093	.00289
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13520**	**.07362**	**.00601**	**.06636**	**.28203**	**12.993**
Stddev	.00106	.00196	.00066	.00090	.00495	.221
%RSD	.78609	2.6659	10.938	1.3616	1.7555	1.6984
#1	.13400	.07401	.00677	.06553	.27713	12.937
#2	.13558	.07149	.00567	.06625	.28193	12.806
#3	.13602	.07535	.00559	.06732	.28703	13.236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76574.**	**56204.**
Stddev	183.	268.
%RSD	.23896	.47693
#1	76732.	56491.
#2	76617.	56160.
#3	76373.	55960.

Approved: February 21, 2011

Sample Name: L1102036547 Acquired: 2/19/2011 0:25:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00221**	**26.189**	**.02769**	**.02300**	**.43037**	**.00249**	**195.98**
Stddev	.00142	.156	.00206	.00073	.00250	.00001	.87
%RSD	64.218	.59425	7.4377	3.1837	.58175	.55084	.44217
#1	.00197	26.010	.02534	.02280	.42777	.00249	195.08
#2	.00092	26.274	.02853	.02238	.43058	.00251	196.03
#3	.00372	26.284	.02920	.02381	.43276	.00248	196.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**.02193**	**.04083**	**.21531**	**40.218**	**7.9230**	**.03981**
Stddev	.00014	.00044	.00097	.00205	.230	.0195	.00060
%RSD	4.6631	1.9919	2.3769	.95188	.57308	.24667	1.5182
#1	.00284	.02166	.04050	.21348	39.964	7.9020	.03973
#2	.00288	.02170	.04007	.21493	40.277	7.9264	.03925
#3	.00309	.02243	.04193	.21752	40.414	7.9406	.04045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.668**	**2.2600**	**.00149**	**.19989**	**.04128**	F **4817.9**	**.21129**
Stddev	.102	.0106	.00021	.01149	.00014	33.9	.00089
%RSD	.60921	.46831	13.854	5.7485	.35100	.70265	.42009
#1	16.569	2.2484	.00149	.20288	.04131	4791.5	.21142
#2	16.662	2.2627	.00129	.18720	.04140	4806.1	.21034
#3	16.772	2.2691	.00170	.20959	.04112	4856.1	.21210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036547 Acquired: 2/19/2011 0:25:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.785**	F **238.14**	F **-1237.7**	**.00103**	**.00421**	**70.267**	**.00427**
Stddev	12.418	1.80	5.7	.00266	.00300	.531	.00020
%RSD	27.727	.75679	.46161	257.47	71.400	.75602	4.7718
#1	-49.662	236.82	-1233.7	.00408	.00767	69.911	.00406
#2	-54.024	237.42	-1235.2	-.00083	.00243	70.013	.00430
#3	-30.669	240.20	-1244.3	-.00015	.00251	70.878	.00446
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15759**	**.07893**	**.00623**	**.06302**	**.31326**	**13.517**
Stddev	.00066	.00105	.00063	.00073	.00193	.238
%RSD	.41911	1.3310	10.087	1.1634	.61532	1.7623
#1	.15689	.07995	.00638	.06218	.31148	13.244
#2	.15765	.07898	.00678	.06349	.31299	13.683
#3	.15821	.07785	.00555	.06340	.31531	13.625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78542.**	**55559.**
Stddev	205.	76.
%RSD	.26109	.13665
#1	78497.	55613.
#2	78766.	55593.
#3	78363.	55472.

Approved: February 21, 2011

Sample Name: L1102036548 Acquired: 2/19/2011 0:29:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00230**	**25.232**	**.02981**	**.02036**	**.45763**	**.00274**	**252.87**
Stddev	.00075	.230	.00142	.00156	.00274	.00004	1.33
%RSD	32.473	.91311	4.7557	7.6675	.59921	1.3027	.52667
#1	.00172	24.968	.02906	.02192	.45470	.00271	251.46
#2	.00204	25.337	.03144	.01880	.45805	.00272	253.04
#3	.00315	25.391	.02892	.02035	.46014	.00278	254.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00314**	**.02259**	**.04370**	**.15635**	**39.692**	**6.0495**	**.03653**
Stddev	.00016	.00016	.00026	.00068	.204	.0344	.00111
%RSD	5.0463	.69517	.59976	.43174	.51360	.56794	3.0369
#1	.00315	.02271	.04350	.15558	39.484	6.0135	.03687
#2	.00330	.02241	.04400	.15685	39.699	6.0532	.03529
#3	.00298	.02265	.04361	.15661	39.892	6.0819	.03743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.643**	**2.9236**	**.00094**	**.29264**	**.04707**	F **4957.8**	**.20735**
Stddev	.091	.0144	.00013	.00251	.00009	24.1	.00233
%RSD	.54763	.49189	14.064	.85624	.18545	.48525	1.1243
#1	16.538	2.9076	.00106	.28994	.04711	4931.4	.20948
#2	16.688	2.9278	.00097	.29309	.04713	4963.4	.20486
#3	16.703	2.9354	.00080	.29489	.04697	4978.5	.20773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036548 Acquired: 2/19/2011 0:29:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.786**	F **285.07**	F **-892.41**	**.00201**	**.00131**	**86.280**	**.00332**
Stddev	11.018	1.41	3.34	.00307	.00249	.537	.00014
%RSD	18.126	.49483	.37419	152.40	190.10	.62239	4.1657
#1	-54.256	283.86	-890.50	.00555	.00209	85.814	.00339
#2	-54.596	284.73	-896.27	.00041	-.00148	86.157	.00342
#3	-73.508	286.62	-890.47	.00008	.00332	86.867	.00316
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14062**	**.07704**	**.00570**	**.06679**	**.38491**	**14.086**
Stddev	.00087	.00048	.00185	.00119	.00178	.149
%RSD	.61744	.62322	32.382	1.7742	.46169	1.0551
#1	.13972	.07748	.00383	.06552	.38335	14.221
#2	.14067	.07711	.00575	.06787	.38453	13.927
#3	.14146	.07653	.00753	.06699	.38685	14.109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79716.**	**58529.**
Stddev	256.	543.
%RSD	.32079	.92770
#1	79424.	59148.
#2	79822.	58135.
#3	79901.	58302.

Approved: February 21, 2011

Sample Name: L1102036601 Acquired: 2/19/2011 0:32:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**25.328**	**.03745**	**.02553**	**.36225**	**.00240**	**248.13**
Stddev	.00056	.344	.00415	.00170	.00521	.00005	3.74
%RSD	26.078	1.3594	11.079	6.6579	1.4378	2.1375	1.5059
#1	.00230	24.953	.03504	.02748	.35688	.00234	244.13
#2	.00151	25.401	.03508	.02442	.36259	.00241	248.72
#3	.00259	25.631	.04224	.02467	.36728	.00245	251.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00363**	**.02409**	**.04162**	**.25748**	**42.020**	**8.6598**	**.04229**
Stddev	.00010	.00041	.00093	.00606	.664	.1427	.00366
%RSD	2.8645	1.7120	2.2452	2.3542	1.5809	1.6478	8.6502
#1	.00353	.02364	.04078	.25131	41.350	8.5270	.04081
#2	.00362	.02419	.04145	.25772	42.031	8.6417	.03960
#3	.00374	.02445	.04262	.26343	42.678	8.8107	.04645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.878**	**2.4005**	**.00212**	**.41759**	**.04503**	F **10975.**	**.27034**
Stddev	.294	.0373	.00003	.01269	.00140	202.	.00505
%RSD	1.6433	1.5551	1.5716	3.0383	3.1169	1.8426	1.8674
#1	17.561	2.3617	.00212	.42683	.04350	10767.	.26491
#2	17.933	2.4038	.00215	.40313	.04535	10988.	.27122
#3	18.141	2.4361	.00209	.42282	.04625	11171.	.27489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036601 Acquired: 2/19/2011 0:32:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.018**	F **320.30**	F **-1627.6**	**.00178**	**.00597**	**73.949**	**.00734**
Stddev	7.729	6.27	32.8	.00462	.00599	1.335	.00062
%RSD	19.315	1.9569	2.0136	259.22	100.29	1.8048	8.4070
#1	-31.508	313.88	-1595.4	.00521	.01244	72.730	.00674
#2	-46.603	320.61	-1626.5	.00361	.00061	73.741	.00732
#3	-41.943	326.40	-1660.9	-.00347	.00487	75.375	.00797
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13044**	**.08573**	**.00565**	**.06442**	**.41727**	**13.175**
Stddev	.00221	.00179	.00146	.00059	.00839	.312
%RSD	1.6976	2.0883	25.813	.91397	2.0115	2.3656
#1	.12800	.08368	.00572	.06380	.40882	12.953
#2	.13100	.08699	.00707	.06448	.41738	13.531
#3	.13232	.08653	.00416	.06498	.42560	13.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77276.**	**56947.**
Stddev	12.	233.
%RSD	.01580	.40878
#1	77290.	57187.
#2	77269.	56932.
#3	77269.	56722.

Approved: February 21, 2011

Sample Name: L1102036601PS Acquired: 2/19/2011 0:36:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356965-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20306**	**27.670**	**.23977**	**1.0282**	**.84982**	**.02796**	**237.42**
Stddev	.00002	.096	.00151	.0008	.00018	.00013	.46
%RSD	.01190	.34693	.62865	.07827	.02095	.44938	.19510
#1	.20306	27.765	.23981	1.0291	.84983	.02810	237.53
#2	.20308	27.671	.23824	1.0275	.84963	.02789	236.91
#3	.20304	27.573	.24126	1.0280	.84999	.02788	237.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03005**	**.12472**	**.28281**	**.47545**	**41.210**	**34.230**	**.55956**
Stddev	.00030	.00056	.00102	.00081	.076	.097	.00179
%RSD	.98234	.44619	.36208	.16950	.18387	.28255	.32056
#1	.02977	.12420	.28387	.47530	41.289	34.159	.55966
#2	.03036	.12465	.28183	.47632	41.138	34.191	.55772
#3	.03000	.12531	.28273	.47473	41.203	34.340	.56130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.803**	**2.4995**	**.52706**	**27.217**	**.29470**	F **9603.0**	**.49829**
Stddev	.025	.0057	.00059	.050	.00016	26.0	.00237
%RSD	.11522	.22783	.11215	.18483	.05390	.27074	.47651
#1	21.824	2.5030	.52682	27.272	.29489	9606.7	.49844
#2	21.776	2.4929	.52664	27.174	.29460	9575.3	.50059
#3	21.811	2.5025	.52774	27.205	.29462	9626.9	.49585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036601PS Acquired: 2/19/2011 0:36:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356965-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.885**	F **282.01**	F **-1449.5**	**.62129**	**.21721**	F **379.31**	**.00680**
Stddev	8.958	.31	.8	.00162	.00567	1.37	.00016
%RSD	21.911	.11155	.05178	.26028	2.6122	.36036	2.3787
#1	-42.296	281.74	-1449.5	.62215	.22333	377.93	.00682
#2	-49.054	281.94	-1450.3	.61942	.21213	379.33	.00664
#3	-31.305	282.36	-1448.8	.62229	.21616	380.66	.00696
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.62460**	**.61796**	**.26259**	**.55185**	**.87917**	**12.406**
Stddev	.00118	.00037	.00173	.00111	.00247	.203
%RSD	.18966	.05924	.65955	.20121	.28112	1.6354
#1	.62449	.61830	.26245	.55240	.87648	12.490
#2	.62347	.61757	.26439	.55058	.87967	12.554
#3	.62584	.61799	.26093	.55258	.88135	12.175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73875.**	**55860.**
Stddev	624.	140.
%RSD	.84443	.25044
#1	74573.	55965.
#2	73680.	55913.
#3	73372.	55701.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/19/2011 0:39:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39766**	**10.016**	**.41055**	**.49485**	**1.0182**	**.05028**	**10.107**
Stddev	.00331	.040	.00150	.00283	.0027	.00035	.027
%RSD	.83340	.39594	.36486	.57227	.26334	.69731	.26327
#1	.40102	10.018	.41213	.49657	1.0154	.05063	10.077
#2	.39440	9.9760	.41037	.49158	1.0186	.04993	10.126
#3	.39756	10.055	.40915	.49639	1.0207	.05030	10.119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05235**	**.20698**	**.50276**	**.50548**	**4.0857**	**50.802**	**1.0232**
Stddev	.00028	.00083	.00474	.00183	.0141	.212	.0043
%RSD	.54140	.40259	.94374	.36154	.34595	.41770	.41967
#1	.05221	.20643	.50748	.50492	4.0703	50.592	1.0184
#2	.05217	.20657	.49799	.50401	4.0980	50.798	1.0246
#3	.05268	.20794	.50281	.50753	4.0889	51.016	1.0266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.223**	**.51124**	**1.0085**	**51.343**	**.51563**	F **-.55583**	**.53481**
Stddev	.010	.00229	.0017	.098	.00153	8.5302	.00113
%RSD	.09349	.44710	.16815	.19001	.29711	1534.7	.21039
#1	10.234	.50922	1.0089	51.323	.51435	.57621	.53355
#2	10.217	.51372	1.0067	51.256	.51521	-9.5955	.53518
#3	10.219	.51078	1.0100	51.449	.51733	7.3518	.53570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/19/2011 0:39:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-32.600**	**10.187**	F **16.057**	**1.2364**	**.40936**	F **4.2233**	**1.0254**
Stddev	20.347	.017	1.357	.0035	.00567	.2065	.0010
%RSD	62.413	.16383	8.4513	.28011	1.3852	4.8904	.10180
#1	-9.1452	10.186	15.047	1.2390	.41579	3.9849	1.0245
#2	-43.146	10.171	15.523	1.2325	.40724	4.3385	1.0253
#3	-45.508	10.204	17.599	1.2377	.40505	4.3466	1.0266
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0025**	**1.0519**	**.51969**	**.98287**	**1.0220**	F **1.2213**
Stddev	.0060	.0014	.00133	.00644	.0017	.2411
%RSD	.60370	.12953	.25548	.65558	.16876	19.741
#1	.99550	1.0520	.52078	.98936	1.0209	.98908
#2	1.0058	1.0533	.51821	.97648	1.0212	1.4704
#3	1.0061	1.0506	.52008	.98278	1.0240	1.2045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75581.**	**54684.**
Stddev	155.	496.
%RSD	.20526	.90673
#1	75694.	54184.
#2	75404.	55176.
#3	75645.	54692.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/19/2011 0:43:09 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00155**	**-.00993**	**.00290**	**.00084**	**-.00081**	**.00000**	**.00039**
Stddev	.00028	.00254	.00053	.00030	.00012	.0000	.00242
%RSD	18.287	25.555	18.330	35.351	14.678	4798.7	624.84
#1	.00150	-.01145	.00254	.00104	-.00095	-.00001	-.00216
#2	.00130	-.00700	.00352	.00097	-.00073	.00001	.00067
#3	.00186	-.01134	.00266	.00050	-.00076	.00000	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00009**	**-.00090**	**-.00045**	**.00088**	**.02668**	**-.00235**
Stddev	.00002	.00017	.00039	.00031	.00337	.03152	.00168
%RSD	43.005	203.21	43.095	69.817	382.18	118.15	71.290
#1	.00005	-.00026	-.00118	-.00056	-.00300	-.00496	-.00423
#2	.00004	-.00007	-.00108	-.00069	.00297	.05808	-.00183
#3	.00002	.00008	-.00046	-.00009	.00268	.02691	-.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00651**	**.00020**	**.00047**	**.03840**	**.00038**	F **-6.8153**	**.00242**
Stddev	.01793	.00068	.00011	.02127	.00041	6.4718	.00065
%RSD	275.20	346.56	22.566	55.397	108.00	94.959	26.747
#1	-.02709	.00068	.00048	.03332	.00026	-.73002	.00316
#2	.00177	-.00058	.00057	.06176	.00085	-6.1016	.00207
#3	.00578	.00049	.00036	.02013	.00005	-13.614	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/19/2011 0:43:09 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-32.619**	F **-.25387**	F **8.8647**	**-.00402**	**.00086**	**.28683**	**.00079**
Stddev	13.850	.03612	1.2378	.00290	.00234	.18726	.00051
%RSD	42.461	14.229	13.964	72.184	273.71	65.285	64.482
#1	-34.594	-.28386	9.3076	-.00503	.00117	.18819	.00023
#2	-17.887	-.21377	7.4664	-.00629	.00303	.50279	.00090
#3	-45.376	-.26398	9.8202	-.00075	-.00163	.16952	.00123
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00080**	**.00163**	**-.00015**	**.00000**	F **.23627**
Stddev	.00015	.00088	.00048	.00006	.0001	.14129
%RSD	85.082	110.12	29.238	42.392	5251.3	59.801
#1	-.00034	-.00181	.00200	-.00008	.00004	.08586
#2	-.00011	-.00015	.00109	-.00018	.00003	.25675
#3	-.00007	-.00045	.00180	-.00019	-.00007	.36621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76186.**	**54825.**
Stddev	392.	264.
%RSD	.51419	.48154
#1	76466.	54753.
#2	76354.	55117.
#3	75738.	54604.

Approved: February 21, 2011

Sample Name: L1102036601SDL Acquired: 2/19/2011 0:46:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356965-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00179**	**5.2897**	**.00805**	**.00543**	**.06981**	**.00050**	**48.364**
Stddev	.00028	.0820	.00092	.00264	.00044	.00002	.152
%RSD	15.499	1.5505	11.407	48.660	.62576	4.9968	.31479
#1	.00150	5.1974	.00701	.00835	.06944	.00048	48.194
#2	.00182	5.3176	.00875	.00470	.06970	.00052	48.409
#3	.00206	5.3542	.00839	.00322	.07030	.00049	48.488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00477**	**.00814**	**.04682**	**8.2151**	**1.6917**	**.00598**
Stddev	.00007	.00024	.00003	.00083	.0088	.0753	.00467
%RSD	12.621	5.0515	.39433	1.7735	.10765	4.4505	78.160
#1	.00056	.00465	.00810	.04693	8.2058	1.7551	.00189
#2	.00054	.00462	.00816	.04594	8.2234	1.6085	.01107
#3	.00068	.00505	.00815	.04759	8.2161	1.7113	.00497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.5904**	**.47450**	**.00024**	**.09845**	**.00818**	F **1955.8**	**.05158**
Stddev	.0148	.00147	.00012	.00877	.00033	12.3	.00086
%RSD	.41193	.30918	50.370	8.9088	3.9971	.62890	1.6710
#1	3.6030	.47387	.00026	.10082	.00846	1948.9	.05182
#2	3.5741	.47346	.00034	.10579	.00782	1948.5	.05062
#3	3.5941	.47618	.00011	.08874	.00825	1970.0	.05230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036601SDL Acquired: 2/19/2011 0:46:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG356965-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.4347**	F **60.466**	F **-283.11**	**-.00159**	**.00108**	**12.749**	**.00118**
Stddev	15.062	.257	1.36	.00227	.00315	.202	.00021
%RSD	618.64	.42451	.47880	142.71	292.99	1.5823	17.735
#1	-17.182	60.248	-282.55	-.00421	-.00052	12.700	.00139
#2	12.923	60.401	-284.65	-.00027	-.00096	12.971	.00098
#3	-3.0452	60.749	-282.12	-.00029	.00471	12.577	.00117
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02521**	**.01481**	**.00291**	**.01220**	**.07789**	**2.3755**
Stddev	.00008	.00034	.00070	.00002	.00035	.2587
%RSD	.31751	2.3043	24.191	.15313	.45188	10.889
#1	.02529	.01505	.00211	.01218	.07761	2.6577
#2	.02513	.01497	.00314	.01222	.07778	2.1496
#3	.02520	.01442	.00346	.01221	.07828	2.3191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77464.**	**54472.**
Stddev	325.	614.
%RSD	.41940	1.1278
#1	77385.	55128.
#2	77821.	54380.
#3	77185.	53910.

Approved: February 21, 2011

Sample Name: L1102036601SDL Acquired: 2/19/2011 0:50:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356965-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**1.0503**	**.00190**	**-.00006**	**.01291**	**.00007**	**9.3554**
Stddev	.00067	.0148	.00085	.00066	.00032	.00003	.0328
%RSD	81.011	1.4088	44.774	1190.4	2.5076	35.336	.35055
#1	.00151	1.0398	.00169	-.00051	.01280	.00006	9.3715
#2	.00076	1.0438	.00117	-.00035	.01267	.00010	9.3177
#3	.00019	1.0672	.00283	.00070	.01328	.00005	9.3770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00089**	**.00159**	**.00895**	**1.5482**	**.28129**	**.00077**
Stddev	.00007	.00028	.00034	.00035	.0146	.04017	.00329
%RSD	4307.8	30.918	21.484	3.9331	.94391	14.282	428.79
#1	-.00007	.00109	.00198	.00856	1.5650	.30301	.00340
#2	.00002	.00058	.00134	.00923	1.5410	.23493	-.00292
#3	.00006	.00100	.00146	.00908	1.5385	.30593	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.71182**	**.09251**	**-.00037**	**.02961**	**.00167**	**356.96**	**.01154**
Stddev	.01786	.00150	.00020	.02592	.00061	10.28	.00100
%RSD	2.5085	1.6251	54.091	87.556	36.336	2.8800	8.6991
#1	.71920	.09142	-.00059	.04887	.00211	366.27	.01110
#2	.69146	.09422	-.00020	.03981	.00098	358.70	.01269
#3	.72480	.09188	-.00033	.00013	.00193	345.93	.01083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 21, 2011

Sample Name: L1102036601SDL Acquired: 2/19/2011 0:50:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG356965-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-22.171**	F **11.421**	F **-42.666**	**-.00553**	**-.00071**	**2.0625**	**.00006**
Stddev	6.486	.011	1.051	.00059	.00114	.0600	.00007
%RSD	29.255	.09400	2.4641	10.627	160.17	2.9089	119.42
#1	-16.851	11.432	-41.561	-.00620	.00044	2.0365	.00006
#2	-29.396	11.411	-42.783	-.00509	-.00184	2.0199	.00014
#3	-20.266	11.419	-43.654	-.00531	-.00073	2.1311	-.00001
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00470**	**.00298**	**.00225**	**.00268**	**.01601**	**.54099**
Stddev	.00023	.00010	.00114	.00025	.00010	.35989
%RSD	4.8986	3.5183	50.512	9.2342	.60187	66.525
#1	.00494	.00308	.00095	.00273	.01590	.12593
#2	.00466	.00288	.00308	.00242	.01604	.73064
#3	.00449	.00299	.00271	.00291	.01609	.76640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77437.**	**54689.**
Stddev	256.	209.
%RSD	.33077	.38285
#1	77692.	54839.
#2	77439.	54779.
#3	77179.	54450.

Approved: February 21, 2011

Sample Name: L1102036602 Acquired: 2/19/2011 0:54:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00256**	**29.238**	**.03812**	**.02433**	**.47869**	**.00301**	**309.01**
Stddev	.00120	.324	.00059	.00090	.00615	.00004	3.37
%RSD	46.808	1.1073	1.5351	3.7002	1.2851	1.1834	1.0912
#1	.00153	28.874	.03820	.02333	.47208	.00298	305.60
#2	.00388	29.350	.03865	.02457	.47973	.00299	309.09
#3	.00228	29.492	.03749	.02508	.48425	.00305	312.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00375**	**.02572**	**.05008**	**.18616**	**42.711**	**6.8404**	**.04422**
Stddev	.00012	.00044	.00086	.00331	.532	.0514	.00125
%RSD	3.3134	1.6980	1.7072	1.7763	1.2445	.75063	2.8203
#1	.00372	.02533	.04914	.18322	42.135	6.7811	.04343
#2	.00365	.02565	.05031	.18551	42.816	6.8717	.04566
#3	.00389	.02619	.05080	.18974	43.183	6.8684	.04357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.893**	**3.5371**	**.00140**	**.51458**	**.05403**	F **8594.8**	**.26119**
Stddev	.196	.0373	.00009	.00695	.00161	147.6	.00381
%RSD	1.0979	1.0546	6.3704	1.3497	2.9708	1.7176	1.4575
#1	17.705	3.5004	.00147	.50915	.05218	8445.1	.25715
#2	17.879	3.5360	.00130	.51217	.05510	8598.9	.26173
#3	18.097	3.5750	.00142	.52240	.05481	8740.3	.26471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036602 Acquired: 2/19/2011 0:54:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-39.774**	F **370.76**	F **-1299.1**	**.00069**	**.00804**	**86.422**	**.00461**
Stddev	12.707	6.44	17.5	.00041	.00111	1.527	.00025
%RSD	31.948	1.7366	1.3452	59.635	13.755	1.7673	5.4085
#1	-50.799	364.40	-1284.4	.00099	.00811	84.893	.00469
#2	-42.647	370.61	-1294.5	.00022	.00691	86.426	.00432
#3	-25.877	377.28	-1318.4	.00086	.00912	87.947	.00480
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13329**	**.07968**	**.00709**	**.08120**	**.38295**	**14.899**
Stddev	.00141	.00227	.00147	.00140	.00726	.284
%RSD	1.0607	2.8523	20.693	1.7225	1.8958	1.9045
#1	.13181	.07865	.00726	.07967	.37567	14.775
#2	.13343	.07811	.00555	.08153	.38299	15.224
#3	.13463	.08229	.00847	.08241	.39019	14.698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76371.**	**55836.**
Stddev	236.	109.
%RSD	.30864	.19468
#1	76595.	55813.
#2	76392.	55740.
#3	76125.	55954.

Approved: February 21, 2011

Sample Name: L1102036603 Acquired: 2/19/2011 0:57:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**25.590**	**.03172**	**.03071**	**.45746**	**.00274**	**235.38**
Stddev	.00059	.283	.00154	.00118	.00412	.00006	2.15
%RSD	28.155	1.1046	4.8687	3.8484	.89977	2.3122	.91225
#1	.00235	25.291	.03098	.03070	.45312	.00268	233.29
#2	.00249	25.626	.03069	.02953	.45796	.00275	235.27
#3	.00141	25.853	.03350	.03189	.46131	.00280	237.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**.02461**	**.04258**	**.33874**	**45.029**	**9.8356**	**.03971**
Stddev	.00019	.00039	.00105	.00699	.440	.0959	.00063
%RSD	4.9496	1.5681	2.4655	2.0628	.97768	.97487	1.5842
#1	.00371	.02436	.04282	.33216	44.552	9.8164	.03900
#2	.00370	.02442	.04143	.33800	45.117	9.7507	.03992
#3	.00403	.02506	.04349	.34607	45.419	9.9396	.04021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.386**	**2.6643**	**.00299**	**.45092**	**.04631**	F **8580.4**	**.23179**
Stddev	.143	.0242	.00009	.01760	.00072	147.6	.00291
%RSD	.87348	.90671	3.0833	3.9025	1.5644	1.7200	1.2572
#1	16.266	2.6398	.00296	.43795	.04547	8436.2	.22970
#2	16.348	2.6652	.00291	.47095	.04672	8573.8	.23054
#3	16.544	2.6881	.00309	.44386	.04673	8731.2	.23512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036603 Acquired: 2/19/2011 0:57:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-70.171**	F **303.57**	F **-1641.3**	**.00077**	**.00755**	**79.363**	**.00437**
Stddev	11.577	5.43	27.7	.00336	.00327	1.352	.00028
%RSD	16.499	1.7878	1.6882	437.43	43.319	1.7036	6.4886
#1	-78.405	298.18	-1610.2	-.00286	.00466	77.905	.00427
#2	-75.175	303.49	-1650.6	.00139	.01110	79.609	.00469
#3	-56.933	309.04	-1663.2	.00378	.00690	80.576	.00415
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20868**	**.08827**	**.00658**	**.06613**	**.40364**	**16.368**
Stddev	.00218	.00148	.00125	.00059	.00761	.501
%RSD	1.0423	1.6780	19.032	.89812	1.8862	3.0612
#1	.20658	.08901	.00516	.06624	.39631	15.844
#2	.20853	.08923	.00703	.06549	.40311	16.843
#3	.21092	.08656	.00754	.06667	.41151	16.417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78477.**	**58469.**
Stddev	179.	108.
%RSD	.22813	.18421
#1	78558.	58345.
#2	78601.	58538.
#3	78272.	58524.

Approved: February 21, 2011

Sample Name: L1102036604 Acquired: 2/19/2011 1:01:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**25.230**	**.03104**	**.02731**	**.47308**	**.00285**	**241.13**
Stddev	.00038	.391	.00017	.00027	.00550	.00005	1.87
%RSD	17.708	1.5515	.53427	.99774	1.1621	1.6940	.77528
#1	.00221	24.829	.03120	.02706	.46697	.00279	239.16
#2	.00172	25.251	.03087	.02726	.47465	.00286	241.35
#3	.00246	25.611	.03105	.02760	.47763	.00289	242.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00298**	**.02717**	**.04730**	**.23298**	**46.520**	**7.9789**	**.03294**
Stddev	.00006	.00041	.00097	.00318	.520	.1447	.00463
%RSD	2.0328	1.4969	2.0522	1.3669	1.1168	1.8132	14.048
#1	.00292	.02670	.04635	.22997	45.955	7.8124	.02796
#2	.00304	.02741	.04726	.23266	46.628	8.0507	.03710
#3	.00298	.02740	.04829	.23632	46.977	8.0737	.03377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.080**	**2.6997**	**.00178**	**.97378**	**.04952**	F **4434.8**	**.18973**
Stddev	.161	.0271	.00017	.00856	.00088	59.4	.00207
%RSD	1.0000	1.0032	9.6459	.87881	1.7746	1.3391	1.0900
#1	15.928	2.6701	.00188	.97439	.04925	4375.5	.18739
#2	16.062	2.7059	.00187	.98201	.04882	4434.4	.19132
#3	16.249	2.7232	.00158	.96493	.05051	4494.3	.19048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036604 Acquired: 2/19/2011 1:01:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-63.830**	F **296.93**	F **-1395.3**	**.00253**	**.00681**	**82.659**	**.00622**
Stddev	12.743	3.93	9.5	.00347	.00489	1.580	.00025
%RSD	19.964	1.3225	.68197	137.46	71.883	1.9110	3.9787
#1	-74.846	293.03	-1384.3	.00428	.00201	81.036	.00647
#2	-66.772	296.89	-1400.9	-.00147	.00662	82.748	.00621
#3	-49.874	300.88	-1400.6	.00477	.01179	84.192	.00598
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15836**	**.09120**	**.00643**	**.07021**	**.26834**	**17.260**
Stddev	.00085	.00222	.00113	.00102	.00386	.217
%RSD	.53406	2.4385	17.534	1.4588	1.4383	1.2561
#1	.15742	.08939	.00646	.06914	.26435	17.018
#2	.15858	.09054	.00754	.07031	.26860	17.324
#3	.15907	.09368	.00529	.07119	.27206	17.437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77452.**	**57692.**
Stddev	65.	244.
%RSD	.08442	.42308
#1	77509.	57968.
#2	77466.	57605.
#3	77380.	57503.

Approved: February 21, 2011

Sample Name: L1102036605 Acquired: 2/19/2011 1:04:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**26.328**	**.03342**	**.02828**	**.47667**	**.00286**	**252.71**
Stddev	.00048	.615	.00165	.00076	.00851	.00008	4.09
%RSD	22.328	2.3375	4.9484	2.6899	1.7847	2.8196	1.6178
#1	.00254	25.681	.03200	.02740	.46842	.00277	248.30
#2	.00161	26.397	.03303	.02879	.47616	.00289	253.45
#3	.00229	26.906	.03524	.02865	.48541	.00293	256.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00438**	**.02616**	**.04905**	**.19817**	**44.195**	**7.6962**	**.03941**
Stddev	.00022	.00072	.00159	.00483	.813	.0527	.00057
%RSD	5.1041	2.7359	3.2345	2.4391	1.8399	.68414	1.4563
#1	.00413	.02544	.04751	.19347	43.409	7.6364	.03938
#2	.00453	.02617	.04896	.19792	44.144	7.7356	.04000
#3	.00450	.02687	.05068	.20313	45.033	7.7166	.03885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.245**	**3.2796**	**.00201**	**.33118**	**.05221**	F **9828.3**	**.24907**
Stddev	.302	.0512	.00020	.00599	.00188	238.4	.00662
%RSD	1.6561	1.5613	10.078	1.8097	3.5917	2.4257	2.6561
#1	17.930	3.2267	.00224	.33379	.05027	9596.3	.24206
#2	18.274	3.2834	.00187	.33543	.05234	9815.8	.24995
#3	18.532	3.3289	.00191	.32432	.05402	10073.	.25520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036605 Acquired: 2/19/2011 1:04:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.997**	F **325.66**	F **-1551.7**	**.00246**	**.00635**	**87.686**	**.00391**
Stddev	21.752	8.39	30.4	.00167	.00121	2.282	.00011
%RSD	44.395	2.5749	1.9565	67.751	19.080	2.6022	2.8214
#1	-65.347	317.80	-1522.6	.00375	.00774	85.516	.00388
#2	-57.335	324.69	-1549.4	.00307	.00566	87.477	.00382
#3	-24.310	334.48	-1583.2	.00058	.00563	90.065	.00403
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20976**	**.09326**	**.00725**	**.06999**	**.45276**	**17.667**
Stddev	.00314	.00092	.00145	.00113	.01234	.483
%RSD	1.4980	.98121	19.930	1.6097	2.7258	2.7350
#1	.20639	.09232	.00745	.06892	.44087	17.299
#2	.21028	.09330	.00859	.06988	.45189	17.486
#3	.21261	.09415	.00572	.07116	.46551	18.214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77414.**	**56856.**
Stddev	523.	164.
%RSD	.67538	.28817
#1	77753.	57045.
#2	77677.	56760.
#3	76812.	56762.

Approved: February 21, 2011

Sample Name: L1102036606 Acquired: 2/19/2011 1:08:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00264**	**35.260**	**.03847**	**.02977**	**.50528**	**.00361**	**338.36**
Stddev	.00048	.502	.00133	.00148	.00275	.00003	1.80
%RSD	18.067	1.4244	3.4572	4.9726	.54377	.94107	.53307
#1	.00209	34.680	.03844	.02808	.50280	.00358	336.43
#2	.00290	35.531	.03982	.03045	.50480	.00365	338.63
#3	.00293	35.569	.03716	.03079	.50824	.00360	340.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00395**	**.02719**	**.06355**	**.11132**	**50.934**	**7.2497**	**.05445**
Stddev	.00007	.00051	.00071	.00107	.286	.0283	.00328
%RSD	1.6511	1.8586	1.1117	.96080	.56128	.38989	6.0217
#1	.00390	.02662	.06284	.11032	50.662	7.2257	.05115
#2	.00393	.02739	.06355	.11120	50.910	7.2808	.05770
#3	.00402	.02758	.06426	.11245	51.232	7.2425	.05450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.479**	**3.9805**	**.00152**	**.91215**	**.06275**	F **9168.5**	**.24277**
Stddev	.152	.0285	.00013	.01919	.00035	119.2	.00541
%RSD	.64602	.71675	8.4321	2.1039	.55178	1.3004	2.2265
#1	23.353	3.9507	.00145	.93184	.06238	9054.3	.23687
#2	23.436	3.9832	.00143	.89350	.06307	9158.9	.24747
#3	23.647	4.0076	.00166	.91111	.06280	9292.2	.24398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036606 Acquired: 2/19/2011 1:08:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.617**	F **382.86**	F **-947.64**	**.00042**	**.00679**	F **91.498**	**.00277**
Stddev	7.697	4.98	6.54	.00089	.00139	.965	.00044
%RSD	16.164	1.2995	.69054	212.50	20.486	1.0546	15.865
#1	-39.641	377.96	-940.20	.00068	.00597	90.530	.00256
#2	-48.211	382.70	-952.50	-.00057	.00600	91.505	.00248
#3	-55.000	387.91	-950.23	.00115	.00839	92.459	.00328
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14381**	**.07573**	**.00780**	**.09049**	**.39972**	**16.724**
Stddev	.00050	.00059	.00132	.00084	.00498	.225
%RSD	.34733	.77529	16.866	.93370	1.2460	1.3474
#1	.14344	.07543	.00675	.08957	.39489	16.467
#2	.14361	.07536	.00927	.09123	.39943	16.820
#3	.14438	.07641	.00736	.09067	.40484	16.885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75612.**	**55773.**
Stddev	295.	430.
%RSD	.39008	.77012
#1	75935.	56243.
#2	75543.	55401.
#3	75358.	55674.

Approved: February 21, 2011

Sample Name: L1102036607 Acquired: 2/19/2011 1:11:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00282**	**31.259**	**.03245**	**.03076**	**.46438**	**.00308**	**263.97**
Stddev	.00038	.509	.00070	.00108	.00307	.00003	1.53
%RSD	13.625	1.6279	2.1720	3.5203	.66021	1.0128	.58059
#1	.00294	30.675	.03170	.02954	.46097	.00305	262.29
#2	.00312	31.606	.03254	.03160	.46526	.00312	264.35
#3	.00238	31.496	.03310	.03115	.46691	.00308	265.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00389**	**.02455**	**.05036**	**.26236**	**49.102**	**10.374**	**.04523**
Stddev	.00007	.00035	.00066	.00309	.336	.018	.00258
%RSD	1.7491	1.4404	1.3048	1.1796	.68522	.17192	5.7148
#1	.00386	.02419	.04968	.25904	48.727	10.356	.04705
#2	.00384	.02458	.05099	.26287	49.200	10.373	.04227
#3	.00397	.02489	.05041	.26516	49.378	10.392	.04638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.802**	**2.8601**	**.00262**	**.37336**	**.05077**	F **8398.1**	**.25289**
Stddev	.130	.0137	.00044	.03243	.00100	95.6	.00347
%RSD	.69342	.48028	16.800	8.6854	1.9632	1.1380	1.3717
#1	18.653	2.8447	.00299	.38314	.05100	8308.7	.25112
#2	18.862	2.8643	.00213	.33717	.04967	8386.7	.25066
#3	18.893	2.8712	.00273	.39977	.05162	8498.9	.25689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036607 Acquired: 2/19/2011 1:11:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.094**	F **324.14**	F **-1569.9**	**.00067**	**.00243**	**70.998**	**.00443**
Stddev	9.447	4.22	16.1	.00222	.00276	.858	.00045
%RSD	17.146	1.3032	1.0235	333.96	113.36	1.2083	10.166
#1	-60.556	320.12	-1555.7	.00154	.00519	70.250	.00419
#2	-44.186	323.75	-1566.7	-.00186	.00244	70.810	.00495
#3	-60.541	328.54	-1587.4	.00232	-.00033	71.934	.00415
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20649**	**.08651**	**.00633**	**.07132**	**.52929**	**16.455**
Stddev	.00078	.00093	.00150	.00107	.00673	.368
%RSD	.37687	1.0727	23.708	1.5020	1.2706	2.2365
#1	.20561	.08662	.00803	.07020	.52256	16.038
#2	.20676	.08553	.00577	.07233	.52930	16.596
#3	.20710	.08738	.00518	.07144	.53601	16.732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77095.**	**57174.**
Stddev	382.	290.
%RSD	.49544	.50748
#1	77445.	57400.
#2	77151.	56847.
#3	76688.	57275.

Approved: February 21, 2011

Sample Name: L1102036608 Acquired: 2/19/2011 1:15:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00335**	**29.473**	**.03409**	**.02609**	**.47495**	**.00325**	**361.17**
Stddev	.00015	.605	.00130	.00132	.00533	.00010	4.38
%RSD	4.5563	2.0511	3.8048	5.0721	1.1226	2.9968	1.2116
#1	.00345	28.777	.03507	.02462	.46943	.00313	356.45
#2	.00341	29.784	.03458	.02646	.47536	.00329	361.99
#3	.00317	29.860	.03262	.02719	.48007	.00331	365.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00367**	**.02536**	**.04960**	**.20550**	**44.521**	**8.1723**	**.04300**
Stddev	.00012	.00072	.00135	.00432	.528	.0932	.00292
%RSD	3.1537	2.8375	2.7295	2.1025	1.1853	1.1406	6.7987
#1	.00355	.02461	.04849	.20102	43.983	8.0664	.04422
#2	.00368	.02544	.05111	.20584	44.543	8.2417	.04512
#3	.00378	.02604	.04921	.20965	45.038	8.2089	.03967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.372**	**2.9792**	**.00125**	**.51023**	**.05277**	F **5967.9**	**.21347**
Stddev	.230	.0366	.00027	.01626	.00141	121.2	.00518
%RSD	1.1850	1.2287	21.771	3.1860	2.6663	2.0303	2.4263
#1	19.133	2.9408	.00109	.49191	.05146	5848.7	.20750
#2	19.392	2.9830	.00110	.52294	.05260	5964.0	.21672
#3	19.591	3.0137	.00157	.51584	.05426	6090.9	.21619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036608 Acquired: 2/19/2011 1:15:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-45.641**	F **432.87**	F **-1365.5**	**.00218**	**.00366**	**89.181**	**.00351**
Stddev	13.669	8.16	26.2	.00310	.00120	1.862	.00052
%RSD	29.948	1.8863	1.9163	142.22	32.709	2.0879	14.840
#1	-47.593	425.01	-1337.4	-.00003	.00461	87.359	.00355
#2	-31.101	432.29	-1370.0	.00085	.00406	89.103	.00297
#3	-58.229	441.31	-1389.1	.00573	.00232	91.080	.00402
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18227**	**.07598**	**.00572**	**.07544**	**.36036**	**16.695**
Stddev	.00183	.00185	.00112	.00194	.00722	.489
%RSD	1.0039	2.4313	19.568	2.5718	2.0035	2.9309
#1	.18035	.07528	.00447	.07320	.35343	16.143
#2	.18245	.07457	.00607	.07667	.35982	16.864
#3	.18400	.07807	.00662	.07645	.36784	17.077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**75573.**	**55390.**
Stddev	60.	498.
%RSD	.07877	.89883
#1	75528.	55965.
#2	75640.	55113.
#3	75550.	55093.

Approved: February 21, 2011

Sample Name: L1102036609 Acquired: 2/19/2011 1:18:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**23.978**	**.03015**	**.02627**	**.44005**	**.00270**	**224.28**
Stddev	.00035	.127	.00086	.00098	.00419	.00002	2.09
%RSD	18.184	.53145	2.8537	3.7487	.95114	.66929	.93387
#1	.00153	23.844	.02927	.02528	.43556	.00268	222.28
#2	.00199	23.993	.03018	.02627	.44074	.00272	224.10
#3	.00221	24.098	.03099	.02725	.44384	.00271	226.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00396**	**.02362**	**.04514**	**.20580**	**42.926**	**7.6906**	**.03814**
Stddev	.00005	.00036	.00073	.00262	.328	.0974	.00114
%RSD	1.2153	1.5190	1.6281	1.2738	.76519	1.2660	2.9973
#1	.00395	.02330	.04481	.20346	42.561	7.6163	.03743
#2	.00392	.02357	.04463	.20532	43.017	7.6547	.03946
#3	.00401	.02401	.04598	.20863	43.199	7.8008	.03753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.624**	**3.0348**	**.00142**	**.48130**	**.04720**	F **11473.**	**.20338**
Stddev	.179	.0300	.00022	.01152	.00115	177.	.00316
%RSD	1.0160	.98902	15.775	2.3927	2.4345	1.5458	1.5556
#1	17.446	3.0073	.00139	.49309	.04626	11285.	.20182
#2	17.622	3.0301	.00165	.47008	.04687	11497.	.20130
#3	17.804	3.0668	.00121	.48073	.04848	11637.	.20702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036609 Acquired: 2/19/2011 1:18:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.936**	F **286.70**	F **-1597.9**	**.00089**	**.00242**	**75.053**	**.00398**
Stddev	9.429	4.37	23.9	.00124	.00391	1.494	.00010
%RSD	15.474	1.5226	1.4984	140.01	161.83	1.9907	2.5418
#1	-51.467	282.41	-1575.7	.00226	.00330	73.698	.00392
#2	-61.016	286.55	-1594.7	-.00015	-.00186	74.807	.00409
#3	-70.325	291.14	-1623.3	.00054	.00582	76.656	.00391
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13523**	**.08501**	**.00738**	**.06802**	**.65701**	**14.291**
Stddev	.00173	.00209	.00088	.00063	.01119	.128
%RSD	1.2807	2.4536	11.869	.93009	1.7034	.89668
#1	.13349	.08731	.00779	.06735	.64551	14.423
#2	.13524	.08324	.00797	.06809	.65765	14.168
#3	.13696	.08448	.00637	.06861	.66786	14.282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78059.**	**57427.**
Stddev	190.	159.
%RSD	.24368	.27644
#1	78277.	57527.
#2	77977.	57510.
#3	77925.	57244.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/19/2011 1:22:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39036**	**9.7901**	**.40621**	**.48319**	**1.0023**	**.04888**	**10.037**
Stddev	.00253	.0919	.00181	.00178	.0026	.00019	.037
%RSD	.64737	.93818	.44485	.36844	.26191	.38672	.37360
#1	.39165	9.8921	.40565	.48384	.99957	.04903	9.9947
#2	.38745	9.7139	.40475	.48118	1.0048	.04866	10.065
#3	.39199	9.7644	.40823	.48456	1.0026	.04894	10.052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05109**	**.20292**	**.48878**	**.50181**	**4.0134**	**50.473**	**1.0061**
Stddev	.00025	.00056	.00219	.00051	.0073	.146	.0034
%RSD	.48555	.27699	.44811	.10194	.18263	.28885	.33618
#1	.05138	.20268	.49079	.50145	4.0049	50.323	1.0022
#2	.05094	.20253	.48645	.50159	4.0178	50.483	1.0082
#3	.05095	.20357	.48910	.50240	4.0174	50.614	1.0078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.121**	**.50618**	**.99913**	**50.480**	**.50879**	F **16.159**	**.51775**
Stddev	.042	.00146	.00236	.171	.00180	8.017	.00331
%RSD	.41915	.28818	.23662	.33896	.35442	49.611	.63846
#1	10.076	.50494	.99832	50.333	.50826	8.9656	.52157
#2	10.126	.50582	.99727	50.668	.50731	14.711	.51577
#3	10.160	.50779	1.0018	50.439	.51080	24.802	.51592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/19/2011 1:22:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.791**	**9.9944**	F **18.633**	**1.2203**	**.40423**	F **4.4029**	**1.0141**
Stddev	11.650	.0840	1.287	.0054	.00149	.2817	.0019
%RSD	27.877	.84020	6.9062	.44581	.36850	6.3977	.19026
#1	-51.651	10.023	18.194	1.2209	.40373	4.1295	1.0145
#2	-28.936	10.060	17.624	1.2146	.40306	4.3869	1.0120
#3	-44.785	9.8998	20.082	1.2254	.40591	4.6922	1.0158
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0015**	**1.0322**	**.50998**	**.96632**	**1.0086**	F **1.1539**
Stddev	.0008	.0073	.00137	.00427	.0011	.1204
%RSD	.08490	.70456	.26939	.44234	.10569	10.433
#1	1.0013	1.0293	.50892	.96885	1.0097	1.2017
#2	1.0007	1.0268	.51153	.96139	1.0075	1.2431
#3	1.0024	1.0405	.50948	.96873	1.0086	1.0170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76376.**	**55204.**
Stddev	1162.	322.
%RSD	1.5214	.58356
#1	75725.	54955.
#2	75685.	55568.
#3	77717.	55089.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/19/2011 1:25:55 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.01573**	**.00231**	**.00036**	**-.00072**	**.00005**	**.00580**
Stddev	.00060	.00255	.00238	.00166	.00007	.00001	.01121
%RSD	84.566	16.227	102.90	465.06	9.9808	20.292	193.12
#1	.00020	-.01407	.00500	.00048	-.00078	.00006	.01470
#2	.00056	-.01444	.00047	.00195	-.00073	.00004	-.00679
#3	.00138	-.01867	.00147	-.00136	-.00064	.00006	.00950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00015**	**-.00083**	**-.00088**	**.00231**	**.00639**	**-.00090**
Stddev	.00006	.00003	.00043	.00041	.00404	.04356	.00467
%RSD	154.88	20.865	51.405	47.089	174.72	681.17	517.80
#1	-.00010	.00017	-.00034	-.00061	.00617	.05559	.00424
#2	.00001	.00012	-.00107	-.00135	-.00189	-.02730	-.00206
#3	-.00002	.00017	-.00110	-.00067	.00266	-.00910	-.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00971**	**-.00011**	**.00066**	**.02930**	**.00107**	F **4.8878**	**.00279**
Stddev	.00146	.00049	.00010	.00252	.00033	11.094	.00163
%RSD	14.983	450.34	15.503	8.6108	30.562	226.97	58.556
#1	.01130	.00030	.00055	.03152	.00089	-4.3045	.00168
#2	.00939	-.00065	.00076	.02982	.00087	17.211	.00466
#3	.00845	.00003	.00067	.02655	.00145	1.7571	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/19/2011 1:25:55 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-45.133**	F **-.21444**	F **9.5229**	**-.00510**	**.00468**	**.06588**	**.00052**
Stddev	6.454	.05042	.5472	.00159	.00317	.03749	.00029
%RSD	14.301	23.515	5.7464	31.138	67.761	56.902	55.733
#1	-51.597	-.24207	8.8965	-.00630	.00831	.04135	.00026
#2	-45.112	-.24501	9.9079	-.00569	.00247	.10904	.00082
#3	-38.688	-.15624	9.7645	-.00330	.00325	.04726	.00046
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00055**	**.00151**	**-.00020**	**.00008**	F **.54541**
Stddev	.00022	.00205	.00125	.00031	.00004	.11391
%RSD	75.215	375.19	83.058	151.48	53.291	20.886
#1	-.00019	.00119	.00052	-.00054	.00003	.67645
#2	-.00014	-.00175	.00292	.00007	.00012	.48982
#3	-.00054	.00220	.00109	-.00014	.00009	.46997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79935.**	**57631.**
Stddev	154.	309.
%RSD	.19232	.53656
#1	79965.	57735.
#2	79768.	57283.
#3	80071.	57875.

Approved: February 21, 2011

Sample Name: L1102036610 Acquired: 2/19/2011 1:29:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356912-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00238**	**34.462**	**.03984**	**.02944**	**.51552**	**.00374**	**323.81**
Stddev	.00018	.275	.00367	.00058	.00304	.00004	2.51
%RSD	7.4152	.79805	9.2161	1.9711	.58982	1.1479	.77646
#1	.00231	34.170	.03563	.02967	.51219	.00370	321.24
#2	.00257	34.716	.04238	.02877	.51625	.00376	323.93
#3	.00224	34.501	.04150	.02986	.51813	.00378	326.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00447**	**.02819**	**.06420**	**.15880**	**53.322**	**8.9477**	**.05642**
Stddev	.00007	.00029	.00034	.00240	.361	.0671	.00354
%RSD	1.4695	1.0425	.52857	1.5129	.67749	.74961	6.2801
#1	.00450	.02797	.06395	.15609	52.915	8.9651	.06017
#2	.00440	.02808	.06407	.15966	53.449	8.8737	.05313
#3	.00452	.02853	.06459	.16066	53.603	9.0044	.05596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.123**	**3.9517**	**.00157**	**.62932**	**.06355**	F **10124.**	**.25683**
Stddev	.149	.0257	.00012	.01569	.00076	73.	.00056
%RSD	.61919	.64955	7.4655	2.4938	1.1935	.71757	.21824
#1	23.976	3.9239	.00169	.61176	.06288	10055.	.25676
#2	24.118	3.9568	.00157	.64198	.06341	10117.	.25630
#3	24.275	3.9745	.00146	.63422	.06437	10200.	.25742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036610 Acquired: 2/19/2011 1:29:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356912-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.421**	F **379.09**	F **-1336.3**	**.00361**	**.00580**	**86.685**	**.00409**
Stddev	4.587	3.82	13.2	.00320	.00506	.416	.00053
%RSD	9.4738	1.0071	.98474	88.863	87.130	.47955	12.899
#1	-43.854	375.26	-1323.6	.00698	.00668	86.464	.00408
#2	-53.029	379.11	-1335.6	.00060	.00037	86.427	.00357
#3	-48.378	382.90	-1349.8	.00323	.01037	87.165	.00462
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15885**	**.08073**	**.00778**	**.08766**	**.45484**	**18.083**
Stddev	.00119	.00039	.00139	.00077	.00479	.425
%RSD	.74835	.47701	17.838	.87892	1.0535	2.3519
#1	.15757	.08038	.00643	.08689	.45039	17.774
#2	.15906	.08115	.00771	.08767	.45422	18.568
#3	.15992	.08068	.00920	.08843	.45991	17.906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77209.**	**57579.**
Stddev	142.	94.
%RSD	.18391	.16348
#1	77264.	57572.
#2	77316.	57677.
#3	77048.	57489.

Approved: February 21, 2011

Sample Name: L1102036611S Acquired: 2/19/2011 1:33:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356912-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04126**	**34.219**	**.07830**	**.03044**	**.51433**	**.00366**	**319.57**
Stddev	.00047	.211	.00054	.00105	.00230	.00002	1.29
%RSD	1.1461	.61767	.69267	3.4409	.44803	.50887	.40360
#1	.04179	34.452	.07768	.02949	.51354	.00364	318.30
#2	.04106	34.163	.07854	.03028	.51253	.00367	319.54
#3	.04091	34.041	.07868	.03156	.51693	.00367	320.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00973**	**.02777**	**.06364**	**.20059**	**53.514**	**9.1078**	**.05448**
Stddev	.00013	.00010	.00027	.00137	.246	.1344	.00368
%RSD	1.3825	.36539	.42234	.68264	.46045	1.4754	6.7634
#1	.00958	.02773	.06375	.19901	53.327	8.9649	.05255
#2	.00977	.02770	.06333	.20145	53.422	9.1269	.05873
#3	.00984	.02789	.06383	.20130	53.793	9.2316	.05216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.964**	**3.9909**	**.00153**	**.62064**	**.06118**	F **9823.1**	**.30571**
Stddev	.115	.0197	.00014	.02479	.00052	68.9	.00473
%RSD	.47975	.49468	9.1456	3.9943	.85756	.70186	1.5463
#1	23.852	3.9703	.00169	.62783	.06084	9759.4	.30071
#2	23.959	3.9927	.00150	.64103	.06091	9813.5	.30630
#3	24.081	4.0096	.00141	.59304	.06178	9896.3	.31011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036611S Acquired: 2/19/2011 1:33:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356912-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-56.328**	F **367.32**	F **-1263.0**	**.00000**	**.00418**	**82.921**	**.00319**
Stddev	17.289	2.45	3.9	.00342	.00373	.592	.00036
%RSD	30.692	.66815	.30572	128730.	89.435	.71441	11.163
#1	-75.533	365.28	-1260.2	-.00359	.00846	82.328	.00308
#2	-42.007	366.63	-1261.3	.00038	.00163	82.923	.00290
#3	-51.444	370.04	-1267.4	.00322	.00243	83.513	.00358
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15754**	**.08276**	**.00649**	**.09047**	**.44141**	**16.334**
Stddev	.00080	.00278	.00143	.00037	.00326	.213
%RSD	.50620	3.3627	22.079	.40756	.73832	1.3046
#1	.15674	.08230	.00647	.09089	.43828	16.533
#2	.15754	.08024	.00792	.09022	.44115	16.358
#3	.15834	.08574	.00506	.09028	.44479	16.109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76051.**	**57017.**
Stddev	445.	73.
%RSD	.58458	.12811
#1	76376.	56970.
#2	76234.	57101.
#3	75545.	56980.

Approved: February 21, 2011

Sample Name: L1102036612SD Acquired: 2/19/2011 1:36:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356912-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03887**	**31.919**	**.07075**	**.02918**	**.47024**	**.00343**	**296.33**
Stddev	.00063	.378	.00064	.00152	.00059	.00004	.57
%RSD	1.6208	1.1834	.91149	5.2228	.12488	1.1261	.19195
#1	.03957	31.542	.07148	.02828	.47067	.00340	295.72
#2	.03836	31.917	.07049	.02831	.46957	.00342	296.85
#3	.03867	32.298	.07027	.03094	.47047	.00347	296.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00883**	**.02503**	**.05972**	**.18325**	**49.238**	**8.2628**	**.04990**
Stddev	.00008	.00018	.00048	.00038	.056	.0728	.00454
%RSD	.86843	.70983	.79652	.20964	.11414	.88088	9.1021
#1	.00887	.02498	.05918	.18367	49.257	8.2374	.05397
#2	.00889	.02523	.06007	.18317	49.282	8.2061	.05073
#3	.00875	.02488	.05992	.18291	49.175	8.3449	.04500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.110**	**3.6569**	**.00124**	**.70341**	**.05552**	F **8817.7**	**.27205**
Stddev	.056	.0057	.00009	.00975	.00084	29.7	.00123
%RSD	.25381	.15485	6.9748	1.3865	1.5039	.33641	.45260
#1	22.084	3.6506	.00117	.69587	.05513	8803.4	.27080
#2	22.071	3.6583	.00134	.71442	.05648	8797.9	.27209
#3	22.174	3.6616	.00122	.69993	.05496	8851.8	.27326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036612SD Acquired: 2/19/2011 1:36:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG356912-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-45.361**	F **333.44**	F **-1141.0**	**-.00150**	**.00394**	**76.278**	**.00330**
Stddev	19.200	.70	3.3	.00116	.00105	.218	.00036
%RSD	42.327	.20978	.29072	77.058	26.595	.28626	10.834
#1	-49.530	333.50	-1143.2	-.00029	.00445	76.071	.00343
#2	-62.135	332.72	-1137.2	-.00259	.00464	76.256	.00289
#3	-24.419	334.11	-1142.6	-.00162	.00274	76.506	.00357
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14410**	**.07712**	**.00771**	**.08470**	**.39584**	**15.101**
Stddev	.00042	.00232	.00213	.00143	.00056	.373
%RSD	.29309	3.0043	27.667	1.6853	.14162	2.4717
#1	.14366	.07979	.00747	.08324	.39557	14.687
#2	.14450	.07577	.00570	.08477	.39546	15.206
#3	.14414	.07579	.00995	.08609	.39648	15.411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77573.**	**56101.**
Stddev	176.	431.
%RSD	.22672	.76739
#1	77388.	56259.
#2	77593.	56430.
#3	77737.	55614.

Approved: February 21, 2011

Sample Name: L1102036613 Acquired: 2/19/2011 1:40:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**25.822**	**.03117**	**.02721**	**.46148**	**.00285**	**227.43**
Stddev	.00035	.342	.00302	.00143	.00002	.00002	.43
%RSD	13.986	1.3260	9.6947	5.2622	.00429	.62034	.18757
#1	.00231	25.508	.03465	.02629	.46146	.00285	227.01
#2	.00231	25.772	.02966	.02886	.46150	.00286	227.42
#3	.00292	26.187	.02920	.02649	.46148	.00283	227.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00452**	**.02404**	**.04892**	**.20709**	**45.456**	**8.1792**	**.03999**
Stddev	.00019	.00007	.00093	.00103	.032	.0750	.00162
%RSD	4.0978	.27123	1.9094	.49627	.06983	.91713	4.0537
#1	.00432	.02399	.04806	.20600	45.445	8.1160	.03821
#2	.00453	.02412	.04879	.20723	45.431	8.1594	.04138
#3	.00469	.02403	.04991	.20804	45.492	8.2621	.04039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.731**	**3.2316**	**.00204**	**.57700**	**.04991**	F **8242.2**	**.29338**
Stddev	.060	.0049	.00022	.00666	.00120	9.6	.00275
%RSD	.33884	.15054	11.056	1.1537	2.4136	.11603	.93694
#1	17.662	3.2260	.00224	.57938	.05106	8231.2	.29046
#2	17.768	3.2341	.00180	.58213	.05003	8248.3	.29375
#3	17.764	3.2348	.00206	.56948	.04866	8247.2	.29592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036613 Acquired: 2/19/2011 1:40:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.580**	F **267.45**	F **-1275.4**	**.00167**	**.00390**	**64.991**	**.01027**
Stddev	1.368	.54	3.3	.00284	.00101	.285	.00019
%RSD	2.2958	.20292	.25767	170.48	25.991	.43925	1.8897
#1	-58.020	267.07	-1274.2	-.00111	.00351	65.310	.01010
#2	-60.147	267.21	-1272.9	.00457	.00506	64.903	.01048
#3	-60.573	268.07	-1279.2	.00154	.00314	64.760	.01023
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13547**	**.07569**	**.00659**	**.07024**	**.59325**	**14.588**
Stddev	.00010	.00137	.00058	.00068	.00060	.260
%RSD	.07322	1.8056	8.8239	.96328	.10043	1.7829
#1	.13558	.07624	.00659	.06965	.59307	14.306
#2	.13540	.07669	.00717	.07009	.59277	14.638
#3	.13542	.07413	.00601	.07098	.59392	14.819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77192.**	**55956.**
Stddev	234.	353.
%RSD	.30286	.63135
#1	77239.	56337.
#2	77398.	55894.
#3	76938.	55639.

Approved: February 21, 2011

Sample Name: L1102036614 Acquired: 2/19/2011 1:43:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**40.059**	**.03680**	**.02961**	**.54876**	**.00394**	**332.84**
Stddev	.00052	.160	.00114	.00243	.00140	.00004	.15
%RSD	28.370	.39953	3.1080	8.2114	.25449	.98633	.04412
#1	.00212	39.951	.03551	.02681	.54882	.00396	333.01
#2	.00123	39.983	.03769	.03078	.54734	.00390	332.77
#3	.00214	40.243	.03720	.03123	.55013	.00397	332.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00406**	**.02797**	**.06612**	**.13110**	**54.400**	**8.6973**	**.05778**
Stddev	.00009	.00025	.00039	.00035	.084	.0365	.00254
%RSD	2.2158	.90126	.59045	.26882	.15444	.41983	4.3977
#1	.00409	.02825	.06647	.13086	54.370	8.6563	.05870
#2	.00396	.02775	.06620	.13150	54.335	8.7093	.05491
#3	.00414	.02792	.06570	.13093	54.495	8.7263	.05974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.297**	**3.8629**	**.00109**	**1.1417**	**.06325**	F **7260.1**	**.25395**
Stddev	.043	.0009	.00004	.0178	.00006	22.4	.00217
%RSD	.19388	.02290	4.1062	1.5622	.09423	.30879	.85518
#1	22.269	3.8631	.00109	1.1513	.06319	7285.8	.25535
#2	22.347	3.8637	.00105	1.1211	.06330	7244.7	.25144
#3	22.276	3.8620	.00114	1.1528	.06327	7249.8	.25505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036614 Acquired: 2/19/2011 1:43:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.092**	F **376.57**	F **-1460.0**	**-.00130**	**.00407**	**71.832**	**.00402**
Stddev	19.988	.57	9.8	.00295	.00255	.341	.00040
%RSD	71.150	.15085	.67450	227.07	62.771	.47419	10.023
#1	-30.910	375.95	-1448.7	.00161	.00579	72.136	.00444
#2	-6.8454	376.69	-1464.5	-.00121	.00113	71.464	.00364
#3	-46.522	377.06	-1466.8	-.00429	.00528	71.896	.00397
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14484**	**.07957**	**.00776**	**.09443**	**.40669**	**19.412**
Stddev	.00050	.00143	.00200	.00013	.00035	.209
%RSD	.34387	1.7952	25.719	.13977	.08549	1.0767
#1	.14541	.07968	.00556	.09457	.40652	19.638
#2	.14457	.08094	.00946	.09443	.40646	19.225
#3	.14453	.07809	.00825	.09430	.40709	19.372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74629.**	**54273.**
Stddev	280.	380.
%RSD	.37557	.69945
#1	74935.	54187.
#2	74385.	53945.
#3	74567.	54689.

Approved: February 21, 2011

Sample Name: L1102036615 Acquired: 2/19/2011 1:47:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**22.688**	**.02850**	**.02336**	**.47045**	**.00258**	**325.26**
Stddev	.00040	.147	.00250	.00142	.00235	.00002	.80
%RSD	20.124	.64658	8.7553	6.0616	.49866	.86735	.24606
#1	.00174	22.530	.02565	.02199	.46937	.00260	324.54
#2	.00181	22.820	.02958	.02327	.46884	.00258	325.13
#3	.00247	22.712	.03027	.02481	.47314	.00255	326.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	**.02155**	**.04431**	**.19694**	**37.502**	**6.7388**	**.03563**
Stddev	.00006	.00008	.00014	.00056	.136	.0283	.00262
%RSD	1.3516	.37370	.31738	.28580	.36168	.41929	7.3415
#1	.00445	.02164	.04423	.19675	37.441	6.7249	.03857
#2	.00440	.02149	.04447	.19650	37.408	6.7202	.03473
#3	.00433	.02152	.04423	.19758	37.658	6.7713	.03358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.846**	**3.3288**	**.00171**	**.57099**	**.04608**	F **11335.**	**.32887**
Stddev	.039	.0085	.00057	.00610	.00059	20.	.00040
%RSD	.21908	.25411	33.378	1.0680	1.2793	.17464	.12087
#1	17.801	3.3218	.00223	.56409	.04662	11325.	.32843
#2	17.866	3.3264	.00110	.57566	.04545	11322.	.32919
#3	17.871	3.3382	.00180	.57322	.04618	11358.	.32898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036615 Acquired: 2/19/2011 1:47:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.811**	F **385.03**	F **-1935.9**	**.00143**	**.00058**	**69.012**	**.00364**
Stddev	7.731	.95	7.3	.00183	.00110	.360	.00014
%RSD	18.490	.24639	.37781	128.33	187.99	.52204	3.9379
#1	-37.696	383.95	-1927.9	.00354	-.00024	69.251	.00350
#2	-50.728	385.47	-1942.2	.00041	.00016	68.598	.00364
#3	-37.007	385.69	-1937.7	.00033	.00183	69.188	.00379
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16508**	**.06966**	**.00612**	**.06270**	**.40055**	**13.974**
Stddev	.00043	.00178	.00118	.00018	.00076	.368
%RSD	.25989	2.5574	19.230	.28858	.18896	2.6345
#1	.16499	.06775	.00538	.06250	.39979	14.080
#2	.16470	.06995	.00748	.06279	.40054	14.277
#3	.16554	.07127	.00551	.06283	.40131	13.564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**74894.**	**54864.**
Stddev	286.	39.
%RSD	.38133	.07171
#1	75077.	54909.
#2	75039.	54844.
#3	74565.	54839.

Approved: February 21, 2011

Sample Name: L1102036616 Acquired: 2/19/2011 1:50:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00300**	**29.871**	**.03590**	**.02657**	**.50002**	**.00317**	**322.52**
Stddev	.00073	.055	.00332	.00175	.00149	.00004	.39
%RSD	24.439	.18455	9.2537	6.5723	.29849	1.3613	.12050
#1	.00383	29.935	.03335	.02690	.49982	.00321	322.39
#2	.00270	29.837	.03966	.02814	.50161	.00312	322.96
#3	.00245	29.842	.03470	.02469	.49864	.00316	322.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00389**	**.02412**	**.05597**	**.12785**	**46.255**	**6.7936**	**.04854**
Stddev	.00007	.00011	.00073	.00096	.060	.0826	.00386
%RSD	1.8822	.44715	1.3103	.75019	.12971	1.2159	7.9583
#1	.00397	.02402	.05681	.12890	46.245	6.7149	.04413
#2	.00388	.02423	.05544	.12704	46.320	6.8797	.05021
#3	.00383	.02412	.05567	.12760	46.201	6.7863	.05129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.220**	**4.1788**	**.00090**	**1.0315**	**.05489**	F **6695.6**	**.25752**
Stddev	.007	.0021	.00039	.0028	.00050	18.7	.00134
%RSD	.02956	.05104	43.790	.26870	.90654	.27875	.51973
#1	24.212	4.1786	.00135	1.0345	.05502	6677.2	.25787
#2	24.222	4.1811	.00074	1.0290	.05434	6695.2	.25605
#3	24.226	4.1768	.00061	1.0309	.05532	6714.5	.25866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 21, 2011

Sample Name: L1102036616 Acquired: 2/19/2011 1:50:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-38.921**	F **373.63**	F **-1700.7**	**.00344**	**.00518**	**68.352**	**.00327**
Stddev	9.366	.43	5.4	.00317	.00296	.406	.00013
%RSD	24.065	.11473	.32021	92.133	57.096	.59470	4.0838
#1	-44.452	373.37	-1694.5	.00512	.00640	68.298	.00335
#2	-44.205	374.12	-1702.9	.00543	.00181	67.975	.00335
#3	-28.107	373.40	-1704.7	-.00022	.00733	68.783	.00312
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13934**	**.06862**	**.00806**	**.07692**	**.38345**	**14.597**
Stddev	.00021	.00331	.00200	.00057	.00034	.155
%RSD	.15425	4.8255	24.877	.73484	.08774	1.0617
#1	.13909	.07221	.00993	.07732	.38344	14.680
#2	.13946	.06796	.00594	.07717	.38379	14.694
#3	.13946	.06569	.00830	.07627	.38312	14.419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73754.**	**54814.**
Stddev	501.	141.
%RSD	.67900	.25726
#1	73515.	54669.
#2	73418.	54821.
#3	74330.	54951.

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/19/2011 1:54:22 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39858**	**10.109**	**.40881**	**.49478**	**1.0205**	**.05032**	**10.209**
Stddev	.00091	.044	.00159	.00188	.0003	.00023	.007
%RSD	.22875	.43069	.38802	.37918	.02967	.46517	.06774
#1	.39754	10.060	.40917	.49347	1.0203	.05013	10.208
#2	.39899	10.128	.40708	.49394	1.0203	.05023	10.203
#3	.39922	10.141	.41019	.49693	1.0208	.05058	10.216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05254**	**.20819**	**.50353**	**.51106**	**4.0923**	**51.249**	**1.0289**
Stddev	.00016	.00085	.00357	.00223	.0081	.067	.0020
%RSD	.31014	.40677	.70821	.43716	.19749	.13050	.19437
#1	.05241	.20792	.50167	.50964	4.0918	51.224	1.0303
#2	.05249	.20751	.50129	.50991	4.0844	51.325	1.0266
#3	.05273	.20914	.50765	.51364	4.1006	51.199	1.0299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.331**	**.51670**	**1.0156**	**51.365**	**.51894**	F **7.2778**	**.53375**
Stddev	.009	.00189	.0033	.049	.00196	10.487	.00077
%RSD	.08942	.36573	.32774	.09592	.37681	144.09	.14439
#1	10.330	.51484	1.0166	51.354	.51829	16.751	.53347
#2	10.341	.51862	1.0118	51.322	.51740	-3.9911	.53316
#3	10.322	.51664	1.0183	51.418	.52114	9.0737	.53463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 21, 2011

Sample Name: CCV Acquired: 2/19/2011 1:54:22 Type: QC
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.547**	**10.257**	F **17.562**	**1.2433**	**.40969**	**4.5031**	**1.0336**
Stddev	12.397	.038	.522	.0026	.00423	.0427	.0024
%RSD	30.575	.37351	2.9727	.20486	1.0316	.94714	.22739
#1	-27.415	10.222	17.569	1.2412	.40570	4.5040	1.0315
#2	-52.047	10.249	18.080	1.2425	.40927	4.4600	1.0332
#3	-42.179	10.298	17.036	1.2462	.41412	4.5453	1.0361
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0182**	**1.0631**	**.52210**	**.98693**	**1.0316**	F **1.2076**
Stddev	.0029	.0011	.00231	.00179	.0032	.2072
%RSD	.28247	.10577	.44250	.18188	.30798	17.162
#1	1.0169	1.0628	.51981	.98516	1.0302	1.0067
#2	1.0215	1.0623	.52443	.98688	1.0294	1.1953
#3	1.0162	1.0644	.52208	.98875	1.0353	1.4206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**73935.**	**53906.**
Stddev	197.	187.
%RSD	.26680	.34770
#1	73969.	53881.
#2	74113.	54104.
#3	73723.	53731.

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/19/2011 1:57:53 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**-.00997**	**.00137**	**-.00010**	**-.00031**	**.00001**	**-.00993**
Stddev	.00017	.00112	.00065	.00046	.00027	.00003	.00441
%RSD	35.820	11.267	47.518	477.96	87.233	305.86	44.383
#1	.00056	-.01094	.00075	.00010	-.00042	.00003	-.00801
#2	.00060	-.00874	.00131	-.00062	.00000	-.00003	-.00681
#3	.00028	-.01024	.00204	.00023	-.00052	.00003	-.01497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00010**	**-.00060**	**-.00089**	**.00347**	**.00917**	**-.00250**
Stddev	.00015	.00010	.00056	.00003	.00600	.02353	.00359
%RSD	159.60	103.29	93.507	3.6375	172.72	256.67	143.28
#1	.00007	.00018	-.00010	-.00087	.00727	.03224	.00023
#2	-.00023	.00013	-.00048	-.00088	.00658	-.01479	-.00118
#3	-.00012	-.00002	-.00120	-.00093	-.00344	.01005	-.00657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01672**	**-.00001**	**.00046**	**.02086**	**.00052**	F **.78022**	**.00310**
Stddev	.01114	.00020	.00022	.00318	.00034	4.4342	.00145
%RSD	66.593	3258.2	47.667	15.267	64.311	568.32	46.774
#1	.02266	-.00020	.00043	.01718	.00028	2.3386	.00190
#2	.02363	-.00002	.00070	.02263	.00039	-4.2228	.00471
#3	.00388	.00020	.00026	.02276	.00091	4.2249	.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 21, 2011

Sample Name: CCB Acquired: 2/19/2011 1:57:53 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1259) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-27.410**	F **-.22213**	F **10.857**	**-.00181**	**.00317**	**.19196**	**.00028**
Stddev	1.837	.01990	1.109	.00260	.00436	.02134	.00018
%RSD	6.7005	8.9610	10.215	143.62	137.31	11.118	64.393
#1	-26.038	-.21914	10.796	-.00429	.00700	.21648	.00018
#2	-29.497	-.24335	11.995	.00089	-.00157	.17752	.00048
#3	-26.697	-.20388	9.7790	-.00202	.00410	.18189	.00016
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00008**	**.00058**	**.00024**	**-.00003**	F **.40431**
Stddev	.00019	.00147	.00089	.00054	.00004	.06992
%RSD	118.67	1735.5	153.56	221.30	117.75	17.293
#1	.00006	.00143	.00123	-.00038	.00001	.43520
#2	-.00029	.00031	-.00043	.00050	-.00004	.32427
#3	-.00023	-.00148	.00093	.00060	-.00007	.45347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76870.**	**55014.**
Stddev	51.	104.
%RSD	.06681	.18944
#1	76863.	55083.
#2	76924.	55065.
#3	76822.	54894.

Approved: February 21, 2011

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Analysis Begun

Start Time: 2/18/2011 2:27:58 PM **Plasma On Time: 2/18/2011 7:37:54 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\peicp2\Sample Information\FRIDAY1.sif
Batch ID:
Results Data Set: 021811H5
Results Library: C:\pe\peicp2\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 2/18/2011 2:28:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S0

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	4790860.8	61741.85	1.29%		
YRADIAL	298129.8	8697.38	2.92%		
Ga 417.206	1377169.2	21754.75	1.58%		
GaRADIAL	69489.3	1914.75	2.76%		
Ag 328.068†	-1044.6	45.16	4.32%	[0.00]	mg/L
Al 396.153†	-234.3	97.68	41.69%	[0.00]	mg/L
As 188.979†	2.6	4.63	180.37%	[0.00]	mg/L
Ba 233.527†	-52.6	2.77	5.26%	[0.00]	mg/L
Be 234.861†	-598.9	8.13	1.36%	[0.00]	mg/L
B 249.677†	629.2	9.20	1.46%	[0.00]	mg/L
Ca 227.546†	-43.1	4.09	9.49%	[0.00]	mg/L
Cd 228.802†	24.6	3.21	13.04%	[0.00]	mg/L
Co 228.616†	-21.2	9.45	44.70%	[0.00]	mg/L
Cr 267.716†	-69.5	20.43	29.41%	[0.00]	mg/L
Cu 327.393†	-1328.6	12.72	0.96%	[0.00]	mg/L
Fe 239.562†	1.3	2.08	156.70%	[0.00]	mg/L
Mg 279.077†	12.0	2.64	22.00%	[0.00]	mg/L
Mn 257.610†	125.4	5.56	4.43%	[0.00]	mg/L
Mo 202.031†	-23.8	5.38	22.61%	[0.00]	mg/L
Ni 231.604†	2.4	19.23	811.58%	[0.00]	mg/L
Pb 220.353†	38.4	5.67	14.76%	[0.00]	mg/L
Sb 206.836†	19.2	3.51	18.24%	[0.00]	mg/L
Se 196.026†	7.0	5.67	81.26%	[0.00]	mg/L
Si 251.611†	326.1	9.07	2.78%	[0.00]	mg/L
Sn 189.927†	29.0	5.56	19.15%	[0.00]	mg/L
Ti 334.940†	-618.1	92.26	14.93%	[0.00]	mg/L
Tl 190.801†	-33.4	3.56	10.65%	[0.00]	mg/L
V 290.880†	4304.1	108.61	2.52%	[0.00]	mg/L
Zn 206.200†	3.7	4.41	118.48%	[0.00]	mg/L
K 766.490†	235.9	95.81	40.61%	[0.00]	mg/L
Na 589.592†	1448.1	95.72	6.61%	[0.00]	mg/L
Sr 407.771†	-812.1	34.55	4.25%	[0.00]	mg/L
Li 670.784†	296.6	106.56	35.93%	[0.00]	mg/L

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Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S1 **Date Collected: 2/18/2011 2:34:35 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S1

Analyte	Back Pressure	Flow

All	169.0 kPa	0.50 L/min

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	4894368.4	18839.80	0.38%		
YRADIAL	294219.9	6761.11	2.30%		
Ga 417.206	1407916.6	28854.70	2.05%		
GaRADIAL	68819.7	1112.15	1.62%		
Ag 328.068†	708.1	113.64	16.05%	[0.0040]	mg/L
Al 396.153†	533.4	27.29	5.12%	[0.10]	mg/L
Ba 233.527†	600.7	1.18	0.20%	[0.010]	mg/L
Be 234.861†	299.7	14.55	4.85%	[0.0005]	mg/L
Cd 228.802†	6.1	1.98	32.23%	[0.00050]	mg/L
Co 228.616†	35.7	6.71	18.76%	[0.0020]	mg/L
Cr 267.716†	615.7	8.99	1.46%	[0.0050]	mg/L
Cu 327.393†	763.7	99.67	13.05%	[0.0050]	mg/L
Fe 239.562†	20.1	0.90	4.51%	[0.040]	mg/L
Mg 279.077†	85.2	6.39	7.50%	[0.10]	mg/L
Mn 257.610†	2334.3	12.44	0.53%	[0.0050]	mg/L
Mo 202.031†	133.9	6.60	4.93%	[0.010]	mg/L
Ni 231.604†	168.1	11.33	6.74%	[0.0050]	mg/L
Pb 220.353†	29.6	5.99	20.28%	[0.0050]	mg/L
Sb 206.836†	17.7	1.62	9.15%	[0.012]	mg/L
Si 251.611†	1736.5	38.12	2.20%	[0.050]	mg/L
Sn 189.927†	63.4	4.60	7.27%	[0.010]	mg/L
Ti 334.940†	7287.0	86.66	1.19%	[0.010]	mg/L
V 290.880†	1308.2	122.76	9.38%	[0.010]	mg/L
Zn 206.200†	340.9	5.65	1.66%	[0.010]	mg/L
K 766.490†	1259.6	79.03	6.27%	[0.50]	mg/L
Na 589.592†	6792.4	209.41	3.08%	[0.50]	mg/L
Sr 407.771†	10423.8	752.72	7.22%	[0.010]	mg/L
Li 670.784†	708.1	131.08	18.51%	[0.010]	mg/L

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S2 **Date Collected: 2/18/2011 2:41:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S2

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	4865148.4	46420.10	0.95%		
YRADIAL	290177.6	4508.28	1.55%		
Ga 417.206	1386780.1	6999.73	0.50%		
GaRADIAL	67506.6	711.81	1.05%		
Ag 328.068†	1568.8	152.78	9.74%	[0.0080]	mg/L
Al 396.153†	1033.6	43.96	4.25%	[0.20]	mg/L
As 188.979†	8.7	2.64	30.29%	[0.0080]	mg/L
Ba 233.527†	1198.8	12.27	1.02%	[0.020]	mg/L
Be 234.861†	590.3	7.99	1.35%	[0.0010]	mg/L
B 249.677†	439.9	5.64	1.28%	[0.010]	mg/L
Ca 227.546†	26.8	7.15	26.65%	[0.20]	mg/L
Cd 228.802†	16.8	2.04	12.15%	[0.0010]	mg/L
Co 228.616†	77.5	1.17	1.51%	[0.0040]	mg/L
Cr 267.716†	1201.7	15.99	1.33%	[0.010]	mg/L
Cu 327.393†	1486.0	77.12	5.19%	[0.010]	mg/L
Fe 239.562†	39.4	1.45	3.67%	[0.080]	mg/L
Mg 279.077†	167.1	6.93	4.15%	[0.20]	mg/L
Mn 257.610†	4567.4	44.03	0.96%	[0.010]	mg/L
Mo 202.031†	262.8	0.66	0.25%	[0.020]	mg/L
Ni 231.604†	348.6	5.23	1.50%	[0.010]	mg/L
Pb 220.353†	59.0	8.47	14.36%	[0.010]	mg/L
Sb 206.836†	32.5	1.70	5.22%	[0.024]	mg/L

Se 196.026†	14.7	5.77	39.13%	[0.0080]	mg/L
Si 251.611†	3393.1	61.83	1.82%	[0.10]	mg/L
Sn 189.927†	118.7	5.82	4.90%	[0.020]	mg/L
Ti 334.940†	14621.5	251.84	1.72%	[0.020]	mg/L
Tl 190.801†	16.1	3.24	20.06%	[0.010]	mg/L
V 290.880†	2814.2	112.76	4.01%	[0.020]	mg/L
Zn 206.200†	675.6	12.00	1.78%	[0.020]	mg/L
K 766.490†	2557.5	65.14	2.55%	[1.00]	mg/L
Na 589.592†	13862.3	115.36	0.83%	[1.00]	mg/L
Sr 407.771†	20949.2	1337.02	6.38%	[0.020]	mg/L
Li 670.784†	1606.2	119.21	7.42%	[0.020]	mg/L

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S3 **Date Collected: 2/18/2011 2:47:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S3

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	4620097.2	29241.66	0.63%		
YRADIAL	286906.8	770.66	0.27%		
Ga 417.206	1330321.6	16715.22	1.26%		
GaRADIAL	67034.5	1115.97	1.66%		
Ag 328.068†	80019.7	1696.40	2.12%	[0.40]	mg/L
Al 396.153†	50747.7	72.22	0.14%	[10.00]	mg/L
As 188.979†	436.2	4.67	1.07%	[0.40]	mg/L
Ba 233.527†	59206.2	158.07	0.27%	[1.00]	mg/L
Be 234.861†	29488.3	482.65	1.64%	[0.05]	mg/L
B 249.677†	26266.6	489.76	1.86%	[0.50]	mg/L
Ca 227.546†	1061.8	14.67	1.38%	[10.00]	mg/L
Cd 228.802†	884.4	11.76	1.33%	[0.05]	mg/L
Co 228.616†	3890.7	15.90	0.41%	[0.20]	mg/L
Cr 267.716†	56557.2	168.56	0.30%	[0.50]	mg/L
Cu 327.393†	72176.0	1656.96	2.30%	[0.50]	mg/L
Fe 239.562†	1833.4	23.79	1.30%	[4.00]	mg/L
Mg 279.077†	8200.0	62.05	0.76%	[10.00]	mg/L
Mn 257.610†	223472.2	151.98	0.07%	[0.50]	mg/L
Mo 202.031†	13413.4	17.74	0.13%	[1.00]	mg/L
Ni 231.604†	17147.7	112.71	0.66%	[0.50]	mg/L
Pb 220.353†	2976.2	18.34	0.62%	[0.50]	mg/L
Sb 206.836†	1920.1	33.13	1.73%	[1.20]	mg/L
Se 196.026†	560.3	7.53	1.34%	[0.40]	mg/L
Si 251.611†	170886.1	3626.50	2.12%	[5.00]	mg/L
Sn 189.927†	5840.8	34.02	0.58%	[1.00]	mg/L
Ti 334.940†	730987.2	1004.51	0.14%	[1.00]	mg/L
Tl 190.801†	851.5	1.65	0.19%	[0.50]	mg/L
V 290.880†	148801.3	109.28	0.07%	[1.00]	mg/L
Zn 206.200†	33035.8	118.32	0.36%	[1.00]	mg/L
K 766.490†	130035.3	1053.52	0.81%	[50.00]	mg/L
Na 589.592†	675519.4	5399.36	0.80%	[50.00]	mg/L
Sr 407.771†	1019819.3	66376.21	6.51%	[1.00]	mg/L
Li 670.784†	80620.9	104.99	0.13%	[1.00]	mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S4 **Date Collected: 2/18/2011 2:54:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S4

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: S4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	4549470.2	69288.19	1.52%		
YRADIAL	279542.3	2665.77	0.95%		
Ga 417.206	1314003.2	18854.59	1.43%		
GaRADIAL	66830.0	1193.11	1.79%		
Ag 328.068†	159705.2	2509.69	1.57%	[0.80]	mg/L
Al 396.153†	98126.4	338.93	0.35%	[20.00]	mg/L
As 188.979†	877.1	13.26	1.51%	[0.80]	mg/L
Ba 233.527†	117637.3	2276.04	1.93%	[2.00]	mg/L
Be 234.861†	58877.5	744.89	1.27%	[0.10]	mg/L
B 249.677†	52944.3	973.15	1.84%	[1.00]	mg/L
Ca 227.546†	2140.9	19.17	0.90%	[20.00]	mg/L
Cd 228.802†	1765.7	25.78	1.46%	[0.10]	mg/L
Co 228.616†	7701.7	116.19	1.51%	[0.40]	mg/L
Cr 267.716†	112479.3	2244.08	2.00%	[1.00]	mg/L
Cu 327.393†	144047.6	2377.36	1.65%	[1.00]	mg/L
Fe 239.562†	3680.9	16.90	0.46%	[8.00]	mg/L
Mg 279.077†	16472.6	18.29	0.11%	[20.00]	mg/L
Mn 257.610†	439770.0	749.34	0.17%	[1.00]	mg/L
Mo 202.031†	26879.0	533.08	1.98%	[2.00]	mg/L
Ni 231.604†	34059.7	696.99	2.05%	[1.00]	mg/L
Pb 220.353†	5904.2	93.47	1.58%	[1.00]	mg/L
Sb 206.836†	3816.8	61.27	1.61%	[2.40]	mg/L
Se 196.026†	1125.3	16.71	1.48%	[0.80]	mg/L
Si 251.611†	344098.7	5876.10	1.71%	[10.00]	mg/L
Sn 189.927†	11615.8	180.34	1.55%	[2.00]	mg/L
Ti 334.940†	1444584.8	4217.67	0.29%	[2.00]	mg/L
Tl 190.801†	1676.1	26.14	1.56%	[1.00]	mg/L
V 290.880†	299103.9	5756.12	1.92%	[2.00]	mg/L
Zn 206.200†	65885.1	1148.51	1.74%	[2.00]	mg/L
K 766.490†	256018.8	1306.47	0.51%	[100.00]	mg/L
Na 589.592†	1316037.8	13407.56	1.02%	[100.00]	mg/L
Sr 407.771†	2030551.9	193168.88	9.51%	[2.00]	mg/L
Li 670.784†	155884.8	579.91	0.37%	[2.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Wt. Lin	-86.5	201400	0.00000	0.999760	
Al 396.153	4	Wt. Lin	34.8	4989	0.00000	0.999871	
As 188.979	3	Wt. Lin	-0.0	1093	0.00000	0.999996	
Ba 233.527	4	Wt. Lin	11.4	59080	0.00000	0.999987	
Be 234.861	4	Wt. Lin	4.7	588500	0.00000	0.999992	
B 249.677	3	Wt. Lin	-88.8	52870	0.00000	0.999995	
Ca 227.546	3	Wt. Lin	5.6	106.2	0.00000	0.999985	
Cd 228.802	4	Wt. Lin	-2.6	18040	0.00000	0.998288	
Co 228.616	4	Wt. Lin	-2.7	19500	0.00000	0.999732	
Cr 267.716	4	Wt. Lin	54.1	113100	0.00000	0.999931	
Cu 327.393	4	Wt. Lin	43.2	144200	0.00000	0.999999	
Fe 239.562	4	Wt. Lin	1.8	461.2	0.00000	0.999874	
Mg 279.077	4	Wt. Lin	3.1	821.3	0.00000	0.999997	
Mn 257.610	4	Wt. Lin	120.1	443500	0.00000	0.999968	
Mo 202.031	4	Wt. Lin	-0.9	13380	0.00000	0.999933	
Ni 231.604	4	Wt. Lin	-1.9	34360	0.00000	0.999864	
Pb 220.353	4	Wt. Lin	-0.1	5924	0.00000	0.999990	
Sb 206.836	4	Wt. Lin	-1.8	1563	0.00000	0.997693	
Se 196.026	3	Wt. Lin	3.6	1397	0.00000	0.999993	
Si 251.611	4	Wt. Lin	16.7	34190	0.00000	0.999946	
Sn 189.927	4	Wt. Lin	4.9	5794	0.00000	0.999891	
Ti 334.940	4	Wt. Lin	27.2	727200	0.00000	0.999980	
Tl 190.801	3	Wt. Lin	-0.8	1691	0.00000	0.999966	
V 290.880	4	Wt. Lin	-183.8	149400	0.00000	0.999995	
Zn 206.200	4	Wt. Lin	11.6	33020	0.00000	0.999990	
K 766.490	4	Non Lin, Calc Int	-48.2	2643	-0.81921	1.000000	
Na 589.592	4	Non Lin, Calc Int	-43.1	13860	-7.00888	1.000000	
Sr 407.771	4	Wt. Lin	281.9	1021000	0.00000	0.999948	
Li 670.784	4	Wt. Lin	-75.9	80290	0.00000	0.999154	

Sequence No.: 6 **Autosampler Location:** 9
Sample ID: ICV 2nd Vendor **Date Collected:** 2/18/2011 3:01:15 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICV 2nd Vendor

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4642579.0						6730.07	0.14%
YRADIAL	289057.4						6375.32	2.21%
Ga 417.206	1339149.9						6930.70	0.52%
GaRADIAL	67179.7						261.55	0.39%
Ag 328.068†	77252.6	0.385	mg/L	0.0054	0.385	mg/L	0.0054	1.41%
QC value within limits for Ag 328.068 Recovery = 96.26%								
Al 396.153†	50481.4	10.1	mg/L	0.09	10.1	mg/L	0.09	0.90%
QC value within limits for Al 396.153 Recovery = 100.99%								
As 188.979†	422.7	0.383	mg/L	0.0033	0.383	mg/L	0.0033	0.86%
QC value within limits for As 188.979 Recovery = 95.77%								
Ba 233.527†	58184.2	0.987	mg/L	0.0091	0.987	mg/L	0.0091	0.92%
QC value within limits for Ba 233.527 Recovery = 98.73%								
Be 234.861†	28320.3	0.0489	mg/L	0.00080	0.0489	mg/L	0.00080	1.63%
QC value within limits for Be 234.861 Recovery = 97.84%								
B 249.677†	25315.3	0.486	mg/L	0.0087	0.486	mg/L	0.0087	1.78%
QC value within limits for B 249.677 Recovery = 97.29%								
Ca 227.546†	1048.3	10.2	mg/L	0.10	10.2	mg/L	0.10	1.02%
QC value within limits for Ca 227.546 Recovery = 101.53%								
Cd 228.802†	857.1	0.0473	mg/L	0.00034	0.0473	mg/L	0.00034	0.71%
QC value less than the lower limit for Cd 228.802 Recovery = 94.53%								
Co 228.616†	3785.0	0.192	mg/L	0.0002	0.192	mg/L	0.0002	0.10%
QC value within limits for Co 228.616 Recovery = 95.86%								
Cr 267.716†	55522.3	0.490	mg/L	0.0059	0.490	mg/L	0.0059	1.21%
QC value within limits for Cr 267.716 Recovery = 98.09%								
Cu 327.393†	70694.8	0.492	mg/L	0.0092	0.492	mg/L	0.0092	1.87%
QC value within limits for Cu 327.393 Recovery = 98.38%								
Fe 239.562†	1796.8	3.89	mg/L	0.048	3.89	mg/L	0.048	1.23%
QC value within limits for Fe 239.562 Recovery = 97.28%								
Mg 279.077†	8052.7	9.80	mg/L	0.146	9.80	mg/L	0.146	1.49%
QC value within limits for Mg 279.077 Recovery = 98.03%								
Mn 257.610†	222251.0	0.505	mg/L	0.0049	0.505	mg/L	0.0049	0.96%
QC value within limits for Mn 257.610 Recovery = 101.10%								
Mo 202.031†	13227.8	0.989	mg/L	0.0013	0.989	mg/L	0.0013	0.13%
QC value within limits for Mo 202.031 Recovery = 98.93%								
Ni 231.604†	17005.0	0.495	mg/L	0.0050	0.495	mg/L	0.0050	1.01%
QC value within limits for Ni 231.604 Recovery = 98.98%								
Pb 220.353†	2945.6	0.502	mg/L	0.0007	0.502	mg/L	0.0007	0.13%
QC value within limits for Pb 220.353 Recovery = 100.47%								
Sb 206.836†	1923.2	1.24	mg/L	0.004	1.24	mg/L	0.004	0.35%
QC value within limits for Sb 206.836 Recovery = 103.05%								
Se 196.026†	542.9	0.389	mg/L	0.0036	0.389	mg/L	0.0036	0.93%
QC value within limits for Se 196.026 Recovery = 97.22%								
Si 251.611†	171919.3	5.01	mg/L	0.069	5.01	mg/L	0.069	1.38%
QC value within limits for Si 251.611 Recovery = 100.27%								
Sn 189.927†	5849.1	1.01	mg/L	0.003	1.01	mg/L	0.003	0.28%
QC value within limits for Sn 189.927 Recovery = 100.87%								
Ti 334.940†	734230.1	1.01	mg/L	0.005	1.01	mg/L	0.005	0.52%
QC value within limits for Ti 334.940 Recovery = 100.95%								
Tl 190.801†	844.3	0.511	mg/L	0.0049	0.511	mg/L	0.0049	0.95%
QC value within limits for Tl 190.801 Recovery = 102.27%								
V 290.880†	142986.3	0.958	mg/L	0.0108	0.958	mg/L	0.0108	1.13%
QC value within limits for V 290.880 Recovery = 95.77%								
Zn 206.200†	32266.0	0.979	mg/L	0.0101	0.979	mg/L	0.0101	1.03%
QC value within limits for Zn 206.200 Recovery = 97.89%								
K 766.490†	126748.1	48.7	mg/L	0.44	48.7	mg/L	0.44	0.90%
QC value within limits for K 766.490 Recovery = 97.34%								
Na 589.592†	642774.5	47.5	mg/L	0.54	47.5	mg/L	0.54	1.13%

QC value within limits for Na 589.592 Recovery = 95.03%
Sr 407.771† 1001727.2 0.981 mg/L 0.0771 0.981 mg/L 0.0771 7.86%
QC value within limits for Sr 407.771 Recovery = 98.08%
Li 670.784† 78711.0 0.981 mg/L 0.0024 0.981 mg/L 0.0024 0.25%
QC value within limits for Li 670.784 Recovery = 98.12%
QC Failed. Continue with analysis.

Sequence No.: 7 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 2/18/2011 3:08:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4934488.8						91437.86	1.85%
YRADIAL	296741.8						5629.52	1.90%
Ga 417.206	1384742.3						20452.18	1.48%
GaRADIAL	68671.7						1226.43	1.79%
Ag 328.068†	-159.0	-0.00036	mg/L	0.000946	-0.00036	mg/L	0.000946	264.07%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	65.5	0.00615	mg/L	0.008171	0.00615	mg/L	0.008171	132.77%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.7	0.00159	mg/L	0.001848	0.00159	mg/L	0.001848	115.99%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	3.8	-0.00013	mg/L	0.000041	-0.00013	mg/L	0.000041	32.25%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-5.2	-0.00002	mg/L	0.000012	-0.00002	mg/L	0.000012	73.55%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	46.6	0.00253	mg/L	0.000084	0.00253	mg/L	0.000084	3.32%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-2.0	-0.0717	mg/L	0.03124	-0.0717	mg/L	0.03124	43.56%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-0.6	0.00010	mg/L	0.000085	0.00010	mg/L	0.000085	84.85%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-0.5	0.00011	mg/L	0.000105	0.00011	mg/L	0.000105	91.70%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	4.6	-0.00044	mg/L	0.000068	-0.00044	mg/L	0.000068	15.57%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	8.2	-0.00024	mg/L	0.000258	-0.00024	mg/L	0.000258	106.67%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-0.7	-0.00532	mg/L	0.001534	-0.00532	mg/L	0.001534	28.83%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	4.0	0.00118	mg/L	0.009031	0.00118	mg/L	0.009031	766.56%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	47.6	-0.00016	mg/L	0.000034	-0.00016	mg/L	0.000034	21.38%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-1.6	-0.00006	mg/L	0.000313	-0.00006	mg/L	0.000313	564.84%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-7.8	-0.00017	mg/L	0.000170	-0.00017	mg/L	0.000170	98.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-2.3	-0.00037	mg/L	0.001174	-0.00037	mg/L	0.001174	314.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.5	0.00019	mg/L	0.002338	0.00019	mg/L	0.002338	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.9	-0.00194	mg/L	0.006255	-0.00194	mg/L	0.006255	322.65%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	158.7	0.00415	mg/L	0.000136	0.00415	mg/L	0.000136	3.28%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	6.8	0.00033	mg/L	0.000289	0.00033	mg/L	0.000289	86.60%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	119.2	0.00013	mg/L	0.000041	0.00013	mg/L	0.000041	32.66%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	0.0	0.00047	mg/L	0.000738	0.00047	mg/L	0.000738	158.23%
QC value within limits for Tl 190.801 Recovery = Not calculated								

V 290.880† -89.5 0.00063 mg/L 0.001126 0.00063 mg/L 0.001126 178.47%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 7.8 -0.00012 mg/L 0.000061 -0.00012 mg/L 0.000061 52.63%
QC value within limits for Zn 206.200 Recovery = Not calculated
K 766.490† 215.5 0.0998 mg/L 0.03660 0.0998 mg/L 0.03660 36.69%
QC value within limits for K 766.490 Recovery = Not calculated
Na 589.592† 103.6 0.0106 mg/L 0.01697 0.0106 mg/L 0.01697 160.38%
QC value within limits for Na 589.592 Recovery = Not calculated
Sr 407.771† 322.3 0.00004 mg/L 0.000072 0.00004 mg/L 0.000072 178.98%
QC value within limits for Sr 407.771 Recovery = Not calculated
Li 670.784† -133.5 -0.00072 mg/L 0.000307 -0.00072 mg/L 0.000307 42.87%
QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 10**
Sample ID: LLCCV **Date Collected: 2/18/2011 3:14:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	4832956.1						71616.61	1.48%
YRADIAL	292574.0						3566.10	1.22%
Ga 417.206	1356959.8						27048.90	1.99%
GaRADIAL	66995.0						748.81	1.12%
Ag 328.068†	1516.5	0.00798	mg/L	0.001201	0.00798	mg/L	0.001201	15.05%
QC value greater than the upper limit for Ag 328.068 Recovery = 199.56%								
Al 396.153†	1034.9	0.200	mg/L	0.0189	0.200	mg/L	0.0189	9.43%
QC value greater than the upper limit for Al 396.153 Recovery = 200.19%								
As 188.979†	8.2	0.00749	mg/L	0.000499	0.00749	mg/L	0.000499	6.66%
QC value greater than the upper limit for As 188.979 Recovery = 187.33%								
Ba 233.527†	1183.8	0.0199	mg/L	0.00032	0.0199	mg/L	0.00032	1.62%
QC value greater than the upper limit for Ba 233.527 Recovery = 199.02%								
Be 234.861†	558.6	0.00096	mg/L	0.000003	0.00096	mg/L	0.000003	0.36%
QC value less than the lower limit for Be 234.861 Recovery = 47.87%								
B 249.677†	549.9	0.0122	mg/L	0.00083	0.0122	mg/L	0.00083	6.84%
QC value less than the lower limit for B 249.677 Recovery = 12.19%								
Ca 227.546†	18.2	0.125	mg/L	0.0584	0.125	mg/L	0.0584	46.58%
QC value less than the lower limit for Ca 227.546 Recovery = 62.70%								
Cd 228.802†	17.4	0.00110	mg/L	0.000115	0.00110	mg/L	0.000115	10.47%
QC value greater than the upper limit for Cd 228.802 Recovery = 220.09%								
Co 228.616†	75.3	0.00395	mg/L	0.000442	0.00395	mg/L	0.000442	11.19%
QC value greater than the upper limit for Co 228.616 Recovery = 197.65%								
Cr 267.716†	1186.6	0.0100	mg/L	0.00012	0.0100	mg/L	0.00012	1.22%
QC value greater than the upper limit for Cr 267.716 Recovery = 200.29%								
Cu 327.393†	1474.4	0.00997	mg/L	0.000347	0.00997	mg/L	0.000347	3.48%
QC value greater than the upper limit for Cu 327.393 Recovery = 199.30%								
Fe 239.562†	36.7	0.0756	mg/L	0.00562	0.0756	mg/L	0.00562	7.43%
QC value within limits for Fe 239.562 Recovery = 75.60%								
Mg 279.077†	156.6	0.187	mg/L	0.0048	0.187	mg/L	0.0048	2.57%
QC value less than the lower limit for Mg 279.077 Recovery = 37.40%								
Mn 257.610†	4488.1	0.00994	mg/L	0.000263	0.00994	mg/L	0.000263	2.64%
QC value greater than the upper limit for Mn 257.610 Recovery = 198.89%								
Mo 202.031†	262.2	0.0197	mg/L	0.00020	0.0197	mg/L	0.00020	1.02%
QC value greater than the upper limit for Mo 202.031 Recovery = 196.74%								
Ni 231.604†	339.2	0.00993	mg/L	0.000340	0.00993	mg/L	0.000340	3.43%
QC value greater than the upper limit for Ni 231.604 Recovery = 198.54%								
Pb 220.353†	60.4	0.0103	mg/L	0.00136	0.0103	mg/L	0.00136	13.16%
QC value greater than the upper limit for Pb 220.353 Recovery = 206.38%								
Sb 206.836†	39.0	0.0262	mg/L	0.00126	0.0262	mg/L	0.00126	4.80%
QC value greater than the upper limit for Sb 206.836 Recovery = 218.15%								
Se 196.026†	14.0	0.00753	mg/L	0.004499	0.00753	mg/L	0.004499	59.72%
QC value greater than the upper limit for Se 196.026 Recovery = 188.33%								
Si 251.611†	3453.1	0.100	mg/L	0.0020	0.100	mg/L	0.0020	2.04%

QC value greater than the upper limit for Si 251.611 Recovery = 200.45%
Sn 189.927† 123.7 0.0205 mg/L 0.00100 0.0205 mg/L 0.00100 4.86%
QC value greater than the upper limit for Sn 189.927 Recovery = 205.06%
Ti 334.940† 14362.5 0.0197 mg/L 0.00034 0.0197 mg/L 0.00034 1.71%
QC value greater than the upper limit for Ti 334.940 Recovery = 197.10%
Tl 190.801† 16.4 0.0104 mg/L 0.00425 0.0104 mg/L 0.00425 40.96%
QC value greater than the upper limit for Tl 190.801 Recovery = 207.74%
V 290.880† 2892.7 0.0206 mg/L 0.00111 0.0206 mg/L 0.00111 5.38%
QC value greater than the upper limit for V 290.880 Recovery = 205.80%
Zn 206.200† 699.6 0.0209 mg/L 0.00036 0.0209 mg/L 0.00036 1.73%
QC value within limits for Zn 206.200 Recovery = 104.40%
K 766.490† 2675.5 1.03 mg/L 0.021 1.03 mg/L 0.021 1.99%
QC value within limits for K 766.490 Recovery = 103.00%
Na 589.592† 13565.9 0.982 mg/L 0.0181 0.982 mg/L 0.0181 1.84%
QC value greater than the upper limit for Na 589.592 Recovery = 196.45%
Sr 407.771† 20349.2 0.0197 mg/L 0.00128 0.0197 mg/L 0.00128 6.51%
QC value greater than the upper limit for Sr 407.771 Recovery = 196.54%
Li 670.784† 1579.7 0.0206 mg/L 0.00143 0.0206 mg/L 0.00143 6.91%
QC value greater than the upper limit for Li 670.784 Recovery = 206.19%
QC Failed. Continue with analysis.

Sequence No.: 9 **Autosampler Location: 7**
Sample ID: ICSA **Date Collected: 2/18/2011 3:21:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4325320.6						22189.69	0.51%
YRADIAL	279047.3						4617.02	1.65%
Ga 417.206	1257037.2						10398.95	0.83%
GaRADIAL	65265.0						853.99	1.31%
Ag 328.068†	725.7	-0.00082	mg/L	0.001176	-0.00082	mg/L	0.001176	143.88%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	1254143.2	251	mg/L	3.8	251	mg/L	3.8	1.52%
QC value within limits for Al 396.153 Recovery = 100.55%								
As 188.979†	10.5	-0.00006	mg/L	0.005126	-0.00006	mg/L	0.005126	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	145.6	-0.00008	mg/L	0.000078	-0.00008	mg/L	0.000078	93.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	11517.0	-0.00003	mg/L	0.001302	-0.00003	mg/L	0.001302	>999.9%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	-6756.9	0.0450	mg/L	0.01627	0.0450	mg/L	0.01627	36.12%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	30144.3	284	mg/L	2.8	284	mg/L	2.8	0.99%
QC value within limits for Ca 227.546 Recovery = 113.69%								
Cd 228.802†	2.9	0.00013	mg/L	0.000167	0.00013	mg/L	0.000167	133.15%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	20.4	-0.00136	mg/L	0.000774	-0.00136	mg/L	0.000774	57.08%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	624.8	-0.00116	mg/L	0.000086	-0.00116	mg/L	0.000086	7.43%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-1580.5	-0.00010	mg/L	0.000351	-0.00010	mg/L	0.000351	366.78%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	44806.6	97.1	mg/L	0.21	97.1	mg/L	0.21	0.22%
QC value within limits for Fe 239.562 Recovery = 97.14%								
Mg 279.077†	204675.0	249	mg/L	0.8	249	mg/L	0.8	0.34%
QC value within limits for Mg 279.077 Recovery = 99.66%								
Mn 257.610†	-189.9	0.00017	mg/L	0.000411	0.00017	mg/L	0.000411	245.10%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-17.9	0.00352	mg/L	0.000272	0.00352	mg/L	0.000272	7.72%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-75.7	-0.00221	mg/L	0.000380	-0.00221	mg/L	0.000380	17.23%
QC value within limits for Ni 231.604 Recovery = Not calculated								

Pb 220.353†	-92.2	0.00212 mg/L	0.002943	0.00212 mg/L	0.002943	138.92%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	23.3	0.0160 mg/L	0.00268	0.0160 mg/L	0.00268	16.74%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-107.4	-0.00056 mg/L	0.005294	-0.00056 mg/L	0.005294	944.22%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	18974.3	0.555 mg/L	0.0039	0.555 mg/L	0.0039	0.71%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-25.4	-0.00524 mg/L	0.001217	-0.00524 mg/L	0.001217	23.22%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	-1778.3	0.00035 mg/L	0.000376	0.00035 mg/L	0.000376	106.38%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	161.8	0.0706 mg/L	0.00327	0.0706 mg/L	0.00327	4.63%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 290.880†	-965.1	0.00223 mg/L	0.005131	0.00223 mg/L	0.005131	229.92%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	52.0	-0.00099 mg/L	0.000671	-0.00099 mg/L	0.000671	67.77%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490†	98.0	0.0553 mg/L	0.03266	0.0553 mg/L	0.03266	59.10%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592†	441.2	0.0349 mg/L	0.00360	0.0349 mg/L	0.00360	10.30%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771†	13914.9	0.00170 mg/L	0.000421	0.00170 mg/L	0.000421	24.73%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Li 670.784†	106.5	0.00227 mg/L	0.000263	0.00227 mg/L	0.000263	11.58%
QC value within limits for Li 670.784 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 8**
Sample ID: ICSAB **Date Collected: 2/18/2011 3:26:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4321705.7						30211.20	0.70%
YRADIAL	281773.2						4384.47	1.56%
Ga 417.206	1248345.8						15312.71	1.23%
GaRADIAL	65507.3						524.83	0.80%
Ag 328.068†	104246.1	0.514	mg/L	0.0072	0.514	mg/L	0.0072	1.40%
QC value within limits for Ag 328.068 Recovery = 102.74%								
Al 396.153†	1244871.8	250	mg/L	4.9	250	mg/L	4.9	1.98%
QC value within limits for Al 396.153 Recovery = 99.81%								
As 188.979†	288.3	0.255	mg/L	0.0065	0.255	mg/L	0.0065	2.55%
QC value within limits for As 188.979 Recovery = 102.10%								
Ba 233.527†	14821.5	0.249	mg/L	0.0024	0.249	mg/L	0.0024	0.96%
QC value within limits for Ba 233.527 Recovery = 99.56%								
Be 234.861†	164002.7	0.260	mg/L	0.0056	0.260	mg/L	0.0056	2.14%
QC value within limits for Be 234.861 Recovery = 103.85%								
B 249.677†	-9809.8	-0.0344	mg/L	0.01091	-0.0344	mg/L	0.01091	31.71%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	29949.0	283	mg/L	1.9	283	mg/L	1.9	0.66%
QC value within limits for Ca 227.546 Recovery = 113.08%								
Cd 228.802†	8198.9	0.455	mg/L	0.0063	0.455	mg/L	0.0063	1.39%
QC value within limits for Cd 228.802 Recovery = 91.06%								
Co 228.616†	4554.9	0.231	mg/L	0.0010	0.231	mg/L	0.0010	0.44%
QC value within limits for Co 228.616 Recovery = 92.45%								
Cr 267.716†	28640.5	0.247	mg/L	0.0012	0.247	mg/L	0.0012	0.49%
QC value within limits for Cr 267.716 Recovery = 98.63%								
Cu 327.393†	35548.4	0.257	mg/L	0.0032	0.257	mg/L	0.0032	1.24%
QC value within limits for Cu 327.393 Recovery = 102.83%								
Fe 239.562†	43708.7	94.8	mg/L	0.48	94.8	mg/L	0.48	0.50%
QC value within limits for Fe 239.562 Recovery = 94.76%								
Mg 279.077†	200074.0	244	mg/L	0.9	244	mg/L	0.9	0.35%

QC value within limits for Mg 279.077 Recovery = 97.42%

Mn 257.610†	110835.4	0.252 mg/L	0.0019	0.252 mg/L	0.0019	0.76%
QC value within limits for Mn 257.610 Recovery = 100.61%							
Mo 202.031†	-11.6	0.00395 mg/L	0.000735	0.00395 mg/L	0.000735	18.62%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	16063.2	0.467 mg/L	0.0029	0.467 mg/L	0.0029	0.62%
QC value within limits for Ni 231.604 Recovery = 93.48%							
Pb 220.353†	2826.7	0.495 mg/L	0.0030	0.495 mg/L	0.0030	0.60%
QC value within limits for Pb 220.353 Recovery = 98.91%							
Sb 206.836†	850.5	0.544 mg/L	0.0052	0.544 mg/L	0.0052	0.96%
QC value within limits for Sb 206.836 Recovery = 108.79%							
Se 196.026†	238.3	0.246 mg/L	0.0053	0.246 mg/L	0.0053	2.16%
QC value within limits for Se 196.026 Recovery = 98.41%							
Si 251.611†	341.5	0.00951 mg/L	0.000283	0.00951 mg/L	0.000283	2.98%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-20.7	-0.00443 mg/L	0.001517	-0.00443 mg/L	0.001517	34.28%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-1992.6	-0.00003 mg/L	0.000282	-0.00003 mg/L	0.000282	861.08%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1000.1	0.567 mg/L	0.0105	0.567 mg/L	0.0105	1.85%
QC value within limits for Tl 190.801 Recovery = 113.30%							
V 290.880†	35670.4	0.247 mg/L	0.0008	0.247 mg/L	0.0008	0.33%
QC value within limits for V 290.880 Recovery = 98.86%							
Zn 206.200†	15522.9	0.469 mg/L	0.0050	0.469 mg/L	0.0050	1.08%
QC value within limits for Zn 206.200 Recovery = 93.76%							
K 766.490†	13496.2	5.13 mg/L	0.051	5.13 mg/L	0.051	1.00%
QC value within limits for K 766.490 Recovery = 102.57%							
Na 589.592†	69125.5	5.00 mg/L	0.030	5.00 mg/L	0.030	0.60%
QC value within limits for Na 589.592 Recovery = 100.05%							
Sr 407.771†	13323.4	0.00141 mg/L	0.000406	0.00141 mg/L	0.000406	28.85%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	-173.3	-0.00121 mg/L	0.000952	-0.00121 mg/L	0.000952	78.51%
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/18/2011 3:32:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4702462.2						37555.83	0.80%
YRADIAL	286792.3						5952.27	2.08%
Ga 417.206	1315139.6						9755.43	0.74%
GaRADIAL	65624.6						592.27	0.90%
Ag 328.068†	79946.6	0.398	mg/L	0.0017	0.398	mg/L	0.0017	0.43%
QC value within limits for Ag 328.068 Recovery = 99.61%								
Al 396.153†	50734.2	10.1	mg/L	0.04	10.1	mg/L	0.04	0.38%
QC value within limits for Al 396.153 Recovery = 101.49%								
As 188.979†	441.3	0.400	mg/L	0.0008	0.400	mg/L	0.0008	0.20%
QC value within limits for As 188.979 Recovery = 100.02%								
Ba 233.527†	57877.5	0.982	mg/L	0.0037	0.982	mg/L	0.0037	0.38%
QC value within limits for Ba 233.527 Recovery = 98.22%								
Be 234.861†	29585.8	0.0511	mg/L	0.00014	0.0511	mg/L	0.00014	0.27%
QC value within limits for Be 234.861 Recovery = 102.14%								
B 249.677†	26364.1	0.506	mg/L	0.0048	0.506	mg/L	0.0048	0.94%
QC value within limits for B 249.677 Recovery = 101.23%								
Ca 227.546†	1060.4	10.3	mg/L	0.10	10.3	mg/L	0.10	1.01%
QC value within limits for Ca 227.546 Recovery = 102.61%								
Cd 228.802†	893.4	0.0492	mg/L	0.00050	0.0492	mg/L	0.00050	1.02%
QC value within limits for Cd 228.802 Recovery = 98.33%								
Co 228.616†	3789.7	0.192	mg/L	0.0011	0.192	mg/L	0.0011	0.57%
QC value within limits for Co 228.616 Recovery = 96.01%								

Cr 267.716†	55312.3	0.489 mg/L	0.0014	0.489 mg/L	0.0014	0.29%
QC value within limits for Cr 267.716 Recovery = 97.72%						
Cu 327.393†	72370.1	0.504 mg/L	0.0035	0.504 mg/L	0.0035	0.69%
QC value within limits for Cu 327.393 Recovery = 100.71%						
Fe 239.562†	1795.3	3.89 mg/L	0.036	3.89 mg/L	0.036	0.92%
QC value within limits for Fe 239.562 Recovery = 97.19%						
Mg 279.077†	8081.9	9.84 mg/L	0.094	9.84 mg/L	0.094	0.96%
QC value within limits for Mg 279.077 Recovery = 98.39%						
Mn 257.610†	217876.1	0.496 mg/L	0.0012	0.496 mg/L	0.0012	0.25%
QC value within limits for Mn 257.610 Recovery = 99.14%						
Mo 202.031†	13193.2	0.987 mg/L	0.0030	0.987 mg/L	0.0030	0.31%
QC value within limits for Mo 202.031 Recovery = 98.68%						
Ni 231.604†	16811.6	0.489 mg/L	0.0009	0.489 mg/L	0.0009	0.18%
QC value within limits for Ni 231.604 Recovery = 97.85%						
Pb 220.353†	2920.8	0.498 mg/L	0.0025	0.498 mg/L	0.0025	0.50%
QC value within limits for Pb 220.353 Recovery = 99.63%						
Sb 206.836†	1923.1	1.24 mg/L	0.012	1.24 mg/L	0.012	0.96%
QC value within limits for Sb 206.836 Recovery = 103.05%						
Se 196.026†	557.3	0.399 mg/L	0.0062	0.399 mg/L	0.0062	1.54%
QC value within limits for Se 196.026 Recovery = 99.82%						
Si 251.611†	171636.2	5.01 mg/L	0.029	5.01 mg/L	0.029	0.58%
QC value within limits for Si 251.611 Recovery = 100.11%						
Sn 189.927†	5721.9	0.987 mg/L	0.0059	0.987 mg/L	0.0059	0.60%
QC value within limits for Sn 189.927 Recovery = 98.67%						
Ti 334.940†	716520.8	0.985 mg/L	0.0021	0.985 mg/L	0.0021	0.21%
QC value within limits for Ti 334.940 Recovery = 98.52%						
Tl 190.801†	838.0	0.507 mg/L	0.0051	0.507 mg/L	0.0051	1.00%
QC value within limits for Tl 190.801 Recovery = 101.47%						
V 290.880†	144713.1	0.969 mg/L	0.0036	0.969 mg/L	0.0036	0.37%
QC value within limits for V 290.880 Recovery = 96.93%						
Zn 206.200†	32499.7	0.986 mg/L	0.0041	0.986 mg/L	0.0041	0.42%
QC value within limits for Zn 206.200 Recovery = 98.60%						
K 766.490†	129128.6	49.6 mg/L	0.33	49.6 mg/L	0.33	0.67%
QC value within limits for K 766.490 Recovery = 99.19%						
Na 589.592†	671650.7	49.7 mg/L	0.57	49.7 mg/L	0.57	1.15%
QC value within limits for Na 589.592 Recovery = 99.41%						
Sr 407.771†	1008008.0	0.987 mg/L	0.0710	0.987 mg/L	0.0710	7.20%
QC value within limits for Sr 407.771 Recovery = 98.70%						
Li 670.784†	79944.6	0.997 mg/L	0.0089	0.997 mg/L	0.0089	0.89%
QC value within limits for Li 670.784 Recovery = 99.66%						

All analyte(s) passed QC.

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Sequence No.: 12 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/18/2011 3:39:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4913175.0						57798.32	1.18%
YRADIAL	298966.7						10210.50	3.42%
Ga 417.206	1360949.8						27908.84	2.05%
GaRADIAL	67485.6						1151.55	1.71%
Ag 328.068†	-136.5	-0.00025	mg/L	0.000576	-0.00025	mg/L	0.000576	231.72%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	89.7	0.0110	mg/L	0.01255	0.0110	mg/L	0.01255	113.97%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.0	0.00001	mg/L	0.000640	0.00001	mg/L	0.000640	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	1.1	-0.00017	mg/L	0.000035	-0.00017	mg/L	0.000035	19.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-6.7	-0.00002	mg/L	0.000021	-0.00002	mg/L	0.000021	105.39%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	94.3	0.00346	mg/L	0.000204	0.00346	mg/L	0.000204	5.91%

QC value within limits for B 249.677 Recovery = Not calculated

Ca 227.546†	-5.4	-0.104 mg/L	0.0203	-0.104 mg/L	0.0203	19.49%
QC value less than the lower limit for Ca 227.546 Recovery = Not calculated							
Cd 228.802†	2.5	0.00028 mg/L	0.000214	0.00028 mg/L	0.000214	76.85%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	-2.9	-0.00001 mg/L	0.000292	-0.00001 mg/L	0.000292	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-6.7	-0.00054 mg/L	0.000105	-0.00054 mg/L	0.000105	19.43%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	-7.8	-0.00035 mg/L	0.000259	-0.00035 mg/L	0.000259	73.32%
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 239.562†	3.2	0.00301 mg/L	0.002332	0.00301 mg/L	0.002332	77.53%
QC value within limits for Fe 239.562 Recovery = Not calculated							
Mg 279.077†	4.3	0.00155 mg/L	0.003686	0.00155 mg/L	0.003686	238.34%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	16.5	-0.00023 mg/L	0.000018	-0.00023 mg/L	0.000018	7.62%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-2.3	-0.00011 mg/L	0.000677	-0.00011 mg/L	0.000677	631.75%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	-9.0	-0.00021 mg/L	0.000062	-0.00021 mg/L	0.000062	29.97%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	3.6	0.00063 mg/L	0.000320	0.00063 mg/L	0.000320	50.97%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-3.4	-0.00105 mg/L	0.000842	-0.00105 mg/L	0.000842	80.05%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.6	0.00075 mg/L	0.001569	0.00075 mg/L	0.001569	209.48%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	56.1	0.00115 mg/L	0.000195	0.00115 mg/L	0.000195	16.90%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	3.4	-0.00026 mg/L	0.001027	-0.00026 mg/L	0.001027	390.69%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	10.1	-0.00002 mg/L	0.000114	-0.00002 mg/L	0.000114	468.61%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.9	0.00219 mg/L	0.003823	0.00219 mg/L	0.003823	174.44%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	-201.4	-0.00012 mg/L	0.000642	-0.00012 mg/L	0.000642	548.36%
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	4.3	-0.00022 mg/L	0.000152	-0.00022 mg/L	0.000152	67.96%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	34.3	0.0312 mg/L	0.00216	0.0312 mg/L	0.00216	6.90%
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	-427.8	-0.0278 mg/L	0.00206	-0.0278 mg/L	0.00206	7.41%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	59.8	-0.00022 mg/L	0.000088	-0.00022 mg/L	0.000088	40.29%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	-96.6	-0.00026 mg/L	0.001479	-0.00026 mg/L	0.001479	574.27%
QC value within limits for Li 670.784 Recovery = Not calculated							

QC Failed. Continue with analysis.

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Sequence No.: 13 **Autosampler Location: 51**
Sample ID: LRC **Date Collected: 2/18/2011 3:46:05 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LRC

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: LRC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4556012.8						31273.68	0.69%
YRADIAL	281305.1						2983.61	1.06%
Ga 417.206	1346595.3						17352.55	1.29%
GaRADIAL	65354.5						688.33	1.05%
Ag 328.068†	-52.0	0.00015	mg/L	0.000582	0.00015	mg/L	0.000582	394.01%
Al 396.153†	86.5	0.0104	mg/L	0.01148	0.0104	mg/L	0.01148	110.86%
As 188.979†	-0.0	0.00003	mg/L	0.001334	0.00003	mg/L	0.001334	>999.9%
Ba 233.527†	11.9	-0.00002	mg/L	0.000064	-0.00002	mg/L	0.000064	274.00%

Be 234.861†	4.1	0.00000	mg/L	0.000006	0.00000	mg/L	0.000006 228.16%
B 249.677†	55.6	0.00275	mg/L	0.001074	0.00275	mg/L	0.001074 39.06%
Ca 227.546†	0.6	-0.0956	mg/L	0.05156	-0.0956	mg/L	0.05156 53.91%
Cd 228.802†	2.5	0.00028	mg/L	0.000155	0.00028	mg/L	0.000155 54.57%
Co 228.616†	0.3	0.00015	mg/L	0.000363	0.00015	mg/L	0.000363 236.20%
Cr 267.716†	527.6	0.00418	mg/L	0.000776	0.00418	mg/L	0.000776 18.57%
Cu 327.393†	-36.5	-0.00056	mg/L	0.000657	-0.00056	mg/L	0.000657 116.98%
Fe 239.562†	6.2	-0.00363	mg/L	0.007497	-0.00363	mg/L	0.007497 206.74%
Mg 279.077†	391746.5	477	mg/L	11.9	477	mg/L	11.9 2.50%
Mn 257.610†	105.4	-0.00703	mg/L	0.000158	-0.00703	mg/L	0.000158 2.24%
Mo 202.031†	-1.7	-0.00007	mg/L	0.000141	-0.00007	mg/L	0.000141 212.59%
Ni 231.604†	1.0	0.00008	mg/L	0.000260	0.00008	mg/L	0.000260 319.94%
Pb 220.353†	7.4	0.00127	mg/L	0.001416	0.00127	mg/L	0.001416 111.65%
Sb 206.836†	-4.1	-0.00152	mg/L	0.001334	-0.00152	mg/L	0.001334 88.02%
Se 196.026†	2.7	-0.00064	mg/L	0.000308	-0.00064	mg/L	0.000308 48.35%
Si 251.611†	505.1	0.0143	mg/L	0.00081	0.0143	mg/L	0.00081 5.65%
Sn 189.927†	2.7	-0.00039	mg/L	0.000428	-0.00039	mg/L	0.000428 109.62%
Ti 334.940†	175.3	0.00020	mg/L	0.000213	0.00020	mg/L	0.000213 105.46%
Tl 190.801†	12.5	0.00784	mg/L	0.003878	0.00784	mg/L	0.003878 49.46%
V 290.880†	-2280.7	-0.0140	mg/L	0.00145	-0.0140	mg/L	0.00145 10.30%
Zn 206.200†	81.1	0.00212	mg/L	0.000185	0.00212	mg/L	0.000185 8.75%
K 766.490†	89.1	0.0519	mg/L	0.03045	0.0519	mg/L	0.03045 58.65%
Na 589.592†	-9.7	0.00241	mg/L	0.008111	0.00241	mg/L	0.008111 336.76%
Sr 407.771†	11.8	-0.00027	mg/L	0.000127	-0.00027	mg/L	0.000127 47.89%
Li 670.784†	112.0	0.00234	mg/L	0.001445	0.00234	mg/L	0.001445 61.74%

User canceled analysis.

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Analysis Begun

Start Time: 2/18/2011 3:51:03 PM **Plasma On Time: 2/18/2011 7:37:54 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\peicp2\Sample Information\FRIDAY1.sif
Batch ID:
Results Data Set: 021811H5
Results Library: C:\pe\peicp2\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 52**
Sample ID: LRC **Date Collected: 2/18/2011 3:51:04 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LRC

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: LRC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4666652.5						56743.44	1.22%
YRADIAL	287633.5						2182.55	0.76%
Ga 417.206	1297315.3						8815.65	0.68%
GaRADIAL	64819.4						424.65	0.66%
Ag 328.068†	-260.0	-0.00086	mg/L	0.000721	-0.00086	mg/L	0.000721	84.21%
Al 396.153†	-18.9	-0.0108	mg/L	0.01586	-0.0108	mg/L	0.01586	147.45%
As 188.979†	3.2	0.00294	mg/L	0.002176	0.00294	mg/L	0.002176	74.10%
Ba 233.527†	2.9	-0.00014	mg/L	0.000039	-0.00014	mg/L	0.000039	28.17%
Be 234.861†	-18.8	-0.00004	mg/L	0.000006	-0.00004	mg/L	0.000006	15.53%
B 249.677†	111.5	0.00378	mg/L	0.000281	0.00378	mg/L	0.000281	7.42%
Ca 227.546†	3.7	-0.0170	mg/L	0.05425	-0.0170	mg/L	0.05425	318.69%
Cd 228.802†	-0.6	0.00009	mg/L	0.000150	0.00009	mg/L	0.000150	161.46%
Co 228.616†	0.6	0.00017	mg/L	0.000256	0.00017	mg/L	0.000256	148.99%
Cr 267.716†	-5.2	-0.00052	mg/L	0.000002	-0.00052	mg/L	0.000002	0.43%
Cu 327.393†	-37.4	-0.00056	mg/L	0.000196	-0.00056	mg/L	0.000196	35.22%
Fe 239.562†	-0.0	-0.00391	mg/L	0.003061	-0.00391	mg/L	0.003061	78.27%
Mg 279.077†	171.3	0.205	mg/L	0.0959	0.205	mg/L	0.0959	46.79%
Mn 257.610†	130.7	0.00201	mg/L	0.000014	0.00201	mg/L	0.000014	0.68%
Mo 202.031†	-8.0	-0.00053	mg/L	0.000371	-0.00053	mg/L	0.000371	69.72%
Ni 231.604†	31.1	0.00096	mg/L	0.000182	0.00096	mg/L	0.000182	18.95%
Pb 220.353†	6.4	0.00109	mg/L	0.000709	0.00109	mg/L	0.000709	64.95%
Sb 206.836†	-3.0	-0.00077	mg/L	0.001627	-0.00077	mg/L	0.001627	211.32%
Se 196.026†	1.8	-0.00126	mg/L	0.003166	-0.00126	mg/L	0.003166	251.21%
Si 251.611†	166.5	0.00439	mg/L	0.000779	0.00439	mg/L	0.000779	17.74%
Sn 189.927†	6.2	0.00022	mg/L	0.000454	0.00022	mg/L	0.000454	206.39%
Ti 334.940†	24.9	0.00000	mg/L	0.000147	0.00000	mg/L	0.000147	>999.9%
Tl 190.801†	-2.3	-0.00090	mg/L	0.000544	-0.00090	mg/L	0.000544	60.66%
V 290.880†	247.9	0.00289	mg/L	0.000363	0.00289	mg/L	0.000363	12.55%
Zn 206.200†	242.3	0.00698	mg/L	0.000194	0.00698	mg/L	0.000194	2.78%
K 766.490†	458.5	-0.0242	mg/L	0.03813	-0.0242	mg/L	0.03813	157.64%
Na 589.592†	2666076.8	216	mg/L	1.9	216	mg/L	1.9	0.88%
Sr 407.771†	-4.0	-0.00028	mg/L	0.000113	-0.00028	mg/L	0.000113	40.53%
Li 670.784†	134.2	0.00262	mg/L	0.001210	0.00262	mg/L	0.001210	46.22%

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Sequence No.: 2 **Autosampler Location: 53**
Sample ID: LRC **Date Collected: 2/18/2011 3:57:46 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LRC

Analyte	Back Pressure	Flow

All	169.0 kPa	0.50 L/min

Mean Data: LRC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4497917.4						70547.37	1.57%
YRADIAL	279600.0						1944.49	0.70%
Ga 417.206	1277637.1						24682.32	1.93%
GaRADIAL	64056.4						1024.47	1.60%
Ag 328.068†	1906.8	0.00990	mg/L	0.000599	0.00990	mg/L	0.000599	6.06%
Al 396.153†	-270.7	-0.0612	mg/L	0.00783	-0.0612	mg/L	0.00783	12.78%
As 188.979†	6.9	-0.00491	mg/L	0.002548	-0.00491	mg/L	0.002548	51.86%
Ba 233.527†	43.5	0.00055	mg/L	0.000074	0.00055	mg/L	0.000074	13.42%
Be 234.861†	-20.9	-0.00005	mg/L	0.000027	-0.00005	mg/L	0.000027	52.31%
B 249.677†	67.8	0.00320	mg/L	0.000434	0.00320	mg/L	0.000434	13.53%
Ca 227.546†	60038.0	565	mg/L	21.4	565	mg/L	21.4	3.79%
Cd 228.802†	-1.5	0.00002	mg/L	0.000142	0.00002	mg/L	0.000142	703.22%
Co 228.616†	3.6	0.00034	mg/L	0.000420	0.00034	mg/L	0.000420	123.36%
Cr 267.716†	697.5	0.00569	mg/L	0.000174	0.00569	mg/L	0.000174	3.06%
Cu 327.393†	-2682.7	-0.0189	mg/L	0.00062	-0.0189	mg/L	0.00062	3.27%
Fe 239.562†	20.2	0.0399	mg/L	0.00654	0.0399	mg/L	0.00654	16.42%
Mg 279.077†	3.8	0.00084	mg/L	0.007689	0.00084	mg/L	0.007689	914.61%
Mn 257.610†	211.6	0.00024	mg/L	0.000033	0.00024	mg/L	0.000033	13.93%
Mo 202.031†	-4.6	-0.00028	mg/L	0.000466	-0.00028	mg/L	0.000466	167.20%
Ni 231.604†	-25.7	-0.00075	mg/L	0.000228	-0.00075	mg/L	0.000228	30.33%
Pb 220.353†	-43.2	0.0199	mg/L	0.00031	0.0199	mg/L	0.00031	1.55%
Sb 206.836†	14.6	0.0105	mg/L	0.00184	0.0105	mg/L	0.00184	17.57%
Se 196.026†	-48.4	0.104	mg/L	0.0048	0.104	mg/L	0.0048	4.60%
Si 251.611†	597.0	0.0170	mg/L	0.00077	0.0170	mg/L	0.00077	4.55%
Sn 189.927†	-9.9	-0.00256	mg/L	0.001596	-0.00256	mg/L	0.001596	62.43%
Ti 334.940†	-4712.0	-0.00087	mg/L	0.000156	-0.00087	mg/L	0.000156	18.07%
Tl 190.801†	164.6	0.0468	mg/L	0.00395	0.0468	mg/L	0.00395	8.43%
V 290.880†	428.0	0.00410	mg/L	0.000585	0.00410	mg/L	0.000585	14.27%
Zn 206.200†	143.3	0.00401	mg/L	0.000080	0.00401	mg/L	0.000080	1.99%
K 766.490†	94.0	0.0537	mg/L	0.03083	0.0537	mg/L	0.03083	57.38%
Na 589.592†	789.3	0.0601	mg/L	0.01280	0.0601	mg/L	0.01280	21.32%
Sr 407.771†	28952.3	0.0281	mg/L	0.00334	0.0281	mg/L	0.00334	11.89%
Li 670.784†	-132.9	-0.00071	mg/L	0.001220	-0.00071	mg/L	0.001220	171.83%

Sequence No.: 3 **Autosampler Location: 54**
Sample ID: BLANK **Date Collected: 2/18/2011 4:04:24 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: BLANK

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4873909.4						40786.94	0.84%
YRADIAL	301047.7						6801.66	2.26%
Ga 417.206	1323531.0						14361.63	1.09%
GaRADIAL	67142.1						1006.08	1.50%
Ag 328.068†	-194.3	-0.00054	mg/L	0.000492	-0.00054	mg/L	0.000492	91.84%
Al 396.153†	6.4	-0.00569	mg/L	0.009885	-0.00569	mg/L	0.009885	173.77%
As 188.979†	0.9	0.00087	mg/L	0.002313	0.00087	mg/L	0.002313	265.74%
Ba 233.527†	-3.5	-0.00025	mg/L	0.000109	-0.00025	mg/L	0.000109	43.22%
Be 234.861†	-32.8	-0.00006	mg/L	0.000044	-0.00006	mg/L	0.000044	68.94%
B 249.677†	28.8	0.00223	mg/L	0.000330	0.00223	mg/L	0.000330	14.82%
Ca 227.546†	-0.1	-0.0537	mg/L	0.06630	-0.0537	mg/L	0.06630	123.58%
Cd 228.802†	2.6	0.00028	mg/L	0.000023	0.00028	mg/L	0.000023	8.21%
Co 228.616†	2.3	0.00026	mg/L	0.000239	0.00026	mg/L	0.000239	93.35%
Cr 267.716†	-4.1	-0.00051	mg/L	0.000061	-0.00051	mg/L	0.000061	11.77%
Cu 327.393†	-82.9	-0.00087	mg/L	0.000608	-0.00087	mg/L	0.000608	69.60%
Fe 239.562†	2.3	0.00115	mg/L	0.001829	0.00115	mg/L	0.001829	159.14%
Mg 279.077†	-4.2	-0.00877	mg/L	0.005442	-0.00877	mg/L	0.005442	62.06%

Mn 257.610†	-18.7	-0.00031 mg/L	0.000023	-0.00031 mg/L	0.000023	7.43%
Mo 202.031†	-1.7	-0.00007 mg/L	0.000324	-0.00007 mg/L	0.000324	494.85%
Ni 231.604†	-0.4	0.00004 mg/L	0.000118	0.00004 mg/L	0.000118	262.36%
Pb 220.353†	0.2	0.00005 mg/L	0.001196	0.00005 mg/L	0.001196	>999.9%
Sb 206.836†	-0.5	0.00081 mg/L	0.000330	0.00081 mg/L	0.000330	40.74%
Se 196.026†	-3.2	-0.00485 mg/L	0.001111	-0.00485 mg/L	0.001111	22.91%
Si 251.611†	8.7	-0.00023 mg/L	0.000591	-0.00023 mg/L	0.000591	253.63%
Sn 189.927†	1.5	-0.00058 mg/L	0.001078	-0.00058 mg/L	0.001078	184.70%
Ti 334.940†	49.1	0.00003 mg/L	0.000184	0.00003 mg/L	0.000184	618.05%
Tl 190.801†	1.2	0.00117 mg/L	0.002698	0.00117 mg/L	0.002698	231.10%
V 290.880†	-188.9	-0.00003 mg/L	0.000913	-0.00003 mg/L	0.000913	>999.9%
Zn 206.200†	33.5	0.00066 mg/L	0.000114	0.00066 mg/L	0.000114	17.11%
K 766.490†	-39.3	0.00339 mg/L	0.036117	0.00339 mg/L	0.036117	>999.9%
Na 589.592†	-385.1	-0.0247 mg/L	0.00823	-0.0247 mg/L	0.00823	33.34%
Sr 407.771†	-61.8	-0.00034 mg/L	0.000040	-0.00034 mg/L	0.000040	11.81%
Li 670.784†	-93.0	-0.00021 mg/L	0.000391	-0.00021 mg/L	0.000391	184.08%

Sequence No.: 4 **Autosampler Location: 55**
Sample ID: BLANK **Date Collected: 2/18/2011 4:11:07 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: BLANK

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5011150.2						51002.99	1.02%
YRADIAL	303368.8						5507.12	1.82%
Ga 417.206	1351359.4						12707.08	0.94%
GaRADIAL	67188.1						448.38	0.67%
Ag 328.068†	-80.1	0.00003	mg/L	0.000360	0.00003	mg/L	0.000360	>999.9%
Al 396.153†	6.9	-0.00559	mg/L	0.009576	-0.00559	mg/L	0.009576	171.28%
As 188.979†	-0.9	-0.00078	mg/L	0.002184	-0.00078	mg/L	0.002184	281.68%
Ba 233.527†	1.2	-0.00017	mg/L	0.000073	-0.00017	mg/L	0.000073	41.98%
Be 234.861†	-32.8	-0.00006	mg/L	0.000032	-0.00006	mg/L	0.000032	50.92%
B 249.677†	10.8	0.00187	mg/L	0.000153	0.00187	mg/L	0.000153	8.17%
Ca 227.546†	1.3	-0.0409	mg/L	0.05235	-0.0409	mg/L	0.05235	127.83%
Cd 228.802†	1.5	0.00023	mg/L	0.000126	0.00023	mg/L	0.000126	54.35%
Co 228.616†	5.1	0.00040	mg/L	0.000547	0.00040	mg/L	0.000547	136.46%
Cr 267.716†	2.7	-0.00045	mg/L	0.000076	-0.00045	mg/L	0.000076	16.74%
Cu 327.393†	-15.1	-0.00040	mg/L	0.000089	-0.00040	mg/L	0.000089	22.00%
Fe 239.562†	1.0	-0.00177	mg/L	0.002105	-0.00177	mg/L	0.002105	118.74%
Mg 279.077†	-5.6	-0.0106	mg/L	0.00102	-0.0106	mg/L	0.00102	9.66%
Mn 257.610†	-10.4	-0.00029	mg/L	0.000018	-0.00029	mg/L	0.000018	6.13%
Mo 202.031†	-2.7	-0.00014	mg/L	0.000267	-0.00014	mg/L	0.000267	194.16%
Ni 231.604†	-8.3	-0.00018	mg/L	0.000230	-0.00018	mg/L	0.000230	124.36%
Pb 220.353†	-0.9	-0.00013	mg/L	0.000594	-0.00013	mg/L	0.000594	454.06%
Sb 206.836†	-2.3	-0.00035	mg/L	0.000832	-0.00035	mg/L	0.000832	240.01%
Se 196.026†	-1.4	-0.00358	mg/L	0.001570	-0.00358	mg/L	0.001570	43.86%
Si 251.611†	4.5	-0.00035	mg/L	0.000331	-0.00035	mg/L	0.000331	93.24%
Sn 189.927†	-3.2	-0.00139	mg/L	0.000429	-0.00139	mg/L	0.000429	30.83%
Ti 334.940†	196.5	0.00023	mg/L	0.000071	0.00023	mg/L	0.000071	30.52%
Tl 190.801†	-0.4	0.00023	mg/L	0.001015	0.00023	mg/L	0.001015	450.68%
V 290.880†	-256.0	-0.00048	mg/L	0.000553	-0.00048	mg/L	0.000553	114.65%
Zn 206.200†	28.7	0.00052	mg/L	0.000094	0.00052	mg/L	0.000094	18.05%
K 766.490†	-15.8	0.0123	mg/L	0.02782	0.0123	mg/L	0.02782	226.09%
Na 589.592†	-644.1	-0.0434	mg/L	0.00928	-0.0434	mg/L	0.00928	21.40%
Sr 407.771†	-34.2	-0.00031	mg/L	0.000054	-0.00031	mg/L	0.000054	17.53%
Li 670.784†	-76.9	-0.00001	mg/L	0.000847	-0.00001	mg/L	0.000847	>999.9%

Sequence No.: 5 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/18/2011 4:17:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4733175.0						73702.26	1.56%
YRADIAL	292901.8						4601.51	1.57%
Ga 417.206	1300828.2						10305.09	0.79%
GaRADIAL	65211.3						2084.25	3.20%
Ag 328.068†	80021.6	0.399	mg/L	0.0023	0.399	mg/L	0.0023	0.58%
QC value within limits for Ag 328.068 Recovery = 99.70%								
Al 396.153†	51673.6	10.3	mg/L	0.08	10.3	mg/L	0.08	0.75%
QC value within limits for Al 396.153 Recovery = 103.37%								
As 188.979†	438.3	0.397	mg/L	0.0069	0.397	mg/L	0.0069	1.72%
QC value within limits for As 188.979 Recovery = 99.31%								
Ba 233.527†	57054.1	0.968	mg/L	0.0103	0.968	mg/L	0.0103	1.06%
QC value within limits for Ba 233.527 Recovery = 96.82%								
Be 234.861†	29694.6	0.0513	mg/L	0.00034	0.0513	mg/L	0.00034	0.66%
QC value within limits for Be 234.861 Recovery = 102.56%								
B 249.677†	26349.0	0.505	mg/L	0.0025	0.505	mg/L	0.0025	0.50%
QC value within limits for B 249.677 Recovery = 101.07%								
Ca 227.546†	1061.7	10.3	mg/L	0.06	10.3	mg/L	0.06	0.55%
QC value within limits for Ca 227.546 Recovery = 102.69%								
Cd 228.802†	892.5	0.0491	mg/L	0.00024	0.0491	mg/L	0.00024	0.49%
QC value within limits for Cd 228.802 Recovery = 98.22%								
Co 228.616†	3750.5	0.190	mg/L	0.0035	0.190	mg/L	0.0035	1.83%
QC value within limits for Co 228.616 Recovery = 95.03%								
Cr 267.716†	54517.5	0.482	mg/L	0.0059	0.482	mg/L	0.0059	1.23%
QC value within limits for Cr 267.716 Recovery = 96.31%								
Cu 327.393†	72317.2	0.503	mg/L	0.0024	0.503	mg/L	0.0024	0.48%
QC value within limits for Cu 327.393 Recovery = 100.62%								
Fe 239.562†	1758.8	3.81	mg/L	0.091	3.81	mg/L	0.091	2.40%
QC value within limits for Fe 239.562 Recovery = 95.22%								
Mg 279.077†	7890.1	9.61	mg/L	0.161	9.61	mg/L	0.161	1.68%
QC value within limits for Mg 279.077 Recovery = 96.06%								
Mn 257.610†	214700.3	0.489	mg/L	0.0053	0.489	mg/L	0.0053	1.09%
QC value within limits for Mn 257.610 Recovery = 97.71%								
Mo 202.031†	13322.7	0.996	mg/L	0.0160	0.996	mg/L	0.0160	1.60%
QC value within limits for Mo 202.031 Recovery = 99.64%								
Ni 231.604†	16630.8	0.484	mg/L	0.0031	0.484	mg/L	0.0031	0.64%
QC value within limits for Ni 231.604 Recovery = 96.80%								
Pb 220.353†	2881.2	0.492	mg/L	0.0071	0.492	mg/L	0.0071	1.44%
QC value within limits for Pb 220.353 Recovery = 98.30%								
Sb 206.836†	1931.9	1.24	mg/L	0.016	1.24	mg/L	0.016	1.30%
QC value within limits for Sb 206.836 Recovery = 103.52%								
Se 196.026†	567.7	0.407	mg/L	0.0069	0.407	mg/L	0.0069	1.70%
QC value within limits for Se 196.026 Recovery = 101.66%								
Si 251.611†	171856.4	5.01	mg/L	0.027	5.01	mg/L	0.027	0.54%
QC value within limits for Si 251.611 Recovery = 100.24%								
Sn 189.927†	5647.2	0.974	mg/L	0.0155	0.974	mg/L	0.0155	1.59%
QC value within limits for Sn 189.927 Recovery = 97.38%								
Ti 334.940†	702784.8	0.966	mg/L	0.0047	0.966	mg/L	0.0047	0.48%
QC value within limits for Ti 334.940 Recovery = 96.63%								
Tl 190.801†	826.5	0.500	mg/L	0.0060	0.500	mg/L	0.0060	1.20%
QC value within limits for Tl 190.801 Recovery = 100.05%								
V 290.880†	142596.3	0.955	mg/L	0.0105	0.955	mg/L	0.0105	1.10%
QC value within limits for V 290.880 Recovery = 95.51%								
Zn 206.200†	32107.2	0.974	mg/L	0.0102	0.974	mg/L	0.0102	1.04%
QC value within limits for Zn 206.200 Recovery = 97.41%								
K 766.490†	131851.2	50.7	mg/L	0.17	50.7	mg/L	0.17	0.33%
QC value within limits for K 766.490 Recovery = 101.32%								
Na 589.592†	684668.2	50.7	mg/L	0.92	50.7	mg/L	0.92	1.82%
QC value within limits for Na 589.592 Recovery = 101.39%								
Sr 407.771†	984461.5	0.964	mg/L	0.0772	0.964	mg/L	0.0772	8.01%
QC value within limits for Sr 407.771 Recovery = 96.39%								
Li 670.784†	81524.3	1.02	mg/L	0.009	1.02	mg/L	0.009	0.93%
QC value within limits for Li 670.784 Recovery = 101.63%								

All analyte(s) passed QC.

Sequence No.: 6 **Autosampler Location:** 1
Sample ID: CCB **Date Collected:** 2/18/2011 4:24:24 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4981279.2						40626.84	0.82%
YRADIAL	299860.9						6971.26	2.32%
Ga 417.206	1339799.3						5253.41	0.39%
GaRADIAL	65802.1						1190.21	1.81%
Ag 328.068†	-88.6	-0.00001	mg/L	0.000675	-0.00001	mg/L	0.000675	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	29.3	-0.00111	mg/L	0.006927	-0.00111	mg/L	0.006927	623.10%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.7	0.00067	mg/L	0.001623	0.00067	mg/L	0.001623	240.96%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-2.2	-0.00023	mg/L	0.000036	-0.00023	mg/L	0.000036	15.66%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-32.5	-0.00006	mg/L	0.000008	-0.00006	mg/L	0.000008	12.57%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	30.1	0.00224	mg/L	0.000070	0.00224	mg/L	0.000070	3.11%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	4.3	-0.0127	mg/L	0.05616	-0.0127	mg/L	0.05616	442.21%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-1.6	0.00005	mg/L	0.000089	0.00005	mg/L	0.000089	172.77%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	2.1	0.00025	mg/L	0.000121	0.00025	mg/L	0.000121	49.08%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	9.9	-0.00039	mg/L	0.000139	-0.00039	mg/L	0.000139	35.44%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	67.5	0.00017	mg/L	0.000439	0.00017	mg/L	0.000439	259.74%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	1.1	-0.00157	mg/L	0.006247	-0.00157	mg/L	0.006247	397.88%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-6.0	-0.0110	mg/L	0.00755	-0.0110	mg/L	0.00755	68.62%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	0.3	-0.00027	mg/L	0.000016	-0.00027	mg/L	0.000016	5.77%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-2.5	-0.00013	mg/L	0.000432	-0.00013	mg/L	0.000432	344.42%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-8.6	-0.00020	mg/L	0.000424	-0.00020	mg/L	0.000424	216.72%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	6.2	0.00107	mg/L	0.000988	0.00107	mg/L	0.000988	92.39%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	0.2	0.00131	mg/L	0.002755	0.00131	mg/L	0.002755	210.28%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.6	-0.00298	mg/L	0.000312	-0.00298	mg/L	0.000312	10.48%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	35.8	0.00056	mg/L	0.000295	0.00056	mg/L	0.000295	52.94%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-1.3	-0.00108	mg/L	0.000725	-0.00108	mg/L	0.000725	67.18%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	86.3	0.00008	mg/L	0.000048	0.00008	mg/L	0.000048	59.20%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	2.6	0.00200	mg/L	0.001192	0.00200	mg/L	0.001192	59.69%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-208.1	-0.00016	mg/L	0.000244	-0.00016	mg/L	0.000244	149.84%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	5.7	-0.00018	mg/L	0.000079	-0.00018	mg/L	0.000079	43.95%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	92.9	0.0534	mg/L	0.02078	0.0534	mg/L	0.02078	38.91%
QC value within limits for K 766.490 Recovery = Not calculated								

Na 589.592†	-396.4	-0.0255 mg/L	0.00571	-0.0255 mg/L	0.00571	22.39%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	103.6	-0.00017 mg/L	0.000009	-0.00017 mg/L	0.000009	5.22%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	-69.6	0.00008 mg/L	0.001972	0.00008 mg/L	0.001972	>999.9%	
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 7 **Autosampler Location: 56**
Sample ID: PBW 6R WG356895-02 **Date Collected: 2/18/2011 4:31:01 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 6R WG356895-02

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: PBW 6R WG356895-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4992065.0						30589.97	0.61%
YRADIAL	304880.1						10572.56	3.47%
Ga 417.206	1357340.9						8756.63	0.65%
GaRADIAL	66933.7						2027.95	3.03%
Ag 328.068†	-214.8	-0.00064	mg/L	0.000643	-0.00064	mg/L	0.000643	101.00%
Al 396.153†	36.0	0.00025	mg/L	0.011414	0.00025	mg/L	0.011414	>999.9%
As 188.979†	-2.7	-0.00248	mg/L	0.000469	-0.00248	mg/L	0.000469	18.93%
Ba 233.527†	2.4	-0.00015	mg/L	0.000055	-0.00015	mg/L	0.000055	36.38%
Be 234.861†	-26.3	-0.00005	mg/L	0.000010	-0.00005	mg/L	0.000010	18.86%
B 249.677†	-30.7	0.00109	mg/L	0.000078	0.00109	mg/L	0.000078	7.14%
Ca 227.546†	3.5	-0.0196	mg/L	0.03202	-0.0196	mg/L	0.03202	163.12%
Cd 228.802†	1.0	0.00021	mg/L	0.000145	0.00021	mg/L	0.000145	68.12%
Co 228.616†	-2.7	0.00000	mg/L	0.000177	0.00000	mg/L	0.000177	>999.9%
Cr 267.716†	0.2	-0.00048	mg/L	0.000093	-0.00048	mg/L	0.000093	19.57%
Cu 327.393†	37.4	-0.00004	mg/L	0.000310	-0.00004	mg/L	0.000310	798.81%
Fe 239.562†	1.9	0.00024	mg/L	0.004189	0.00024	mg/L	0.004189	>999.9%
Mg 279.077†	-4.8	-0.00954	mg/L	0.003379	-0.00954	mg/L	0.003379	35.41%
Mn 257.610†	15.3	-0.00024	mg/L	0.000013	-0.00024	mg/L	0.000013	5.51%
Mo 202.031†	-10.0	-0.00069	mg/L	0.000153	-0.00069	mg/L	0.000153	22.35%
Ni 231.604†	-0.4	0.00004	mg/L	0.000166	0.00004	mg/L	0.000166	383.89%
Pb 220.353†	-6.8	-0.00114	mg/L	0.001016	-0.00114	mg/L	0.001016	89.23%
Sb 206.836†	-2.9	-0.00072	mg/L	0.003106	-0.00072	mg/L	0.003106	432.83%
Se 196.026†	-0.1	-0.00261	mg/L	0.003978	-0.00261	mg/L	0.003978	152.62%
Si 251.611†	173.3	0.00459	mg/L	0.000553	0.00459	mg/L	0.000553	12.04%
Sn 189.927†	2.0	-0.00051	mg/L	0.000298	-0.00051	mg/L	0.000298	58.44%
Ti 334.940†	183.6	0.00022	mg/L	0.000041	0.00022	mg/L	0.000041	19.23%
Tl 190.801†	0.4	0.00070	mg/L	0.002522	0.00070	mg/L	0.002522	358.93%
V 290.880†	-174.8	0.00006	mg/L	0.000403	0.00006	mg/L	0.000403	652.97%
Zn 206.200†	63.2	0.00156	mg/L	0.000151	0.00156	mg/L	0.000151	9.64%
K 766.490†	-70.7	-0.00849	mg/L	0.041528	-0.00849	mg/L	0.041528	489.35%
Na 589.592†	-713.6	-0.0484	mg/L	0.01319	-0.0484	mg/L	0.01319	27.28%
Sr 407.771†	46.5	-0.00023	mg/L	0.000058	-0.00023	mg/L	0.000058	25.13%
Li 670.784†	-128.3	-0.00065	mg/L	0.001788	-0.00065	mg/L	0.001788	273.83%

Sequence No.: 8 **Autosampler Location: 57**
Sample ID: LCSW 6R WG356895-03 **Date Collected: 2/18/2011 4:37:38 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 6R WG356895-03

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: LCSW 6R WG356895-03

Mean Corrected	Calib.	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	4951235.4						37652.96	0.76%
YRADIAL	304252.4						2589.28	0.85%
Ga 417.206	1361257.6						12006.21	0.88%
GaRADIAL	66770.7						1064.41	1.59%
Ag 328.068†	40290.8	0.201	mg/L	0.0021	0.201	mg/L	0.0021	1.03%
Al 396.153†	25595.2	5.12	mg/L	0.011	5.12	mg/L	0.011	0.21%
As 188.979†	215.5	0.195	mg/L	0.0022	0.195	mg/L	0.0022	1.13%
Ba 233.527†	28645.2	0.486	mg/L	0.0051	0.486	mg/L	0.0051	1.04%
Be 234.861†	14753.9	0.0255	mg/L	0.00010	0.0255	mg/L	0.00010	0.38%
B 249.677†	53232.4	1.01	mg/L	0.011	1.01	mg/L	0.011	1.11%
Ca 227.546†	525.3	5.06	mg/L	0.037	5.06	mg/L	0.037	0.74%
Cd 228.802†	435.1	0.0240	mg/L	0.00026	0.0240	mg/L	0.00026	1.06%
Co 228.616†	1850.9	0.0938	mg/L	0.00088	0.0938	mg/L	0.00088	0.94%
Cr 267.716†	27160.3	0.240	mg/L	0.0015	0.240	mg/L	0.0015	0.63%
Cu 327.393†	36627.4	0.255	mg/L	0.0028	0.255	mg/L	0.0028	1.09%
Fe 239.562†	874.7	1.89	mg/L	0.027	1.89	mg/L	0.027	1.40%
Mg 279.077†	3978.3	4.84	mg/L	0.041	4.84	mg/L	0.041	0.85%
Mn 257.610†	109139.1	0.248	mg/L	0.0020	0.248	mg/L	0.0020	0.81%
Mo 202.031†	6516.1	0.487	mg/L	0.0071	0.487	mg/L	0.0071	1.46%
Ni 231.604†	8296.1	0.241	mg/L	0.0030	0.241	mg/L	0.0030	1.23%
Pb 220.353†	1421.1	0.242	mg/L	0.0022	0.242	mg/L	0.0022	0.91%
Sb 206.836†	955.0	0.615	mg/L	0.0055	0.615	mg/L	0.0055	0.90%
Se 196.026†	280.5	0.200	mg/L	0.0013	0.200	mg/L	0.0013	0.65%
Si 251.611†	89472.2	2.61	mg/L	0.027	2.61	mg/L	0.027	1.05%
Sn 189.927†	2998.8	0.517	mg/L	0.0037	0.517	mg/L	0.0037	0.73%
Ti 334.940†	351219.8	0.483	mg/L	0.0019	0.483	mg/L	0.0019	0.40%
Tl 190.801†	414.7	0.251	mg/L	0.0012	0.251	mg/L	0.0012	0.50%
V 290.880†	71130.9	0.477	mg/L	0.0047	0.477	mg/L	0.0047	0.99%
Zn 206.200†	15816.0	0.480	mg/L	0.0028	0.480	mg/L	0.0028	0.59%
K 766.490†	65585.9	25.0	mg/L	0.05	25.0	mg/L	0.05	0.22%
Na 589.592†	345175.0	25.2	mg/L	0.41	25.2	mg/L	0.41	1.64%
Sr 407.771†	491969.2	0.482	mg/L	0.0501	0.482	mg/L	0.0501	10.39%
Li 670.784†	40904.3	0.510	mg/L	0.0018	0.510	mg/L	0.0018	0.35%

Sequence No.: 9 **Autosampler Location: 58**
Sample ID: L1102044705 WG356895-01 **Date Collected: 2/18/2011 4:44:28 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102044705 WG356895-01

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102044705 WG356895-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5115586.2						26642.31	0.52%
YRADIAL	312206.0						9986.35	3.20%
Ga 417.206	1392308.3						10617.64	0.76%
GaRADIAL	67942.7						1416.32	2.08%
Ag 328.068†	-265.1	-0.00089	mg/L	0.000624	-0.00089	mg/L	0.000624	70.35%
Al 396.153†	33.1	-0.00035	mg/L	0.002670	-0.00035	mg/L	0.002670	754.66%
As 188.979†	-0.6	-0.00053	mg/L	0.001498	-0.00053	mg/L	0.001498	280.07%
Ba 233.527†	5.6	-0.00010	mg/L	0.000091	-0.00010	mg/L	0.000091	93.18%
Be 234.861†	-22.0	-0.00005	mg/L	0.000020	-0.00005	mg/L	0.000020	43.80%
B 249.677†	50.1	0.00262	mg/L	0.000124	0.00262	mg/L	0.000124	4.73%
Ca 227.546†	8.3	0.0258	mg/L	0.06645	0.0258	mg/L	0.06645	257.65%
Cd 228.802†	0.9	0.00020	mg/L	0.000178	0.00020	mg/L	0.000178	88.90%
Co 228.616†	6.7	0.00048	mg/L	0.000245	0.00048	mg/L	0.000245	50.60%
Cr 267.716†	54.4	0.00000	mg/L	0.000033	0.00000	mg/L	0.000033	>999.9%
Cu 327.393†	146.4	0.00072	mg/L	0.000496	0.00072	mg/L	0.000496	69.22%
Fe 239.562†	1.9	0.00024	mg/L	0.002853	0.00024	mg/L	0.002853	>999.9%
Mg 279.077†	0.6	-0.00300	mg/L	0.005269	-0.00300	mg/L	0.005269	175.36%
Mn 257.610†	17.1	-0.00023	mg/L	0.000011	-0.00023	mg/L	0.000011	4.63%
Mo 202.031†	-2.4	-0.00012	mg/L	0.000082	-0.00012	mg/L	0.000082	70.78%
Ni 231.604†	2.0	0.00012	mg/L	0.000250	0.00012	mg/L	0.000250	216.42%
Pb 220.353†	-2.7	-0.00044	mg/L	0.002654	-0.00044	mg/L	0.002654	596.85%
Sb 206.836†	-2.8	-0.00063	mg/L	0.001676	-0.00063	mg/L	0.001676	266.31%

Se 196.026†	1.2	-0.00171	mg/L	0.002336	-0.00171	mg/L	0.002336 136.67%
Si 251.611†	61.1	0.00130	mg/L	0.000188	0.00130	mg/L	0.000188 14.48%
Sn 189.927†	1.4	-0.00061	mg/L	0.000140	-0.00061	mg/L	0.000140 22.98%
Ti 334.940†	126.2	0.00014	mg/L	0.000166	0.00014	mg/L	0.000166 121.42%
Tl 190.801†	-1.1	-0.00018	mg/L	0.000932	-0.00018	mg/L	0.000932 514.16%
V 290.880†	-211.5	-0.00018	mg/L	0.000665	-0.00018	mg/L	0.000665 360.43%
Zn 206.200†	55.2	0.00132	mg/L	0.000025	0.00132	mg/L	0.000025 1.90%
K 766.490†	36.2	0.0320	mg/L	0.02559	0.0320	mg/L	0.02559 80.06%
Na 589.592†	-521.4	-0.0345	mg/L	0.01112	-0.0345	mg/L	0.01112 32.21%
Sr 407.771†	90.1	-0.00019	mg/L	0.000075	-0.00019	mg/L	0.000075 40.13%
Li 670.784†	-39.6	0.00045	mg/L	0.000892	0.00045	mg/L	0.000892 197.13%

Sequence No.: 10 **Autosampler Location: 59**
Sample ID: L1102044705S WG356895-04 **Date Collected: 2/18/2011 4:51:07 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102044705S WG356895-04

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102044705S WG356895-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4874560.4						54187.96	1.11%
YRADIAL	305445.5						1985.85	0.65%
Ga 417.206	1341732.9						26599.33	1.98%
GaRADIAL	66535.2						1642.17	2.47%
Ag 328.068†	40232.8	0.201	mg/L	0.0031	0.201	mg/L	0.0031	1.56%
Al 396.153†	26175.7	5.23	mg/L	0.018	5.23	mg/L	0.018	0.34%
As 188.979†	220.6	0.200	mg/L	0.0041	0.200	mg/L	0.0041	2.07%
Ba 233.527†	28572.0	0.485	mg/L	0.0041	0.485	mg/L	0.0041	0.84%
Be 234.861†	14753.6	0.0255	mg/L	0.00032	0.0255	mg/L	0.00032	1.25%
B 249.677†	52972.2	1.01	mg/L	0.017	1.01	mg/L	0.017	1.66%
Ca 227.546†	536.9	5.17	mg/L	0.098	5.17	mg/L	0.098	1.89%
Cd 228.802†	447.2	0.0247	mg/L	0.00026	0.0247	mg/L	0.00026	1.04%
Co 228.616†	1895.0	0.0961	mg/L	0.00083	0.0961	mg/L	0.00083	0.87%
Cr 267.716†	27321.9	0.241	mg/L	0.0021	0.241	mg/L	0.0021	0.87%
Cu 327.393†	36446.2	0.253	mg/L	0.0047	0.253	mg/L	0.0047	1.86%
Fe 239.562†	869.3	1.88	mg/L	0.041	1.88	mg/L	0.041	2.19%
Mg 279.077†	3967.3	4.83	mg/L	0.061	4.83	mg/L	0.061	1.26%
Mn 257.610†	108132.7	0.246	mg/L	0.0021	0.246	mg/L	0.0021	0.86%
Mo 202.031†	6472.7	0.484	mg/L	0.0056	0.484	mg/L	0.0056	1.15%
Ni 231.604†	8377.6	0.244	mg/L	0.0019	0.244	mg/L	0.0019	0.78%
Pb 220.353†	1451.7	0.248	mg/L	0.0023	0.248	mg/L	0.0023	0.93%
Sb 206.836†	973.7	0.627	mg/L	0.0137	0.627	mg/L	0.0137	2.19%
Se 196.026†	286.7	0.204	mg/L	0.0007	0.204	mg/L	0.0007	0.32%
Si 251.611†	88732.6	2.59	mg/L	0.049	2.59	mg/L	0.049	1.88%
Sn 189.927†	3002.5	0.517	mg/L	0.0051	0.517	mg/L	0.0051	0.99%
Ti 334.940†	359760.3	0.495	mg/L	0.0017	0.495	mg/L	0.0017	0.35%
Tl 190.801†	427.0	0.259	mg/L	0.0052	0.259	mg/L	0.0052	2.03%
V 290.880†	71193.0	0.477	mg/L	0.0055	0.477	mg/L	0.0055	1.16%
Zn 206.200†	15840.9	0.480	mg/L	0.0035	0.480	mg/L	0.0035	0.73%
K 766.490†	66679.0	25.4	mg/L	0.11	25.4	mg/L	0.11	0.42%
Na 589.592†	348790.4	25.5	mg/L	0.63	25.5	mg/L	0.63	2.47%
Sr 407.771†	495864.9	0.485	mg/L	0.0444	0.485	mg/L	0.0444	9.14%
Li 670.784†	41741.4	0.521	mg/L	0.0024	0.521	mg/L	0.0024	0.45%

Sequence No.: 11 **Autosampler Location: 60**
Sample ID: L1102044705SD WG356895-05 **Date Collected: 2/18/2011 4:57:51 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102044705SD WG356895-05

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102044705SD WG356895-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4838182.9						40711.61	0.84%
YRADIAL	305522.9						2215.75	0.73%
Ga 417.206	1346042.9						14635.13	1.09%
GaRADIAL	66150.0						1190.45	1.80%
Ag 328.068†	40618.5	0.203	mg/L	0.0018	0.203	mg/L	0.0018	0.89%
Al 396.153†	26238.5	5.25	mg/L	0.028	5.25	mg/L	0.028	0.53%
As 188.979†	215.1	0.195	mg/L	0.0024	0.195	mg/L	0.0024	1.22%
Ba 233.527†	29317.5	0.497	mg/L	0.0003	0.497	mg/L	0.0003	0.06%
Be 234.861†	14917.6	0.0258	mg/L	0.00032	0.0258	mg/L	0.00032	1.24%
B 249.677†	53404.2	1.01	mg/L	0.012	1.01	mg/L	0.012	1.15%
Ca 227.546†	525.5	5.06	mg/L	0.101	5.06	mg/L	0.101	1.99%
Cd 228.802†	444.8	0.0246	mg/L	0.00057	0.0246	mg/L	0.00057	2.31%
Co 228.616†	1893.1	0.0960	mg/L	0.00073	0.0960	mg/L	0.00073	0.76%
Cr 267.716†	27809.3	0.245	mg/L	0.0022	0.245	mg/L	0.0022	0.91%
Cu 327.393†	36905.1	0.257	mg/L	0.0019	0.257	mg/L	0.0019	0.74%
Fe 239.562†	857.0	1.85	mg/L	0.034	1.85	mg/L	0.034	1.81%
Mg 279.077†	3917.4	4.77	mg/L	0.056	4.77	mg/L	0.056	1.17%
Mn 257.610†	110389.0	0.251	mg/L	0.0005	0.251	mg/L	0.0005	0.19%
Mo 202.031†	6622.6	0.495	mg/L	0.0042	0.495	mg/L	0.0042	0.85%
Ni 231.604†	8459.4	0.246	mg/L	0.0028	0.246	mg/L	0.0028	1.12%
Pb 220.353†	1458.7	0.249	mg/L	0.0017	0.249	mg/L	0.0017	0.68%
Sb 206.836†	965.7	0.622	mg/L	0.0056	0.622	mg/L	0.0056	0.91%
Se 196.026†	282.0	0.201	mg/L	0.0035	0.201	mg/L	0.0035	1.73%
Si 251.611†	89355.8	2.61	mg/L	0.027	2.61	mg/L	0.027	1.04%
Sn 189.927†	2978.7	0.513	mg/L	0.0048	0.513	mg/L	0.0048	0.93%
Ti 334.940†	354846.4	0.488	mg/L	0.0032	0.488	mg/L	0.0032	0.66%
Tl 190.801†	423.5	0.256	mg/L	0.0015	0.256	mg/L	0.0015	0.58%
V 290.880†	72739.3	0.488	mg/L	0.0026	0.488	mg/L	0.0026	0.53%
Zn 206.200†	16096.6	0.488	mg/L	0.0024	0.488	mg/L	0.0024	0.48%
K 766.490†	65960.7	25.1	mg/L	0.23	25.1	mg/L	0.23	0.93%
Na 589.592†	347542.8	25.4	mg/L	0.25	25.4	mg/L	0.25	1.00%
Sr 407.771†	483665.7	0.473	mg/L	0.0382	0.473	mg/L	0.0382	8.06%
Li 670.784†	41353.9	0.516	mg/L	0.0023	0.516	mg/L	0.0023	0.44%

Sequence No.: 12 **Autosampler Location: 61**
Sample ID: L1102045301 **Date Collected: 2/18/2011 5:04:31 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102045301

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102045301

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5024587.9						41902.18	0.83%
YRADIAL	311294.9						3983.93	1.28%
Ga 417.206	1363411.2						13691.37	1.00%
GaRADIAL	67523.1						1261.90	1.87%
Ag 328.068†	-130.6	-0.00022	mg/L	0.000557	-0.00022	mg/L	0.000557	254.76%
Al 396.153†	85.2	0.0101	mg/L	0.00578	0.0101	mg/L	0.00578	57.19%
As 188.979†	3.2	0.00299	mg/L	0.002326	0.00299	mg/L	0.002326	77.77%
Ba 233.527†	14.2	0.00005	mg/L	0.000123	0.00005	mg/L	0.000123	255.50%
Be 234.861†	-29.0	-0.00006	mg/L	0.000024	-0.00006	mg/L	0.000024	40.78%
B 249.677†	2650.7	0.0518	mg/L	0.00101	0.0518	mg/L	0.00101	1.95%
Ca 227.546†	3.9	-0.0159	mg/L	0.01786	-0.0159	mg/L	0.01786	112.30%
Cd 228.802†	0.1	0.00013	mg/L	0.000135	0.00013	mg/L	0.000135	104.53%
Co 228.616†	1.0	0.00019	mg/L	0.000338	0.00019	mg/L	0.000338	180.63%
Cr 267.716†	34.0	-0.00018	mg/L	0.000098	-0.00018	mg/L	0.000098	54.93%
Cu 327.393†	657.7	0.00427	mg/L	0.000978	0.00427	mg/L	0.000978	22.92%
Fe 239.562†	5.3	0.00769	mg/L	0.002194	0.00769	mg/L	0.002194	28.53%
Mg 279.077†	0.4	-0.00323	mg/L	0.000854	-0.00323	mg/L	0.000854	26.46%
Mn 257.610†	379.2	0.00061	mg/L	0.000018	0.00061	mg/L	0.000018	3.03%

Mo 202.031†	-4.7	-0.00028 mg/L	0.000247	-0.00028 mg/L	0.000247	87.07%
Ni 231.604†	6.1	0.00023 mg/L	0.000271	0.00023 mg/L	0.000271	116.09%
Pb 220.353†	-3.9	-0.00064 mg/L	0.001113	-0.00064 mg/L	0.001113	173.42%
Sb 206.836†	-0.1	0.00109 mg/L	0.000461	0.00109 mg/L	0.000461	42.31%
Se 196.026†	0.8	-0.00198 mg/L	0.002970	-0.00198 mg/L	0.002970	149.85%
Si 251.611†	2635.1	0.0766 mg/L	0.00055	0.0766 mg/L	0.00055	0.72%
Sn 189.927†	1.9	-0.00051 mg/L	0.000508	-0.00051 mg/L	0.000508	99.14%
Ti 334.940†	197.7	0.00023 mg/L	0.000215	0.00023 mg/L	0.000215	91.63%
Tl 190.801†	0.9	0.00097 mg/L	0.004429	0.00097 mg/L	0.004429	455.12%
V 290.880†	-93.5	0.00061 mg/L	0.000448	0.00061 mg/L	0.000448	74.03%
Zn 206.200†	101.2	0.00271 mg/L	0.000031	0.00271 mg/L	0.000031	1.14%
K 766.490†	241.5	0.109 mg/L	0.0263	0.109 mg/L	0.0263	24.10%
Na 589.592†	4481.5	0.326 mg/L	0.0102	0.326 mg/L	0.0102	3.12%
Sr 407.771†	174.9	-0.00011 mg/L	0.000045	-0.00011 mg/L	0.000045	42.13%
Li 670.784†	-214.9	-0.00173 mg/L	0.001295	-0.00173 mg/L	0.001295	74.79%

Sequence No.: 13 **Autosampler Location: 62**
Sample ID: L1102045301PS WG356956-01 **Date Collected: 2/18/2011 5:11:12 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102045301PS WG356956-01

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102045301PS WG356956-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4959272.9						16631.63	0.34%
YRADIAL	304784.4						5929.62	1.95%
Ga 417.206	1352383.1						13132.70	0.97%
GaRADIAL	66049.3						1525.89	2.31%
Ag 328.068†	40071.4	0.200	mg/L	0.0025	0.200	mg/L	0.0025	1.24%
Al 396.153†	25853.5	5.17	mg/L	0.028	5.17	mg/L	0.028	0.55%
As 188.979†	214.8	0.195	mg/L	0.0018	0.195	mg/L	0.0018	0.92%
Ba 233.527†	28282.7	0.480	mg/L	0.0024	0.480	mg/L	0.0024	0.51%
Be 234.861†	14680.1	0.0253	mg/L	0.00023	0.0253	mg/L	0.00023	0.89%
B 249.677†	55196.1	1.05	mg/L	0.013	1.05	mg/L	0.013	1.21%
Ca 227.546†	531.0	5.11	mg/L	0.079	5.11	mg/L	0.079	1.54%
Cd 228.802†	434.5	0.0240	mg/L	0.00027	0.0240	mg/L	0.00027	1.11%
Co 228.616†	1846.8	0.0937	mg/L	0.00064	0.0937	mg/L	0.00064	0.68%
Cr 267.716†	26744.4	0.236	mg/L	0.0012	0.236	mg/L	0.0012	0.51%
Cu 327.393†	36738.1	0.255	mg/L	0.0040	0.255	mg/L	0.0040	1.55%
Fe 239.562†	870.3	1.88	mg/L	0.030	1.88	mg/L	0.030	1.59%
Mg 279.077†	3951.2	4.81	mg/L	0.071	4.81	mg/L	0.071	1.47%
Mn 257.610†	107854.0	0.245	mg/L	0.0010	0.245	mg/L	0.0010	0.41%
Mo 202.031†	6383.4	0.477	mg/L	0.0055	0.477	mg/L	0.0055	1.14%
Ni 231.604†	8202.0	0.239	mg/L	0.0018	0.239	mg/L	0.0018	0.76%
Pb 220.353†	1417.0	0.242	mg/L	0.0011	0.242	mg/L	0.0011	0.43%
Sb 206.836†	955.7	0.615	mg/L	0.0063	0.615	mg/L	0.0063	1.03%
Se 196.026†	280.4	0.200	mg/L	0.0045	0.200	mg/L	0.0045	2.24%
Si 251.611†	90980.8	2.65	mg/L	0.037	2.65	mg/L	0.037	1.38%
Sn 189.927†	-8.0	-0.00224	mg/L	0.000479	-0.00224	mg/L	0.000479	21.40%
Ti 334.940†	344505.4	0.474	mg/L	0.0018	0.474	mg/L	0.0018	0.38%
Tl 190.801†	412.2	0.250	mg/L	0.0011	0.250	mg/L	0.0011	0.46%
V 290.880†	70091.0	0.470	mg/L	0.0012	0.470	mg/L	0.0012	0.26%
Zn 206.200†	15669.2	0.475	mg/L	0.0010	0.475	mg/L	0.0010	0.20%
K 766.490†	65127.3	24.8	mg/L	0.11	24.8	mg/L	0.11	0.43%
Na 589.592†	345748.1	25.3	mg/L	0.20	25.3	mg/L	0.20	0.78%
Sr 407.771†	475957.8	0.466	mg/L	0.0384	0.466	mg/L	0.0384	8.24%
Li 670.784†	40694.0	0.508	mg/L	0.0040	0.508	mg/L	0.0040	0.80%

Sequence No.: 14 **Autosampler Location: 63**
Sample ID: L1102045301DL WG356956-02 **Date Collected: 2/18/2011 5:17:51 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102045301DL WG356956-02

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102045301DL WG356956-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5090640.1						26847.29	0.53%
YRADIAL	302325.9						2235.94	0.74%
Ga 417.206	1360079.8						15489.28	1.14%
GaRADIAL	65490.9						799.57	1.22%
Ag 328.068†	-88.2	-0.00001	mg/L	0.001028	-0.00001	mg/L	0.001028	>999.9%
Al 396.153†	40.7	0.00118	mg/L	0.032500	0.00118	mg/L	0.032500	>999.9%
As 188.979†	-1.0	-0.00087	mg/L	0.002278	-0.00087	mg/L	0.002278	260.82%
Ba 233.527†	7.2	-0.00007	mg/L	0.000098	-0.00007	mg/L	0.000098	137.49%
Be 234.861†	-19.0	-0.00004	mg/L	0.000027	-0.00004	mg/L	0.000027	64.88%
B 249.677†	849.0	0.0177	mg/L	0.00110	0.0177	mg/L	0.00110	6.20%
Ca 227.546†	1.7	-0.0373	mg/L	0.05031	-0.0373	mg/L	0.05031	135.05%
Cd 228.802†	0.7	0.00019	mg/L	0.000226	0.00019	mg/L	0.000226	118.91%
Co 228.616†	0.2	0.00015	mg/L	0.000223	0.00015	mg/L	0.000223	148.31%
Cr 267.716†	8.5	-0.00040	mg/L	0.000028	-0.00040	mg/L	0.000028	7.05%
Cu 327.393†	135.3	0.00064	mg/L	0.000712	0.00064	mg/L	0.000712	111.16%
Fe 239.562†	2.5	0.00151	mg/L	0.001989	0.00151	mg/L	0.001989	131.91%
Mg 279.077†	-5.3	-0.0102	mg/L	0.00104	-0.0102	mg/L	0.00104	10.23%
Mn 257.610†	106.8	-0.00002	mg/L	0.000004	-0.00002	mg/L	0.000004	16.41%
Mo 202.031†	-4.4	-0.00026	mg/L	0.000245	-0.00026	mg/L	0.000245	93.70%
Ni 231.604†	-5.9	-0.00012	mg/L	0.000124	-0.00012	mg/L	0.000124	106.09%
Pb 220.353†	-0.3	-0.00003	mg/L	0.000634	-0.00003	mg/L	0.000634	>999.9%
Sb 206.836†	-1.6	0.00012	mg/L	0.000500	0.00012	mg/L	0.000500	430.56%
Se 196.026†	-5.1	-0.00619	mg/L	0.003645	-0.00619	mg/L	0.003645	58.84%
Si 251.611†	601.4	0.0171	mg/L	0.00060	0.0171	mg/L	0.00060	3.50%
Sn 189.927†	1.1	-0.00067	mg/L	0.000391	-0.00067	mg/L	0.000391	58.74%
Ti 334.940†	163.8	0.00019	mg/L	0.000147	0.00019	mg/L	0.000147	78.44%
Tl 190.801†	0.8	0.00093	mg/L	0.000650	0.00093	mg/L	0.000650	69.78%
V 290.880†	-191.1	-0.00005	mg/L	0.001157	-0.00005	mg/L	0.001157	>999.9%
Zn 206.200†	68.8	0.00173	mg/L	0.000090	0.00173	mg/L	0.000090	5.21%
K 766.490†	22.0	0.0265	mg/L	0.01606	0.0265	mg/L	0.01606	60.66%
Na 589.592†	750.0	0.0572	mg/L	0.01294	0.0572	mg/L	0.01294	22.61%
Sr 407.771†	12.1	-0.00026	mg/L	0.000043	-0.00026	mg/L	0.000043	16.16%
Li 670.784†	-148.1	-0.00090	mg/L	0.000935	-0.00090	mg/L	0.000935	104.11%

Sequence No.: 15 **Autosampler Location: 64**
Sample ID: L1102045302 **Date Collected: 2/18/2011 5:24:29 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102045302

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102045302

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5095659.2						82036.99	1.61%
YRADIAL	315075.9						4873.82	1.55%
Ga 417.206	1387141.2						35394.15	2.55%
GaRADIAL	68331.4						610.91	0.89%
Ag 328.068†	-141.9	-0.00028	mg/L	0.000791	-0.00028	mg/L	0.000791	282.67%
Al 396.153†	253.3	0.0438	mg/L	0.00289	0.0438	mg/L	0.00289	6.59%
As 188.979†	2.9	0.00268	mg/L	0.002108	0.00268	mg/L	0.002108	78.54%
Ba 233.527†	51.3	0.00067	mg/L	0.000114	0.00067	mg/L	0.000114	16.94%
Be 234.861†	-20.5	-0.00005	mg/L	0.000002	-0.00005	mg/L	0.000002	3.43%
B 249.677†	3004.5	0.0586	mg/L	0.00150	0.0586	mg/L	0.00150	2.56%
Ca 227.546†	5.3	-0.00267	mg/L	0.035016	-0.00267	mg/L	0.035016	>999.9%
Cd 228.802†	0.9	0.00018	mg/L	0.000237	0.00018	mg/L	0.000237	134.74%
Co 228.616†	3.0	0.00029	mg/L	0.000169	0.00029	mg/L	0.000169	58.42%
Cr 267.716†	60.3	0.00005	mg/L	0.000146	0.00005	mg/L	0.000146	280.25%

Cu 327.393†	3822.8	0.0262	mg/L	0.00083	0.0262	mg/L	0.00083 3.18%
Fe 239.562†	14.0	0.0264	mg/L	0.00086	0.0264	mg/L	0.00086 3.24%
Mg 279.077†	-5.3	-0.0102	mg/L	0.00266	-0.0102	mg/L	0.00266 26.04%
Mn 257.610†	1005.3	0.00203	mg/L	0.000043	0.00203	mg/L	0.000043 2.13%
Mo 202.031†	-6.6	-0.00043	mg/L	0.000171	-0.00043	mg/L	0.000171 39.67%
Ni 231.604†	2.2	0.00012	mg/L	0.000248	0.00012	mg/L	0.000248 207.45%
Pb 220.353†	8.4	0.00142	mg/L	0.000161	0.00142	mg/L	0.000161 11.32%
Sb 206.836†	-2.6	-0.00054	mg/L	0.000629	-0.00054	mg/L	0.000629 117.11%
Se 196.026†	-3.3	-0.00492	mg/L	0.002227	-0.00492	mg/L	0.002227 45.25%
Si 251.611†	3944.0	0.115	mg/L	0.0098	0.115	mg/L	0.0098 8.54%
Sn 189.927†	2.6	-0.00040	mg/L	0.000118	-0.00040	mg/L	0.000118 29.35%
Ti 334.940†	542.6	0.00071	mg/L	0.000260	0.00071	mg/L	0.000260 36.66%
Tl 190.801†	-1.2	-0.00026	mg/L	0.001292	-0.00026	mg/L	0.001292 495.47%
V 290.880†	-308.9	-0.00084	mg/L	0.000474	-0.00084	mg/L	0.000474 56.80%
Zn 206.200†	237.4	0.00684	mg/L	0.000073	0.00684	mg/L	0.000073 1.06%
K 766.490†	235.8	0.107	mg/L	0.0266	0.107	mg/L	0.0266 24.92%
Na 589.592†	9540.8	0.692	mg/L	0.0027	0.692	mg/L	0.0027 0.39%
Sr 407.771†	247.7	-0.00004	mg/L	0.000044	-0.00004	mg/L	0.000044 120.74%
Li 670.784†	-107.8	-0.00040	mg/L	0.001723	-0.00040	mg/L	0.001723 434.28%

Sequence No.: 16 **Autosampler Location: 65**
Sample ID: L1102045303 **Date Collected: 2/18/2011 5:31:09 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102045303

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102045303

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5107367.0						17129.52	0.34%
YRADIAL	316942.8						2596.51	0.82%
Ga 417.206	1387166.9						2629.17	0.19%
GaRADIAL	68488.5						1708.88	2.50%
Ag 328.068†	-37.1	0.00024	mg/L	0.000767	0.00024	mg/L	0.000767	314.22%
Al 396.153†	87.0	0.0105	mg/L	0.01173	0.0105	mg/L	0.01173	112.20%
As 188.979†	0.0	0.00006	mg/L	0.003960	0.00006	mg/L	0.003960	>999.9%
Ba 233.527†	-0.4	-0.00020	mg/L	0.000117	-0.00020	mg/L	0.000117	57.55%
Be 234.861†	-20.4	-0.00004	mg/L	0.000030	-0.00004	mg/L	0.000030	69.42%
B 249.677†	2603.8	0.0509	mg/L	0.00100	0.0509	mg/L	0.00100	1.97%
Ca 227.546†	2.2	-0.0319	mg/L	0.06071	-0.0319	mg/L	0.06071	190.35%
Cd 228.802†	-2.0	0.00004	mg/L	0.000074	0.00004	mg/L	0.000074	210.42%
Co 228.616†	5.1	0.00040	mg/L	0.000241	0.00040	mg/L	0.000241	60.32%
Cr 267.716†	35.5	-0.00017	mg/L	0.000080	-0.00017	mg/L	0.000080	48.28%
Cu 327.393†	26.8	-0.00011	mg/L	0.000201	-0.00011	mg/L	0.000201	177.36%
Fe 239.562†	1.7	-0.00019	mg/L	0.003685	-0.00019	mg/L	0.003685	>999.9%
Mg 279.077†	-11.3	-0.0175	mg/L	0.00422	-0.0175	mg/L	0.00422	24.18%
Mn 257.610†	14.0	-0.00022	mg/L	0.000009	-0.00022	mg/L	0.000009	4.21%
Mo 202.031†	-7.4	-0.00049	mg/L	0.000229	-0.00049	mg/L	0.000229	47.18%
Ni 231.604†	-4.1	-0.00006	mg/L	0.000075	-0.00006	mg/L	0.000075	122.68%
Pb 220.353†	-5.0	-0.00082	mg/L	0.000471	-0.00082	mg/L	0.000471	57.27%
Sb 206.836†	-0.9	0.00059	mg/L	0.001153	0.00059	mg/L	0.001153	196.38%
Se 196.026†	2.4	-0.00082	mg/L	0.000238	-0.00082	mg/L	0.000238	29.20%
Si 251.611†	1987.2	0.0576	mg/L	0.00056	0.0576	mg/L	0.00056	0.97%
Sn 189.927†	1.2	-0.00064	mg/L	0.000455	-0.00064	mg/L	0.000455	71.32%
Ti 334.940†	76.7	0.00007	mg/L	0.000192	0.00007	mg/L	0.000192	282.21%
Tl 190.801†	-3.3	-0.00152	mg/L	0.001689	-0.00152	mg/L	0.001689	110.98%
V 290.880†	-317.9	-0.00090	mg/L	0.000937	-0.00090	mg/L	0.000937	104.51%
Zn 206.200†	51.0	0.00119	mg/L	0.000109	0.00119	mg/L	0.000109	9.09%
K 766.490†	-11.3	0.0137	mg/L	0.02764	0.0137	mg/L	0.02764	201.84%
Na 589.592†	3451.4	0.252	mg/L	0.0035	0.252	mg/L	0.0035	1.39%
Sr 407.771†	64.0	-0.00021	mg/L	0.000078	-0.00021	mg/L	0.000078	36.68%
Li 670.784†	-95.2	-0.00024	mg/L	0.001171	-0.00024	mg/L	0.001171	486.95%

Sequence No.: 17 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/18/2011 5:37:46 PM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4845134.8						31973.17	0.66%
YRADIAL	300696.1						1671.21	0.56%
Ga 417.206	1299122.2						16764.31	1.29%
GaRADIAL	65301.7						944.38	1.45%
Ag 328.068†	81479.7	0.406	mg/L	0.0059	0.406	mg/L	0.0059	1.46%
QC value within limits for Ag 328.068 Recovery = 101.51%								
Al 396.153†	51515.7	10.3	mg/L	0.04	10.3	mg/L	0.04	0.42%
QC value within limits for Al 396.153 Recovery = 103.06%								
As 188.979†	453.6	0.411	mg/L	0.0110	0.411	mg/L	0.0110	2.68%
QC value within limits for As 188.979 Recovery = 102.85%								
Ba 233.527†	56787.7	0.964	mg/L	0.0140	0.964	mg/L	0.0140	1.45%
QC value within limits for Ba 233.527 Recovery = 96.36%								
Be 234.861†	30215.9	0.0521	mg/L	0.00061	0.0521	mg/L	0.00061	1.17%
QC value within limits for Be 234.861 Recovery = 104.27%								
B 249.677†	27219.1	0.521	mg/L	0.0085	0.521	mg/L	0.0085	1.62%
QC value within limits for B 249.677 Recovery = 104.27%								
Ca 227.546†	1075.5	10.4	mg/L	0.17	10.4	mg/L	0.17	1.63%
QC value within limits for Ca 227.546 Recovery = 103.94%								
Cd 228.802†	908.5	0.0499	mg/L	0.00087	0.0499	mg/L	0.00087	1.74%
QC value within limits for Cd 228.802 Recovery = 99.76%								
Co 228.616†	3714.0	0.188	mg/L	0.0012	0.188	mg/L	0.0012	0.62%
QC value within limits for Co 228.616 Recovery = 94.11%								
Cr 267.716†	54155.2	0.478	mg/L	0.0066	0.478	mg/L	0.0066	1.37%
QC value within limits for Cr 267.716 Recovery = 95.67%								
Cu 327.393†	73650.2	0.512	mg/L	0.0098	0.512	mg/L	0.0098	1.91%
QC value within limits for Cu 327.393 Recovery = 102.47%								
Fe 239.562†	1718.6	3.72	mg/L	0.026	3.72	mg/L	0.026	0.71%
QC value within limits for Fe 239.562 Recovery = 93.03%								
Mg 279.077†	7715.1	9.39	mg/L	0.033	9.39	mg/L	0.033	0.35%
QC value within limits for Mg 279.077 Recovery = 93.92%								
Mn 257.610†	213644.8	0.486	mg/L	0.0074	0.486	mg/L	0.0074	1.53%
QC value within limits for Mn 257.610 Recovery = 97.23%								
Mo 202.031†	12872.7	0.963	mg/L	0.0132	0.963	mg/L	0.0132	1.37%
QC value within limits for Mo 202.031 Recovery = 96.28%								
Ni 231.604†	16429.8	0.478	mg/L	0.0065	0.478	mg/L	0.0065	1.36%
QC value within limits for Ni 231.604 Recovery = 95.63%								
Pb 220.353†	2856.4	0.487	mg/L	0.0030	0.487	mg/L	0.0030	0.61%
QC value within limits for Pb 220.353 Recovery = 97.43%								
Sb 206.836†	1969.1	1.27	mg/L	0.017	1.27	mg/L	0.017	1.34%
QC value within limits for Sb 206.836 Recovery = 105.49%								
Se 196.026†	576.5	0.413	mg/L	0.0053	0.413	mg/L	0.0053	1.27%
QC value within limits for Se 196.026 Recovery = 103.23%								
Si 251.611†	175741.1	5.13	mg/L	0.081	5.13	mg/L	0.081	1.59%
QC value within limits for Si 251.611 Recovery = 102.52%								
Sn 189.927†	5604.9	0.967	mg/L	0.0062	0.967	mg/L	0.0062	0.64%
QC value within limits for Sn 189.927 Recovery = 96.65%								
Ti 334.940†	693101.4	0.953	mg/L	0.0045	0.953	mg/L	0.0045	0.47%
QC value within limits for Ti 334.940 Recovery = 95.30%								
Tl 190.801†	816.8	0.494	mg/L	0.0020	0.494	mg/L	0.0020	0.41%
QC value within limits for Tl 190.801 Recovery = 98.87%								
V 290.880†	141547.5	0.948	mg/L	0.0157	0.948	mg/L	0.0157	1.65%
QC value within limits for V 290.880 Recovery = 94.81%								
Zn 206.200†	31906.0	0.968	mg/L	0.0079	0.968	mg/L	0.0079	0.82%
QC value within limits for Zn 206.200 Recovery = 96.80%								
K 766.490†	130889.8	50.3	mg/L	0.12	50.3	mg/L	0.12	0.24%
QC value within limits for K 766.490 Recovery = 100.57%								
Na 589.592†	683371.2	50.6	mg/L	0.60	50.6	mg/L	0.60	1.19%
QC value within limits for Na 589.592 Recovery = 101.19%								
Sr 407.771†	943498.1	0.924	mg/L	0.0859	0.924	mg/L	0.0859	9.30%
QC value within limits for Sr 407.771 Recovery = 92.38%								

Li 670.784† 80887.5 1.01 mg/L 0.004 1.01 mg/L 0.004 0.40%
QC value within limits for Li 670.784 Recovery = 100.83%
All analyte(s) passed QC.

Sequence No.: 18 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/18/2011 5:44:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4995189.2						30528.41	0.61%
YRADIAL	313093.1						6817.75	2.18%
Ga 417.206	1315240.8						9516.04	0.72%
GaRADIAL	67388.5						2097.74	3.11%
Ag 328.068†	-111.5	-0.00012	mg/L	0.000424	-0.00012	mg/L	0.000424	343.06%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	17.6	-0.00347	mg/L	0.014513	-0.00347	mg/L	0.014513	418.77%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.2	-0.00196	mg/L	0.001713	-0.00196	mg/L	0.001713	87.46%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	11.7	0.00001	mg/L	0.000029	0.00001	mg/L	0.000029	573.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-45.7	-0.00008	mg/L	0.000022	-0.00008	mg/L	0.000022	26.54%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	422.5	0.00965	mg/L	0.000543	0.00965	mg/L	0.000543	5.62%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	0.0	-0.0523	mg/L	0.04681	-0.0523	mg/L	0.04681	89.45%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	1.2	0.00022	mg/L	0.000140	0.00022	mg/L	0.000140	62.65%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-1.0	0.00009	mg/L	0.000248	0.00009	mg/L	0.000248	285.20%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	8.6	-0.00040	mg/L	0.000031	-0.00040	mg/L	0.000031	7.75%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-12.6	-0.00039	mg/L	0.000485	-0.00039	mg/L	0.000485	125.61%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.1	-0.00371	mg/L	0.002791	-0.00371	mg/L	0.002791	75.20%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-2.8	-0.00717	mg/L	0.004361	-0.00717	mg/L	0.004361	60.81%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	27.9	-0.00021	mg/L	0.000008	-0.00021	mg/L	0.000008	4.00%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	2.0	0.00021	mg/L	0.000235	0.00021	mg/L	0.000235	110.76%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-2.4	-0.00001	mg/L	0.000077	-0.00001	mg/L	0.000077	556.22%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	1.8	0.00032	mg/L	0.000220	0.00032	mg/L	0.000220	69.18%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	0.5	0.00147	mg/L	0.000524	0.00147	mg/L	0.000524	35.65%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-1.6	-0.00368	mg/L	0.001668	-0.00368	mg/L	0.001668	45.35%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	69.4	0.00154	mg/L	0.000210	0.00154	mg/L	0.000210	13.67%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-1.0	-0.00101	mg/L	0.000481	-0.00101	mg/L	0.000481	47.40%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	195.3	0.00023	mg/L	0.000085	0.00023	mg/L	0.000085	36.92%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-3.6	-0.00168	mg/L	0.001857	-0.00168	mg/L	0.001857	110.49%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-193.8	-0.00007	mg/L	0.000348	-0.00007	mg/L	0.000348	522.43%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	7.8	-0.00012	mg/L	0.000061	-0.00012	mg/L	0.000061	52.97%

QC value within limits for Zn 206.200 Recovery = Not calculated
K 766.490† 82.1 0.0493 mg/L 0.00480 0.0493 mg/L 0.00480 9.74%
QC value within limits for K 766.490 Recovery = Not calculated
Na 589.592† -531.5 -0.0352 mg/L 0.00876 -0.0352 mg/L 0.00876 24.87%
QC value within limits for Na 589.592 Recovery = Not calculated
Sr 407.771† 149.3 -0.00013 mg/L 0.000100 -0.00013 mg/L 0.000100 76.90%
QC value within limits for Sr 407.771 Recovery = Not calculated
Li 670.784† -148.7 -0.00091 mg/L 0.000041 -0.00091 mg/L 0.000041 4.56%
QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 19 **Autosampler Location: 66**
Sample ID: PBW 92 WG356762-02 **Date Collected: 2/18/2011 5:51:04 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 92 WG356762-02

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: PBW 92 WG356762-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5098454.1						48806.82	0.96%
YRADIAL	311270.8						3247.30	1.04%
Ga 417.206	1374680.4						4426.41	0.32%
GaRADIAL	67196.1						1276.54	1.90%
Ag 328.068†	-248.8	-0.00081	mg/L	0.000417	-0.00081	mg/L	0.000417	51.79%
Al 396.153†	4.5	-0.00608	mg/L	0.001909	-0.00608	mg/L	0.001909	31.42%
As 188.979†	-2.4	-0.00213	mg/L	0.003263	-0.00213	mg/L	0.003263	153.14%
Ba 233.527†	2.2	-0.00016	mg/L	0.000089	-0.00016	mg/L	0.000089	57.30%
Be 234.861†	-32.1	-0.00006	mg/L	0.000032	-0.00006	mg/L	0.000032	50.74%
B 249.677†	367.4	0.00862	mg/L	0.000282	0.00862	mg/L	0.000282	3.27%
Ca 227.546†	-1.2	-0.0638	mg/L	0.08564	-0.0638	mg/L	0.08564	134.14%
Cd 228.802†	0.7	0.00020	mg/L	0.000255	0.00020	mg/L	0.000255	128.71%
Co 228.616†	-1.7	0.00005	mg/L	0.000209	0.00005	mg/L	0.000209	408.92%
Cr 267.716†	13.1	-0.00036	mg/L	0.000070	-0.00036	mg/L	0.000070	19.26%
Cu 327.393†	35.6	-0.00005	mg/L	0.001379	-0.00005	mg/L	0.001379	>999.9%
Fe 239.562†	1.0	-0.00179	mg/L	0.003221	-0.00179	mg/L	0.003221	179.74%
Mg 279.077†	-5.9	-0.0109	mg/L	0.00448	-0.0109	mg/L	0.00448	41.14%
Mn 257.610†	26.2	-0.00021	mg/L	0.000012	-0.00021	mg/L	0.000012	5.56%
Mo 202.031†	-4.2	-0.00025	mg/L	0.000326	-0.00025	mg/L	0.000326	129.88%
Ni 231.604†	-0.4	0.00004	mg/L	0.000307	0.00004	mg/L	0.000307	693.61%
Pb 220.353†	0.2	0.00005	mg/L	0.000625	0.00005	mg/L	0.000625	>999.9%
Sb 206.836†	-2.7	-0.00055	mg/L	0.000767	-0.00055	mg/L	0.000767	140.25%
Se 196.026†	2.6	-0.00072	mg/L	0.004056	-0.00072	mg/L	0.004056	564.35%
Si 251.611†	165.8	0.00436	mg/L	0.000276	0.00436	mg/L	0.000276	6.34%
Sn 189.927†	2.0	-0.00051	mg/L	0.001099	-0.00051	mg/L	0.001099	215.69%
Ti 334.940†	170.8	0.00020	mg/L	0.000042	0.00020	mg/L	0.000042	21.36%
Tl 190.801†	1.1	0.00113	mg/L	0.002594	0.00113	mg/L	0.002594	230.59%
V 290.880†	-170.6	0.00009	mg/L	0.000638	0.00009	mg/L	0.000638	715.55%
Zn 206.200†	52.8	0.00125	mg/L	0.000134	0.00125	mg/L	0.000134	10.72%
K 766.490†	56.6	0.0397	mg/L	0.02182	0.0397	mg/L	0.02182	54.96%
Na 589.592†	-832.0	-0.0569	mg/L	0.00329	-0.0569	mg/L	0.00329	5.79%
Sr 407.771†	-53.7	-0.00033	mg/L	0.000049	-0.00033	mg/L	0.000049	14.88%
Li 670.784†	-147.9	-0.00090	mg/L	0.001253	-0.00090	mg/L	0.001253	139.83%

Sequence No.: 20 **Autosampler Location: 67**
Sample ID: LCSW 92 WG356762-03 **Date Collected: 2/18/2011 5:57:43 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 92 WG356762-03

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: LCSW 92 WG356762-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4947180.1						35416.21	0.72%
YRADIAL	308758.3						5592.29	1.81%
Ga 417.206	1344428.5						2705.21	0.20%
GaRADIAL	66372.7						2564.62	3.86%
Ag 328.068†	40479.6	0.202	mg/L	0.0020	0.202	mg/L	0.0020	0.99%
Al 396.153†	26445.7	5.29	mg/L	0.031	5.29	mg/L	0.031	0.59%
As 188.979†	220.8	0.200	mg/L	0.0014	0.200	mg/L	0.0014	0.72%
Ba 233.527†	28403.4	0.482	mg/L	0.0057	0.482	mg/L	0.0057	1.19%
Be 234.861†	14847.6	0.0256	mg/L	0.00037	0.0256	mg/L	0.00037	1.43%
B 249.677†	53772.5	1.02	mg/L	0.005	1.02	mg/L	0.005	0.46%
Ca 227.546†	529.7	5.10	mg/L	0.103	5.10	mg/L	0.103	2.03%
Cd 228.802†	447.3	0.0247	mg/L	0.00003	0.0247	mg/L	0.00003	0.14%
Co 228.616†	1876.7	0.0952	mg/L	0.00076	0.0952	mg/L	0.00076	0.80%
Cr 267.716†	27046.3	0.239	mg/L	0.0028	0.239	mg/L	0.0028	1.15%
Cu 327.393†	36479.7	0.254	mg/L	0.0035	0.254	mg/L	0.0035	1.36%
Fe 239.562†	868.7	1.88	mg/L	0.067	1.88	mg/L	0.067	3.58%
Mg 279.077†	3943.0	4.80	mg/L	0.125	4.80	mg/L	0.125	2.61%
Mn 257.610†	108306.3	0.246	mg/L	0.0032	0.246	mg/L	0.0032	1.29%
Mo 202.031†	6439.9	0.482	mg/L	0.0088	0.482	mg/L	0.0088	1.83%
Ni 231.604†	8319.1	0.242	mg/L	0.0039	0.242	mg/L	0.0039	1.61%
Pb 220.353†	1443.4	0.246	mg/L	0.0016	0.246	mg/L	0.0016	0.64%
Sb 206.836†	979.6	0.630	mg/L	0.0032	0.630	mg/L	0.0032	0.51%
Se 196.026†	283.6	0.202	mg/L	0.0034	0.202	mg/L	0.0034	1.69%
Si 251.611†	89884.7	2.62	mg/L	0.013	2.62	mg/L	0.013	0.50%
Sn 189.927†	2928.4	0.505	mg/L	0.0025	0.505	mg/L	0.0025	0.49%
Ti 334.940†	349897.9	0.481	mg/L	0.0034	0.481	mg/L	0.0034	0.71%
Tl 190.801†	416.2	0.252	mg/L	0.0045	0.252	mg/L	0.0045	1.80%
V 290.880†	70677.7	0.474	mg/L	0.0047	0.474	mg/L	0.0047	0.99%
Zn 206.200†	15852.6	0.481	mg/L	0.0069	0.481	mg/L	0.0069	1.43%
K 766.490†	66338.6	25.3	mg/L	0.08	25.3	mg/L	0.08	0.33%
Na 589.592†	348333.1	25.5	mg/L	0.21	25.5	mg/L	0.21	0.82%
Sr 407.771†	476389.4	0.466	mg/L	0.0470	0.466	mg/L	0.0470	10.07%
Li 670.784†	41769.3	0.521	mg/L	0.0049	0.521	mg/L	0.0049	0.94%

Sequence No.: 21 **Autosampler Location: 68**
Sample ID: L1102035901 **Date Collected: 2/18/2011 6:04:22 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102035901

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102035901

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4934551.0						79125.91	1.60%
YRADIAL	305536.7						4230.71	1.38%
Ga 417.206	1379146.4						9669.17	0.70%
GaRADIAL	66990.5						437.89	0.65%
Ag 328.068†	134.6	0.00102	mg/L	0.000851	0.00102	mg/L	0.000851	83.08%
Al 396.153†	200.6	0.0332	mg/L	0.00685	0.0332	mg/L	0.00685	20.62%
As 188.979†	6.7	0.00487	mg/L	0.003555	0.00487	mg/L	0.003555	73.00%
Ba 233.527†	426.5	0.00702	mg/L	0.000092	0.00702	mg/L	0.000092	1.31%
Be 234.861†	13.0	-0.00001	mg/L	0.000016	-0.00001	mg/L	0.000016	109.62%
B 249.677†	2129.7	0.0430	mg/L	0.00039	0.0430	mg/L	0.00039	0.91%
Ca 227.546†	6863.5	64.6	mg/L	0.22	64.6	mg/L	0.22	0.34%
Cd 228.802†	1.8	0.00020	mg/L	0.000163	0.00020	mg/L	0.000163	81.14%
Co 228.616†	-1.5	0.00005	mg/L	0.000261	0.00005	mg/L	0.000261	503.33%
Cr 267.716†	155.9	0.00083	mg/L	0.000142	0.00083	mg/L	0.000142	17.10%
Cu 327.393†	-240.0	-0.00193	mg/L	0.000663	-0.00193	mg/L	0.000663	34.25%
Fe 239.562†	110.8	0.236	mg/L	0.0061	0.236	mg/L	0.0061	2.58%
Mg 279.077†	15139.1	18.4	mg/L	0.18	18.4	mg/L	0.18	0.96%
Mn 257.610†	64965.0	0.147	mg/L	0.0033	0.147	mg/L	0.0033	2.26%
Mo 202.031†	-0.1	0.00010	mg/L	0.000286	0.00010	mg/L	0.000286	292.22%

Ni 231.604†	10.6	0.00033	mg/L	0.000230	0.00033	mg/L	0.000230 69.40%
Pb 220.353†	-24.8	-0.00109	mg/L	0.000431	-0.00109	mg/L	0.000431 39.60%
Sb 206.836†	10.6	0.00792	mg/L	0.000846	0.00792	mg/L	0.000846 10.67%
Se 196.026†	-33.5	-0.0104	mg/L	0.00600	-0.0104	mg/L	0.00600 57.76%
Si 251.611†	215873.6	6.31	mg/L	0.088	6.31	mg/L	0.088 1.39%
Sn 189.927†	2.8	-0.00036	mg/L	0.000301	-0.00036	mg/L	0.000301 82.86%
Ti 334.940†	-119.4	0.00044	mg/L	0.000094	0.00044	mg/L	0.000094 21.13%
Tl 190.801†	94.1	0.0505	mg/L	0.00289	0.0505	mg/L	0.00289 5.72%
V 290.880†	-793.0	-0.00406	mg/L	0.000347	-0.00406	mg/L	0.000347 8.54%
Zn 206.200†	191.9	0.00546	mg/L	0.000196	0.00546	mg/L	0.000196 3.58%
K 766.490†	3906.2	1.48	mg/L	0.021	1.48	mg/L	0.021 1.39%
Na 589.592†	186883.0	13.6	mg/L	0.08	13.6	mg/L	0.08 0.58%
Sr 407.771†	187787.3	0.184	mg/L	0.0157	0.184	mg/L	0.0157 8.57%
Li 670.784†	-74.3	0.00002	mg/L	0.001673	0.00002	mg/L	0.001673 >999.9%

Sequence No.: 22 **Autosampler Location: 69**
Sample ID: L1102036001 **Date Collected: 2/18/2011 6:11:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102036001

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102036001

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4848354.3						35745.00	0.74%
YRADIAL	304801.7						3304.89	1.08%
Ga 417.206	1379295.9						11803.70	0.86%
GaRADIAL	66877.0						861.70	1.29%
Ag 328.068†	131.3	0.00097	mg/L	0.000667	0.00097	mg/L	0.000667	68.41%
Al 396.153†	699.7	0.133	mg/L	0.0115	0.133	mg/L	0.0115	8.64%
As 188.979†	5.4	0.00386	mg/L	0.001156	0.00386	mg/L	0.001156	29.92%
Ba 233.527†	1235.3	0.0207	mg/L	0.00013	0.0207	mg/L	0.00013	0.65%
Be 234.861†	101.0	0.00001	mg/L	0.000012	0.00001	mg/L	0.000012	90.25%
B 249.677†	1410.1	0.0322	mg/L	0.00040	0.0322	mg/L	0.00040	1.24%
Ca 227.546†	6589.6	62.0	mg/L	0.57	62.0	mg/L	0.57	0.92%
Cd 228.802†	-2.3	-0.00002	mg/L	0.000251	-0.00002	mg/L	0.000251	>999.9%
Co 228.616†	-0.0	0.00010	mg/L	0.000345	0.00010	mg/L	0.000345	343.29%
Cr 267.716†	87.3	0.00021	mg/L	0.000061	0.00021	mg/L	0.000061	28.76%
Cu 327.393†	-236.5	-0.00183	mg/L	0.000230	-0.00183	mg/L	0.000230	12.57%
Fe 239.562†	400.4	0.864	mg/L	0.0121	0.864	mg/L	0.0121	1.40%
Mg 279.077†	8428.0	10.3	mg/L	0.09	10.3	mg/L	0.09	0.89%
Mn 257.610†	79577.8	0.180	mg/L	0.0022	0.180	mg/L	0.0022	1.22%
Mo 202.031†	3.2	0.00039	mg/L	0.000415	0.00039	mg/L	0.000415	107.49%
Ni 231.604†	2.0	0.00008	mg/L	0.000286	0.00008	mg/L	0.000286	353.28%
Pb 220.353†	-10.5	0.00117	mg/L	0.000980	0.00117	mg/L	0.000980	83.75%
Sb 206.836†	11.6	0.00860	mg/L	0.002922	0.00860	mg/L	0.002922	33.99%
Se 196.026†	-32.9	-0.0103	mg/L	0.00305	-0.0103	mg/L	0.00305	29.51%
Si 251.611†	143178.2	4.19	mg/L	0.060	4.19	mg/L	0.060	1.42%
Sn 189.927†	4.5	-0.00007	mg/L	0.000964	-0.00007	mg/L	0.000964	>999.9%
Ti 334.940†	2773.8	0.00440	mg/L	0.000405	0.00440	mg/L	0.000405	9.22%
Tl 190.801†	90.7	0.0488	mg/L	0.00280	0.0488	mg/L	0.00280	5.73%
V 290.880†	-545.6	-0.00236	mg/L	0.000679	-0.00236	mg/L	0.000679	28.81%
Zn 206.200†	238.4	0.00685	mg/L	0.000198	0.00685	mg/L	0.000198	2.89%
K 766.490†	6345.2	2.41	mg/L	0.024	2.41	mg/L	0.024	1.01%
Na 589.592†	87813.7	6.36	mg/L	0.032	6.36	mg/L	0.032	0.50%
Sr 407.771†	186155.7	0.182	mg/L	0.0150	0.182	mg/L	0.0150	8.22%
Li 670.784†	-121.7	-0.00057	mg/L	0.001814	-0.00057	mg/L	0.001814	318.25%

Sequence No.: 23 **Autosampler Location: 70**
Sample ID: L1102036001PS WG356823-01 **Date Collected: 2/18/2011 6:17:41 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102036001PS WG356823-01

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102036001PS WG356823-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4863601.8						51943.91	1.07%
YRADIAL	310793.8						2106.00	0.68%
Ga 417.206	1332201.0						21553.15	1.62%
GaRADIAL	66827.5						1306.12	1.95%
Ag 328.068†	40929.6	0.204	mg/L	0.0040	0.204	mg/L	0.0040	1.96%
Al 396.153†	26790.0	5.36	mg/L	0.032	5.36	mg/L	0.032	0.60%
As 188.979†	225.5	0.203	mg/L	0.0016	0.203	mg/L	0.0016	0.79%
Ba 233.527†	29268.9	0.497	mg/L	0.0061	0.497	mg/L	0.0061	1.23%
Be 234.861†	15288.0	0.0263	mg/L	0.00043	0.0263	mg/L	0.00043	1.62%
B 249.677†	56254.0	1.07	mg/L	0.021	1.07	mg/L	0.021	2.00%
Ca 227.546†	6712.9	63.3	mg/L	0.83	63.3	mg/L	0.83	1.31%
Cd 228.802†	437.8	0.0241	mg/L	0.00023	0.0241	mg/L	0.00023	0.93%
Co 228.616†	1834.3	0.0930	mg/L	0.00090	0.0930	mg/L	0.00090	0.97%
Cr 267.716†	27286.5	0.241	mg/L	0.0026	0.241	mg/L	0.0026	1.07%
Cu 327.393†	36561.5	0.254	mg/L	0.0061	0.254	mg/L	0.0061	2.39%
Fe 239.562†	1210.1	2.62	mg/L	0.040	2.62	mg/L	0.040	1.53%
Mg 279.077†	11222.3	13.7	mg/L	0.14	13.7	mg/L	0.14	1.00%
Mn 257.610†	179110.8	0.407	mg/L	0.0053	0.407	mg/L	0.0053	1.31%
Mo 202.031†	6560.0	0.491	mg/L	0.0041	0.491	mg/L	0.0041	0.84%
Ni 231.604†	8103.4	0.236	mg/L	0.0020	0.236	mg/L	0.0020	0.86%
Pb 220.353†	1398.0	0.241	mg/L	0.0006	0.241	mg/L	0.0006	0.25%
Sb 206.836†	989.7	0.637	mg/L	0.0112	0.637	mg/L	0.0112	1.75%
Se 196.026†	261.4	0.201	mg/L	0.0022	0.201	mg/L	0.0022	1.09%
Si 251.611†	226231.3	6.61	mg/L	0.119	6.61	mg/L	0.119	1.80%
Sn 189.927†	3036.7	0.523	mg/L	0.0051	0.523	mg/L	0.0051	0.98%
Ti 334.940†	352802.6	0.486	mg/L	0.0017	0.486	mg/L	0.0017	0.35%
Tl 190.801†	491.6	0.292	mg/L	0.0093	0.292	mg/L	0.0093	3.20%
V 290.880†	71890.2	0.482	mg/L	0.0063	0.482	mg/L	0.0063	1.31%
Zn 206.200†	15685.2	0.476	mg/L	0.0042	0.476	mg/L	0.0042	0.88%
K 766.490†	71917.7	27.4	mg/L	0.13	27.4	mg/L	0.13	0.47%
Na 589.592†	428308.2	31.4	mg/L	0.38	31.4	mg/L	0.38	1.22%
Sr 407.771†	639351.8	0.626	mg/L	0.0359	0.626	mg/L	0.0359	5.73%
Li 670.784†	41551.9	0.518	mg/L	0.0031	0.518	mg/L	0.0031	0.60%

Sequence No.: 24 **Autosampler Location: 71**
Sample ID: L1102036001DL WG356823-02 **Date Collected: 2/18/2011 6:24:21 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102036001DL WG356823-02

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102036001DL WG356823-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5000886.1						46905.17	0.94%
YRADIAL	316910.5						3391.01	1.07%
Ga 417.206	1379817.0						24575.69	1.78%
GaRADIAL	68630.9						1454.64	2.12%
Ag 328.068†	-75.7	0.00003	mg/L	0.000299	0.00003	mg/L	0.000299	901.40%
Al 396.153†	235.3	0.0402	mg/L	0.01208	0.0402	mg/L	0.01208	30.06%
As 188.979†	2.3	0.00193	mg/L	0.002816	0.00193	mg/L	0.002816	145.90%
Ba 233.527†	249.6	0.00403	mg/L	0.000067	0.00403	mg/L	0.000067	1.66%
Be 234.861†	9.5	-0.00002	mg/L	0.000019	-0.00002	mg/L	0.000019	87.52%
B 249.677†	646.8	0.0147	mg/L	0.00009	0.0147	mg/L	0.00009	0.62%
Ca 227.546†	1285.4	12.1	mg/L	0.24	12.1	mg/L	0.24	2.00%
Cd 228.802†	-1.4	0.00005	mg/L	0.000143	0.00005	mg/L	0.000143	294.15%
Co 228.616†	-1.2	0.00007	mg/L	0.000188	0.00007	mg/L	0.000188	263.21%
Cr 267.716†	17.2	-0.00034	mg/L	0.000188	-0.00034	mg/L	0.000188	54.93%
Cu 327.393†	23.6	-0.00011	mg/L	0.000581	-0.00011	mg/L	0.000581	510.59%

Fe 239.562†	80.6	0.171 mg/L	0.0077	0.171 mg/L	0.0077	4.49%
Mg 279.077†	1670.5	2.03 mg/L	0.033	2.03 mg/L	0.033	1.64%
Mn 257.610†	15862.7	0.0357 mg/L	0.00030	0.0357 mg/L	0.00030	0.85%
Mo 202.031†	-0.8	0.00002 mg/L	0.000404	0.00002 mg/L	0.000404	>999.9%
Ni 231.604†	10.2	0.00034 mg/L	0.000148	0.00034 mg/L	0.000148	42.80%
Pb 220.353†	-6.4	-0.00049 mg/L	0.002030	-0.00049 mg/L	0.002030	415.55%
Sb 206.836†	0.3	0.00133 mg/L	0.002272	0.00133 mg/L	0.002272	170.39%
Se 196.026†	-4.8	-0.00290 mg/L	0.003757	-0.00290 mg/L	0.003757	129.32%
Si 251.611†	28717.9	0.840 mg/L	0.0189	0.840 mg/L	0.0189	2.25%
Sn 189.927†	3.1	-0.00031 mg/L	0.000418	-0.00031 mg/L	0.000418	135.37%
Ti 334.940†	605.2	0.00092 mg/L	0.000233	0.00092 mg/L	0.000233	25.47%
Tl 190.801†	26.5	0.0151 mg/L	0.00351	0.0151 mg/L	0.00351	23.20%
V 290.880†	-203.8	-0.00012 mg/L	0.000851	-0.00012 mg/L	0.000851	704.73%
Zn 206.200†	105.1	0.00283 mg/L	0.000098	0.00283 mg/L	0.000098	3.47%
K 766.490†	1272.3	0.499 mg/L	0.0186	0.499 mg/L	0.0186	3.73%
Na 589.592†	17112.7	1.24 mg/L	0.014	1.24 mg/L	0.014	1.09%
Sr 407.771†	36787.6	0.0357 mg/L	0.00291	0.0357 mg/L	0.00291	8.15%
Li 670.784†	-157.9	-0.00102 mg/L	0.000491	-0.00102 mg/L	0.000491	48.10%

Sequence No.: 25 **Autosampler Location: 72**
Sample ID: L1102036101 **Date Collected: 2/18/2011 6:31:06 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102036101

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102036101

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4769226.1						51241.16	1.07%
YRADIAL	304579.7						5372.17	1.76%
Ga 417.206	1298634.4						15894.47	1.22%
GaRADIAL	66182.3						1216.71	1.84%
Ag 328.068†	108.0	0.00067	mg/L	0.000735	0.00067	mg/L	0.000735	109.89%
Al 396.153†	1855.5	0.365	mg/L	0.0034	0.365	mg/L	0.0034	0.92%
As 188.979†	6.8	0.00531	mg/L	0.004965	0.00531	mg/L	0.004965	93.56%
Ba 233.527†	1719.8	0.0289	mg/L	0.00033	0.0289	mg/L	0.00033	1.13%
Be 234.861†	520.0	0.00008	mg/L	0.000054	0.00008	mg/L	0.000054	67.76%
B 249.677†	1368.1	0.0466	mg/L	0.00060	0.0466	mg/L	0.00060	1.29%
Ca 227.546†	8222.3	77.4	mg/L	0.75	77.4	mg/L	0.75	0.97%
Cd 228.802†	1.0	0.00016	mg/L	0.000037	0.00016	mg/L	0.000037	23.26%
Co 228.616†	19.8	0.00101	mg/L	0.000197	0.00101	mg/L	0.000197	19.56%
Cr 267.716†	226.5	0.00137	mg/L	0.000117	0.00137	mg/L	0.000117	8.57%
Cu 327.393†	-231.7	-0.00141	mg/L	0.000223	-0.00141	mg/L	0.000223	15.85%
Fe 239.562†	1927.1	4.17	mg/L	0.073	4.17	mg/L	0.073	1.75%
Mg 279.077†	10436.2	12.7	mg/L	0.17	12.7	mg/L	0.17	1.38%
Mn 257.610†	156631.6	0.356	mg/L	0.0025	0.356	mg/L	0.0025	0.71%
Mo 202.031†	-3.9	0.00006	mg/L	0.000293	0.00006	mg/L	0.000293	526.66%
Ni 231.604†	75.4	0.00221	mg/L	0.000155	0.00221	mg/L	0.000155	7.00%
Pb 220.353†	-9.5	0.00191	mg/L	0.001092	0.00191	mg/L	0.001092	57.04%
Sb 206.836†	12.7	0.00926	mg/L	0.003192	0.00926	mg/L	0.003192	34.45%
Se 196.026†	-37.5	-0.00873	mg/L	0.002954	-0.00873	mg/L	0.002954	33.82%
Si 251.611†	176801.3	5.17	mg/L	0.070	5.17	mg/L	0.070	1.35%
Sn 189.927†	1.8	-0.00054	mg/L	0.000949	-0.00054	mg/L	0.000949	174.58%
Ti 334.940†	10469.2	0.0151	mg/L	0.00244	0.0151	mg/L	0.00244	16.13%
Tl 190.801†	109.7	0.0591	mg/L	0.00159	0.0591	mg/L	0.00159	2.70%
V 290.880†	-273.6	-0.00028	mg/L	0.000405	-0.00028	mg/L	0.000405	143.54%
Zn 206.200†	726.7	0.0216	mg/L	0.00013	0.0216	mg/L	0.00013	0.61%
K 766.490†	6601.7	2.33	mg/L	0.041	2.33	mg/L	0.041	1.75%
Na 589.592†	2357429.0	188	mg/L	4.5	188	mg/L	4.5	2.38%
Sr 407.771†	219790.9	0.215	mg/L	0.0133	0.215	mg/L	0.0133	6.18%
Li 670.784†	99.6	0.00219	mg/L	0.001023	0.00219	mg/L	0.001023	46.80%

Sequence No.: 26 **Autosampler Location: 73**
Sample ID: L1102039701 WG356762-01 **Date Collected: 2/18/2011 6:37:49 PM**
Analyst: PDM **Data Type: Original**

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102039701 WG356762-01

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102039701 WG356762-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5007238.7						26201.18	0.52%
YRADIAL	317290.6						4951.43	1.56%
Ga 417.206	1387978.1						6871.66	0.50%
GaRADIAL	68903.2						556.99	0.81%
Ag 328.068†	49.5	0.00062	mg/L	0.000606	0.00062	mg/L	0.000606	98.05%
Al 396.153†	158.8	0.0248	mg/L	0.00835	0.0248	mg/L	0.00835	33.67%
As 188.979†	7.6	0.00628	mg/L	0.000555	0.00628	mg/L	0.000555	8.84%
Ba 233.527†	3238.9	0.0546	mg/L	0.00039	0.0546	mg/L	0.00039	0.72%
Be 234.861†	1.3	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	353.58%
B 249.677†	1995.5	0.0395	mg/L	0.00023	0.0395	mg/L	0.00023	0.58%
Ca 227.546†	3806.4	35.8	mg/L	0.28	35.8	mg/L	0.28	0.78%
Cd 228.802†	-1.5	0.00001	mg/L	0.000288	0.00001	mg/L	0.000288	>999.9%
Co 228.616†	-3.2	-0.00004	mg/L	0.000128	-0.00004	mg/L	0.000128	287.82%
Cr 267.716†	502.7	0.00397	mg/L	0.000021	0.00397	mg/L	0.000021	0.54%
Cu 327.393†	-188.7	-0.00160	mg/L	0.000476	-0.00160	mg/L	0.000476	29.76%
Fe 239.562†	15.7	0.0301	mg/L	0.00126	0.0301	mg/L	0.00126	4.18%
Mg 279.077†	3918.2	4.77	mg/L	0.011	4.77	mg/L	0.011	0.23%
Mn 257.610†	1424.9	0.00579	mg/L	0.000004	0.00579	mg/L	0.000004	0.07%
Mo 202.031†	49.6	0.00378	mg/L	0.000280	0.00378	mg/L	0.000280	7.41%
Ni 231.604†	-4.0	-0.00008	mg/L	0.000165	-0.00008	mg/L	0.000165	201.53%
Pb 220.353†	-12.6	-0.00038	mg/L	0.000525	-0.00038	mg/L	0.000525	139.76%
Sb 206.836†	4.3	0.00388	mg/L	0.004820	0.00388	mg/L	0.004820	124.13%
Se 196.026†	-21.7	-0.00916	mg/L	0.007890	-0.00916	mg/L	0.007890	86.15%
Si 251.611†	454447.0	13.3	mg/L	0.03	13.3	mg/L	0.03	0.24%
Sn 189.927†	3.4	-0.00026	mg/L	0.000221	-0.00026	mg/L	0.000221	85.68%
Ti 334.940†	205.7	0.00060	mg/L	0.000320	0.00060	mg/L	0.000320	53.15%
Tl 190.801†	61.9	0.0338	mg/L	0.00450	0.0338	mg/L	0.00450	13.30%
V 290.880†	617.3	0.00536	mg/L	0.000421	0.00536	mg/L	0.000421	7.86%
Zn 206.200†	359.6	0.0106	mg/L	0.00027	0.0106	mg/L	0.00027	2.55%
K 766.490†	5524.6	2.09	mg/L	0.022	2.09	mg/L	0.022	1.05%
Na 589.592†	279274.1	20.4	mg/L	0.05	20.4	mg/L	0.05	0.22%
Sr 407.771†	328007.8	0.321	mg/L	0.0294	0.321	mg/L	0.0294	9.16%
Li 670.784†	1013.4	0.0136	mg/L	0.00125	0.0136	mg/L	0.00125	9.19%

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Sequence No.: 27 **Autosampler Location: 74**
Sample ID: L1102039702S WG356762-04 **Date Collected: 2/18/2011 6:44:32 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102039702S WG356762-04

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102039702S WG356762-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4831995.3						76898.27	1.59%
YRADIAL	311012.7						8445.02	2.72%
Ga 417.206	1322724.9						9540.38	0.72%
GaRADIAL	67514.3						886.30	1.31%
Ag 328.068†	41022.8	0.205	mg/L	0.0027	0.205	mg/L	0.0027	1.30%
Al 396.153†	26102.3	5.22	mg/L	0.028	5.22	mg/L	0.028	0.53%
As 188.979†	232.2	0.210	mg/L	0.0042	0.210	mg/L	0.0042	2.02%
Ba 233.527†	31899.0	0.541	mg/L	0.0084	0.541	mg/L	0.0084	1.56%
Be 234.861†	15102.6	0.0261	mg/L	0.00032	0.0261	mg/L	0.00032	1.23%
B 249.677†	57102.0	1.08	mg/L	0.006	1.08	mg/L	0.006	0.53%
Ca 227.546†	4504.2	42.5	mg/L	0.15	42.5	mg/L	0.15	0.36%

Cd 228.802†	448.2	0.0246 mg/L	0.00015	0.0246 mg/L	0.00015	0.61%
Co 228.616†	1844.9	0.0935 mg/L	0.00142	0.0935 mg/L	0.00142	1.52%
Cr 267.716†	27564.2	0.243 mg/L	0.0037	0.243 mg/L	0.0037	1.53%
Cu 327.393†	36950.7	0.257 mg/L	0.0029	0.257 mg/L	0.0029	1.12%
Fe 239.562†	892.6	1.93 mg/L	0.034	1.93 mg/L	0.034	1.78%
Mg 279.077†	7789.6	9.48 mg/L	0.163	9.48 mg/L	0.163	1.72%
Mn 257.610†	109411.9	0.252 mg/L	0.0039	0.252 mg/L	0.0039	1.53%
Mo 202.031†	6672.6	0.499 mg/L	0.0076	0.499 mg/L	0.0076	1.52%
Ni 231.604†	8190.7	0.238 mg/L	0.0036	0.238 mg/L	0.0036	1.50%
Pb 220.353†	1423.1	0.245 mg/L	0.0043	0.245 mg/L	0.0043	1.75%
Sb 206.836†	999.0	0.643 mg/L	0.0072	0.643 mg/L	0.0072	1.12%
Se 196.026†	264.4	0.197 mg/L	0.0029	0.197 mg/L	0.0029	1.48%
Si 251.611†	553089.2	16.2 mg/L	0.12	16.2 mg/L	0.12	0.74%
Sn 189.927†	2957.8	0.510 mg/L	0.0080	0.510 mg/L	0.0080	1.57%
Ti 334.940†	361493.1	0.497 mg/L	0.0093	0.497 mg/L	0.0093	1.86%
Tl 190.801†	472.0	0.282 mg/L	0.0084	0.282 mg/L	0.0084	2.99%
V 290.880†	73433.3	0.492 mg/L	0.0082	0.492 mg/L	0.0082	1.67%
Zn 206.200†	15856.5	0.481 mg/L	0.0092	0.481 mg/L	0.0092	1.91%
K 766.490†	72161.5	27.5 mg/L	0.12	27.5 mg/L	0.12	0.44%
Na 589.592†	623895.5	46.1 mg/L	0.91	46.1 mg/L	0.91	1.98%
Sr 407.771†	795484.3	0.779 mg/L	0.0724	0.779 mg/L	0.0724	9.30%
Li 670.784†	42451.4	0.530 mg/L	0.0100	0.530 mg/L	0.0100	1.89%

Sequence No.: 28 **Autosampler Location: 75**
Sample ID: L1102039703SD WG356762-05 **Date Collected: 2/18/2011 6:51:17 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102039703SD WG356762-05

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102039703SD WG356762-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4940717.8						33415.57	0.68%
YRADIAL	311398.3						4631.27	1.49%
Ga 417.206	1347827.6						9937.59	0.74%
GaRADIAL	67183.3						1571.60	2.34%
Ag 328.068†	40554.4	0.202	mg/L	0.0009	0.202	mg/L	0.0009	0.45%
Al 396.153†	25895.1	5.18	mg/L	0.026	5.18	mg/L	0.026	0.50%
As 188.979†	229.1	0.207	mg/L	0.0019	0.207	mg/L	0.0019	0.93%
Ba 233.527†	31473.4	0.534	mg/L	0.0036	0.534	mg/L	0.0036	0.68%
Be 234.861†	14983.4	0.0259	mg/L	0.00028	0.0259	mg/L	0.00028	1.08%
B 249.677†	56530.1	1.07	mg/L	0.004	1.07	mg/L	0.004	0.33%
Ca 227.546†	4489.1	42.3	mg/L	0.14	42.3	mg/L	0.14	0.34%
Cd 228.802†	436.9	0.0240	mg/L	0.00043	0.0240	mg/L	0.00043	1.77%
Co 228.616†	1818.2	0.0922	mg/L	0.00031	0.0922	mg/L	0.00031	0.34%
Cr 267.716†	27168.3	0.240	mg/L	0.0026	0.240	mg/L	0.0026	1.06%
Cu 327.393†	36373.5	0.253	mg/L	0.0002	0.253	mg/L	0.0002	0.07%
Fe 239.562†	887.7	1.92	mg/L	0.047	1.92	mg/L	0.047	2.47%
Mg 279.077†	7816.6	9.51	mg/L	0.205	9.51	mg/L	0.205	2.15%
Mn 257.610†	107604.2	0.248	mg/L	0.0017	0.248	mg/L	0.0017	0.70%
Mo 202.031†	6556.8	0.490	mg/L	0.0021	0.490	mg/L	0.0021	0.42%
Ni 231.604†	8045.5	0.234	mg/L	0.0011	0.234	mg/L	0.0011	0.47%
Pb 220.353†	1386.4	0.238	mg/L	0.0022	0.238	mg/L	0.0022	0.92%
Sb 206.836†	988.2	0.636	mg/L	0.0007	0.636	mg/L	0.0007	0.11%
Se 196.026†	266.3	0.199	mg/L	0.0041	0.199	mg/L	0.0041	2.05%
Si 251.611†	555304.3	16.2	mg/L	0.16	16.2	mg/L	0.16	1.00%
Sn 189.927†	2907.1	0.501	mg/L	0.0006	0.501	mg/L	0.0006	0.12%
Ti 334.940†	352153.2	0.485	mg/L	0.0045	0.485	mg/L	0.0045	0.94%
Tl 190.801†	469.7	0.280	mg/L	0.0033	0.280	mg/L	0.0033	1.16%
V 290.880†	72074.5	0.483	mg/L	0.0040	0.483	mg/L	0.0040	0.83%
Zn 206.200†	15611.6	0.473	mg/L	0.0041	0.473	mg/L	0.0041	0.88%
K 766.490†	71267.3	27.2	mg/L	0.17	27.2	mg/L	0.17	0.61%
Na 589.592†	618015.5	45.6	mg/L	0.74	45.6	mg/L	0.74	1.62%
Sr 407.771†	779960.0	0.764	mg/L	0.0559	0.764	mg/L	0.0559	7.32%
Li 670.784†	41991.4	0.524	mg/L	0.0002	0.524	mg/L	0.0002	0.04%

Sequence No.: 29 **Autosampler Location:** 6
Sample ID: CCV **Date Collected:** 2/18/2011 6:58:00 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4863949.9						57273.54	1.18%
YRADIAL	312243.2						8685.43	2.78%
Ga 417.206	1272450.5						25368.53	1.99%
GaRADIAL	65268.7						1150.38	1.76%
Ag 328.068†	82829.6	0.413	mg/L	0.0065	0.413	mg/L	0.0065	1.57%
QC value within limits for Ag 328.068 Recovery = 103.18%								
Al 396.153†	52959.9	10.6	mg/L	0.04	10.6	mg/L	0.04	0.39%
QC value within limits for Al 396.153 Recovery = 105.96%								
As 188.979†	456.8	0.414	mg/L	0.0096	0.414	mg/L	0.0096	2.31%
QC value within limits for As 188.979 Recovery = 103.59%								
Ba 233.527†	56170.7	0.953	mg/L	0.0158	0.953	mg/L	0.0158	1.66%
QC value within limits for Ba 233.527 Recovery = 95.32%								
Be 234.861†	30772.4	0.0531	mg/L	0.00111	0.0531	mg/L	0.00111	2.09%
QC value within limits for Be 234.861 Recovery = 106.12%								
B 249.677†	28018.5	0.536	mg/L	0.0101	0.536	mg/L	0.0101	1.88%
QC value within limits for B 249.677 Recovery = 107.22%								
Ca 227.546†	1105.5	10.7	mg/L	0.23	10.7	mg/L	0.23	2.15%
QC value within limits for Ca 227.546 Recovery = 106.73%								
Cd 228.802†	926.6	0.0508	mg/L	0.00112	0.0508	mg/L	0.00112	2.21%
QC value within limits for Cd 228.802 Recovery = 101.69%								
Co 228.616†	3683.8	0.187	mg/L	0.0025	0.187	mg/L	0.0025	1.34%
QC value within limits for Co 228.616 Recovery = 93.33%								
Cr 267.716†	53598.5	0.473	mg/L	0.0075	0.473	mg/L	0.0075	1.59%
QC value within limits for Cr 267.716 Recovery = 94.68%								
Cu 327.393†	75187.1	0.523	mg/L	0.0084	0.523	mg/L	0.0084	1.61%
QC value within limits for Cu 327.393 Recovery = 104.60%								
Fe 239.562†	1717.8	3.72	mg/L	0.081	3.72	mg/L	0.081	2.18%
QC value within limits for Fe 239.562 Recovery = 92.99%								
Mg 279.077†	7654.0	9.32	mg/L	0.235	9.32	mg/L	0.235	2.52%
QC value within limits for Mg 279.077 Recovery = 93.18%								
Mn 257.610†	211851.4	0.482	mg/L	0.0082	0.482	mg/L	0.0082	1.70%
QC value within limits for Mn 257.610 Recovery = 96.44%								
Mo 202.031†	12690.8	0.949	mg/L	0.0114	0.949	mg/L	0.0114	1.20%
QC value within limits for Mo 202.031 Recovery = 94.92%								
Ni 231.604†	16254.9	0.473	mg/L	0.0082	0.473	mg/L	0.0082	1.72%
QC value within limits for Ni 231.604 Recovery = 94.61%								
Pb 220.353†	2817.0	0.480	mg/L	0.0069	0.480	mg/L	0.0069	1.44%
QC value within limits for Pb 220.353 Recovery = 96.09%								
Sb 206.836†	2004.8	1.29	mg/L	0.023	1.29	mg/L	0.023	1.79%
QC value within limits for Sb 206.836 Recovery = 107.39%								
Se 196.026†	586.6	0.420	mg/L	0.0122	0.420	mg/L	0.0122	2.90%
QC value within limits for Se 196.026 Recovery = 105.05%								
Si 251.611†	178653.4	5.21	mg/L	0.096	5.21	mg/L	0.096	1.84%
QC value within limits for Si 251.611 Recovery = 104.23%								
Sn 189.927†	5539.7	0.955	mg/L	0.0103	0.955	mg/L	0.0103	1.08%
QC value within limits for Sn 189.927 Recovery = 95.53%								
Ti 334.940†	698050.5	0.960	mg/L	0.0028	0.960	mg/L	0.0028	0.29%
QC value within limits for Ti 334.940 Recovery = 95.98%								
Tl 190.801†	811.7	0.491	mg/L	0.0119	0.491	mg/L	0.0119	2.42%
QC value within limits for Tl 190.801 Recovery = 98.28%								
V 290.880†	140558.9	0.941	mg/L	0.0144	0.941	mg/L	0.0144	1.53%
QC value within limits for V 290.880 Recovery = 94.15%								
Zn 206.200†	31353.6	0.951	mg/L	0.0187	0.951	mg/L	0.0187	1.97%
QC value within limits for Zn 206.200 Recovery = 95.12%								
K 766.490†	134064.1	51.5	mg/L	0.22	51.5	mg/L	0.22	0.44%
QC value within limits for K 766.490 Recovery = 103.05%								
Na 589.592†	703937.0	52.2	mg/L	0.56	52.2	mg/L	0.56	1.08%

QC value within limits for Na 589.592 Recovery = 104.32%

Sr 407.771†	920623.2	0.901 mg/L	0.0796	0.901 mg/L	0.0796	8.83%

QC value within limits for Sr 407.771 Recovery = 90.14%

Li 670.784†	84045.2	1.05 mg/L	0.005	1.05 mg/L	0.005	0.49%

QC value within limits for Li 670.784 Recovery = 104.77%

All analyte(s) passed QC.

Sequence No.: 30 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/18/2011 7:04:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5081715.6						53195.68	1.05%
YRADIAL	310274.1						5189.14	1.67%
Ga 417.206	1309897.7						8271.61	0.63%
GaRADIAL	64859.7						522.17	0.81%
Ag 328.068†	-224.2	-0.00068	mg/L	0.000862	-0.00068	mg/L	0.000862	125.84%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-28.8	-0.0128	mg/L	0.01123	-0.0128	mg/L	0.01123	88.06%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.3	-0.00020	mg/L	0.000746	-0.00020	mg/L	0.000746	367.17%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	3.1	-0.00014	mg/L	0.000047	-0.00014	mg/L	0.000047	32.66%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-63.8	-0.00012	mg/L	0.000007	-0.00012	mg/L	0.000007	6.48%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	675.7	0.0144	mg/L	0.00029	0.0144	mg/L	0.00029	2.01%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-5.0	-0.100	mg/L	0.0686	-0.100	mg/L	0.0686	68.40%
QC value less than the lower limit for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	2.8	0.00030	mg/L	0.000199	0.00030	mg/L	0.000199	65.68%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	3.8	0.00033	mg/L	0.000257	0.00033	mg/L	0.000257	76.75%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	6.4	-0.00042	mg/L	0.000126	-0.00042	mg/L	0.000126	29.91%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	53.7	0.00007	mg/L	0.000940	0.00007	mg/L	0.000940	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-0.1	-0.00406	mg/L	0.002877	-0.00406	mg/L	0.002877	70.86%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-2.4	-0.00668	mg/L	0.006230	-0.00668	mg/L	0.006230	93.25%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	37.1	-0.00019	mg/L	0.000016	-0.00019	mg/L	0.000016	8.71%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.8	0.00012	mg/L	0.000487	0.00012	mg/L	0.000487	396.39%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-5.0	-0.00009	mg/L	0.000197	-0.00009	mg/L	0.000197	212.30%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-1.1	-0.00017	mg/L	0.001318	-0.00017	mg/L	0.001318	775.33%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-0.9	0.00060	mg/L	0.001972	0.00060	mg/L	0.001972	328.12%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.7	-0.00210	mg/L	0.003272	-0.00210	mg/L	0.003272	155.83%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	121.3	0.00306	mg/L	0.000415	0.00306	mg/L	0.000415	13.59%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-1.1	-0.00104	mg/L	0.000604	-0.00104	mg/L	0.000604	57.88%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	200.1	0.00024	mg/L	0.000087	0.00024	mg/L	0.000087	36.80%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	5.5	0.00373	mg/L	0.001310	0.00373	mg/L	0.001310	35.14%
QC value within limits for Tl 190.801 Recovery = Not calculated								

V 290.880†	-318.1	-0.00090 mg/L	0.000358	-0.00090 mg/L	0.000358	39.80%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	8.1	-0.00011 mg/L	0.000135	-0.00011 mg/L	0.000135	127.42%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	140.9	0.0716 mg/L	0.03224	0.0716 mg/L	0.03224	45.04%	
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	-346.6	-0.0219 mg/L	0.00520	-0.0219 mg/L	0.00520	23.75%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	129.3	-0.00015 mg/L	0.000032	-0.00015 mg/L	0.000032	21.41%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	-161.5	-0.00107 mg/L	0.000630	-0.00107 mg/L	0.000630	59.16%	
QC value within limits for Li 670.784 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 31 **Autosampler Location: 76**
Sample ID: L1102041201 **Date Collected: 2/18/2011 7:11:17 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041201

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102041201

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5219029.7						60008.49	1.15%
YRADIAL	323649.9						6767.47	2.09%
Ga 417.206	1360364.3						32261.97	2.37%
GaRADIAL	67481.2						2610.40	3.87%
Ag 328.068†	-270.7	-0.00092	mg/L	0.000612	-0.00092	mg/L	0.000612	66.64%
Al 396.153†	338.8	0.0609	mg/L	0.00925	0.0609	mg/L	0.00925	15.18%
As 188.979†	-3.9	-0.00351	mg/L	0.001604	-0.00351	mg/L	0.001604	45.67%
Ba 233.527†	54.5	0.00073	mg/L	0.000015	0.00073	mg/L	0.000015	2.09%
Be 234.861†	-33.8	-0.00007	mg/L	0.000005	-0.00007	mg/L	0.000005	6.11%
B 249.677†	625.7	0.0137	mg/L	0.00066	0.0137	mg/L	0.00066	4.84%
Ca 227.546†	26.1	0.193	mg/L	0.0451	0.193	mg/L	0.0451	23.41%
Cd 228.802†	0.3	0.00018	mg/L	0.000153	0.00018	mg/L	0.000153	84.18%
Co 228.616†	0.8	0.00017	mg/L	0.000096	0.00017	mg/L	0.000096	55.30%
Cr 267.716†	495.1	0.00390	mg/L	0.000040	0.00390	mg/L	0.000040	1.03%
Cu 327.393†	1277.6	0.00857	mg/L	0.000614	0.00857	mg/L	0.000614	7.16%
Fe 239.562†	25.7	0.0518	mg/L	0.00518	0.0518	mg/L	0.00518	10.01%
Mg 279.077†	21.2	0.0220	mg/L	0.00364	0.0220	mg/L	0.00364	16.54%
Mn 257.610†	692.3	0.00132	mg/L	0.000023	0.00132	mg/L	0.000023	1.72%
Mo 202.031†	3.0	0.00029	mg/L	0.000169	0.00029	mg/L	0.000169	58.54%
Ni 231.604†	7.5	0.00027	mg/L	0.000222	0.00027	mg/L	0.000222	81.31%
Pb 220.353†	-0.6	-0.00008	mg/L	0.000178	-0.00008	mg/L	0.000178	218.37%
Sb 206.836†	-0.3	0.00093	mg/L	0.001947	0.00093	mg/L	0.001947	208.36%
Se 196.026†	-3.0	-0.00461	mg/L	0.001847	-0.00461	mg/L	0.001847	40.05%
Si 251.611†	4783.9	0.139	mg/L	0.0020	0.139	mg/L	0.0020	1.41%
Sn 189.927†	1.0	-0.00068	mg/L	0.000142	-0.00068	mg/L	0.000142	20.93%
Ti 334.940†	1697.9	0.00230	mg/L	0.000070	0.00230	mg/L	0.000070	3.06%
Tl 190.801†	0.1	0.00050	mg/L	0.003024	0.00050	mg/L	0.003024	604.12%
V 290.880†	-241.7	-0.00038	mg/L	0.000430	-0.00038	mg/L	0.000430	112.37%
Zn 206.200†	145.8	0.00408	mg/L	0.000198	0.00408	mg/L	0.000198	4.84%
K 766.490†	449.6	0.188	mg/L	0.0413	0.188	mg/L	0.0413	21.95%
Na 589.592†	1533.2	0.114	mg/L	0.0036	0.114	mg/L	0.0036	3.20%
Sr 407.771†	777.4	0.00048	mg/L	0.000115	0.00048	mg/L	0.000115	23.94%
Li 670.784†	-61.4	0.00018	mg/L	0.000608	0.00018	mg/L	0.000608	335.30%

Sequence No.: 32 **Autosampler Location: 77**
Sample ID: L1102041202 **Date Collected: 2/18/2011 7:17:56 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041202

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102041202

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5174387.3						81119.98	1.57%
YRADIAL	324152.6						8042.21	2.48%
Ga 417.206	1337183.4						29346.01	2.19%
GaRADIAL	67307.8						2321.91	3.45%
Ag 328.068†	-122.6	-0.00018	mg/L	0.000146	-0.00018	mg/L	0.000146	80.75%
Al 396.153†	163.5	0.0258	mg/L	0.00671	0.0258	mg/L	0.00671	26.00%
As 188.979†	-0.2	-0.00012	mg/L	0.000860	-0.00012	mg/L	0.000860	735.78%
Ba 233.527†	16.1	0.00008	mg/L	0.000071	0.00008	mg/L	0.000071	90.41%
Be 234.861†	-47.9	-0.00009	mg/L	0.000050	-0.00009	mg/L	0.000050	53.45%
B 249.677†	598.5	0.0131	mg/L	0.00036	0.0131	mg/L	0.00036	2.77%
Ca 227.546†	10.2	0.0432	mg/L	0.03619	0.0432	mg/L	0.03619	83.78%
Cd 228.802†	-2.5	0.00001	mg/L	0.000114	0.00001	mg/L	0.000114	>999.9%
Co 228.616†	4.5	0.00037	mg/L	0.000313	0.00037	mg/L	0.000313	84.89%
Cr 267.716†	254.0	0.00177	mg/L	0.000022	0.00177	mg/L	0.000022	1.23%
Cu 327.393†	644.0	0.00417	mg/L	0.000659	0.00417	mg/L	0.000659	15.81%
Fe 239.562†	12.9	0.0240	mg/L	0.00160	0.0240	mg/L	0.00160	6.66%
Mg 279.077†	6.2	0.00380	mg/L	0.004249	0.00380	mg/L	0.004249	111.95%
Mn 257.610†	358.2	0.00055	mg/L	0.000016	0.00055	mg/L	0.000016	2.95%
Mo 202.031†	-1.2	-0.00002	mg/L	0.000342	-0.00002	mg/L	0.000342	>999.9%
Ni 231.604†	5.8	0.00023	mg/L	0.000201	0.00023	mg/L	0.000201	89.36%
Pb 220.353†	-2.0	-0.00032	mg/L	0.000603	-0.00032	mg/L	0.000603	186.16%
Sb 206.836†	-1.0	0.00052	mg/L	0.001382	0.00052	mg/L	0.001382	265.14%
Se 196.026†	-4.7	-0.00590	mg/L	0.003017	-0.00590	mg/L	0.003017	51.17%
Si 251.611†	2091.3	0.0607	mg/L	0.00288	0.0607	mg/L	0.00288	4.75%
Sn 189.927†	2.6	-0.00040	mg/L	0.000542	-0.00040	mg/L	0.000542	134.88%
Ti 334.940†	734.7	0.00097	mg/L	0.000041	0.00097	mg/L	0.000041	4.23%
Tl 190.801†	1.6	0.00142	mg/L	0.001699	0.00142	mg/L	0.001699	119.48%
V 290.880†	-205.9	-0.00015	mg/L	0.000696	-0.00015	mg/L	0.000696	478.06%
Zn 206.200†	113.3	0.00309	mg/L	0.000112	0.00309	mg/L	0.000112	3.64%
K 766.490†	290.9	0.128	mg/L	0.0222	0.128	mg/L	0.0222	17.30%
Na 589.592†	555.2	0.0432	mg/L	0.00386	0.0432	mg/L	0.00386	8.94%
Sr 407.771†	344.2	0.00006	mg/L	0.000097	0.00006	mg/L	0.000097	166.57%
Li 670.784†	-5.8	0.00087	mg/L	0.002379	0.00087	mg/L	0.002379	272.62%

Sequence No.: 33 **Autosampler Location: 78**
Sample ID: L1102041203 **Date Collected: 2/18/2011 7:24:34 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041203

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102041203

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5232431.6						14098.89	0.27%
YRADIAL	326700.0						4108.44	1.26%
Ga 417.206	1352003.2						9188.03	0.68%
GaRADIAL	67739.6						1441.20	2.13%
Ag 328.068†	-119.1	-0.00016	mg/L	0.000038	-0.00016	mg/L	0.000038	23.03%
Al 396.153†	24.6	-0.00205	mg/L	0.012370	-0.00205	mg/L	0.012370	604.61%
As 188.979†	0.5	0.00054	mg/L	0.001767	0.00054	mg/L	0.001767	326.20%
Ba 233.527†	2.7	-0.00015	mg/L	0.000032	-0.00015	mg/L	0.000032	21.85%
Be 234.861†	-55.6	-0.00010	mg/L	0.000033	-0.00010	mg/L	0.000033	32.03%
B 249.677†	594.3	0.0129	mg/L	0.00167	0.0129	mg/L	0.00167	12.87%
Ca 227.546†	-0.3	-0.0553	mg/L	0.03849	-0.0553	mg/L	0.03849	69.65%
Cd 228.802†	1.2	0.00021	mg/L	0.000206	0.00021	mg/L	0.000206	98.86%
Co 228.616†	-1.3	0.00007	mg/L	0.000133	0.00007	mg/L	0.000133	187.34%
Cr 267.716†	181.4	0.00113	mg/L	0.000140	0.00113	mg/L	0.000140	12.41%
Cu 327.393†	116.3	0.00051	mg/L	0.000639	0.00051	mg/L	0.000639	125.80%
Fe 239.562†	5.0	0.00699	mg/L	0.003092	0.00699	mg/L	0.003092	44.23%

Mg 279.077†	-8.9	-0.0146	mg/L	0.00406	-0.0146	mg/L	0.00406 27.77%
Mn 257.610†	115.3	-0.00001	mg/L	0.000005	-0.00001	mg/L	0.000005 66.06%
Mo 202.031†	-3.7	-0.00021	mg/L	0.000260	-0.00021	mg/L	0.000260 124.90%
Ni 231.604†	-0.1	0.00005	mg/L	0.000344	0.00005	mg/L	0.000344 673.36%
Pb 220.353†	-3.9	-0.00064	mg/L	0.000749	-0.00064	mg/L	0.000749 117.40%
Sb 206.836†	-0.6	0.00073	mg/L	0.002758	0.00073	mg/L	0.002758 375.97%
Se 196.026†	3.0	-0.00040	mg/L	0.002906	-0.00040	mg/L	0.002906 735.71%
Si 251.611†	385.9	0.0108	mg/L	0.00018	0.0108	mg/L	0.00018 1.65%
Sn 189.927†	-1.2	-0.00106	mg/L	0.000979	-0.00106	mg/L	0.000979 92.13%
Ti 334.940†	194.5	0.00023	mg/L	0.000188	0.00023	mg/L	0.000188 81.95%
Tl 190.801†	2.0	0.00162	mg/L	0.001668	0.00162	mg/L	0.001668 103.10%
V 290.880†	-247.4	-0.00042	mg/L	0.000733	-0.00042	mg/L	0.000733 172.61%
Zn 206.200†	65.5	0.00164	mg/L	0.000051	0.00164	mg/L	0.000051 3.14%
K 766.490†	66.9	0.0436	mg/L	0.03585	0.0436	mg/L	0.03585 82.23%
Na 589.592†	-782.2	-0.0533	mg/L	0.00875	-0.0533	mg/L	0.00875 16.40%
Sr 407.771†	64.6	-0.00021	mg/L	0.000085	-0.00021	mg/L	0.000085 39.60%
Li 670.784†	-131.5	-0.00069	mg/L	0.001753	-0.00069	mg/L	0.001753 253.16%

Sequence No.: 34 **Autosampler Location: 79**
Sample ID: L1102041204 **Date Collected: 2/18/2011 7:31:14 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041204

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102041204

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5127416.7						44303.47	0.86%
YRADIAL	325585.5						10487.61	3.22%
Ga 417.206	1333410.0						15561.21	1.17%
GaRADIAL	67114.7						2482.21	3.70%
Ag 328.068†	-248.0	-0.00080	mg/L	0.000547	-0.00080	mg/L	0.000547	68.22%
Al 396.153†	40.0	0.00104	mg/L	0.013054	0.00104	mg/L	0.013054	>999.9%
As 188.979†	-0.1	-0.00009	mg/L	0.002412	-0.00009	mg/L	0.002412	>999.9%
Ba 233.527†	1.2	-0.00017	mg/L	0.000076	-0.00017	mg/L	0.000076	43.76%
Be 234.861†	-56.4	-0.00010	mg/L	0.000035	-0.00010	mg/L	0.000035	33.34%
B 249.677†	569.6	0.0125	mg/L	0.00028	0.0125	mg/L	0.00028	2.24%
Ca 227.546†	-0.4	-0.0568	mg/L	0.05538	-0.0568	mg/L	0.05538	97.54%
Cd 228.802†	-0.1	0.00014	mg/L	0.000174	0.00014	mg/L	0.000174	123.09%
Co 228.616†	1.2	0.00020	mg/L	0.000097	0.00020	mg/L	0.000097	47.88%
Cr 267.716†	73.2	0.00017	mg/L	0.000140	0.00017	mg/L	0.000140	83.09%
Cu 327.393†	-21.6	-0.00045	mg/L	0.001428	-0.00045	mg/L	0.001428	318.85%
Fe 239.562†	3.1	0.00294	mg/L	0.002492	0.00294	mg/L	0.002492	84.71%
Mg 279.077†	-9.6	-0.0154	mg/L	0.00216	-0.0154	mg/L	0.00216	13.97%
Mn 257.610†	212.8	0.00021	mg/L	0.000022	0.00021	mg/L	0.000022	10.49%
Mo 202.031†	-2.2	-0.00010	mg/L	0.000103	-0.00010	mg/L	0.000103	101.97%
Ni 231.604†	4.5	0.00019	mg/L	0.000045	0.00019	mg/L	0.000045	24.13%
Pb 220.353†	-8.8	-0.00148	mg/L	0.000431	-0.00148	mg/L	0.000431	29.18%
Sb 206.836†	-2.6	-0.00048	mg/L	0.001772	-0.00048	mg/L	0.001772	366.28%
Se 196.026†	-3.3	-0.00496	mg/L	0.001294	-0.00496	mg/L	0.001294	26.07%
Si 251.611†	138.8	0.00357	mg/L	0.000101	0.00357	mg/L	0.000101	2.84%
Sn 189.927†	-0.4	-0.00092	mg/L	0.000975	-0.00092	mg/L	0.000975	105.52%
Ti 334.940†	76.3	0.00007	mg/L	0.000109	0.00007	mg/L	0.000109	163.09%
Tl 190.801†	1.5	0.00134	mg/L	0.004339	0.00134	mg/L	0.004339	323.12%
V 290.880†	-213.9	-0.00020	mg/L	0.001180	-0.00020	mg/L	0.001180	587.04%
Zn 206.200†	49.4	0.00115	mg/L	0.000133	0.00115	mg/L	0.000133	11.55%
K 766.490†	-3.2	0.0171	mg/L	0.04090	0.0171	mg/L	0.04090	239.55%
Na 589.592†	-870.4	-0.0597	mg/L	0.01457	-0.0597	mg/L	0.01457	24.40%
Sr 407.771†	28.6	-0.00025	mg/L	0.000082	-0.00025	mg/L	0.000082	32.82%
Li 670.784†	-59.6	0.00020	mg/L	0.002011	0.00020	mg/L	0.002011	991.35%

Sequence No.: 35 **Autosampler Location: 80**
Sample ID: L1102041205 **Date Collected: 2/18/2011 7:37:53 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041205

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102041205

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5235203.2						80583.96	1.54%
YRADIAL	329861.0						3071.34	0.93%
Ga 417.206	1348676.9						15403.32	1.14%
GaRADIAL	67995.6						1779.62	2.62%
Ag 328.068†	-147.3	-0.00031	mg/L	0.000306	-0.00031	mg/L	0.000306	99.78%
Al 396.153†	284.9	0.0501	mg/L	0.01100	0.0501	mg/L	0.01100	21.94%
As 188.979†	-0.4	-0.00029	mg/L	0.002129	-0.00029	mg/L	0.002129	741.25%
Ba 233.527†	43.0	0.00053	mg/L	0.000040	0.00053	mg/L	0.000040	7.46%
Be 234.861†	-52.2	-0.00010	mg/L	0.000020	-0.00010	mg/L	0.000020	19.14%
B 249.677†	607.6	0.0133	mg/L	0.00087	0.0133	mg/L	0.00087	6.59%
Ca 227.546†	28.7	0.219	mg/L	0.0437	0.219	mg/L	0.0437	19.95%
Cd 228.802†	-0.5	0.00012	mg/L	0.000121	0.00012	mg/L	0.000121	100.16%
Co 228.616†	3.8	0.00033	mg/L	0.000349	0.00033	mg/L	0.000349	105.41%
Cr 267.716†	240.4	0.00164	mg/L	0.000103	0.00164	mg/L	0.000103	6.29%
Cu 327.393†	2859.1	0.0195	mg/L	0.00054	0.0195	mg/L	0.00054	2.78%
Fe 239.562†	17.1	0.0332	mg/L	0.00298	0.0332	mg/L	0.00298	8.99%
Mg 279.077†	9.4	0.00769	mg/L	0.004891	0.00769	mg/L	0.004891	63.63%
Mn 257.610†	363.6	0.00057	mg/L	0.000025	0.00057	mg/L	0.000025	4.35%
Mo 202.031†	1.9	0.00021	mg/L	0.000205	0.00021	mg/L	0.000205	99.85%
Ni 231.604†	51.0	0.00154	mg/L	0.000122	0.00154	mg/L	0.000122	7.91%
Pb 220.353†	2.0	0.00035	mg/L	0.000872	0.00035	mg/L	0.000872	249.57%
Sb 206.836†	0.3	0.00133	mg/L	0.000575	0.00133	mg/L	0.000575	43.18%
Se 196.026†	1.4	-0.00146	mg/L	0.002447	-0.00146	mg/L	0.002447	167.33%
Si 251.611†	3312.6	0.0964	mg/L	0.00133	0.0964	mg/L	0.00133	1.38%
Sn 189.927†	2.3	-0.00045	mg/L	0.000831	-0.00045	mg/L	0.000831	186.38%
Ti 334.940†	1017.1	0.00136	mg/L	0.000155	0.00136	mg/L	0.000155	11.35%
Tl 190.801†	5.5	0.00369	mg/L	0.001875	0.00369	mg/L	0.001875	50.83%
V 290.880†	-322.6	-0.00093	mg/L	0.000337	-0.00093	mg/L	0.000337	36.42%
Zn 206.200†	204.2	0.00584	mg/L	0.000197	0.00584	mg/L	0.000197	3.37%
K 766.490†	326.1	0.142	mg/L	0.0306	0.142	mg/L	0.0306	21.63%
Na 589.592†	890.1	0.0673	mg/L	0.00340	0.0673	mg/L	0.00340	5.06%
Sr 407.771†	607.1	0.00031	mg/L	0.000040	0.00031	mg/L	0.000040	12.77%
Li 670.784†	-72.1	0.00005	mg/L	0.001339	0.00005	mg/L	0.001339	>999.9%

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Sequence No.: 36 **Autosampler Location: 81**
Sample ID: L1102041206 **Date Collected: 2/18/2011 7:44:32 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041206

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102041206

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5292837.4						27541.45	0.52%
YRADIAL	329039.0						2487.25	0.76%
Ga 417.206	1356696.8						21953.97	1.62%
GaRADIAL	67465.9						969.37	1.44%
Ag 328.068†	-166.2	-0.00040	mg/L	0.000905	-0.00040	mg/L	0.000905	227.48%
Al 396.153†	49.1	0.00286	mg/L	0.009529	0.00286	mg/L	0.009529	333.15%
As 188.979†	0.6	0.00058	mg/L	0.004542	0.00058	mg/L	0.004542	784.32%
Ba 233.527†	11.1	-0.00001	mg/L	0.000039	-0.00001	mg/L	0.000039	457.14%
Be 234.861†	-46.8	-0.00009	mg/L	0.000038	-0.00009	mg/L	0.000038	42.94%
B 249.677†	485.7	0.0109	mg/L	0.00029	0.0109	mg/L	0.00029	2.71%
Ca 227.546†	8.1	0.0239	mg/L	0.03957	0.0239	mg/L	0.03957	165.42%
Cd 228.802†	-0.5	0.00011	mg/L	0.000113	0.00011	mg/L	0.000113	98.44%

Co 228.616†	-0.2	0.00013 mg/L	0.000288	0.00013 mg/L	0.000288	228.00%
Cr 267.716†	242.8	0.00167 mg/L	0.000078	0.00167 mg/L	0.000078	4.68%
Cu 327.393†	267.0	0.00155 mg/L	0.000312	0.00155 mg/L	0.000312	20.10%
Fe 239.562†	3.5	0.00368 mg/L	0.000974	0.00368 mg/L	0.000974	26.46%
Mg 279.077†	-9.8	-0.0157 mg/L	0.00659	-0.0157 mg/L	0.00659	42.09%
Mn 257.610†	113.3	-0.00001 mg/L	0.000020	-0.00001 mg/L	0.000020	215.03%
Mo 202.031†	-3.7	-0.00021 mg/L	0.000172	-0.00021 mg/L	0.000172	80.34%
Ni 231.604†	-2.9	-0.00003 mg/L	0.000158	-0.00003 mg/L	0.000158	523.71%
Pb 220.353†	-3.4	-0.00055 mg/L	0.000707	-0.00055 mg/L	0.000707	127.72%
Sb 206.836†	-0.5	0.00082 mg/L	0.000885	0.00082 mg/L	0.000885	107.86%
Se 196.026†	6.8	0.00229 mg/L	0.002092	0.00229 mg/L	0.002092	91.38%
Si 251.611†	543.0	0.0154 mg/L	0.00039	0.0154 mg/L	0.00039	2.55%
Sn 189.927†	1.1	-0.00066 mg/L	0.000858	-0.00066 mg/L	0.000858	130.54%
Ti 334.940†	255.1	0.00031 mg/L	0.000078	0.00031 mg/L	0.000078	24.93%
Tl 190.801†	3.4	0.00244 mg/L	0.002471	0.00244 mg/L	0.002471	101.46%
V 290.880†	-377.7	-0.00130 mg/L	0.000439	-0.00130 mg/L	0.000439	33.87%
Zn 206.200†	108.5	0.00294 mg/L	0.000050	0.00294 mg/L	0.000050	1.71%
K 766.490†	151.1	0.0754 mg/L	0.02199	0.0754 mg/L	0.02199	29.16%
Na 589.592†	3.9	0.00339 mg/L	0.007866	0.00339 mg/L	0.007866	232.14%
Sr 407.771†	205.8	-0.00008 mg/L	0.000064	-0.00008 mg/L	0.000064	84.85%
Li 670.784†	-116.6	-0.00051 mg/L	0.000500	-0.00051 mg/L	0.000500	98.62%

Sequence No.: 37 **Autosampler Location: 82**
Sample ID: L1102041207 **Date Collected: 2/18/2011 7:51:12 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041207

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102041207

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5156788.7						60920.46	1.18%
YRADIAL	325672.9						5036.33	1.55%
Ga 417.206	1315870.7						21364.70	1.62%
GaRADIAL	66629.5						632.72	0.95%
Ag 328.068†	-187.4	-0.00050	mg/L	0.000278	-0.00050	mg/L	0.000278	55.34%
Al 396.153†	41.2	0.00128	mg/L	0.005903	0.00128	mg/L	0.005903	462.11%
As 188.979†	-0.6	-0.00051	mg/L	0.002304	-0.00051	mg/L	0.002304	451.55%
Ba 233.527†	3.1	-0.00014	mg/L	0.000066	-0.00014	mg/L	0.000066	46.79%
Be 234.861†	-57.0	-0.00011	mg/L	0.000041	-0.00011	mg/L	0.000041	39.03%
B 249.677†	502.2	0.0112	mg/L	0.00027	0.0112	mg/L	0.00027	2.41%
Ca 227.546†	3.4	-0.0204	mg/L	0.02402	-0.0204	mg/L	0.02402	117.84%
Cd 228.802†	-2.0	0.00003	mg/L	0.000157	0.00003	mg/L	0.000157	451.22%
Co 228.616†	-3.6	-0.00005	mg/L	0.000242	-0.00005	mg/L	0.000242	506.44%
Cr 267.716†	37.0	-0.00015	mg/L	0.000089	-0.00015	mg/L	0.000089	58.51%
Cu 327.393†	-22.2	-0.00045	mg/L	0.000528	-0.00045	mg/L	0.000528	116.78%
Fe 239.562†	2.5	0.00163	mg/L	0.000975	0.00163	mg/L	0.000975	59.93%
Mg 279.077†	-8.2	-0.0137	mg/L	0.00201	-0.0137	mg/L	0.00201	14.72%
Mn 257.610†	4.4	-0.00026	mg/L	0.000026	-0.00026	mg/L	0.000026	9.95%
Mo 202.031†	-4.0	-0.00023	mg/L	0.000203	-0.00023	mg/L	0.000203	87.17%
Ni 231.604†	9.5	0.00033	mg/L	0.000336	0.00033	mg/L	0.000336	100.93%
Pb 220.353†	-4.9	-0.00081	mg/L	0.000476	-0.00081	mg/L	0.000476	59.06%
Sb 206.836†	-3.0	-0.00079	mg/L	0.001563	-0.00079	mg/L	0.001563	198.28%
Se 196.026†	-1.9	-0.00394	mg/L	0.002733	-0.00394	mg/L	0.002733	69.31%
Si 251.611†	168.9	0.00446	mg/L	0.000815	0.00446	mg/L	0.000815	18.30%
Sn 189.927†	-1.2	-0.00106	mg/L	0.000337	-0.00106	mg/L	0.000337	31.80%
Ti 334.940†	124.3	0.00013	mg/L	0.000066	0.00013	mg/L	0.000066	49.84%
Tl 190.801†	-3.1	-0.00138	mg/L	0.000553	-0.00138	mg/L	0.000553	40.03%
V 290.880†	-248.8	-0.00043	mg/L	0.000795	-0.00043	mg/L	0.000795	183.00%
Zn 206.200†	59.5	0.00145	mg/L	0.000085	0.00145	mg/L	0.000085	5.87%
K 766.490†	-1.1	0.0179	mg/L	0.01611	0.0179	mg/L	0.01611	90.13%
Na 589.592†	-868.8	-0.0596	mg/L	0.00210	-0.0596	mg/L	0.00210	3.52%
Sr 407.771†	24.7	-0.00025	mg/L	0.000015	-0.00025	mg/L	0.000015	5.78%
Li 670.784†	-133.9	-0.00072	mg/L	0.000573	-0.00072	mg/L	0.000573	79.37%

Sequence No.: 38 **Autosampler Location: 83**
Sample ID: L1102041208 **Date Collected: 2/18/2011 7:57:50 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041208

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102041208

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5247610.0						20352.79	0.39%
YRADIAL	329584.3						3901.77	1.18%
Ga 417.206	1340514.5						9327.78	0.70%
GaRADIAL	67581.0						1418.76	2.10%
Ag 328.068†	-123.4	-0.00019	mg/L	0.000876	-0.00019	mg/L	0.000876	462.62%
Al 396.153†	295.0	0.0522	mg/L	0.00208	0.0522	mg/L	0.00208	3.99%
As 188.979†	0.6	0.00056	mg/L	0.001988	0.00056	mg/L	0.001988	353.82%
Ba 233.527†	37.4	0.00044	mg/L	0.000082	0.00044	mg/L	0.000082	18.67%
Be 234.861†	-40.1	-0.00009	mg/L	0.000028	-0.00009	mg/L	0.000028	33.17%
B 249.677†	588.9	0.0130	mg/L	0.00022	0.0130	mg/L	0.00022	1.66%
Ca 227.546†	19.4	0.130	mg/L	0.0497	0.130	mg/L	0.0497	38.17%
Cd 228.802†	1.0	0.00020	mg/L	0.000172	0.00020	mg/L	0.000172	87.82%
Co 228.616†	5.1	0.00039	mg/L	0.000127	0.00039	mg/L	0.000127	32.24%
Cr 267.716†	91.0	0.00032	mg/L	0.000108	0.00032	mg/L	0.000108	33.24%
Cu 327.393†	4331.0	0.0298	mg/L	0.00115	0.0298	mg/L	0.00115	3.86%
Fe 239.562†	23.7	0.0474	mg/L	0.00243	0.0474	mg/L	0.00243	5.13%
Mg 279.077†	11.5	0.0102	mg/L	0.00106	0.0102	mg/L	0.00106	10.41%
Mn 257.610†	557.5	0.00102	mg/L	0.000013	0.00102	mg/L	0.000013	1.26%
Mo 202.031†	-0.3	0.00005	mg/L	0.000752	0.00005	mg/L	0.000752	>999.9%
Ni 231.604†	11.1	0.00038	mg/L	0.000194	0.00038	mg/L	0.000194	51.08%
Pb 220.353†	2.1	0.00035	mg/L	0.001492	0.00035	mg/L	0.001492	421.98%
Sb 206.836†	-1.9	-0.00007	mg/L	0.002161	-0.00007	mg/L	0.002161	>999.9%
Se 196.026†	-1.9	-0.00390	mg/L	0.002440	-0.00390	mg/L	0.002440	62.60%
Si 251.611†	3886.9	0.113	mg/L	0.0032	0.113	mg/L	0.0032	2.83%
Sn 189.927†	0.8	-0.00071	mg/L	0.000703	-0.00071	mg/L	0.000703	98.56%
Ti 334.940†	1416.0	0.00191	mg/L	0.000167	0.00191	mg/L	0.000167	8.76%
Tl 190.801†	-0.0	0.00045	mg/L	0.001674	0.00045	mg/L	0.001674	371.09%
V 290.880†	-345.5	-0.00108	mg/L	0.000510	-0.00108	mg/L	0.000510	47.31%
Zn 206.200†	305.5	0.00891	mg/L	0.000174	0.00891	mg/L	0.000174	1.95%
K 766.490†	584.8	0.239	mg/L	0.0317	0.239	mg/L	0.0317	13.26%
Na 589.592†	1868.2	0.138	mg/L	0.0087	0.138	mg/L	0.0087	6.28%
Sr 407.771†	420.0	0.00013	mg/L	0.000073	0.00013	mg/L	0.000073	56.36%
Li 670.784†	-155.5	-0.00099	mg/L	0.000590	-0.00099	mg/L	0.000590	59.54%

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Sequence No.: 39 **Autosampler Location: 84**
Sample ID: L1102041209 **Date Collected: 2/18/2011 8:04:29 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041209

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102041209

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5173966.4						70365.60	1.36%
YRADIAL	327897.3						5272.17	1.61%
Ga 417.206	1337107.4						29212.98	2.18%
GaRADIAL	66494.7						2020.15	3.04%
Ag 328.068†	-104.7	-0.00011	mg/L	0.000262	-0.00011	mg/L	0.000262	246.17%
Al 396.153†	1961.8	0.386	mg/L	0.0149	0.386	mg/L	0.0149	3.86%
As 188.979†	-1.1	-0.00096	mg/L	0.002315	-0.00096	mg/L	0.002315	240.99%
Ba 233.527†	169.6	0.00267	mg/L	0.000047	0.00267	mg/L	0.000047	1.76%

Be 234.861†	-6.3	-0.00008 mg/L	0.000012	-0.00008 mg/L	0.000012	15.84%
B 249.677†	365.3	0.00949 mg/L	0.000531	0.00949 mg/L	0.000531	5.60%
Ca 227.546†	81.2	0.711 mg/L	0.0306	0.711 mg/L	0.0306	4.30%
Cd 228.802†	0.2	0.00017 mg/L	0.000154	0.00017 mg/L	0.000154	93.51%
Co 228.616†	3.5	0.00027 mg/L	0.000111	0.00027 mg/L	0.000111	40.84%
Cr 267.716†	501.5	0.00394 mg/L	0.000144	0.00394 mg/L	0.000144	3.65%
Cu 327.393†	3250.6	0.0223 mg/L	0.00052	0.0223 mg/L	0.00052	2.31%
Fe 239.562†	134.8	0.288 mg/L	0.0038	0.288 mg/L	0.0038	1.32%
Mg 279.077†	117.7	0.139 mg/L	0.0068	0.139 mg/L	0.0068	4.88%
Mn 257.610†	2752.3	0.00612 mg/L	0.000104	0.00612 mg/L	0.000104	1.70%
Mo 202.031†	-0.4	0.00005 mg/L	0.000186	0.00005 mg/L	0.000186	346.79%
Ni 231.604†	16.5	0.00053 mg/L	0.000117	0.00053 mg/L	0.000117	21.93%
Pb 220.353†	8.4	0.00146 mg/L	0.001585	0.00146 mg/L	0.001585	108.49%
Sb 206.836†	-0.7	0.00071 mg/L	0.001902	0.00071 mg/L	0.001902	268.31%
Se 196.026†	2.7	-0.00037 mg/L	0.004685	-0.00037 mg/L	0.004685	>999.9%
Si 251.611†	29687.2	0.868 mg/L	0.0268	0.868 mg/L	0.0268	3.08%
Sn 189.927†	-0.8	-0.00098 mg/L	0.000298	-0.00098 mg/L	0.000298	30.47%
Ti 334.940†	13607.9	0.0187 mg/L	0.00090	0.0187 mg/L	0.00090	4.81%
Tl 190.801†	5.4	0.00379 mg/L	0.001713	0.00379 mg/L	0.001713	45.14%
V 290.880†	-121.1	0.00044 mg/L	0.000512	0.00044 mg/L	0.000512	115.73%
Zn 206.200†	272.8	0.00792 mg/L	0.000086	0.00792 mg/L	0.000086	1.09%
K 766.490†	636.3	0.259 mg/L	0.0076	0.259 mg/L	0.0076	2.95%
Na 589.592†	1548.3	0.115 mg/L	0.0093	0.115 mg/L	0.0093	8.06%
Sr 407.771†	1796.5	0.00145 mg/L	0.000171	0.00145 mg/L	0.000171	11.80%
Li 670.784†	-46.0	0.00037 mg/L	0.000977	0.00037 mg/L	0.000977	261.67%

Sequence No.: 40 **Autosampler Location: 85**
Sample ID: L1102041210 **Date Collected: 2/18/2011 8:11:11 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041210

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102041210

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5214077.6						55723.68	1.07%
YRADIAL	329520.7						3910.22	1.19%
Ga 417.206	1358320.4						26863.02	1.98%
GaRADIAL	66780.3						653.79	0.98%
Ag 328.068†	-163.6	-0.00039	mg/L	0.000724	-0.00039	mg/L	0.000724	186.42%
Al 396.153†	136.2	0.0203	mg/L	0.01504	0.0203	mg/L	0.01504	73.98%
As 188.979†	-0.6	-0.00051	mg/L	0.002644	-0.00051	mg/L	0.002644	522.39%
Ba 233.527†	12.7	0.00002	mg/L	0.000099	0.00002	mg/L	0.000099	494.20%
Be 234.861†	-38.9	-0.00009	mg/L	0.000019	-0.00009	mg/L	0.000019	21.51%
B 249.677†	360.1	0.00875	mg/L	0.000287	0.00875	mg/L	0.000287	3.28%
Ca 227.546†	11.8	0.0587	mg/L	0.07638	0.0587	mg/L	0.07638	130.17%
Cd 228.802†	1.4	0.00023	mg/L	0.000067	0.00023	mg/L	0.000067	29.35%
Co 228.616†	7.7	0.00053	mg/L	0.000261	0.00053	mg/L	0.000261	49.36%
Cr 267.716†	93.6	0.00035	mg/L	0.000044	0.00035	mg/L	0.000044	12.56%
Cu 327.393†	588.3	0.00379	mg/L	0.000349	0.00379	mg/L	0.000349	9.21%
Fe 239.562†	30.9	0.0631	mg/L	0.00201	0.0631	mg/L	0.00201	3.19%
Mg 279.077†	3.3	0.00023	mg/L	0.002240	0.00023	mg/L	0.002240	995.06%
Mn 257.610†	341.5	0.00051	mg/L	0.000017	0.00051	mg/L	0.000017	3.28%
Mo 202.031†	-2.6	-0.00012	mg/L	0.000379	-0.00012	mg/L	0.000379	304.44%
Ni 231.604†	14.1	0.00047	mg/L	0.000105	0.00047	mg/L	0.000105	22.53%
Pb 220.353†	-3.6	-0.00060	mg/L	0.001085	-0.00060	mg/L	0.001085	181.12%
Sb 206.836†	-0.5	0.00082	mg/L	0.002220	0.00082	mg/L	0.002220	271.55%
Se 196.026†	2.5	-0.00075	mg/L	0.004466	-0.00075	mg/L	0.004466	593.14%
Si 251.611†	1305.5	0.0377	mg/L	0.00124	0.0377	mg/L	0.00124	3.28%
Sn 189.927†	3.6	-0.00023	mg/L	0.000387	-0.00023	mg/L	0.000387	170.82%
Ti 334.940†	579.2	0.00076	mg/L	0.000101	0.00076	mg/L	0.000101	13.34%
Tl 190.801†	1.8	0.00150	mg/L	0.001431	0.00150	mg/L	0.001431	95.35%
V 290.880†	-353.1	-0.00113	mg/L	0.000775	-0.00113	mg/L	0.000775	68.70%
Zn 206.200†	76.5	0.00197	mg/L	0.000112	0.00197	mg/L	0.000112	5.68%
K 766.490†	181.7	0.0870	mg/L	0.06790	0.0870	mg/L	0.06790	78.07%
Na 589.592†	364.2	0.0294	mg/L	0.00526	0.0294	mg/L	0.00526	17.90%

Sr 407.771†	331.9	0.00004 mg/L	0.000064	0.00004 mg/L	0.000064	155.38%
Li 670.784†	-95.8	-0.00025 mg/L	0.002388	-0.00025 mg/L	0.002388	963.35%

Sequence No.: 41 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/18/2011 8:17:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4975669.9						63156.97	1.27%
YRADIAL	319185.3						821.40	0.26%
Ga 417.206	1251173.6						22768.66	1.82%
GaRADIAL	64640.0						1272.09	1.97%
Ag 328.068†	85204.6	0.425	mg/L	0.0100	0.425	mg/L	0.0100	2.36%
QC value within limits for Ag 328.068 Recovery = 106.13%								
Al 396.153†	54000.8	10.8	mg/L	0.06	10.8	mg/L	0.06	0.53%
QC value within limits for Al 396.153 Recovery = 108.05%								
As 188.979†	475.5	0.431	mg/L	0.0114	0.431	mg/L	0.0114	2.65%
QC value within limits for As 188.979 Recovery = 107.87%								
Ba 233.527†	55202.4	0.937	mg/L	0.0186	0.937	mg/L	0.0186	1.99%
QC value within limits for Ba 233.527 Recovery = 93.67%								
Be 234.861†	31608.0	0.0545	mg/L	0.00107	0.0545	mg/L	0.00107	1.96%
QC value within limits for Be 234.861 Recovery = 108.93%								
B 249.677†	28300.0	0.541	mg/L	0.0122	0.541	mg/L	0.0122	2.25%
QC value within limits for B 249.677 Recovery = 108.18%								
Ca 227.546†	1119.2	10.8	mg/L	0.22	10.8	mg/L	0.22	2.04%
QC value within limits for Ca 227.546 Recovery = 107.95%								
Cd 228.802†	944.0	0.0517	mg/L	0.00071	0.0517	mg/L	0.00071	1.37%
QC value within limits for Cd 228.802 Recovery = 103.33%								
Co 228.616†	3630.1	0.184	mg/L	0.0026	0.184	mg/L	0.0026	1.39%
QC value within limits for Co 228.616 Recovery = 91.97%								
Cr 267.716†	52699.3	0.465	mg/L	0.0102	0.465	mg/L	0.0102	2.18%
QC value within limits for Cr 267.716 Recovery = 93.09%								
Cu 327.393†	77245.7	0.537	mg/L	0.0123	0.537	mg/L	0.0123	2.29%
QC value within limits for Cu 327.393 Recovery = 107.45%								
Fe 239.562†	1695.2	3.67	mg/L	0.038	3.67	mg/L	0.038	1.04%
QC value within limits for Fe 239.562 Recovery = 91.77%								
Mg 279.077†	7563.4	9.21	mg/L	0.042	9.21	mg/L	0.042	0.46%
QC value within limits for Mg 279.077 Recovery = 92.08%								
Mn 257.610†	208482.5	0.475	mg/L	0.0109	0.475	mg/L	0.0109	2.29%
QC value within limits for Mn 257.610 Recovery = 94.92%								
Mo 202.031†	12501.3	0.935	mg/L	0.0201	0.935	mg/L	0.0201	2.15%
QC value within limits for Mo 202.031 Recovery = 93.50%								
Ni 231.604†	15978.6	0.465	mg/L	0.0095	0.465	mg/L	0.0095	2.05%
QC value within limits for Ni 231.604 Recovery = 93.01%								
Pb 220.353†	2782.1	0.475	mg/L	0.0066	0.475	mg/L	0.0066	1.39%
QC value within limits for Pb 220.353 Recovery = 94.90%								
Sb 206.836†	2059.4	1.32	mg/L	0.018	1.32	mg/L	0.018	1.38%
QC value greater than the upper limit for Sb 206.836 Recovery = 110.30%								
Se 196.026†	602.2	0.431	mg/L	0.0062	0.431	mg/L	0.0062	1.44%
QC value within limits for Se 196.026 Recovery = 107.85%								
Si 251.611†	183308.7	5.35	mg/L	0.120	5.35	mg/L	0.120	2.25%
QC value within limits for Si 251.611 Recovery = 106.95%								
Sn 189.927†	5438.5	0.938	mg/L	0.0133	0.938	mg/L	0.0133	1.42%
QC value within limits for Sn 189.927 Recovery = 93.78%								
Ti 334.940†	689066.9	0.947	mg/L	0.0035	0.947	mg/L	0.0035	0.37%
QC value within limits for Ti 334.940 Recovery = 94.74%								
Tl 190.801†	799.1	0.484	mg/L	0.0108	0.484	mg/L	0.0108	2.23%
QC value within limits for Tl 190.801 Recovery = 96.75%								
V 290.880†	138291.7	0.926	mg/L	0.0235	0.926	mg/L	0.0235	2.54%
QC value within limits for V 290.880 Recovery = 92.63%								
Zn 206.200†	30812.2	0.935	mg/L	0.0179	0.935	mg/L	0.0179	1.92%
QC value within limits for Zn 206.200 Recovery = 93.48%								

K 766.490† 135876.8 52.2 mg/L 0.38 52.2 mg/L 0.38 0.73%
QC value within limits for K 766.490 Recovery = 104.46%
Na 589.592† 714505.2 53.0 mg/L 0.53 53.0 mg/L 0.53 1.00%
QC value within limits for Na 589.592 Recovery = 105.93%
Sr 407.771† 858244.8 0.840 mg/L 0.0817 0.840 mg/L 0.0817 9.72%
QC value less than the lower limit for Sr 407.771 Recovery = 84.02%
Li 670.784† 85242.7 1.06 mg/L 0.003 1.06 mg/L 0.003 0.29%
QC value within limits for Li 670.784 Recovery = 106.26%
QC Failed. Continue with analysis.

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Sequence No.: 42 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/18/2011 8:24:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5122569.7						68771.73	1.34%
YRADIAL	322872.5						6192.84	1.92%
Ga 417.206	1287920.1						10256.09	0.80%
GaRADIAL	64956.8						135.19	0.21%
Ag 328.068†	9.7	0.00048	mg/L	0.000458	0.00048	mg/L	0.000458	95.88%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	75.8	0.00820	mg/L	0.014541	0.00820	mg/L	0.014541	177.27%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.6	0.00054	mg/L	0.001342	0.00054	mg/L	0.001342	249.78%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	9.0	-0.00004	mg/L	0.000062	-0.00004	mg/L	0.000062	147.90%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-78.1	-0.00014	mg/L	0.000011	-0.00014	mg/L	0.000011	8.14%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	209.0	0.00560	mg/L	0.000105	0.00560	mg/L	0.000105	1.88%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	4.9	-0.00681	mg/L	0.044450	-0.00681	mg/L	0.044450	652.59%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	1.9	0.00025	mg/L	0.000103	0.00025	mg/L	0.000103	41.27%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	7.0	0.00050	mg/L	0.000228	0.00050	mg/L	0.000228	45.55%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	3.5	-0.00045	mg/L	0.000079	-0.00045	mg/L	0.000079	17.62%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-1.8	-0.00031	mg/L	0.000343	-0.00031	mg/L	0.000343	109.86%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.5	-0.00278	mg/L	0.002465	-0.00278	mg/L	0.002465	88.67%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-9.4	-0.0151	mg/L	0.00307	-0.0151	mg/L	0.00307	20.29%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	24.9	-0.00021	mg/L	0.000015	-0.00021	mg/L	0.000015	7.25%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	1.2	0.00015	mg/L	0.000223	0.00015	mg/L	0.000223	145.19%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-3.2	-0.00004	mg/L	0.000164	-0.00004	mg/L	0.000164	440.31%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-9.3	-0.00155	mg/L	0.000980	-0.00155	mg/L	0.000980	63.45%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.2	0.00042	mg/L	0.001760	0.00042	mg/L	0.001760	423.16%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.1	-0.00248	mg/L	0.002362	-0.00248	mg/L	0.002362	95.38%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	77.8	0.00179	mg/L	0.000678	0.00179	mg/L	0.000678	37.98%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	1.2	-0.00064	mg/L	0.000130	-0.00064	mg/L	0.000130	20.40%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	233.3	0.00028	mg/L	0.000079	0.00028	mg/L	0.000079	27.77%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801†	2.8	0.00213	mg/L	0.003421	0.00213	mg/L	0.003421 160.78%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 290.880†	-231.6	-0.00032	mg/L	0.001043	-0.00032	mg/L	0.001043 326.21%

QC value within limits for V 290.880 Recovery = Not calculated

Zn 206.200†	6.1	-0.00017	mg/L	0.000088	-0.00017	mg/L	0.000088 52.88%

QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490†	51.3	0.0377	mg/L	0.02636	0.0377	mg/L	0.02636 69.99%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592†	-573.5	-0.0383	mg/L	0.00299	-0.0383	mg/L	0.00299 7.83%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr 407.771†	143.2	-0.00014	mg/L	0.000035	-0.00014	mg/L	0.000035 26.07%

QC value within limits for Sr 407.771 Recovery = Not calculated

Li 670.784†	58.6	0.00168	mg/L	0.000308	0.00168	mg/L	0.000308 18.41%

QC value within limits for Li 670.784 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 43 **Autosampler Location: 86**
Sample ID: L1102041211 **Date Collected: 2/18/2011 8:31:15 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041211

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102041211

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5154255.1						23869.55	0.46%
YRADIAL	328561.8						4307.68	1.31%
Ga 417.206	1323983.7						15321.82	1.16%
GaRADIAL	66263.1						1930.31	2.91%
Ag 328.068†	-52.0	0.00017	mg/L	0.000354	0.00017	mg/L	0.000354	207.26%
Al 396.153†	54.3	0.00389	mg/L	0.022954	0.00389	mg/L	0.022954	589.83%
As 188.979†	-3.4	-0.00305	mg/L	0.001703	-0.00305	mg/L	0.001703	55.75%
Ba 233.527†	0.6	-0.00018	mg/L	0.000033	-0.00018	mg/L	0.000033	17.95%
Be 234.861†	-75.2	-0.00014	mg/L	0.000025	-0.00014	mg/L	0.000025	18.06%
B 249.677†	310.2	0.00755	mg/L	0.000069	0.00755	mg/L	0.000069	0.91%
Ca 227.546†	-1.0	-0.0620	mg/L	0.06054	-0.0620	mg/L	0.06054	97.71%
Cd 228.802†	0.8	0.00021	mg/L	0.000172	0.00021	mg/L	0.000172	80.60%
Co 228.616†	6.4	0.00047	mg/L	0.000072	0.00047	mg/L	0.000072	15.31%
Cr 267.716†	37.1	-0.00015	mg/L	0.000101	-0.00015	mg/L	0.000101	67.09%
Cu 327.393†	67.7	0.00017	mg/L	0.000058	0.00017	mg/L	0.000058	33.89%
Fe 239.562†	2.8	0.00213	mg/L	0.004390	0.00213	mg/L	0.004390	206.16%
Mg 279.077†	-8.8	-0.0144	mg/L	0.00529	-0.0144	mg/L	0.00529	36.61%
Mn 257.610†	52.3	-0.00015	mg/L	0.000017	-0.00015	mg/L	0.000017	11.26%
Mo 202.031†	1.7	0.00020	mg/L	0.000187	0.00020	mg/L	0.000187	95.75%
Ni 231.604†	6.7	0.00025	mg/L	0.000087	0.00025	mg/L	0.000087	34.80%
Pb 220.353†	-3.5	-0.00057	mg/L	0.000479	-0.00057	mg/L	0.000479	83.32%
Sb 206.836†	-0.8	0.00062	mg/L	0.001473	0.00062	mg/L	0.001473	237.90%
Se 196.026†	-1.6	-0.00371	mg/L	0.004340	-0.00371	mg/L	0.004340	116.95%
Si 251.611†	332.2	0.00922	mg/L	0.000276	0.00922	mg/L	0.000276	2.99%
Sn 189.927†	-1.6	-0.00112	mg/L	0.000492	-0.00112	mg/L	0.000492	43.73%
Ti 334.940†	186.3	0.00022	mg/L	0.000123	0.00022	mg/L	0.000123	56.45%
Tl 190.801†	3.1	0.00230	mg/L	0.005295	0.00230	mg/L	0.005295	230.48%
V 290.880†	-235.8	-0.00035	mg/L	0.000596	-0.00035	mg/L	0.000596	171.60%
Zn 206.200†	57.0	0.00138	mg/L	0.000132	0.00138	mg/L	0.000132	9.60%
K 766.490†	42.7	0.0344	mg/L	0.01962	0.0344	mg/L	0.01962	57.01%
Na 589.592†	-732.9	-0.0498	mg/L	0.00325	-0.0498	mg/L	0.00325	6.53%
Sr 407.771†	131.6	-0.00015	mg/L	0.000021	-0.00015	mg/L	0.000021	13.97%
Li 670.784†	-125.7	-0.00062	mg/L	0.001498	-0.00062	mg/L	0.001498	241.61%

Sequence No.: 44 **Autosampler Location: 87**
Sample ID: L1102041212 **Date Collected: 2/18/2011 8:37:54 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041212

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102041212

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5216042.4						34151.94	0.65%
YRADIAL	331506.4						7989.04	2.41%
Ga 417.206	1303840.0						15358.16	1.18%
GaRADIAL	66583.3						1042.53	1.57%
Ag 328.068†	-45.3	0.00020	mg/L	0.000435	0.00020	mg/L	0.000435	213.39%
Al 396.153†	108.4	0.0147	mg/L	0.00870	0.0147	mg/L	0.00870	59.06%
As 188.979†	0.2	0.00019	mg/L	0.001656	0.00019	mg/L	0.001656	892.61%
Ba 233.527†	12.2	0.00001	mg/L	0.000045	0.00001	mg/L	0.000045	377.83%
Be 234.861†	-77.5	-0.00014	mg/L	0.000005	-0.00014	mg/L	0.000005	3.64%
B 249.677†	269.5	0.00676	mg/L	0.000058	0.00676	mg/L	0.000058	0.86%
Ca 227.546†	5.3	-0.00269	mg/L	0.085165	-0.00269	mg/L	0.085165	>999.9%
Cd 228.802†	1.2	0.00021	mg/L	0.000087	0.00021	mg/L	0.000087	42.34%
Co 228.616†	0.2	0.00015	mg/L	0.000220	0.00015	mg/L	0.000220	150.40%
Cr 267.716†	29.7	-0.00022	mg/L	0.000128	-0.00022	mg/L	0.000128	58.96%
Cu 327.393†	439.9	0.00275	mg/L	0.001212	0.00275	mg/L	0.001212	44.03%
Fe 239.562†	2.7	0.00204	mg/L	0.002837	0.00204	mg/L	0.002837	139.18%
Mg 279.077†	-6.1	-0.0112	mg/L	0.00832	-0.0112	mg/L	0.00832	74.30%
Mn 257.610†	65.6	-0.00012	mg/L	0.000021	-0.00012	mg/L	0.000021	18.50%
Mo 202.031†	-0.1	0.00006	mg/L	0.000234	0.00006	mg/L	0.000234	392.61%
Ni 231.604†	8.4	0.00030	mg/L	0.000326	0.00030	mg/L	0.000326	108.70%
Pb 220.353†	-3.0	-0.00049	mg/L	0.001347	-0.00049	mg/L	0.001347	276.49%
Sb 206.836†	1.1	0.00188	mg/L	0.001701	0.00188	mg/L	0.001701	90.67%
Se 196.026†	2.4	-0.00080	mg/L	0.002361	-0.00080	mg/L	0.002361	293.30%
Si 251.611†	813.6	0.0233	mg/L	0.00052	0.0233	mg/L	0.00052	2.25%
Sn 189.927†	0.3	-0.00080	mg/L	0.000505	-0.00080	mg/L	0.000505	63.25%
Ti 334.940†	345.2	0.00044	mg/L	0.000103	0.00044	mg/L	0.000103	23.60%
Tl 190.801†	2.8	0.00211	mg/L	0.001218	0.00211	mg/L	0.001218	57.85%
V 290.880†	-254.2	-0.00047	mg/L	0.000949	-0.00047	mg/L	0.000949	201.59%
Zn 206.200†	75.6	0.00194	mg/L	0.000148	0.00194	mg/L	0.000148	7.62%
K 766.490†	134.9	0.0693	mg/L	0.04170	0.0693	mg/L	0.04170	60.17%
Na 589.592†	-221.9	-0.0129	mg/L	0.00374	-0.0129	mg/L	0.00374	28.98%
Sr 407.771†	160.6	-0.00012	mg/L	0.000037	-0.00012	mg/L	0.000037	30.93%
Li 670.784†	-36.2	0.00049	mg/L	0.001085	0.00049	mg/L	0.001085	219.51%

Sequence No.: 45 **Autosampler Location: 88**
Sample ID: L1102041213 **Date Collected: 2/18/2011 8:44:33 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041213

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102041213

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5242406.9						21663.41	0.41%
YRADIAL	327768.2						4339.78	1.32%
Ga 417.206	1324060.4						4168.11	0.31%
GaRADIAL	65700.7						691.57	1.05%
Ag 328.068†	-11.2	0.00037	mg/L	0.000868	0.00037	mg/L	0.000868	233.33%
Al 396.153†	-7.1	-0.00841	mg/L	0.004289	-0.00841	mg/L	0.004289	51.00%
As 188.979†	1.2	0.00109	mg/L	0.002258	0.00109	mg/L	0.002258	206.78%
Ba 233.527†	12.2	0.00001	mg/L	0.000066	0.00001	mg/L	0.000066	578.42%
Be 234.861†	-80.0	-0.00014	mg/L	0.000007	-0.00014	mg/L	0.000007	4.99%
B 249.677†	338.4	0.00808	mg/L	0.000242	0.00808	mg/L	0.000242	2.99%
Ca 227.546†	10.2	0.0430	mg/L	0.07271	0.0430	mg/L	0.07271	168.93%
Cd 228.802†	-0.1	0.00013	mg/L	0.000209	0.00013	mg/L	0.000209	157.75%
Co 228.616†	3.0	0.00029	mg/L	0.000216	0.00029	mg/L	0.000216	73.87%

Cr 267.716†	43.5	-0.00009	mg/L	0.000050	-0.00009	mg/L	0.000050 53.35%
Cu 327.393†	38.5	-0.00003	mg/L	0.001235	-0.00003	mg/L	0.001235 >999.9%
Fe 239.562†	1.4	-0.00093	mg/L	0.001395	-0.00093	mg/L	0.001395 150.34%
Mg 279.077†	-5.8	-0.0108	mg/L	0.00825	-0.0108	mg/L	0.00825 76.23%
Mn 257.610†	17.6	-0.00023	mg/L	0.000013	-0.00023	mg/L	0.000013 5.54%
Mo 202.031†	4.6	0.00041	mg/L	0.000346	0.00041	mg/L	0.000346 84.64%
Ni 231.604†	7.1	0.00026	mg/L	0.000098	0.00026	mg/L	0.000098 37.38%
Pb 220.353†	-2.6	-0.00041	mg/L	0.000808	-0.00041	mg/L	0.000808 196.20%
Sb 206.836†	-1.5	0.00021	mg/L	0.001860	0.00021	mg/L	0.001860 878.92%
Se 196.026†	3.6	0.00007	mg/L	0.001303	0.00007	mg/L	0.001303 >999.9%
Si 251.611†	237.8	0.00646	mg/L	0.000319	0.00646	mg/L	0.000319 4.94%
Sn 189.927†	-1.3	-0.00108	mg/L	0.000249	-0.00108	mg/L	0.000249 23.09%
Ti 334.940†	86.2	0.00008	mg/L	0.000127	0.00008	mg/L	0.000127 155.10%
Tl 190.801†	3.5	0.00253	mg/L	0.001512	0.00253	mg/L	0.001512 59.71%
V 290.880†	-366.4	-0.00122	mg/L	0.000254	-0.00122	mg/L	0.000254 20.83%
Zn 206.200†	105.0	0.00283	mg/L	0.000068	0.00283	mg/L	0.000068 2.41%
K 766.490†	158.5	0.0783	mg/L	0.03957	0.0783	mg/L	0.03957 50.56%
Na 589.592†	-757.9	-0.0516	mg/L	0.01103	-0.0516	mg/L	0.01103 21.39%
Sr 407.771†	55.5	-0.00022	mg/L	0.000052	-0.00022	mg/L	0.000052 23.35%
Li 670.784†	-125.0	-0.00061	mg/L	0.001516	-0.00061	mg/L	0.001516 247.94%

Sequence No.: 46 **Autosampler Location: 89**
Sample ID: L1102041214 **Date Collected: 2/18/2011 8:51:14 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041214

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102041214

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5277411.4						58736.14	1.11%
YRADIAL	331283.5						7705.42	2.33%
Ga 417.206	1315689.6						9188.09	0.70%
GaRADIAL	65937.3						1688.64	2.56%
Ag 328.068†	-62.9	0.00011	mg/L	0.001101	0.00011	mg/L	0.001101	>999.9%
Al 396.153†	236.3	0.0404	mg/L	0.00658	0.0404	mg/L	0.00658	16.30%
As 188.979†	1.3	0.00124	mg/L	0.000765	0.00124	mg/L	0.000765	61.79%
Ba 233.527†	26.4	0.00025	mg/L	0.000127	0.00025	mg/L	0.000127	50.31%
Be 234.861†	-65.4	-0.00014	mg/L	0.000025	-0.00014	mg/L	0.000025	17.23%
B 249.677†	282.5	0.00756	mg/L	0.000280	0.00756	mg/L	0.000280	3.71%
Ca 227.546†	22.6	0.161	mg/L	0.0309	0.161	mg/L	0.0309	19.19%
Cd 228.802†	4.2	0.00037	mg/L	0.000209	0.00037	mg/L	0.000209	56.99%
Co 228.616†	-0.9	0.00008	mg/L	0.000270	0.00008	mg/L	0.000270	320.14%
Cr 267.716†	145.1	0.00080	mg/L	0.000054	0.00080	mg/L	0.000054	6.71%
Cu 327.393†	1337.3	0.00899	mg/L	0.001058	0.00899	mg/L	0.001058	11.77%
Fe 239.562†	60.5	0.127	mg/L	0.0075	0.127	mg/L	0.0075	5.89%
Mg 279.077†	7.2	0.00503	mg/L	0.006218	0.00503	mg/L	0.006218	123.56%
Mn 257.610†	490.4	0.00087	mg/L	0.000027	0.00087	mg/L	0.000027	3.07%
Mo 202.031†	3.7	0.00035	mg/L	0.000525	0.00035	mg/L	0.000525	151.68%
Ni 231.604†	12.7	0.00043	mg/L	0.000148	0.00043	mg/L	0.000148	34.77%
Pb 220.353†	-4.0	-0.00066	mg/L	0.001002	-0.00066	mg/L	0.001002	150.77%
Sb 206.836†	-0.6	0.00077	mg/L	0.001687	0.00077	mg/L	0.001687	219.31%
Se 196.026†	4.4	0.00070	mg/L	0.001998	0.00070	mg/L	0.001998	284.33%
Si 251.611†	3651.1	0.106	mg/L	0.0013	0.106	mg/L	0.0013	1.23%
Sn 189.927†	0.5	-0.00077	mg/L	0.000498	-0.00077	mg/L	0.000498	64.77%
Ti 334.940†	1201.9	0.00162	mg/L	0.000104	0.00162	mg/L	0.000104	6.41%
Tl 190.801†	1.5	0.00135	mg/L	0.000377	0.00135	mg/L	0.000377	27.89%
V 290.880†	-291.0	-0.00071	mg/L	0.000659	-0.00071	mg/L	0.000659	93.14%
Zn 206.200†	123.6	0.00339	mg/L	0.000239	0.00339	mg/L	0.000239	7.06%
K 766.490†	525.2	0.217	mg/L	0.0225	0.217	mg/L	0.0225	10.36%
Na 589.592†	772.4	0.0588	mg/L	0.00335	0.0588	mg/L	0.00335	5.69%
Sr 407.771†	369.3	0.00007	mg/L	0.000064	0.00007	mg/L	0.000064	91.45%
Li 670.784†	-117.3	-0.00052	mg/L	0.002577	-0.00052	mg/L	0.002577	499.80%

Sequence No.: 47 **Autosampler Location: 90**

Sample ID: L1102041215 **Date Collected: 2/18/2011 8:57:53 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041215

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102041215

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5275171.7						41857.35	0.79%
YRADIAL	330326.8						12262.86	3.71%
Ga 417.206	1330242.7						30518.16	2.29%
GaRADIAL	65807.0						1668.57	2.54%
Ag 328.068†	-24.4	0.00030	mg/L	0.000765	0.00030	mg/L	0.000765	258.34%
Al 396.153†	1116.6	0.217	mg/L	0.0141	0.217	mg/L	0.0141	6.51%
As 188.979†	1.5	0.00148	mg/L	0.002059	0.00148	mg/L	0.002059	139.34%
Ba 233.527†	117.3	0.00179	mg/L	0.000145	0.00179	mg/L	0.000145	8.10%
Be 234.861†	-54.1	-0.00013	mg/L	0.000068	-0.00013	mg/L	0.000068	51.55%
B 249.677†	132.2	0.00467	mg/L	0.000229	0.00467	mg/L	0.000229	4.91%
Ca 227.546†	113.1	1.01	mg/L	0.049	1.01	mg/L	0.049	4.87%
Cd 228.802†	1.9	0.00024	mg/L	0.000146	0.00024	mg/L	0.000146	60.45%
Co 228.616†	3.3	0.00029	mg/L	0.000155	0.00029	mg/L	0.000155	52.99%
Cr 267.716†	928.9	0.00773	mg/L	0.000036	0.00773	mg/L	0.000036	0.47%
Cu 327.393†	3268.0	0.0224	mg/L	0.00091	0.0224	mg/L	0.00091	4.05%
Fe 239.562†	76.6	0.162	mg/L	0.0088	0.162	mg/L	0.0088	5.43%
Mg 279.077†	64.7	0.0749	mg/L	0.00201	0.0749	mg/L	0.00201	2.68%
Mn 257.610†	1520.1	0.00327	mg/L	0.000028	0.00327	mg/L	0.000028	0.86%
Mo 202.031†	1.0	0.00015	mg/L	0.000123	0.00015	mg/L	0.000123	84.19%
Ni 231.604†	8.5	0.00030	mg/L	0.000203	0.00030	mg/L	0.000203	67.38%
Pb 220.353†	1.8	0.00035	mg/L	0.000904	0.00035	mg/L	0.000904	260.18%
Sb 206.836†	-0.9	0.00052	mg/L	0.001792	0.00052	mg/L	0.001792	343.25%
Se 196.026†	-2.2	-0.00386	mg/L	0.000750	-0.00386	mg/L	0.000750	19.40%
Si 251.611†	17146.4	0.501	mg/L	0.0228	0.501	mg/L	0.0228	4.55%
Sn 189.927†	6.2	0.00022	mg/L	0.000351	0.00022	mg/L	0.000351	162.71%
Ti 334.940†	4743.0	0.00649	mg/L	0.000111	0.00649	mg/L	0.000111	1.71%
Tl 190.801†	7.1	0.00464	mg/L	0.004136	0.00464	mg/L	0.004136	89.06%
V 290.880†	-338.6	-0.00102	mg/L	0.000381	-0.00102	mg/L	0.000381	37.18%
Zn 206.200†	213.1	0.00613	mg/L	0.000144	0.00613	mg/L	0.000144	2.35%
K 766.490†	631.8	0.257	mg/L	0.0375	0.257	mg/L	0.0375	14.56%
Na 589.592†	2194.4	0.161	mg/L	0.0132	0.161	mg/L	0.0132	8.17%
Sr 407.771†	2117.2	0.00178	mg/L	0.000201	0.00178	mg/L	0.000201	11.32%
Li 670.784†	-179.5	-0.00129	mg/L	0.001153	-0.00129	mg/L	0.001153	89.42%

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Sequence No.: 48 **Autosampler Location: 91**
Sample ID: L1102041216 **Date Collected: 2/18/2011 9:04:37 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041216

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102041216

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5253923.6						121033.54	2.30%
YRADIAL	325635.5						2608.43	0.80%
Ga 417.206	1338897.5						51788.15	3.87%
GaRADIAL	64820.9						815.72	1.26%
Ag 328.068†	-66.3	0.00010	mg/L	0.000349	0.00010	mg/L	0.000349	364.55%
Al 396.153†	302.1	0.0536	mg/L	0.01457	0.0536	mg/L	0.01457	27.20%
As 188.979†	3.1	0.00283	mg/L	0.002216	0.00283	mg/L	0.002216	78.33%
Ba 233.527†	36.5	0.00042	mg/L	0.000040	0.00042	mg/L	0.000040	9.45%
Be 234.861†	-78.1	-0.00015	mg/L	0.000051	-0.00015	mg/L	0.000051	34.64%

B 249.677†	253.4	0.00659 mg/L	0.000723	0.00659 mg/L	0.000723	10.97%
Ca 227.546†	24.8	0.182 mg/L	0.0337	0.182 mg/L	0.0337	18.55%
Cd 228.802†	2.2	0.00025 mg/L	0.000086	0.00025 mg/L	0.000086	34.48%
Co 228.616†	3.1	0.00029 mg/L	0.000257	0.00029 mg/L	0.000257	88.09%
Cr 267.716†	157.1	0.00091 mg/L	0.000057	0.00091 mg/L	0.000057	6.28%
Cu 327.393†	3234.0	0.0221 mg/L	0.00094	0.0221 mg/L	0.00094	4.24%
Fe 239.562†	20.0	0.0395 mg/L	0.00184	0.0395 mg/L	0.00184	4.67%
Mg 279.077†	8.7	0.00684 mg/L	0.004331	0.00684 mg/L	0.004331	63.33%
Mn 257.610†	468.1	0.00082 mg/L	0.000020	0.00082 mg/L	0.000020	2.44%
Mo 202.031†	2.1	0.00022 mg/L	0.000422	0.00022 mg/L	0.000422	187.75%
Ni 231.604†	19.4	0.00062 mg/L	0.000141	0.00062 mg/L	0.000141	22.90%
Pb 220.353†	17.1	0.00290 mg/L	0.001012	0.00290 mg/L	0.001012	34.89%
Sb 206.836†	-5.3	-0.00225 mg/L	0.001245	-0.00225 mg/L	0.001245	55.22%
Se 196.026†	2.2	-0.00092 mg/L	0.002595	-0.00092 mg/L	0.002595	281.81%
Si 251.611†	4530.5	0.132 mg/L	0.0098	0.132 mg/L	0.0098	7.43%
Sn 189.927†	9.5	0.00080 mg/L	0.000213	0.00080 mg/L	0.000213	26.66%
Ti 334.940†	1440.9	0.00195 mg/L	0.000102	0.00195 mg/L	0.000102	5.25%
Tl 190.801†	8.9	0.00573 mg/L	0.002043	0.00573 mg/L	0.002043	35.66%
V 290.880†	-284.9	-0.00067 mg/L	0.001417	-0.00067 mg/L	0.001417	210.19%
Zn 206.200†	163.0	0.00459 mg/L	0.000102	0.00459 mg/L	0.000102	2.21%
K 766.490†	413.3	0.175 mg/L	0.0146	0.175 mg/L	0.0146	8.36%
Na 589.592†	1188.4	0.0888 mg/L	0.00734	0.0888 mg/L	0.00734	8.26%
Sr 407.771†	393.4	0.00010 mg/L	0.000075	0.00010 mg/L	0.000075	71.80%
Li 670.784†	-75.9	0.00000 mg/L	0.001683	0.00000 mg/L	0.001683	>999.9%

Sequence No.: 49 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/18/2011 9:11:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4967243.9						86631.08	1.74%
YRADIAL	318510.1						2134.43	0.67%
Ga 417.206	1233441.5						19043.77	1.54%
GaRADIAL	62949.5						1321.35	2.10%
Ag 328.068†	86320.2	0.430	mg/L	0.0097	0.430	mg/L	0.0097	2.26%
QC value within limits for Ag 328.068 Recovery = 107.51%								
Al 396.153†	54998.9	11.0	mg/L	0.02	11.0	mg/L	0.02	0.19%
QC value greater than the upper limit for Al 396.153 Recovery = 110.05%								
As 188.979†	477.1	0.433	mg/L	0.0045	0.433	mg/L	0.0045	1.03%
QC value within limits for As 188.979 Recovery = 108.23%								
Ba 233.527†	55499.6	0.942	mg/L	0.0215	0.942	mg/L	0.0215	2.29%
QC value within limits for Ba 233.527 Recovery = 94.18%								
Be 234.861†	32228.1	0.0555	mg/L	0.00145	0.0555	mg/L	0.00145	2.61%
QC value greater than the upper limit for Be 234.861 Recovery = 111.05%								
B 249.677†	28263.5	0.540	mg/L	0.0130	0.540	mg/L	0.0130	2.41%
QC value within limits for B 249.677 Recovery = 108.01%								
Ca 227.546†	1126.3	10.9	mg/L	0.16	10.9	mg/L	0.16	1.50%
QC value within limits for Ca 227.546 Recovery = 108.62%								
Cd 228.802†	953.8	0.0522	mg/L	0.00112	0.0522	mg/L	0.00112	2.15%
QC value within limits for Cd 228.802 Recovery = 104.39%								
Co 228.616†	3622.9	0.184	mg/L	0.0031	0.184	mg/L	0.0031	1.70%
QC value within limits for Co 228.616 Recovery = 91.78%								
Cr 267.716†	52958.3	0.468	mg/L	0.0105	0.468	mg/L	0.0105	2.24%
QC value within limits for Cr 267.716 Recovery = 93.55%								
Cu 327.393†	78274.3	0.544	mg/L	0.0129	0.544	mg/L	0.0129	2.37%
QC value within limits for Cu 327.393 Recovery = 108.88%								
Fe 239.562†	1698.2	3.68	mg/L	0.061	3.68	mg/L	0.061	1.65%
QC value within limits for Fe 239.562 Recovery = 91.93%								
Mg 279.077†	7593.5	9.24	mg/L	0.105	9.24	mg/L	0.105	1.14%
QC value within limits for Mg 279.077 Recovery = 92.44%								
Mn 257.610†	209451.1	0.477	mg/L	0.0109	0.477	mg/L	0.0109	2.29%
QC value within limits for Mn 257.610 Recovery = 95.37%								

```
Mo 202.031†          12539.7       0.938 mg/L        0.0193       0.938 mg/L        0.0193   2.05%
   QC value within limits for Mo 202.031  Recovery = 93.79%
Ni 231.604†          15970.4       0.465 mg/L        0.0094       0.465 mg/L        0.0094   2.03%
   QC value within limits for Ni 231.604  Recovery = 92.96%
Pb 220.353†           2786.5       0.475 mg/L        0.0071       0.475 mg/L        0.0071   1.50%
   QC value within limits for Pb 220.353  Recovery = 95.05%
Sb 206.836†           2089.1        1.34 mg/L         0.020        1.34 mg/L         0.020   1.49%
   QC value greater than the upper limit for Sb 206.836  Recovery = 111.88%
Se 196.026†            606.1       0.434 mg/L        0.0049       0.434 mg/L        0.0049   1.13%
   QC value within limits for Se 196.026  Recovery = 108.54%
Si 251.611†         185496.8        5.41 mg/L         0.130        5.41 mg/L         0.130   2.41%
   QC value within limits for Si 251.611  Recovery = 108.23%
Sn 189.927†          5433.9       0.937 mg/L        0.0165       0.937 mg/L        0.0165   1.76%
   QC value within limits for Sn 189.927  Recovery = 93.70%
Ti 334.940†         689612.5       0.948 mg/L        0.0066       0.948 mg/L        0.0066   0.69%
   QC value within limits for Ti 334.940  Recovery = 94.82%
Tl 190.801†           800.4       0.485 mg/L        0.0074       0.485 mg/L        0.0074   1.53%
   QC value within limits for Tl 190.801  Recovery = 96.91%
V 290.880†          138727.6       0.929 mg/L        0.0212       0.929 mg/L        0.0212   2.28%
   QC value within limits for V 290.880  Recovery = 92.92%
Zn 206.200†          31061.8       0.942 mg/L        0.0218       0.942 mg/L        0.0218   2.31%
   QC value within limits for Zn 206.200  Recovery = 94.24%
K 766.490†          137837.6        53.0 mg/L          0.27        53.0 mg/L          0.27   0.51%
   QC value within limits for K 766.490  Recovery = 105.99%
Na 589.592†         727063.3        53.9 mg/L          0.66        53.9 mg/L          0.66   1.23%
   QC value within limits for Na 589.592  Recovery = 107.85%
Sr 407.771†         849744.4       0.832 mg/L        0.0754       0.832 mg/L        0.0754   9.06%
   QC value less than the lower limit for Sr 407.771  Recovery = 83.19%
Li 670.784†           86440.1        1.08 mg/L         0.003        1.08 mg/L         0.003   0.32%
   QC value within limits for Li 670.784  Recovery = 107.75%
QC Failed.  Continue with analysis.
```

Sequence No.: 50 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/18/2011 9:18:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5138233.8						84305.46	1.64%
YRADIAL	319487.3						7146.36	2.24%
Ga 417.206	1261072.9						24048.99	1.91%
GaRADIAL	62838.6						26.84	0.04%
Ag 328.068†	-47.7	0.00019	mg/L	0.000306	0.00019	mg/L	0.000306	159.79%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-9.8	-0.00894	mg/L	0.001996	-0.00894	mg/L	0.001996	22.32%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.3	-0.00208	mg/L	0.001521	-0.00208	mg/L	0.001521	73.03%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	11.4	0.00000	mg/L	0.000037	0.00000	mg/L	0.000037	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-100.1	-0.00018	mg/L	0.000042	-0.00018	mg/L	0.000042	23.68%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	18.5	0.00201	mg/L	0.000330	0.00201	mg/L	0.000330	16.41%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-1.5	-0.0668	mg/L	0.07845	-0.0668	mg/L	0.07845	117.39%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	4.9	0.00043	mg/L	0.000196	0.00043	mg/L	0.000196	45.13%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	6.1	0.00045	mg/L	0.000158	0.00045	mg/L	0.000158	35.13%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	1.4	-0.00047	mg/L	0.000077	-0.00047	mg/L	0.000077	16.53%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-21.9	-0.00045	mg/L	0.000453	-0.00045	mg/L	0.000453	100.21%

```
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†               0.2    -0.00343 mg/L      0.003542    -0.00343 mg/L      0.003542 103.16%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†              -8.0     -0.0135 mg/L       0.00593     -0.0135 mg/L       0.00593  43.89%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              10.1    -0.00025 mg/L      0.000010    -0.00025 mg/L      0.000010   3.93%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               2.4     0.00024 mg/L      0.000231     0.00024 mg/L      0.000231  94.99%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†             -10.9    -0.00026 mg/L      0.000264    -0.00026 mg/L      0.000264 100.29%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -0.5    -0.00006 mg/L      0.001042    -0.00006 mg/L      0.001042 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -2.0    -0.00012 mg/L      0.001944    -0.00012 mg/L      0.001944 >999.9%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               2.9    -0.00051 mg/L      0.003620    -0.00051 mg/L      0.003620 710.61%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              54.1     0.00109 mg/L      0.000063     0.00109 mg/L      0.000063   5.75%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               4.4    -0.00009 mg/L      0.000067    -0.00009 mg/L      0.000067  70.93%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†             167.4     0.00019 mg/L      0.000146     0.00019 mg/L      0.000146  75.68%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               5.0     0.00340 mg/L      0.002462     0.00340 mg/L      0.002462  72.49%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†             -308.2    -0.00083 mg/L      0.000832    -0.00083 mg/L      0.000832  99.93%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†               5.7    -0.00018 mg/L      0.000092    -0.00018 mg/L      0.000092  50.80%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               88.2      0.0516 mg/L       0.02271      0.0516 mg/L       0.02271  43.99%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†            -606.1     -0.0406 mg/L       0.01054     -0.0406 mg/L       0.01054  25.95%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†             152.6    -0.00013 mg/L      0.000029    -0.00013 mg/L      0.000029  23.18%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             -44.4     0.00039 mg/L      0.000259     0.00039 mg/L      0.000259  65.88%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

================================================================================================
Sequence No.: 51                                  Autosampler Location: 135
Sample ID: PBW 59 WG356954-02                     Date Collected: 2/18/2011 9:24:40 PM
Analyst: PDM                                      Data Type: Original
Initial Sample Wt:                                Initial Sample Vol:
Dilution:                                         Sample Prep Vol:

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Nebulizer Parameters: PBW 59 WG356954-02
Analyte                 Back Pressure    Flow
All                    170.0 kPa         0.50 L/min

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Mean Data: PBW 59 WG356954-02
                  Mean Corrected          Calib.                          Sample
Analyte              Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029          5239931.3                                                      58860.70   1.12%
YRADIAL             319742.1                                                       5357.63   1.68%
Ga 417.206         1221892.9                                                      13571.23   1.11%
GaRADIAL             62986.6                                                        550.68   0.87%
Ag 328.068†            -202.9    -0.00058 mg/L      0.001349    -0.00058 mg/L      0.001349 232.19%
Al 396.153†              40.7     0.00117 mg/L      0.012495     0.00117 mg/L      0.012495 >999.9%
As 188.979†              -0.2    -0.00018 mg/L      0.000879    -0.00018 mg/L      0.000879 483.59%
Ba 233.527†               3.8    -0.00013 mg/L      0.000062    -0.00013 mg/L      0.000062  46.80%
Be 234.861†            -225.9    -0.00039 mg/L      0.000019    -0.00039 mg/L      0.000019   4.82%
B 249.677†               16.7     0.00197 mg/L      0.000139     0.00197 mg/L      0.000139   7.07%
Ca 227.546†              16.2      0.0995 mg/L       0.04931      0.0995 mg/L       0.04931  49.57%
Cd 228.802†               6.4     0.00050 mg/L      0.000101     0.00050 mg/L      0.000101  20.09%
Co 228.616†               2.5     0.00027 mg/L      0.000308     0.00027 mg/L      0.000308 115.12%
Cr 267.716†              19.7    -0.00031 mg/L      0.000085    -0.00031 mg/L      0.000085  27.88%
Cu 327.393†              12.6    -0.00021 mg/L      0.000220    -0.00021 mg/L      0.000220 103.16%
Fe 239.562†               0.6    -0.00261 mg/L      0.003547    -0.00261 mg/L      0.003547 136.05%
Mg 279.077†              85.9       0.101 mg/L        0.0052       0.101 mg/L        0.0052   5.13%
Mn 257.610†              -6.7    -0.00029 mg/L      0.000019    -0.00029 mg/L      0.000019   6.51%
```

Data not reported from her to the end of analysis due to CCV failures.

Mo 202.031†	0.1	0.00007	mg/L	0.000143	0.00007	mg/L	0.000143 209.16%
Ni 231.604†	-12.6	-0.00031	mg/L	0.000311	-0.00031	mg/L	0.000311 99.88%
Pb 220.353†	-2.2	-0.00035	mg/L	0.001868	-0.00035	mg/L	0.001868 530.64%
Sb 206.836†	2.4	0.00270	mg/L	0.000931	0.00270	mg/L	0.000931 34.46%
Se 196.026†	5.6	0.00145	mg/L	0.006184	0.00145	mg/L	0.006184 425.53%
Si 251.611†	40.8	0.00070	mg/L	0.000387	0.00070	mg/L	0.000387 55.19%
Sn 189.927†	22.8	0.00308	mg/L	0.000467	0.00308	mg/L	0.000467 15.18%
Ti 334.940†	49.8	0.00003	mg/L	0.000218	0.00003	mg/L	0.000218 677.08%
Tl 190.801†	1.4	0.00126	mg/L	0.001736	0.00126	mg/L	0.001736 137.36%
V 290.880†	-453.0	-0.00180	mg/L	0.001013	-0.00180	mg/L	0.001013 56.25%
Zn 206.200†	46.3	0.00105	mg/L	0.000194	0.00105	mg/L	0.000194 18.45%
K 766.490†	57.0	0.0398	mg/L	0.00461	0.0398	mg/L	0.00461 11.58%
Na 589.592†	-242.1	-0.0144	mg/L	0.00973	-0.0144	mg/L	0.00973 67.78%
Sr 407.771†	1176.4	0.00088	mg/L	0.000072	0.00088	mg/L	0.000072 8.22%
Li 670.784†	-92.6	-0.00021	mg/L	0.001780	-0.00021	mg/L	0.001780 856.52%

Sequence No.: 52 **Autosampler Location: 136**
Sample ID: LCSW 59 WG356954-03 **Date Collected: 2/18/2011 9:31:22 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 59 WG356954-03

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: LCSW 59 WG356954-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5008453.3						8707.25	0.17%
YRADIAL	313631.2						535.60	0.17%
Ga 417.206	1216791.8						2275.92	0.19%
GaRADIAL	61080.3						1319.00	2.16%
Ag 328.068†	43343.1	0.216	mg/L	0.0048	0.216	mg/L	0.0048	2.24%
Al 396.153†	27583.3	5.52	mg/L	0.016	5.52	mg/L	0.016	0.28%
As 188.979†	234.3	0.213	mg/L	0.0020	0.213	mg/L	0.0020	0.92%
Ba 233.527†	27903.9	0.473	mg/L	0.0119	0.473	mg/L	0.0119	2.52%
Be 234.861†	15563.5	0.0268	mg/L	0.00065	0.0268	mg/L	0.00065	2.43%
B 249.677†	55924.2	1.06	mg/L	0.029	1.06	mg/L	0.029	2.69%
Ca 227.546†	533.1	5.12	mg/L	0.079	5.12	mg/L	0.079	1.54%
Cd 228.802†	471.6	0.0259	mg/L	0.00030	0.0259	mg/L	0.00030	1.16%
Co 228.616†	1797.5	0.0911	mg/L	0.00023	0.0911	mg/L	0.00023	0.25%
Cr 267.716†	26690.4	0.236	mg/L	0.0054	0.236	mg/L	0.0054	2.30%
Cu 327.393†	40172.5	0.279	mg/L	0.0075	0.279	mg/L	0.0075	2.69%
Fe 239.562†	830.7	1.80	mg/L	0.032	1.80	mg/L	0.032	1.79%
Mg 279.077†	3768.7	4.59	mg/L	0.053	4.59	mg/L	0.053	1.15%
Mn 257.610†	105689.1	0.240	mg/L	0.0056	0.240	mg/L	0.0056	2.34%
Mo 202.031†	6368.3	0.476	mg/L	0.0116	0.476	mg/L	0.0116	2.44%
Ni 231.604†	8042.2	0.234	mg/L	0.0047	0.234	mg/L	0.0047	1.99%
Pb 220.353†	1371.6	0.234	mg/L	0.0022	0.234	mg/L	0.0022	0.92%
Sb 206.836†	1037.1	0.667	mg/L	0.0019	0.667	mg/L	0.0019	0.28%
Se 196.026†	291.8	0.208	mg/L	0.0047	0.208	mg/L	0.0047	2.24%
Si 251.611†	95344.9	2.78	mg/L	0.074	2.78	mg/L	0.074	2.65%
Sn 189.927†	20.6	0.00271	mg/L	0.000139	0.00271	mg/L	0.000139	5.13%
Ti 334.940†	346488.7	0.476	mg/L	0.0020	0.476	mg/L	0.0020	0.42%
Tl 190.801†	388.6	0.236	mg/L	0.0028	0.236	mg/L	0.0028	1.19%
V 290.880†	69804.0	0.468	mg/L	0.0130	0.468	mg/L	0.0130	2.77%
Zn 206.200†	15159.6	0.460	mg/L	0.0107	0.460	mg/L	0.0107	2.32%
K 766.490†	67612.9	25.8	mg/L	0.01	25.8	mg/L	0.01	0.05%
Na 589.592†	361690.9	26.4	mg/L	0.27	26.4	mg/L	0.27	1.04%
Sr 407.771†	409535.1	0.401	mg/L	0.0406	0.401	mg/L	0.0406	10.14%
Li 670.784†	42153.1	0.526	mg/L	0.0039	0.526	mg/L	0.0039	0.74%

Sequence No.: 53 **Autosampler Location: 137**
Sample ID: FBLK WG356907-01 **Date Collected: 2/18/2011 9:38:24 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK WG356907-01

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: FBLK WG356907-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4963788.2						54211.92	1.09%
YRADIAL	310115.5						1491.95	0.48%
Ga 417.206	1194725.0						19579.33	1.64%
GaRADIAL	59388.1						893.63	1.50%
Ag 328.068†	-74.8	0.00006	mg/L	0.000802	0.00006	mg/L	0.000802	>999.9%
Al 396.153†	27.8	-0.00141	mg/L	0.014005	-0.00141	mg/L	0.014005	994.22%
As 188.979†	0.6	0.00058	mg/L	0.000416	0.00058	mg/L	0.000416	71.72%
Ba 233.527†	11.1	0.00000	mg/L	0.000078	0.00000	mg/L	0.000078	>999.9%
Be 234.861†	-252.3	-0.00044	mg/L	0.000005	-0.00044	mg/L	0.000005	1.15%
B 249.677†	247.9	0.00640	mg/L	0.000091	0.00640	mg/L	0.000091	1.42%
Ca 227.546†	-1.7	-0.0686	mg/L	0.05131	-0.0686	mg/L	0.05131	74.80%
Cd 228.802†	8.2	0.00060	mg/L	0.000252	0.00060	mg/L	0.000252	42.10%
Co 228.616†	7.2	0.00051	mg/L	0.000234	0.00051	mg/L	0.000234	46.33%
Cr 267.716†	51.0	-0.00003	mg/L	0.000093	-0.00003	mg/L	0.000093	346.69%
Cu 327.393†	15.9	-0.00019	mg/L	0.000778	-0.00019	mg/L	0.000778	417.20%
Fe 239.562†	6.0	0.00904	mg/L	0.008855	0.00904	mg/L	0.008855	97.95%
Mg 279.077†	16.1	0.0159	mg/L	0.00739	0.0159	mg/L	0.00739	46.53%
Mn 257.610†	107.2	0.00148	mg/L	0.000017	0.00148	mg/L	0.000017	1.13%
Mo 202.031†	1.0	0.00014	mg/L	0.000209	0.00014	mg/L	0.000209	147.16%
Ni 231.604†	3.3	0.00015	mg/L	0.000169	0.00015	mg/L	0.000169	110.67%
Pb 220.353†	-1.8	-0.00030	mg/L	0.001319	-0.00030	mg/L	0.001319	444.45%
Sb 206.836†	0.7	0.00158	mg/L	0.002441	0.00158	mg/L	0.002441	154.88%
Se 196.026†	5.7	0.00148	mg/L	0.002409	0.00148	mg/L	0.002409	162.25%
Si 251.611†	2328.0	0.0676	mg/L	0.00182	0.0676	mg/L	0.00182	2.69%
Sn 189.927†	25.2	0.00351	mg/L	0.000702	0.00351	mg/L	0.000702	20.04%
Ti 334.940†	1244.5	0.00167	mg/L	0.000018	0.00167	mg/L	0.000018	1.06%
Tl 190.801†	-1.4	-0.00034	mg/L	0.002544	-0.00034	mg/L	0.002544	738.47%
V 290.880†	-93.4	0.00061	mg/L	0.000688	0.00061	mg/L	0.000688	113.52%
Zn 206.200†	127.3	0.00351	mg/L	0.000129	0.00351	mg/L	0.000129	3.68%
K 766.490†	650.4	0.102	mg/L	0.0238	0.102	mg/L	0.0238	23.26%
Na 589.592†	2063053.4	162	mg/L	1.9	162	mg/L	1.9	1.17%
Sr 407.771†	581.8	0.00029	mg/L	0.000145	0.00029	mg/L	0.000145	49.37%
Li 670.784†	161.9	0.00296	mg/L	0.001971	0.00296	mg/L	0.001971	66.55%

Sequence No.: 54 **Autosampler Location: 138**
Sample ID: FBLK WG356907-02 **Date Collected: 2/18/2011 9:45:08 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK WG356907-02

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: FBLK WG356907-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5232932.5						18077.67	0.35%
YRADIAL	324566.4						8565.50	2.64%
Ga 417.206	1224399.5						9076.77	0.74%
GaRADIAL	63088.5						1090.86	1.73%
Ag 328.068†	31.8	0.00058	mg/L	0.000761	0.00058	mg/L	0.000761	130.36%
Al 396.153†	238.9	0.0409	mg/L	0.01044	0.0409	mg/L	0.01044	25.52%
As 188.979†	0.7	0.00069	mg/L	0.001333	0.00069	mg/L	0.001333	193.21%
Ba 233.527†	17.9	0.00011	mg/L	0.000039	0.00011	mg/L	0.000039	36.33%
Be 234.861†	-242.4	-0.00042	mg/L	0.000018	-0.00042	mg/L	0.000018	4.32%
B 249.677†	54.9	0.00275	mg/L	0.000315	0.00275	mg/L	0.000315	11.48%
Ca 227.546†	26.6	0.199	mg/L	0.0553	0.199	mg/L	0.0553	27.87%
Cd 228.802†	8.8	0.00063	mg/L	0.000213	0.00063	mg/L	0.000213	33.92%
Co 228.616†	1.3	0.00020	mg/L	0.000146	0.00020	mg/L	0.000146	72.80%
Cr 267.716†	73.8	0.00017	mg/L	0.000077	0.00017	mg/L	0.000077	44.70%

Cu 327.393†	240.9	0.00138	mg/L	0.000696	0.00138	mg/L	0.000696 50.60%
Fe 239.562†	10.6	0.0191	mg/L	0.00084	0.0191	mg/L	0.00084 4.37%
Mg 279.077†	27.3	0.0295	mg/L	0.00120	0.0295	mg/L	0.00120 4.05%
Mn 257.610†	858.3	0.00169	mg/L	0.000008	0.00169	mg/L	0.000008 0.49%
Mo 202.031†	-1.3	-0.00003	mg/L	0.000129	-0.00003	mg/L	0.000129 387.21%
Ni 231.604†	39.5	0.00121	mg/L	0.000229	0.00121	mg/L	0.000229 18.95%
Pb 220.353†	-6.3	-0.00104	mg/L	0.000221	-0.00104	mg/L	0.000221 21.23%
Sb 206.836†	1.3	0.00196	mg/L	0.001606	0.00196	mg/L	0.001606 82.06%
Se 196.026†	5.0	0.00109	mg/L	0.002992	0.00109	mg/L	0.002992 273.51%
Si 251.611†	4609.0	0.134	mg/L	0.0044	0.134	mg/L	0.0044 3.27%
Sn 189.927†	27.9	0.00396	mg/L	0.000495	0.00396	mg/L	0.000495 12.49%
Ti 334.940†	1680.4	0.00228	mg/L	0.000081	0.00228	mg/L	0.000081 3.57%
Tl 190.801†	-1.1	-0.00021	mg/L	0.001361	-0.00021	mg/L	0.001361 639.68%
V 290.880†	-372.4	-0.00126	mg/L	0.000531	-0.00126	mg/L	0.000531 42.11%
Zn 206.200†	139.3	0.00387	mg/L	0.000162	0.00387	mg/L	0.000162 4.17%
K 766.490†	187.1	0.0889	mg/L	0.02706	0.0889	mg/L	0.02706 30.43%
Na 589.592†	1511.2	0.112	mg/L	0.0612	0.112	mg/L	0.0612 54.55%
Sr 407.771†	531.1	0.00024	mg/L	0.000022	0.00024	mg/L	0.000022 9.15%
Li 670.784†	3.3	0.00099	mg/L	0.001516	0.00099	mg/L	0.001516 153.68%

Sequence No.: 55 **Autosampler Location: 139**
Sample ID: L1102035701 **Date Collected: 2/18/2011 9:51:54 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102035701

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102035701

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4990428.5						56767.59	1.14%
YRADIAL	307282.9						3566.41	1.16%
Ga 417.206	1193539.7						15454.29	1.29%
GaRADIAL	58899.3						1312.59	2.23%
Ag 328.068†	318.5	0.00200	mg/L	0.000119	0.00200	mg/L	0.000119	5.96%
Al 396.153†	29.2	-0.00112	mg/L	0.009905	-0.00112	mg/L	0.009905	880.81%
As 188.979†	7.3	0.00504	mg/L	0.001393	0.00504	mg/L	0.001393	27.64%
Ba 233.527†	26808.9	0.454	mg/L	0.0057	0.454	mg/L	0.0057	1.25%
Be 234.861†	-239.8	-0.00042	mg/L	0.000023	-0.00042	mg/L	0.000023	5.41%
B 249.677†	523.4	0.0116	mg/L	0.00035	0.0116	mg/L	0.00035	3.01%
Ca 227.546†	9081.6	85.5	mg/L	1.09	85.5	mg/L	1.09	1.28%
Cd 228.802†	25.5	0.00151	mg/L	0.000110	0.00151	mg/L	0.000110	7.29%
Co 228.616†	-10.4	-0.00055	mg/L	0.000086	-0.00055	mg/L	0.000086	15.66%
Cr 267.716†	65.0	0.00009	mg/L	0.000125	0.00009	mg/L	0.000125	140.52%
Cu 327.393†	-322.7	-0.00253	mg/L	0.000144	-0.00253	mg/L	0.000144	5.69%
Fe 239.562†	9.9	0.0176	mg/L	0.00524	0.0176	mg/L	0.00524	29.82%
Mg 279.077†	1127.2	1.37	mg/L	0.020	1.37	mg/L	0.020	1.45%
Mn 257.610†	7847.2	0.0191	mg/L	0.00027	0.0191	mg/L	0.00027	1.39%
Mo 202.031†	1.8	0.00020	mg/L	0.000441	0.00020	mg/L	0.000441	219.78%
Ni 231.604†	229.3	0.00669	mg/L	0.000046	0.00669	mg/L	0.000046	0.68%
Pb 220.353†	21.6	0.00776	mg/L	0.000725	0.00776	mg/L	0.000725	9.34%
Sb 206.836†	16.8	0.0119	mg/L	0.00168	0.0119	mg/L	0.00168	14.14%
Se 196.026†	-32.5	-0.00442	mg/L	0.001552	-0.00442	mg/L	0.001552	35.13%
Si 251.611†	14386.7	0.420	mg/L	0.0083	0.420	mg/L	0.0083	1.99%
Sn 189.927†	34.9	0.00518	mg/L	0.001536	0.00518	mg/L	0.001536	29.66%
Ti 334.940†	1540.2	0.00294	mg/L	0.000074	0.00294	mg/L	0.000074	2.54%
Tl 190.801†	108.0	0.0567	mg/L	0.00069	0.0567	mg/L	0.00069	1.22%
V 290.880†	-284.9	-0.00069	mg/L	0.000966	-0.00069	mg/L	0.000966	139.07%
Zn 206.200†	458.3	0.0135	mg/L	0.00034	0.0135	mg/L	0.00034	2.52%
K 766.490†	1036.8	0.250	mg/L	0.0782	0.250	mg/L	0.0782	31.36%
Na 589.592†	2051443.2	161	mg/L	5.0	161	mg/L	5.0	3.13%
Sr 407.771†	56639.4	0.0552	mg/L	0.00407	0.0552	mg/L	0.00407	7.38%
Li 670.784†	224.0	0.00374	mg/L	0.001823	0.00374	mg/L	0.001823	48.81%

Sequence No.: 56 **Autosampler Location: 140**
Sample ID: L1102035701PS WG356971-01 **Date Collected: 2/18/2011 9:58:39 PM**

Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102035701PS WG356971-01

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102035701PS WG356971-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4857520.7						42217.53	0.87%
YRADIAL	304202.1						7272.03	2.39%
Ga 417.206	1178983.9						8364.36	0.71%
GaRADIAL	59249.8						2005.52	3.38%
Ag 328.068†	44775.4	0.223	mg/L	0.0016	0.223	mg/L	0.0016	0.70%
Al 396.153†	27622.9	5.52	mg/L	0.019	5.52	mg/L	0.019	0.35%
As 188.979†	250.5	0.226	mg/L	0.0012	0.226	mg/L	0.0012	0.51%
Ba 233.527†	52546.7	0.891	mg/L	0.0122	0.891	mg/L	0.0122	1.38%
Be 234.861†	16314.1	0.0281	mg/L	0.00017	0.0281	mg/L	0.00017	0.61%
B 249.677†	58243.1	1.11	mg/L	0.006	1.11	mg/L	0.006	0.56%
Ca 227.546†	9002.2	84.9	mg/L	0.51	84.9	mg/L	0.51	0.60%
Cd 228.802†	500.8	0.0274	mg/L	0.00020	0.0274	mg/L	0.00020	0.74%
Co 228.616†	1783.8	0.0903	mg/L	0.00088	0.0903	mg/L	0.00088	0.98%
Cr 267.716†	26969.3	0.238	mg/L	0.0022	0.238	mg/L	0.0022	0.91%
Cu 327.393†	40571.3	0.282	mg/L	0.0015	0.282	mg/L	0.0015	0.51%
Fe 239.562†	846.9	1.83	mg/L	0.055	1.83	mg/L	0.055	3.00%
Mg 279.077†	4787.5	5.83	mg/L	0.149	5.83	mg/L	0.149	2.56%
Mn 257.610†	112442.5	0.257	mg/L	0.0034	0.257	mg/L	0.0034	1.33%
Mo 202.031†	6564.1	0.491	mg/L	0.0045	0.491	mg/L	0.0045	0.91%
Ni 231.604†	8227.5	0.239	mg/L	0.0025	0.239	mg/L	0.0025	1.06%
Pb 220.353†	1408.0	0.244	mg/L	0.0017	0.244	mg/L	0.0017	0.68%
Sb 206.836†	1073.2	0.690	mg/L	0.0035	0.690	mg/L	0.0035	0.51%
Se 196.026†	274.5	0.215	mg/L	0.0053	0.215	mg/L	0.0053	2.48%
Si 251.611†	112659.1	3.29	mg/L	0.018	3.29	mg/L	0.018	0.53%
Sn 189.927†	24.9	0.00345	mg/L	0.001046	0.00345	mg/L	0.001046	30.31%
Ti 334.940†	354241.1	0.488	mg/L	0.0037	0.488	mg/L	0.0037	0.75%
Tl 190.801†	480.3	0.283	mg/L	0.0021	0.283	mg/L	0.0021	0.73%
V 290.880†	71155.7	0.477	mg/L	0.0060	0.477	mg/L	0.0060	1.26%
Zn 206.200†	16028.2	0.486	mg/L	0.0057	0.486	mg/L	0.0057	1.18%
K 766.490†	71257.9	27.0	mg/L	0.30	27.0	mg/L	0.30	1.09%
Na 589.592†	2232395.4	177	mg/L	7.2	177	mg/L	7.2	4.09%
Sr 407.771†	459345.8	0.450	mg/L	0.0517	0.450	mg/L	0.0517	11.51%
Li 670.784†	42898.7	0.535	mg/L	0.0052	0.535	mg/L	0.0052	0.97%

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Sequence No.: 57 **Autosampler Location: 141**
Sample ID: L1102035701DL WG356971-02 **Date Collected: 2/18/2011 10:05:26 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102035701DL WG356971-02

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102035701DL WG356971-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5159880.0						43216.75	0.84%
YRADIAL	318445.5						4515.47	1.42%
Ga 417.206	1240732.7						19503.86	1.57%
GaRADIAL	61161.3						1571.36	2.57%
Ag 328.068†	103.7	0.00094	mg/L	0.000258	0.00094	mg/L	0.000258	27.44%
Al 396.153†	114.0	0.0159	mg/L	0.00736	0.0159	mg/L	0.00736	46.41%
As 188.979†	3.1	0.00256	mg/L	0.000910	0.00256	mg/L	0.000910	35.57%
Ba 233.527†	5386.6	0.0910	mg/L	0.00119	0.0910	mg/L	0.00119	1.31%
Be 234.861†	-143.1	-0.00025	mg/L	0.000012	-0.00025	mg/L	0.000012	4.92%
B 249.677†	222.5	0.00587	mg/L	0.000440	0.00587	mg/L	0.000440	7.49%

Ca 227.546†	1761.5	16.5	mg/L	0.13	16.5	mg/L	0.13	0.78%
Cd 228.802†	7.2	0.00053	mg/L	0.000105	0.00053	mg/L	0.000105	19.88%
Co 228.616†	4.8	0.00035	mg/L	0.000032	0.00035	mg/L	0.000032	8.93%
Cr 267.716†	8.7	-0.00040	mg/L	0.000134	-0.00040	mg/L	0.000134	33.23%
Cu 327.393†	-43.8	-0.00060	mg/L	0.000826	-0.00060	mg/L	0.000826	137.26%
Fe 239.562†	3.3	0.00329	mg/L	0.000429	0.00329	mg/L	0.000429	13.06%
Mg 279.077†	218.5	0.262	mg/L	0.0113	0.262	mg/L	0.0113	4.30%
Mn 257.610†	1622.1	0.00371	mg/L	0.000037	0.00371	mg/L	0.000037	0.99%
Mo 202.031†	3.9	0.00036	mg/L	0.000249	0.00036	mg/L	0.000249	69.79%
Ni 231.604†	40.3	0.00122	mg/L	0.000158	0.00122	mg/L	0.000158	12.99%
Pb 220.353†	-4.6	0.00003	mg/L	0.001602	0.00003	mg/L	0.001602	>999.9%
Sb 206.836†	0.7	0.00162	mg/L	0.000473	0.00162	mg/L	0.000473	29.19%
Se 196.026†	-8.4	-0.00443	mg/L	0.005889	-0.00443	mg/L	0.005889	133.00%
Si 251.611†	3083.8	0.0897	mg/L	0.00206	0.0897	mg/L	0.00206	2.30%
Sn 189.927†	10.7	0.00100	mg/L	0.000911	0.00100	mg/L	0.000911	91.13%
Ti 334.940†	355.4	0.00062	mg/L	0.000189	0.00062	mg/L	0.000189	30.57%
Tl 190.801†	36.6	0.0206	mg/L	0.00514	0.0206	mg/L	0.00514	24.96%
V 290.880†	-359.4	-0.00118	mg/L	0.000309	-0.00118	mg/L	0.000309	26.22%
Zn 206.200†	173.6	0.00491	mg/L	0.000038	0.00491	mg/L	0.000038	0.78%
K 766.490†	291.0	0.0985	mg/L	0.03250	0.0985	mg/L	0.03250	33.00%
Na 589.592†	407816.8	29.9	mg/L	0.18	29.9	mg/L	0.18	0.61%
Sr 407.771†	11166.2	0.0107	mg/L	0.00074	0.0107	mg/L	0.00074	6.97%
Li 670.784†	185.8	0.00326	mg/L	0.001675	0.00326	mg/L	0.001675	51.38%

Sequence No.: 58 **Autosampler Location: 142**
Sample ID: L1102035801 **Date Collected: 2/18/2011 10:12:12 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102035801

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102035801

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	4994398.3						55839.08	1.12%
YRADIAL	313632.7						5224.48	1.67%
Ga 417.206	1187521.3						16172.28	1.36%
GaRADIAL	59717.0						1223.27	2.05%
Ag 328.068†	328.2	0.00204	mg/L	0.000610	0.00204	mg/L	0.000610	29.93%
Al 396.153†	291.0	0.0513	mg/L	0.00456	0.0513	mg/L	0.00456	8.88%
As 188.979†	6.9	0.00444	mg/L	0.002982	0.00444	mg/L	0.002982	67.21%
Ba 233.527†	17841.2	0.302	mg/L	0.0042	0.302	mg/L	0.0042	1.40%
Be 234.861†	-226.1	-0.00041	mg/L	0.000037	-0.00041	mg/L	0.000037	8.87%
B 249.677†	885.2	0.0189	mg/L	0.00036	0.0189	mg/L	0.00036	1.90%
Ca 227.546†	10095.4	95.0	mg/L	1.27	95.0	mg/L	1.27	1.34%
Cd 228.802†	20.2	0.00122	mg/L	0.000120	0.00122	mg/L	0.000120	9.86%
Co 228.616†	-5.2	-0.00024	mg/L	0.000212	-0.00024	mg/L	0.000212	88.32%
Cr 267.716†	149.2	0.00083	mg/L	0.000034	0.00083	mg/L	0.000034	4.06%
Cu 327.393†	-212.6	-0.00174	mg/L	0.000205	-0.00174	mg/L	0.000205	11.73%
Fe 239.562†	60.4	0.127	mg/L	0.0023	0.127	mg/L	0.0023	1.80%
Mg 279.077†	824.8	1.00	mg/L	0.011	1.00	mg/L	0.011	1.06%
Mn 257.610†	10999.7	0.0262	mg/L	0.00031	0.0262	mg/L	0.00031	1.19%
Mo 202.031†	9.9	0.00082	mg/L	0.000362	0.00082	mg/L	0.000362	44.43%
Ni 231.604†	115.7	0.00338	mg/L	0.000258	0.00338	mg/L	0.000258	7.62%
Pb 220.353†	-15.1	0.00203	mg/L	0.000767	0.00203	mg/L	0.000767	37.81%
Sb 206.836†	14.4	0.0104	mg/L	0.00379	0.0104	mg/L	0.00379	36.54%
Se 196.026†	-40.7	-0.00793	mg/L	0.007835	-0.00793	mg/L	0.007835	98.81%
Si 251.611†	9097.4	0.266	mg/L	0.0049	0.266	mg/L	0.0049	1.83%
Sn 189.927†	28.3	0.00403	mg/L	0.000635	0.00403	mg/L	0.000635	15.74%
Ti 334.940†	3278.0	0.00542	mg/L	0.000093	0.00542	mg/L	0.000093	1.71%
Tl 190.801†	107.4	0.0555	mg/L	0.00466	0.0555	mg/L	0.00466	8.40%
V 290.880†	-42.7	0.00094	mg/L	0.000762	0.00094	mg/L	0.000762	81.02%
Zn 206.200†	2855.6	0.0861	mg/L	0.00081	0.0861	mg/L	0.00081	0.94%
K 766.490†	1028.1	0.245	mg/L	0.0204	0.245	mg/L	0.0204	8.32%
Na 589.592†	2068983.6	163	mg/L	1.4	163	mg/L	1.4	0.85%
Sr 407.771†	75436.6	0.0736	mg/L	0.00630	0.0736	mg/L	0.00630	8.56%
Li 670.784†	189.8	0.00331	mg/L	0.001048	0.00331	mg/L	0.001048	31.66%

Sequence No.: 59 **Autosampler Location: 143**
Sample ID: L1102038202 **Date Collected: 2/18/2011 10:18:59 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102038202

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102038202

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4983896.0						17225.11	0.35%
YRADIAL	313577.8						6555.84	2.09%
Ga 417.206	1170992.2						2069.73	0.18%
GaRADIAL	59030.0						210.16	0.36%
Ag 328.068†	-90.4	-0.00020	mg/L	0.000135	-0.00020	mg/L	0.000135	67.49%
Al 396.153†	11351.9	2.27	mg/L	0.023	2.27	mg/L	0.023	1.04%
As 188.979†	-0.3	-0.00002	mg/L	0.003248	-0.00002	mg/L	0.003248	>999.9%
Ba 233.527†	1468.4	0.0246	mg/L	0.00008	0.0246	mg/L	0.00008	0.32%
Be 234.861†	353.7	-0.00008	mg/L	0.000094	-0.00008	mg/L	0.000094	114.04%
B 249.677†	3075.7	0.0732	mg/L	0.00062	0.0732	mg/L	0.00062	0.85%
Ca 227.546†	550.0	5.15	mg/L	0.069	5.15	mg/L	0.069	1.35%
Cd 228.802†	12.4	0.00086	mg/L	0.000112	0.00086	mg/L	0.000112	13.00%
Co 228.616†	41.2	0.00210	mg/L	0.000095	0.00210	mg/L	0.000095	4.52%
Cr 267.716†	406.2	0.00304	mg/L	0.000093	0.00304	mg/L	0.000093	3.06%
Cu 327.393†	4842.5	0.0337	mg/L	0.00071	0.0337	mg/L	0.00071	2.10%
Fe 239.562†	1573.6	3.41	mg/L	0.038	3.41	mg/L	0.038	1.11%
Mg 279.077†	957.9	1.16	mg/L	0.019	1.16	mg/L	0.019	1.68%
Mn 257.610†	37425.2	0.0861	mg/L	0.00076	0.0861	mg/L	0.00076	0.88%
Mo 202.031†	2.5	0.00044	mg/L	0.000409	0.00044	mg/L	0.000409	92.97%
Ni 231.604†	488.5	0.0143	mg/L	0.00004	0.0143	mg/L	0.00004	0.28%
Pb 220.353†	107.5	0.0183	mg/L	0.00016	0.0183	mg/L	0.00016	0.88%
Sb 206.836†	2.1	0.00246	mg/L	0.000841	0.00246	mg/L	0.000841	34.15%
Se 196.026†	4.6	0.00301	mg/L	0.004574	0.00301	mg/L	0.004574	152.16%
Si 251.611†	43908.8	1.28	mg/L	0.013	1.28	mg/L	0.013	1.01%
Sn 189.927†	28.1	0.00401	mg/L	0.000913	0.00401	mg/L	0.000913	22.79%
Ti 334.940†	17793.2	0.0245	mg/L	0.00014	0.0245	mg/L	0.00014	0.57%
Tl 190.801†	8.7	0.00552	mg/L	0.001853	0.00552	mg/L	0.001853	33.56%
V 290.880†	223.8	0.00299	mg/L	0.000532	0.00299	mg/L	0.000532	17.80%
Zn 206.200†	16546.1	0.501	mg/L	0.0049	0.501	mg/L	0.0049	0.97%
K 766.490†	1653.4	0.478	mg/L	0.0220	0.478	mg/L	0.0220	4.61%
Na 589.592†	2113681.2	167	mg/L	2.2	167	mg/L	2.2	1.35%
Sr 407.771†	12695.4	0.0118	mg/L	0.00086	0.0118	mg/L	0.00086	7.33%
Li 670.784†	589.9	0.00829	mg/L	0.002326	0.00829	mg/L	0.002326	28.05%

Sequence No.: 60 **Autosampler Location: 144**
Sample ID: L1102038701 **Date Collected: 2/18/2011 10:25:40 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102038701

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102038701

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4991391.3						60721.52	1.22%
YRADIAL	309444.6						4891.81	1.58%
Ga 417.206	1183316.6						22845.65	1.93%
GaRADIAL	58587.5						315.79	0.54%
Ag 328.068†	353.2	0.00212	mg/L	0.000272	0.00212	mg/L	0.000272	12.82%
Al 396.153†	476.8	0.0886	mg/L	0.00634	0.0886	mg/L	0.00634	7.15%

As 188.979†	9.1	0.00672 mg/L	0.002285	0.00672 mg/L	0.002285	33.99%
Ba 233.527†	5608.7	0.0947 mg/L	0.00109	0.0947 mg/L	0.00109	1.15%
Be 234.861†	-221.1	-0.00042 mg/L	0.000020	-0.00042 mg/L	0.000020	4.84%
B 249.677†	2054.5	0.0409 mg/L	0.00116	0.0409 mg/L	0.00116	2.83%
Ca 227.546†	8848.7	83.3 mg/L	1.47	83.3 mg/L	1.47	1.76%
Cd 228.802†	448.6	0.0249 mg/L	0.00044	0.0249 mg/L	0.00044	1.76%
Co 228.616†	1.8	0.00019 mg/L	0.000238	0.00019 mg/L	0.000238	127.35%
Cr 267.716†	58.5	0.00007 mg/L	0.000168	0.00007 mg/L	0.000168	236.73%
Cu 327.393†	448.8	0.00295 mg/L	0.001179	0.00295 mg/L	0.001179	39.93%
Fe 239.562†	109.2	0.233 mg/L	0.0046	0.233 mg/L	0.0046	1.99%
Mg 279.077†	1164.8	1.41 mg/L	0.021	1.41 mg/L	0.021	1.51%
Mn 257.610†	36589.0	0.0841 mg/L	0.00108	0.0841 mg/L	0.00108	1.28%
Mo 202.031†	2.9	0.00031 mg/L	0.000274	0.00031 mg/L	0.000274	88.10%
Ni 231.604†	40.1	0.00119 mg/L	0.000239	0.00119 mg/L	0.000239	20.08%
Pb 220.353†	10.5	0.00577 mg/L	0.000440	0.00577 mg/L	0.000440	7.62%
Sb 206.836†	13.6	0.00984 mg/L	0.001601	0.00984 mg/L	0.001601	16.27%
Se 196.026†	-35.2	-0.00691 mg/L	0.001741	-0.00691 mg/L	0.001741	25.19%
Si 251.611†	17112.6	0.500 mg/L	0.0008	0.500 mg/L	0.0008	0.17%
Sn 189.927†	30.5	0.00442 mg/L	0.000488	0.00442 mg/L	0.000488	11.05%
Ti 334.940†	1651.0	0.00307 mg/L	0.000070	0.00307 mg/L	0.000070	2.29%
Tl 190.801†	98.7	0.0515 mg/L	0.00185	0.0515 mg/L	0.00185	3.60%
V 290.880†	-201.3	-0.00010 mg/L	0.001352	-0.00010 mg/L	0.001352	>999.9%
Zn 206.200†	57780.3	1.75 mg/L	0.020	1.75 mg/L	0.020	1.14%
K 766.490†	2411.4	0.765 mg/L	0.0155	0.765 mg/L	0.0155	2.03%
Na 589.592†	2107989.7	166 mg/L	1.8	166 mg/L	1.8	1.07%
Sr 407.771†	216225.0	0.212 mg/L	0.0142	0.212 mg/L	0.0142	6.73%
Li 670.784†	82.7	0.00198 mg/L	0.000085	0.00198 mg/L	0.000085	4.29%

Sequence No.: 61 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/18/2011 10:32:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4994175.9						53030.73	1.06%
YRADIAL	310993.8						2837.08	0.91%
Ga 417.206	1187770.2						12044.41	1.01%
GaRADIAL	59455.3						929.72	1.56%
Ag 328.068†	89987.1	0.448	mg/L	0.0045	0.448	mg/L	0.0045	1.01%
QC value greater than the upper limit for Ag 328.068 Recovery = 112.06%								
Al 396.153†	57122.4	11.4	mg/L	0.06	11.4	mg/L	0.06	0.49%
QC value greater than the upper limit for Al 396.153 Recovery = 114.30%								
As 188.979†	499.1	0.453	mg/L	0.0053	0.453	mg/L	0.0053	1.17%
QC value greater than the upper limit for As 188.979 Recovery = 113.25%								
Ba 233.527†	55465.0	0.941	mg/L	0.0067	0.941	mg/L	0.0067	0.71%
QC value within limits for Ba 233.527 Recovery = 94.12%								
Be 234.861†	33554.9	0.0578	mg/L	0.00070	0.0578	mg/L	0.00070	1.21%
QC value greater than the upper limit for Be 234.861 Recovery = 115.57%								
B 249.677†	29376.9	0.561	mg/L	0.0050	0.561	mg/L	0.0050	0.89%
QC value greater than the upper limit for B 249.677 Recovery = 112.12%								
Ca 227.546†	1162.5	11.2	mg/L	0.19	11.2	mg/L	0.19	1.68%
QC value greater than the upper limit for Ca 227.546 Recovery = 112.04%								
Cd 228.802†	989.5	0.0540	mg/L	0.00079	0.0540	mg/L	0.00079	1.45%
QC value within limits for Cd 228.802 Recovery = 108.09%								
Co 228.616†	3630.9	0.184	mg/L	0.0024	0.184	mg/L	0.0024	1.32%
QC value within limits for Co 228.616 Recovery = 91.98%								
Cr 267.716†	52865.3	0.467	mg/L	0.0044	0.467	mg/L	0.0044	0.94%
QC value within limits for Cr 267.716 Recovery = 93.38%								
Cu 327.393†	81529.0	0.567	mg/L	0.0053	0.567	mg/L	0.0053	0.94%
QC value greater than the upper limit for Cu 327.393 Recovery = 113.39%								
Fe 239.562†	1698.6	3.68	mg/L	0.056	3.68	mg/L	0.056	1.51%
QC value within limits for Fe 239.562 Recovery = 91.95%								
Mg 279.077†	7613.3	9.27	mg/L	0.094	9.27	mg/L	0.094	1.02%

QC value within limits for Mg 279.077 Recovery = 92.68%
Mn 257.610† 208839.3 0.476 mg/L 0.0031 0.476 mg/L 0.0031 0.65%
QC value within limits for Mn 257.610 Recovery = 95.12%
Mo 202.031† 12623.9 0.944 mg/L 0.0088 0.944 mg/L 0.0088 0.93%
QC value within limits for Mo 202.031 Recovery = 94.42%
Ni 231.604† 16065.6 0.468 mg/L 0.0045 0.468 mg/L 0.0045 0.97%
QC value within limits for Ni 231.604 Recovery = 93.51%
Pb 220.353† 2802.5 0.478 mg/L 0.0045 0.478 mg/L 0.0045 0.95%
QC value within limits for Pb 220.353 Recovery = 95.60%
Sb 206.836† 2171.6 1.40 mg/L 0.016 1.40 mg/L 0.016 1.12%
QC value greater than the upper limit for Sb 206.836 Recovery = 116.28%
Se 196.026† 625.5 0.448 mg/L 0.0080 0.448 mg/L 0.0080 1.78%
QC value greater than the upper limit for Se 196.026 Recovery = 112.02%
Si 251.611† 193064.7 5.63 mg/L 0.056 5.63 mg/L 0.056 0.99%
QC value greater than the upper limit for Si 251.611 Recovery = 112.66%
Sn 189.927† 5454.1 0.940 mg/L 0.0124 0.940 mg/L 0.0124 1.31%
QC value within limits for Sn 189.927 Recovery = 94.05%
Ti 334.940† 691623.9 0.951 mg/L 0.0032 0.951 mg/L 0.0032 0.34%
QC value within limits for Ti 334.940 Recovery = 95.10%
Tl 190.801† 799.7 0.484 mg/L 0.0052 0.484 mg/L 0.0052 1.08%
QC value within limits for Tl 190.801 Recovery = 96.83%
V 290.880† 138042.3 0.925 mg/L 0.0065 0.925 mg/L 0.0065 0.71%
QC value within limits for V 290.880 Recovery = 92.46%
Zn 206.200† 31127.1 0.944 mg/L 0.0038 0.944 mg/L 0.0038 0.40%
QC value within limits for Zn 206.200 Recovery = 94.44%
K 766.490† 143568.6 55.2 mg/L 0.63 55.2 mg/L 0.63 1.13%
QC value greater than the upper limit for K 766.490 Recovery = 110.48%
Na 589.592† 756827.0 56.2 mg/L 0.37 56.2 mg/L 0.37 0.66%
QC value greater than the upper limit for Na 589.592 Recovery = 112.40%
Sr 407.771† 824710.5 0.807 mg/L 0.0810 0.807 mg/L 0.0810 10.03%
QC value less than the lower limit for Sr 407.771 Recovery = 80.74%
Li 670.784† 89245.2 1.11 mg/L 0.006 1.11 mg/L 0.006 0.57%
QC value greater than the upper limit for Li 670.784 Recovery = 111.24%
QC Failed. Continue with analysis.

Sequence No.: 62 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/18/2011 10:39:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	5175958.3						120652.74	2.33%
YRADIAL	320531.7						4508.75	1.41%
Ga 417.206	1235142.8						23172.65	1.88%
GaRADIAL	60954.6						280.46	0.46%
Ag 328.068†	-29.3	0.00028	mg/L	0.001167	0.00028	mg/L	0.001167	413.86%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	10.8	-0.00482	mg/L	0.004142	-0.00482	mg/L	0.004142	85.85%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	4.6	0.00427	mg/L	0.002166	0.00427	mg/L	0.002166	50.74%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	2.7	-0.00015	mg/L	0.000121	-0.00015	mg/L	0.000121	80.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-128.4	-0.00023	mg/L	0.000017	-0.00023	mg/L	0.000017	7.67%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	110.5	0.00375	mg/L	0.000092	0.00375	mg/L	0.000092	2.45%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-0.8	-0.0604	mg/L	0.04486	-0.0604	mg/L	0.04486	74.33%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	4.4	0.00036	mg/L	0.000031	0.00036	mg/L	0.000031	8.62%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	4.5	0.00037	mg/L	0.000305	0.00037	mg/L	0.000305	82.42%
QC value within limits for Co 228.616 Recovery = Not calculated								

Cr 267.716†	-10.3	-0.00057 mg/L	0.000108	-0.00057 mg/L	0.000108	19.00%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-68.0	-0.00077 mg/L	0.000307	-0.00077 mg/L	0.000307	39.77%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 239.562†	0.5	-0.00271 mg/L	0.005026	-0.00271 mg/L	0.005026	185.19%
QC value within limits for Fe 239.562 Recovery = Not calculated						
Mg 279.077†	-9.3	-0.0150 mg/L	0.00437	-0.0150 mg/L	0.00437	29.12%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-6.4	-0.00028 mg/L	0.000011	-0.00028 mg/L	0.000011	3.91%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	1.7	0.00019 mg/L	0.000506	0.00019 mg/L	0.000506	267.38%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	-9.9	-0.00023 mg/L	0.000070	-0.00023 mg/L	0.000070	30.43%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-5.1	-0.00084 mg/L	0.000888	-0.00084 mg/L	0.000888	105.20%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-3.0	-0.00077 mg/L	0.002131	-0.00077 mg/L	0.002131	276.32%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.3	-0.00093 mg/L	0.000994	-0.00093 mg/L	0.000994	106.55%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	84.4	0.00198 mg/L	0.000305	0.00198 mg/L	0.000305	15.42%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	2.5	-0.00042 mg/L	0.000279	-0.00042 mg/L	0.000279	65.91%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	201.6	0.00024 mg/L	0.000192	0.00024 mg/L	0.000192	80.14%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-3.8	-0.00178 mg/L	0.001268	-0.00178 mg/L	0.001268	71.13%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 290.880†	-402.8	-0.00147 mg/L	0.001366	-0.00147 mg/L	0.001366	93.13%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	8.5	-0.00010 mg/L	0.000087	-0.00010 mg/L	0.000087	89.99%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490†	144.0	0.0727 mg/L	0.02360	0.0727 mg/L	0.02360	32.46%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592†	383.8	0.0308 mg/L	0.01372	0.0308 mg/L	0.01372	44.55%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771†	88.8	-0.00019 mg/L	0.000044	-0.00019 mg/L	0.000044	23.32%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Li 670.784†	-55.2	0.00026 mg/L	0.002432	0.00026 mg/L	0.002432	940.97%
QC value within limits for Li 670.784 Recovery = Not calculated						

All analyte(s) passed QC.

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Sequence No.: 63 **Autosampler Location: 145**
Sample ID: L1102043801 WG356954-01 **Date Collected: 2/18/2011 10:45:52 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043801 WG356954-01

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102043801 WG356954-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5035025.8						29111.55	0.58%
YRADIAL	307163.5						6465.76	2.10%
Ga 417.206	1200471.7						8637.79	0.72%
GaRADIAL	58685.7						582.66	0.99%
Ag 328.068†	-30.0	0.00014	mg/L	0.000830	0.00014	mg/L	0.000830	588.96%
Al 396.153†	631.3	0.120	mg/L	0.0092	0.120	mg/L	0.0092	7.70%
As 188.979†	0.5	0.00044	mg/L	0.002145	0.00044	mg/L	0.002145	492.19%
Ba 233.527†	2306.8	0.0388	mg/L	0.00014	0.0388	mg/L	0.00014	0.35%
Be 234.861†	28.5	-0.00035	mg/L	0.000061	-0.00035	mg/L	0.000061	17.37%
B 249.677†	67369.4	1.29	mg/L	0.023	1.29	mg/L	0.023	1.80%
Ca 227.546†	1392.2	13.1	mg/L	0.08	13.1	mg/L	0.08	0.63%
Cd 228.802†	23.2	0.00144	mg/L	0.000082	0.00144	mg/L	0.000082	5.70%
Co 228.616†	23.7	0.00128	mg/L	0.000202	0.00128	mg/L	0.000202	15.78%
Cr 267.716†	99.6	0.00732	mg/L	0.000039	0.00732	mg/L	0.000039	0.54%
Cu 327.393†	21.0	0.0107	mg/L	0.00047	0.0107	mg/L	0.00047	4.38%

Fe 239.562†	974.9	2.11 mg/L	0.017	2.11 mg/L	0.017	0.82%
Mg 279.077†	49229.6	59.9 mg/L	0.37	59.9 mg/L	0.37	0.61%
Mn 257.610†	27158.8	0.0703 mg/L	0.00108	0.0703 mg/L	0.00108	1.54%
Mo 202.031†	218.9	0.0165 mg/L	0.00081	0.0165 mg/L	0.00081	4.92%
Ni 231.604†	35.4	0.00108 mg/L	0.000258	0.00108 mg/L	0.000258	23.92%
Pb 220.353†	1.3	0.00085 mg/L	0.001678	0.00085 mg/L	0.001678	197.58%
Sb 206.836†	73.7	0.0485 mg/L	0.00098	0.0485 mg/L	0.00098	2.02%
Se 196.026†	-14.9	-0.00923 mg/L	0.004574	-0.00923 mg/L	0.004574	49.53%
Si 251.611†	22534.4	0.658 mg/L	0.0129	0.658 mg/L	0.0129	1.96%
Sn 189.927†	26.4	0.00370 mg/L	0.000202	0.00370 mg/L	0.000202	5.45%
Ti 334.940†	1370.4	0.00198 mg/L	0.000134	0.00198 mg/L	0.000134	6.77%
Tl 190.801†	27.5	0.0156 mg/L	0.00157	0.0156 mg/L	0.00157	10.04%
V 290.880†	-1882.4	-0.0112 mg/L	0.00096	-0.0112 mg/L	0.00096	8.52%
Zn 206.200†	5741037.3	174 mg/L	1.0	174 mg/L	1.0	0.56%
K 766.490†	25129.1	9.55 mg/L	0.045	9.55 mg/L	0.045	0.47%
Na 589.592†	133006.1	9.65 mg/L	0.052	9.65 mg/L	0.052	0.54%
Sr 407.771†	32227.5	0.0310 mg/L	0.00324	0.0310 mg/L	0.00324	10.43%
Li 670.784†	244.9	0.00400 mg/L	0.000753	0.00400 mg/L	0.000753	18.84%

Sequence No.: 64 **Autosampler Location: 146**
Sample ID: L1102043801S WG356954-04 **Date Collected: 2/18/2011 10:52:35 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043801S WG356954-04

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102043801S WG356954-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	4935983.6						51886.06	1.05%
YRADIAL	309802.9						8650.59	2.79%
Ga 417.206	1186431.4						27080.61	2.28%
GaRADIAL	59229.7						2245.35	3.79%
Ag 328.068†	44750.4	0.223	mg/L	0.0046	0.223	mg/L	0.0046	2.08%
Al 396.153†	29482.8	5.90	mg/L	0.018	5.90	mg/L	0.018	0.31%
As 188.979†	245.5	0.223	mg/L	0.0028	0.223	mg/L	0.0028	1.24%
Ba 233.527†	29947.9	0.508	mg/L	0.0044	0.508	mg/L	0.0044	0.87%
Be 234.861†	16275.1	0.0277	mg/L	0.00062	0.0277	mg/L	0.00062	2.24%
B 249.677†	125577.0	2.39	mg/L	0.044	2.39	mg/L	0.044	1.86%
Ca 227.546†	2015.9	19.1	mg/L	0.30	19.1	mg/L	0.30	1.56%
Cd 228.802†	501.6	0.0275	mg/L	0.00054	0.0275	mg/L	0.00054	1.98%
Co 228.616†	1779.4	0.0901	mg/L	0.00100	0.0901	mg/L	0.00100	1.11%
Cr 267.716†	26841.7	0.244	mg/L	0.0023	0.244	mg/L	0.0023	0.96%
Cu 327.393†	40330.7	0.291	mg/L	0.0062	0.291	mg/L	0.0062	2.13%
Fe 239.562†	1835.4	3.97	mg/L	0.158	3.97	mg/L	0.158	3.97%
Mg 279.077†	52441.2	63.8	mg/L	0.78	63.8	mg/L	0.78	1.23%
Mn 257.610†	135163.9	0.316	mg/L	0.0030	0.316	mg/L	0.0030	0.96%
Mo 202.031†	6719.9	0.503	mg/L	0.0052	0.503	mg/L	0.0052	1.04%
Ni 231.604†	7909.6	0.230	mg/L	0.0027	0.230	mg/L	0.0027	1.16%
Pb 220.353†	1384.9	0.237	mg/L	0.0016	0.237	mg/L	0.0016	0.66%
Sb 206.836†	1131.6	0.728	mg/L	0.0182	0.728	mg/L	0.0182	2.51%
Se 196.026†	290.7	0.211	mg/L	0.0087	0.211	mg/L	0.0087	4.11%
Si 251.611†	125138.2	3.65	mg/L	0.079	3.65	mg/L	0.079	2.17%
Sn 189.927†	25.8	0.00360	mg/L	0.000859	0.00360	mg/L	0.000859	23.85%
Ti 334.940†	351888.8	0.484	mg/L	0.0040	0.484	mg/L	0.0040	0.83%
Tl 190.801†	418.4	0.252	mg/L	0.0038	0.252	mg/L	0.0038	1.52%
V 290.880†	69011.8	0.463	mg/L	0.0043	0.463	mg/L	0.0043	0.93%
Zn 206.200†	5747763.4	174	mg/L	1.6	174	mg/L	1.6	0.89%
K 766.490†	95729.6	36.6	mg/L	0.13	36.6	mg/L	0.13	0.36%
Na 589.592†	506579.4	37.2	mg/L	0.18	37.2	mg/L	0.18	0.48%
Sr 407.771†	444289.5	0.435	mg/L	0.0374	0.435	mg/L	0.0374	8.60%
Li 670.784†	44488.8	0.555	mg/L	0.0032	0.555	mg/L	0.0032	0.59%

Sequence No.: 65 **Autosampler Location: 147**
Sample ID: L1102043801SD WG356954-05 **Date Collected: 2/18/2011 10:59:18 PM**
Analyst: PDM **Data Type: Original**

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043801SD WG356954-05

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102043801SD WG356954-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4951451.8						47085.81	0.95%
YRADIAL	310543.7						6280.43	2.02%
Ga 417.206	1193025.1						2941.22	0.25%
GaRADIAL	58978.1						1240.22	2.10%
Ag 328.068†	44278.9	0.221	mg/L	0.0007	0.221	mg/L	0.0007	0.34%
Al 396.153†	29323.0	5.86	mg/L	0.038	5.86	mg/L	0.038	0.65%
As 188.979†	242.8	0.220	mg/L	0.0058	0.220	mg/L	0.0058	2.64%
Ba 233.527†	29727.0	0.504	mg/L	0.0054	0.504	mg/L	0.0054	1.06%
Be 234.861†	16188.9	0.0275	mg/L	0.00011	0.0275	mg/L	0.00011	0.40%
B 249.677†	124805.7	2.37	mg/L	0.010	2.37	mg/L	0.010	0.43%
Ca 227.546†	1986.1	18.8	mg/L	0.06	18.8	mg/L	0.06	0.32%
Cd 228.802†	491.5	0.0269	mg/L	0.00021	0.0269	mg/L	0.00021	0.77%
Co 228.616†	1767.9	0.0895	mg/L	0.00036	0.0895	mg/L	0.00036	0.41%
Cr 267.716†	26749.2	0.243	mg/L	0.0022	0.243	mg/L	0.0022	0.90%
Cu 327.393†	40287.6	0.291	mg/L	0.0011	0.291	mg/L	0.0011	0.38%
Fe 239.562†	1807.6	3.91	mg/L	0.049	3.91	mg/L	0.049	1.26%
Mg 279.077†	52336.3	63.7	mg/L	0.12	63.7	mg/L	0.12	0.19%
Mn 257.610†	132175.1	0.310	mg/L	0.0034	0.310	mg/L	0.0034	1.10%
Mo 202.031†	6670.0	0.499	mg/L	0.0032	0.499	mg/L	0.0032	0.63%
Ni 231.604†	7833.6	0.228	mg/L	0.0015	0.228	mg/L	0.0015	0.64%
Pb 220.353†	1365.9	0.234	mg/L	0.0022	0.234	mg/L	0.0022	0.96%
Sb 206.836†	1119.3	0.720	mg/L	0.0041	0.720	mg/L	0.0041	0.56%
Se 196.026†	288.3	0.209	mg/L	0.0058	0.209	mg/L	0.0058	2.78%
Si 251.611†	125652.3	3.67	mg/L	0.013	3.67	mg/L	0.013	0.35%
Sn 189.927†	24.1	0.00332	mg/L	0.001037	0.00332	mg/L	0.001037	31.27%
Ti 334.940†	355973.4	0.490	mg/L	0.0061	0.490	mg/L	0.0061	1.24%
Tl 190.801†	419.0	0.253	mg/L	0.0011	0.253	mg/L	0.0011	0.44%
V 290.880†	68453.8	0.459	mg/L	0.0043	0.459	mg/L	0.0043	0.94%
Zn 206.200†	5728296.7	173	mg/L	1.6	173	mg/L	1.6	0.95%
K 766.490†	95656.0	36.6	mg/L	0.18	36.6	mg/L	0.18	0.49%
Na 589.592†	506989.8	37.3	mg/L	0.67	37.3	mg/L	0.67	1.81%
Sr 407.771†	444127.0	0.434	mg/L	0.0489	0.434	mg/L	0.0489	11.27%
Li 670.784†	44396.6	0.554	mg/L	0.0058	0.554	mg/L	0.0058	1.05%

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Sequence No.: 66 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 2/18/2011 11:06:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4965638.7						39446.39	0.79%
YRADIAL	313627.3						4029.43	1.28%
Ga 417.206	1187546.0						15472.47	1.30%
GaRADIAL	60015.3						648.05	1.08%
Ag 328.068†	90057.3	0.449	mg/L	0.0066	0.449	mg/L	0.0066	1.48%
Al 396.153†	56711.6	11.3	mg/L	0.04	11.3	mg/L	0.04	0.37%
As 188.979†	502.1	0.456	mg/L	0.0062	0.456	mg/L	0.0062	1.37%
Ba 233.527†	55803.1	0.947	mg/L	0.0118	0.947	mg/L	0.0118	1.25%
Be 234.861†	33537.9	0.0578	mg/L	0.00104	0.0578	mg/L	0.00104	1.80%
B 249.677†	30234.0	0.577	mg/L	0.0091	0.577	mg/L	0.0091	1.58%
Ca 227.546†	1154.5	11.1	mg/L	0.22	11.1	mg/L	0.22	2.02%

Cd 228.802†	988.1	0.0539 mg/L	0.00053	0.0539 mg/L	0.00053	0.98%
Co 228.616†	3633.9	0.184 mg/L	0.0015	0.184 mg/L	0.0015	0.82%
Cr 267.716†	53250.2	0.470 mg/L	0.0058	0.470 mg/L	0.0058	1.23%
Cu 327.393†	81852.4	0.569 mg/L	0.0067	0.569 mg/L	0.0067	1.18%
Fe 239.562†	1667.6	3.61 mg/L	0.025	3.61 mg/L	0.025	0.70%
Mg 279.077†	7483.0	9.11 mg/L	0.009	9.11 mg/L	0.009	0.10%
Mn 257.610†	210295.7	0.479 mg/L	0.0055	0.479 mg/L	0.0055	1.15%
Mo 202.031†	12695.6	0.950 mg/L	0.0080	0.950 mg/L	0.0080	0.85%
Ni 231.604†	16128.2	0.469 mg/L	0.0039	0.469 mg/L	0.0039	0.84%
Pb 220.353†	2801.8	0.478 mg/L	0.0063	0.478 mg/L	0.0063	1.32%
Sb 206.836†	2153.0	1.38 mg/L	0.022	1.38 mg/L	0.022	1.56%
Se 196.026†	622.0	0.446 mg/L	0.0058	0.446 mg/L	0.0058	1.29%
Si 251.611†	193879.4	5.66 mg/L	0.086	5.66 mg/L	0.086	1.53%
Sn 189.927†	5455.3	0.941 mg/L	0.0085	0.941 mg/L	0.0085	0.91%
Ti 334.940†	688452.4	0.947 mg/L	0.0017	0.947 mg/L	0.0017	0.18%
Tl 190.801†	813.6	0.492 mg/L	0.0053	0.492 mg/L	0.0053	1.08%
V 290.880†	139345.8	0.933 mg/L	0.0106	0.933 mg/L	0.0106	1.14%
Zn 206.200†	32574.7	0.988 mg/L	0.0155	0.988 mg/L	0.0155	1.57%
K 766.490†	142633.1	54.9 mg/L	0.47	54.9 mg/L	0.47	0.86%
Na 589.592†	753998.2	56.0 mg/L	0.71	56.0 mg/L	0.71	1.28%
Sr 407.771†	833560.6	0.816 mg/L	0.0770	0.816 mg/L	0.0770	9.43%
Li 670.784†	88518.5	1.10 mg/L	0.008	1.10 mg/L	0.008	0.70%

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Sequence No.: 67 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 2/18/2011 11:12:47 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5190178.6						23088.82	0.44%
YRADIAL	321769.9						5723.40	1.78%
Ga 417.206	1232348.1						12609.75	1.02%
GaRADIAL	61266.9						1814.33	2.96%
Ag 328.068†	-23.0	0.00031	mg/L	0.000976	0.00031	mg/L	0.000976	311.28%
Al 396.153†	25.8	-0.00182	mg/L	0.008335	-0.00182	mg/L	0.008335	458.98%
As 188.979†	0.9	0.00086	mg/L	0.004696	0.00086	mg/L	0.004696	545.51%
Ba 233.527†	8.4	-0.00005	mg/L	0.000027	-0.00005	mg/L	0.000027	50.26%
Be 234.861†	-125.0	-0.00022	mg/L	0.000033	-0.00022	mg/L	0.000033	14.89%
B 249.677†	622.8	0.0135	mg/L	0.00158	0.0135	mg/L	0.00158	11.76%
Ca 227.546†	-4.8	-0.0979	mg/L	0.01575	-0.0979	mg/L	0.01575	16.09%
Cd 228.802†	5.1	0.00042	mg/L	0.000107	0.00042	mg/L	0.000107	25.47%
Co 228.616†	4.9	0.00039	mg/L	0.000329	0.00039	mg/L	0.000329	84.25%
Cr 267.716†	-10.1	-0.00057	mg/L	0.000052	-0.00057	mg/L	0.000052	9.07%
Cu 327.393†	-29.2	-0.00050	mg/L	0.001188	-0.00050	mg/L	0.001188	237.11%
Fe 239.562†	2.2	0.00087	mg/L	0.000315	0.00087	mg/L	0.000315	36.38%
Mg 279.077†	-7.8	-0.0133	mg/L	0.00492	-0.0133	mg/L	0.00492	37.14%
Mn 257.610†	5.3	-0.00025	mg/L	0.000018	-0.00025	mg/L	0.000018	7.20%
Mo 202.031†	-2.3	-0.00011	mg/L	0.000368	-0.00011	mg/L	0.000368	349.64%
Ni 231.604†	-7.8	-0.00017	mg/L	0.000057	-0.00017	mg/L	0.000057	32.98%
Pb 220.353†	-7.0	-0.00116	mg/L	0.000245	-0.00116	mg/L	0.000245	21.01%
Sb 206.836†	1.2	0.00191	mg/L	0.002377	0.00191	mg/L	0.002377	124.71%
Se 196.026†	-1.0	-0.00327	mg/L	0.006980	-0.00327	mg/L	0.006980	213.18%
Si 251.611†	115.5	0.00289	mg/L	0.000402	0.00289	mg/L	0.000402	13.90%
Sn 189.927†	2.1	-0.00049	mg/L	0.000768	-0.00049	mg/L	0.000768	156.54%
Ti 334.940†	197.8	0.00023	mg/L	0.000179	0.00023	mg/L	0.000179	76.56%
Tl 190.801†	4.7	0.00323	mg/L	0.000607	0.00323	mg/L	0.000607	18.79%
V 290.880†	-383.5	-0.00134	mg/L	0.000886	-0.00134	mg/L	0.000886	66.32%
Zn 206.200†	450.3	0.0133	mg/L	0.00070	0.0133	mg/L	0.00070	5.27%
K 766.490†	207.5	0.0967	mg/L	0.03639	0.0967	mg/L	0.03639	37.61%
Na 589.592†	-264.9	-0.0160	mg/L	0.01008	-0.0160	mg/L	0.01008	63.01%
Sr 407.771†	65.5	-0.00021	mg/L	0.000057	-0.00021	mg/L	0.000057	26.94%
Li 670.784†	-15.9	0.00075	mg/L	0.001483	0.00075	mg/L	0.001483	198.26%

Sequence No.: 68 **Autosampler Location:** 94
Sample ID: L1102040202 **Date Collected:** 2/18/2011 11:19:27 PM
Analyst: PDM **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040202

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102040202

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5293400.1						69937.77	1.32%
YRADIAL	328928.2						2293.41	0.70%
Ga 417.206	1306670.9						28477.06	2.18%
GaRADIAL	63743.1						881.19	1.38%
Ag 328.068†	37.3	0.00060	mg/L	0.000397	0.00060	mg/L	0.000397	66.13%
Al 396.153†	866.9	0.167	mg/L	0.0140	0.167	mg/L	0.0140	8.41%
As 188.979†	1.4	0.00130	mg/L	0.000640	0.00130	mg/L	0.000640	49.10%
Ba 233.527†	564.6	0.00936	mg/L	0.000115	0.00936	mg/L	0.000115	1.23%
Be 234.861†	-67.1	-0.00015	mg/L	0.000039	-0.00015	mg/L	0.000039	25.29%
B 249.677†	698.5	0.0155	mg/L	0.00049	0.0155	mg/L	0.00049	3.17%
Ca 227.546†	201.5	1.83	mg/L	0.037	1.83	mg/L	0.037	2.00%
Cd 228.802†	0.5	0.00017	mg/L	0.000204	0.00017	mg/L	0.000204	122.43%
Co 228.616†	9.9	0.00063	mg/L	0.000124	0.00063	mg/L	0.000124	19.64%
Cr 267.716†	50.6	-0.00004	mg/L	0.000091	-0.00004	mg/L	0.000091	223.38%
Cu 327.393†	112.2	0.00050	mg/L	0.000731	0.00050	mg/L	0.000731	145.96%
Fe 239.562†	78.2	0.166	mg/L	0.0056	0.166	mg/L	0.0056	3.36%
Mg 279.077†	608.2	0.737	mg/L	0.0064	0.737	mg/L	0.0064	0.86%
Mn 257.610†	5321.5	0.0127	mg/L	0.00012	0.0127	mg/L	0.00012	0.95%
Mo 202.031†	3.0	0.00030	mg/L	0.000219	0.00030	mg/L	0.000219	73.05%
Ni 231.604†	19.4	0.00062	mg/L	0.000135	0.00062	mg/L	0.000135	21.82%
Pb 220.353†	-8.7	-0.00137	mg/L	0.000942	-0.00137	mg/L	0.000942	68.99%
Sb 206.836†	-2.5	-0.00043	mg/L	0.001076	-0.00043	mg/L	0.001076	252.01%
Se 196.026†	-1.7	-0.00330	mg/L	0.003290	-0.00330	mg/L	0.003290	99.81%
Si 251.611†	168695.4	4.93	mg/L	0.128	4.93	mg/L	0.128	2.58%
Sn 189.927†	5.2	0.00005	mg/L	0.000388	0.00005	mg/L	0.000388	737.94%
Ti 334.940†	1988.0	0.00271	mg/L	0.000191	0.00271	mg/L	0.000191	7.03%
Tl 190.801†	9.1	0.00572	mg/L	0.002845	0.00572	mg/L	0.002845	49.73%
V 290.880†	-424.8	-0.00160	mg/L	0.001824	-0.00160	mg/L	0.001824	113.95%
Zn 206.200†	317.7	0.00927	mg/L	0.000317	0.00927	mg/L	0.000317	3.43%
K 766.490†	1205.9	0.473	mg/L	0.0403	0.473	mg/L	0.0403	8.51%
Na 589.592†	24507.2	1.77	mg/L	0.034	1.77	mg/L	0.034	1.90%
Sr 407.771†	10061.1	0.00956	mg/L	0.000746	0.00956	mg/L	0.000746	7.80%
Li 670.784†	68.8	0.00180	mg/L	0.000851	0.00180	mg/L	0.000851	47.22%

Sequence No.: 69 **Autosampler Location:** 95
Sample ID: L1102040207 WG356765-01 **Date Collected:** 2/18/2011 11:26:14 PM
Analyst: PDM **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040207 WG356765-01

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040207 WG356765-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5227475.7						17128.19	0.33%
YRADIAL	339979.4						4438.02	1.31%
Ga 417.206	1297848.4						5623.76	0.43%
GaRADIAL	65060.0						1407.89	2.16%
Ag 328.068†	26.3	0.00055	mg/L	0.000440	0.00055	mg/L	0.000440	80.15%
Al 396.153†	697.3	0.133	mg/L	0.0077	0.133	mg/L	0.0077	5.82%
As 188.979†	-0.5	-0.00049	mg/L	0.002509	-0.00049	mg/L	0.002509	507.41%

Ba 233.527†	506.4	0.00838 mg/L	0.000105	0.00838 mg/L	0.000105	1.25%
Be 234.861†	-74.6	-0.00016 mg/L	0.000024	-0.00016 mg/L	0.000024	15.17%
B 249.677†	682.8	0.0151 mg/L	0.00129	0.0151 mg/L	0.00129	8.57%
Ca 227.546†	183.2	1.66 mg/L	0.033	1.66 mg/L	0.033	1.97%
Cd 228.802†	4.0	0.00037 mg/L	0.000057	0.00037 mg/L	0.000057	15.50%
Co 228.616†	6.4	0.00046 mg/L	0.000092	0.00046 mg/L	0.000092	20.07%
Cr 267.716†	71.0	0.00014 mg/L	0.000161	0.00014 mg/L	0.000161	114.30%
Cu 327.393†	73.3	0.00023 mg/L	0.001012	0.00023 mg/L	0.001012	444.02%
Fe 239.562†	65.6	0.138 mg/L	0.0022	0.138 mg/L	0.0022	1.57%
Mg 279.077†	633.3	0.767 mg/L	0.0065	0.767 mg/L	0.0065	0.85%
Mn 257.610†	4818.7	0.0116 mg/L	0.00007	0.0116 mg/L	0.00007	0.58%
Mo 202.031†	4.0	0.00037 mg/L	0.000298	0.00037 mg/L	0.000298	80.35%
Ni 231.604†	12.3	0.00041 mg/L	0.000130	0.00041 mg/L	0.000130	31.71%
Pb 220.353†	-3.0	-0.00040 mg/L	0.000763	-0.00040 mg/L	0.000763	189.56%
Sb 206.836†	-1.7	0.00006 mg/L	0.000247	0.00006 mg/L	0.000247	403.31%
Se 196.026†	-3.2	-0.00439 mg/L	0.003368	-0.00439 mg/L	0.003368	76.76%
Si 251.611†	180065.1	5.27 mg/L	0.077	5.27 mg/L	0.077	1.46%
Sn 189.927†	3.8	-0.00020 mg/L	0.000739	-0.00020 mg/L	0.000739	370.21%
Ti 334.940†	1747.5	0.00238 mg/L	0.000298	0.00238 mg/L	0.000298	12.53%
Tl 190.801†	11.3	0.00700 mg/L	0.001976	0.00700 mg/L	0.001976	28.24%
V 290.880†	-280.4	-0.00064 mg/L	0.000643	-0.00064 mg/L	0.000643	101.06%
Zn 206.200†	225.7	0.00648 mg/L	0.000209	0.00648 mg/L	0.000209	3.23%
K 766.490†	1059.3	0.417 mg/L	0.0210	0.417 mg/L	0.0210	5.02%
Na 589.592†	26364.1	1.91 mg/L	0.036	1.91 mg/L	0.036	1.89%
Sr 407.771†	10211.1	0.00971 mg/L	0.000868	0.00971 mg/L	0.000868	8.94%
Li 670.784†	-10.8	0.00081 mg/L	0.001710	0.00081 mg/L	0.001710	210.64%

Sequence No.: 70 **Autosampler Location: 96**
Sample ID: L1102040208S WG356765-04 **Date Collected: 2/18/2011 11:32:55 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040208S WG356765-04

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040208S WG356765-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5117729.7						34666.27	0.68%
YRADIAL	329210.2						5936.67	1.80%
Ga 417.206	1263509.3						8350.98	0.66%
GaRADIAL	62446.1						344.74	0.55%
Ag 328.068†	44171.6	0.220	mg/L	0.0048	0.220	mg/L	0.0048	2.18%
Al 396.153†	29563.0	5.91	mg/L	0.014	5.91	mg/L	0.014	0.23%
As 188.979†	235.0	0.213	mg/L	0.0050	0.213	mg/L	0.0050	2.36%
Ba 233.527†	28613.1	0.485	mg/L	0.0113	0.485	mg/L	0.0113	2.33%
Be 234.861†	16444.2	0.0283	mg/L	0.00081	0.0283	mg/L	0.00081	2.88%
B 249.677†	58648.8	1.11	mg/L	0.024	1.11	mg/L	0.024	2.12%
Ca 227.546†	749.4	7.15	mg/L	0.118	7.15	mg/L	0.118	1.65%
Cd 228.802†	474.6	0.0261	mg/L	0.00012	0.0261	mg/L	0.00012	0.47%
Co 228.616†	1820.5	0.0923	mg/L	0.00109	0.0923	mg/L	0.00109	1.18%
Cr 267.716†	26733.9	0.236	mg/L	0.0056	0.236	mg/L	0.0056	2.37%
Cu 327.393†	40073.9	0.279	mg/L	0.0069	0.279	mg/L	0.0069	2.47%
Fe 239.562†	907.3	1.96	mg/L	0.020	1.96	mg/L	0.020	1.04%
Mg 279.077†	4413.5	5.37	mg/L	0.057	5.37	mg/L	0.057	1.06%
Mn 257.610†	111714.8	0.255	mg/L	0.0054	0.255	mg/L	0.0054	2.12%
Mo 202.031†	6359.1	0.476	mg/L	0.0123	0.476	mg/L	0.0123	2.59%
Ni 231.604†	8188.0	0.238	mg/L	0.0043	0.238	mg/L	0.0043	1.80%
Pb 220.353†	1393.0	0.238	mg/L	0.0027	0.238	mg/L	0.0027	1.12%
Sb 206.836†	1047.9	0.674	mg/L	0.0047	0.674	mg/L	0.0047	0.70%
Se 196.026†	300.1	0.214	mg/L	0.0095	0.214	mg/L	0.0095	4.45%
Si 251.611†	282274.0	8.25	mg/L	0.181	8.25	mg/L	0.181	2.19%
Sn 189.927†	2876.2	0.496	mg/L	0.0065	0.496	mg/L	0.0065	1.32%
Ti 334.940†	350197.1	0.482	mg/L	0.0029	0.482	mg/L	0.0029	0.60%
Tl 190.801†	411.2	0.249	mg/L	0.0026	0.249	mg/L	0.0026	1.03%
V 290.880†	69641.1	0.467	mg/L	0.0106	0.467	mg/L	0.0106	2.28%
Zn 206.200†	15721.2	0.477	mg/L	0.0102	0.477	mg/L	0.0102	2.14%
K 766.490†	71913.7	27.4	mg/L	0.16	27.4	mg/L	0.16	0.60%

Na 589.592†	405109.5	29.7	mg/L	0.29	29.7	mg/L	0.29	0.98%
Sr 407.771†	436711.5	0.427	mg/L	0.0368	0.427	mg/L	0.0368	8.60%
Li 670.784†	45127.5	0.563	mg/L	0.0016	0.563	mg/L	0.0016	0.28%

Sequence No.: 71 **Autosampler Location: 97**
Sample ID: L1102040209SD WG356765-05 **Date Collected: 2/18/2011 11:39:40 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040209SD WG356765-05

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040209SD WG356765-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5060405.0						54421.27	1.08%
YRADIAL	324538.5						7291.88	2.25%
Ga 417.206	1246071.6						24954.54	2.00%
GaRADIAL	61618.3						1495.20	2.43%
Ag 328.068†	45122.1	0.225	mg/L	0.0050	0.225	mg/L	0.0050	2.22%
Al 396.153†	30344.8	6.07	mg/L	0.015	6.07	mg/L	0.015	0.25%
As 188.979†	240.1	0.218	mg/L	0.0093	0.218	mg/L	0.0093	4.27%
Ba 233.527†	29278.3	0.497	mg/L	0.0062	0.497	mg/L	0.0062	1.24%
Be 234.861†	16761.5	0.0289	mg/L	0.00083	0.0289	mg/L	0.00083	2.87%
B 249.677†	59972.0	1.14	mg/L	0.033	1.14	mg/L	0.033	2.92%
Ca 227.546†	781.4	7.45	mg/L	0.180	7.45	mg/L	0.180	2.41%
Cd 228.802†	490.2	0.0269	mg/L	0.00038	0.0269	mg/L	0.00038	1.40%
Co 228.616†	1876.4	0.0951	mg/L	0.00131	0.0951	mg/L	0.00131	1.38%
Cr 267.716†	27251.1	0.240	mg/L	0.0021	0.240	mg/L	0.0021	0.86%
Cu 327.393†	40826.8	0.284	mg/L	0.0077	0.284	mg/L	0.0077	2.73%
Fe 239.562†	924.4	2.00	mg/L	0.058	2.00	mg/L	0.058	2.91%
Mg 279.077†	4529.2	5.51	mg/L	0.127	5.51	mg/L	0.127	2.30%
Mn 257.610†	113867.5	0.260	mg/L	0.0030	0.260	mg/L	0.0030	1.14%
Mo 202.031†	6506.0	0.487	mg/L	0.0039	0.487	mg/L	0.0039	0.81%
Ni 231.604†	8332.6	0.243	mg/L	0.0019	0.243	mg/L	0.0019	0.77%
Pb 220.353†	1438.4	0.245	mg/L	0.0045	0.245	mg/L	0.0045	1.83%
Sb 206.836†	1072.7	0.690	mg/L	0.0136	0.690	mg/L	0.0136	1.97%
Se 196.026†	306.7	0.219	mg/L	0.0058	0.219	mg/L	0.0058	2.63%
Si 251.611†	286733.1	8.38	mg/L	0.213	8.38	mg/L	0.213	2.54%
Sn 189.927†	3086.5	0.532	mg/L	0.0075	0.532	mg/L	0.0075	1.40%
Ti 334.940†	359618.0	0.494	mg/L	0.0056	0.494	mg/L	0.0056	1.14%
Tl 190.801†	421.9	0.255	mg/L	0.0009	0.255	mg/L	0.0009	0.36%
V 290.880†	71015.1	0.476	mg/L	0.0063	0.476	mg/L	0.0063	1.32%
Zn 206.200†	16025.3	0.486	mg/L	0.0043	0.486	mg/L	0.0043	0.89%
K 766.490†	73821.6	28.2	mg/L	0.08	28.2	mg/L	0.08	0.27%
Na 589.592†	415016.4	30.4	mg/L	0.45	30.4	mg/L	0.45	1.48%
Sr 407.771†	443147.6	0.434	mg/L	0.0442	0.434	mg/L	0.0442	10.18%
Li 670.784†	46159.6	0.576	mg/L	0.0047	0.576	mg/L	0.0047	0.82%

Sequence No.: 72 **Autosampler Location: 98**
Sample ID: L1102040214 **Date Collected: 2/18/2011 11:46:21 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040214

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102040214

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5278166.9						48510.84	0.92%
YRADIAL	327474.9						3418.95	1.04%
Ga 417.206	1303558.4						7615.86	0.58%

GaRADIAL	63430.4					1461.62	2.30%
Ag 328.068†	24.0	0.00053	mg/L	0.000654	0.00053 mg/L	0.000654	122.82%
Al 396.153†	549.3	0.103	mg/L	0.0313	0.103 mg/L	0.0313	30.37%
As 188.979†	0.9	0.00079	mg/L	0.001856	0.00079 mg/L	0.001856	234.44%
Ba 233.527†	545.1	0.00903	mg/L	0.000124	0.00903 mg/L	0.000124	1.37%
Be 234.861†	-67.1	-0.00016	mg/L	0.000018	-0.00016 mg/L	0.000018	11.59%
B 249.677†	1103.5	0.0233	mg/L	0.00051	0.0233 mg/L	0.00051	2.18%
Ca 227.546†	222.1	2.02	mg/L	0.019	2.02 mg/L	0.019	0.92%
Cd 228.802†	2.8	0.00029	mg/L	0.000138	0.00029 mg/L	0.000138	47.08%
Co 228.616†	3.3	0.00030	mg/L	0.000208	0.00030 mg/L	0.000208	69.62%
Cr 267.716†	52.1	-0.00003	mg/L	0.000071	-0.00003 mg/L	0.000071	253.28%
Cu 327.393†	120.9	0.00056	mg/L	0.000518	0.00056 mg/L	0.000518	92.22%
Fe 239.562†	84.9	0.180	mg/L	0.0025	0.180 mg/L	0.0025	1.41%
Mg 279.077†	754.0	0.914	mg/L	0.0210	0.914 mg/L	0.0210	2.30%
Mn 257.610†	7710.6	0.0182	mg/L	0.00018	0.0182 mg/L	0.00018	0.97%
Mo 202.031†	0.6	0.00012	mg/L	0.000284	0.00012 mg/L	0.000284	239.39%
Ni 231.604†	-0.3	0.00004	mg/L	0.000170	0.00004 mg/L	0.000170	386.25%
Pb 220.353†	-8.8	-0.00138	mg/L	0.000933	-0.00138 mg/L	0.000933	67.66%
Sb 206.836†	-0.8	0.00062	mg/L	0.001404	0.00062 mg/L	0.001404	226.72%
Se 196.026†	-3.4	-0.00443	mg/L	0.004998	-0.00443 mg/L	0.004998	112.90%
Si 251.611†	195802.3	5.73	mg/L	0.044	5.73 mg/L	0.044	0.77%
Sn 189.927†	6.1	0.00021	mg/L	0.000887	0.00021 mg/L	0.000887	421.25%
Ti 334.940†	1407.2	0.00192	mg/L	0.000150	0.00192 mg/L	0.000150	7.82%
Tl 190.801†	6.9	0.00439	mg/L	0.001499	0.00439 mg/L	0.001499	34.13%
V 290.880†	-405.5	-0.00147	mg/L	0.000998	-0.00147 mg/L	0.000998	67.87%
Zn 206.200†	147.5	0.00411	mg/L	0.000078	0.00411 mg/L	0.000078	1.90%
K 766.490†	1447.9	0.564	mg/L	0.0125	0.564 mg/L	0.0125	2.22%
Na 589.592†	33471.2	2.42	mg/L	0.019	2.42 mg/L	0.019	0.80%
Sr 407.771†	12856.3	0.0123	mg/L	0.00095	0.0123 mg/L	0.00095	7.69%
Li 670.784†	-43.7	0.00040	mg/L	0.001663	0.00040 mg/L	0.001663	414.30%

Sequence No.: 73 **Autosampler Location: 99**
Sample ID: L1102040217 **Date Collected: 2/18/2011 11:53:03 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040217

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102040217

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5289721.6						41452.71	0.78%
YRADIAL	325416.9						4450.80	1.37%
Ga 417.206	1309737.8						12523.91	0.96%
GaRADIAL	62976.1						753.89	1.20%
Ag 328.068†	38.5	0.00061	mg/L	0.001172	0.00061	mg/L	0.001172	193.74%
Al 396.153†	558.8	0.105	mg/L	0.0166	0.105	mg/L	0.0166	15.83%
As 188.979†	-0.7	-0.00061	mg/L	0.000408	-0.00061	mg/L	0.000408	66.37%
Ba 233.527†	534.2	0.00885	mg/L	0.000065	0.00885	mg/L	0.000065	0.74%
Be 234.861†	-55.9	-0.00014	mg/L	0.000025	-0.00014	mg/L	0.000025	18.46%
B 249.677†	968.5	0.0207	mg/L	0.00083	0.0207	mg/L	0.00083	4.00%
Ca 227.546†	222.3	2.03	mg/L	0.036	2.03	mg/L	0.036	1.79%
Cd 228.802†	1.3	0.00022	mg/L	0.000047	0.00022	mg/L	0.000047	21.35%
Co 228.616†	8.1	0.00054	mg/L	0.000157	0.00054	mg/L	0.000157	28.84%
Cr 267.716†	56.0	0.00001	mg/L	0.000105	0.00001	mg/L	0.000105	>999.9%
Cu 327.393†	54.2	0.00010	mg/L	0.001370	0.00010	mg/L	0.001370	>999.9%
Fe 239.562†	86.9	0.185	mg/L	0.0047	0.185	mg/L	0.0047	2.55%
Mg 279.077†	739.9	0.897	mg/L	0.0133	0.897	mg/L	0.0133	1.48%
Mn 257.610†	7504.2	0.0177	mg/L	0.00011	0.0177	mg/L	0.00011	0.60%
Mo 202.031†	3.7	0.00035	mg/L	0.000221	0.00035	mg/L	0.000221	62.93%
Ni 231.604†	2.2	0.00012	mg/L	0.000059	0.00012	mg/L	0.000059	49.47%
Pb 220.353†	-5.1	-0.00076	mg/L	0.000798	-0.00076	mg/L	0.000798	105.41%
Sb 206.836†	-0.9	0.00060	mg/L	0.001868	0.00060	mg/L	0.001868	309.26%
Se 196.026†	1.5	-0.00091	mg/L	0.001241	-0.00091	mg/L	0.001241	136.74%
Si 251.611†	192012.5	5.62	mg/L	0.051	5.62	mg/L	0.051	0.90%
Sn 189.927†	2.7	-0.00039	mg/L	0.000295	-0.00039	mg/L	0.000295	76.42%
Ti 334.940†	1586.5	0.00216	mg/L	0.000265	0.00216	mg/L	0.000265	12.26%

Tl 190.801†	3.3	0.00224 mg/L	0.003149	0.00224 mg/L	0.003149	140.28%
V 290.880†	-351.4	-0.00111 mg/L	0.000894	-0.00111 mg/L	0.000894	80.75%
Zn 206.200†	130.1	0.00358 mg/L	0.000223	0.00358 mg/L	0.000223	6.22%
K 766.490†	1371.1	0.535 mg/L	0.0387	0.535 mg/L	0.0387	7.24%
Na 589.592†	32306.7	2.34 mg/L	0.036	2.34 mg/L	0.036	1.54%
Sr 407.771†	12135.2	0.0116 mg/L	0.00102	0.0116 mg/L	0.00102	8.81%
Li 670.784†	-93.6	-0.00022 mg/L	0.001298	-0.00022 mg/L	0.001298	589.25%

Sequence No.: 74 **Autosampler Location: 100**
Sample ID: L1102040220 **Date Collected: 2/18/2011 11:59:44 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040220

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040220

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5233476.4						21649.49	0.41%
YRADIAL	332820.4						4682.50	1.41%
Ga 417.206	1257378.5						8799.61	0.70%
GaRADIAL	63282.6						400.41	0.63%
Ag 328.068†	-19.0	0.00033	mg/L	0.000869	0.00033	mg/L	0.000869	261.27%
Al 396.153†	30.2	-0.00093	mg/L	0.005064	-0.00093	mg/L	0.005064	543.03%
As 188.979†	0.2	0.00020	mg/L	0.001757	0.00020	mg/L	0.001757	867.75%
Ba 233.527†	-1.6	-0.00022	mg/L	0.000021	-0.00022	mg/L	0.000021	9.36%
Be 234.861†	-127.6	-0.00023	mg/L	0.000021	-0.00023	mg/L	0.000021	9.34%
B 249.677†	863.0	0.0180	mg/L	0.00035	0.0180	mg/L	0.00035	1.95%
Ca 227.546†	2.0	-0.0345	mg/L	0.05964	-0.0345	mg/L	0.05964	172.83%
Cd 228.802†	4.8	0.00041	mg/L	0.000060	0.00041	mg/L	0.000060	14.48%
Co 228.616†	8.4	0.00057	mg/L	0.000202	0.00057	mg/L	0.000202	35.53%
Cr 267.716†	44.6	-0.00008	mg/L	0.000057	-0.00008	mg/L	0.000057	67.47%
Cu 327.393†	-15.7	-0.00041	mg/L	0.000292	-0.00041	mg/L	0.000292	71.41%
Fe 239.562†	2.8	0.00212	mg/L	0.001578	0.00212	mg/L	0.001578	74.56%
Mg 279.077†	-11.7	-0.0180	mg/L	0.00852	-0.0180	mg/L	0.00852	47.37%
Mn 257.610†	8.0	-0.00025	mg/L	0.000009	-0.00025	mg/L	0.000009	3.63%
Mo 202.031†	-3.0	-0.00016	mg/L	0.000053	-0.00016	mg/L	0.000053	32.68%
Ni 231.604†	-7.0	-0.00015	mg/L	0.000160	-0.00015	mg/L	0.000160	107.91%
Pb 220.353†	-5.2	-0.00086	mg/L	0.000546	-0.00086	mg/L	0.000546	63.60%
Sb 206.836†	-3.3	-0.00095	mg/L	0.000971	-0.00095	mg/L	0.000971	102.52%
Se 196.026†	3.6	0.00004	mg/L	0.003842	0.00004	mg/L	0.003842	>999.9%
Si 251.611†	183.6	0.00488	mg/L	0.000098	0.00488	mg/L	0.000098	2.01%
Sn 189.927†	3.1	-0.00031	mg/L	0.000724	-0.00031	mg/L	0.000724	235.03%
Ti 334.940†	195.1	0.00023	mg/L	0.000110	0.00023	mg/L	0.000110	47.53%
Tl 190.801†	4.7	0.00323	mg/L	0.002093	0.00323	mg/L	0.002093	64.74%
V 290.880†	-434.3	-0.00168	mg/L	0.000674	-0.00168	mg/L	0.000674	40.20%
Zn 206.200†	103.2	0.00277	mg/L	0.000099	0.00277	mg/L	0.000099	3.56%
K 766.490†	-34.3	0.00529	mg/L	0.029824	0.00529	mg/L	0.029824	564.16%
Na 589.592†	-885.1	-0.0607	mg/L	0.00485	-0.0607	mg/L	0.00485	7.98%
Sr 407.771†	44.4	-0.00023	mg/L	0.000021	-0.00023	mg/L	0.000021	9.03%
Li 670.784†	-155.4	-0.00099	mg/L	0.001907	-0.00099	mg/L	0.001907	192.71%

Sequence No.: 75 **Autosampler Location: 101**
Sample ID: L1102040220PS WG356832-01 **Date Collected: 2/19/2011 12:06:23 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040220PS WG356832-01

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102040220PS WG356832-01

Analyte	Mean Corrected	Calib.	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	5035821.3						41050.35	0.82%
YRADIAL	319381.1						6574.52	2.06%
Ga 417.206	1228648.5						26533.30	2.16%
GaRADIAL	61018.6						727.85	1.19%
Ag 328.068†	44513.2	0.222	mg/L	0.0030	0.222	mg/L	0.0030	1.33%
Al 396.153†	28357.5	5.67	mg/L	0.043	5.67	mg/L	0.043	0.76%
As 188.979†	244.6	0.222	mg/L	0.0050	0.222	mg/L	0.0050	2.24%
Ba 233.527†	28072.0	0.476	mg/L	0.0015	0.476	mg/L	0.0015	0.32%
Be 234.861†	16383.8	0.0282	mg/L	0.00040	0.0282	mg/L	0.00040	1.40%
B 249.677†	59140.2	1.12	mg/L	0.019	1.12	mg/L	0.019	1.67%
Ca 227.546†	565.3	5.43	mg/L	0.096	5.43	mg/L	0.096	1.76%
Cd 228.802†	486.7	0.0267	mg/L	0.00047	0.0267	mg/L	0.00047	1.77%
Co 228.616†	1836.3	0.0931	mg/L	0.00067	0.0931	mg/L	0.00067	0.72%
Cr 267.716†	26673.4	0.235	mg/L	0.0015	0.235	mg/L	0.0015	0.62%
Cu 327.393†	40121.5	0.279	mg/L	0.0039	0.279	mg/L	0.0039	1.40%
Fe 239.562†	824.4	1.78	mg/L	0.023	1.78	mg/L	0.023	1.29%
Mg 279.077†	3766.6	4.58	mg/L	0.061	4.58	mg/L	0.061	1.34%
Mn 257.610†	106245.4	0.242	mg/L	0.0012	0.242	mg/L	0.0012	0.51%
Mo 202.031†	6362.6	0.476	mg/L	0.0029	0.476	mg/L	0.0029	0.60%
Ni 231.604†	8202.3	0.239	mg/L	0.0010	0.239	mg/L	0.0010	0.43%
Pb 220.353†	1414.6	0.241	mg/L	0.0025	0.241	mg/L	0.0025	1.06%
Sb 206.836†	1066.9	0.686	mg/L	0.0119	0.686	mg/L	0.0119	1.73%
Se 196.026†	302.0	0.215	mg/L	0.0031	0.215	mg/L	0.0031	1.46%
Si 251.611†	97557.5	2.85	mg/L	0.042	2.85	mg/L	0.042	1.47%
Sn 189.927†	0.4	-0.00078	mg/L	0.000877	-0.00078	mg/L	0.000877	111.79%
Ti 334.940†	343646.4	0.472	mg/L	0.0012	0.472	mg/L	0.0012	0.25%
Tl 190.801†	408.0	0.247	mg/L	0.0043	0.247	mg/L	0.0043	1.73%
V 290.880†	69356.9	0.465	mg/L	0.0020	0.465	mg/L	0.0020	0.44%
Zn 206.200†	15724.6	0.477	mg/L	0.0016	0.477	mg/L	0.0016	0.34%
K 766.490†	70489.4	26.9	mg/L	0.33	26.9	mg/L	0.33	1.21%
Na 589.592†	374395.7	27.4	mg/L	0.17	27.4	mg/L	0.17	0.60%
Sr 407.771†	423175.0	0.414	mg/L	0.0397	0.414	mg/L	0.0397	9.58%
Li 670.784†	44021.7	0.549	mg/L	0.0013	0.549	mg/L	0.0013	0.24%

Sequence No.: 76 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 2/19/2011 12:13:07 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4938261.0						54522.91	1.10%
YRADIAL	313058.8						5802.27	1.85%
Ga 417.206	1184447.2						21279.18	1.80%
GaRADIAL	59414.3						791.70	1.33%
Ag 328.068†	89518.3	0.446	mg/L	0.0044	0.446	mg/L	0.0044	0.98%
Al 396.153†	56456.7	11.3	mg/L	0.05	11.3	mg/L	0.05	0.46%
As 188.979†	500.7	0.454	mg/L	0.0105	0.454	mg/L	0.0105	2.31%
Ba 233.527†	55845.1	0.948	mg/L	0.0083	0.948	mg/L	0.0083	0.87%
Be 234.861†	33450.8	0.0577	mg/L	0.00076	0.0577	mg/L	0.00076	1.32%
B 249.677†	30259.8	0.577	mg/L	0.0057	0.577	mg/L	0.0057	0.99%
Ca 227.546†	1153.0	11.1	mg/L	0.13	11.1	mg/L	0.13	1.15%
Cd 228.802†	986.6	0.0539	mg/L	0.00069	0.0539	mg/L	0.00069	1.28%
Co 228.616†	3651.5	0.185	mg/L	0.0016	0.185	mg/L	0.0016	0.89%
Cr 267.716†	53139.5	0.469	mg/L	0.0025	0.469	mg/L	0.0025	0.53%
Cu 327.393†	80451.7	0.559	mg/L	0.0064	0.559	mg/L	0.0064	1.14%
Fe 239.562†	1651.6	3.58	mg/L	0.032	3.58	mg/L	0.032	0.91%
Mg 279.077†	7411.9	9.02	mg/L	0.098	9.02	mg/L	0.098	1.09%
Mn 257.610†	209713.6	0.478	mg/L	0.0031	0.478	mg/L	0.0031	0.66%
Mo 202.031†	12976.9	0.971	mg/L	0.0079	0.971	mg/L	0.0079	0.82%
Ni 231.604†	16091.8	0.468	mg/L	0.0037	0.468	mg/L	0.0037	0.78%
Pb 220.353†	2823.2	0.482	mg/L	0.0045	0.482	mg/L	0.0045	0.92%
Sb 206.836†	2154.6	1.38	mg/L	0.018	1.38	mg/L	0.018	1.31%

Se 196.026†	622.3	0.446	mg/L	0.0023	0.446	mg/L	0.0023	0.51%
Si 251.611†	191748.3	5.59	mg/L	0.067	5.59	mg/L	0.067	1.20%
Sn 189.927†	5484.8	0.946	mg/L	0.0063	0.946	mg/L	0.0063	0.67%
Ti 334.940†	689643.7	0.948	mg/L	0.0077	0.948	mg/L	0.0077	0.81%
Tl 190.801†	806.4	0.488	mg/L	0.0070	0.488	mg/L	0.0070	1.44%
V 290.880†	138409.8	0.927	mg/L	0.0046	0.927	mg/L	0.0046	0.50%
Zn 206.200†	31569.2	0.958	mg/L	0.0095	0.958	mg/L	0.0095	1.00%
K 766.490†	142002.7	54.6	mg/L	0.08	54.6	mg/L	0.08	0.14%
Na 589.592†	751150.0	55.8	mg/L	1.00	55.8	mg/L	1.00	1.80%
Sr 407.771†	819303.2	0.802	mg/L	0.0662	0.802	mg/L	0.0662	8.25%
Li 670.784†	87703.7	1.09	mg/L	0.013	1.09	mg/L	0.013	1.17%

Sequence No.: 77 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 2/19/2011 12:19:51 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5302066.9						60078.31	1.13%
YRADIAL	323927.1						4752.94	1.47%
Ga 417.206	1245056.3						15292.84	1.23%
GaRADIAL	61326.5						1856.11	3.03%
Ag 328.068†	204.5	0.00144	mg/L	0.000748	0.00144	mg/L	0.000748	51.86%
Al 396.153†	-69.4	-0.0209	mg/L	0.00127	-0.0209	mg/L	0.00127	6.07%
As 188.979†	-3.0	-0.00275	mg/L	0.003621	-0.00275	mg/L	0.003621	131.47%
Ba 233.527†	5.0	-0.00011	mg/L	0.000013	-0.00011	mg/L	0.000013	11.21%
Be 234.861†	-126.6	-0.00022	mg/L	0.000026	-0.00022	mg/L	0.000026	11.67%
B 249.677†	887.9	0.0185	mg/L	0.00114	0.0185	mg/L	0.00114	6.19%
Ca 227.546†	-0.3	-0.0555	mg/L	0.04361	-0.0555	mg/L	0.04361	78.54%
Cd 228.802†	5.1	0.00045	mg/L	0.000076	0.00045	mg/L	0.000076	17.00%
Co 228.616†	4.6	0.00038	mg/L	0.000151	0.00038	mg/L	0.000151	40.11%
Cr 267.716†	6.5	-0.00042	mg/L	0.000074	-0.00042	mg/L	0.000074	17.54%
Cu 327.393†	-34.3	-0.00054	mg/L	0.000602	-0.00054	mg/L	0.000602	112.03%
Fe 239.562†	0.8	-0.00211	mg/L	0.003652	-0.00211	mg/L	0.003652	173.44%
Mg 279.077†	-7.3	-0.0126	mg/L	0.00233	-0.0126	mg/L	0.00233	18.53%
Mn 257.610†	-4.0	-0.00028	mg/L	0.000013	-0.00028	mg/L	0.000013	4.78%
Mo 202.031†	4.4	0.00039	mg/L	0.000213	0.00039	mg/L	0.000213	53.89%
Ni 231.604†	-14.8	-0.00038	mg/L	0.000067	-0.00038	mg/L	0.000067	17.91%
Pb 220.353†	-8.8	-0.00146	mg/L	0.000218	-0.00146	mg/L	0.000218	14.94%
Sb 206.836†	-0.6	0.00079	mg/L	0.001243	0.00079	mg/L	0.001243	158.18%
Se 196.026†	-0.5	-0.00290	mg/L	0.004808	-0.00290	mg/L	0.004808	165.97%
Si 251.611†	116.7	0.00292	mg/L	0.000362	0.00292	mg/L	0.000362	12.41%
Sn 189.927†	6.9	0.00035	mg/L	0.000445	0.00035	mg/L	0.000445	127.04%
Ti 334.940†	242.6	0.00030	mg/L	0.000034	0.00030	mg/L	0.000034	11.33%
Tl 190.801†	2.2	0.00175	mg/L	0.000949	0.00175	mg/L	0.000949	54.22%
V 290.880†	-437.1	-0.00169	mg/L	0.000572	-0.00169	mg/L	0.000572	33.73%
Zn 206.200†	39.0	0.00083	mg/L	0.000089	0.00083	mg/L	0.000089	10.77%
K 766.490†	168.5	0.0820	mg/L	0.02298	0.0820	mg/L	0.02298	28.02%
Na 589.592†	-542.6	-0.0360	mg/L	0.00132	-0.0360	mg/L	0.00132	3.67%
Sr 407.771†	107.0	-0.00017	mg/L	0.000031	-0.00017	mg/L	0.000031	18.13%
Li 670.784†	-93.2	-0.00022	mg/L	0.001271	-0.00022	mg/L	0.001271	591.16%

Sequence No.: 78 **Autosampler Location: 102**
Sample ID: L1102040220DL WG356832-02 **Date Collected: 2/19/2011 12:26:30 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040220DL WG356832-02

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040220DL WG356832-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5206741.8						37535.61	0.72%
YRADIAL	327976.3						4093.88	1.25%
Ga 417.206	1246141.1						4046.84	0.32%
GaRADIAL	61794.4						1413.97	2.29%
Ag 328.068†	34.8	0.00060	mg/L	0.000337	0.00060	mg/L	0.000337	55.97%
Al 396.153†	-2.5	-0.00749	mg/L	0.017326	-0.00749	mg/L	0.017326	231.38%
As 188.979†	-1.4	-0.00129	mg/L	0.004208	-0.00129	mg/L	0.004208	326.84%
Ba 233.527†	5.1	-0.00011	mg/L	0.000136	-0.00011	mg/L	0.000136	125.17%
Be 234.861†	-131.6	-0.00023	mg/L	0.000008	-0.00023	mg/L	0.000008	3.34%
B 249.677†	853.5	0.0178	mg/L	0.00165	0.0178	mg/L	0.00165	9.29%
Ca 227.546†	-9.2	-0.140	mg/L	0.0452	-0.140	mg/L	0.0452	32.37%
Cd 228.802†	3.1	0.00032	mg/L	0.000158	0.00032	mg/L	0.000158	48.80%
Co 228.616†	3.5	0.00032	mg/L	0.000299	0.00032	mg/L	0.000299	93.27%
Cr 267.716†	-1.9	-0.00050	mg/L	0.000098	-0.00050	mg/L	0.000098	19.77%
Cu 327.393†	11.7	-0.00022	mg/L	0.001112	-0.00022	mg/L	0.001112	507.06%
Fe 239.562†	-1.3	-0.00663	mg/L	0.009239	-0.00663	mg/L	0.009239	139.27%
Mg 279.077†	-9.1	-0.0148	mg/L	0.00374	-0.0148	mg/L	0.00374	25.37%
Mn 257.610†	47.8	-0.00016	mg/L	0.000023	-0.00016	mg/L	0.000023	14.55%
Mo 202.031†	0.6	0.00011	mg/L	0.000351	0.00011	mg/L	0.000351	317.18%
Ni 231.604†	-13.0	-0.00033	mg/L	0.000206	-0.00033	mg/L	0.000206	63.22%
Pb 220.353†	-4.0	-0.00066	mg/L	0.000203	-0.00066	mg/L	0.000203	30.78%
Sb 206.836†	-2.3	-0.00029	mg/L	0.001815	-0.00029	mg/L	0.001815	632.79%
Se 196.026†	9.2	0.00400	mg/L	0.001995	0.00400	mg/L	0.001995	49.92%
Si 251.611†	176.7	0.00468	mg/L	0.000080	0.00468	mg/L	0.000080	1.71%
Sn 189.927†	5.3	0.00007	mg/L	0.001003	0.00007	mg/L	0.001003	>999.9%
Ti 334.940†	229.6	0.00028	mg/L	0.000191	0.00028	mg/L	0.000191	68.79%
Tl 190.801†	5.9	0.00395	mg/L	0.002699	0.00395	mg/L	0.002699	68.36%
V 290.880†	-350.2	-0.00111	mg/L	0.000162	-0.00111	mg/L	0.000162	14.53%
Zn 206.200†	106.4	0.00287	mg/L	0.000059	0.00287	mg/L	0.000059	2.05%
K 766.490†	144.7	0.0730	mg/L	0.00923	0.0730	mg/L	0.00923	12.64%
Na 589.592†	-511.7	-0.0338	mg/L	0.00589	-0.0338	mg/L	0.00589	17.43%
Sr 407.771†	90.4	-0.00019	mg/L	0.000090	-0.00019	mg/L	0.000090	48.31%
Li 670.784†	-113.0	-0.00046	mg/L	0.000898	-0.00046	mg/L	0.000898	194.34%

Sequence No.: 79 **Autosampler Location: 103**
Sample ID: L1102040223 **Date Collected: 2/19/2011 12:33:10 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040223

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040223

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5253501.2						32689.70	0.62%
YRADIAL	324915.3						1847.93	0.57%
Ga 417.206	1263837.8						19132.50	1.51%
GaRADIAL	61806.8						626.25	1.01%
Ag 328.068†	25.5	0.00055	mg/L	0.000356	0.00055	mg/L	0.000356	64.27%
Al 396.153†	-1.2	-0.00723	mg/L	0.016815	-0.00723	mg/L	0.016815	232.51%
As 188.979†	0.7	0.00065	mg/L	0.004193	0.00065	mg/L	0.004193	646.00%
Ba 233.527†	2.3	-0.00016	mg/L	0.000119	-0.00016	mg/L	0.000119	75.40%
Be 234.861†	-132.1	-0.00023	mg/L	0.000010	-0.00023	mg/L	0.000010	4.41%
B 249.677†	892.1	0.0186	mg/L	0.00052	0.0186	mg/L	0.00052	2.78%
Ca 227.546†	8.1	0.0239	mg/L	0.10097	0.0239	mg/L	0.10097	422.76%
Cd 228.802†	4.7	0.00041	mg/L	0.000102	0.00041	mg/L	0.000102	25.13%
Co 228.616†	6.7	0.00048	mg/L	0.000382	0.00048	mg/L	0.000382	79.37%
Cr 267.716†	12.4	-0.00037	mg/L	0.000053	-0.00037	mg/L	0.000053	14.21%
Cu 327.393†	170.4	0.00088	mg/L	0.000203	0.00088	mg/L	0.000203	23.05%
Fe 239.562†	3.6	0.00401	mg/L	0.004193	0.00401	mg/L	0.004193	104.48%
Mg 279.077†	-9.0	-0.0147	mg/L	0.00411	-0.0147	mg/L	0.00411	27.91%
Mn 257.610†	18.8	-0.00023	mg/L	0.000009	-0.00023	mg/L	0.000009	4.17%

Mo 202.031†	2.5	0.00025	mg/L	0.000223	0.00025	mg/L	0.000223 88.69%
Ni 231.604†	2.9	0.00014	mg/L	0.000065	0.00014	mg/L	0.000065 47.17%
Pb 220.353†	-6.3	-0.00104	mg/L	0.000349	-0.00104	mg/L	0.000349 33.49%
Sb 206.836†	-3.7	-0.00119	mg/L	0.001915	-0.00119	mg/L	0.001915 160.60%
Se 196.026†	-2.9	-0.00461	mg/L	0.000620	-0.00461	mg/L	0.000620 13.45%
Si 251.611†	218.9	0.00591	mg/L	0.000363	0.00591	mg/L	0.000363 6.14%
Sn 189.927†	1.1	-0.00065	mg/L	0.000293	-0.00065	mg/L	0.000293 44.89%
Ti 334.940†	153.2	0.00017	mg/L	0.000251	0.00017	mg/L	0.000251 144.61%
Tl 190.801†	3.3	0.00238	mg/L	0.003561	0.00238	mg/L	0.003561 149.48%
V 290.880†	-442.1	-0.00173	mg/L	0.000278	-0.00173	mg/L	0.000278 16.08%
Zn 206.200†	88.3	0.00232	mg/L	0.000154	0.00232	mg/L	0.000154 6.63%
K 766.490†	158.2	0.0781	mg/L	0.04957	0.0781	mg/L	0.04957 63.44%
Na 589.592†	-856.9	-0.0587	mg/L	0.00956	-0.0587	mg/L	0.00956 16.28%
Sr 407.771†	61.5	-0.00022	mg/L	0.000065	-0.00022	mg/L	0.000065 30.06%
Li 670.784†	-184.9	-0.00136	mg/L	0.001430	-0.00136	mg/L	0.001430 105.41%

Sequence No.: 80 **Autosampler Location: 104**
Sample ID: L1102041217 **Date Collected: 2/19/2011 12:39:53 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041217

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102041217

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5301290.8						86115.22	1.62%
YRADIAL	325265.2						8917.61	2.74%
Ga 417.206	1288614.0						40184.27	3.12%
GaRADIAL	61596.3						1767.00	2.87%
Ag 328.068†	84.8	0.00083	mg/L	0.000281	0.00083	mg/L	0.000281	33.93%
Al 396.153†	1811.1	0.356	mg/L	0.0040	0.356	mg/L	0.0040	1.12%
As 188.979†	1.5	0.00141	mg/L	0.000730	0.00141	mg/L	0.000730	51.96%
Ba 233.527†	201.1	0.00321	mg/L	0.000102	0.00321	mg/L	0.000102	3.18%
Be 234.861†	-54.7	-0.00015	mg/L	0.000037	-0.00015	mg/L	0.000037	24.24%
B 249.677†	1040.1	0.0222	mg/L	0.00129	0.0222	mg/L	0.00129	5.81%
Ca 227.546†	177.8	1.62	mg/L	0.063	1.62	mg/L	0.063	3.86%
Cd 228.802†	3.2	0.00031	mg/L	0.000200	0.00031	mg/L	0.000200	63.68%
Co 228.616†	5.9	0.00041	mg/L	0.000150	0.00041	mg/L	0.000150	37.06%
Cr 267.716†	1098.7	0.00922	mg/L	0.000166	0.00922	mg/L	0.000166	1.80%
Cu 327.393†	10356.3	0.0716	mg/L	0.00157	0.0716	mg/L	0.00157	2.20%
Fe 239.562†	127.4	0.272	mg/L	0.0087	0.272	mg/L	0.0087	3.18%
Mg 279.077†	129.1	0.153	mg/L	0.0072	0.153	mg/L	0.0072	4.68%
Mn 257.610†	2350.7	0.00523	mg/L	0.000101	0.00523	mg/L	0.000101	1.93%
Mo 202.031†	3.6	0.00035	mg/L	0.000356	0.00035	mg/L	0.000356	101.87%
Ni 231.604†	56.6	0.00170	mg/L	0.000200	0.00170	mg/L	0.000200	11.73%
Pb 220.353†	15.8	0.00271	mg/L	0.000967	0.00271	mg/L	0.000967	35.76%
Sb 206.836†	-4.8	-0.00195	mg/L	0.001370	-0.00195	mg/L	0.001370	70.45%
Se 196.026†	4.2	0.00092	mg/L	0.004078	0.00092	mg/L	0.004078	443.28%
Si 251.611†	30166.6	0.882	mg/L	0.0153	0.882	mg/L	0.0153	1.74%
Sn 189.927†	9.9	0.00086	mg/L	0.000230	0.00086	mg/L	0.000230	26.72%
Ti 334.940†	9293.3	0.0128	mg/L	0.00008	0.0128	mg/L	0.00008	0.61%
Tl 190.801†	7.0	0.00461	mg/L	0.004471	0.00461	mg/L	0.004471	96.90%
V 290.880†	-376.9	-0.00127	mg/L	0.000386	-0.00127	mg/L	0.000386	30.39%
Zn 206.200†	544.8	0.0162	mg/L	0.00041	0.0162	mg/L	0.00041	2.52%
K 766.490†	1504.2	0.587	mg/L	0.0647	0.587	mg/L	0.0647	11.02%
Na 589.592†	6881.1	0.500	mg/L	0.0023	0.500	mg/L	0.0023	0.47%
Sr 407.771†	4043.7	0.00365	mg/L	0.000403	0.00365	mg/L	0.000403	11.02%
Li 670.784†	-23.5	0.00065	mg/L	0.001663	0.00065	mg/L	0.001663	254.80%

Sequence No.: 81 **Autosampler Location: 105**
Sample ID: L1102041218 **Date Collected: 2/19/2011 12:46:32 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041218

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102041218

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5300201.2						28799.56	0.54%
YRADIAL	328091.2						4382.15	1.34%
Ga 417.206	1271156.2						16935.66	1.33%
GaRADIAL	62141.2						942.07	1.52%
Ag 328.068†	67.9	0.00076	mg/L	0.001008	0.00076	mg/L	0.001008	133.21%
Al 396.153†	571.4	0.108	mg/L	0.0040	0.108	mg/L	0.0040	3.68%
As 188.979†	1.1	0.00105	mg/L	0.002224	0.00105	mg/L	0.002224	211.10%
Ba 233.527†	70.5	0.00100	mg/L	0.000084	0.00100	mg/L	0.000084	8.43%
Be 234.861†	-105.3	-0.00020	mg/L	0.000046	-0.00020	mg/L	0.000046	22.98%
B 249.677†	938.2	0.0196	mg/L	0.00127	0.0196	mg/L	0.00127	6.46%
Ca 227.546†	79.3	0.695	mg/L	0.0703	0.695	mg/L	0.0703	10.11%
Cd 228.802†	1.0	0.00020	mg/L	0.000092	0.00020	mg/L	0.000092	47.01%
Co 228.616†	3.6	0.00031	mg/L	0.000130	0.00031	mg/L	0.000130	41.88%
Cr 267.716†	261.1	0.00183	mg/L	0.000078	0.00183	mg/L	0.000078	4.28%
Cu 327.393†	8762.0	0.0605	mg/L	0.00100	0.0605	mg/L	0.00100	1.65%
Fe 239.562†	33.5	0.0687	mg/L	0.00126	0.0687	mg/L	0.00126	1.84%
Mg 279.077†	30.7	0.0336	mg/L	0.00725	0.0336	mg/L	0.00725	21.55%
Mn 257.610†	1613.5	0.00343	mg/L	0.000048	0.00343	mg/L	0.000048	1.40%
Mo 202.031†	2.6	0.00026	mg/L	0.000336	0.00026	mg/L	0.000336	127.89%
Ni 231.604†	52.5	0.00158	mg/L	0.000090	0.00158	mg/L	0.000090	5.70%
Pb 220.353†	11.1	0.00189	mg/L	0.000331	0.00189	mg/L	0.000331	17.49%
Sb 206.836†	-1.6	0.00013	mg/L	0.001734	0.00013	mg/L	0.001734	>999.9%
Se 196.026†	1.6	-0.00119	mg/L	0.001653	-0.00119	mg/L	0.001653	138.60%
Si 251.611†	9408.9	0.275	mg/L	0.0095	0.275	mg/L	0.0095	3.44%
Sn 189.927†	8.9	0.00068	mg/L	0.000816	0.00068	mg/L	0.000816	119.08%
Ti 334.940†	2980.3	0.00407	mg/L	0.000186	0.00407	mg/L	0.000186	4.56%
Tl 190.801†	3.2	0.00231	mg/L	0.000896	0.00231	mg/L	0.000896	38.88%
V 290.880†	-350.7	-0.00111	mg/L	0.000625	-0.00111	mg/L	0.000625	56.18%
Zn 206.200†	555.7	0.0165	mg/L	0.00015	0.0165	mg/L	0.00015	0.91%
K 766.490†	630.1	0.257	mg/L	0.0234	0.257	mg/L	0.0234	9.13%
Na 589.592†	1791.4	0.132	mg/L	0.0068	0.132	mg/L	0.0068	5.14%
Sr 407.771†	1096.1	0.00079	mg/L	0.000135	0.00079	mg/L	0.000135	17.10%
Li 670.784†	-112.9	-0.00046	mg/L	0.001937	-0.00046	mg/L	0.001937	420.34%

Sequence No.: 82 **Autosampler Location: 106**
Sample ID: L1102041219 **Date Collected: 2/19/2011 12:53:12 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041219

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102041219

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5329418.4						96749.11	1.82%
YRADIAL	328698.7						3472.79	1.06%
Ga 417.206	1278151.0						23707.29	1.85%
GaRADIAL	62330.2						937.43	1.50%
Ag 328.068†	140.3	0.00112	mg/L	0.000150	0.00112	mg/L	0.000150	13.42%
Al 396.153†	372.2	0.0676	mg/L	0.01468	0.0676	mg/L	0.01468	21.71%
As 188.979†	2.4	0.00224	mg/L	0.004223	0.00224	mg/L	0.004223	188.42%
Ba 233.527†	44.9	0.00056	mg/L	0.000052	0.00056	mg/L	0.000052	9.16%
Be 234.861†	-116.1	-0.00021	mg/L	0.000005	-0.00021	mg/L	0.000005	2.49%
B 249.677†	839.9	0.0176	mg/L	0.00069	0.0176	mg/L	0.00069	3.91%
Ca 227.546†	28.8	0.218	mg/L	0.0645	0.218	mg/L	0.0645	29.57%
Cd 228.802†	4.0	0.00035	mg/L	0.000099	0.00035	mg/L	0.000099	28.26%
Co 228.616†	3.3	0.00030	mg/L	0.000180	0.00030	mg/L	0.000180	59.53%
Cr 267.716†	101.5	0.00042	mg/L	0.000095	0.00042	mg/L	0.000095	22.85%

Cu 327.393†	2458.1	0.0168 mg/L	0.00016	0.0168 mg/L	0.00016	0.96%
Fe 239.562†	16.7	0.0324 mg/L	0.00691	0.0324 mg/L	0.00691	21.31%
Mg 279.077†	16.3	0.0162 mg/L	0.00589	0.0162 mg/L	0.00589	36.44%
Mn 257.610†	296.6	0.00043 mg/L	0.000019	0.00043 mg/L	0.000019	4.40%
Mo 202.031†	3.5	0.00033 mg/L	0.000243	0.00033 mg/L	0.000243	73.79%
Ni 231.604†	14.8	0.00049 mg/L	0.000325	0.00049 mg/L	0.000325	66.72%
Pb 220.353†	-4.1	-0.00068 mg/L	0.001173	-0.00068 mg/L	0.001173	173.69%
Sb 206.836†	-1.9	-0.00009 mg/L	0.001450	-0.00009 mg/L	0.001450	>999.9%
Se 196.026†	0.5	-0.00213 mg/L	0.001738	-0.00213 mg/L	0.001738	81.50%
Si 251.611†	5220.1	0.152 mg/L	0.0016	0.152 mg/L	0.0016	1.08%
Sn 189.927†	3.8	-0.00020 mg/L	0.000181	-0.00020 mg/L	0.000181	90.86%
Ti 334.940†	1407.5	0.00190 mg/L	0.000209	0.00190 mg/L	0.000209	11.02%
Tl 190.801†	2.2	0.00174 mg/L	0.002097	0.00174 mg/L	0.002097	120.86%
V 290.880†	-414.5	-0.00154 mg/L	0.000677	-0.00154 mg/L	0.000677	43.92%
Zn 206.200†	236.7	0.00682 mg/L	0.000178	0.00682 mg/L	0.000178	2.61%
K 766.490†	239.6	0.109 mg/L	0.0326	0.109 mg/L	0.0326	29.97%
Na 589.592†	-302.3	-0.0187 mg/L	0.00614	-0.0187 mg/L	0.00614	32.85%
Sr 407.771†	702.6	0.00041 mg/L	0.000055	0.00041 mg/L	0.000055	13.59%
Li 670.784†	-218.0	-0.00177 mg/L	0.000681	-0.00177 mg/L	0.000681	38.47%

Sequence No.: 83 **Autosampler Location: 107**
Sample ID: L1102041220 **Date Collected: 2/19/2011 12:59:55 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041220

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102041220

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5190665.0						4083.88	0.08%
YRADIAL	326303.1						5506.52	1.69%
Ga 417.206	1237578.3						15762.37	1.27%
GaRADIAL	61593.1						771.32	1.25%
Ag 328.068†	56.4	0.00071	mg/L	0.001417	0.00071	mg/L	0.001417	200.99%
Al 396.153†	252.5	0.0436	mg/L	0.00745	0.0436	mg/L	0.00745	17.09%
As 188.979†	0.8	0.00075	mg/L	0.000674	0.00075	mg/L	0.000674	90.40%
Ba 233.527†	54.1	0.00072	mg/L	0.000040	0.00072	mg/L	0.000040	5.52%
Be 234.861†	-130.4	-0.00023	mg/L	0.000021	-0.00023	mg/L	0.000021	9.03%
B 249.677†	801.1	0.0169	mg/L	0.00103	0.0169	mg/L	0.00103	6.09%
Ca 227.546†	32.2	0.251	mg/L	0.0394	0.251	mg/L	0.0394	15.72%
Cd 228.802†	5.0	0.00042	mg/L	0.000186	0.00042	mg/L	0.000186	44.66%
Co 228.616†	3.7	0.00032	mg/L	0.000241	0.00032	mg/L	0.000241	74.49%
Cr 267.716†	31.3	-0.00020	mg/L	0.000069	-0.00020	mg/L	0.000069	33.76%
Cu 327.393†	2838.0	0.0194	mg/L	0.00024	0.0194	mg/L	0.00024	1.23%
Fe 239.562†	14.6	0.0277	mg/L	0.00222	0.0277	mg/L	0.00222	8.00%
Mg 279.077†	7.4	0.00526	mg/L	0.005881	0.00526	mg/L	0.005881	111.71%
Mn 257.610†	445.5	0.00077	mg/L	0.000003	0.00077	mg/L	0.000003	0.45%
Mo 202.031†	4.3	0.00039	mg/L	0.000444	0.00039	mg/L	0.000444	114.15%
Ni 231.604†	25.1	0.00079	mg/L	0.000151	0.00079	mg/L	0.000151	19.22%
Pb 220.353†	1.7	0.00031	mg/L	0.000704	0.00031	mg/L	0.000704	226.40%
Sb 206.836†	-0.2	0.00102	mg/L	0.002639	0.00102	mg/L	0.002639	258.04%
Se 196.026†	-0.6	-0.00294	mg/L	0.002784	-0.00294	mg/L	0.002784	94.73%
Si 251.611†	4394.9	0.128	mg/L	0.0025	0.128	mg/L	0.0025	1.92%
Sn 189.927†	4.1	-0.00013	mg/L	0.000517	-0.00013	mg/L	0.000517	387.21%
Ti 334.940†	1058.1	0.00142	mg/L	0.000145	0.00142	mg/L	0.000145	10.21%
Tl 190.801†	5.0	0.00339	mg/L	0.000448	0.00339	mg/L	0.000448	13.24%
V 290.880†	-342.4	-0.00106	mg/L	0.001180	-0.00106	mg/L	0.001180	111.33%
Zn 206.200†	251.1	0.00726	mg/L	0.000145	0.00726	mg/L	0.000145	1.99%
K 766.490†	530.6	0.219	mg/L	0.0189	0.219	mg/L	0.0189	8.66%
Na 589.592†	2532.1	0.186	mg/L	0.0015	0.186	mg/L	0.0015	0.82%
Sr 407.771†	729.8	0.00044	mg/L	0.000052	0.00044	mg/L	0.000052	11.90%
Li 670.784†	-158.6	-0.00103	mg/L	0.001249	-0.00103	mg/L	0.001249	121.21%

Sequence No.: 84 **Autosampler Location: 108**
Sample ID: L1102041221 **Date Collected: 2/19/2011 1:06:34 AM**

Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041221

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102041221

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5294225.0						81058.23	1.53%
YRADIAL	325759.1						2347.89	0.72%
Ga 417.206	1277034.6						27326.21	2.14%
GaRADIAL	61357.3						1185.59	1.93%
Ag 328.068†	26.7	0.00055	mg/L	0.000766	0.00055	mg/L	0.000766	140.14%
Al 396.153†	283.7	0.0499	mg/L	0.00873	0.0499	mg/L	0.00873	17.50%
As 188.979†	0.4	0.00041	mg/L	0.003371	0.00041	mg/L	0.003371	831.37%
Ba 233.527†	47.7	0.00061	mg/L	0.000087	0.00061	mg/L	0.000087	14.26%
Be 234.861†	-87.1	-0.00020	mg/L	0.000017	-0.00020	mg/L	0.000017	8.10%
B 249.677†	656.2	0.0152	mg/L	0.00180	0.0152	mg/L	0.00180	11.90%
Ca 227.546†	44.2	0.365	mg/L	0.0908	0.365	mg/L	0.0908	24.92%
Cd 228.802†	9.8	0.00068	mg/L	0.000149	0.00068	mg/L	0.000149	21.74%
Co 228.616†	5.0	0.00038	mg/L	0.000344	0.00038	mg/L	0.000344	89.90%
Cr 267.716†	271.0	0.00191	mg/L	0.000119	0.00191	mg/L	0.000119	6.22%
Cu 327.393†	3378.4	0.0232	mg/L	0.00103	0.0232	mg/L	0.00103	4.46%
Fe 239.562†	116.0	0.248	mg/L	0.0050	0.248	mg/L	0.0050	2.01%
Mg 279.077†	17.0	0.0169	mg/L	0.00635	0.0169	mg/L	0.00635	37.64%
Mn 257.610†	1224.9	0.00254	mg/L	0.000034	0.00254	mg/L	0.000034	1.36%
Mo 202.031†	9.8	0.00081	mg/L	0.000131	0.00081	mg/L	0.000131	16.20%
Ni 231.604†	13.7	0.00045	mg/L	0.000232	0.00045	mg/L	0.000232	51.21%
Pb 220.353†	1.6	0.00028	mg/L	0.000247	0.00028	mg/L	0.000247	87.48%
Sb 206.836†	-2.9	-0.00073	mg/L	0.001789	-0.00073	mg/L	0.001789	245.59%
Se 196.026†	1.0	-0.00169	mg/L	0.002763	-0.00169	mg/L	0.002763	163.47%
Si 251.611†	5173.3	0.151	mg/L	0.0058	0.151	mg/L	0.0058	3.88%
Sn 189.927†	6.3	0.00023	mg/L	0.000589	0.00023	mg/L	0.000589	251.73%
Ti 334.940†	1818.1	0.00247	mg/L	0.000103	0.00247	mg/L	0.000103	4.18%
Tl 190.801†	6.1	0.00407	mg/L	0.000740	0.00407	mg/L	0.000740	18.18%
V 290.880†	-298.8	-0.00075	mg/L	0.000666	-0.00075	mg/L	0.000666	88.65%
Zn 206.200†	214.9	0.00616	mg/L	0.000220	0.00616	mg/L	0.000220	3.57%
K 766.490†	919.9	0.366	mg/L	0.0189	0.366	mg/L	0.0189	5.17%
Na 589.592†	3833.4	0.280	mg/L	0.0085	0.280	mg/L	0.0085	3.06%
Sr 407.771†	821.0	0.00050	mg/L	0.000048	0.00050	mg/L	0.000048	9.61%
Li 670.784†	-155.6	-0.00099	mg/L	0.000078	-0.00099	mg/L	0.000078	7.83%

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Sequence No.: 85 **Autosampler Location: 109**
Sample ID: L1102041222 **Date Collected: 2/19/2011 1:13:14 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041222

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102041222

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5192521.6						43981.63	0.85%
YRADIAL	326180.4						8449.69	2.59%
Ga 417.206	1234269.2						13295.07	1.08%
GaRADIAL	60997.1						226.49	0.37%
Ag 328.068†	198.9	0.00141	mg/L	0.000869	0.00141	mg/L	0.000869	61.41%
Al 396.153†	115.9	0.0162	mg/L	0.00729	0.0162	mg/L	0.00729	44.87%
As 188.979†	-0.9	-0.00077	mg/L	0.002430	-0.00077	mg/L	0.002430	313.65%
Ba 233.527†	12.1	0.00001	mg/L	0.000006	0.00001	mg/L	0.000006	63.54%
Be 234.861†	-154.5	-0.00027	mg/L	0.000020	-0.00027	mg/L	0.000020	7.40%
B 249.677†	775.4	0.0164	mg/L	0.00037	0.0164	mg/L	0.00037	2.23%

Ca 227.546†	8.3	0.0257 mg/L	0.03190	0.0257 mg/L	0.03190	124.15%
Cd 228.802†	4.0	0.00038 mg/L	0.000153	0.00038 mg/L	0.000153	40.55%
Co 228.616†	10.5	0.00067 mg/L	0.000157	0.00067 mg/L	0.000157	23.39%
Cr 267.716†	83.6	0.00026 mg/L	0.000066	0.00026 mg/L	0.000066	25.47%
Cu 327.393†	830.6	0.00546 mg/L	0.000834	0.00546 mg/L	0.000834	15.26%
Fe 239.562†	7.3	0.0119 mg/L	0.00485	0.0119 mg/L	0.00485	40.60%
Mg 279.077†	-1.3	-0.00528 mg/L	0.003347	-0.00528 mg/L	0.003347	63.37%
Mn 257.610†	128.4	0.00003 mg/L	0.000015	0.00003 mg/L	0.000015	43.30%
Mo 202.031†	-1.6	-0.00006 mg/L	0.000478	-0.00006 mg/L	0.000478	859.15%
Ni 231.604†	7.9	0.00028 mg/L	0.000036	0.00028 mg/L	0.000036	12.55%
Pb 220.353†	-0.6	-0.00008 mg/L	0.000833	-0.00008 mg/L	0.000833	994.22%
Sb 206.836†	-4.4	-0.00163 mg/L	0.000186	-0.00163 mg/L	0.000186	11.37%
Se 196.026†	-0.5	-0.00289 mg/L	0.002419	-0.00289 mg/L	0.002419	83.74%
Si 251.611†	1631.0	0.0472 mg/L	0.00086	0.0472 mg/L	0.00086	1.82%
Sn 189.927†	2.7	-0.00038 mg/L	0.000375	-0.00038 mg/L	0.000375	98.99%
Ti 334.940†	472.6	0.00061 mg/L	0.000191	0.00061 mg/L	0.000191	31.20%
Tl 190.801†	2.9	0.00215 mg/L	0.001783	0.00215 mg/L	0.001783	83.03%
V 290.880†	-352.6	-0.00113 mg/L	0.000265	-0.00113 mg/L	0.000265	23.49%
Zn 206.200†	106.0	0.00286 mg/L	0.000114	0.00286 mg/L	0.000114	4.00%
K 766.490†	442.7	0.186 mg/L	0.0051	0.186 mg/L	0.0051	2.77%
Na 589.592†	670.6	0.0515 mg/L	0.00104	0.0515 mg/L	0.00104	2.02%
Sr 407.771†	217.3	-0.00006 mg/L	0.000036	-0.00006 mg/L	0.000036	54.85%
Li 670.784†	-88.9	-0.00016 mg/L	0.001929	-0.00016 mg/L	0.001929	>999.9%

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Sequence No.: 86 **Autosampler Location: 110**
Sample ID: L1102043101 **Date Collected: 2/19/2011 1:19:56 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043101

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102043101

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	5299586.0						50914.69	0.96%
YRADIAL	340328.0						5128.03	1.51%
Ga 417.206	1256148.5						14171.73	1.13%
GaRADIAL	63697.7						1227.92	1.93%
Ag 328.068†	50.8	0.00068	mg/L	0.000342	0.00068	mg/L	0.000342	50.39%
Al 396.153†	34.2	-0.00013	mg/L	0.006564	-0.00013	mg/L	0.006564	>999.9%
As 188.979†	-0.1	-0.00004	mg/L	0.000876	-0.00004	mg/L	0.000876	>999.9%
Ba 233.527†	3.9	-0.00013	mg/L	0.000046	-0.00013	mg/L	0.000046	34.83%
Be 234.861†	-131.0	-0.00023	mg/L	0.000010	-0.00023	mg/L	0.000010	4.44%
B 249.677†	536.2	0.0118	mg/L	0.00023	0.0118	mg/L	0.00023	1.97%
Ca 227.546†	-2.2	-0.0737	mg/L	0.05335	-0.0737	mg/L	0.05335	72.39%
Cd 228.802†	3.0	0.00032	mg/L	0.000047	0.00032	mg/L	0.000047	14.83%
Co 228.616†	6.8	0.00049	mg/L	0.000019	0.00049	mg/L	0.000019	3.79%
Cr 267.716†	8.1	-0.00041	mg/L	0.000084	-0.00041	mg/L	0.000084	20.65%
Cu 327.393†	64.2	0.00015	mg/L	0.000762	0.00015	mg/L	0.000762	522.28%
Fe 239.562†	2.4	0.00126	mg/L	0.002902	0.00126	mg/L	0.002902	230.37%
Mg 279.077†	-4.7	-0.00946	mg/L	0.003810	-0.00946	mg/L	0.003810	40.26%
Mn 257.610†	2.2	-0.00026	mg/L	0.000032	-0.00026	mg/L	0.000032	12.13%
Mo 202.031†	1.4	0.00017	mg/L	0.000199	0.00017	mg/L	0.000199	115.67%
Ni 231.604†	-3.6	-0.00005	mg/L	0.000257	-0.00005	mg/L	0.000257	539.19%
Pb 220.353†	-6.7	-0.00111	mg/L	0.000267	-0.00111	mg/L	0.000267	23.96%
Sb 206.836†	0.8	0.00168	mg/L	0.000420	0.00168	mg/L	0.000420	24.94%
Se 196.026†	1.1	-0.00180	mg/L	0.003071	-0.00180	mg/L	0.003071	170.31%
Si 251.611†	365.1	0.0102	mg/L	0.00048	0.0102	mg/L	0.00048	4.70%
Sn 189.927†	-0.7	-0.00098	mg/L	0.000061	-0.00098	mg/L	0.000061	6.20%
Ti 334.940†	183.4	0.00021	mg/L	0.000114	0.00021	mg/L	0.000114	53.09%
Tl 190.801†	-0.8	0.00000	mg/L	0.001469	0.00000	mg/L	0.001469	>999.9%
V 290.880†	-454.3	-0.00181	mg/L	0.000331	-0.00181	mg/L	0.000331	18.27%
Zn 206.200†	67.3	0.00169	mg/L	0.000190	0.00169	mg/L	0.000190	11.27%
K 766.490†	-36.5	0.00448	mg/L	0.022807	0.00448	mg/L	0.022807	509.60%
Na 589.592†	-850.7	-0.0583	mg/L	0.00543	-0.0583	mg/L	0.00543	9.32%
Sr 407.771†	65.6	-0.00021	mg/L	0.000063	-0.00021	mg/L	0.000063	29.75%
Li 670.784†	-174.1	-0.00122	mg/L	0.000688	-0.00122	mg/L	0.000688	56.28%

Sequence No.: 87 **Autosampler Location: 111**
Sample ID: L1102043401 **Date Collected: 2/19/2011 1:26:39 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043401

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102043401

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5150040.5						27195.74	0.53%
YRADIAL	329269.6						4428.01	1.34%
Ga 417.206	1264122.9						9754.94	0.77%
GaRADIAL	62954.6						900.08	1.43%
Ag 328.068†	6.9	0.00044	mg/L	0.000773	0.00044	mg/L	0.000773	174.51%
Al 396.153†	23.7	-0.00222	mg/L	0.022312	-0.00222	mg/L	0.022312	>999.9%
As 188.979†	0.9	0.00059	mg/L	0.001900	0.00059	mg/L	0.001900	324.79%
Ba 233.527†	3268.8	0.0551	mg/L	0.00039	0.0551	mg/L	0.00039	0.70%
Be 234.861†	-108.0	-0.00019	mg/L	0.000023	-0.00019	mg/L	0.000023	11.92%
B 249.677†	1503.4	0.0301	mg/L	0.00017	0.0301	mg/L	0.00017	0.57%
Ca 227.546†	1317.4	12.3	mg/L	0.09	12.3	mg/L	0.09	0.69%
Cd 228.802†	5.3	0.00043	mg/L	0.000105	0.00043	mg/L	0.000105	24.36%
Co 228.616†	2.7	0.00026	mg/L	0.000151	0.00026	mg/L	0.000151	58.38%
Cr 267.716†	212.4	0.00140	mg/L	0.000017	0.00140	mg/L	0.000017	1.21%
Cu 327.393†	-40.6	-0.00058	mg/L	0.000787	-0.00058	mg/L	0.000787	135.24%
Fe 239.562†	0.4	-0.00312	mg/L	0.002856	-0.00312	mg/L	0.002856	91.53%
Mg 279.077†	3899.8	4.74	mg/L	0.050	4.74	mg/L	0.050	1.06%
Mn 257.610†	1012.2	0.00486	mg/L	0.000056	0.00486	mg/L	0.000056	1.15%
Mo 202.031†	-0.5	0.00002	mg/L	0.000258	0.00002	mg/L	0.000258	>999.9%
Ni 231.604†	16.4	0.00052	mg/L	0.000140	0.00052	mg/L	0.000140	26.73%
Pb 220.353†	-10.9	-0.00123	mg/L	0.001670	-0.00123	mg/L	0.001670	135.49%
Sb 206.836†	-0.0	0.00113	mg/L	0.001307	0.00113	mg/L	0.001307	115.23%
Se 196.026†	-6.4	-0.00401	mg/L	0.001866	-0.00401	mg/L	0.001866	46.49%
Si 251.611†	504769.9	14.8	mg/L	0.06	14.8	mg/L	0.06	0.41%
Sn 189.927†	5.0	0.00002	mg/L	0.000961	0.00002	mg/L	0.000961	>999.9%
Ti 334.940†	-5.7	0.00008	mg/L	0.000094	0.00008	mg/L	0.000094	120.94%
Tl 190.801†	31.3	0.0178	mg/L	0.00417	0.0178	mg/L	0.00417	23.35%
V 290.880†	-517.4	-0.00223	mg/L	0.000749	-0.00223	mg/L	0.000749	33.53%
Zn 206.200†	104.6	0.00282	mg/L	0.000114	0.00282	mg/L	0.000114	4.05%
K 766.490†	5183.7	1.97	mg/L	0.008	1.97	mg/L	0.008	0.43%
Na 589.592†	119524.5	8.66	mg/L	0.086	8.66	mg/L	0.086	0.99%
Sr 407.771†	85874.2	0.0839	mg/L	0.00767	0.0839	mg/L	0.00767	9.15%
Li 670.784†	231.6	0.00383	mg/L	0.000298	0.00383	mg/L	0.000298	7.79%

Sequence No.: 88 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 2/19/2011 1:33:37 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4966332.0						74822.63	1.51%
YRADIAL	314959.8						5544.30	1.76%
Ga 417.206	1154228.3						22193.65	1.92%
GaRADIAL	58865.2						1023.57	1.74%
Ag 328.068†	91964.2	0.458	mg/L	0.0167	0.458	mg/L	0.0167	3.64%
Al 396.153†	57657.3	11.5	mg/L	0.09	11.5	mg/L	0.09	0.81%

As 188.979†	511.9	0.465	mg/L	0.0091	0.465	mg/L	0.0091 1.96%
Ba 233.527†	55448.3	0.941	mg/L	0.0336	0.941	mg/L	0.0336 3.57%
Be 234.861†	34513.2	0.0594	mg/L	0.00223	0.0594	mg/L	0.00223 3.74%
B 249.677†	30406.1	0.579	mg/L	0.0235	0.579	mg/L	0.0235 4.06%
Ca 227.546†	1194.8	11.5	mg/L	0.20	11.5	mg/L	0.20 1.75%
Cd 228.802†	1017.0	0.0555	mg/L	0.00142	0.0555	mg/L	0.00142 2.56%
Co 228.616†	3640.9	0.184	mg/L	0.0028	0.184	mg/L	0.0028 1.51%
Cr 267.716†	52789.2	0.466	mg/L	0.0168	0.466	mg/L	0.0168 3.61%
Cu 327.393†	83158.5	0.578	mg/L	0.0247	0.578	mg/L	0.0247 4.27%
Fe 239.562†	1649.8	3.57	mg/L	0.027	3.57	mg/L	0.027 0.76%
Mg 279.077†	7399.5	9.01	mg/L	0.099	9.01	mg/L	0.099 1.10%
Mn 257.610†	208822.8	0.476	mg/L	0.0176	0.476	mg/L	0.0176 3.71%
Mo 202.031†	12517.2	0.936	mg/L	0.0344	0.936	mg/L	0.0344 3.67%
Ni 231.604†	16072.2	0.468	mg/L	0.0170	0.468	mg/L	0.0170 3.63%
Pb 220.353†	2806.0	0.479	mg/L	0.0073	0.479	mg/L	0.0073 1.52%
Sb 206.836†	2227.9	1.43	mg/L	0.027	1.43	mg/L	0.027 1.92%
Se 196.026†	638.2	0.457	mg/L	0.0144	0.457	mg/L	0.0144 3.15%
Si 251.611†	197544.3	5.76	mg/L	0.230	5.76	mg/L	0.230 3.99%
Sn 189.927†	5463.4	0.942	mg/L	0.0141	0.942	mg/L	0.0141 1.50%
Ti 334.940†	686279.5	0.944	mg/L	0.0030	0.944	mg/L	0.0030 0.32%
Tl 190.801†	806.3	0.488	mg/L	0.0081	0.488	mg/L	0.0081 1.67%
V 290.880†	137788.5	0.923	mg/L	0.0361	0.923	mg/L	0.0361 3.91%
Zn 206.200†	31263.4	0.949	mg/L	0.0297	0.949	mg/L	0.0297 3.13%
K 766.490†	145318.6	55.9	mg/L	0.68	55.9	mg/L	0.68 1.21%
Na 589.592†	768380.3	57.1	mg/L	1.31	57.1	mg/L	1.31 2.29%
Sr 407.771†	828016.8	0.811	mg/L	0.0600	0.811	mg/L	0.0600 7.41%
Li 670.784†	90028.4	1.12	mg/L	0.019	1.12	mg/L	0.019 1.68%

Sequence No.: 89 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 2/19/2011 1:40:19 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5132384.5						6121.26	0.12%
YRADIAL	320427.6						3452.87	1.08%
Ga 417.206	1196963.6						6281.82	0.52%
GaRADIAL	59786.4						718.33	1.20%
Ag 328.068†	-140.7	-0.00027	mg/L	0.000330	-0.00027	mg/L	0.000330	122.41%
Al 396.153†	-17.6	-0.0105	mg/L	0.00541	-0.0105	mg/L	0.00541	51.52%
As 188.979†	-1.6	-0.00142	mg/L	0.001248	-0.00142	mg/L	0.001248	87.74%
Ba 233.527†	5.7	-0.00010	mg/L	0.000105	-0.00010	mg/L	0.000105	107.16%
Be 234.861†	-155.3	-0.00027	mg/L	0.000006	-0.00027	mg/L	0.000006	2.21%
B 249.677†	413.9	0.00950	mg/L	0.000167	0.00950	mg/L	0.000167	1.76%
Ca 227.546†	-3.5	-0.0858	mg/L	0.02840	-0.0858	mg/L	0.02840	33.09%
Cd 228.802†	7.8	0.00059	mg/L	0.000186	0.00059	mg/L	0.000186	31.70%
Co 228.616†	3.7	0.00033	mg/L	0.000218	0.00033	mg/L	0.000218	66.84%
Cr 267.716†	-12.6	-0.00059	mg/L	0.000134	-0.00059	mg/L	0.000134	22.65%
Cu 327.393†	-95.5	-0.00096	mg/L	0.000354	-0.00096	mg/L	0.000354	36.73%
Fe 239.562†	1.2	-0.00130	mg/L	0.002516	-0.00130	mg/L	0.002516	193.85%
Mg 279.077†	-2.0	-0.00613	mg/L	0.001781	-0.00613	mg/L	0.001781	29.06%
Mn 257.610†	7.2	-0.00025	mg/L	0.000005	-0.00025	mg/L	0.000005	1.99%
Mo 202.031†	5.8	0.00050	mg/L	0.000352	0.00050	mg/L	0.000352	71.03%
Ni 231.604†	-13.0	-0.00032	mg/L	0.000091	-0.00032	mg/L	0.000091	28.24%
Pb 220.353†	-3.2	-0.00053	mg/L	0.000854	-0.00053	mg/L	0.000854	161.19%
Sb 206.836†	-1.2	0.00037	mg/L	0.001791	0.00037	mg/L	0.001791	481.66%
Se 196.026†	3.1	-0.00032	mg/L	0.004844	-0.00032	mg/L	0.004844	>999.9%
Si 251.611†	103.2	0.00252	mg/L	0.000134	0.00252	mg/L	0.000134	5.32%
Sn 189.927†	5.1	0.00004	mg/L	0.000818	0.00004	mg/L	0.000818	>999.9%
Ti 334.940†	171.2	0.00020	mg/L	0.000069	0.00020	mg/L	0.000069	34.78%
Tl 190.801†	3.3	0.00241	mg/L	0.001102	0.00241	mg/L	0.001102	45.78%
V 290.880†	-296.0	-0.00075	mg/L	0.000246	-0.00075	mg/L	0.000246	32.79%
Zn 206.200†	26.0	0.00043	mg/L	0.000031	0.00043	mg/L	0.000031	7.24%

K 766.490†	166.5	0.0813	mg/L	0.00921	0.0813	mg/L	0.00921 11.33%
Na 589.592†	-601.1	-0.0403	mg/L	0.01036	-0.0403	mg/L	0.01036 25.74%
Sr 407.771†	79.7	-0.00020	mg/L	0.000045	-0.00020	mg/L	0.000045 22.93%
Li 670.784†	-59.5	0.00020	mg/L	0.001075	0.00020	mg/L	0.001075 525.58%

Sequence No.: 90 **Autosampler Location: 3**
Sample ID: LLCCV **Date Collected: 2/19/2011 1:47:01 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5160231.7						88190.09	1.71%
YRADIAL	318678.9						7837.95	2.46%
Ga 417.206	1212214.3						44139.82	3.64%
GaRADIAL	59348.7						501.11	0.84%
Ag 328.068†	1766.3	0.00922	mg/L	0.000420	0.00922	mg/L	0.000420	4.55%
Al 396.153†	1201.3	0.234	mg/L	0.0083	0.234	mg/L	0.0083	3.56%
As 188.979†	11.1	0.0101	mg/L	0.00110	0.0101	mg/L	0.00110	10.85%
Ba 233.527†	1168.7	0.0196	mg/L	0.00029	0.0196	mg/L	0.00029	1.47%
Be 234.861†	547.8	0.00094	mg/L	0.000025	0.00094	mg/L	0.000025	2.70%
B 249.677†	916.7	0.0191	mg/L	0.00149	0.0191	mg/L	0.00149	7.82%
Ca 227.546†	18.6	0.129	mg/L	0.0299	0.129	mg/L	0.0299	23.24%
Cd 228.802†	23.1	0.00140	mg/L	0.000317	0.00140	mg/L	0.000317	22.65%
Co 228.616†	78.9	0.00413	mg/L	0.000252	0.00413	mg/L	0.000252	6.11%
Cr 267.716†	1151.4	0.00970	mg/L	0.000155	0.00970	mg/L	0.000155	1.60%
Cu 327.393†	1689.1	0.0115	mg/L	0.00027	0.0115	mg/L	0.00027	2.34%
Fe 239.562†	34.6	0.0711	mg/L	0.00108	0.0711	mg/L	0.00108	1.52%
Mg 279.077†	149.9	0.179	mg/L	0.0064	0.179	mg/L	0.0064	3.59%
Mn 257.610†	4444.4	0.00986	mg/L	0.000150	0.00986	mg/L	0.000150	1.52%
Mo 202.031†	263.2	0.0198	mg/L	0.00066	0.0198	mg/L	0.00066	3.33%
Ni 231.604†	327.4	0.00958	mg/L	0.000134	0.00958	mg/L	0.000134	1.40%
Pb 220.353†	55.3	0.00944	mg/L	0.001333	0.00944	mg/L	0.001333	14.12%
Sb 206.836†	47.1	0.0314	mg/L	0.00220	0.0314	mg/L	0.00220	7.01%
Se 196.026†	16.3	0.00917	mg/L	0.002995	0.00917	mg/L	0.002995	32.65%
Si 251.611†	4097.7	0.119	mg/L	0.0043	0.119	mg/L	0.0043	3.64%
Sn 189.927†	119.4	0.0198	mg/L	0.00017	0.0198	mg/L	0.00017	0.85%
Ti 334.940†	14508.4	0.0199	mg/L	0.00026	0.0199	mg/L	0.00026	1.31%
Tl 190.801†	17.7	0.0112	mg/L	0.00200	0.0112	mg/L	0.00200	17.93%
V 290.880†	2411.7	0.0174	mg/L	0.00066	0.0174	mg/L	0.00066	3.79%
Zn 206.200†	700.5	0.0209	mg/L	0.00027	0.0209	mg/L	0.00027	1.29%
K 766.490†	3070.9	1.18	mg/L	0.016	1.18	mg/L	0.016	1.40%
Na 589.592†	15561.5	1.13	mg/L	0.016	1.13	mg/L	0.016	1.44%
Sr 407.771†	17205.6	0.0166	mg/L	0.00135	0.0166	mg/L	0.00135	8.16%
Li 670.784†	1923.9	0.0249	mg/L	0.00158	0.0249	mg/L	0.00158	6.34%

Sequence No.: 91 **Autosampler Location: 112**
Sample ID: PBW A8 WG356433-02 **Date Collected: 2/19/2011 1:53:38 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW A8 WG356433-02

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: PBW A8 WG356433-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5283354.2						11110.00	0.21%
YRADIAL	326125.1						7101.89	2.18%

Ga 417.206	1256658.1				5274.46	0.42%
GaRADIAL	60665.4				1150.05	1.90%
Ag 328.068†	29.7	0.00057 mg/L	0.001093	0.00057 mg/L	0.001093	190.35%
Al 396.153†	125.5	0.0182 mg/L	0.00800	0.0182 mg/L	0.00800	44.02%
As 188.979†	1.5	0.00139 mg/L	0.001641	0.00139 mg/L	0.001641	117.74%
Ba 233.527†	8.1	-0.00006 mg/L	0.000023	-0.00006 mg/L	0.000023	37.37%
Be 234.861†	-127.2	-0.00022 mg/L	0.000018	-0.00022 mg/L	0.000018	7.91%
B 249.677†	186.4	0.00517 mg/L	0.000373	0.00517 mg/L	0.000373	7.21%
Ca 227.546†	1.7	-0.0371 mg/L	0.09397	-0.0371 mg/L	0.09397	253.61%
Cd 228.802†	3.8	0.00035 mg/L	0.000076	0.00035 mg/L	0.000076	21.67%
Co 228.616†	8.0	0.00055 mg/L	0.000026	0.00055 mg/L	0.000026	4.77%
Cr 267.716†	-10.9	-0.00058 mg/L	0.000131	-0.00058 mg/L	0.000131	22.77%
Cu 327.393†	-18.3	-0.00043 mg/L	0.000861	-0.00043 mg/L	0.000861	201.78%
Fe 239.562†	1.3	-0.00104 mg/L	0.003326	-0.00104 mg/L	0.003326	318.62%
Mg 279.077†	-8.5	-0.0140 mg/L	0.00187	-0.0140 mg/L	0.00187	13.37%
Mn 257.610†	-4.4	-0.00028 mg/L	0.000012	-0.00028 mg/L	0.000012	4.26%
Mo 202.031†	1.3	0.00016 mg/L	0.000320	0.00016 mg/L	0.000320	200.37%
Ni 231.604†	-7.9	-0.00018 mg/L	0.000168	-0.00018 mg/L	0.000168	96.08%
Pb 220.353†	-7.3	-0.00121 mg/L	0.000792	-0.00121 mg/L	0.000792	65.64%
Sb 206.836†	-0.8	0.00067 mg/L	0.001641	0.00067 mg/L	0.001641	243.69%
Se 196.026†	3.2	-0.00026 mg/L	0.001370	-0.00026 mg/L	0.001370	518.71%
Si 251.611†	91.6	0.00219 mg/L	0.000278	0.00219 mg/L	0.000278	12.71%
Sn 189.927†	3.3	-0.00028 mg/L	0.000195	-0.00028 mg/L	0.000195	68.68%
Ti 334.940†	234.3	0.00028 mg/L	0.000101	0.00028 mg/L	0.000101	35.65%
Tl 190.801†	4.6	0.00317 mg/L	0.002433	0.00317 mg/L	0.002433	76.81%
V 290.880†	-449.5	-0.00178 mg/L	0.000051	-0.00178 mg/L	0.000051	2.85%
Zn 206.200†	70.5	0.00178 mg/L	0.000054	0.00178 mg/L	0.000054	3.03%
K 766.490†	4.0	0.0198 mg/L	0.02143	0.0198 mg/L	0.02143	108.30%
Na 589.592†	-705.2	-0.0478 mg/L	0.01093	-0.0478 mg/L	0.01093	22.87%
Sr 407.771†	497.7	0.00021 mg/L	0.000028	0.00021 mg/L	0.000028	13.19%
Li 670.784†	-144.2	-0.00085 mg/L	0.001393	-0.00085 mg/L	0.001393	163.84%

Sequence No.: 92 **Autosampler Location: 113**
Sample ID: LCSW A8 WG356433-03 **Date Collected: 2/19/2011 2:00:23 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW A8 WG356433-03

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: LCSW A8 WG356433-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5027988.2						1298.37	0.03%
YRADIAL	315337.4						3196.16	1.01%
Ga 417.206	1202588.6						15879.42	1.32%
GaRADIAL	58672.6						268.58	0.46%
Ag 328.068†	46570.1	0.232	mg/L	0.0028	0.232	mg/L	0.0028	1.19%
Al 396.153†	29463.9	5.89	mg/L	0.005	5.89	mg/L	0.005	0.09%
As 188.979†	247.8	0.225	mg/L	0.0039	0.225	mg/L	0.0039	1.73%
Ba 233.527†	28834.3	0.489	mg/L	0.0045	0.489	mg/L	0.0045	0.92%
Be 234.861†	17234.1	0.0297	mg/L	0.00040	0.0297	mg/L	0.00040	1.34%
B 249.677†	61125.0	1.16	mg/L	0.015	1.16	mg/L	0.015	1.28%
Ca 227.546†	592.1	5.68	mg/L	0.117	5.68	mg/L	0.117	2.06%
Cd 228.802†	501.8	0.0275	mg/L	0.00040	0.0275	mg/L	0.00040	1.47%
Co 228.616†	1861.1	0.0944	mg/L	0.00033	0.0944	mg/L	0.00033	0.35%
Cr 267.716†	27279.5	0.241	mg/L	0.0026	0.241	mg/L	0.0026	1.07%
Cu 327.393†	42062.3	0.292	mg/L	0.0043	0.292	mg/L	0.0043	1.46%
Fe 239.562†	839.4	1.82	mg/L	0.014	1.82	mg/L	0.014	0.78%
Mg 279.077†	3834.7	4.67	mg/L	0.044	4.67	mg/L	0.044	0.95%
Mn 257.610†	108861.9	0.248	mg/L	0.0025	0.248	mg/L	0.0025	1.01%
Mo 202.031†	6531.9	0.489	mg/L	0.0037	0.489	mg/L	0.0037	0.76%
Ni 231.604†	8335.1	0.243	mg/L	0.0014	0.243	mg/L	0.0014	0.59%
Pb 220.353†	1428.7	0.244	mg/L	0.0020	0.244	mg/L	0.0020	0.84%
Sb 206.836†	1098.0	0.706	mg/L	0.0120	0.706	mg/L	0.0120	1.70%
Se 196.026†	314.3	0.224	mg/L	0.0043	0.224	mg/L	0.0043	1.90%
Si 251.611†	102663.9	3.00	mg/L	0.035	3.00	mg/L	0.035	1.16%
Sn 189.927†	2977.1	0.513	mg/L	0.0015	0.513	mg/L	0.0015	0.28%

Ti 334.940†	350560.8	0.482	mg/L	0.0015	0.482	mg/L	0.0015	0.31%
Tl 190.801†	416.7	0.252	mg/L	0.0042	0.252	mg/L	0.0042	1.65%
V 290.880†	71106.2	0.477	mg/L	0.0048	0.477	mg/L	0.0048	1.01%
Zn 206.200†	16049.8	0.487	mg/L	0.0051	0.487	mg/L	0.0051	1.05%
K 766.490†	73147.4	27.9	mg/L	0.28	27.9	mg/L	0.28	1.01%
Na 589.592†	389956.5	28.5	mg/L	0.18	28.5	mg/L	0.18	0.65%
Sr 407.771†	423111.4	0.414	mg/L	0.0276	0.414	mg/L	0.0276	6.65%
Li 670.784†	45579.5	0.569	mg/L	0.0026	0.569	mg/L	0.0026	0.46%

Sequence No.: 93 **Autosampler Location: 114**
Sample ID: L1102026601 **Date Collected: 2/19/2011 2:07:05 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026601

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102026601

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5164709.6						50639.02	0.98%
YRADIAL	323227.7						2478.02	0.77%
Ga 417.206	1239183.7						11800.95	0.95%
GaRADIAL	61003.0						934.03	1.53%
Ag 328.068†	94.3	0.00049	mg/L	0.000444	0.00049	mg/L	0.000444	90.17%
Al 396.153†	779.1	0.150	mg/L	0.0012	0.150	mg/L	0.0012	0.77%
As 188.979†	16.1	0.0152	mg/L	0.00247	0.0152	mg/L	0.00247	16.25%
Ba 233.527†	4339.5	0.0733	mg/L	0.00089	0.0733	mg/L	0.00089	1.21%
Be 234.861†	814.4	0.00009	mg/L	0.000059	0.00009	mg/L	0.000059	64.76%
B 249.677†	695.4	0.0452	mg/L	0.00079	0.0452	mg/L	0.00079	1.74%
Ca 227.546†	2182.1	20.5	mg/L	0.29	20.5	mg/L	0.29	1.43%
Cd 228.802†	5.7	0.00043	mg/L	0.000117	0.00043	mg/L	0.000117	26.82%
Co 228.616†	149.6	0.00761	mg/L	0.000147	0.00761	mg/L	0.000147	1.94%
Cr 267.716†	120.3	0.00046	mg/L	0.000056	0.00046	mg/L	0.000056	12.30%
Cu 327.393†	5.6	0.00050	mg/L	0.000996	0.00050	mg/L	0.000996	200.26%
Fe 239.562†	3033.7	6.57	mg/L	0.065	6.57	mg/L	0.065	0.99%
Mg 279.077†	3134.3	3.81	mg/L	0.034	3.81	mg/L	0.034	0.88%
Mn 257.610†	134032.8	0.304	mg/L	0.0013	0.304	mg/L	0.0013	0.41%
Mo 202.031†	8.2	0.00107	mg/L	0.000161	0.00107	mg/L	0.000161	15.08%
Ni 231.604†	69.7	0.00208	mg/L	0.000052	0.00208	mg/L	0.000052	2.51%
Pb 220.353†	-9.0	-0.00082	mg/L	0.001194	-0.00082	mg/L	0.001194	145.45%
Sb 206.836†	5.1	0.00445	mg/L	0.002945	0.00445	mg/L	0.002945	66.10%
Se 196.026†	-21.5	-0.0105	mg/L	0.00629	-0.0105	mg/L	0.00629	59.76%
Si 251.611†	305695.7	8.94	mg/L	0.057	8.94	mg/L	0.057	0.64%
Sn 189.927†	4.7	-0.00004	mg/L	0.000134	-0.00004	mg/L	0.000134	375.95%
Ti 334.940†	1970.4	0.00288	mg/L	0.000865	0.00288	mg/L	0.000865	30.08%
Tl 190.801†	39.4	0.0224	mg/L	0.00183	0.0224	mg/L	0.00183	8.16%
V 290.880†	-386.7	-0.00086	mg/L	0.000653	-0.00086	mg/L	0.000653	75.96%
Zn 206.200†	591.8	0.0174	mg/L	0.00031	0.0174	mg/L	0.00031	1.77%
K 766.490†	6607.3	2.50	mg/L	0.052	2.50	mg/L	0.052	2.10%
Na 589.592†	220449.2	16.0	mg/L	0.11	16.0	mg/L	0.11	0.68%
Sr 407.771†	184883.1	0.180	mg/L	0.0158	0.180	mg/L	0.0158	8.77%
Li 670.784†	87.3	0.00203	mg/L	0.001374	0.00203	mg/L	0.001374	67.55%

Sequence No.: 94 **Autosampler Location: 115**
Sample ID: L1102026602 **Date Collected: 2/19/2011 2:13:45 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026602

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102026602

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5216392.1						92799.69	1.78%
YRADIAL	331803.8						8201.86	2.47%
Ga 417.206	1247850.5						25310.10	2.03%
GaRADIAL	62064.8						1281.71	2.07%
Ag 328.068†	7.1	0.00009	mg/L	0.000500	0.00009	mg/L	0.000500	548.32%
Al 396.153†	695.4	0.133	mg/L	0.0019	0.133	mg/L	0.0019	1.45%
As 188.979†	17.8	0.0168	mg/L	0.00144	0.0168	mg/L	0.00144	8.58%
Ba 233.527†	4022.1	0.0679	mg/L	0.00128	0.0679	mg/L	0.00128	1.89%
Be 234.861†	815.3	0.00020	mg/L	0.000091	0.00020	mg/L	0.000091	45.70%
B 249.677†	579.4	0.0405	mg/L	0.00130	0.0405	mg/L	0.00130	3.21%
Ca 227.546†	2049.5	19.3	mg/L	0.35	19.3	mg/L	0.35	1.81%
Cd 228.802†	4.1	0.00033	mg/L	0.000174	0.00033	mg/L	0.000174	52.96%
Co 228.616†	137.7	0.00701	mg/L	0.000161	0.00701	mg/L	0.000161	2.30%
Cr 267.716†	102.4	0.00030	mg/L	0.000085	0.00030	mg/L	0.000085	27.97%
Cu 327.393†	-153.6	-0.00067	mg/L	0.000639	-0.00067	mg/L	0.000639	95.19%
Fe 239.562†	2782.0	6.03	mg/L	0.113	6.03	mg/L	0.113	1.88%
Mg 279.077†	2950.8	3.59	mg/L	0.066	3.59	mg/L	0.066	1.83%
Mn 257.610†	126716.9	0.288	mg/L	0.0064	0.288	mg/L	0.0064	2.24%
Mo 202.031†	8.4	0.00105	mg/L	0.000108	0.00105	mg/L	0.000108	10.31%
Ni 231.604†	63.0	0.00188	mg/L	0.000146	0.00188	mg/L	0.000146	7.79%
Pb 220.353†	-7.8	-0.00066	mg/L	0.001101	-0.00066	mg/L	0.001101	167.69%
Sb 206.836†	4.6	0.00410	mg/L	0.002872	0.00410	mg/L	0.002872	70.11%
Se 196.026†	-14.1	-0.00573	mg/L	0.003040	-0.00573	mg/L	0.003040	53.08%
Si 251.611†	303112.6	8.87	mg/L	0.093	8.87	mg/L	0.093	1.05%
Sn 189.927†	1.2	-0.00065	mg/L	0.000895	-0.00065	mg/L	0.000895	138.55%
Ti 334.940†	1610.7	0.00237	mg/L	0.001716	0.00237	mg/L	0.001716	72.41%
Tl 190.801†	40.6	0.0231	mg/L	0.00163	0.0231	mg/L	0.00163	7.06%
V 290.880†	-398.0	-0.00098	mg/L	0.001029	-0.00098	mg/L	0.001029	105.37%
Zn 206.200†	387.6	0.0113	mg/L	0.00020	0.0113	mg/L	0.00020	1.80%
K 766.490†	6042.1	2.29	mg/L	0.034	2.29	mg/L	0.034	1.48%
Na 589.592†	206453.7	15.0	mg/L	0.19	15.0	mg/L	0.19	1.24%
Sr 407.771†	172713.2	0.168	mg/L	0.0164	0.168	mg/L	0.0164	9.73%
Li 670.784†	100.7	0.00220	mg/L	0.002450	0.00220	mg/L	0.002450	111.39%

Sequence No.: 95 **Autosampler Location: 116**
Sample ID: L1102026603 **Date Collected: 2/19/2011 2:20:31 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026603

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102026603

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4782952.9						56917.14	1.19%
YRADIAL	314375.2						4805.89	1.53%
Ga 417.206	1132261.6						25492.44	2.25%
GaRADIAL	56905.0						819.26	1.44%
Ag 328.068†	453.6	0.00177	mg/L	0.001499	0.00177	mg/L	0.001499	84.54%
Al 396.153†	5990.2	1.20	mg/L	0.033	1.20	mg/L	0.033	2.80%
As 188.979†	24.5	0.0243	mg/L	0.00299	0.0243	mg/L	0.00299	12.30%
Ba 233.527†	3052.7	0.0515	mg/L	0.00047	0.0515	mg/L	0.00047	0.92%
Be 234.861†	2363.4	0.00062	mg/L	0.000226	0.00062	mg/L	0.000226	36.22%
B 249.677†	1290.9	0.103	mg/L	0.0002	0.103	mg/L	0.0002	0.15%
Ca 227.546†	2240.2	21.1	mg/L	0.26	21.1	mg/L	0.26	1.25%
Cd 228.802†	9.4	0.00056	mg/L	0.000321	0.00056	mg/L	0.000321	57.12%
Co 228.616†	117.9	0.00566	mg/L	0.000290	0.00566	mg/L	0.000290	5.12%
Cr 267.716†	1275.2	0.0107	mg/L	0.00051	0.0107	mg/L	0.00051	4.73%
Cu 327.393†	2958.7	0.0222	mg/L	0.00110	0.0222	mg/L	0.00110	4.95%
Fe 239.562†	7794.6	16.9	mg/L	0.25	16.9	mg/L	0.25	1.48%
Mg 279.077†	11984.1	14.6	mg/L	0.15	14.6	mg/L	0.15	1.00%
Mn 257.610†	67652.4	0.161	mg/L	0.0036	0.161	mg/L	0.0036	2.23%
Mo 202.031†	16.1	0.00213	mg/L	0.000193	0.00213	mg/L	0.000193	9.07%
Ni 231.604†	550.0	0.0161	mg/L	0.00017	0.0161	mg/L	0.00017	1.03%
Pb 220.353†	-10.3	-0.00144	mg/L	0.000728	-0.00144	mg/L	0.000728	50.64%

Sb 206.836†	3.7	0.00346	mg/L	0.002231	0.00346	mg/L	0.002231 64.50%
Se 196.026†	-19.0	-0.00485	mg/L	0.009707	-0.00485	mg/L	0.009707 200.11%
Si 251.611†	990496.5	29.0	mg/L	0.35	29.0	mg/L	0.35 1.20%
Sn 189.927†	9.6	0.00081	mg/L	0.000414	0.00081	mg/L	0.000414 51.35%
Ti 334.940†	20144.0	0.0279	mg/L	0.00074	0.0279	mg/L	0.00074 2.66%
Tl 190.801†	41.7	0.0238	mg/L	0.00339	0.0238	mg/L	0.00339 14.25%
V 290.880†	1159.7	0.0103	mg/L	0.00137	0.0103	mg/L	0.00137 13.34%
Zn 206.200†	1376.0	0.0410	mg/L	0.00065	0.0410	mg/L	0.00065 1.59%
K 766.490†	161883.9	62.4	mg/L	0.26	62.4	mg/L	0.26 0.42%
Na 589.592†	1748750.7	135	mg/L	0.8	135	mg/L	0.8 0.60%
Sr 407.771†	308008.5	0.300	mg/L	0.0069	0.300	mg/L	0.0069 2.30%
Li 670.784†	1088.0	0.0145	mg/L	0.00114	0.0145	mg/L	0.00114 7.87%

Sequence No.: 96 **Autosampler Location: 117**
Sample ID: L1102026604 **Date Collected: 2/19/2011 2:26:21 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026604

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026604

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4966242.8						20417.29	0.41%
YRADIAL	319814.8						5532.40	1.73%
Ga 417.206	1205664.1						6249.27	0.52%
GaRADIAL	59512.8						870.62	1.46%
Ag 328.068†	725.6	0.00264	mg/L	0.001097	0.00264	mg/L	0.001097	41.55%
Al 396.153†	7719.4	1.54	mg/L	0.042	1.54	mg/L	0.042	2.74%
As 188.979†	19.7	0.0197	mg/L	0.00107	0.0197	mg/L	0.00107	5.42%
Ba 233.527†	1759.9	0.0296	mg/L	0.00014	0.0296	mg/L	0.00014	0.48%
Be 234.861†	3447.3	0.00039	mg/L	0.000530	0.00039	mg/L	0.000530	134.82%
B 249.677†	3558.2	0.194	mg/L	0.0063	0.194	mg/L	0.0063	3.23%
Ca 227.546†	10614.6	100	mg/L	1.2	100	mg/L	1.2	1.20%
Cd 228.802†	232.4	0.0129	mg/L	0.00046	0.0129	mg/L	0.00046	3.53%
Co 228.616†	83.5	0.00369	mg/L	0.000272	0.00369	mg/L	0.000272	7.37%
Cr 267.716†	475.2	0.00364	mg/L	0.000169	0.00364	mg/L	0.000169	4.65%
Cu 327.393†	439.7	0.00589	mg/L	0.000453	0.00589	mg/L	0.000453	7.70%
Fe 239.562†	12536.1	27.2	mg/L	1.05	27.2	mg/L	1.05	3.86%
Mg 279.077†	4087.2	4.96	mg/L	0.167	4.96	mg/L	0.167	3.38%
Mn 257.610†	75217.5	0.172	mg/L	0.0016	0.172	mg/L	0.0016	0.93%
Mo 202.031†	16.0	0.00264	mg/L	0.000678	0.00264	mg/L	0.000678	25.67%
Ni 231.604†	49.7	0.00147	mg/L	0.000438	0.00147	mg/L	0.000438	29.89%
Pb 220.353†	75.4	0.0164	mg/L	0.00112	0.0164	mg/L	0.00112	6.83%
Sb 206.836†	7.7	0.00605	mg/L	0.004776	0.00605	mg/L	0.004776	78.88%
Se 196.026†	-44.4	0.00041	mg/L	0.002075	0.00041	mg/L	0.002075	509.64%
Si 251.611†	270911.6	7.92	mg/L	0.026	7.92	mg/L	0.026	0.33%
Sn 189.927†	5.4	0.00009	mg/L	0.000412	0.00009	mg/L	0.000412	471.01%
Ti 334.940†	4418.3	0.00704	mg/L	0.000406	0.00704	mg/L	0.000406	5.77%
Tl 190.801†	112.3	0.0582	mg/L	0.00324	0.0582	mg/L	0.00324	5.57%
V 290.880†	527.1	0.00684	mg/L	0.000627	0.00684	mg/L	0.000627	9.17%
Zn 206.200†	2887.2	0.0865	mg/L	0.00048	0.0865	mg/L	0.00048	0.56%
K 766.490†	37120.9	14.1	mg/L	0.09	14.1	mg/L	0.09	0.65%
Na 589.592†	123147.4	8.93	mg/L	0.006	8.93	mg/L	0.006	0.06%
Sr 407.771†	121613.5	0.116	mg/L	0.0031	0.116	mg/L	0.0031	2.64%
Li 670.784†	271.6	0.00433	mg/L	0.001827	0.00433	mg/L	0.001827	42.21%

Sequence No.: 97 **Autosampler Location: 118**
Sample ID: L1102026605 **Date Collected: 2/19/2011 2:32:04 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026605

Analyte	Back Pressure	Flow

All 168.0 kPa 0.50 L/min

Mean Data: L1102026605

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5114764.0						68403.41	1.34%
YRADIAL	316763.6						4259.94	1.34%
Ga 417.206	1212535.3						16492.84	1.36%
GaRADIAL	58695.9						1194.69	2.04%
Ag 328.068†	517.6	0.00230	mg/L	0.001320	0.00230	mg/L	0.001320	57.49%
Al 396.153†	1048.0	0.204	mg/L	0.0057	0.204	mg/L	0.0057	2.78%
As 188.979†	20.6	0.0199	mg/L	0.00044	0.0199	mg/L	0.00044	2.21%
Ba 233.527†	6011.3	0.102	mg/L	0.0018	0.102	mg/L	0.0018	1.78%
Be 234.861†	1497.3	0.00026	mg/L	0.000226	0.00026	mg/L	0.000226	86.77%
B 249.677†	156.5	0.0586	mg/L	0.00225	0.0586	mg/L	0.00225	3.84%
Ca 227.546†	3337.0	31.4	mg/L	0.25	31.4	mg/L	0.25	0.81%
Cd 228.802†	8.6	0.00061	mg/L	0.000169	0.00061	mg/L	0.000169	27.58%
Co 228.616†	240.2	0.0121	mg/L	0.00035	0.0121	mg/L	0.00035	2.91%
Cr 267.716†	143.3	0.00055	mg/L	0.000069	0.00055	mg/L	0.000069	12.49%
Cu 327.393†	-178.0	-0.00020	mg/L	0.000169	-0.00020	mg/L	0.000169	85.60%
Fe 239.562†	5374.1	11.6	mg/L	0.18	11.6	mg/L	0.18	1.55%
Mg 279.077†	4616.0	5.61	mg/L	0.083	5.61	mg/L	0.083	1.47%
Mn 257.610†	247056.8	0.559	mg/L	0.0042	0.559	mg/L	0.0042	0.75%
Mo 202.031†	1.3	0.00085	mg/L	0.000173	0.00085	mg/L	0.000173	20.30%
Ni 231.604†	91.5	0.00271	mg/L	0.000259	0.00271	mg/L	0.000259	9.59%
Pb 220.353†	-16.1	-0.00176	mg/L	0.000478	-0.00176	mg/L	0.000478	27.11%
Sb 206.836†	0.9	0.00177	mg/L	0.002956	0.00177	mg/L	0.002956	167.19%
Se 196.026†	-23.4	-0.00744	mg/L	0.000940	-0.00744	mg/L	0.000940	12.65%
Si 251.611†	330782.9	9.68	mg/L	0.131	9.68	mg/L	0.131	1.35%
Sn 189.927†	24.2	0.00332	mg/L	0.000814	0.00332	mg/L	0.000814	24.48%
Ti 334.940†	1203.4	0.00193	mg/L	0.000189	0.00193	mg/L	0.000189	9.77%
Tl 190.801†	57.9	0.0327	mg/L	0.00574	0.0327	mg/L	0.00574	17.55%
V 290.880†	-453.8	-0.00092	mg/L	0.000467	-0.00092	mg/L	0.000467	50.77%
Zn 206.200†	576.3	0.0168	mg/L	0.00039	0.0168	mg/L	0.00039	2.31%
K 766.490†	4481.7	1.70	mg/L	0.028	1.70	mg/L	0.028	1.66%
Na 589.592†	198536.9	14.4	mg/L	0.13	14.4	mg/L	0.13	0.93%
Sr 407.771†	246124.1	0.239	mg/L	0.0073	0.239	mg/L	0.0073	3.07%
Li 670.784†	462.7	0.00671	mg/L	0.001100	0.00671	mg/L	0.001100	16.40%

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Sequence No.: 98 **Autosampler Location: 119**
Sample ID: L1102026605PS WG356489-01 **Date Collected: 2/19/2011 2:37:47 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026605PS WG356489-01

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102026605PS WG356489-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4938805.4						47808.44	0.97%
YRADIAL	318709.6						3977.52	1.25%
Ga 417.206	1157476.5						18503.04	1.60%
GaRADIAL	57990.8						424.28	0.73%
Ag 328.068†	47553.9	0.236	mg/L	0.0042	0.236	mg/L	0.0042	1.78%
Al 396.153†	29907.0	5.98	mg/L	0.092	5.98	mg/L	0.092	1.53%
As 188.979†	275.0	0.251	mg/L	0.0066	0.251	mg/L	0.0066	2.64%
Ba 233.527†	33619.8	0.570	mg/L	0.0037	0.570	mg/L	0.0037	0.64%
Be 234.861†	19159.2	0.0310	mg/L	0.00077	0.0310	mg/L	0.00077	2.50%
B 249.677†	61355.8	1.21	mg/L	0.004	1.21	mg/L	0.004	0.32%
Ca 227.546†	3747.9	35.4	mg/L	0.14	35.4	mg/L	0.14	0.40%
Cd 228.802†	502.3	0.0275	mg/L	0.00026	0.0275	mg/L	0.00026	0.93%
Co 228.616†	2029.6	0.103	mg/L	0.0010	0.103	mg/L	0.0010	0.96%
Cr 267.716†	26769.5	0.236	mg/L	0.0007	0.236	mg/L	0.0007	0.28%
Cu 327.393†	42401.7	0.296	mg/L	0.0031	0.296	mg/L	0.0031	1.05%
Fe 239.562†	5572.7	12.1	mg/L	0.08	12.1	mg/L	0.08	0.69%
Mg 279.077†	7907.1	9.62	mg/L	0.112	9.62	mg/L	0.112	1.16%

Mn 257.610†	335164.0	0.760 mg/L	0.0030	0.760 mg/L	0.0030	0.39%
Mo 202.031†	6486.5	0.486 mg/L	0.0045	0.486 mg/L	0.0045	0.93%
Ni 231.604†	8223.0	0.239 mg/L	0.0021	0.239 mg/L	0.0021	0.87%
Pb 220.353†	1408.4	0.241 mg/L	0.0029	0.241 mg/L	0.0029	1.18%
Sb 206.836†	1115.1	0.717 mg/L	0.0052	0.717 mg/L	0.0052	0.73%
Se 196.026†	291.1	0.218 mg/L	0.0051	0.218 mg/L	0.0051	2.33%
Si 251.611†	416740.5	12.2 mg/L	0.08	12.2 mg/L	0.08	0.66%
Sn 189.927†	13.0	0.00139 mg/L	0.001021	0.00139 mg/L	0.001021	73.37%
Ti 334.940†	354277.5	0.487 mg/L	0.0055	0.487 mg/L	0.0055	1.14%
Tl 190.801†	461.8	0.277 mg/L	0.0052	0.277 mg/L	0.0052	1.87%
V 290.880†	70126.0	0.471 mg/L	0.0011	0.471 mg/L	0.0011	0.23%
Zn 206.200†	16150.3	0.490 mg/L	0.0054	0.490 mg/L	0.0054	1.09%
K 766.490†	76827.7	29.3 mg/L	0.16	29.3 mg/L	0.16	0.56%
Na 589.592†	574248.1	42.3 mg/L	0.11	42.3 mg/L	0.11	0.25%
Sr 407.771†	607172.5	0.593 mg/L	0.0080	0.593 mg/L	0.0080	1.34%
Li 670.784†	46166.1	0.576 mg/L	0.0040	0.576 mg/L	0.0040	0.69%

Sequence No.: 99 **Autosampler Location: 120**
Sample ID: L1102026605DL WG356489-02 **Date Collected: 2/19/2011 2:43:35 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026605DL WG356489-02

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026605DL WG356489-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5269833.4						29000.46	0.55%
YRADIAL	325621.0						6342.96	1.95%
Ga 417.206	1239185.6						11169.58	0.90%
GaRADIAL	59990.9						1590.54	2.65%
Ag 328.068†	41.1	0.00049	mg/L	0.000746	0.00049	mg/L	0.000746	151.08%
Al 396.153†	420.3	0.0774	mg/L	0.00373	0.0774	mg/L	0.00373	4.82%
As 188.979†	2.8	0.00274	mg/L	0.002080	0.00274	mg/L	0.002080	75.94%
Ba 233.527†	1200.7	0.0201	mg/L	0.00018	0.0201	mg/L	0.00018	0.89%
Be 234.861†	267.1	0.00001	mg/L	0.000082	0.00001	mg/L	0.000082	899.34%
B 249.677†	132.0	0.0145	mg/L	0.00197	0.0145	mg/L	0.00197	13.56%
Ca 227.546†	651.2	6.08	mg/L	0.073	6.08	mg/L	0.073	1.21%
Cd 228.802†	5.1	0.00044	mg/L	0.000051	0.00044	mg/L	0.000051	11.74%
Co 228.616†	52.2	0.00275	mg/L	0.000165	0.00275	mg/L	0.000165	6.01%
Cr 267.716†	31.9	-0.00025	mg/L	0.000056	-0.00025	mg/L	0.000056	22.71%
Cu 327.393†	-11.8	-0.00013	mg/L	0.000314	-0.00013	mg/L	0.000314	251.18%
Fe 239.562†	1034.8	2.24	mg/L	0.076	2.24	mg/L	0.076	3.39%
Mg 279.077†	893.0	1.08	mg/L	0.033	1.08	mg/L	0.033	3.02%
Mn 257.610†	49083.5	0.111	mg/L	0.0006	0.111	mg/L	0.0006	0.53%
Mo 202.031†	4.2	0.00051	mg/L	0.000231	0.00051	mg/L	0.000231	45.17%
Ni 231.604†	21.2	0.00067	mg/L	0.000108	0.00067	mg/L	0.000108	16.06%
Pb 220.353†	-8.2	-0.00117	mg/L	0.000884	-0.00117	mg/L	0.000884	75.30%
Sb 206.836†	0.4	0.00145	mg/L	0.001519	0.00145	mg/L	0.001519	105.01%
Se 196.026†	-0.5	-0.00064	mg/L	0.005545	-0.00064	mg/L	0.005545	860.73%
Si 251.611†	65624.1	1.92	mg/L	0.019	1.92	mg/L	0.019	0.99%
Sn 189.927†	12.3	0.00128	mg/L	0.001004	0.00128	mg/L	0.001004	78.25%
Ti 334.940†	592.8	0.00084	mg/L	0.000039	0.00084	mg/L	0.000039	4.68%
Tl 190.801†	13.6	0.00814	mg/L	0.000809	0.00814	mg/L	0.000809	9.94%
V 290.880†	-512.3	-0.00203	mg/L	0.000710	-0.00203	mg/L	0.000710	35.01%
Zn 206.200†	184.8	0.00519	mg/L	0.000089	0.00519	mg/L	0.000089	1.71%
K 766.490†	1039.7	0.409	mg/L	0.0426	0.409	mg/L	0.0426	10.41%
Na 589.592†	39597.9	2.86	mg/L	0.040	2.86	mg/L	0.040	1.39%
Sr 407.771†	51501.0	0.0499	mg/L	0.00446	0.0499	mg/L	0.00446	8.94%
Li 670.784†	67.6	0.00179	mg/L	0.001761	0.00179	mg/L	0.001761	98.52%

Sequence No.: 100 **Autosampler Location: 121**
Sample ID: L1102026606 **Date Collected: 2/19/2011 2:50:14 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026606

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026606

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5037015.1						119492.50	2.37%
YRADIAL	325481.7						4622.41	1.42%
Ga 417.206	1199565.4						42884.63	3.58%
GaRADIAL	59818.5						424.83	0.71%
Ag 328.068†	505.0	0.00223	mg/L	0.000902	0.00223	mg/L	0.000902	40.40%
Al 396.153†	830.6	0.160	mg/L	0.0132	0.160	mg/L	0.0132	8.22%
As 188.979†	21.1	0.0203	mg/L	0.00409	0.0203	mg/L	0.00409	20.17%
Ba 233.527†	5841.2	0.0987	mg/L	0.00186	0.0987	mg/L	0.00186	1.88%
Be 234.861†	1680.9	0.00057	mg/L	0.000169	0.00057	mg/L	0.000169	29.60%
B 249.677†	-84.2	0.0542	mg/L	0.00206	0.0542	mg/L	0.00206	3.81%
Ca 227.546†	3382.7	31.8	mg/L	0.73	31.8	mg/L	0.73	2.30%
Cd 228.802†	8.4	0.00059	mg/L	0.000135	0.00059	mg/L	0.000135	22.72%
Co 228.616†	232.1	0.0117	mg/L	0.00060	0.0117	mg/L	0.00060	5.15%
Cr 267.716†	103.3	0.00019	mg/L	0.000127	0.00019	mg/L	0.000127	65.56%
Cu 327.393†	-22.4	0.00088	mg/L	0.001223	0.00088	mg/L	0.001223	138.16%
Fe 239.562†	5383.6	11.7	mg/L	0.08	11.7	mg/L	0.08	0.67%
Mg 279.077†	4484.8	5.45	mg/L	0.040	5.45	mg/L	0.040	0.73%
Mn 257.610†	252452.2	0.572	mg/L	0.0102	0.572	mg/L	0.0102	1.78%
Mo 202.031†	5.0	0.00113	mg/L	0.000169	0.00113	mg/L	0.000169	14.96%
Ni 231.604†	71.2	0.00211	mg/L	0.000248	0.00211	mg/L	0.000248	11.74%
Pb 220.353†	-17.2	-0.00192	mg/L	0.000361	-0.00192	mg/L	0.000361	18.79%
Sb 206.836†	1.6	0.00221	mg/L	0.003837	0.00221	mg/L	0.003837	173.87%
Se 196.026†	-20.1	-0.00492	mg/L	0.002822	-0.00492	mg/L	0.002822	57.37%
Si 251.611†	330145.6	9.66	mg/L	0.274	9.66	mg/L	0.274	2.84%
Sn 189.927†	16.8	0.00205	mg/L	0.000462	0.00205	mg/L	0.000462	22.53%
Ti 334.940†	1306.5	0.00208	mg/L	0.000203	0.00208	mg/L	0.000203	9.79%
Tl 190.801†	58.3	0.0329	mg/L	0.00551	0.0329	mg/L	0.00551	16.74%
V 290.880†	-359.9	-0.00029	mg/L	0.000528	-0.00029	mg/L	0.000528	182.18%
Zn 206.200†	541.1	0.0158	mg/L	0.00049	0.0158	mg/L	0.00049	3.09%
K 766.490†	4097.1	1.56	mg/L	0.021	1.56	mg/L	0.021	1.37%
Na 589.592†	193612.3	14.1	mg/L	0.03	14.1	mg/L	0.03	0.24%
Sr 407.771†	238188.6	0.232	mg/L	0.0101	0.232	mg/L	0.0101	4.35%
Li 670.784†	267.1	0.00427	mg/L	0.000744	0.00427	mg/L	0.000744	17.41%

Sequence No.: 101 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 2/19/2011 2:55:58 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5051960.4						52557.49	1.04%
YRADIAL	314045.3						7558.29	2.41%
Ga 417.206	1159271.0						25664.14	2.21%
GaRADIAL	57957.9						442.45	0.76%
Ag 328.068†	92131.9	0.459	mg/L	0.0121	0.459	mg/L	0.0121	2.64%
Al 396.153†	57993.0	11.6	mg/L	0.03	11.6	mg/L	0.03	0.27%
As 188.979†	507.0	0.460	mg/L	0.0094	0.460	mg/L	0.0094	2.04%
Ba 233.527†	54741.0	0.929	mg/L	0.0123	0.929	mg/L	0.0123	1.32%
Be 234.861†	34521.7	0.0594	mg/L	0.00166	0.0594	mg/L	0.00166	2.79%
B 249.677†	30319.3	0.578	mg/L	0.0156	0.578	mg/L	0.0156	2.70%
Ca 227.546†	1181.9	11.4	mg/L	0.21	11.4	mg/L	0.21	1.88%
Cd 228.802†	1017.5	0.0555	mg/L	0.00161	0.0555	mg/L	0.00161	2.91%
Co 228.616†	3584.6	0.182	mg/L	0.0017	0.182	mg/L	0.0017	0.91%

Cr 267.716†	52268.3	0.462	mg/L	0.0059	0.462	mg/L	0.0059 1.27%
Cu 327.393†	83249.3	0.579	mg/L	0.0159	0.579	mg/L	0.0159 2.75%
Fe 239.562†	1656.4	3.59	mg/L	0.060	3.59	mg/L	0.060 1.68%
Mg 279.077†	7413.2	9.02	mg/L	0.168	9.02	mg/L	0.168 1.86%
Mn 257.610†	206272.8	0.470	mg/L	0.0065	0.470	mg/L	0.0065 1.38%
Mo 202.031†	12377.6	0.926	mg/L	0.0104	0.926	mg/L	0.0104 1.12%
Ni 231.604†	15895.7	0.463	mg/L	0.0086	0.463	mg/L	0.0086 1.86%
Pb 220.353†	2761.7	0.471	mg/L	0.0045	0.471	mg/L	0.0045 0.95%
Sb 206.836†	2214.6	1.42	mg/L	0.031	1.42	mg/L	0.031 2.21%
Se 196.026†	640.6	0.459	mg/L	0.0163	0.459	mg/L	0.0163 3.56%
Si 251.611†	197348.2	5.76	mg/L	0.161	5.76	mg/L	0.161 2.79%
Sn 189.927†	5375.7	0.927	mg/L	0.0090	0.927	mg/L	0.0090 0.98%
Ti 334.940†	683194.9	0.939	mg/L	0.0041	0.939	mg/L	0.0041 0.44%
Tl 190.801†	793.7	0.480	mg/L	0.0080	0.480	mg/L	0.0080 1.66%
V 290.880†	136122.3	0.912	mg/L	0.0144	0.912	mg/L	0.0144 1.58%
Zn 206.200†	30904.6	0.938	mg/L	0.0121	0.938	mg/L	0.0121 1.30%
K 766.490†	145703.5	56.1	mg/L	0.44	56.1	mg/L	0.44 0.78%
Na 589.592†	770899.5	57.3	mg/L	0.49	57.3	mg/L	0.49 0.85%
Sr 407.771†	838203.3	0.821	mg/L	0.0594	0.821	mg/L	0.0594 7.24%
Li 670.784†	90177.8	1.12	mg/L	0.004	1.12	mg/L	0.004 0.39%

Sequence No.: 102 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 2/19/2011 3:02:44 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5191907.9						46409.75	0.89%
YRADIAL	316461.5						8995.81	2.84%
Ga 417.206	1174497.2						18239.30	1.55%
GaRADIAL	58323.8						376.46	0.65%
Ag 328.068†	-38.8	0.00023	mg/L	0.001538	0.00023	mg/L	0.001538	658.60%
Al 396.153†	-29.3	-0.0129	mg/L	0.00961	-0.0129	mg/L	0.00961	74.73%
As 188.979†	2.9	0.00268	mg/L	0.001509	0.00268	mg/L	0.001509	56.37%
Ba 233.527†	5.7	-0.00010	mg/L	0.000108	-0.00010	mg/L	0.000108	106.55%
Be 234.861†	-164.2	-0.00029	mg/L	0.000042	-0.00029	mg/L	0.000042	14.58%
B 249.677†	234.0	0.00610	mg/L	0.000456	0.00610	mg/L	0.000456	7.48%
Ca 227.546†	-3.7	-0.0883	mg/L	0.07398	-0.0883	mg/L	0.07398	83.81%
Cd 228.802†	8.5	0.00060	mg/L	0.000107	0.00060	mg/L	0.000107	18.02%
Co 228.616†	3.9	0.00034	mg/L	0.000213	0.00034	mg/L	0.000213	62.81%
Cr 267.716†	3.5	-0.00045	mg/L	0.000046	-0.00045	mg/L	0.000046	10.26%
Cu 327.393†	-131.3	-0.00121	mg/L	0.000427	-0.00121	mg/L	0.000427	35.24%
Fe 239.562†	1.1	-0.00144	mg/L	0.005399	-0.00144	mg/L	0.005399	374.33%
Mg 279.077†	-7.2	-0.0125	mg/L	0.00498	-0.0125	mg/L	0.00498	39.91%
Mn 257.610†	20.2	-0.00022	mg/L	0.000014	-0.00022	mg/L	0.000014	6.09%
Mo 202.031†	6.3	0.00053	mg/L	0.000480	0.00053	mg/L	0.000480	90.13%
Ni 231.604†	-11.5	-0.00028	mg/L	0.000145	-0.00028	mg/L	0.000145	51.87%
Pb 220.353†	-8.3	-0.00138	mg/L	0.000997	-0.00138	mg/L	0.000997	72.11%
Sb 206.836†	-0.5	0.00082	mg/L	0.001848	0.00082	mg/L	0.001848	224.37%
Se 196.026†	1.8	-0.00130	mg/L	0.003450	-0.00130	mg/L	0.003450	266.27%
Si 251.611†	197.7	0.00528	mg/L	0.000313	0.00528	mg/L	0.000313	5.92%
Sn 189.927†	4.9	0.00000	mg/L	0.000150	0.00000	mg/L	0.000150	>999.9%
Ti 334.940†	250.3	0.00031	mg/L	0.000201	0.00031	mg/L	0.000201	65.71%
Tl 190.801†	4.8	0.00327	mg/L	0.001181	0.00327	mg/L	0.001181	36.13%
V 290.880†	-517.6	-0.00223	mg/L	0.000058	-0.00223	mg/L	0.000058	2.59%
Zn 206.200†	21.1	0.00029	mg/L	0.000019	0.00029	mg/L	0.000019	6.61%
K 766.490†	31.6	0.0302	mg/L	0.00989	0.0302	mg/L	0.00989	32.73%
Na 589.592†	-410.5	-0.0265	mg/L	0.00827	-0.0265	mg/L	0.00827	31.20%
Sr 407.771†	84.0	-0.00019	mg/L	0.000091	-0.00019	mg/L	0.000091	47.10%
Li 670.784†	-54.2	0.00027	mg/L	0.000731	0.00027	mg/L	0.000731	270.70%

Sequence No.: 103 **Autosampler Location: 3**

Sample ID: LLCCV **Date Collected: 2/19/2011 3:09:23 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5152868.5						47679.73	0.93%
YRADIAL	321215.7						12533.59	3.90%
Ga 417.206	1180177.5						8400.77	0.71%
GaRADIAL	58681.3						961.64	1.64%
Ag 328.068†	1993.7	0.0103	mg/L	0.00047	0.0103	mg/L	0.00047	4.54%
Al 396.153†	1268.0	0.247	mg/L	0.0020	0.247	mg/L	0.0020	0.82%
As 188.979†	11.0	0.0100	mg/L	0.00067	0.0100	mg/L	0.00067	6.67%
Ba 233.527†	1183.4	0.0199	mg/L	0.00020	0.0199	mg/L	0.00020	1.01%
Be 234.861†	560.5	0.00096	mg/L	0.000009	0.00096	mg/L	0.000009	0.90%
B 249.677†	738.4	0.0157	mg/L	0.00058	0.0157	mg/L	0.00058	3.73%
Ca 227.546†	19.1	0.134	mg/L	0.0855	0.134	mg/L	0.0855	63.93%
Cd 228.802†	25.9	0.00156	mg/L	0.000142	0.00156	mg/L	0.000142	9.13%
Co 228.616†	81.5	0.00427	mg/L	0.000011	0.00427	mg/L	0.000011	0.27%
Cr 267.716†	1155.9	0.00974	mg/L	0.000119	0.00974	mg/L	0.000119	1.22%
Cu 327.393†	1655.2	0.0112	mg/L	0.00140	0.0112	mg/L	0.00140	12.46%
Fe 239.562†	35.0	0.0721	mg/L	0.00176	0.0721	mg/L	0.00176	2.44%
Mg 279.077†	149.1	0.178	mg/L	0.0046	0.178	mg/L	0.0046	2.58%
Mn 257.610†	4487.4	0.00996	mg/L	0.000099	0.00996	mg/L	0.000099	0.99%
Mo 202.031†	263.7	0.0198	mg/L	0.00061	0.0198	mg/L	0.00061	3.08%
Ni 231.604†	326.4	0.00955	mg/L	0.000063	0.00955	mg/L	0.000063	0.66%
Pb 220.353†	52.7	0.00902	mg/L	0.000313	0.00902	mg/L	0.000313	3.47%
Sb 206.836†	45.2	0.0302	mg/L	0.00206	0.0302	mg/L	0.00206	6.82%
Se 196.026†	13.5	0.00716	mg/L	0.006925	0.00716	mg/L	0.006925	96.67%
Si 251.611†	4235.9	0.123	mg/L	0.0013	0.123	mg/L	0.0013	1.09%
Sn 189.927†	121.0	0.0200	mg/L	0.00025	0.0200	mg/L	0.00025	1.25%
Ti 334.940†	14488.4	0.0199	mg/L	0.00039	0.0199	mg/L	0.00039	1.95%
Tl 190.801†	20.2	0.0126	mg/L	0.00073	0.0126	mg/L	0.00073	5.77%
V 290.880†	2536.9	0.0182	mg/L	0.00047	0.0182	mg/L	0.00047	2.58%
Zn 206.200†	708.9	0.0212	mg/L	0.00034	0.0212	mg/L	0.00034	1.59%
K 766.490†	3206.5	1.23	mg/L	0.032	1.23	mg/L	0.032	2.60%
Na 589.592†	16345.1	1.18	mg/L	0.022	1.18	mg/L	0.022	1.83%
Sr 407.771†	17861.9	0.0172	mg/L	0.00126	0.0172	mg/L	0.00126	7.34%
Li 670.784†	1940.1	0.0251	mg/L	0.00081	0.0251	mg/L	0.00081	3.23%

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Sequence No.: 104 **Autosampler Location: 122**
Sample ID: L1102026607 **Date Collected: 2/19/2011 3:16:01 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026607

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026607

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4742840.9						44333.90	0.93%
YRADIAL	318122.4						4175.43	1.31%
Ga 417.206	1113274.2						16394.09	1.47%
GaRADIAL	57220.8						588.70	1.03%
Ag 328.068†	910.5	0.00412	mg/L	0.000691	0.00412	mg/L	0.000691	16.77%
Al 396.153†	1001.9	0.195	mg/L	0.0081	0.195	mg/L	0.0081	4.17%
As 188.979†	17.3	0.0155	mg/L	0.00803	0.0155	mg/L	0.00803	51.87%
Ba 233.527†	2509.2	0.0424	mg/L	0.00054	0.0424	mg/L	0.00054	1.28%
Be 234.861†	2351.9	0.00076	mg/L	0.000048	0.00076	mg/L	0.000048	6.34%

B 249.677†	1498.8	0.105	mg/L	0.0037	0.105	mg/L	0.0037 3.53%
Ca 227.546†	14197.6	134	mg/L	1.3	134	mg/L	1.3 0.94%
Cd 228.802†	10.0	0.00061	mg/L	0.000069	0.00061	mg/L	0.000069 11.31%
Co 228.616†	63.4	0.00283	mg/L	0.000486	0.00283	mg/L	0.000486 17.17%
Cr 267.716†	1511.8	0.0129	mg/L	0.00008	0.0129	mg/L	0.00008 0.63%
Cu 327.393†	-672.9	-0.00302	mg/L	0.000879	-0.00302	mg/L	0.000879 29.10%
Fe 239.562†	7440.0	16.1	mg/L	0.37	16.1	mg/L	0.37 2.32%
Mg 279.077†	13346.4	16.2	mg/L	0.36	16.2	mg/L	0.36 2.20%
Mn 257.610†	59437.0	0.146	mg/L	0.0008	0.146	mg/L	0.0008 0.54%
Mo 202.031†	21.6	0.00252	mg/L	0.000480	0.00252	mg/L	0.000480 19.06%
Ni 231.604†	283.5	0.00826	mg/L	0.000196	0.00826	mg/L	0.000196 2.37%
Pb 220.353†	-25.0	0.00150	mg/L	0.000416	0.00150	mg/L	0.000416 27.71%
Sb 206.836†	10.9	0.00807	mg/L	0.002683	0.00807	mg/L	0.002683 33.27%
Se 196.026†	-56.1	-0.00339	mg/L	0.003992	-0.00339	mg/L	0.003992 117.65%
Si 251.611†	1019053.8	29.8	mg/L	0.36	29.8	mg/L	0.36 1.21%
Sn 189.927†	14.2	0.00161	mg/L	0.000467	0.00161	mg/L	0.000467 29.05%
Ti 334.940†	41058.1	0.0578	mg/L	0.00044	0.0578	mg/L	0.00044 0.77%
Tl 190.801†	135.2	0.0693	mg/L	0.00403	0.0693	mg/L	0.00403 5.81%
V 290.880†	5925.2	0.0421	mg/L	0.00144	0.0421	mg/L	0.00144 3.42%
Zn 206.200†	895.5	0.0264	mg/L	0.00051	0.0264	mg/L	0.00051 1.94%
K 766.490†	527445.7	214	mg/L	1.2	214	mg/L	1.2 0.55%
Na 589.592†	2354489.2	188	mg/L	1.0	188	mg/L	1.0 0.56%
Sr 407.771†	396928.1	0.387	mg/L	0.0091	0.387	mg/L	0.0091 2.34%
Li 670.784†	1228.4	0.0162	mg/L	0.00233	0.0162	mg/L	0.00233 14.36%

Sequence No.: 105 **Autosampler Location: 123**
Sample ID: L1102026608 **Date Collected: 2/19/2011 3:21:51 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026608

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026608

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5054758.7						37630.90	0.74%
YRADIAL	319437.6						4687.26	1.47%
Ga 417.206	1208272.5						16309.60	1.35%
GaRADIAL	59798.6						966.94	1.62%
Ag 328.068†	128.0	0.00087	mg/L	0.000074	0.00087	mg/L	0.000074	8.54%
Al 396.153†	4354.3	0.866	mg/L	0.0105	0.866	mg/L	0.0105	1.21%
As 188.979†	4.9	0.00447	mg/L	0.002164	0.00447	mg/L	0.002164	48.46%
Ba 233.527†	7021.7	0.119	mg/L	0.0023	0.119	mg/L	0.0023	1.97%
Be 234.861†	392.8	-0.00012	mg/L	0.000158	-0.00012	mg/L	0.000158	134.35%
B 249.677†	2181.4	0.0600	mg/L	0.00284	0.0600	mg/L	0.00284	4.74%
Ca 227.546†	2734.1	25.7	mg/L	0.35	25.7	mg/L	0.35	1.37%
Cd 228.802†	3.5	0.00031	mg/L	0.000135	0.00031	mg/L	0.000135	44.21%
Co 228.616†	4.0	0.00018	mg/L	0.000284	0.00018	mg/L	0.000284	157.72%
Cr 267.716†	210.5	0.00136	mg/L	0.000131	0.00136	mg/L	0.000131	9.62%
Cu 327.393†	-97.0	-0.00051	mg/L	0.000588	-0.00051	mg/L	0.000588	114.68%
Fe 239.562†	1786.1	3.87	mg/L	0.059	3.87	mg/L	0.059	1.51%
Mg 279.077†	1124.4	1.36	mg/L	0.028	1.36	mg/L	0.028	2.06%
Mn 257.610†	7112.6	0.0177	mg/L	0.00013	0.0177	mg/L	0.00013	0.76%
Mo 202.031†	10.3	0.00103	mg/L	0.000039	0.00103	mg/L	0.000039	3.77%
Ni 231.604†	15.4	0.00049	mg/L	0.000141	0.00049	mg/L	0.000141	28.92%
Pb 220.353†	-6.8	-0.00003	mg/L	0.000402	-0.00003	mg/L	0.000402	>999.9%
Sb 206.836†	6.0	0.00498	mg/L	0.002890	0.00498	mg/L	0.002890	58.00%
Se 196.026†	-19.7	-0.00891	mg/L	0.003947	-0.00891	mg/L	0.003947	44.28%
Si 251.611†	158856.3	4.65	mg/L	0.090	4.65	mg/L	0.090	1.94%
Sn 189.927†	3.9	-0.00018	mg/L	0.000402	-0.00018	mg/L	0.000402	229.27%
Ti 334.940†	6860.5	0.00965	mg/L	0.000284	0.00965	mg/L	0.000284	2.94%
Tl 190.801†	47.3	0.0263	mg/L	0.00147	0.0263	mg/L	0.00147	5.61%
V 290.880†	348.2	0.00385	mg/L	0.001373	0.00385	mg/L	0.001373	35.65%
Zn 206.200†	126.7	0.00340	mg/L	0.000068	0.00340	mg/L	0.000068	2.00%
K 766.490†	107418.4	41.2	mg/L	0.33	41.2	mg/L	0.33	0.81%
Na 589.592†	205299.2	14.9	mg/L	0.06	14.9	mg/L	0.06	0.42%
Sr 407.771†	46939.0	0.0453	mg/L	0.00388	0.0453	mg/L	0.00388	8.58%

Li 670.784†	66.6	0.00177	mg/L	0.002298	0.00177	mg/L	0.002298 129.49%

Sequence No.: 106 **Autosampler Location: 124**
Sample ID: L1102026609 **Date Collected: 2/19/2011 3:28:31 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026609

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102026609

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5298500.1						10600.33	0.20%
YRADIAL	330038.8						10226.43	3.10%
Ga 417.206	1280401.2						9457.36	0.74%
GaRADIAL	61456.6						1064.25	1.73%
Ag 328.068†	74.9	0.00071	mg/L	0.000112	0.00071	mg/L	0.000112	15.88%
Al 396.153†	849.7	0.163	mg/L	0.0068	0.163	mg/L	0.0068	4.17%
As 188.979†	5.4	0.00506	mg/L	0.001127	0.00506	mg/L	0.001127	22.29%
Ba 233.527†	1259.6	0.0211	mg/L	0.00011	0.0211	mg/L	0.00011	0.50%
Be 234.861†	167.6	-0.00007	mg/L	0.000141	-0.00007	mg/L	0.000141	208.80%
B 249.677†	1124.4	0.0308	mg/L	0.00030	0.0308	mg/L	0.00030	0.99%
Ca 227.546†	829.8	7.76	mg/L	0.060	7.76	mg/L	0.060	0.77%
Cd 228.802†	4.3	0.00035	mg/L	0.000060	0.00035	mg/L	0.000060	17.02%
Co 228.616†	4.6	0.00032	mg/L	0.000150	0.00032	mg/L	0.000150	46.77%
Cr 267.716†	48.7	-0.00005	mg/L	0.000003	-0.00005	mg/L	0.000003	6.24%
Cu 327.393†	95.5	0.00056	mg/L	0.000400	0.00056	mg/L	0.000400	71.12%
Fe 239.562†	793.2	1.72	mg/L	0.047	1.72	mg/L	0.047	2.72%
Mg 279.077†	331.3	0.399	mg/L	0.0104	0.399	mg/L	0.0104	2.62%
Mn 257.610†	3738.7	0.00887	mg/L	0.000182	0.00887	mg/L	0.000182	2.06%
Mo 202.031†	7.9	0.00074	mg/L	0.000200	0.00074	mg/L	0.000200	26.90%
Ni 231.604†	-11.9	-0.00030	mg/L	0.000229	-0.00030	mg/L	0.000229	77.21%
Pb 220.353†	-8.9	-0.00119	mg/L	0.000704	-0.00119	mg/L	0.000704	59.31%
Sb 206.836†	1.2	0.00192	mg/L	0.000897	0.00192	mg/L	0.000897	46.76%
Se 196.026†	-7.0	-0.00501	mg/L	0.003983	-0.00501	mg/L	0.003983	79.44%
Si 251.611†	98772.0	2.89	mg/L	0.028	2.89	mg/L	0.028	0.96%
Sn 189.927†	1.4	-0.00061	mg/L	0.000614	-0.00061	mg/L	0.000614	101.04%
Ti 334.940†	1359.6	0.00191	mg/L	0.000327	0.00191	mg/L	0.000327	17.14%
Tl 190.801†	19.7	0.0114	mg/L	0.00350	0.0114	mg/L	0.00350	30.63%
V 290.880†	-383.4	-0.00121	mg/L	0.000520	-0.00121	mg/L	0.000520	43.11%
Zn 206.200†	192.1	0.00543	mg/L	0.000130	0.00543	mg/L	0.000130	2.39%
K 766.490†	4225.7	1.61	mg/L	0.046	1.61	mg/L	0.046	2.88%
Na 589.592†	79997.9	5.79	mg/L	0.049	5.79	mg/L	0.049	0.84%
Sr 407.771†	21271.7	0.0204	mg/L	0.00142	0.0204	mg/L	0.00142	6.97%
Li 670.784†	-88.8	-0.00016	mg/L	0.001039	-0.00016	mg/L	0.001039	647.05%

Sequence No.: 107 **Autosampler Location: 125**
Sample ID: L1102026610 **Date Collected: 2/19/2011 3:35:12 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026610

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026610

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5180933.3						59284.47	1.14%
YRADIAL	327851.0						9017.44	2.75%
Ga 417.206	1226675.3						26955.69	2.20%
GaRADIAL	60771.3						711.21	1.17%
Ag 328.068†	-117.5	-0.00029	mg/L	0.000266	-0.00029	mg/L	0.000266	93.28%

Al 396.153†	1951.1	0.384	mg/L	0.0075	0.384	mg/L	0.0075 1.95%
As 188.979†	3.2	0.00316	mg/L	0.003450	0.00316	mg/L	0.003450 109.06%
Ba 233.527†	1339.3	0.0225	mg/L	0.00024	0.0225	mg/L	0.00024 1.07%
Be 234.861†	270.6	-0.00006	mg/L	0.000110	-0.00006	mg/L	0.000110 174.59%
B 249.677†	1103.6	0.0340	mg/L	0.00131	0.0340	mg/L	0.00131 3.85%
Ca 227.546†	514.6	4.80	mg/L	0.166	4.80	mg/L	0.166 3.45%
Cd 228.802†	9.0	0.00063	mg/L	0.000155	0.00063	mg/L	0.000155 24.78%
Co 228.616†	10.0	0.00057	mg/L	0.000025	0.00057	mg/L	0.000025 4.44%
Cr 267.716†	75.1	0.00017	mg/L	0.000185	0.00017	mg/L	0.000185 106.54%
Cu 327.393†	9.2	0.00007	mg/L	0.000309	0.00007	mg/L	0.000309 469.87%
Fe 239.562†	1183.3	2.56	mg/L	0.046	2.56	mg/L	0.046 1.79%
Mg 279.077†	332.0	0.399	mg/L	0.0059	0.399	mg/L	0.0059 1.47%
Mn 257.610†	4868.9	0.0116	mg/L	0.00031	0.0116	mg/L	0.00031 2.67%
Mo 202.031†	5.1	0.00058	mg/L	0.000275	0.00058	mg/L	0.000275 47.70%
Ni 231.604†	1.0	0.00008	mg/L	0.000272	0.00008	mg/L	0.000272 342.49%
Pb 220.353†	-8.1	-0.00122	mg/L	0.000594	-0.00122	mg/L	0.000594 48.80%
Sb 206.836†	-0.9	0.00058	mg/L	0.001279	0.00058	mg/L	0.001279 221.79%
Se 196.026†	-1.6	-0.00162	mg/L	0.001563	-0.00162	mg/L	0.001563 96.16%
Si 251.611†	118190.1	3.46	mg/L	0.124	3.46	mg/L	0.124 3.59%
Sn 189.927†	1.1	-0.00066	mg/L	0.000463	-0.00066	mg/L	0.000463 69.83%
Ti 334.940†	3977.2	0.00548	mg/L	0.000393	0.00548	mg/L	0.000393 7.18%
Tl 190.801†	15.7	0.00938	mg/L	0.000292	0.00938	mg/L	0.000292 3.11%
V 290.880†	-189.4	0.00016	mg/L	0.000472	0.00016	mg/L	0.000472 299.06%
Zn 206.200†	184.9	0.00519	mg/L	0.000170	0.00519	mg/L	0.000170 3.27%
K 766.490†	3899.8	1.49	mg/L	0.010	1.49	mg/L	0.010 0.70%
Na 589.592†	80014.0	5.79	mg/L	0.045	5.79	mg/L	0.045 0.77%
Sr 407.771†	12640.9	0.0118	mg/L	0.00096	0.0118	mg/L	0.00096 8.16%
Li 670.784†	-91.5	-0.00019	mg/L	0.001649	-0.00019	mg/L	0.001649 847.81%

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Sequence No.: 108 **Autosampler Location: 126**
Sample ID: L1102026611 **Date Collected: 2/19/2011 3:41:51 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026611

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102026611

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4694533.2						41492.40	0.88%
YRADIAL	301699.3						5180.04	1.72%
Ga 417.206	1063506.0						12244.01	1.15%
GaRADIAL	55169.0						788.54	1.43%
Ag 328.068†	205.8	-0.00372	mg/L	0.001835	-0.00372	mg/L	0.001835	49.30%
Al 396.153†	9576.5	1.92	mg/L	0.018	1.92	mg/L	0.018	0.91%
As 188.979†	50.0	0.0574	mg/L	0.00262	0.0574	mg/L	0.00262	4.56%
Ba 233.527†	8137.4	0.138	mg/L	0.0008	0.138	mg/L	0.0008	0.55%
Be 234.861†	15327.8	0.00570	mg/L	0.000622	0.00570	mg/L	0.000622	10.90%
B 249.677†	-9786.5	0.286	mg/L	0.0087	0.286	mg/L	0.0087	3.04%
Ca 227.546†	13067.5	123	mg/L	0.4	123	mg/L	0.4	0.31%
Cd 228.802†	15.7	0.00070	mg/L	0.000248	0.00070	mg/L	0.000248	35.49%
Co 228.616†	217.6	0.00854	mg/L	0.000117	0.00854	mg/L	0.000117	1.37%
Cr 267.716†	1903.0	0.0161	mg/L	0.00006	0.0161	mg/L	0.00006	0.39%
Cu 327.393†	5640.1	0.0505	mg/L	0.00049	0.0505	mg/L	0.00049	0.96%
Fe 239.562†	46697.9	101	mg/L	0.2	101	mg/L	0.2	0.16%
Mg 279.077†	14034.0	17.0	mg/L	0.07	17.0	mg/L	0.07	0.40%
Mn 257.610†	272449.6	0.630	mg/L	0.0031	0.630	mg/L	0.0031	0.50%
Mo 202.031†	-1.8	0.00507	mg/L	0.000327	0.00507	mg/L	0.000327	6.45%
Ni 231.604†	513.6	0.0150	mg/L	0.00011	0.0150	mg/L	0.00011	0.74%
Pb 220.353†	-19.5	-0.00185	mg/L	0.001112	-0.00185	mg/L	0.001112	60.05%
Sb 206.836†	15.9	0.0112	mg/L	0.00156	0.0112	mg/L	0.00156	13.89%
Se 196.026†	-109.8	-0.0135	mg/L	0.00628	-0.0135	mg/L	0.00628	46.44%
Si 251.611†	1302243.8	38.1	mg/L	0.22	38.1	mg/L	0.22	0.58%
Sn 189.927†	-22.0	-0.00464	mg/L	0.000700	-0.00464	mg/L	0.000700	15.08%
Ti 334.940†	19332.5	0.0278	mg/L	0.00025	0.0278	mg/L	0.00025	0.89%
Tl 190.801†	123.5	0.0636	mg/L	0.00655	0.0636	mg/L	0.00655	10.30%
V 290.880†	3072.0	0.0295	mg/L	0.00094	0.0295	mg/L	0.00094	3.19%

Zn 206.200†	1557.9	0.0446 mg/L	0.00054	0.0446 mg/L	0.00054	1.22%
K 766.490†	235454.4	91.5 mg/L	0.27	91.5 mg/L	0.27	0.30%
Na 589.592†	3282992.2	275 mg/L	7.4	275 mg/L	7.4	2.68%
Sr 407.771†	425469.9	0.404 mg/L	0.0181	0.404 mg/L	0.0181	4.48%
Li 670.784†	831.4	0.0113 mg/L	0.00132	0.0113 mg/L	0.00132	11.72%

Sequence No.: 109 **Autosampler Location: 127**
Sample ID: L1102026612 W356433-01 **Date Collected: 2/19/2011 3:47:36 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026612 W356433-01

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102026612 W356433-01

	Mean Corrected	Calib.			Sample		
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	5119102.3						43212.33	0.84%
YRADIAL	323059.4						11392.20	3.53%
Ga 417.206	1215164.5						6298.62	0.52%
GaRADIAL	59866.6						712.12	1.19%
Ag 328.068†	-53.7	-0.00006	mg/L	0.000605	-0.00006	mg/L	0.000605	>999.9%
Al 396.153†	1244.7	0.243	mg/L	0.0072	0.243	mg/L	0.0072	2.96%
As 188.979†	3.6	0.00383	mg/L	0.001348	0.00383	mg/L	0.001348	35.23%
Ba 233.527†	1192.2	0.0200	mg/L	0.00028	0.0200	mg/L	0.00028	1.42%
Be 234.861†	565.1	0.00008	mg/L	0.000055	0.00008	mg/L	0.000055	67.96%
B 249.677†	1404.8	0.0482	mg/L	0.00099	0.0482	mg/L	0.00099	2.06%
Ca 227.546†	359.1	3.34	mg/L	0.024	3.34	mg/L	0.024	0.73%
Cd 228.802†	6.3	0.00048	mg/L	0.000167	0.00048	mg/L	0.000167	35.06%
Co 228.616†	17.3	0.00090	mg/L	0.000169	0.00090	mg/L	0.000169	18.74%
Cr 267.716†	49.5	-0.00006	mg/L	0.000057	-0.00006	mg/L	0.000057	100.54%
Cu 327.393†	-159.3	-0.00090	mg/L	0.000993	-0.00090	mg/L	0.000993	110.20%
Fe 239.562†	2004.9	4.34	mg/L	0.095	4.34	mg/L	0.095	2.20%
Mg 279.077†	994.4	1.20	mg/L	0.038	1.20	mg/L	0.038	3.15%
Mn 257.610†	14395.1	0.0332	mg/L	0.00068	0.0332	mg/L	0.00068	2.05%
Mo 202.031†	0.6	0.00033	mg/L	0.000170	0.00033	mg/L	0.000170	51.23%
Ni 231.604†	0.0	0.00005	mg/L	0.000207	0.00005	mg/L	0.000207	378.77%
Pb 220.353†	-12.5	-0.00212	mg/L	0.000952	-0.00212	mg/L	0.000952	44.94%
Sb 206.836†	-0.0	0.00115	mg/L	0.000758	0.00115	mg/L	0.000758	66.07%
Se 196.026†	-4.4	-0.00333	mg/L	0.004755	-0.00333	mg/L	0.004755	142.74%
Si 251.611†	130685.1	3.82	mg/L	0.110	3.82	mg/L	0.110	2.87%
Sn 189.927†	0.2	-0.00081	mg/L	0.000501	-0.00081	mg/L	0.000501	61.56%
Ti 334.940†	2018.7	0.00277	mg/L	0.000300	0.00277	mg/L	0.000300	10.84%
Tl 190.801†	8.5	0.00526	mg/L	0.002380	0.00526	mg/L	0.002380	45.24%
V 290.880†	-70.2	0.00109	mg/L	0.000512	0.00109	mg/L	0.000512	46.86%
Zn 206.200†	132.1	0.00355	mg/L	0.000159	0.00355	mg/L	0.000159	4.47%
K 766.490†	2699.4	1.03	mg/L	0.021	1.03	mg/L	0.021	2.04%
Na 589.592†	116264.3	8.43	mg/L	0.084	8.43	mg/L	0.084	1.00%
Sr 407.771†	16977.1	0.0158	mg/L	0.00136	0.0158	mg/L	0.00136	8.60%
Li 670.784†	-118.5	-0.00053	mg/L	0.000382	-0.00053	mg/L	0.000382	72.13%

Sequence No.: 110 **Autosampler Location: 128**
Sample ID: L1102026612S WG356433-04 **Date Collected: 2/19/2011 3:54:15 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026612S WG356433-04

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026612S WG356433-04

	Mean Corrected	Calib.			Sample		
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	5181254.8						53458.25	1.03%

YRADIAL	322140.8				3343.71	1.04%
Ga 417.206	1215443.8				16702.65	1.37%
GaRADIAL	59185.9				1090.66	1.84%
Ag 328.068†	44488.7	0.222 mg/L	0.0031	0.222 mg/L	0.0031	1.38%
Al 396.153†	30392.4	6.08 mg/L	0.040	6.08 mg/L	0.040	0.65%
As 188.979†	246.6	0.224 mg/L	0.0035	0.224 mg/L	0.0035	1.55%
Ba 233.527†	27975.3	0.475 mg/L	0.0026	0.475 mg/L	0.0026	0.54%
Be 234.861†	16967.5	0.0283 mg/L	0.00022	0.0283 mg/L	0.00022	0.76%
B 249.677†	59216.9	1.14 mg/L	0.013	1.14 mg/L	0.013	1.17%
Ca 227.546†	938.2	8.94 mg/L	0.041	8.94 mg/L	0.041	0.46%
Cd 228.802†	489.3	0.0268 mg/L	0.00027	0.0268 mg/L	0.00027	1.02%
Co 228.616†	1769.5	0.0896 mg/L	0.00068	0.0896 mg/L	0.00068	0.76%
Cr 267.716†	25386.2	0.224 mg/L	0.0006	0.224 mg/L	0.0006	0.26%
Cu 327.393†	40307.0	0.281 mg/L	0.0052	0.281 mg/L	0.0052	1.86%
Fe 239.562†	2787.2	6.04 mg/L	0.072	6.04 mg/L	0.072	1.20%
Mg 279.077†	4667.2	5.68 mg/L	0.059	5.68 mg/L	0.059	1.04%
Mn 257.610†	115391.1	0.263 mg/L	0.0011	0.263 mg/L	0.0011	0.40%
Mo 202.031†	6051.7	0.453 mg/L	0.0026	0.453 mg/L	0.0026	0.56%
Ni 231.604†	7725.6	0.225 mg/L	0.0016	0.225 mg/L	0.0016	0.73%
Pb 220.353†	1347.4	0.230 mg/L	0.0010	0.230 mg/L	0.0010	0.45%
Sb 206.836†	1069.2	0.688 mg/L	0.0080	0.688 mg/L	0.0080	1.17%
Se 196.026†	297.5	0.214 mg/L	0.0040	0.214 mg/L	0.0040	1.86%
Si 251.611†	230009.6	6.72 mg/L	0.070	6.72 mg/L	0.070	1.04%
Sn 189.927†	2817.0	0.485 mg/L	0.0034	0.485 mg/L	0.0034	0.69%
Ti 334.940†	341450.1	0.470 mg/L	0.0059	0.470 mg/L	0.0059	1.25%
Tl 190.801†	404.8	0.245 mg/L	0.0045	0.245 mg/L	0.0045	1.82%
V 290.880†	66277.9	0.445 mg/L	0.0008	0.445 mg/L	0.0008	0.18%
Zn 206.200†	14880.9	0.451 mg/L	0.0045	0.451 mg/L	0.0045	0.99%
K 766.490†	74292.1	28.3 mg/L	0.30	28.3 mg/L	0.30	1.07%
Na 589.592†	497213.3	36.5 mg/L	0.27	36.5 mg/L	0.27	0.74%
Sr 407.771†	425052.2	0.415 mg/L	0.0402	0.415 mg/L	0.0402	9.67%
Li 670.784†	45016.2	0.562 mg/L	0.0013	0.562 mg/L	0.0013	0.23%

Sequence No.: 111 **Autosampler Location: 129**
Sample ID: L1102026612SD WG356433-05 **Date Collected: 2/19/2011 4:00:56 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026612SD WG356433-05

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026612SD WG356433-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5104076.3						71340.37	1.40%
YRADIAL	321709.2						1801.74	0.56%
Ga 417.206	1183122.6						20302.77	1.72%
GaRADIAL	58896.0						1353.50	2.30%
Ag 328.068†	46366.5	0.231	mg/L	0.0064	0.231	mg/L	0.0064	2.78%
Al 396.153†	30606.7	6.12	mg/L	0.035	6.12	mg/L	0.035	0.56%
As 188.979†	254.5	0.231	mg/L	0.0045	0.231	mg/L	0.0045	1.93%
Ba 233.527†	29041.8	0.493	mg/L	0.0126	0.493	mg/L	0.0126	2.57%
Be 234.861†	17867.4	0.0299	mg/L	0.00082	0.0299	mg/L	0.00082	2.75%
B 249.677†	62388.2	1.20	mg/L	0.032	1.20	mg/L	0.032	2.65%
Ca 227.546†	965.6	9.21	mg/L	0.126	9.21	mg/L	0.126	1.37%
Cd 228.802†	505.0	0.0276	mg/L	0.00040	0.0276	mg/L	0.00040	1.46%
Co 228.616†	1807.8	0.0916	mg/L	0.00146	0.0916	mg/L	0.00146	1.60%
Cr 267.716†	26357.6	0.233	mg/L	0.0050	0.233	mg/L	0.0050	2.17%
Cu 327.393†	42113.4	0.293	mg/L	0.0082	0.293	mg/L	0.0082	2.79%
Fe 239.562†	2799.8	6.07	mg/L	0.074	6.07	mg/L	0.074	1.22%
Mg 279.077†	4693.4	5.71	mg/L	0.048	5.71	mg/L	0.048	0.84%
Mn 257.610†	121001.7	0.276	mg/L	0.0065	0.276	mg/L	0.0065	2.35%
Mo 202.031†	6256.9	0.468	mg/L	0.0081	0.468	mg/L	0.0081	1.74%
Ni 231.604†	8052.9	0.234	mg/L	0.0076	0.234	mg/L	0.0076	3.26%
Pb 220.353†	1375.4	0.235	mg/L	0.0040	0.235	mg/L	0.0040	1.72%
Sb 206.836†	1099.5	0.707	mg/L	0.0107	0.707	mg/L	0.0107	1.51%
Se 196.026†	304.0	0.219	mg/L	0.0045	0.219	mg/L	0.0045	2.04%
Si 251.611†	235206.6	6.87	mg/L	0.047	6.87	mg/L	0.047	0.68%

Sn 189.927†	2849.9	0.491	mg/L	0.0053	0.491	mg/L	0.0053 1.08%
Ti 334.940†	341998.5	0.470	mg/L	0.0019	0.470	mg/L	0.0019 0.40%
Tl 190.801†	402.3	0.243	mg/L	0.0006	0.243	mg/L	0.0006 0.25%
V 290.880†	68901.8	0.462	mg/L	0.0113	0.462	mg/L	0.0113 2.44%
Zn 206.200†	15421.6	0.468	mg/L	0.0117	0.468	mg/L	0.0117 2.49%
K 766.490†	74908.4	28.6	mg/L	0.24	28.6	mg/L	0.24 0.82%
Na 589.592†	500110.2	36.8	mg/L	0.56	36.8	mg/L	0.56 1.53%
Sr 407.771†	425885.9	0.416	mg/L	0.0354	0.416	mg/L	0.0354 8.50%
Li 670.784†	45080.9	0.562	mg/L	0.0012	0.562	mg/L	0.0012 0.21%

Sequence No.: 112 **Autosampler Location: 130**
Sample ID: L1102026613 **Date Collected: 2/19/2011 4:07:38 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026613

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102026613

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5021282.7						21791.39	0.43%
YRADIAL	313296.2						9830.30	3.14%
Ga 417.206	1205071.6						13836.65	1.15%
GaRADIAL	57512.9						902.58	1.57%
Ag 328.068†	342.0	0.00186	mg/L	0.000626	0.00186	mg/L	0.000626	33.64%
Al 396.153†	1519.1	0.298	mg/L	0.0106	0.298	mg/L	0.0106	3.57%
As 188.979†	13.0	0.0102	mg/L	0.00541	0.0102	mg/L	0.00541	52.96%
Ba 233.527†	1741.0	0.0293	mg/L	0.00010	0.0293	mg/L	0.00010	0.34%
Be 234.861†	303.8	-0.00014	mg/L	0.000059	-0.00014	mg/L	0.000059	42.06%
B 249.677†	2658.9	0.0670	mg/L	0.00046	0.0670	mg/L	0.00046	0.69%
Ca 227.546†	11310.2	106	mg/L	0.6	106	mg/L	0.6	0.60%
Cd 228.802†	6.1	0.00040	mg/L	0.000009	0.00040	mg/L	0.000009	2.35%
Co 228.616†	5.5	0.00032	mg/L	0.000124	0.00032	mg/L	0.000124	38.59%
Cr 267.716†	81.5	0.00019	mg/L	0.000040	0.00019	mg/L	0.000040	20.79%
Cu 327.393†	-579.7	-0.00394	mg/L	0.000226	-0.00394	mg/L	0.000226	5.74%
Fe 239.562†	1520.2	3.29	mg/L	0.058	3.29	mg/L	0.058	1.76%
Mg 279.077†	6590.5	8.02	mg/L	0.151	8.02	mg/L	0.151	1.88%
Mn 257.610†	46783.8	0.108	mg/L	0.0003	0.108	mg/L	0.0003	0.32%
Mo 202.031†	15.5	0.00140	mg/L	0.000087	0.00140	mg/L	0.000087	6.20%
Ni 231.604†	-5.6	-0.00015	mg/L	0.000119	-0.00015	mg/L	0.000119	80.19%
Pb 220.353†	-23.8	0.00097	mg/L	0.000160	0.00097	mg/L	0.000160	16.49%
Sb 206.836†	7.2	0.00577	mg/L	0.001050	0.00577	mg/L	0.001050	18.21%
Se 196.026†	-33.3	0.00139	mg/L	0.002351	0.00139	mg/L	0.002351	169.42%
Si 251.611†	430706.6	12.6	mg/L	0.11	12.6	mg/L	0.11	0.86%
Sn 189.927†	11.2	0.00109	mg/L	0.000901	0.00109	mg/L	0.000901	82.82%
Ti 334.940†	2226.3	0.00409	mg/L	0.000484	0.00409	mg/L	0.000484	11.85%
Tl 190.801†	115.5	0.0594	mg/L	0.00339	0.0594	mg/L	0.00339	5.70%
V 290.880†	-481.5	-0.00174	mg/L	0.000211	-0.00174	mg/L	0.000211	12.08%
Zn 206.200†	202.3	0.00570	mg/L	0.000101	0.00570	mg/L	0.000101	1.77%
K 766.490†	12922.7	4.90	mg/L	0.087	4.90	mg/L	0.087	1.77%
Na 589.592†	197744.4	14.4	mg/L	0.15	14.4	mg/L	0.15	1.06%
Sr 407.771†	433121.0	0.424	mg/L	0.0350	0.424	mg/L	0.0350	8.25%
Li 670.784†	415.8	0.00612	mg/L	0.000583	0.00612	mg/L	0.000583	9.52%

Sequence No.: 113 **Autosampler Location: 131**
Sample ID: L1102026614 **Date Collected: 2/19/2011 4:14:19 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026614

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102026614

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5216935.3						74826.52	1.43%
YRADIAL	316188.6						6311.19	2.00%
Ga 417.206	1222587.4						24212.64	1.98%
GaRADIAL	58396.1						545.57	0.93%
Ag 328.068†	-3.9	0.00019	mg/L	0.000645	0.00019	mg/L	0.000645	337.61%
Al 396.153†	965.0	0.187	mg/L	0.0021	0.187	mg/L	0.0021	1.15%
As 188.979†	3.9	0.00367	mg/L	0.002825	0.00367	mg/L	0.002825	76.89%
Ba 233.527†	2819.4	0.0475	mg/L	0.00058	0.0475	mg/L	0.00058	1.22%
Be 234.861†	584.0	0.00023	mg/L	0.000056	0.00023	mg/L	0.000056	24.30%
B 249.677†	680.4	0.0320	mg/L	0.00144	0.0320	mg/L	0.00144	4.52%
Ca 227.546†	2209.6	20.7	mg/L	0.33	20.7	mg/L	0.33	1.59%
Cd 228.802†	9.5	0.00064	mg/L	0.000122	0.00064	mg/L	0.000122	19.01%
Co 228.616†	0.2	0.00003	mg/L	0.000178	0.00003	mg/L	0.000178	644.03%
Cr 267.716†	248.5	0.00169	mg/L	0.000030	0.00169	mg/L	0.000030	1.76%
Cu 327.393†	-128.4	-0.00075	mg/L	0.001067	-0.00075	mg/L	0.001067	142.54%
Fe 239.562†	1747.6	3.79	mg/L	0.030	3.79	mg/L	0.030	0.79%
Mg 279.077†	1329.6	1.61	mg/L	0.021	1.61	mg/L	0.021	1.33%
Mn 257.610†	23512.2	0.0561	mg/L	0.00104	0.0561	mg/L	0.00104	1.86%
Mo 202.031†	4.1	0.00057	mg/L	0.000301	0.00057	mg/L	0.000301	52.97%
Ni 231.604†	18.2	0.00057	mg/L	0.000290	0.00057	mg/L	0.000290	50.86%
Pb 220.353†	-11.7	-0.00113	mg/L	0.000297	-0.00113	mg/L	0.000297	26.28%
Sb 206.836†	3.6	0.00342	mg/L	0.001739	0.00342	mg/L	0.001739	50.84%
Se 196.026†	-18.6	-0.00931	mg/L	0.004601	-0.00931	mg/L	0.004601	49.42%
Si 251.611†	522136.1	15.3	mg/L	0.11	15.3	mg/L	0.11	0.73%
Sn 189.927†	4.5	-0.00007	mg/L	0.000454	-0.00007	mg/L	0.000454	625.57%
Ti 334.940†	2529.1	0.00365	mg/L	0.000249	0.00365	mg/L	0.000249	6.82%
Tl 190.801†	40.6	0.0227	mg/L	0.00125	0.0227	mg/L	0.00125	5.51%
V 290.880†	39.0	0.00178	mg/L	0.000360	0.00178	mg/L	0.000360	20.21%
Zn 206.200†	199.7	0.00562	mg/L	0.000168	0.00562	mg/L	0.000168	2.99%
K 766.490†	31358.9	11.9	mg/L	0.11	11.9	mg/L	0.11	0.95%
Na 589.592†	167424.7	12.2	mg/L	0.07	12.2	mg/L	0.07	0.61%
Sr 407.771†	134773.9	0.131	mg/L	0.0123	0.131	mg/L	0.0123	9.37%
Li 670.784†	520.0	0.00742	mg/L	0.000896	0.00742	mg/L	0.000896	12.07%

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Sequence No.: 114 **Autosampler Location: 4**
Sample ID: CCV **Date Collected: 2/19/2011 4:21:00 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4984575.6						78298.33	1.57%
YRADIAL	309475.1						7600.95	2.46%
Ga 417.206	1141122.6						21431.53	1.88%
GaRADIAL	56147.9						654.46	1.17%
Ag 328.068†	95302.3	0.475	mg/L	0.0087	0.475	mg/L	0.0087	1.84%
Al 396.153†	60150.0	12.0	mg/L	0.04	12.0	mg/L	0.04	0.37%
As 188.979†	521.7	0.474	mg/L	0.0056	0.474	mg/L	0.0056	1.18%
Ba 233.527†	56800.0	0.964	mg/L	0.0121	0.964	mg/L	0.0121	1.26%
Be 234.861†	35935.3	0.0619	mg/L	0.00140	0.0619	mg/L	0.00140	2.27%
B 249.677†	31491.3	0.600	mg/L	0.0080	0.600	mg/L	0.0080	1.33%
Ca 227.546†	1217.9	11.7	mg/L	0.12	11.7	mg/L	0.12	1.06%
Cd 228.802†	1043.9	0.0569	mg/L	0.00097	0.0569	mg/L	0.00097	1.70%
Co 228.616†	3660.1	0.185	mg/L	0.0022	0.185	mg/L	0.0022	1.17%
Cr 267.716†	54002.9	0.477	mg/L	0.0077	0.477	mg/L	0.0077	1.61%
Cu 327.393†	86231.0	0.600	mg/L	0.0106	0.600	mg/L	0.0106	1.76%
Fe 239.562†	1691.5	3.66	mg/L	0.066	3.66	mg/L	0.066	1.80%
Mg 279.077†	7596.8	9.25	mg/L	0.199	9.25	mg/L	0.199	2.15%
Mn 257.610†	213659.1	0.487	mg/L	0.0073	0.487	mg/L	0.0073	1.51%
Mo 202.031†	12862.0	0.962	mg/L	0.0127	0.962	mg/L	0.0127	1.33%
Ni 231.604†	16428.5	0.478	mg/L	0.0058	0.478	mg/L	0.0058	1.22%

Pb 220.353†	2824.9	0.482 mg/L	0.0067	0.482 mg/L	0.0067	1.40%
Sb 206.836†	2278.8	1.46 mg/L	0.025	1.46 mg/L	0.025	1.71%
Se 196.026†	656.4	0.470 mg/L	0.0021	0.470 mg/L	0.0021	0.46%
Si 251.611†	205112.8	5.99 mg/L	0.098	5.99 mg/L	0.098	1.63%
Sn 189.927†	5502.0	0.949 mg/L	0.0118	0.949 mg/L	0.0118	1.24%
Ti 334.940†	700750.3	0.964 mg/L	0.0053	0.964 mg/L	0.0053	0.55%
Tl 190.801†	812.8	0.492 mg/L	0.0080	0.492 mg/L	0.0080	1.63%
V 290.880†	140867.1	0.943 mg/L	0.0123	0.943 mg/L	0.0123	1.31%
Zn 206.200†	31930.3	0.969 mg/L	0.0165	0.969 mg/L	0.0165	1.70%
K 766.490†	151393.3	58.3 mg/L	0.33	58.3 mg/L	0.33	0.56%
Na 589.592†	796339.3	59.2 mg/L	0.74	59.2 mg/L	0.74	1.25%
Sr 407.771†	838618.9	0.821 mg/L	0.0683	0.821 mg/L	0.0683	8.32%
Li 670.784†	93302.0	1.16 mg/L	0.015	1.16 mg/L	0.015	1.26%

Sequence No.: 115 **Autosampler Location: 5**
Sample ID: CCB **Date Collected: 2/19/2011 4:27:46 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	5225350.9						45028.59	0.86%
YRADIAL	319857.6						5435.87	1.70%
Ga 417.206	1180586.1						11119.50	0.94%
GaRADIAL	57330.3						713.63	1.24%
Ag 328.068†	97.6	0.00091	mg/L	0.000836	0.00091	mg/L	0.000836	91.67%
Al 396.153†	-69.4	-0.0209	mg/L	0.01204	-0.0209	mg/L	0.01204	57.64%
As 188.979†	-1.3	-0.00119	mg/L	0.002899	-0.00119	mg/L	0.002899	244.61%
Ba 233.527†	9.2	-0.00004	mg/L	0.000063	-0.00004	mg/L	0.000063	155.45%
Be 234.861†	-163.5	-0.00029	mg/L	0.000018	-0.00029	mg/L	0.000018	6.20%
B 249.677†	197.1	0.00541	mg/L	0.000253	0.00541	mg/L	0.000253	4.67%
Ca 227.546†	-7.1	-0.120	mg/L	0.0314	-0.120	mg/L	0.0314	26.23%
Cd 228.802†	5.2	0.00044	mg/L	0.000090	0.00044	mg/L	0.000090	20.17%
Co 228.616†	5.5	0.00042	mg/L	0.000170	0.00042	mg/L	0.000170	40.35%
Cr 267.716†	-4.5	-0.00052	mg/L	0.000069	-0.00052	mg/L	0.000069	13.31%
Cu 327.393†	27.2	-0.00011	mg/L	0.000316	-0.00011	mg/L	0.000316	285.78%
Fe 239.562†	1.3	-0.00116	mg/L	0.001337	-0.00116	mg/L	0.001337	115.55%
Mg 279.077†	-8.2	-0.0137	mg/L	0.00065	-0.0137	mg/L	0.00065	4.76%
Mn 257.610†	30.2	-0.00020	mg/L	0.000025	-0.00020	mg/L	0.000025	12.45%
Mo 202.031†	2.4	0.00025	mg/L	0.000209	0.00025	mg/L	0.000209	84.78%
Ni 231.604†	-11.9	-0.00029	mg/L	0.000113	-0.00029	mg/L	0.000113	38.71%
Pb 220.353†	-8.6	-0.00143	mg/L	0.001292	-0.00143	mg/L	0.001292	90.02%
Sb 206.836†	0.4	0.00144	mg/L	0.001411	0.00144	mg/L	0.001411	98.00%
Se 196.026†	0.4	-0.00231	mg/L	0.003690	-0.00231	mg/L	0.003690	159.83%
Si 251.611†	191.0	0.00509	mg/L	0.000385	0.00509	mg/L	0.000385	7.56%
Sn 189.927†	2.9	-0.00034	mg/L	0.000552	-0.00034	mg/L	0.000552	160.81%
Ti 334.940†	282.1	0.00035	mg/L	0.000117	0.00035	mg/L	0.000117	33.39%
Tl 190.801†	3.6	0.00260	mg/L	0.000829	0.00260	mg/L	0.000829	31.90%
V 290.880†	-435.6	-0.00168	mg/L	0.000722	-0.00168	mg/L	0.000722	42.85%
Zn 206.200†	22.1	0.00032	mg/L	0.000088	0.00032	mg/L	0.000088	27.73%
K 766.490†	205.2	0.0959	mg/L	0.04797	0.0959	mg/L	0.04797	50.02%
Na 589.592†	-291.1	-0.0179	mg/L	0.00513	-0.0179	mg/L	0.00513	28.67%
Sr 407.771†	233.6	-0.00005	mg/L	0.000152	-0.00005	mg/L	0.000152	321.73%
Li 670.784†	-106.6	-0.00038	mg/L	0.000413	-0.00038	mg/L	0.000413	107.98%

Sequence No.: 116 **Autosampler Location: 3**
Sample ID: LLCCV **Date Collected: 2/19/2011 4:34:26 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5201733.3						41068.33	0.79%
YRADIAL	319868.5						5637.57	1.76%
Ga 417.206	1160828.7						19861.43	1.71%
GaRADIAL	57364.1						493.14	0.86%
Ag 328.068†	2162.2	0.0112	mg/L	0.00055	0.0112	mg/L	0.00055	4.94%
Al 396.153†	1223.8	0.238	mg/L	0.0030	0.238	mg/L	0.0030	1.25%
As 188.979†	10.9	0.00993	mg/L	0.001941	0.00993	mg/L	0.001941	19.54%
Ba 233.527†	1167.3	0.0196	mg/L	0.00023	0.0196	mg/L	0.00023	1.19%
Be 234.861†	554.2	0.00095	mg/L	0.000030	0.00095	mg/L	0.000030	3.19%
B 249.677†	755.9	0.0160	mg/L	0.00075	0.0160	mg/L	0.00075	4.67%
Ca 227.546†	19.6	0.138	mg/L	0.0014	0.138	mg/L	0.0014	0.99%
Cd 228.802†	30.1	0.00179	mg/L	0.000080	0.00179	mg/L	0.000080	4.48%
Co 228.616†	84.5	0.00442	mg/L	0.000156	0.00442	mg/L	0.000156	3.52%
Cr 267.716†	1139.9	0.00960	mg/L	0.000115	0.00960	mg/L	0.000115	1.20%
Cu 327.393†	1622.3	0.0110	mg/L	0.00115	0.0110	mg/L	0.00115	10.46%
Fe 239.562†	32.2	0.0660	mg/L	0.00329	0.0660	mg/L	0.00329	4.99%
Mg 279.077†	145.9	0.174	mg/L	0.0042	0.174	mg/L	0.0042	2.40%
Mn 257.610†	4417.8	0.00980	mg/L	0.000180	0.00980	mg/L	0.000180	1.84%
Mo 202.031†	266.9	0.0200	mg/L	0.00037	0.0200	mg/L	0.00037	1.82%
Ni 231.604†	335.7	0.00982	mg/L	0.000330	0.00982	mg/L	0.000330	3.36%
Pb 220.353†	57.6	0.00985	mg/L	0.000933	0.00985	mg/L	0.000933	9.47%
Sb 206.836†	45.8	0.0306	mg/L	0.00279	0.0306	mg/L	0.00279	9.13%
Se 196.026†	14.2	0.00764	mg/L	0.004073	0.00764	mg/L	0.004073	53.34%
Si 251.611†	4364.2	0.127	mg/L	0.0009	0.127	mg/L	0.0009	0.73%
Sn 189.927†	121.6	0.0201	mg/L	0.00075	0.0201	mg/L	0.00075	3.73%
Ti 334.940†	14376.9	0.0197	mg/L	0.00030	0.0197	mg/L	0.00030	1.51%
Tl 190.801†	18.2	0.0114	mg/L	0.00268	0.0114	mg/L	0.00268	23.38%
V 290.880†	2447.1	0.0176	mg/L	0.00085	0.0176	mg/L	0.00085	4.81%
Zn 206.200†	704.1	0.0210	mg/L	0.00022	0.0210	mg/L	0.00022	1.03%
K 766.490†	3343.9	1.28	mg/L	0.036	1.28	mg/L	0.036	2.83%
Na 589.592†	16429.5	1.19	mg/L	0.013	1.19	mg/L	0.013	1.11%
Sr 407.771†	17110.8	0.0165	mg/L	0.00129	0.0165	mg/L	0.00129	7.80%
Li 670.784†	1914.1	0.0248	mg/L	0.00241	0.0248	mg/L	0.00241	9.73%

Sequence No.: 117 **Autosampler Location: 132**
Sample ID: L1102026615 **Date Collected: 2/19/2011 4:41:04 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026615

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026615

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5025480.7						50364.26	1.00%
YRADIAL	310323.7						7027.42	2.26%
Ga 417.206	1179151.0						13070.37	1.11%
GaRADIAL	57010.8						1436.41	2.52%
Ag 328.068†	655.2	0.00341	mg/L	0.000777	0.00341	mg/L	0.000777	22.82%
Al 396.153†	2358.6	0.466	mg/L	0.0076	0.466	mg/L	0.0076	1.62%
As 188.979†	21.5	0.0174	mg/L	0.00414	0.0174	mg/L	0.00414	23.85%
Ba 233.527†	3040.9	0.0513	mg/L	0.00063	0.0513	mg/L	0.00063	1.22%
Be 234.861†	371.7	-0.00005	mg/L	0.000099	-0.00005	mg/L	0.000099	180.82%
B 249.677†	2650.4	0.0673	mg/L	0.00108	0.0673	mg/L	0.00108	1.61%
Ca 227.546†	14566.9	137	mg/L	1.6	137	mg/L	1.6	1.20%
Cd 228.802†	4.7	0.00027	mg/L	0.000092	0.00027	mg/L	0.000092	33.54%
Co 228.616†	7.4	0.00039	mg/L	0.000198	0.00039	mg/L	0.000198	51.30%
Cr 267.716†	132.4	0.00065	mg/L	0.000075	0.00065	mg/L	0.000075	11.62%
Cu 327.393†	-398.7	-0.00265	mg/L	0.000963	-0.00265	mg/L	0.000963	36.30%
Fe 239.562†	1587.1	3.44	mg/L	0.071	3.44	mg/L	0.071	2.05%

Mg 279.077†	5543.2	6.74 mg/L	0.136	6.74 mg/L	0.136	2.01%
Mn 257.610†	36400.1	0.0852 mg/L	0.00142	0.0852 mg/L	0.00142	1.66%
Mo 202.031†	35.5	0.00290 mg/L	0.000633	0.00290 mg/L	0.000633	21.79%
Ni 231.604†	137.0	0.00400 mg/L	0.000239	0.00400 mg/L	0.000239	5.98%
Pb 220.353†	-23.8	0.00246 mg/L	0.000446	0.00246 mg/L	0.000446	18.13%
Sb 206.836†	15.9	0.0113 mg/L	0.00243	0.0113 mg/L	0.00243	21.43%
Se 196.026†	-39.6	0.00459 mg/L	0.007951	0.00459 mg/L	0.007951	173.06%
Si 251.611†	514511.7	15.1 mg/L	0.01	15.1 mg/L	0.01	0.07%
Sn 189.927†	6.1	0.00020 mg/L	0.000521	0.00020 mg/L	0.000521	256.38%
Ti 334.940†	7376.9	0.0115 mg/L	0.00209	0.0115 mg/L	0.00209	18.17%
Tl 190.801†	129.4	0.0649 mg/L	0.00016	0.0649 mg/L	0.00016	0.24%
V 290.880†	-150.1	0.00048 mg/L	0.001065	0.00048 mg/L	0.001065	220.89%
Zn 206.200†	1568.5	0.0471 mg/L	0.00045	0.0471 mg/L	0.00045	0.96%
K 766.490†	16294.4	6.18 mg/L	0.078	6.18 mg/L	0.078	1.26%
Na 589.592†	185261.3	13.5 mg/L	0.23	13.5 mg/L	0.23	1.71%
Sr 407.771†	489569.3	0.479 mg/L	0.0398	0.479 mg/L	0.0398	8.31%
Li 670.784†	959.5	0.0129 mg/L	0.00027	0.0129 mg/L	0.00027	2.13%

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Sequence No.: 118 **Autosampler Location: 133**
Sample ID: L1102026616 **Date Collected: 2/19/2011 4:47:50 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026616

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102026616

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4726415.0						53707.02	1.14%
YRADIAL	315529.7						3840.92	1.22%
Ga 417.206	1069211.2						19531.32	1.83%
GaRADIAL	55297.0						1141.49	2.06%
Ag 328.068†	734.5	0.00269	mg/L	0.002755	0.00269	mg/L	0.002755	102.41%
Al 396.153†	11052.8	2.21	mg/L	0.036	2.21	mg/L	0.036	1.63%
As 188.979†	26.4	0.0252	mg/L	0.00655	0.0252	mg/L	0.00655	26.00%
Ba 233.527†	6350.0	0.107	mg/L	0.0011	0.107	mg/L	0.0011	1.03%
Be 234.861†	3902.6	0.00134	mg/L	0.000350	0.00134	mg/L	0.000350	26.12%
B 249.677†	-404.5	0.115	mg/L	0.0061	0.115	mg/L	0.0061	5.31%
Ca 227.546†	14050.8	132	mg/L	1.2	132	mg/L	1.2	0.89%
Cd 228.802†	19.0	0.00111	mg/L	0.000159	0.00111	mg/L	0.000159	14.39%
Co 228.616†	159.4	0.00747	mg/L	0.000161	0.00747	mg/L	0.000161	2.16%
Cr 267.716†	2775.7	0.0239	mg/L	0.00034	0.0239	mg/L	0.00034	1.44%
Cu 327.393†	13611.1	0.0972	mg/L	0.00439	0.0972	mg/L	0.00439	4.51%
Fe 239.562†	12208.1	26.5	mg/L	0.64	26.5	mg/L	0.64	2.43%
Mg 279.077†	9369.2	11.4	mg/L	0.28	11.4	mg/L	0.28	2.48%
Mn 257.610†	161656.1	0.374	mg/L	0.0086	0.374	mg/L	0.0086	2.30%
Mo 202.031†	35.4	0.00409	mg/L	0.000504	0.00409	mg/L	0.000504	12.33%
Ni 231.604†	1790.5	0.0521	mg/L	0.00022	0.0521	mg/L	0.00022	0.43%
Pb 220.353†	80.7	0.0188	mg/L	0.00126	0.0188	mg/L	0.00126	6.72%
Sb 206.836†	17.7	0.0124	mg/L	0.00365	0.0124	mg/L	0.00365	29.55%
Se 196.026†	-67.4	-0.00838	mg/L	0.004111	-0.00838	mg/L	0.004111	49.03%
Si 251.611†	1068358.8	31.3	mg/L	0.27	31.3	mg/L	0.27	0.85%
Sn 189.927†	4.8	-0.00002	mg/L	0.001663	-0.00002	mg/L	0.001663	>999.9%
Ti 334.940†	38035.4	0.0536	mg/L	0.00173	0.0536	mg/L	0.00173	3.24%
Tl 190.801†	130.1	0.0667	mg/L	0.00500	0.0667	mg/L	0.00500	7.50%
V 290.880†	2820.2	0.0221	mg/L	0.00061	0.0221	mg/L	0.00061	2.74%
Zn 206.200†	4383.8	0.132	mg/L	0.0015	0.132	mg/L	0.0015	1.10%
K 766.490†	210145.4	81.5	mg/L	0.56	81.5	mg/L	0.56	0.69%
Na 589.592†	1606042.0	124	mg/L	1.8	124	mg/L	1.8	1.43%
Sr 407.771†	241527.6	0.233	mg/L	0.0082	0.233	mg/L	0.0082	3.50%
Li 670.784†	1069.6	0.0143	mg/L	0.00141	0.0143	mg/L	0.00141	9.87%

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Sequence No.: 119 **Autosampler Location: 134**
Sample ID: FBLK **Date Collected: 2/19/2011 4:53:34 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: FBLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5265313.0						75648.42	1.44%
YRADIAL	328758.2						2603.67	0.79%
Ga 417.206	1246684.6						19107.10	1.53%
GaRADIAL	59953.4						431.87	0.72%
Ag 328.068†	-55.8	0.00015	mg/L	0.000529	0.00015	mg/L	0.000529	348.49%
Al 396.153†	39.7	0.00098	mg/L	0.022214	0.00098	mg/L	0.022214	>999.9%
As 188.979†	0.7	0.00068	mg/L	0.003270	0.00068	mg/L	0.003270	480.86%
Ba 233.527†	8.9	-0.00004	mg/L	0.000073	-0.00004	mg/L	0.000073	165.32%
Be 234.861†	-107.8	-0.00019	mg/L	0.000021	-0.00019	mg/L	0.000021	11.01%
B 249.677†	92.0	0.00339	mg/L	0.000107	0.00339	mg/L	0.000107	3.15%
Ca 227.546†	-2.1	-0.0740	mg/L	0.02964	-0.0740	mg/L	0.02964	40.06%
Cd 228.802†	4.3	0.00038	mg/L	0.000149	0.00038	mg/L	0.000149	39.06%
Co 228.616†	4.3	0.00036	mg/L	0.000140	0.00036	mg/L	0.000140	39.22%
Cr 267.716†	-17.6	-0.00063	mg/L	0.000057	-0.00063	mg/L	0.000057	8.92%
Cu 327.393†	-20.1	-0.00044	mg/L	0.000573	-0.00044	mg/L	0.000573	130.61%
Fe 239.562†	-0.1	-0.00406	mg/L	0.004544	-0.00406	mg/L	0.004544	111.95%
Mg 279.077†	-10.5	-0.0165	mg/L	0.00395	-0.0165	mg/L	0.00395	23.96%
Mn 257.610†	8.2	-0.00015	mg/L	0.000024	-0.00015	mg/L	0.000024	15.68%
Mo 202.031†	2.1	0.00022	mg/L	0.000338	0.00022	mg/L	0.000338	153.39%
Ni 231.604†	-9.9	-0.00023	mg/L	0.000069	-0.00023	mg/L	0.000069	29.73%
Pb 220.353†	-10.5	-0.00175	mg/L	0.000368	-0.00175	mg/L	0.000368	21.00%
Sb 206.836†	-0.4	0.00088	mg/L	0.002336	0.00088	mg/L	0.002336	264.49%
Se 196.026†	0.6	-0.00218	mg/L	0.002061	-0.00218	mg/L	0.002061	94.68%
Si 251.611†	18512.6	0.541	mg/L	0.0130	0.541	mg/L	0.0130	2.40%
Sn 189.927†	-0.5	-0.00093	mg/L	0.000598	-0.00093	mg/L	0.000598	64.18%
Ti 334.940†	196.2	0.00023	mg/L	0.000044	0.00023	mg/L	0.000044	18.77%
Tl 190.801†	1.7	0.00147	mg/L	0.002449	0.00147	mg/L	0.002449	166.79%
V 290.880†	-305.2	-0.00081	mg/L	0.000321	-0.00081	mg/L	0.000321	39.56%
Zn 206.200†	33.6	0.00066	mg/L	0.000142	0.00066	mg/L	0.000142	21.36%
K 766.490†	197.4	0.0929	mg/L	0.03697	0.0929	mg/L	0.03697	39.78%
Na 589.592†	-177.1	-0.00967	mg/L	0.013703	-0.00967	mg/L	0.013703	141.68%
Sr 407.771†	39.0	-0.00024	mg/L	0.000070	-0.00024	mg/L	0.000070	29.47%
Li 670.784†	-95.5	-0.00024	mg/L	0.000542	-0.00024	mg/L	0.000542	222.84%

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Sequence No.: 120 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/19/2011 5:00:22 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4920071.4						88678.23	1.80%
YRADIAL	304495.5						7592.36	2.49%
Ga 417.206	1106774.6						31863.06	2.88%
GaRADIAL	55158.8						262.66	0.48%
Ag 328.068†	98389.7	0.490	mg/L	0.0154	0.490	mg/L	0.0154	3.14%
QC value greater than the upper limit for Ag 328.068 Recovery = 122.50%								
Al 396.153†	61217.7	12.3	mg/L	0.02	12.3	mg/L	0.02	0.14%
QC value greater than the upper limit for Al 396.153 Recovery = 122.51%								
As 188.979†	546.9	0.496	mg/L	0.0124	0.496	mg/L	0.0124	2.51%
QC value greater than the upper limit for As 188.979 Recovery = 124.12%								
Ba 233.527†	57545.5	0.976	mg/L	0.0154	0.976	mg/L	0.0154	1.58%
QC value within limits for Ba 233.527 Recovery = 97.65%								

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Be 234.861†          37069.1      0.0638 mg/L       0.00199      0.0638 mg/L       0.00199   3.12%
   QC value greater than the upper limit for Be 234.861  Recovery = 127.61%
B 249.677†           32183.2       0.613 mg/L        0.0194       0.613 mg/L        0.0194   3.17%
   QC value greater than the upper limit for B 249.677  Recovery = 122.56%
Ca 227.546†           1264.5        12.2 mg/L          0.33        12.2 mg/L          0.33   2.69%
   QC value greater than the upper limit for Ca 227.546  Recovery = 121.74%
Cd 228.802†           1083.1      0.0590 mg/L       0.00168      0.0590 mg/L       0.00168   2.85%
   QC value greater than the upper limit for Cd 228.802  Recovery = 118.01%
Co 228.616†           3741.9       0.190 mg/L        0.0028       0.190 mg/L        0.0028   1.48%
   QC value within limits for Co 228.616  Recovery = 94.80%
Cr 267.716†          54821.0       0.484 mg/L        0.0082       0.484 mg/L        0.0082   1.70%
   QC value within limits for Cr 267.716  Recovery = 96.84%
Cu 327.393†          88642.2       0.616 mg/L        0.0199       0.616 mg/L        0.0199   3.23%
   QC value greater than the upper limit for Cu 327.393  Recovery = 123.26%
Fe 239.562†           1716.2        3.72 mg/L         0.036        3.72 mg/L         0.036   0.98%
   QC value within limits for Fe 239.562  Recovery = 92.90%
Mg 279.077†           7713.4        9.39 mg/L         0.132        9.39 mg/L         0.132   1.40%
   QC value within limits for Mg 279.077  Recovery = 93.90%
Mn 257.610†         216341.8       0.493 mg/L        0.0087       0.493 mg/L        0.0087   1.77%
   QC value within limits for Mn 257.610  Recovery = 98.57%
Mo 202.031†          13084.6       0.979 mg/L        0.0194       0.979 mg/L        0.0194   1.98%
   QC value within limits for Mo 202.031  Recovery = 97.86%
Ni 231.604†          16639.0       0.484 mg/L        0.0061       0.484 mg/L        0.0061   1.26%
   QC value within limits for Ni 231.604  Recovery = 96.85%
Pb 220.353†           2902.8       0.495 mg/L        0.0069       0.495 mg/L        0.0069   1.39%
   QC value within limits for Pb 220.353  Recovery = 99.03%
Sb 206.836†           2369.1        1.52 mg/L         0.038        1.52 mg/L         0.038   2.50%
   QC value greater than the upper limit for Sb 206.836  Recovery = 126.83%
Se 196.026†            678.6       0.486 mg/L        0.0154       0.486 mg/L        0.0154   3.17%
   QC value greater than the upper limit for Se 196.026  Recovery = 121.56%
Si 251.611†         211617.2        6.18 mg/L         0.203        6.18 mg/L         0.203   3.29%
   QC value greater than the upper limit for Si 251.611  Recovery = 123.50%
Sn 189.927†           5639.5       0.972 mg/L        0.0153       0.972 mg/L        0.0153   1.58%
   QC value within limits for Sn 189.927  Recovery = 97.25%
Ti 334.940†          704453.3       0.969 mg/L        0.0064       0.969 mg/L        0.0064   0.66%
   QC value within limits for Ti 334.940  Recovery = 96.86%
Tl 190.801†            824.4       0.499 mg/L        0.0082       0.499 mg/L        0.0082   1.65%
   QC value within limits for Tl 190.801  Recovery = 99.78%
V 290.880†           142698.2       0.956 mg/L        0.0182       0.956 mg/L        0.0182   1.90%
   QC value within limits for V 290.880  Recovery = 95.57%
Zn 206.200†           32607.5       0.989 mg/L        0.0110       0.989 mg/L        0.0110   1.11%
   QC value within limits for Zn 206.200  Recovery = 98.93%
K 766.490†           154159.8        59.4 mg/L          0.31        59.4 mg/L          0.31   0.52%
   QC value greater than the upper limit for K 766.490  Recovery = 118.78%
Na 589.592†          815910.0        60.7 mg/L          0.90        60.7 mg/L          0.90   1.49%
   QC value greater than the upper limit for Na 589.592  Recovery = 121.46%
Sr 407.771†          846675.1       0.829 mg/L        0.0787       0.829 mg/L        0.0787   9.49%
   QC value less than the lower limit for Sr 407.771  Recovery = 82.89%
Li 670.784†           94653.4        1.18 mg/L         0.007        1.18 mg/L         0.007   0.57%
   QC value greater than the upper limit for Li 670.784  Recovery = 117.98%
QC Failed.  Continue with analysis.
```

Sequence No.: 121 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/19/2011 5:07:01 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5271588.1						77378.99	1.47%
YRADIAL	328039.0						4939.71	1.51%
Ga 417.206	1179189.6						13917.45	1.18%
GaRADIAL	58692.6						609.09	1.04%
Ag 328.068†	-14.1	0.00036	mg/L	0.000978	0.00036	mg/L	0.000978	273.30%

```
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†              -28.2     -0.0126 mg/L       0.00321     -0.0126 mg/L       0.00321  25.40%
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†               0.7     0.00069 mg/L      0.001413     0.00069 mg/L      0.001413 204.51%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†              10.7    -0.00001 mg/L      0.000049    -0.00001 mg/L      0.000049 338.90%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†            -179.7    -0.00031 mg/L      0.000008    -0.00031 mg/L      0.000008   2.42%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†              152.1     0.00456 mg/L      0.000189     0.00456 mg/L      0.000189   4.15%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†              -5.6      -0.106 mg/L        0.0849      -0.106 mg/L        0.0849  80.37%
   QC value less than the lower limit for Ca 227.546  Recovery = Not calculated
Cd 228.802†               4.3     0.00038 mg/L      0.000023     0.00038 mg/L      0.000023   6.01%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†               2.8     0.00028 mg/L      0.000197     0.00028 mg/L      0.000197  69.97%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -2.7    -0.00050 mg/L      0.000122    -0.00050 mg/L      0.000122  24.19%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†            -129.0    -0.00119 mg/L      0.000244    -0.00119 mg/L      0.000244  20.43%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†               1.3    -0.00113 mg/L      0.001499    -0.00113 mg/L      0.001499 132.66%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†              -6.3     -0.0114 mg/L       0.00500     -0.0114 mg/L       0.00500  43.95%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              15.6    -0.00023 mg/L      0.000026    -0.00023 mg/L      0.000026  11.29%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               4.6     0.00041 mg/L      0.000291     0.00041 mg/L      0.000291  71.05%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†             -11.0    -0.00026 mg/L      0.000134    -0.00026 mg/L      0.000134  50.78%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -8.8    -0.00148 mg/L      0.001393    -0.00148 mg/L      0.001393  94.44%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               0.4     0.00139 mg/L      0.001378     0.00139 mg/L      0.001378  99.28%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -1.8    -0.00390 mg/L      0.005921    -0.00390 mg/L      0.005921 151.89%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             363.7      0.0101 mg/L       0.00039      0.0101 mg/L       0.00039   3.85%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               1.4    -0.00060 mg/L      0.000586    -0.00060 mg/L      0.000586  97.98%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†              237.4     0.00029 mg/L      0.000037     0.00029 mg/L      0.000037  13.01%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               1.5     0.00137 mg/L      0.001385     0.00137 mg/L      0.001385 100.96%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              -350.4    -0.00112 mg/L      0.000885    -0.00112 mg/L      0.000885  79.35%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†              16.4     0.00015 mg/L      0.000126     0.00015 mg/L      0.000126  86.62%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               247.9       0.112 mg/L        0.0236       0.112 mg/L        0.0236  21.05%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             -284.0     -0.0174 mg/L       0.01568     -0.0174 mg/L       0.01568  90.18%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              153.8    -0.00013 mg/L      0.000121    -0.00013 mg/L      0.000121  96.59%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†               6.4     0.00103 mg/L      0.001722     0.00103 mg/L      0.001722 167.89%
   QC value within limits for Li 670.784  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Sequence No.: 122 **Autosampler Location: 3**
Sample ID: LLCCV **Date Collected: 2/19/2011 5:13:37 AM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5173904.9						47943.23	0.93%
YRADIAL	318445.6						5670.93	1.78%
Ga 417.206	1161606.7						13702.39	1.18%
GaRADIAL	57182.7						1749.58	3.06%
Ag 328.068†	2137.8	0.0111	mg/L	0.00088	0.0111	mg/L	0.00088	7.94%
Al 396.153†	1256.4	0.245	mg/L	0.0075	0.245	mg/L	0.0075	3.07%
As 188.979†	8.1	0.00732	mg/L	0.003587	0.00732	mg/L	0.003587	49.01%
Ba 233.527†	1176.8	0.0198	mg/L	0.00023	0.0198	mg/L	0.00023	1.18%
Be 234.861†	551.7	0.00095	mg/L	0.000043	0.00095	mg/L	0.000043	4.51%
B 249.677†	738.2	0.0157	mg/L	0.00109	0.0157	mg/L	0.00109	6.94%
Ca 227.546†	18.8	0.131	mg/L	0.0792	0.131	mg/L	0.0792	60.46%
Cd 228.802†	27.8	0.00168	mg/L	0.000114	0.00168	mg/L	0.000114	6.79%
Co 228.616†	78.4	0.00411	mg/L	0.000101	0.00411	mg/L	0.000101	2.47%
Cr 267.716†	1150.8	0.00969	mg/L	0.000156	0.00969	mg/L	0.000156	1.61%
Cu 327.393†	1731.9	0.0117	mg/L	0.00008	0.0117	mg/L	0.00008	0.65%
Fe 239.562†	35.1	0.0723	mg/L	0.00695	0.0723	mg/L	0.00695	9.61%
Mg 279.077†	151.0	0.180	mg/L	0.0054	0.180	mg/L	0.0054	3.01%
Mn 257.610†	4458.1	0.00989	mg/L	0.000059	0.00989	mg/L	0.000059	0.59%
Mo 202.031†	265.6	0.0199	mg/L	0.00025	0.0199	mg/L	0.00025	1.25%
Ni 231.604†	330.0	0.00966	mg/L	0.000070	0.00966	mg/L	0.000070	0.72%
Pb 220.353†	57.9	0.00989	mg/L	0.000518	0.00989	mg/L	0.000518	5.24%
Sb 206.836†	46.7	0.0312	mg/L	0.00125	0.0312	mg/L	0.00125	4.00%
Se 196.026†	11.1	0.00545	mg/L	0.000766	0.00545	mg/L	0.000766	14.06%
Si 251.611†	4459.3	0.130	mg/L	0.0017	0.130	mg/L	0.0017	1.33%
Sn 189.927†	119.5	0.0198	mg/L	0.00065	0.0198	mg/L	0.00065	3.27%
Ti 334.940†	14609.4	0.0201	mg/L	0.00017	0.0201	mg/L	0.00017	0.86%
Tl 190.801†	21.6	0.0134	mg/L	0.00417	0.0134	mg/L	0.00417	31.00%
V 290.880†	2542.3	0.0182	mg/L	0.00070	0.0182	mg/L	0.00070	3.83%
Zn 206.200†	703.3	0.0210	mg/L	0.00016	0.0210	mg/L	0.00016	0.75%
K 766.490†	3244.5	1.25	mg/L	0.063	1.25	mg/L	0.063	5.04%
Na 589.592†	16580.1	1.20	mg/L	0.011	1.20	mg/L	0.011	0.88%
Sr 407.771†	17152.3	0.0165	mg/L	0.00157	0.0165	mg/L	0.00157	9.53%
Li 670.784†	1886.3	0.0244	mg/L	0.00073	0.0244	mg/L	0.00073	3.00%

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Analysis Begun

Start Time: 2/21/2011 11:56:00 AM **Plasma On Time: 2/21/2011 7:55:44 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\peicp2\Sample Information\MONDAY1.sif
Batch ID:
Results Data Set: 022111H2
Results Library: C:\pe\peicp2\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 2/21/2011 11:56:01 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S0

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	5202126.2	93122.23	1.79%		
YRADIAL	327137.1	14156.02	4.33%		
Ga 417.206	1246360.6	18424.88	1.48%		
GaRADIAL	62368.8	3043.03	4.88%		
Ag 328.068†	-1451.4	26.34	1.82%	[0.00]	mg/L
Al 396.153†	-139.8	114.42	81.85%	[0.00]	mg/L
As 188.979†	1.9	3.55	182.76%	[0.00]	mg/L
Ba 233.527†	-52.6	6.31	11.99%	[0.00]	mg/L
Be 234.861†	-575.3	7.44	1.29%	[0.00]	mg/L
B 249.677†	446.8	15.55	3.48%	[0.00]	mg/L
Ca 227.546†	-38.4	2.14	5.57%	[0.00]	mg/L
Cd 228.802†	20.4	2.64	12.91%	[0.00]	mg/L
Co 228.616†	-24.7	4.43	17.92%	[0.00]	mg/L
Cr 267.716†	-44.6	4.17	9.34%	[0.00]	mg/L
Cu 327.393†	-1305.6	22.24	1.70%	[0.00]	mg/L
Fe 239.562†	4.3	1.60	36.91%	[0.00]	mg/L
Mg 279.077†	16.1	2.49	15.42%	[0.00]	mg/L
Mn 257.610†	188.0	8.04	4.28%	[0.00]	mg/L
Mo 202.031†	-30.2	2.03	6.72%	[0.00]	mg/L
Ni 231.604†	0.9	7.57	886.30%	[0.00]	mg/L
Pb 220.353†	32.4	8.19	25.27%	[0.00]	mg/L
Sb 206.836†	17.0	0.53	3.10%	[0.00]	mg/L
Se 196.026†	6.0	3.34	55.19%	[0.00]	mg/L
Si 251.611†	297.7	12.26	4.12%	[0.00]	mg/L
Sn 189.927†	19.5	4.58	23.52%	[0.00]	mg/L
Ti 334.940†	-569.5	47.49	8.34%	[0.00]	mg/L
Tl 190.801†	-30.1	5.69	18.90%	[0.00]	mg/L
V 290.880†	4509.1	130.00	2.88%	[0.00]	mg/L
Zn 206.200†	17.7	8.42	47.43%	[0.00]	mg/L
K 766.490†	91.5	119.89	131.09%	[0.00]	mg/L
Na 589.592†	-15.5	103.35	668.39%	[0.00]	mg/L
Sr 407.771†	-779.0	64.39	8.27%	[0.00]	mg/L
Li 670.784†	251.2	75.71	30.14%	[0.00]	mg/L

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S1 **Date Collected: 2/21/2011 12:02:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S1

Analyte	Back Pressure	Flow

Approved: February 22, 2011

Pierce Morris

All	169.0 kPa	0.50 L/min

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	5162020.5	28440.55	0.55%		
YRADIAL	318113.7	7734.36	2.43%		
Ga 417.206	1229257.6	14219.31	1.16%		
GaRADIAL	60663.7	1210.17	1.99%		
Ag 328.068†	922.0	78.73	8.54%	[0.0040]	mg/L
Al 396.153†	493.2	94.50	19.16%	[0.10]	mg/L
Ba 233.527†	587.5	7.80	1.33%	[0.010]	mg/L
Be 234.861†	284.4	8.47	2.98%	[0.0005]	mg/L
Cd 228.802†	10.9	1.78	16.31%	[0.00050]	mg/L
Co 228.616†	38.5	0.49	1.28%	[0.0020]	mg/L
Cr 267.716†	570.8	22.35	3.92%	[0.0050]	mg/L
Cu 327.393†	694.5	115.02	16.56%	[0.0050]	mg/L
Fe 239.562†	17.2	2.73	15.84%	[0.040]	mg/L
Mg 279.077†	69.0	0.26	0.38%	[0.10]	mg/L
Mn 257.610†	2257.0	6.60	0.29%	[0.0050]	mg/L
Mo 202.031†	131.0	4.69	3.58%	[0.010]	mg/L
Ni 231.604†	160.8	8.19	5.09%	[0.0050]	mg/L
Pb 220.353†	40.5	1.02	2.52%	[0.0050]	mg/L
Sb 206.836†	16.6	2.38	14.32%	[0.012]	mg/L
Si 251.611†	1795.3	62.73	3.49%	[0.050]	mg/L
Sn 189.927†	63.6	6.31	9.92%	[0.010]	mg/L
Ti 334.940†	7163.9	97.97	1.37%	[0.010]	mg/L
V 290.880†	1413.5	96.37	6.82%	[0.010]	mg/L
Zn 206.200†	316.5	5.84	1.84%	[0.010]	mg/L
K 766.490†	1421.2	48.43	3.41%	[0.50]	mg/L
Na 589.592†	7060.3	92.00	1.30%	[0.50]	mg/L
Sr 407.771†	10555.4	887.43	8.41%	[0.010]	mg/L
Li 670.784†	779.1	48.32	6.20%	[0.010]	mg/L

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S2 **Date Collected: 2/21/2011 12:09:13 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S2

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	5172357.1	52969.98	1.02%		
YRADIAL	312631.8	9030.29	2.89%		
Ga 417.206	1237754.8	20116.24	1.63%		
GaRADIAL	60184.1	1681.31	2.79%		
Ag 328.068†	1765.8	90.42	5.12%	[0.0080]	mg/L
Al 396.153†	1001.8	61.00	6.09%	[0.20]	mg/L
As 188.979†	8.9	1.94	21.80%	[0.0080]	mg/L
Ba 233.527†	1170.6	18.95	1.62%	[0.020]	mg/L
Be 234.861†	562.1	11.88	2.11%	[0.0010]	mg/L
B 249.677†	459.5	24.70	5.38%	[0.010]	mg/L
Ca 227.546†	16.7	8.79	52.72%	[0.20]	mg/L
Cd 228.802†	18.5	4.38	23.73%	[0.0010]	mg/L
Co 228.616†	73.8	5.39	7.30%	[0.0040]	mg/L
Cr 267.716†	1167.3	5.03	0.43%	[0.010]	mg/L
Cu 327.393†	1383.3	146.75	10.61%	[0.010]	mg/L
Fe 239.562†	34.1	1.44	4.22%	[0.080]	mg/L
Mg 279.077†	152.6	9.13	5.98%	[0.20]	mg/L
Mn 257.610†	4478.4	69.13	1.54%	[0.010]	mg/L
Mo 202.031†	266.6	3.44	1.29%	[0.020]	mg/L
Ni 231.604†	334.1	12.76	3.82%	[0.010]	mg/L
Pb 220.353†	59.6	8.92	14.96%	[0.010]	mg/L
Sb 206.836†	36.6	1.17	3.19%	[0.024]	mg/L

Approved: February 22, 2011

Pierre Morris

Se 196.026†	9.7	1.47	15.20%	[0.0080]	mg/L
Si 251.611†	3465.9	79.44	2.29%	[0.10]	mg/L
Sn 189.927†	111.7	3.82	3.42%	[0.020]	mg/L
Ti 334.940†	14448.8	140.36	0.97%	[0.020]	mg/L
Tl 190.801†	13.4	4.35	32.56%	[0.010]	mg/L
V 290.880†	2873.8	107.85	3.75%	[0.020]	mg/L
Zn 206.200†	639.3	9.61	1.50%	[0.020]	mg/L
K 766.490†	2746.0	80.90	2.95%	[1.00]	mg/L
Na 589.592†	14265.6	214.67	1.50%	[1.00]	mg/L
Sr 407.771†	21317.0	1840.32	8.63%	[0.020]	mg/L
Li 670.784†	1638.3	31.95	1.95%	[0.020]	mg/L

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S3 **Date Collected: 2/21/2011 12:15:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S3

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	5014228.3	70974.92	1.42%		
YRADIAL	308328.9	4672.08	1.52%		
Ga 417.206	1204601.1	21371.29	1.77%		
GaRADIAL	59584.0	2052.71	3.45%		
Ag 328.068†	79927.0	818.14	1.02%	[0.40]	mg/L
Al 396.153†	51940.5	470.04	0.90%	[10.00]	mg/L
As 188.979†	421.9	8.48	2.01%	[0.40]	mg/L
Ba 233.527†	57222.0	381.33	0.67%	[1.00]	mg/L
Be 234.861†	28502.1	403.31	1.42%	[0.05]	mg/L
B 249.677†	26246.2	353.73	1.35%	[0.50]	mg/L
Ca 227.546†	1031.3	22.15	2.15%	[10.00]	mg/L
Cd 228.802†	866.6	23.24	2.68%	[0.05]	mg/L
Co 228.616†	3755.6	54.96	1.46%	[0.20]	mg/L
Cr 267.716†	55749.4	636.55	1.14%	[0.50]	mg/L
Cu 327.393†	72160.3	1000.63	1.39%	[0.50]	mg/L
Fe 239.562†	1807.7	50.67	2.80%	[4.00]	mg/L
Mg 279.077†	8163.7	167.68	2.05%	[10.00]	mg/L
Mn 257.610†	218950.3	1247.36	0.57%	[0.50]	mg/L
Mo 202.031†	13074.9	100.07	0.77%	[1.00]	mg/L
Ni 231.604†	16663.9	93.63	0.56%	[0.50]	mg/L
Pb 220.353†	2854.8	46.85	1.64%	[0.50]	mg/L
Sb 206.836†	1862.5	30.53	1.64%	[1.20]	mg/L
Se 196.026†	553.1	17.95	3.24%	[0.40]	mg/L
Si 251.611†	167709.5	1959.22	1.17%	[5.00]	mg/L
Sn 189.927†	5647.0	89.76	1.59%	[1.00]	mg/L
Ti 334.940†	717228.6	3344.73	0.47%	[1.00]	mg/L
Tl 190.801†	825.7	10.56	1.28%	[0.50]	mg/L
V 290.880†	146251.7	1112.58	0.76%	[1.00]	mg/L
Zn 206.200†	31584.9	278.09	0.88%	[1.00]	mg/L
K 766.490†	133481.6	956.52	0.72%	[50.00]	mg/L
Na 589.592†	686485.8	16095.91	2.34%	[50.00]	mg/L
Sr 407.771†	1066539.8	58673.33	5.50%	[1.00]	mg/L
Li 670.784†	83936.7	1186.04	1.41%	[1.00]	mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S4 **Date Collected: 2/21/2011 12:22:33 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S4

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Approved: February 22, 2011

Pierre Morris

Mean Data: S4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	4844561.9	49829.58	1.03%		
YRADIAL	295388.7	3352.03	1.13%		
Ga 417.206	1167096.7	18341.76	1.57%		
GaRADIAL	58757.0	916.62	1.56%		
Ag 328.068†	159136.1	2783.14	1.75%	[0.80]	mg/L
Al 396.153†	101629.1	712.14	0.70%	[20.00]	mg/L
As 188.979†	856.6	17.63	2.06%	[0.80]	mg/L
Ba 233.527†	113843.4	1620.29	1.42%	[2.00]	mg/L
Be 234.861†	57075.1	1152.38	2.02%	[0.10]	mg/L
B 249.677†	53258.5	871.36	1.64%	[1.00]	mg/L
Ca 227.546†	2117.6	40.77	1.93%	[20.00]	mg/L
Cd 228.802†	1750.9	31.25	1.78%	[0.10]	mg/L
Co 228.616†	7552.1	90.17	1.19%	[0.40]	mg/L
Cr 267.716†	110917.8	1472.75	1.33%	[1.00]	mg/L
Cu 327.393†	143687.4	2600.06	1.81%	[1.00]	mg/L
Fe 239.562†	3721.0	47.75	1.28%	[8.00]	mg/L
Mg 279.077†	16835.9	143.16	0.85%	[20.00]	mg/L
Mn 257.610†	435419.8	6018.77	1.38%	[1.00]	mg/L
Mo 202.031†	26209.8	420.62	1.60%	[2.00]	mg/L
Ni 231.604†	33258.7	450.42	1.35%	[1.00]	mg/L
Pb 220.353†	5733.0	76.07	1.33%	[1.00]	mg/L
Sb 206.836†	3760.4	77.06	2.05%	[2.40]	mg/L
Se 196.026†	1131.9	24.33	2.15%	[0.80]	mg/L
Si 251.611†	338217.9	6336.86	1.87%	[10.00]	mg/L
Sn 189.927†	11407.1	143.62	1.26%	[2.00]	mg/L
Ti 334.940†	1438870.2	19614.45	1.36%	[2.00]	mg/L
Tl 190.801†	1646.5	23.64	1.44%	[1.00]	mg/L
V 290.880†	294568.6	3681.58	1.25%	[2.00]	mg/L
Zn 206.200†	63513.6	943.73	1.49%	[2.00]	mg/L
K 766.490†	267316.9	2149.09	0.80%	[100.00]	mg/L
Na 589.592†	1367143.2	11391.69	0.83%	[100.00]	mg/L
Sr 407.771†	2174430.1	202957.93	9.33%	[2.00]	mg/L
Li 670.784†	164571.6	745.96	0.45%	[2.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Wt. Lin	129.7	200200	0.00000	0.999852	
Al 396.153	4	Wt. Lin	-21.2	5134	0.00000	0.999939	
As 188.979	3	Wt. Lin	0.4	1062	0.00000	0.999969	
Ba 233.527	4	Wt. Lin	18.0	57170	0.00000	0.999977	
Be 234.861	4	Wt. Lin	-1.5	569000	0.00000	0.999971	
B 249.677	3	Wt. Lin	-70.4	52980	0.00000	0.999978	
Ca 227.546	3	Wt. Lin	-4.3	104.8	0.00000	0.999925	
Cd 228.802	4	Wt. Lin	2.1	17170	0.00000	0.999187	
Co 228.616	4	Wt. Lin	0.6	18720	0.00000	0.999833	
Cr 267.716	4	Wt. Lin	18.5	111900	0.00000	0.999776	
Cu 327.393	4	Wt. Lin	-28.5	143500	0.00000	0.999917	
Fe 239.562	4	Wt. Lin	-1.3	455.5	0.00000	0.999646	
Mg 279.077	4	Wt. Lin	-14.0	830.7	0.00000	0.999896	
Mn 257.610	4	Wt. Lin	77.8	437200	0.00000	0.999983	
Mo 202.031	4	Wt. Lin	0.5	13130	0.00000	0.999945	
Ni 231.604	4	Wt. Lin	-5.1	33420	0.00000	0.999931	
Pb 220.353	4	Wt. Lin	11.2	5532	0.00000	0.995164	
Sb 206.836	4	Wt. Lin	-2.0	1570	0.00000	0.999807	
Se 196.026	3	Wt. Lin	-1.6	1402	0.00000	0.999940	
Si 251.611	4	Wt. Lin	110.9	33640	0.00000	0.999989	
Sn 189.927	4	Wt. Lin	6.2	5592	0.00000	0.998993	
Ti 334.940	4	Wt. Lin	-10.5	719300	0.00000	0.999991	
Tl 190.801	3	Wt. Lin	-3.2	1654	0.00000	0.999997	
V 290.880	4	Wt. Lin	-55.3	146700	0.00000	0.999993	
Zn 206.200	4	Wt. Lin	0.3	31730	0.00000	0.999981	
K 766.490	4	Non Lin, Calc Int	56.4	2664	0.08128	1.000000	
Na 589.592	4	Non Lin, Calc Int	215.7	13780	-1.12691	1.000000	
Sr 407.771	4	Wt. Lin	-216.5	1077000	0.00000	0.999958	
Li 670.784	4	Wt. Lin	-49.9	83400	0.00000	0.999907	

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Sequence No.: 6
Sample ID: ICV 2nd Vendor
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 2/21/2011 12:29:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV 2nd Vendor

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5000218.4						105525.52	2.11%
YRADIAL	309124.7						1743.94	0.56%
Ga 417.206	1201084.5						35308.77	2.94%
GaRADIAL	59450.1						1322.34	2.22%
Ag 328.068†	78130.4	0.391	mg/L	0.0137	0.391	mg/L	0.0137	3.51%
QC value within limits for Ag 328.068 Recovery = 97.66%								
Al 396.153†	52139.7	10.1	mg/L	0.06	10.1	mg/L	0.06	0.55%
QC value within limits for Al 396.153 Recovery = 101.46%								
As 188.979†	413.4	0.385	mg/L	0.0138	0.385	mg/L	0.0138	3.59%
QC value within limits for As 188.979 Recovery = 96.37%								
Ba 233.527†	56890.8	0.997	mg/L	0.0239	0.997	mg/L	0.0239	2.39%
QC value within limits for Ba 233.527 Recovery = 99.74%								
Be 234.861†	27282.5	0.0487	mg/L	0.00155	0.0487	mg/L	0.00155	3.18%
QC value within limits for Be 234.861 Recovery = 97.45%								
B 249.677†	26250.9	0.503	mg/L	0.0153	0.503	mg/L	0.0153	3.04%
QC value within limits for B 249.677 Recovery = 100.62%								
Ca 227.546†	1036.8	10.3	mg/L	0.35	10.3	mg/L	0.35	3.41%
QC value within limits for Ca 227.546 Recovery = 102.67%								
Cd 228.802†	845.5	0.0488	mg/L	0.00171	0.0488	mg/L	0.00171	3.51%
QC value within limits for Cd 228.802 Recovery = 97.50%								
Co 228.616†	3690.8	0.195	mg/L	0.0047	0.195	mg/L	0.0047	2.44%
QC value within limits for Co 228.616 Recovery = 97.31%								
Cr 267.716†	55348.4	0.494	mg/L	0.0108	0.494	mg/L	0.0108	2.19%
QC value within limits for Cr 267.716 Recovery = 98.89%								
Cu 327.393†	71715.4	0.502	mg/L	0.0192	0.502	mg/L	0.0192	3.82%
QC value within limits for Cu 327.393 Recovery = 100.39%								
Fe 239.562†	1819.5	4.00	mg/L	0.026	4.00	mg/L	0.026	0.65%
QC value within limits for Fe 239.562 Recovery = 99.90%								
Mg 279.077†	8214.1	9.91	mg/L	0.031	9.91	mg/L	0.031	0.32%
QC value within limits for Mg 279.077 Recovery = 99.08%								
Mn 257.610†	220350.3	0.508	mg/L	0.0123	0.508	mg/L	0.0123	2.41%
QC value within limits for Mn 257.610 Recovery = 101.69%								
Mo 202.031†	12920.3	0.984	mg/L	0.0246	0.984	mg/L	0.0246	2.50%
QC value within limits for Mo 202.031 Recovery = 98.43%								
Ni 231.604†	16640.4	0.498	mg/L	0.0095	0.498	mg/L	0.0095	1.92%
QC value within limits for Ni 231.604 Recovery = 99.57%								
Pb 220.353†	2853.1	0.519	mg/L	0.0147	0.519	mg/L	0.0147	2.83%
QC value within limits for Pb 220.353 Recovery = 103.76%								
Sb 206.836†	1892.4	1.21	mg/L	0.041	1.21	mg/L	0.041	3.39%
QC value within limits for Sb 206.836 Recovery = 100.93%								
Se 196.026†	546.0	0.394	mg/L	0.0092	0.394	mg/L	0.0092	2.33%
QC value within limits for Se 196.026 Recovery = 98.38%								
Si 251.611†	171552.1	5.08	mg/L	0.169	5.08	mg/L	0.169	3.32%
QC value within limits for Si 251.611 Recovery = 101.62%								
Sn 189.927†	5729.3	1.02	mg/L	0.023	1.02	mg/L	0.023	2.26%
QC value within limits for Sn 189.927 Recovery = 102.35%								
Ti 334.940†	728367.9	1.01	mg/L	0.009	1.01	mg/L	0.009	0.87%
QC value within limits for Ti 334.940 Recovery = 101.26%								
Tl 190.801†	833.6	0.518	mg/L	0.0099	0.518	mg/L	0.0099	1.92%
QC value within limits for Tl 190.801 Recovery = 103.51%								
V 290.880†	142532.9	0.971	mg/L	0.0247	0.971	mg/L	0.0247	2.54%
QC value within limits for V 290.880 Recovery = 97.13%								
Zn 206.200†	31014.8	0.980	mg/L	0.0156	0.980	mg/L	0.0156	1.60%
QC value within limits for Zn 206.200 Recovery = 97.98%								
K 766.490†	131907.2	49.4	mg/L	0.37	49.4	mg/L	0.37	0.76%
QC value within limits for K 766.490 Recovery = 98.72%								
Na 589.592†	661887.3	48.2	mg/L	0.52	48.2	mg/L	0.52	1.08%

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QC value within limits for Na 589.592 Recovery = 96.40%
Sr 407.771† 1048119.8 0.973 mg/L 0.0801 0.973 mg/L 0.0801 8.23%
QC value within limits for Sr 407.771 Recovery = 97.29%
Li 670.784† 83706.1 1.00 mg/L 0.008 1.00 mg/L 0.008 0.77%
QC value within limits for Li 670.784 Recovery = 100.43%
All analyte(s) passed QC.

Sequence No.: 7 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 2/21/2011 12:35:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5178833.5						54818.67	1.06%
YRADIAL	312611.1						4635.04	1.48%
Ga 417.206	1256346.3						9080.78	0.72%
GaRADIAL	60021.0						746.26	1.24%
Ag 328.068†	64.7	-0.00032	mg/L	0.000637	-0.00032	mg/L	0.000637	197.09%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-41.0	-0.00387	mg/L	0.008606	-0.00387	mg/L	0.008606	222.18%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.3	-0.00161	mg/L	0.001494	-0.00161	mg/L	0.001494	92.90%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	9.0	-0.00016	mg/L	0.000077	-0.00016	mg/L	0.000077	48.91%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	25.9	0.00005	mg/L	0.000043	0.00005	mg/L	0.000043	87.53%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	574.5	0.0122	mg/L	0.00064	0.0122	mg/L	0.00064	5.29%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-1.3	0.0288	mg/L	0.01178	0.0288	mg/L	0.01178	40.90%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	0.9	-0.00006	mg/L	0.000106	-0.00006	mg/L	0.000106	172.13%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-0.0	-0.00004	mg/L	0.000206	-0.00004	mg/L	0.000206	570.42%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-12.8	-0.00028	mg/L	0.000122	-0.00028	mg/L	0.000122	43.58%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-47.9	-0.00013	mg/L	0.000231	-0.00013	mg/L	0.000231	171.32%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-2.7	-0.00319	mg/L	0.005548	-0.00319	mg/L	0.005548	173.86%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-10.0	0.00482	mg/L	0.000924	0.00482	mg/L	0.000924	19.16%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	20.3	-0.00013	mg/L	0.000011	-0.00013	mg/L	0.000011	8.24%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-0.4	-0.00007	mg/L	0.000654	-0.00007	mg/L	0.000654	982.90%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-5.0	0.00000	mg/L	0.000293	0.00000	mg/L	0.000293	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	7.8	-0.00061	mg/L	0.001530	-0.00061	mg/L	0.001530	250.58%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	0.3	0.00147	mg/L	0.000803	0.00147	mg/L	0.000803	54.56%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-1.2	0.00024	mg/L	0.000861	0.00024	mg/L	0.000861	357.24%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	150.0	0.00116	mg/L	0.003399	0.00116	mg/L	0.003399	292.03%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	11.5	0.00095	mg/L	0.000461	0.00095	mg/L	0.000461	48.42%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	38.6	0.00007	mg/L	0.000138	0.00007	mg/L	0.000138	201.17%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-1.0	0.00130	mg/L	0.002989	0.00130	mg/L	0.002989	229.80%
QC value within limits for Tl 190.801 Recovery = Not calculated								

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V 290.880† 43.1 0.00067 mg/L 0.000780 0.00067 mg/L 0.000780 116.24%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† -2.5 -0.00009 mg/L 0.000182 -0.00009 mg/L 0.000182 203.92%
QC value within limits for Zn 206.200 Recovery = Not calculated
K 766.490† 237.0 0.0678 mg/L 0.01193 0.0678 mg/L 0.01193 17.60%
QC value within limits for K 766.490 Recovery = Not calculated
Na 589.592† 338.8 0.00894 mg/L 0.004352 0.00894 mg/L 0.004352 48.70%
QC value within limits for Na 589.592 Recovery = Not calculated
Sr 407.771† 69.6 0.00027 mg/L 0.000049 0.00027 mg/L 0.000049 18.42%
QC value within limits for Sr 407.771 Recovery = Not calculated
Li 670.784† -96.8 -0.00056 mg/L 0.001187 -0.00056 mg/L 0.001187 211.02%
QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 10**
Sample ID: LLCCV **Date Collected: 2/21/2011 12:42:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5235746.5						43490.48	0.83%
YRADIAL	307838.4						8732.36	2.84%
Ga 417.206	1264287.6						9363.71	0.74%
GaRADIAL	59448.0						765.42	1.29%
Ag 328.068†	1652.6	0.00763	mg/L	0.000145	0.00763	mg/L	0.000145	1.91%
QC value greater than the upper limit for Ag 328.068 Recovery = 190.67%								
Al 396.153†	1002.5	0.199	mg/L	0.0086	0.199	mg/L	0.0086	4.31%
QC value greater than the upper limit for Al 396.153 Recovery = 199.12%								
As 188.979†	10.1	0.00906	mg/L	0.001159	0.00906	mg/L	0.001159	12.80%
QC value greater than the upper limit for As 188.979 Recovery = 226.40%								
Ba 233.527†	1159.3	0.0200	mg/L	0.00015	0.0200	mg/L	0.00015	0.76%
QC value greater than the upper limit for Ba 233.527 Recovery = 200.15%								
Be 234.861†	566.6	0.00101	mg/L	0.000012	0.00101	mg/L	0.000012	1.19%
QC value less than the lower limit for Be 234.861 Recovery = 50.72%								
B 249.677†	876.5	0.0180	mg/L	0.00105	0.0180	mg/L	0.00105	5.82%
QC value less than the lower limit for B 249.677 Recovery = 18.00%								
Ca 227.546†	15.8	0.199	mg/L	0.0600	0.199	mg/L	0.0600	30.16%
QC value within limits for Ca 227.546 Recovery = 99.39%								
Cd 228.802†	17.9	0.00090	mg/L	0.000172	0.00090	mg/L	0.000172	19.04%
QC value greater than the upper limit for Cd 228.802 Recovery = 180.28%								
Co 228.616†	76.5	0.00401	mg/L	0.000303	0.00401	mg/L	0.000303	7.56%
QC value greater than the upper limit for Co 228.616 Recovery = 200.29%								
Cr 267.716†	1152.8	0.0101	mg/L	0.00026	0.0101	mg/L	0.00026	2.54%
QC value greater than the upper limit for Cr 267.716 Recovery = 202.75%								
Cu 327.393†	1398.7	0.00998	mg/L	0.000097	0.00998	mg/L	0.000097	0.97%
QC value greater than the upper limit for Cu 327.393 Recovery = 199.69%								
Fe 239.562†	34.6	0.0787	mg/L	0.00256	0.0787	mg/L	0.00256	3.26%
QC value within limits for Fe 239.562 Recovery = 78.70%								
Mg 279.077†	159.9	0.209	mg/L	0.0136	0.209	mg/L	0.0136	6.49%
QC value less than the lower limit for Mg 279.077 Recovery = 41.88%								
Mn 257.610†	4355.0	0.00988	mg/L	0.000167	0.00988	mg/L	0.000167	1.69%
QC value greater than the upper limit for Mn 257.610 Recovery = 197.55%								
Mo 202.031†	262.0	0.0199	mg/L	0.00009	0.0199	mg/L	0.00009	0.43%
QC value greater than the upper limit for Mo 202.031 Recovery = 199.25%								
Ni 231.604†	330.6	0.0100	mg/L	0.00016	0.0100	mg/L	0.00016	1.57%
QC value greater than the upper limit for Ni 231.604 Recovery = 200.81%								
Pb 220.353†	66.2	0.0101	mg/L	0.00038	0.0101	mg/L	0.00038	3.76%
QC value greater than the upper limit for Pb 220.353 Recovery = 201.07%								
Sb 206.836†	38.5	0.0259	mg/L	0.00015	0.0259	mg/L	0.00015	0.57%
QC value greater than the upper limit for Sb 206.836 Recovery = 215.65%								
Se 196.026†	11.1	0.00908	mg/L	0.001595	0.00908	mg/L	0.001595	17.57%
QC value greater than the upper limit for Se 196.026 Recovery = 226.90%								
Si 251.611†	3408.4	0.0977	mg/L	0.00359	0.0977	mg/L	0.00359	3.67%

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QC value greater than the upper limit for Si 251.611 Recovery = 195.44%

Sn 189.927†	118.0	0.0200 mg/L	0.00054	0.0200 mg/L	0.00054	2.70%
QC value greater than the upper limit for Sn 189.927 Recovery = 199.96%						
Ti 334.940†	14130.8	0.0197 mg/L	0.00020	0.0197 mg/L	0.00020	1.00%
QC value greater than the upper limit for Ti 334.940 Recovery = 196.60%						
Tl 190.801†	8.4	0.00721 mg/L	0.002534	0.00721 mg/L	0.002534	35.12%
QC value greater than the upper limit for Tl 190.801 Recovery = 144.29%						
V 290.880†	2771.6	0.0193 mg/L	0.00153	0.0193 mg/L	0.00153	7.96%
QC value greater than the upper limit for V 290.880 Recovery = 192.57%						
Zn 206.200†	648.4	0.0205 mg/L	0.00020	0.0205 mg/L	0.00020	1.00%
QC value within limits for Zn 206.200 Recovery = 102.37%						
K 766.490†	2798.8	1.03 mg/L	0.008	1.03 mg/L	0.008	0.79%
QC value within limits for K 766.490 Recovery = 102.82%						
Na 589.592†	14456.7	1.03 mg/L	0.009	1.03 mg/L	0.009	0.85%
QC value greater than the upper limit for Na 589.592 Recovery = 206.68%						
Sr 407.771†	21272.3	0.0199 mg/L	0.00165	0.0199 mg/L	0.00165	8.29%
QC value greater than the upper limit for Sr 407.771 Recovery = 199.43%						
Li 670.784†	1661.9	0.0205 mg/L	0.00038	0.0205 mg/L	0.00038	1.87%
QC value greater than the upper limit for Li 670.784 Recovery = 205.26%						

QC Failed. Continue with analysis.

Sequence No.: 9 **Autosampler Location: 7**
Sample ID: ICSA **Date Collected: 2/21/2011 12:49:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4580296.0						2209.59	0.05%
YRADIAL	295513.0						6153.86	2.08%
Ga 417.206	1121559.3						16708.40	1.49%
GaRADIAL	58408.1						1106.17	1.89%
Ag 328.068†	943.1	-0.00083	mg/L	0.001024	-0.00083	mg/L	0.001024	123.59%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	1258932.5	245	mg/L	0.6	245	mg/L	0.6	0.24%
QC value within limits for Al 396.153 Recovery = 98.09%								
As 188.979†	6.6	-0.00326	mg/L	0.003152	-0.00326	mg/L	0.003152	96.82%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	110.0	-0.00069	mg/L	0.000107	-0.00069	mg/L	0.000107	15.48%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	11204.4	-0.00006	mg/L	0.000269	-0.00006	mg/L	0.000269	414.68%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	-9669.0	0.00071	mg/L	0.007132	0.00071	mg/L	0.007132	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	29351.5	280	mg/L	3.6	280	mg/L	3.6	1.30%
QC value within limits for Ca 227.546 Recovery = 112.17%								
Cd 228.802†	1.3	-0.00020	mg/L	0.000078	-0.00020	mg/L	0.000078	38.97%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	25.7	-0.00122	mg/L	0.000281	-0.00122	mg/L	0.000281	22.99%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	654.1	-0.00037	mg/L	0.000231	-0.00037	mg/L	0.000231	61.51%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-1514.9	0.00090	mg/L	0.000338	0.00090	mg/L	0.000338	37.51%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	44622.8	98.0	mg/L	1.01	98.0	mg/L	1.01	1.04%
QC value within limits for Fe 239.562 Recovery = 97.96%								
Mg 279.077†	206689.0	249	mg/L	2.5	249	mg/L	2.5	1.01%
QC value within limits for Mg 279.077 Recovery = 99.51%								
Mn 257.610†	-160.8	0.00025	mg/L	0.000232	0.00025	mg/L	0.000232	91.51%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-7.3	0.00424	mg/L	0.000638	0.00424	mg/L	0.000638	15.05%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-60.0	-0.00170	mg/L	0.000227	-0.00170	mg/L	0.000227	13.36%
QC value within limits for Ni 231.604 Recovery = Not calculated								

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Pb 220.353†	-88.4	-0.00075 mg/L	0.002021	-0.00075 mg/L	0.002021	270.97%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	22.6	0.0156 mg/L	0.00189	0.0156 mg/L	0.00189	12.13%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-110.9	0.00091 mg/L	0.004514	0.00091 mg/L	0.004514	497.50%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	243.0	0.00394 mg/L	0.002334	0.00394 mg/L	0.002334	59.30%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-26.2	-0.00579 mg/L	0.001930	-0.00579 mg/L	0.001930	33.31%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	-2068.0	-0.00006 mg/L	0.000098	-0.00006 mg/L	0.000098	158.25%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	155.2	0.0705 mg/L	0.00537	0.0705 mg/L	0.00537	7.62%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 290.880†	-845.5	0.00214 mg/L	0.000524	0.00214 mg/L	0.000524	24.50%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	199.3	0.00404 mg/L	0.000328	0.00404 mg/L	0.000328	8.11%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490†	121.5	0.0244 mg/L	0.03891	0.0244 mg/L	0.03891	159.39%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592†	546.9	0.0240 mg/L	0.00500	0.0240 mg/L	0.00500	20.81%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771†	13959.0	0.00141 mg/L	0.000335	0.00141 mg/L	0.000335	23.83%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Li 670.784†	28.7	0.00094 mg/L	0.001332	0.00094 mg/L	0.001332	141.37%
QC value within limits for Li 670.784 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 8**
Sample ID: ICSAB **Date Collected: 2/21/2011 12:55:04 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4697141.0						27315.80	0.58%
YRADIAL	302439.8						10838.70	3.58%
Ga 417.206	1147543.9						4020.74	0.35%
GaRADIAL	59424.0						1893.14	3.19%
Ag 328.068†	100888.8	0.499	mg/L	0.0074	0.499	mg/L	0.0074	1.49%
QC value within limits for Ag 328.068 Recovery = 99.78%								
Al 396.153†	1182054.2	230	mg/L	11.5	230	mg/L	11.5	5.01%
QC value within limits for Al 396.153 Recovery = 92.10%								
As 188.979†	270.2	0.247	mg/L	0.0037	0.247	mg/L	0.0037	1.50%
QC value within limits for As 188.979 Recovery = 98.87%								
Ba 233.527†	14176.5	0.246	mg/L	0.0017	0.246	mg/L	0.0017	0.71%
QC value within limits for Ba 233.527 Recovery = 98.42%								
Be 234.861†	154668.7	0.253	mg/L	0.0066	0.253	mg/L	0.0066	2.60%
QC value within limits for Be 234.861 Recovery = 101.11%								
B 249.677†	-9445.3	-0.00625	mg/L	0.014740	-0.00625	mg/L	0.014740	235.66%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	28233.5	270	mg/L	1.9	270	mg/L	1.9	0.72%
QC value within limits for Ca 227.546 Recovery = 108.04%								
Cd 228.802†	7851.4	0.458	mg/L	0.0130	0.458	mg/L	0.0130	2.85%
QC value within limits for Cd 228.802 Recovery = 91.59%								
Co 228.616†	4360.4	0.230	mg/L	0.0027	0.230	mg/L	0.0027	1.15%
QC value within limits for Co 228.616 Recovery = 92.13%								
Cr 267.716†	27811.1	0.243	mg/L	0.0021	0.243	mg/L	0.0021	0.87%
QC value within limits for Cr 267.716 Recovery = 97.07%								
Cu 327.393†	34825.7	0.254	mg/L	0.0047	0.254	mg/L	0.0047	1.85%
QC value within limits for Cu 327.393 Recovery = 101.48%								
Fe 239.562†	43135.8	94.7	mg/L	0.55	94.7	mg/L	0.55	0.58%
QC value within limits for Fe 239.562 Recovery = 94.69%								
Mg 279.077†	199834.9	241	mg/L	1.6	241	mg/L	1.6	0.68%

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QC value within limits for Mg 279.077 Recovery = 96.21%
Mn 257.610† 106258.5 0.245 mg/L 0.0015 0.245 mg/L 0.0015 0.63%
QC value within limits for Mn 257.610 Recovery = 97.89%
Mo 202.031† -3.7 0.00442 mg/L 0.000532 0.00442 mg/L 0.000532 12.04%
QC value within limits for Mo 202.031 Recovery = Not calculated
Ni 231.604† 15446.2 0.462 mg/L 0.0035 0.462 mg/L 0.0035 0.75%
QC value within limits for Ni 231.604 Recovery = 92.42%
Pb 220.353† 2686.2 0.500 mg/L 0.0047 0.500 mg/L 0.0047 0.95%
QC value within limits for Pb 220.353 Recovery = 99.93%
Sb 206.836† 803.6 0.512 mg/L 0.0036 0.512 mg/L 0.0036 0.71%
QC value within limits for Sb 206.836 Recovery = 102.33%
Se 196.026† 229.6 0.242 mg/L 0.0052 0.242 mg/L 0.0052 2.16%
QC value within limits for Se 196.026 Recovery = 96.75%
Si 251.611† 291.3 0.00537 mg/L 0.001301 0.00537 mg/L 0.001301 24.22%
QC value within limits for Si 251.611 Recovery = Not calculated
Sn 189.927† -21.7 -0.00498 mg/L 0.000832 -0.00498 mg/L 0.000832 16.70%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 334.940† -1893.4 0.00000 mg/L 0.000331 0.00000 mg/L 0.000331 >999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated
Tl 190.801† 942.4 0.547 mg/L 0.0027 0.547 mg/L 0.0027 0.49%
QC value within limits for Tl 190.801 Recovery = 109.48%
V 290.880† 35051.0 0.246 mg/L 0.0015 0.246 mg/L 0.0015 0.61%
QC value within limits for V 290.880 Recovery = 98.58%
Zn 206.200† 14575.3 0.458 mg/L 0.0024 0.458 mg/L 0.0024 0.51%
QC value within limits for Zn 206.200 Recovery = 91.70%
K 766.490† 13523.6 5.05 mg/L 0.035 5.05 mg/L 0.035 0.70%
QC value within limits for K 766.490 Recovery = 100.97%
Na 589.592† 68156.5 4.93 mg/L 0.019 4.93 mg/L 0.019 0.38%
QC value within limits for Na 589.592 Recovery = 98.63%
Sr 407.771† 13274.1 0.00116 mg/L 0.000280 0.00116 mg/L 0.000280 24.09%
QC value within limits for Sr 407.771 Recovery = Not calculated
Li 670.784† 32.1 0.00098 mg/L 0.001855 0.00098 mg/L 0.001855 188.67%
QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 1:00:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4992718.3						22570.41	0.45%
YRADIAL	295700.7						4435.72	1.50%
Ga 417.206	1211192.7						11616.93	0.96%
GaRADIAL	57307.6						926.83	1.62%
Ag 328.068†	78901.0	0.395	mg/L	0.0055	0.395	mg/L	0.0055	1.40%
QC value within limits for Ag 328.068 Recovery = 98.63%								
Al 396.153†	52211.1	10.2	mg/L	0.05	10.2	mg/L	0.05	0.52%
QC value within limits for Al 396.153 Recovery = 101.60%								
As 188.979†	414.1	0.386	mg/L	0.0050	0.386	mg/L	0.0050	1.30%
QC value within limits for As 188.979 Recovery = 96.50%								
Ba 233.527†	57511.0	1.01	mg/L	0.011	1.01	mg/L	0.011	1.08%
QC value within limits for Ba 233.527 Recovery = 100.83%								
Be 234.861†	28123.2	0.0502	mg/L	0.00070	0.0502	mg/L	0.00070	1.40%
QC value within limits for Be 234.861 Recovery = 100.42%								
B 249.677†	26441.4	0.507	mg/L	0.0085	0.507	mg/L	0.0085	1.68%
QC value within limits for B 249.677 Recovery = 101.41%								
Ca 227.546†	1010.7	10.0	mg/L	0.14	10.0	mg/L	0.14	1.43%
QC value within limits for Ca 227.546 Recovery = 100.20%								
Cd 228.802†	849.6	0.0490	mg/L	0.00090	0.0490	mg/L	0.00090	1.84%
QC value within limits for Cd 228.802 Recovery = 98.02%								
Co 228.616†	3727.5	0.197	mg/L	0.0009	0.197	mg/L	0.0009	0.45%
QC value within limits for Co 228.616 Recovery = 98.30%								

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Cr 267.716†	56080.8	0.501 mg/L	0.0058	0.501 mg/L	0.0058	1.16%
QC value within limits for Cr 267.716 Recovery = 100.21%						
Cu 327.393†	71342.5	0.499 mg/L	0.0095	0.499 mg/L	0.0095	1.90%
QC value within limits for Cu 327.393 Recovery = 99.87%						
Fe 239.562†	1852.4	4.07 mg/L	0.049	4.07 mg/L	0.049	1.20%
QC value within limits for Fe 239.562 Recovery = 101.71%						
Mg 279.077†	8421.1	10.2 mg/L	0.09	10.2 mg/L	0.09	0.92%
QC value within limits for Mg 279.077 Recovery = 101.57%						
Mn 257.610†	219749.8	0.507 mg/L	0.0066	0.507 mg/L	0.0066	1.30%
QC value within limits for Mn 257.610 Recovery = 101.42%						
Mo 202.031†	13144.1	1.00 mg/L	0.007	1.00 mg/L	0.007	0.75%
QC value within limits for Mo 202.031 Recovery = 100.14%						
Ni 231.604†	16789.9	0.502 mg/L	0.0061	0.502 mg/L	0.0061	1.22%
QC value within limits for Ni 231.604 Recovery = 100.47%						
Pb 220.353†	2851.6	0.519 mg/L	0.0026	0.519 mg/L	0.0026	0.50%
QC value within limits for Pb 220.353 Recovery = 103.72%						
Sb 206.836†	1821.2	1.17 mg/L	0.015	1.17 mg/L	0.015	1.28%
QC value within limits for Sb 206.836 Recovery = 97.16%						
Se 196.026†	542.8	0.391 mg/L	0.0103	0.391 mg/L	0.0103	2.64%
QC value within limits for Se 196.026 Recovery = 97.79%						
Si 251.611†	166846.1	4.94 mg/L	0.075	4.94 mg/L	0.075	1.52%
QC value within limits for Si 251.611 Recovery = 98.82%						
Sn 189.927†	5626.7	1.01 mg/L	0.003	1.01 mg/L	0.003	0.32%
QC value within limits for Sn 189.927 Recovery = 100.51%						
Ti 334.940†	719920.7	1.00 mg/L	0.008	1.00 mg/L	0.008	0.76%
QC value within limits for Ti 334.940 Recovery = 100.09%						
Tl 190.801†	824.1	0.512 mg/L	0.0018	0.512 mg/L	0.0018	0.34%
QC value within limits for Tl 190.801 Recovery = 102.33%						
V 290.880†	146798.6	1.00 mg/L	0.012	1.00 mg/L	0.012	1.20%
QC value within limits for V 290.880 Recovery = 100.04%						
Zn 206.200†	31849.3	1.01 mg/L	0.006	1.01 mg/L	0.006	0.61%
QC value within limits for Zn 206.200 Recovery = 100.61%						
K 766.490†	133700.0	50.0 mg/L	0.35	50.0 mg/L	0.35	0.70%
QC value within limits for K 766.490 Recovery = 100.06%						
Na 589.592†	685187.1	49.9 mg/L	0.36	49.9 mg/L	0.36	0.71%
QC value within limits for Na 589.592 Recovery = 99.81%						
Sr 407.771†	1066363.4	0.990 mg/L	0.0637	0.990 mg/L	0.0637	6.44%
QC value within limits for Sr 407.771 Recovery = 98.98%						
Li 670.784†	83510.0	1.00 mg/L	0.004	1.00 mg/L	0.004	0.38%
QC value within limits for Li 670.784 Recovery = 100.19%						

All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 1:07:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5234424.1						53847.55	1.03%
YRADIAL	319176.3						7224.78	2.26%
Ga 417.206	1253922.9						39468.18	3.15%
GaRADIAL	61025.9						886.83	1.45%
Ag 328.068†	5.5	-0.00062	mg/L	0.000487	-0.00062	mg/L	0.000487	78.46%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-88.6	-0.0131	mg/L	0.00084	-0.0131	mg/L	0.00084	6.40%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.3	0.00084	mg/L	0.002830	0.00084	mg/L	0.002830	336.50%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	6.9	-0.00019	mg/L	0.000068	-0.00019	mg/L	0.000068	34.85%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-1.8	0.00000	mg/L	0.000043	0.00000	mg/L	0.000043	>999.9%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	254.5	0.00614	mg/L	0.000604	0.00614	mg/L	0.000604	9.83%

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QC value within limits for B 249.677 Recovery = Not calculated

Ca 227.546†	-3.6	0.00662 mg/L	0.036103	0.00662 mg/L	0.036103	545.22%
QC value within limits for Ca 227.546 Recovery = Not calculated							
Cd 228.802†	2.6	0.00002 mg/L	0.000068	0.00002 mg/L	0.000068	305.60%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	-1.1	-0.00009 mg/L	0.000412	-0.00009 mg/L	0.000412	450.60%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-5.6	-0.00022 mg/L	0.000051	-0.00022 mg/L	0.000051	23.67%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	27.5	0.00039 mg/L	0.000504	0.00039 mg/L	0.000504	129.49%
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 239.562†	-1.9	-0.00135 mg/L	0.000255	-0.00135 mg/L	0.000255	18.87%
QC value within limits for Fe 239.562 Recovery = Not calculated							
Mg 279.077†	-10.5	0.00413 mg/L	0.008240	0.00413 mg/L	0.008240	199.28%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	1.1	-0.00017 mg/L	0.000004	-0.00017 mg/L	0.000004	2.33%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	5.9	0.00041 mg/L	0.000229	0.00041 mg/L	0.000229	56.10%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	-1.4	0.00011 mg/L	0.000242	0.00011 mg/L	0.000242	220.42%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	10.3	-0.00016 mg/L	0.000758	-0.00016 mg/L	0.000758	482.38%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-1.2	0.00048 mg/L	0.001785	0.00048 mg/L	0.001785	370.64%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.7	0.00164 mg/L	0.005652	0.00164 mg/L	0.005652	343.95%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	10.9	-0.00298 mg/L	0.000553	-0.00298 mg/L	0.000553	18.56%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	10.2	0.00072 mg/L	0.000495	0.00072 mg/L	0.000495	69.22%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-47.0	-0.00005 mg/L	0.000140	-0.00005 mg/L	0.000140	277.28%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-4.0	-0.00048 mg/L	0.002223	-0.00048 mg/L	0.002223	463.88%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	-104.4	-0.00034 mg/L	0.000916	-0.00034 mg/L	0.000916	273.25%
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	0.3	0.00000 mg/L	0.000076	0.00000 mg/L	0.000076	>999.9%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	103.2	0.0176 mg/L	0.01400	0.0176 mg/L	0.01400	79.72%
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	125.7	-0.00653 mg/L	0.000997	-0.00653 mg/L	0.000997	15.27%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	4.8	0.00021 mg/L	0.000087	0.00021 mg/L	0.000087	42.41%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	-22.6	0.00033 mg/L	0.000972	0.00033 mg/L	0.000972	296.53%
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 13 **Autosampler Location: 38**
Sample ID: PBW 59 WG356954-02 **Date Collected: 2/21/2011 1:14:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 59 WG356954-02

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: PBW 59 WG356954-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5277773.0						86227.40	1.63%
YRADIAL	325456.3						4406.49	1.35%
Ga 417.206	1213523.0						15971.08	1.32%
GaRADIAL	62332.3						607.06	0.97%
Ag 328.068†	-26.2	-0.00078	mg/L	0.000709	-0.00078	mg/L	0.000709	91.02%
Al 396.153†	-64.0	-0.00835	mg/L	0.005406	-0.00835	mg/L	0.005406	64.75%
As 188.979†	0.6	0.00019	mg/L	0.001738	0.00019	mg/L	0.001738	911.08%
Ba 233.527†	8.2	-0.00017	mg/L	0.000044	-0.00017	mg/L	0.000044	25.44%

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Be 234.861†	-97.3	-0.00017 mg/L	0.000011	-0.00017 mg/L	0.000011	6.74%
B 249.677†	212.5	0.00533 mg/L	0.000045	0.00533 mg/L	0.000045	0.85%
Ca 227.546†	14.9	0.183 mg/L	0.0506	0.183 mg/L	0.0506	27.60%
Cd 228.802†	3.0	0.00005 mg/L	0.000106	0.00005 mg/L	0.000106	231.81%
Co 228.616†	0.7	0.00000 mg/L	0.000239	0.00000 mg/L	0.000239	>999.9%
Cr 267.716†	25.2	0.00006 mg/L	0.000144	0.00006 mg/L	0.000144	235.85%
Cu 327.393†	-60.0	-0.00022 mg/L	0.000083	-0.00022 mg/L	0.000083	37.68%
Fe 239.562†	-2.7	-0.00314 mg/L	0.002176	-0.00314 mg/L	0.002176	69.19%
Mg 279.077†	84.5	0.119 mg/L	0.0021	0.119 mg/L	0.0021	1.74%
Mn 257.610†	-27.2	-0.00024 mg/L	0.000013	-0.00024 mg/L	0.000013	5.38%
Mo 202.031†	-3.7	-0.00032 mg/L	0.000498	-0.00032 mg/L	0.000498	156.97%
Ni 231.604†	4.7	0.00029 mg/L	0.000313	0.00029 mg/L	0.000313	106.26%
Pb 220.353†	7.8	-0.00061 mg/L	0.000555	-0.00061 mg/L	0.000555	91.33%
Sb 206.836†	4.0	0.00381 mg/L	0.001228	0.00381 mg/L	0.001228	32.21%
Se 196.026†	4.4	0.00429 mg/L	0.002910	0.00429 mg/L	0.002910	67.81%
Si 251.611†	17.6	-0.00277 mg/L	0.000328	-0.00277 mg/L	0.000328	11.86%
Sn 189.927†	11.8	0.00101 mg/L	0.000566	0.00101 mg/L	0.000566	56.20%
Ti 334.940†	-315.7	-0.00042 mg/L	0.000063	-0.00042 mg/L	0.000063	14.96%
Tl 190.801†	-7.3	-0.00249 mg/L	0.003417	-0.00249 mg/L	0.003417	137.12%
V 290.880†	-67.7	-0.00008 mg/L	0.000463	-0.00008 mg/L	0.000463	549.58%
Zn 206.200†	606.9	0.0191 mg/L	0.00023	0.0191 mg/L	0.00023	1.19%
K 766.490†	146.4	0.0338 mg/L	0.02677	0.0338 mg/L	0.02677	79.29%
Na 589.592†	743.3	0.0383 mg/L	0.00278	0.0383 mg/L	0.00278	7.25%
Sr 407.771†	1521.0	0.00161 mg/L	0.000125	0.00161 mg/L	0.000125	7.74%
Li 670.784†	-131.8	-0.00098 mg/L	0.000770	-0.00098 mg/L	0.000770	78.40%

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Sequence No.: 14 **Autosampler Location: 39**
Sample ID: LCSW 59 WG356954-03 **Date Collected: 2/21/2011 1:20:41 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 59 WG356954-03

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: LCSW 59 WG356954-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5183132.4						47362.82	0.91%
YRADIAL	311747.5						4977.09	1.60%
Ga 417.206	1225424.9						31454.99	2.57%
GaRADIAL	60470.3						271.48	0.45%
Ag 328.068†	38010.9	0.190	mg/L	0.0067	0.190	mg/L	0.0067	3.54%
Al 396.153†	24793.9	4.83	mg/L	0.069	4.83	mg/L	0.069	1.42%
As 188.979†	195.1	0.182	mg/L	0.0059	0.182	mg/L	0.0059	3.26%
Ba 233.527†	27542.4	0.483	mg/L	0.0102	0.483	mg/L	0.0102	2.11%
Be 234.861†	13046.3	0.0233	mg/L	0.00082	0.0233	mg/L	0.00082	3.51%
B 249.677†	49588.5	0.941	mg/L	0.0373	0.941	mg/L	0.0373	3.97%
Ca 227.546†	465.2	4.64	mg/L	0.118	4.64	mg/L	0.118	2.54%
Cd 228.802†	405.2	0.0233	mg/L	0.00092	0.0233	mg/L	0.00092	3.94%
Co 228.616†	1775.2	0.0936	mg/L	0.00120	0.0936	mg/L	0.00120	1.29%
Cr 267.716†	26778.6	0.239	mg/L	0.0046	0.239	mg/L	0.0046	1.91%
Cu 327.393†	34973.8	0.245	mg/L	0.0101	0.245	mg/L	0.0101	4.12%
Fe 239.562†	887.8	1.95	mg/L	0.012	1.95	mg/L	0.012	0.60%
Mg 279.077†	4052.6	4.90	mg/L	0.036	4.90	mg/L	0.036	0.73%
Mn 257.610†	106428.7	0.246	mg/L	0.0056	0.246	mg/L	0.0056	2.27%
Mo 202.031†	6289.8	0.479	mg/L	0.0123	0.479	mg/L	0.0123	2.57%
Ni 231.604†	8043.8	0.241	mg/L	0.0063	0.241	mg/L	0.0063	2.63%
Pb 220.353†	1341.6	0.243	mg/L	0.0035	0.243	mg/L	0.0035	1.45%
Sb 206.836†	882.9	0.566	mg/L	0.0128	0.566	mg/L	0.0128	2.26%
Se 196.026†	254.5	0.184	mg/L	0.0093	0.184	mg/L	0.0093	5.08%
Si 251.611†	82538.5	2.44	mg/L	0.103	2.44	mg/L	0.103	4.21%
Sn 189.927†	-1.9	-0.00144	mg/L	0.001364	-0.00144	mg/L	0.001364	94.97%
Ti 334.940†	346562.5	0.482	mg/L	0.0089	0.482	mg/L	0.0089	1.85%
Tl 190.801†	382.3	0.239	mg/L	0.0037	0.239	mg/L	0.0037	1.56%
V 290.880†	70368.4	0.480	mg/L	0.0121	0.480	mg/L	0.0121	2.52%
Zn 206.200†	14723.7	0.465	mg/L	0.0090	0.465	mg/L	0.0090	1.94%
K 766.490†	64147.3	24.0	mg/L	0.22	24.0	mg/L	0.22	0.90%
Na 589.592†	330271.1	24.0	mg/L	0.46	24.0	mg/L	0.46	1.93%

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Sr 407.771†	507751.4	0.471	mg/L	0.0376	0.471	mg/L	0.0376 7.97%
Li 670.784†	40485.5	0.486	mg/L	0.0043	0.486	mg/L	0.0043 0.89%

Sequence No.: 15 **Autosampler Location: 40**
Sample ID: FBLK WG356907-01 **Date Collected: 2/21/2011 1:27:25 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK WG356907-01

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: FBLK WG356907-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5007855.3						23375.44	0.47%
YRADIAL	306309.4						6650.87	2.17%
Ga 417.206	1195118.8						17144.14	1.43%
GaRADIAL	58081.1						1623.25	2.79%
Ag 328.068†	-31.8	-0.00080	mg/L	0.001374	-0.00080	mg/L	0.001374	171.02%
Al 396.153†	-97.0	-0.0148	mg/L	0.01580	-0.0148	mg/L	0.01580	106.94%
As 188.979†	1.1	0.00062	mg/L	0.002330	0.00062	mg/L	0.002330	374.40%
Ba 233.527†	10.0	-0.00014	mg/L	0.000075	-0.00014	mg/L	0.000075	55.49%
Be 234.861†	-94.4	-0.00017	mg/L	0.000006	-0.00017	mg/L	0.000006	3.70%
B 249.677†	544.2	0.0116	mg/L	0.00017	0.0116	mg/L	0.00017	1.47%
Ca 227.546†	-2.3	0.0197	mg/L	0.01527	0.0197	mg/L	0.01527	77.69%
Cd 228.802†	5.5	0.00019	mg/L	0.000157	0.00019	mg/L	0.000157	83.74%
Co 228.616†	-4.8	-0.00029	mg/L	0.000199	-0.00029	mg/L	0.000199	67.92%
Cr 267.716†	52.8	0.00031	mg/L	0.000088	0.00031	mg/L	0.000088	28.44%
Cu 327.393†	-70.3	-0.00029	mg/L	0.001101	-0.00029	mg/L	0.001101	383.45%
Fe 239.562†	2.4	0.00806	mg/L	0.002996	0.00806	mg/L	0.002996	37.18%
Mg 279.077†	3.8	0.0214	mg/L	0.00687	0.0214	mg/L	0.00687	32.06%
Mn 257.610†	91.7	0.00135	mg/L	0.000037	0.00135	mg/L	0.000037	2.71%
Mo 202.031†	-3.3	-0.00029	mg/L	0.000379	-0.00029	mg/L	0.000379	132.11%
Ni 231.604†	12.1	0.00051	mg/L	0.000151	0.00051	mg/L	0.000151	29.28%
Pb 220.353†	15.6	0.00079	mg/L	0.001045	0.00079	mg/L	0.001045	131.84%
Sb 206.836†	5.6	0.00479	mg/L	0.000976	0.00479	mg/L	0.000976	20.36%
Se 196.026†	2.3	0.00274	mg/L	0.001598	0.00274	mg/L	0.001598	58.32%
Si 251.611†	2050.6	0.0577	mg/L	0.00051	0.0577	mg/L	0.00051	0.89%
Sn 189.927†	10.6	0.00080	mg/L	0.000089	0.00080	mg/L	0.000089	11.16%
Ti 334.940†	1192.6	0.00167	mg/L	0.000281	0.00167	mg/L	0.000281	16.81%
Tl 190.801†	-11.1	-0.00477	mg/L	0.001914	-0.00477	mg/L	0.001914	40.14%
V 290.880†	282.2	0.00230	mg/L	0.000458	0.00230	mg/L	0.000458	19.92%
Zn 206.200†	173.4	0.00546	mg/L	0.000110	0.00546	mg/L	0.000110	2.02%
K 766.490†	606.7	0.0642	mg/L	0.02259	0.0642	mg/L	0.02259	35.21%
Na 589.592†	1939694.0	142	mg/L	1.3	142	mg/L	1.3	0.89%
Sr 407.771†	425.9	0.00060	mg/L	0.000026	0.00060	mg/L	0.000026	4.37%
Li 670.784†	47.5	0.00117	mg/L	0.000936	0.00117	mg/L	0.000936	80.16%

Sequence No.: 16 **Autosampler Location: 41**
Sample ID: FBLK WG356907-02 **Date Collected: 2/21/2011 1:34:06 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK WG356907-02

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: FBLK WG356907-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5271273.8						39471.25	0.75%
YRADIAL	312057.0						2631.89	0.84%
Ga 417.206	1239073.3						18178.57	1.47%
GaRADIAL	60267.0						1316.92	2.19%

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Ag 328.068†	-191.9	-0.00161 mg/L	0.000104	-0.00161 mg/L	0.000104	6.48%
Al 396.153†	119.9	0.0275 mg/L	0.00686	0.0275 mg/L	0.00686	24.95%
As 188.979†	0.5	0.00006 mg/L	0.001866	0.00006 mg/L	0.001866	>999.9%
Ba 233.527†	22.6	0.00008 mg/L	0.000091	0.00008 mg/L	0.000091	113.79%
Be 234.861†	-82.4	-0.00015 mg/L	0.000007	-0.00015 mg/L	0.000007	4.76%
B 249.677†	319.1	0.00744 mg/L	0.000394	0.00744 mg/L	0.000394	5.29%
Ca 227.546†	22.1	0.253 mg/L	0.0661	0.253 mg/L	0.0661	26.11%
Cd 228.802†	5.9	0.00022 mg/L	0.000117	0.00022 mg/L	0.000117	53.16%
Co 228.616†	-1.9	-0.00014 mg/L	0.000329	-0.00014 mg/L	0.000329	230.10%
Cr 267.716†	80.6	0.00055 mg/L	0.000116	0.00055 mg/L	0.000116	20.89%
Cu 327.393†	150.4	0.00125 mg/L	0.000202	0.00125 mg/L	0.000202	16.11%
Fe 239.562†	11.2	0.0274 mg/L	0.00278	0.0274 mg/L	0.00278	10.16%
Mg 279.077†	27.1	0.0494 mg/L	0.00434	0.0494 mg/L	0.00434	8.77%
Mn 257.610†	887.5	0.00188 mg/L	0.000029	0.00188 mg/L	0.000029	1.54%
Mo 202.031†	-7.1	-0.00058 mg/L	0.000277	-0.00058 mg/L	0.000277	47.79%
Ni 231.604†	54.6	0.00179 mg/L	0.000244	0.00179 mg/L	0.000244	13.67%
Pb 220.353†	7.4	-0.00068 mg/L	0.000618	-0.00068 mg/L	0.000618	91.03%
Sb 206.836†	1.6	0.00225 mg/L	0.000929	0.00225 mg/L	0.000929	41.31%
Se 196.026†	4.2	0.00418 mg/L	0.002532	0.00418 mg/L	0.002532	60.58%
Si 251.611†	3993.3	0.115 mg/L	0.0080	0.115 mg/L	0.0080	6.92%
Sn 189.927†	11.6	0.00098 mg/L	0.000304	0.00098 mg/L	0.000304	31.13%
Ti 334.940†	1423.1	0.00200 mg/L	0.000003	0.00200 mg/L	0.000003	0.17%
Tl 190.801†	-9.7	-0.00394 mg/L	0.002263	-0.00394 mg/L	0.002263	57.39%
V 290.880†	-51.1	0.00003 mg/L	0.001573	0.00003 mg/L	0.001573	>999.9%
Zn 206.200†	142.5	0.00448 mg/L	0.000023	0.00448 mg/L	0.000023	0.51%
K 766.490†	133.5	0.0289 mg/L	0.03570	0.0289 mg/L	0.03570	123.64%
Na 589.592†	981.8	0.0556 mg/L	0.00198	0.0556 mg/L	0.00198	3.57%
Sr 407.771†	572.7	0.00073 mg/L	0.000099	0.00073 mg/L	0.000099	13.52%
Li 670.784†	-24.7	0.00030 mg/L	0.000628	0.00030 mg/L	0.000628	207.86%

Sequence No.: 17 **Autosampler Location: 45**
Sample ID: L1102038701 **Date Collected: 2/21/2011 1:40:50 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102038701

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102038701

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5026234.7						57500.33	1.14%
YRADIAL	315516.3						3902.88	1.24%
Ga 417.206	1190520.7						20933.26	1.76%
GaRADIAL	60360.8						917.31	1.52%
Ag 328.068†	247.0	0.00051	mg/L	0.000274	0.00051	mg/L	0.000274	53.50%
Al 396.153†	395.8	0.0812	mg/L	0.01085	0.0812	mg/L	0.01085	13.36%
As 188.979†	8.3	0.00601	mg/L	0.003576	0.00601	mg/L	0.003576	59.45%
Ba 233.527†	5688.8	0.0992	mg/L	0.00171	0.0992	mg/L	0.00171	1.73%
Be 234.861†	-58.9	-0.00014	mg/L	0.000012	-0.00014	mg/L	0.000012	8.47%
B 249.677†	1958.1	0.0388	mg/L	0.00102	0.0388	mg/L	0.00102	2.62%
Ca 227.546†	7764.8	74.1	mg/L	1.85	74.1	mg/L	1.85	2.50%
Cd 228.802†	399.2	0.0231	mg/L	0.00028	0.0231	mg/L	0.00028	1.21%
Co 228.616†	-3.3	-0.00025	mg/L	0.000260	-0.00025	mg/L	0.000260	102.46%
Cr 267.716†	66.7	0.00046	mg/L	0.000075	0.00046	mg/L	0.000075	16.07%
Cu 327.393†	486.6	0.00373	mg/L	0.000770	0.00373	mg/L	0.000770	20.61%
Fe 239.562†	112.0	0.249	mg/L	0.0040	0.249	mg/L	0.0040	1.61%
Mg 279.077†	1215.0	1.48	mg/L	0.020	1.48	mg/L	0.020	1.36%
Mn 257.610†	37894.9	0.0881	mg/L	0.00287	0.0881	mg/L	0.00287	3.26%
Mo 202.031†	-0.8	-0.00007	mg/L	0.000185	-0.00007	mg/L	0.000185	267.33%
Ni 231.604†	52.2	0.00168	mg/L	0.000090	0.00168	mg/L	0.000090	5.39%
Pb 220.353†	18.6	0.00489	mg/L	0.002341	0.00489	mg/L	0.002341	47.91%
Sb 206.836†	14.9	0.0108	mg/L	0.00101	0.0108	mg/L	0.00101	9.39%
Se 196.026†	-26.8	0.00059	mg/L	0.003679	0.00059	mg/L	0.003679	625.30%
Si 251.611†	14578.0	0.430	mg/L	0.0152	0.430	mg/L	0.0152	3.53%
Sn 189.927†	11.8	0.00100	mg/L	0.000802	0.00100	mg/L	0.000802	80.17%
Ti 334.940†	1515.5	0.00286	mg/L	0.000267	0.00286	mg/L	0.000267	9.33%
Tl 190.801†	91.1	0.0505	mg/L	0.00260	0.0505	mg/L	0.00260	5.14%

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V 290.880†	9.7	0.00046 mg/L	0.000667	0.00046 mg/L	0.000667	145.82%	
Zn 206.200†	57706.7	1.82 mg/L	0.047	1.82 mg/L	0.047	2.57%	
K 766.490†	2114.5	0.634 mg/L	0.0452	0.634 mg/L	0.0452	7.13%	
Na 589.592†	1880214.5	138 mg/L	1.3	138 mg/L	1.3	0.93%	
Sr 407.771†	273027.5	0.254 mg/L	0.0215	0.254 mg/L	0.0215	8.47%	
Li 670.784†	110.5	0.00192 mg/L	0.000630	0.00192 mg/L	0.000630	32.77%	

Sequence No.: 18 **Autosampler Location: 46**
Sample ID: L1102038701PS WG356971-01 **Date Collected: 2/21/2011 1:47:40 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102038701PS WG356971-01

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102038701PS WG356971-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4893156.1						33937.51	0.69%
YRADIAL	302455.9						7265.22	2.40%
Ga 417.206	1182816.2						6222.46	0.53%
GaRADIAL	59170.0						219.26	0.37%
Ag 328.068†	39624.5	0.198	mg/L	0.0021	0.198	mg/L	0.0021	1.09%
Al 396.153†	25809.0	5.02	mg/L	0.017	5.02	mg/L	0.017	0.35%
As 188.979†	213.5	0.197	mg/L	0.0014	0.197	mg/L	0.0014	0.69%
Ba 233.527†	33168.2	0.581	mg/L	0.0111	0.581	mg/L	0.0111	1.90%
Be 234.861†	13780.0	0.0246	mg/L	0.00036	0.0246	mg/L	0.00036	1.45%
B 249.677†	53329.5	1.01	mg/L	0.016	1.01	mg/L	0.016	1.62%
Ca 227.546†	7575.1	72.5	mg/L	0.07	72.5	mg/L	0.07	0.09%
Cd 228.802†	779.8	0.0451	mg/L	0.00028	0.0451	mg/L	0.00028	0.62%
Co 228.616†	1842.6	0.0971	mg/L	0.00115	0.0971	mg/L	0.00115	1.19%
Cr 267.716†	28011.6	0.250	mg/L	0.0048	0.250	mg/L	0.0048	1.91%
Cu 327.393†	36476.5	0.256	mg/L	0.0041	0.256	mg/L	0.0041	1.60%
Fe 239.562†	1001.0	2.20	mg/L	0.037	2.20	mg/L	0.037	1.68%
Mg 279.077†	5196.2	6.27	mg/L	0.106	6.27	mg/L	0.106	1.69%
Mn 257.610†	143619.0	0.332	mg/L	0.0058	0.332	mg/L	0.0058	1.76%
Mo 202.031†	6720.0	0.512	mg/L	0.0034	0.512	mg/L	0.0034	0.67%
Ni 231.604†	8301.0	0.248	mg/L	0.0021	0.248	mg/L	0.0021	0.85%
Pb 220.353†	1425.9	0.262	mg/L	0.0017	0.262	mg/L	0.0017	0.63%
Sb 206.836†	929.1	0.595	mg/L	0.0018	0.595	mg/L	0.0018	0.30%
Se 196.026†	243.6	0.193	mg/L	0.0036	0.193	mg/L	0.0036	1.85%
Si 251.611†	99481.0	2.95	mg/L	0.030	2.95	mg/L	0.030	1.01%
Sn 189.927†	5.4	-0.00013	mg/L	0.001723	-0.00013	mg/L	0.001723	>999.9%
Ti 334.940†	361072.6	0.503	mg/L	0.0019	0.503	mg/L	0.0019	0.38%
Tl 190.801†	483.4	0.294	mg/L	0.0035	0.294	mg/L	0.0035	1.18%
V 290.880†	74654.4	0.509	mg/L	0.0088	0.509	mg/L	0.0088	1.74%
Zn 206.200†	68164.7	2.15	mg/L	0.035	2.15	mg/L	0.035	1.61%
K 766.490†	68109.2	25.4	mg/L	0.21	25.4	mg/L	0.21	0.84%
Na 589.592†	2051127.1	151	mg/L	2.1	151	mg/L	2.1	1.40%
Sr 407.771†	781560.7	0.726	mg/L	0.0604	0.726	mg/L	0.0604	8.32%
Li 670.784†	41066.9	0.493	mg/L	0.0015	0.493	mg/L	0.0015	0.30%

Sequence No.: 19 **Autosampler Location: 47**
Sample ID: L1102038701DL WG356971-02 **Date Collected: 2/21/2011 1:54:23 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102038701DL WG356971-02

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102038701DL WG356971-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Approved: February 22, 2011

Pierre Morris

Y 371.029	5097763.7					20392.27	0.40%
YRADIAL	315012.8					9908.98	3.15%
Ga 417.206	1239901.4					8921.33	0.72%
GaRADIAL	60241.5					736.35	1.22%
Ag 328.068†	-6.8	-0.00070	mg/L	0.000304	-0.00070 mg/L	0.000304	43.59%
Al 396.153†	66.5	0.0171	mg/L	0.00422	0.0171 mg/L	0.00422	24.72%
As 188.979†	5.1	0.00419	mg/L	0.002897	0.00419 mg/L	0.002897	69.09%
Ba 233.527†	1101.7	0.0190	mg/L	0.00107	0.0190 mg/L	0.00107	5.64%
Be 234.861†	-0.7	-0.00001	mg/L	0.000006	-0.00001 mg/L	0.000006	72.78%
B 249.677†	738.3	0.0154	mg/L	0.00083	0.0154 mg/L	0.00083	5.36%
Ca 227.546†	1414.7	13.5	mg/L	0.83	13.5 mg/L	0.83	6.11%
Cd 228.802†	75.7	0.00425	mg/L	0.000296	0.00425 mg/L	0.000296	6.95%
Co 228.616†	-3.1	-0.00021	mg/L	0.000212	-0.00021 mg/L	0.000212	103.12%
Cr 267.716†	-2.5	-0.00018	mg/L	0.000113	-0.00018 mg/L	0.000113	62.69%
Cu 327.393†	30.3	0.00044	mg/L	0.000694	0.00044 mg/L	0.000694	157.69%
Fe 239.562†	26.3	0.0606	mg/L	0.00462	0.0606 mg/L	0.00462	7.62%
Mg 279.077†	282.4	0.357	mg/L	0.0117	0.357 mg/L	0.0117	3.28%
Mn 257.610†	7579.0	0.0175	mg/L	0.00152	0.0175 mg/L	0.00152	8.69%
Mo 202.031†	-2.1	-0.00019	mg/L	0.000237	-0.00019 mg/L	0.000237	125.57%
Ni 231.604†	12.4	0.00051	mg/L	0.000242	0.00051 mg/L	0.000242	47.41%
Pb 220.353†	10.1	0.00045	mg/L	0.001495	0.00045 mg/L	0.001495	332.69%
Sb 206.836†	6.9	0.00568	mg/L	0.001626	0.00568 mg/L	0.001626	28.62%
Se 196.026†	-6.4	-0.00007	mg/L	0.004336	-0.00007 mg/L	0.004336	>999.9%
Si 251.611†	3058.6	0.0876	mg/L	0.00703	0.0876 mg/L	0.00703	8.03%
Sn 189.927†	7.1	0.00016	mg/L	0.000822	0.00016 mg/L	0.000822	501.76%
Ti 334.940†	124.8	0.00032	mg/L	0.000062	0.00032 mg/L	0.000062	19.08%
Tl 190.801†	28.3	0.0178	mg/L	0.00217	0.0178 mg/L	0.00217	12.16%
V 290.880†	103.5	0.00109	mg/L	0.000350	0.00109 mg/L	0.000350	32.20%
Zn 206.200†	11542.2	0.364	mg/L	0.0296	0.364 mg/L	0.0296	8.12%
K 766.490†	599.3	0.171	mg/L	0.0192	0.171 mg/L	0.0192	11.22%
Na 589.592†	454334.5	33.0	mg/L	0.29	33.0 mg/L	0.29	0.87%
Sr 407.771†	65979.2	0.0615	mg/L	0.00429	0.0615 mg/L	0.00429	6.98%
Li 670.784†	179.7	0.00275	mg/L	0.000532	0.00275 mg/L	0.000532	19.33%

Sequence No.: 20 **Autosampler Location: 48**
Sample ID: L1102043801 WG356954-01 **Date Collected: 2/21/2011 2:01:07 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043801 WG356954-01

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102043801 WG356954-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5073911.3						25525.99	0.50%
YRADIAL	315167.7						4280.29	1.36%
Ga 417.206	1221064.2						7767.60	0.64%
GaRADIAL	60510.1						240.58	0.40%
Ag 328.068†	-103.1	-0.00131	mg/L	0.000854	-0.00131	mg/L	0.000854	65.24%
Al 396.153†	657.8	0.132	mg/L	0.0024	0.132	mg/L	0.0024	1.79%
As 188.979†	2.4	0.00185	mg/L	0.004897	0.00185	mg/L	0.004897	265.12%
Ba 233.527†	2368.8	0.0411	mg/L	0.00016	0.0411	mg/L	0.00016	0.38%
Be 234.861†	111.4	-0.00022	mg/L	0.000105	-0.00022	mg/L	0.000105	47.30%
B 249.677†	60008.9	1.14	mg/L	0.006	1.14	mg/L	0.006	0.48%
Ca 227.546†	1232.9	11.8	mg/L	0.02	11.8	mg/L	0.02	0.20%
Cd 228.802†	19.0	0.00098	mg/L	0.000321	0.00098	mg/L	0.000321	32.71%
Co 228.616†	21.2	0.00103	mg/L	0.000457	0.00103	mg/L	0.000457	44.54%
Cr 267.716†	174.2	0.00857	mg/L	0.000173	0.00857	mg/L	0.000173	2.02%
Cu 327.393†	-9.9	0.0114	mg/L	0.00080	0.0114	mg/L	0.00080	6.98%
Fe 239.562†	1027.7	2.26	mg/L	0.018	2.26	mg/L	0.018	0.79%
Mg 279.077†	53196.2	64.1	mg/L	0.17	64.1	mg/L	0.17	0.27%
Mn 257.610†	28100.3	0.0737	mg/L	0.00049	0.0737	mg/L	0.00049	0.67%
Mo 202.031†	239.6	0.0183	mg/L	0.00082	0.0183	mg/L	0.00082	4.47%
Ni 231.604†	52.6	0.00172	mg/L	0.000414	0.00172	mg/L	0.000414	24.11%
Pb 220.353†	18.8	0.00193	mg/L	0.000850	0.00193	mg/L	0.000850	44.06%
Sb 206.836†	64.1	0.0422	mg/L	0.00241	0.0422	mg/L	0.00241	5.70%
Se 196.026†	-13.8	-0.00501	mg/L	0.003083	-0.00501	mg/L	0.003083	61.56%

Approved: February 22, 2011

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Si 251.611†	19503.6	0.576	mg/L	0.0064	0.576	mg/L	0.0064 1.12%
Sn 189.927†	9.1	0.00052	mg/L	0.000839	0.00052	mg/L	0.000839 161.18%
Ti 334.940†	992.3	0.00151	mg/L	0.000195	0.00151	mg/L	0.000195 12.90%
Tl 190.801†	23.7	0.0152	mg/L	0.00435	0.0152	mg/L	0.00435 28.50%
V 290.880†	-1516.5	-0.00980	mg/L	0.000351	-0.00980	mg/L	0.000351 3.58%
Zn 206.200†	5720363.5	180	mg/L	2.4	180	mg/L	2.4 1.31%
K 766.490†	23502.9	8.79	mg/L	0.023	8.79	mg/L	0.023 0.26%
Na 589.592†	120820.4	8.76	mg/L	0.082	8.76	mg/L	0.082 0.94%
Sr 407.771†	40736.5	0.0378	mg/L	0.00316	0.0378	mg/L	0.00316 8.37%
Li 670.784†	299.9	0.00419	mg/L	0.000910	0.00419	mg/L	0.000910 21.69%

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Sequence No.: 21 **Autosampler Location: 49**
Sample ID: L1102043801S WG356954-04 **Date Collected: 2/21/2011 2:07:54 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043801S WG356954-04

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102043801S WG356954-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4955338.7						36993.49	0.75%
YRADIAL	307671.8						4949.46	1.61%
Ga 417.206	1207662.9						8590.14	0.71%
GaRADIAL	58757.8						1787.45	3.04%
Ag 328.068†	39015.5	0.195	mg/L	0.0024	0.195	mg/L	0.0024	1.25%
Al 396.153†	27163.5	5.29	mg/L	0.044	5.29	mg/L	0.044	0.84%
As 188.979†	207.0	0.193	mg/L	0.0050	0.193	mg/L	0.0050	2.60%
Ba 233.527†	30818.2	0.540	mg/L	0.0078	0.540	mg/L	0.0078	1.44%
Be 234.861†	13634.9	0.0239	mg/L	0.00027	0.0239	mg/L	0.00027	1.11%
B 249.677†	111588.1	2.12	mg/L	0.028	2.12	mg/L	0.028	1.30%
Ca 227.546†	1763.3	17.0	mg/L	0.22	17.0	mg/L	0.22	1.27%
Cd 228.802†	431.6	0.0248	mg/L	0.00043	0.0248	mg/L	0.00043	1.73%
Co 228.616†	1832.0	0.0965	mg/L	0.00090	0.0965	mg/L	0.00090	0.94%
Cr 267.716†	28162.5	0.259	mg/L	0.0039	0.259	mg/L	0.0039	1.51%
Cu 327.393†	35488.5	0.260	mg/L	0.0036	0.260	mg/L	0.0036	1.38%
Fe 239.562†	1988.5	4.37	mg/L	0.174	4.37	mg/L	0.174	3.98%
Mg 279.077†	57581.1	69.3	mg/L	0.91	69.3	mg/L	0.91	1.32%
Mn 257.610†	141042.8	0.334	mg/L	0.0042	0.334	mg/L	0.0042	1.26%
Mo 202.031†	6924.5	0.528	mg/L	0.0056	0.528	mg/L	0.0056	1.06%
Ni 231.604†	8197.9	0.245	mg/L	0.0023	0.245	mg/L	0.0023	0.95%
Pb 220.353†	1422.2	0.258	mg/L	0.0026	0.258	mg/L	0.0026	1.01%
Sb 206.836†	969.9	0.622	mg/L	0.0063	0.622	mg/L	0.0063	1.01%
Se 196.026†	255.2	0.188	mg/L	0.0051	0.188	mg/L	0.0051	2.70%
Si 251.611†	107655.5	3.19	mg/L	0.030	3.19	mg/L	0.030	0.93%
Sn 189.927†	-3.6	-0.00175	mg/L	0.000798	-0.00175	mg/L	0.000798	45.68%
Ti 334.940†	370090.8	0.515	mg/L	0.0064	0.515	mg/L	0.0064	1.24%
Tl 190.801†	415.1	0.258	mg/L	0.0022	0.258	mg/L	0.0022	0.85%
V 290.880†	72911.5	0.497	mg/L	0.0058	0.497	mg/L	0.0058	1.16%
Zn 206.200†	5740826.4	181	mg/L	1.2	181	mg/L	1.2	0.67%
K 766.490†	90644.5	33.9	mg/L	0.16	33.9	mg/L	0.16	0.46%
Na 589.592†	466494.4	33.9	mg/L	0.43	33.9	mg/L	0.43	1.28%
Sr 407.771†	570944.5	0.530	mg/L	0.0389	0.530	mg/L	0.0389	7.34%
Li 670.784†	43054.3	0.517	mg/L	0.0026	0.517	mg/L	0.0026	0.50%

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Sequence No.: 22 **Autosampler Location: 50**
Sample ID: L1102043801SD WG356954-05 **Date Collected: 2/21/2011 2:14:35 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043801SD WG356954-05

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

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Pierre Morris

Mean Data: L1102043801SD WG356954-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4899265.8						51939.19	1.06%
YRADIAL	305824.5						9750.44	3.19%
Ga 417.206	1181400.4						3220.90	0.27%
GaRADIAL	58490.3						924.46	1.58%
Ag 328.068†	39864.8	0.199	mg/L	0.0007	0.199	mg/L	0.0007	0.34%
Al 396.153†	26991.2	5.25	mg/L	0.054	5.25	mg/L	0.054	1.02%
As 188.979†	207.0	0.193	mg/L	0.0026	0.193	mg/L	0.0026	1.33%
Ba 233.527†	31187.9	0.547	mg/L	0.0087	0.547	mg/L	0.0087	1.59%
Be 234.861†	13895.5	0.0244	mg/L	0.00006	0.0244	mg/L	0.00006	0.25%
B 249.677†	114787.2	2.18	mg/L	0.016	2.18	mg/L	0.016	0.74%
Ca 227.546†	1795.8	17.3	mg/L	0.13	17.3	mg/L	0.13	0.77%
Cd 228.802†	439.7	0.0253	mg/L	0.00006	0.0253	mg/L	0.00006	0.24%
Co 228.616†	1846.9	0.0973	mg/L	0.00097	0.0973	mg/L	0.00097	1.00%
Cr 267.716†	28540.3	0.262	mg/L	0.0030	0.262	mg/L	0.0030	1.13%
Cu 327.393†	36248.2	0.265	mg/L	0.0024	0.265	mg/L	0.0024	0.90%
Fe 239.562†	1936.7	4.25	mg/L	0.084	4.25	mg/L	0.084	1.98%
Mg 279.077†	56842.3	68.4	mg/L	0.30	68.4	mg/L	0.30	0.44%
Mn 257.610†	140269.3	0.333	mg/L	0.0056	0.333	mg/L	0.0056	1.67%
Mo 202.031†	6978.5	0.532	mg/L	0.0081	0.532	mg/L	0.0081	1.52%
Ni 231.604†	8292.0	0.248	mg/L	0.0034	0.248	mg/L	0.0034	1.39%
Pb 220.353†	1427.3	0.259	mg/L	0.0026	0.259	mg/L	0.0026	1.00%
Sb 206.836†	982.2	0.629	mg/L	0.0005	0.629	mg/L	0.0005	0.08%
Se 196.026†	256.9	0.190	mg/L	0.0028	0.190	mg/L	0.0028	1.48%
Si 251.611†	111995.6	3.32	mg/L	0.045	3.32	mg/L	0.045	1.34%
Sn 189.927†	3.6	-0.00046	mg/L	0.000872	-0.00046	mg/L	0.000872	191.46%
Ti 334.940†	375531.9	0.522	mg/L	0.0098	0.522	mg/L	0.0098	1.88%
Tl 190.801†	422.7	0.262	mg/L	0.0037	0.262	mg/L	0.0037	1.39%
V 290.880†	73991.5	0.505	mg/L	0.0082	0.505	mg/L	0.0082	1.63%
Zn 206.200†	5811521.2	183	mg/L	0.8	183	mg/L	0.8	0.41%
K 766.490†	90361.6	33.8	mg/L	0.18	33.8	mg/L	0.18	0.53%
Na 589.592†	465508.9	33.9	mg/L	0.21	33.9	mg/L	0.21	0.63%
Sr 407.771†	561212.4	0.521	mg/L	0.0498	0.521	mg/L	0.0498	9.56%
Li 670.784†	43012.3	0.516	mg/L	0.0051	0.516	mg/L	0.0051	1.00%

Sequence No.: 23 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 2:21:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4935531.6						31129.54	0.63%
YRADIAL	302216.9						2676.36	0.89%
Ga 417.206	1182744.6						7687.46	0.65%
GaRADIAL	58283.8						894.66	1.54%
Ag 328.068†	79496.0	0.397	mg/L	0.0068	0.397	mg/L	0.0068	1.71%
QC value within limits for Ag 328.068 Recovery = 99.37%								
Al 396.153†	51970.0	10.1	mg/L	0.04	10.1	mg/L	0.04	0.35%
QC value within limits for Al 396.153 Recovery = 101.13%								
As 188.979†	421.8	0.393	mg/L	0.0064	0.393	mg/L	0.0064	1.64%
QC value within limits for As 188.979 Recovery = 98.33%								
Ba 233.527†	57205.6	1.00	mg/L	0.016	1.00	mg/L	0.016	1.58%
QC value within limits for Ba 233.527 Recovery = 100.30%								
Be 234.861†	28159.8	0.0503	mg/L	0.00081	0.0503	mg/L	0.00081	1.61%
QC value within limits for Be 234.861 Recovery = 100.56%								
B 249.677†	28158.1	0.539	mg/L	0.0098	0.539	mg/L	0.0098	1.81%
QC value within limits for B 249.677 Recovery = 107.82%								
Ca 227.546†	1028.7	10.2	mg/L	0.09	10.2	mg/L	0.09	0.92%
QC value within limits for Ca 227.546 Recovery = 101.85%								
Cd 228.802†	869.6	0.0502	mg/L	0.00033	0.0502	mg/L	0.00033	0.66%

Approved: February 22, 2011

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QC value within limits for Cd 228.802 Recovery = 100.30%
Co 228.616† 3776.4 0.199 mg/L 0.0014 0.199 mg/L 0.0014 0.68%
QC value within limits for Co 228.616 Recovery = 99.61%
Cr 267.716† 55509.4 0.496 mg/L 0.0077 0.496 mg/L 0.0077 1.54%
QC value within limits for Cr 267.716 Recovery = 99.19%
Cu 327.393† 72018.5 0.504 mg/L 0.0109 0.504 mg/L 0.0109 2.15%
QC value within limits for Cu 327.393 Recovery = 100.81%
Fe 239.562† 1820.5 4.00 mg/L 0.046 4.00 mg/L 0.046 1.14%
QC value within limits for Fe 239.562 Recovery = 99.96%
Mg 279.077† 8240.4 9.94 mg/L 0.105 9.94 mg/L 0.105 1.06%
QC value within limits for Mg 279.077 Recovery = 99.40%
Mn 257.610† 218959.0 0.505 mg/L 0.0004 0.505 mg/L 0.0004 0.09%
QC value within limits for Mn 257.610 Recovery = 101.06%
Mo 202.031† 13061.2 0.995 mg/L 0.0127 0.995 mg/L 0.0127 1.27%
QC value within limits for Mo 202.031 Recovery = 99.50%
Ni 231.604† 16615.2 0.497 mg/L 0.0074 0.497 mg/L 0.0074 1.48%
QC value within limits for Ni 231.604 Recovery = 99.42%
Pb 220.353† 2884.2 0.524 mg/L 0.0049 0.524 mg/L 0.0049 0.94%
QC value within limits for Pb 220.353 Recovery = 104.89%
Sb 206.836† 1864.1 1.19 mg/L 0.005 1.19 mg/L 0.005 0.38%
QC value within limits for Sb 206.836 Recovery = 99.44%
Se 196.026† 550.5 0.397 mg/L 0.0053 0.397 mg/L 0.0053 1.33%
QC value within limits for Se 196.026 Recovery = 99.18%
Si 251.611† 168438.0 4.99 mg/L 0.011 4.99 mg/L 0.011 0.21%
QC value within limits for Si 251.611 Recovery = 99.77%
Sn 189.927† 5700.2 1.02 mg/L 0.006 1.02 mg/L 0.006 0.55%
QC value within limits for Sn 189.927 Recovery = 101.83%
Ti 334.940† 721267.7 1.00 mg/L 0.005 1.00 mg/L 0.005 0.48%
QC value within limits for Ti 334.940 Recovery = 100.27%
Tl 190.801† 830.0 0.515 mg/L 0.0029 0.515 mg/L 0.0029 0.57%
QC value within limits for Tl 190.801 Recovery = 103.04%
V 290.880† 146849.7 1.00 mg/L 0.001 1.00 mg/L 0.001 0.12%
QC value within limits for V 290.880 Recovery = 100.07%
Zn 206.200† 31903.8 1.01 mg/L 0.013 1.01 mg/L 0.013 1.31%
QC value within limits for Zn 206.200 Recovery = 100.78%
K 766.490† 133351.0 49.9 mg/L 0.57 49.9 mg/L 0.57 1.14%
QC value within limits for K 766.490 Recovery = 99.80%
Na 589.592† 684010.5 49.8 mg/L 0.35 49.8 mg/L 0.35 0.71%
QC value within limits for Na 589.592 Recovery = 99.64%
Sr 407.771† 1053025.7 0.977 mg/L 0.0626 0.977 mg/L 0.0626 6.40%
QC value within limits for Sr 407.771 Recovery = 97.75%
Li 670.784† 83972.6 1.01 mg/L 0.005 1.01 mg/L 0.005 0.53%
QC value within limits for Li 670.784 Recovery = 100.75%
All analyte(s) passed QC.

Sequence No.: 24 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 2:27:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5207895.1						59454.21	1.14%
YRADIAL	322776.7						5567.52	1.72%
Ga 417.206	1237910.4						14734.85	1.19%
GaRADIAL	61536.4						2016.11	3.28%
Ag 328.068†	15.3	-0.00057	mg/L	0.000877	-0.00057	mg/L	0.000877	153.21%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-52.8	-0.00616	mg/L	0.010494	-0.00616	mg/L	0.010494	170.27%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.1	-0.00138	mg/L	0.000490	-0.00138	mg/L	0.000490	35.39%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	0.8	-0.00030	mg/L	0.000034	-0.00030	mg/L	0.000034	11.17%
QC value within limits for Ba 233.527 Recovery = Not calculated								

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Be 234.861†	-2.6	0.00000 mg/L	0.000016	0.00000 mg/L	0.000016	771.38%	
QC value within limits for Be 234.861 Recovery = Not calculated							
B 249.677†	1787.4	0.0351 mg/L	0.00149	0.0351 mg/L	0.00149	4.25%	
QC value within limits for B 249.677 Recovery = Not calculated							
Ca 227.546†	-0.8	0.0333 mg/L	0.01348	0.0333 mg/L	0.01348	40.44%	
QC value within limits for Ca 227.546 Recovery = Not calculated							
Cd 228.802†	3.7	0.00010 mg/L	0.000131	0.00010 mg/L	0.000131	129.52%	
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	0.6	0.00000 mg/L	0.000050	0.00000 mg/L	0.000050	>999.9%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-6.4	-0.00022 mg/L	0.000061	-0.00022 mg/L	0.000061	27.40%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	-0.9	0.00019 mg/L	0.000456	0.00019 mg/L	0.000456	236.32%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 239.562†	-0.7	0.00124 mg/L	0.004854	0.00124 mg/L	0.004854	390.86%	
QC value within limits for Fe 239.562 Recovery = Not calculated							
Mg 279.077†	-10.7	0.00396 mg/L	0.002471	0.00396 mg/L	0.002471	62.40%	
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	16.0	-0.00014 mg/L	0.000016	-0.00014 mg/L	0.000016	11.32%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	0.9	0.00003 mg/L	0.000246	0.00003 mg/L	0.000246	779.71%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	5.1	0.00030 mg/L	0.000156	0.00030 mg/L	0.000156	51.18%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	0.4	-0.00195 mg/L	0.000440	-0.00195 mg/L	0.000440	22.56%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	0.2	0.00141 mg/L	0.001372	0.00141 mg/L	0.001372	97.54%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.3	0.00137 mg/L	0.001964	0.00137 mg/L	0.001964	143.43%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	48.2	-0.00186 mg/L	0.000334	-0.00186 mg/L	0.000334	17.91%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	2.6	-0.00063 mg/L	0.000530	-0.00063 mg/L	0.000530	83.65%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-23.3	-0.00002 mg/L	0.000337	-0.00002 mg/L	0.000337	>999.9%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-0.6	0.00156 mg/L	0.001694	0.00156 mg/L	0.001694	108.46%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	-133.5	-0.00053 mg/L	0.001165	-0.00053 mg/L	0.001165	219.01%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	187.9	0.00591 mg/L	0.000360	0.00591 mg/L	0.000360	6.08%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	78.2	0.00819 mg/L	0.034147	0.00819 mg/L	0.034147	417.10%	
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	454.6	0.0173 mg/L	0.00533	0.0173 mg/L	0.00533	30.75%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	54.6	0.00025 mg/L	0.000102	0.00025 mg/L	0.000102	40.44%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	-130.8	-0.00097 mg/L	0.001365	-0.00097 mg/L	0.001365	140.67%	
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.
User canceled analysis.

Approved: February 22, 2011

Pierre Morris

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Analysis Begun

Start Time: 2/21/2011 2:36:40 PM **Plasma On Time: 2/21/2011 7:55:44 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\peicp2\Sample Information\MONDAY1.sif
Batch ID:
Results Data Set: 022111H2
Results Library: C:\pe\peicp2\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 42**
Sample ID: L1102035701 **Date Collected: 2/21/2011 2:36:41 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102035701

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102035701

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4971961.9						34224.45	0.69%
YRADIAL	309390.5						2237.08	0.72%
Ga 417.206	1172775.1						21182.88	1.81%
GaRADIAL	58561.6						1015.66	1.73%
Ag 328.068†	385.0	0.00126	mg/L	0.000564	0.00126	mg/L	0.000564	44.74%
Al 396.153†	-2.1	0.00373	mg/L	0.007960	0.00373	mg/L	0.007960	213.58%
As 188.979†	8.2	0.00582	mg/L	0.003520	0.00582	mg/L	0.003520	60.45%
Ba 233.527†	27878.8	0.487	mg/L	0.0043	0.487	mg/L	0.0043	0.88%
Be 234.861†	-103.8	-0.00018	mg/L	0.000045	-0.00018	mg/L	0.000045	24.87%
B 249.677†	2084.3	0.0407	mg/L	0.00094	0.0407	mg/L	0.00094	2.32%
Ca 227.546†	8178.8	78.1	mg/L	1.30	78.1	mg/L	1.30	1.66%
Cd 228.802†	21.5	0.00107	mg/L	0.000210	0.00107	mg/L	0.000210	19.52%
Co 228.616†	-12.3	-0.00086	mg/L	0.000162	-0.00086	mg/L	0.000162	18.78%
Cr 267.716†	91.8	0.00065	mg/L	0.000060	0.00065	mg/L	0.000060	9.29%
Cu 327.393†	-371.8	-0.00239	mg/L	0.000755	-0.00239	mg/L	0.000755	31.65%
Fe 239.562†	9.4	0.0234	mg/L	0.00470	0.0234	mg/L	0.00470	20.11%
Mg 279.077†	1195.2	1.46	mg/L	0.010	1.46	mg/L	0.010	0.72%
Mn 257.610†	8205.8	0.0201	mg/L	0.00013	0.0201	mg/L	0.00013	0.65%
Mo 202.031†	-5.9	-0.00049	mg/L	0.000295	-0.00049	mg/L	0.000295	60.75%
Ni 231.604†	252.2	0.00766	mg/L	0.000082	0.00766	mg/L	0.000082	1.07%
Pb 220.353†	40.5	0.00905	mg/L	0.000847	0.00905	mg/L	0.000847	9.36%
Sb 206.836†	18.9	0.0133	mg/L	0.00085	0.0133	mg/L	0.00085	6.41%
Se 196.026†	-36.9	-0.00573	mg/L	0.001967	-0.00573	mg/L	0.001967	34.34%
Si 251.611†	12910.3	0.380	mg/L	0.0062	0.380	mg/L	0.0062	1.62%
Sn 189.927†	9.7	0.00064	mg/L	0.001512	0.00064	mg/L	0.001512	235.85%
Ti 334.940†	1155.5	0.00240	mg/L	0.000127	0.00240	mg/L	0.000127	5.29%
Tl 190.801†	92.5	0.0509	mg/L	0.00391	0.0509	mg/L	0.00391	7.68%
V 290.880†	164.8	0.00148	mg/L	0.000818	0.00148	mg/L	0.000818	55.21%
Zn 206.200†	554.7	0.0175	mg/L	0.00001	0.0175	mg/L	0.00001	0.08%
K 766.490†	902.6	0.181	mg/L	0.0206	0.181	mg/L	0.0206	11.36%
Na 589.592†	1858922.5	136	mg/L	1.1	136	mg/L	1.1	0.82%
Sr 407.771†	69761.7	0.0650	mg/L	0.00579	0.0650	mg/L	0.00579	8.92%
Li 670.784†	155.8	0.00247	mg/L	0.001651	0.00247	mg/L	0.001651	66.94%

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Sequence No.: 2 **Autosampler Location: 43**
Sample ID: L1102035801 **Date Collected: 2/21/2011 2:43:25 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102035801

Analyte	Back Pressure	Flow

Approved: February 22, 2011

Pierre Morris

All	169.0 kPa	0.50 L/min

Mean Data: L1102035801

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5097886.0						62797.22	1.23%
YRADIAL	310540.0						3496.33	1.13%
Ga 417.206	1214448.2						12033.62	0.99%
GaRADIAL	59220.3						795.25	1.34%
Ag 328.068†	419.4	0.00142	mg/L	0.000474	0.00142	mg/L	0.000474	33.29%
Al 396.153†	192.6	0.0416	mg/L	0.00612	0.0416	mg/L	0.00612	14.70%
As 188.979†	9.3	0.00675	mg/L	0.002635	0.00675	mg/L	0.002635	39.03%
Ba 233.527†	17643.3	0.308	mg/L	0.0051	0.308	mg/L	0.0051	1.64%
Be 234.861†	-68.2	-0.00014	mg/L	0.000007	-0.00014	mg/L	0.000007	4.66%
B 249.677†	1916.2	0.0381	mg/L	0.00072	0.0381	mg/L	0.00072	1.90%
Ca 227.546†	8680.7	82.8	mg/L	0.56	82.8	mg/L	0.56	0.67%
Cd 228.802†	15.0	0.00069	mg/L	0.000086	0.00069	mg/L	0.000086	12.47%
Co 228.616†	-8.8	-0.00062	mg/L	0.000399	-0.00062	mg/L	0.000399	64.53%
Cr 267.716†	149.5	0.00116	mg/L	0.000044	0.00116	mg/L	0.000044	3.82%
Cu 327.393†	-134.5	-0.00071	mg/L	0.000714	-0.00071	mg/L	0.000714	100.67%
Fe 239.562†	61.2	0.137	mg/L	0.0090	0.137	mg/L	0.0090	6.56%
Mg 279.077†	874.6	1.07	mg/L	0.012	1.07	mg/L	0.012	1.11%
Mn 257.610†	11356.0	0.0272	mg/L	0.00027	0.0272	mg/L	0.00027	1.00%
Mo 202.031†	0.5	0.00001	mg/L	0.000342	0.00001	mg/L	0.000342	>999.9%
Ni 231.604†	133.4	0.00410	mg/L	0.000253	0.00410	mg/L	0.000253	6.17%
Pb 220.353†	-5.0	0.00105	mg/L	0.001043	0.00105	mg/L	0.001043	99.68%
Sb 206.836†	21.2	0.0148	mg/L	0.00292	0.0148	mg/L	0.00292	19.74%
Se 196.026†	-28.9	0.00122	mg/L	0.010980	0.00122	mg/L	0.010980	900.99%
Si 251.611†	7552.7	0.221	mg/L	0.0015	0.221	mg/L	0.0015	0.67%
Sn 189.927†	14.4	0.00148	mg/L	0.000931	0.00148	mg/L	0.000931	62.85%
Ti 334.940†	2923.0	0.00491	mg/L	0.000225	0.00491	mg/L	0.000225	4.58%
Tl 190.801†	100.9	0.0556	mg/L	0.00094	0.0556	mg/L	0.00094	1.69%
V 290.880†	239.4	0.00200	mg/L	0.000245	0.00200	mg/L	0.000245	12.21%
Zn 206.200†	2845.5	0.0897	mg/L	0.00105	0.0897	mg/L	0.00105	1.18%
K 766.490†	930.4	0.193	mg/L	0.0227	0.193	mg/L	0.0227	11.78%
Na 589.592†	1845273.5	135	mg/L	1.5	135	mg/L	1.5	1.11%
Sr 407.771†	91009.3	0.0847	mg/L	0.00753	0.0847	mg/L	0.00753	8.89%
Li 670.784†	174.6	0.00269	mg/L	0.001686	0.00269	mg/L	0.001686	62.64%

Sequence No.: 3 **Autosampler Location: 44**
Sample ID: L1102038202 **Date Collected: 2/21/2011 2:50:06 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102038202

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102038202

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5037362.6						23162.38	0.46%
YRADIAL	315491.0						2201.43	0.70%
Ga 417.206	1187631.2						12637.18	1.06%
GaRADIAL	59475.9						548.83	0.92%
Ag 328.068†	76.2	-0.00046	mg/L	0.000715	-0.00046	mg/L	0.000715	155.22%
Al 396.153†	10331.9	2.02	mg/L	0.006	2.02	mg/L	0.006	0.31%
As 188.979†	2.0	0.00182	mg/L	0.004194	0.00182	mg/L	0.004194	230.72%
Ba 233.527†	1513.7	0.0262	mg/L	0.00023	0.0262	mg/L	0.00023	0.87%
Be 234.861†	395.9	-0.00004	mg/L	0.000083	-0.00004	mg/L	0.000083	205.58%
B 249.677†	3551.2	0.0834	mg/L	0.00133	0.0834	mg/L	0.00133	1.59%
Ca 227.546†	500.2	4.84	mg/L	0.082	4.84	mg/L	0.082	1.70%
Cd 228.802†	10.7	0.00052	mg/L	0.000098	0.00052	mg/L	0.000098	18.91%
Co 228.616†	43.6	0.00213	mg/L	0.000325	0.00213	mg/L	0.000325	15.24%
Cr 267.716†	421.5	0.00354	mg/L	0.000040	0.00354	mg/L	0.000040	1.12%
Cu 327.393†	4195.4	0.0299	mg/L	0.00070	0.0299	mg/L	0.00070	2.32%
Fe 239.562†	1691.9	3.72	mg/L	0.015	3.72	mg/L	0.015	0.40%
Mg 279.077†	1033.5	1.26	mg/L	0.005	1.26	mg/L	0.005	0.36%

Approved: February 22, 2011

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Mn 257.610†	38923.6	0.0906	mg/L	0.00065	0.0906	mg/L	0.00065	0.71%
Mo 202.031†	-8.5	-0.00049	mg/L	0.000450	-0.00049	mg/L	0.000450	92.67%
Ni 231.604†	518.5	0.0157	mg/L	0.00033	0.0157	mg/L	0.00033	2.10%
Pb 220.353†	117.9	0.0194	mg/L	0.00066	0.0194	mg/L	0.00066	3.38%
Sb 206.836†	3.8	0.00368	mg/L	0.002074	0.00368	mg/L	0.002074	56.36%
Se 196.026†	-1.0	0.00271	mg/L	0.002058	0.00271	mg/L	0.002058	75.86%
Si 251.611†	37774.4	1.12	mg/L	0.018	1.12	mg/L	0.018	1.60%
Sn 189.927†	10.7	0.00081	mg/L	0.000572	0.00081	mg/L	0.000572	71.08%
Ti 334.940†	18030.5	0.0251	mg/L	0.00048	0.0251	mg/L	0.00048	1.92%
Tl 190.801†	0.4	0.00216	mg/L	0.003034	0.00216	mg/L	0.003034	140.58%
V 290.880†	676.6	0.00527	mg/L	0.000467	0.00527	mg/L	0.000467	8.87%
Zn 206.200†	16688.9	0.526	mg/L	0.0049	0.526	mg/L	0.0049	0.94%
K 766.490†	1489.5	0.397	mg/L	0.0185	0.397	mg/L	0.0185	4.65%
Na 589.592†	1919454.8	141	mg/L	1.1	141	mg/L	1.1	0.79%
Sr 407.771†	15100.8	0.0138	mg/L	0.00091	0.0138	mg/L	0.00091	6.60%
Li 670.784†	576.5	0.00751	mg/L	0.000928	0.00751	mg/L	0.000928	12.36%

Sequence No.: 4 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 2:56:46 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4895467.1						80299.76	1.64%
YRADIAL	308414.7						3132.53	1.02%
Ga 417.206	1171441.2						20741.11	1.77%
GaRADIAL	59381.0						1600.68	2.70%
Ag 328.068†	79787.2	0.399	mg/L	0.0057	0.399	mg/L	0.0057	1.43%
QC value within limits for Ag 328.068 Recovery = 99.74%								
Al 396.153†	51718.8	10.1	mg/L	0.04	10.1	mg/L	0.04	0.43%
QC value within limits for Al 396.153 Recovery = 100.64%								
As 188.979†	431.0	0.402	mg/L	0.0078	0.402	mg/L	0.0078	1.94%
QC value within limits for As 188.979 Recovery = 100.45%								
Ba 233.527†	57685.7	1.01	mg/L	0.014	1.01	mg/L	0.014	1.37%
QC value within limits for Ba 233.527 Recovery = 101.14%								
Be 234.861†	28545.7	0.0510	mg/L	0.00068	0.0510	mg/L	0.00068	1.34%
QC value within limits for Be 234.861 Recovery = 102.03%								
B 249.677†	27186.3	0.521	mg/L	0.0081	0.521	mg/L	0.0081	1.55%
QC value within limits for B 249.677 Recovery = 104.15%								
Ca 227.546†	1044.4	10.3	mg/L	0.15	10.3	mg/L	0.15	1.42%
QC value within limits for Ca 227.546 Recovery = 103.41%								
Cd 228.802†	874.8	0.0504	mg/L	0.00090	0.0504	mg/L	0.00090	1.79%
QC value within limits for Cd 228.802 Recovery = 100.83%								
Co 228.616†	3805.4	0.201	mg/L	0.0033	0.201	mg/L	0.0033	1.67%
QC value within limits for Co 228.616 Recovery = 100.39%								
Cr 267.716†	56064.1	0.501	mg/L	0.0062	0.501	mg/L	0.0062	1.25%
QC value within limits for Cr 267.716 Recovery = 100.18%								
Cu 327.393†	72380.4	0.507	mg/L	0.0091	0.507	mg/L	0.0091	1.79%
QC value within limits for Cu 327.393 Recovery = 101.31%								
Fe 239.562†	1808.8	3.97	mg/L	0.100	3.97	mg/L	0.100	2.51%
QC value within limits for Fe 239.562 Recovery = 99.32%								
Mg 279.077†	8156.2	9.84	mg/L	0.197	9.84	mg/L	0.197	2.00%
QC value within limits for Mg 279.077 Recovery = 98.38%								
Mn 257.610†	219991.2	0.508	mg/L	0.0065	0.508	mg/L	0.0065	1.28%
QC value within limits for Mn 257.610 Recovery = 101.53%								
Mo 202.031†	13503.2	1.03	mg/L	0.017	1.03	mg/L	0.017	1.63%
QC value within limits for Mo 202.031 Recovery = 102.87%								
Ni 231.604†	16817.1	0.503	mg/L	0.0070	0.503	mg/L	0.0070	1.39%
QC value within limits for Ni 231.604 Recovery = 100.63%								
Pb 220.353†	2896.6	0.527	mg/L	0.0083	0.527	mg/L	0.0083	1.58%
QC value within limits for Pb 220.353 Recovery = 105.37%								
Sb 206.836†	1883.3	1.21	mg/L	0.024	1.21	mg/L	0.024	1.97%
QC value within limits for Sb 206.836 Recovery = 100.47%								

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Se 196.026†	560.6	0.404 mg/L	0.0106	0.404 mg/L	0.0106	2.62%
QC value within limits for Se 196.026 Recovery = 100.99%						
Si 251.611†	169274.0	5.01 mg/L	0.075	5.01 mg/L	0.075	1.49%
QC value within limits for Si 251.611 Recovery = 100.26%						
Sn 189.927†	5743.7	1.03 mg/L	0.018	1.03 mg/L	0.018	1.76%
QC value within limits for Sn 189.927 Recovery = 102.61%						
Ti 334.940†	718261.0	0.999 mg/L	0.0047	0.999 mg/L	0.0047	0.48%
QC value within limits for Ti 334.940 Recovery = 99.86%						
Tl 190.801†	833.6	0.517 mg/L	0.0048	0.517 mg/L	0.0048	0.93%
QC value within limits for Tl 190.801 Recovery = 103.47%						
V 290.880†	146903.8	1.00 mg/L	0.014	1.00 mg/L	0.014	1.37%
QC value within limits for V 290.880 Recovery = 100.11%						
Zn 206.200†	31961.1	1.01 mg/L	0.012	1.01 mg/L	0.012	1.22%
QC value within limits for Zn 206.200 Recovery = 100.96%						
K 766.490†	132845.3	49.7 mg/L	0.25	49.7 mg/L	0.25	0.50%
QC value within limits for K 766.490 Recovery = 99.42%						
Na 589.592†	682852.0	49.7 mg/L	0.37	49.7 mg/L	0.37	0.75%
QC value within limits for Na 589.592 Recovery = 99.47%						
Sr 407.771†	1025826.4	0.952 mg/L	0.0893	0.952 mg/L	0.0893	9.38%
QC value within limits for Sr 407.771 Recovery = 95.22%						
Li 670.784†	83658.0	1.00 mg/L	0.005	1.00 mg/L	0.005	0.47%
QC value within limits for Li 670.784 Recovery = 100.37%						

All analyte(s) passed QC.

Sequence No.: 5 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 3:03:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5213082.6						21050.84	0.40%
YRADIAL	313957.2						1434.93	0.46%
Ga 417.206	1241024.7						1152.86	0.09%
GaRADIAL	60384.5						937.05	1.55%
Ag 328.068†	50.6	-0.00039	mg/L	0.000791	-0.00039	mg/L	0.000791	200.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-21.6	-0.00009	mg/L	0.004549	-0.00009	mg/L	0.004549	>999.9%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.1	0.00062	mg/L	0.000646	0.00062	mg/L	0.000646	104.21%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	17.3	-0.00001	mg/L	0.000399	-0.00001	mg/L	0.000399	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	0.3	0.00000	mg/L	0.000010	0.00000	mg/L	0.000010	264.52%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	771.8	0.0159	mg/L	0.00005	0.0159	mg/L	0.00005	0.34%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-5.0	-0.00698	mg/L	0.040106	-0.00698	mg/L	0.040106	574.74%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	0.7	-0.00009	mg/L	0.000185	-0.00009	mg/L	0.000185	211.95%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	4.1	0.00019	mg/L	0.000082	0.00019	mg/L	0.000082	43.89%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-19.4	-0.00034	mg/L	0.000047	-0.00034	mg/L	0.000047	13.82%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-39.8	-0.00008	mg/L	0.000411	-0.00008	mg/L	0.000411	520.12%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-2.4	-0.00257	mg/L	0.002582	-0.00257	mg/L	0.002582	100.33%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-12.1	0.00227	mg/L	0.008413	0.00227	mg/L	0.008413	370.23%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	14.4	-0.00014	mg/L	0.000018	-0.00014	mg/L	0.000018	12.41%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	1.3	0.00006	mg/L	0.000371	0.00006	mg/L	0.000371	580.10%

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QC value within limits for Mo 202.031 Recovery = Not calculated
Ni 231.604† 3.2 0.00025 mg/L 0.000212 0.00025 mg/L 0.000212 85.58%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 5.6 -0.00100 mg/L 0.000670 -0.00100 mg/L 0.000670 66.72%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† -2.0 0.00000 mg/L 0.000517 0.00000 mg/L 0.000517 >999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -0.2 0.00100 mg/L 0.002125 0.00100 mg/L 0.002125 211.73%
QC value within limits for Se 196.026 Recovery = Not calculated
Si 251.611† 21.5 -0.00266 mg/L 0.000659 -0.00266 mg/L 0.000659 24.80%
QC value within limits for Si 251.611 Recovery = Not calculated
Sn 189.927† 2.8 -0.00059 mg/L 0.000327 -0.00059 mg/L 0.000327 55.17%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 334.940† 1.6 0.00002 mg/L 0.000043 0.00002 mg/L 0.000043 253.49%
QC value within limits for Ti 334.940 Recovery = Not calculated
Tl 190.801† -3.0 0.00013 mg/L 0.004334 0.00013 mg/L 0.004334 >999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 290.880† 20.9 0.00052 mg/L 0.000385 0.00052 mg/L 0.000385 74.13%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 46.8 0.00146 mg/L 0.000071 0.00146 mg/L 0.000071 4.82%
QC value within limits for Zn 206.200 Recovery = Not calculated
K 766.490† 69.9 0.00503 mg/L 0.013714 0.00503 mg/L 0.013714 272.88%
QC value within limits for K 766.490 Recovery = Not calculated
Na 589.592† 598.5 0.0278 mg/L 0.00724 0.0278 mg/L 0.00724 26.08%
QC value within limits for Na 589.592 Recovery = Not calculated
Sr 407.771† 56.8 0.00025 mg/L 0.000029 0.00025 mg/L 0.000029 11.29%
QC value within limits for Sr 407.771 Recovery = Not calculated
Li 670.784† 11.9 0.00074 mg/L 0.001485 0.00074 mg/L 0.001485 200.61%
QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 6 **Autosampler Location: 3**
Sample ID: LLCCV **Date Collected: 2/21/2011 3:10:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5154271.7						61090.23	1.19%
YRADIAL	315324.7						6133.64	1.95%
Ga 417.206	1247107.6						17653.14	1.42%
GaRADIAL	60599.7						526.87	0.87%
Ag 328.068†	1763.8	0.00818	mg/L	0.000453	0.00818	mg/L	0.000453	5.54%
Al 396.153†	1143.9	0.227	mg/L	0.0085	0.227	mg/L	0.0085	3.74%
As 188.979†	8.8	0.00785	mg/L	0.002459	0.00785	mg/L	0.002459	31.33%
Ba 233.527†	1191.5	0.0206	mg/L	0.00039	0.0206	mg/L	0.00039	1.88%
Be 234.861†	568.0	0.00102	mg/L	0.000007	0.00102	mg/L	0.000007	0.68%
B 249.677†	1095.6	0.0221	mg/L	0.00038	0.0221	mg/L	0.00038	1.71%
Ca 227.546†	19.6	0.235	mg/L	0.0283	0.235	mg/L	0.0283	12.05%
Cd 228.802†	17.3	0.00088	mg/L	0.000154	0.00088	mg/L	0.000154	17.51%
Co 228.616†	80.0	0.00419	mg/L	0.000485	0.00419	mg/L	0.000485	11.58%
Cr 267.716†	1197.9	0.0105	mg/L	0.00012	0.0105	mg/L	0.00012	1.16%
Cu 327.393†	1449.2	0.0103	mg/L	0.00066	0.0103	mg/L	0.00066	6.42%
Fe 239.562†	38.0	0.0861	mg/L	0.00347	0.0861	mg/L	0.00347	4.03%
Mg 279.077†	169.8	0.221	mg/L	0.0067	0.221	mg/L	0.0067	3.02%
Mn 257.610†	4595.4	0.0104	mg/L	0.00021	0.0104	mg/L	0.00021	2.06%
Mo 202.031†	271.1	0.0206	mg/L	0.00013	0.0206	mg/L	0.00013	0.63%
Ni 231.604†	345.9	0.0105	mg/L	0.00012	0.0105	mg/L	0.00012	1.14%
Pb 220.353†	66.0	0.0100	mg/L	0.00128	0.0100	mg/L	0.00128	12.81%
Sb 206.836†	37.8	0.0254	mg/L	0.00160	0.0254	mg/L	0.00160	6.30%
Se 196.026†	9.6	0.00804	mg/L	0.003131	0.00804	mg/L	0.003131	38.93%
Si 251.611†	3964.9	0.114	mg/L	0.0021	0.114	mg/L	0.0021	1.88%
Sn 189.927†	128.2	0.0218	mg/L	0.00033	0.0218	mg/L	0.00033	1.50%
Ti 334.940†	14812.4	0.0206	mg/L	0.00036	0.0206	mg/L	0.00036	1.75%

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Tl 190.801†	13.7	0.0104 mg/L	0.00266	0.0104 mg/L	0.00266	25.53%
V 290.880†	3045.5	0.0211 mg/L	0.00050	0.0211 mg/L	0.00050	2.38%
Zn 206.200†	728.6	0.0230 mg/L	0.00028	0.0230 mg/L	0.00028	1.22%
K 766.490†	2928.2	1.08 mg/L	0.018	1.08 mg/L	0.018	1.67%
Na 589.592†	15016.7	1.07 mg/L	0.002	1.07 mg/L	0.002	0.22%
Sr 407.771†	21751.7	0.0204 mg/L	0.00166	0.0204 mg/L	0.00166	8.14%
Li 670.784†	1720.0	0.0212 mg/L	0.00100	0.0212 mg/L	0.00100	4.69%

User canceled analysis.

Approved: February 22, 2011

Pierce Morris

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Analysis Begun

Start Time: 2/21/2011 3:18:00 PM **Plasma On Time: 2/21/2011 7:55:44 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\peicp2\Sample Information\MONDAY1.sif
Batch ID:
Results Data Set: 022111H2
Results Library: C:\pe\peicp2\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 51**
Sample ID: PBW A8 WG356433-02 **Date Collected: 2/21/2011 3:18:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW A8 WG356433-02

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: PBW A8 WG356433-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5195281.3						101666.74	1.96%
YRADIAL	313825.3						6965.78	2.22%
Ga 417.206	1287901.3						26656.80	2.07%
GaRADIAL	60501.5						921.79	1.52%
Ag 328.068†	178.6	0.00025	mg/L	0.000710	0.00025	mg/L	0.000710	289.56%
Al 396.153†	23.4	0.00867	mg/L	0.004993	0.00867	mg/L	0.004993	57.56%
As 188.979†	0.9	0.00050	mg/L	0.001226	0.00050	mg/L	0.001226	244.17%
Ba 233.527†	1.3	-0.00029	mg/L	0.000063	-0.00029	mg/L	0.000063	21.77%
Be 234.861†	20.7	0.00004	mg/L	0.000017	0.00004	mg/L	0.000017	42.46%
B 249.677†	413.8	0.00912	mg/L	0.000551	0.00912	mg/L	0.000551	6.05%
Ca 227.546†	-2.8	0.0142	mg/L	0.05369	0.0142	mg/L	0.05369	378.60%
Cd 228.802†	1.5	-0.00004	mg/L	0.000071	-0.00004	mg/L	0.000071	162.02%
Co 228.616†	-0.9	-0.00008	mg/L	0.000064	-0.00008	mg/L	0.000064	80.74%
Cr 267.716†	-1.3	-0.00018	mg/L	0.000026	-0.00018	mg/L	0.000026	14.76%
Cu 327.393†	7.8	0.00025	mg/L	0.000646	0.00025	mg/L	0.000646	255.04%
Fe 239.562†	-2.6	-0.00284	mg/L	0.003755	-0.00284	mg/L	0.003755	132.38%
Mg 279.077†	-15.2	-0.00142	mg/L	0.003375	-0.00142	mg/L	0.003375	238.21%
Mn 257.610†	1.6	-0.00017	mg/L	0.000022	-0.00017	mg/L	0.000022	12.72%
Mo 202.031†	4.1	0.00027	mg/L	0.000315	0.00027	mg/L	0.000315	114.95%
Ni 231.604†	-1.5	0.00011	mg/L	0.000106	0.00011	mg/L	0.000106	99.87%
Pb 220.353†	8.1	-0.00056	mg/L	0.001379	-0.00056	mg/L	0.001379	248.27%
Sb 206.836†	-1.5	0.00031	mg/L	0.001556	0.00031	mg/L	0.001556	497.43%
Se 196.026†	1.2	0.00195	mg/L	0.004130	0.00195	mg/L	0.004130	211.40%
Si 251.611†	46.5	-0.00192	mg/L	0.000867	-0.00192	mg/L	0.000867	45.23%
Sn 189.927†	4.2	-0.00034	mg/L	0.000814	-0.00034	mg/L	0.000814	236.36%
Ti 334.940†	-58.0	-0.00007	mg/L	0.000065	-0.00007	mg/L	0.000065	99.42%
Tl 190.801†	-4.3	-0.00065	mg/L	0.001894	-0.00065	mg/L	0.001894	290.88%
V 290.880†	54.9	0.00075	mg/L	0.000310	0.00075	mg/L	0.000310	41.35%
Zn 206.200†	265.8	0.00837	mg/L	0.000289	0.00837	mg/L	0.000289	3.45%
K 766.490†	34.2	-0.00834	mg/L	0.017711	-0.00834	mg/L	0.017711	212.36%
Na 589.592†	535.0	0.0232	mg/L	0.00642	0.0232	mg/L	0.00642	27.71%
Sr 407.771†	682.5	0.00084	mg/L	0.000095	0.00084	mg/L	0.000095	11.34%
Li 670.784†	-34.2	0.00019	mg/L	0.000457	0.00019	mg/L	0.000457	243.37%

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Sequence No.: 2 **Autosampler Location: 52**
Sample ID: LCSW A8 WG356433-03 **Date Collected: 2/21/2011 3:24:42 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW A8 WG356433-03

Analyte	Back Pressure	Flow

Approved: February 22, 2011
Pierre Morris

All	170.0 kPa	0.50 L/min

Mean Data: LCSW A8 WG356433-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5081958.9						21373.02	0.42%
YRADIAL	316904.8						5525.46	1.74%
Ga 417.206	1262737.5						19007.53	1.51%
GaRADIAL	60746.7						736.28	1.21%
Ag 328.068†	38877.7	0.194	mg/L	0.0041	0.194	mg/L	0.0041	2.14%
Al 396.153†	26373.0	5.13	mg/L	0.015	5.13	mg/L	0.015	0.30%
As 188.979†	200.9	0.187	mg/L	0.0014	0.187	mg/L	0.0014	0.72%
Ba 233.527†	28847.3	0.506	mg/L	0.0046	0.506	mg/L	0.0046	0.90%
Be 234.861†	13665.6	0.0244	mg/L	0.00052	0.0244	mg/L	0.00052	2.14%
B 249.677†	51504.9	0.976	mg/L	0.0221	0.976	mg/L	0.0221	2.26%
Ca 227.546†	501.2	4.99	mg/L	0.084	4.99	mg/L	0.084	1.68%
Cd 228.802†	412.9	0.0238	mg/L	0.00028	0.0238	mg/L	0.00028	1.16%
Co 228.616†	1875.6	0.0989	mg/L	0.00048	0.0989	mg/L	0.00048	0.48%
Cr 267.716†	27833.0	0.249	mg/L	0.0022	0.249	mg/L	0.0022	0.88%
Cu 327.393†	35120.3	0.246	mg/L	0.0054	0.246	mg/L	0.0054	2.21%
Fe 239.562†	886.8	1.95	mg/L	0.018	1.95	mg/L	0.018	0.92%
Mg 279.077†	4078.1	4.93	mg/L	0.052	4.93	mg/L	0.052	1.05%
Mn 257.610†	111522.7	0.257	mg/L	0.0018	0.257	mg/L	0.0018	0.72%
Mo 202.031†	6578.5	0.501	mg/L	0.0052	0.501	mg/L	0.0052	1.03%
Ni 231.604†	8438.5	0.253	mg/L	0.0037	0.253	mg/L	0.0037	1.45%
Pb 220.353†	1431.9	0.259	mg/L	0.0022	0.259	mg/L	0.0022	0.86%
Sb 206.836†	899.1	0.576	mg/L	0.0117	0.576	mg/L	0.0117	2.02%
Se 196.026†	263.5	0.190	mg/L	0.0051	0.190	mg/L	0.0051	2.69%
Si 251.611†	84479.9	2.50	mg/L	0.058	2.50	mg/L	0.058	2.31%
Sn 189.927†	3026.3	0.540	mg/L	0.0053	0.540	mg/L	0.0053	0.99%
Ti 334.940†	358268.5	0.498	mg/L	0.0039	0.498	mg/L	0.0039	0.78%
Tl 190.801†	413.7	0.258	mg/L	0.0011	0.258	mg/L	0.0011	0.43%
V 290.880†	73412.7	0.500	mg/L	0.0050	0.500	mg/L	0.0050	1.01%
Zn 206.200†	15740.9	0.497	mg/L	0.0033	0.497	mg/L	0.0033	0.67%
K 766.490†	66431.5	24.9	mg/L	0.13	24.9	mg/L	0.13	0.52%
Na 589.592†	346117.9	25.1	mg/L	0.35	25.1	mg/L	0.35	1.41%
Sr 407.771†	533451.7	0.495	mg/L	0.0413	0.495	mg/L	0.0413	8.34%
Li 670.784†	42734.1	0.513	mg/L	0.0040	0.513	mg/L	0.0040	0.78%

Sequence No.: 3 **Autosampler Location: 53**
Sample ID: L1102026601 **Date Collected: 2/21/2011 3:31:20 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026601

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026601

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5191069.5						41935.95	0.81%
YRADIAL	309374.1						1874.53	0.61%
Ga 417.206	1322822.1						16051.23	1.21%
GaRADIAL	60681.6						980.73	1.62%
Ag 328.068†	162.0	-0.00030	mg/L	0.000730	-0.00030	mg/L	0.000730	245.81%
Al 396.153†	817.4	0.164	mg/L	0.0024	0.164	mg/L	0.0024	1.44%
As 188.979†	13.4	0.0129	mg/L	0.00313	0.0129	mg/L	0.00313	24.25%
Ba 233.527†	4451.5	0.0775	mg/L	0.00069	0.0775	mg/L	0.00069	0.89%
Be 234.861†	922.9	0.00016	mg/L	0.000198	0.00016	mg/L	0.000198	126.79%
B 249.677†	748.8	0.0501	mg/L	0.00129	0.0501	mg/L	0.00129	2.56%
Ca 227.546†	1835.7	17.6	mg/L	0.27	17.6	mg/L	0.27	1.52%
Cd 228.802†	1.3	-0.00005	mg/L	0.000155	-0.00005	mg/L	0.000155	312.08%
Co 228.616†	152.6	0.00789	mg/L	0.000423	0.00789	mg/L	0.000423	5.37%
Cr 267.716†	128.3	0.00085	mg/L	0.000084	0.00085	mg/L	0.000084	9.97%
Cu 327.393†	15.3	0.00117	mg/L	0.000436	0.00117	mg/L	0.000436	37.27%
Fe 239.562†	3410.0	7.49	mg/L	0.019	7.49	mg/L	0.019	0.25%
Mg 279.077†	3533.4	4.27	mg/L	0.006	4.27	mg/L	0.006	0.14%

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Mn 257.610†	140148.6	0.322	mg/L	0.0025	0.322	mg/L	0.0025	0.77%
Mo 202.031†	1.4	0.00050	mg/L	0.000363	0.00050	mg/L	0.000363	72.07%
Ni 231.604†	84.3	0.00266	mg/L	0.000260	0.00266	mg/L	0.000260	9.76%
Pb 220.353†	2.4	-0.00110	mg/L	0.000962	-0.00110	mg/L	0.000962	87.59%
Sb 206.836†	3.3	0.00333	mg/L	0.000529	0.00333	mg/L	0.000529	15.87%
Se 196.026†	-17.3	-0.00420	mg/L	0.002846	-0.00420	mg/L	0.002846	67.85%
Si 251.611†	257828.6	7.66	mg/L	0.069	7.66	mg/L	0.069	0.90%
Sn 189.927†	3.5	-0.00047	mg/L	0.001050	-0.00047	mg/L	0.001050	222.25%
Ti 334.940†	2866.7	0.00418	mg/L	0.000558	0.00418	mg/L	0.000558	13.36%
Tl 190.801†	37.7	0.0236	mg/L	0.00262	0.0236	mg/L	0.00262	11.07%
V 290.880†	28.9	0.00114	mg/L	0.001308	0.00114	mg/L	0.001308	114.39%
Zn 206.200†	586.7	0.0183	mg/L	0.00013	0.0183	mg/L	0.00013	0.72%
K 766.490†	6202.0	2.29	mg/L	0.038	2.29	mg/L	0.038	1.64%
Na 589.592†	199427.8	14.5	mg/L	0.16	14.5	mg/L	0.16	1.12%
Sr 407.771†	239048.4	0.221	mg/L	0.0218	0.221	mg/L	0.0218	9.85%
Li 670.784†	252.3	0.00362	mg/L	0.000052	0.00362	mg/L	0.000052	1.44%

Sequence No.: 4 **Autosampler Location: 54**
Sample ID: L1102026602 **Date Collected: 2/21/2011 3:37:59 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026602

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102026602

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5072686.7						46182.47	0.91%
YRADIAL	316629.7						2536.84	0.80%
Ga 417.206	1271838.6						16692.13	1.31%
GaRADIAL	61596.9						1332.42	2.16%
Ag 328.068†	80.3	-0.00066	mg/L	0.000662	-0.00066	mg/L	0.000662	100.03%
Al 396.153†	712.8	0.143	mg/L	0.0022	0.143	mg/L	0.0022	1.50%
As 188.979†	10.5	0.0101	mg/L	0.00221	0.0101	mg/L	0.00221	21.83%
Ba 233.527†	4236.3	0.0738	mg/L	0.00066	0.0738	mg/L	0.00066	0.90%
Be 234.861†	889.3	0.00025	mg/L	0.000142	0.00025	mg/L	0.000142	57.60%
B 249.677†	735.7	0.0464	mg/L	0.00076	0.0464	mg/L	0.00076	1.64%
Ca 227.546†	1772.3	17.0	mg/L	0.13	17.0	mg/L	0.13	0.79%
Cd 228.802†	-1.1	-0.00018	mg/L	0.000198	-0.00018	mg/L	0.000198	112.42%
Co 228.616†	145.0	0.00749	mg/L	0.000285	0.00749	mg/L	0.000285	3.80%
Cr 267.716†	131.3	0.00088	mg/L	0.000011	0.00088	mg/L	0.000011	1.20%
Cu 327.393†	-120.2	0.00014	mg/L	0.000289	0.00014	mg/L	0.000289	202.73%
Fe 239.562†	3070.5	6.74	mg/L	0.090	6.74	mg/L	0.090	1.33%
Mg 279.077†	3264.6	3.94	mg/L	0.043	3.94	mg/L	0.043	1.09%
Mn 257.610†	134957.9	0.311	mg/L	0.0036	0.311	mg/L	0.0036	1.15%
Mo 202.031†	1.5	0.00047	mg/L	0.000183	0.00047	mg/L	0.000183	38.87%
Ni 231.604†	79.8	0.00253	mg/L	0.000154	0.00253	mg/L	0.000154	6.07%
Pb 220.353†	3.4	-0.00092	mg/L	0.000808	-0.00092	mg/L	0.000808	88.23%
Sb 206.836†	6.0	0.00506	mg/L	0.001138	0.00506	mg/L	0.001138	22.49%
Se 196.026†	-16.6	-0.00414	mg/L	0.001895	-0.00414	mg/L	0.001895	45.74%
Si 251.611†	267058.6	7.93	mg/L	0.148	7.93	mg/L	0.148	1.86%
Sn 189.927†	1.2	-0.00089	mg/L	0.000763	-0.00089	mg/L	0.000763	85.32%
Ti 334.940†	4531.5	0.00648	mg/L	0.006410	0.00648	mg/L	0.006410	98.87%
Tl 190.801†	34.2	0.0216	mg/L	0.00251	0.0216	mg/L	0.00251	11.64%
V 290.880†	127.1	0.00176	mg/L	0.001269	0.00176	mg/L	0.001269	72.23%
Zn 206.200†	392.2	0.0122	mg/L	0.00020	0.0122	mg/L	0.00020	1.66%
K 766.490†	5544.5	2.05	mg/L	0.036	2.05	mg/L	0.036	1.77%
Na 589.592†	186855.0	13.6	mg/L	0.28	13.6	mg/L	0.28	2.05%
Sr 407.771†	220993.1	0.205	mg/L	0.0153	0.205	mg/L	0.0153	7.46%
Li 670.784†	42.0	0.00110	mg/L	0.001328	0.00110	mg/L	0.001328	120.58%

Sequence No.: 5 **Autosampler Location: 55**
Sample ID: L1102026603 **Date Collected: 2/21/2011 3:44:38 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 22, 2011

Pierre Morris

Nebulizer Parameters: L1102026603

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026603

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4782818.1						61779.60	1.29%
YRADIAL	298529.2						4623.13	1.55%
Ga 417.206	1150158.1						16466.24	1.43%
GaRADIAL	56690.8						454.88	0.80%
Ag 328.068†	319.0	-0.00011	mg/L	0.000613	-0.00011	mg/L	0.000613	536.38%
Al 396.153†	5582.6	1.09	mg/L	0.012	1.09	mg/L	0.012	1.05%
As 188.979†	18.7	0.0195	mg/L	0.00480	0.0195	mg/L	0.00480	24.54%
Ba 233.527†	3146.1	0.0547	mg/L	0.00084	0.0547	mg/L	0.00084	1.53%
Be 234.861†	2223.7	-0.00004	mg/L	0.000084	-0.00004	mg/L	0.000084	220.23%
B 249.677†	1207.4	0.115	mg/L	0.0010	0.115	mg/L	0.0010	0.84%
Ca 227.546†	1972.4	18.9	mg/L	0.16	18.9	mg/L	0.16	0.82%
Cd 228.802†	7.3	0.00023	mg/L	0.000200	0.00023	mg/L	0.000200	85.56%
Co 228.616†	122.2	0.00589	mg/L	0.000416	0.00589	mg/L	0.000416	7.06%
Cr 267.716†	1393.4	0.0122	mg/L	0.00006	0.0122	mg/L	0.00006	0.49%
Cu 327.393†	2700.1	0.0213	mg/L	0.00029	0.0213	mg/L	0.00029	1.37%
Fe 239.562†	8972.3	19.7	mg/L	0.09	19.7	mg/L	0.09	0.46%
Mg 279.077†	13514.0	16.3	mg/L	0.15	16.3	mg/L	0.15	0.91%
Mn 257.610†	71770.6	0.172	mg/L	0.0024	0.172	mg/L	0.0024	1.42%
Mo 202.031†	19.0	0.00242	mg/L	0.000125	0.00242	mg/L	0.000125	5.19%
Ni 231.604†	578.9	0.0175	mg/L	0.00025	0.0175	mg/L	0.00025	1.43%
Pb 220.353†	6.1	-0.00087	mg/L	0.001092	-0.00087	mg/L	0.001092	125.41%
Sb 206.836†	5.8	0.00491	mg/L	0.001087	0.00491	mg/L	0.001087	22.15%
Se 196.026†	-21.2	-0.00222	mg/L	0.006199	-0.00222	mg/L	0.006199	278.96%
Si 251.611†	865813.9	25.7	mg/L	0.38	25.7	mg/L	0.38	1.46%
Sn 189.927†	6.6	0.00008	mg/L	0.000941	0.00008	mg/L	0.000941	>999.9%
Ti 334.940†	22057.9	0.0309	mg/L	0.00154	0.0309	mg/L	0.00154	4.98%
Tl 190.801†	34.7	0.0218	mg/L	0.00333	0.0218	mg/L	0.00333	15.28%
V 290.880†	1694.6	0.0134	mg/L	0.00084	0.0134	mg/L	0.00084	6.27%
Zn 206.200†	1356.8	0.0424	mg/L	0.00054	0.0424	mg/L	0.00054	1.28%
K 766.490†	149932.0	56.0	mg/L	0.43	56.0	mg/L	0.43	0.77%
Na 589.592†	1563496.7	115	mg/L	0.4	115	mg/L	0.4	0.36%
Sr 407.771†	405424.5	0.374	mg/L	0.0063	0.374	mg/L	0.0063	1.69%
Li 670.784†	1109.8	0.0139	mg/L	0.00210	0.0139	mg/L	0.00210	15.13%

Sequence No.: 6 **Autosampler Location: 56**
Sample ID: L1102026604 **Date Collected: 2/21/2011 3:50:20 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026604

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026604

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4975829.2						33161.37	0.67%
YRADIAL	310684.2						3802.07	1.22%
Ga 417.206	1242519.0						9876.93	0.79%
GaRADIAL	60282.2						377.89	0.63%
Ag 328.068†	646.3	0.00103	mg/L	0.001144	0.00103	mg/L	0.001144	111.41%
Al 396.153†	6989.0	1.37	mg/L	0.012	1.37	mg/L	0.012	0.85%
As 188.979†	18.1	0.0190	mg/L	0.00352	0.0190	mg/L	0.00352	18.51%
Ba 233.527†	1816.8	0.0315	mg/L	0.00035	0.0315	mg/L	0.00035	1.13%
Be 234.861†	3338.3	-0.00023	mg/L	0.000155	-0.00023	mg/L	0.000155	68.55%
B 249.677†	3026.7	0.198	mg/L	0.0021	0.198	mg/L	0.0021	1.08%
Ca 227.546†	9211.3	88.0	mg/L	1.00	88.0	mg/L	1.00	1.14%
Cd 228.802†	202.9	0.0116	mg/L	0.00037	0.0116	mg/L	0.00037	3.16%
Co 228.616†	78.3	0.00333	mg/L	0.000282	0.00333	mg/L	0.000282	8.48%

Approved: February 22, 2011

Pierre Morris

Cr 267.716†	502.8	0.00425 mg/L	0.000079	0.00425 mg/L	0.000079	1.86%
Cu 327.393†	425.4	0.00666 mg/L	0.000304	0.00666 mg/L	0.000304	4.55%
Fe 239.562†	13823.3	30.3 mg/L	0.56	30.3 mg/L	0.56	1.83%
Mg 279.077†	4557.0	5.49 mg/L	0.084	5.49 mg/L	0.084	1.53%
Mn 257.610†	78053.7	0.181 mg/L	0.0018	0.181 mg/L	0.0018	1.01%
Mo 202.031†	13.0	0.00249 mg/L	0.000472	0.00249 mg/L	0.000472	18.95%
Ni 231.604†	64.7	0.00205 mg/L	0.000093	0.00205 mg/L	0.000093	4.54%
Pb 220.353†	95.7	0.0182 mg/L	0.00218	0.0182 mg/L	0.00218	11.95%
Sb 206.836†	10.3	0.00782 mg/L	0.000625	0.00782 mg/L	0.000625	7.99%
Se 196.026†	-51.4	-0.00263 mg/L	0.003002	-0.00263 mg/L	0.003002	113.92%
Si 251.611†	229854.7	6.83 mg/L	0.062	6.83 mg/L	0.062	0.91%
Sn 189.927†	-0.6	-0.00121 mg/L	0.000727	-0.00121 mg/L	0.000727	59.88%
Ti 334.940†	4155.1	0.00667 mg/L	0.000269	0.00667 mg/L	0.000269	4.04%
Tl 190.801†	112.6	0.0624 mg/L	0.00135	0.0624 mg/L	0.00135	2.16%
V 290.880†	939.4	0.00910 mg/L	0.000764	0.00910 mg/L	0.000764	8.39%
Zn 206.200†	2860.4	0.0895 mg/L	0.00058	0.0895 mg/L	0.00058	0.65%
K 766.490†	34441.3	12.9 mg/L	0.05	12.9 mg/L	0.05	0.39%
Na 589.592†	111130.1	8.05 mg/L	0.038	8.05 mg/L	0.038	0.47%
Sr 407.771†	158019.6	0.143 mg/L	0.0032	0.143 mg/L	0.0032	2.24%
Li 670.784†	169.9	0.00264 mg/L	0.000937	0.00264 mg/L	0.000937	35.55%

Sequence No.: 7 **Autosampler Location: 57**
Sample ID: L1102026605 **Date Collected: 2/21/2011 3:56:01 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026605

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026605

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5163599.3						31302.37	0.61%
YRADIAL	318618.3						2507.54	0.79%
Ga 417.206	1284506.9						17112.51	1.33%
GaRADIAL	61351.2						145.19	0.24%
Ag 328.068†	456.6	0.00088	mg/L	0.001321	0.00088	mg/L	0.001321	149.42%
Al 396.153†	1843.1	0.364	mg/L	0.0210	0.364	mg/L	0.0210	5.76%
As 188.979†	17.6	0.0173	mg/L	0.00279	0.0173	mg/L	0.00279	16.06%
Ba 233.527†	6160.8	0.107	mg/L	0.0006	0.107	mg/L	0.0006	0.60%
Be 234.861†	1464.6	0.00016	mg/L	0.000148	0.00016	mg/L	0.000148	90.75%
B 249.677†	50.5	0.0593	mg/L	0.00212	0.0593	mg/L	0.00212	3.58%
Ca 227.546†	2802.0	26.8	mg/L	0.16	26.8	mg/L	0.16	0.60%
Cd 228.802†	6.0	0.00024	mg/L	0.000174	0.00024	mg/L	0.000174	73.47%
Co 228.616†	240.5	0.0124	mg/L	0.00020	0.0124	mg/L	0.00020	1.60%
Cr 267.716†	184.0	0.00123	mg/L	0.000112	0.00123	mg/L	0.000112	9.15%
Cu 327.393†	-70.9	0.00113	mg/L	0.000800	0.00113	mg/L	0.000800	70.58%
Fe 239.562†	5622.5	12.3	mg/L	0.19	12.3	mg/L	0.19	1.54%
Mg 279.077†	4812.1	5.80	mg/L	0.120	5.80	mg/L	0.120	2.07%
Mn 257.610†	255818.8	0.587	mg/L	0.0052	0.587	mg/L	0.0052	0.89%
Mo 202.031†	3.8	0.00098	mg/L	0.000557	0.00098	mg/L	0.000557	56.52%
Ni 231.604†	109.9	0.00342	mg/L	0.000362	0.00342	mg/L	0.000362	10.57%
Pb 220.353†	-6.2	-0.00245	mg/L	0.002098	-0.00245	mg/L	0.002098	85.54%
Sb 206.836†	5.6	0.00484	mg/L	0.001109	0.00484	mg/L	0.001109	22.92%
Se 196.026†	-21.7	-0.00338	mg/L	0.002024	-0.00338	mg/L	0.002024	59.80%
Si 251.611†	286505.8	8.51	mg/L	0.152	8.51	mg/L	0.152	1.78%
Sn 189.927†	12.4	0.00111	mg/L	0.000163	0.00111	mg/L	0.000163	14.66%
Ti 334.940†	8846.0	0.0126	mg/L	0.00283	0.0126	mg/L	0.00283	22.46%
Tl 190.801†	57.8	0.0354	mg/L	0.00097	0.0354	mg/L	0.00097	2.74%
V 290.880†	-123.3	0.00048	mg/L	0.001516	0.00048	mg/L	0.001516	317.57%
Zn 206.200†	580.4	0.0180	mg/L	0.00020	0.0180	mg/L	0.00020	1.08%
K 766.490†	3923.8	1.44	mg/L	0.066	1.44	mg/L	0.066	4.58%
Na 589.592†	175404.4	12.7	mg/L	0.08	12.7	mg/L	0.08	0.64%
Sr 407.771†	306667.1	0.283	mg/L	0.0053	0.283	mg/L	0.0053	1.88%
Li 670.784†	431.1	0.00577	mg/L	0.001355	0.00577	mg/L	0.001355	23.50%

Sequence No.: 8 **Autosampler Location: 58**

Approved: February 22, 2011

Pierre Morris

Sample ID: L1102026606 **Date Collected: 2/21/2011 4:01:44 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026606

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102026606

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5034885.8						61931.42	1.23%
YRADIAL	316849.7						9761.30	3.08%
Ga 417.206	1258554.8						21766.98	1.73%
GaRADIAL	60358.8						1094.04	1.81%
Ag 328.068†	413.8	0.00064	mg/L	0.001568	0.00064	mg/L	0.001568	246.84%
Al 396.153†	965.5	0.193	mg/L	0.0084	0.193	mg/L	0.0084	4.37%
As 188.979†	17.8	0.0176	mg/L	0.00150	0.0176	mg/L	0.00150	8.53%
Ba 233.527†	5939.6	0.104	mg/L	0.0024	0.104	mg/L	0.0024	2.35%
Be 234.861†	1487.7	0.00006	mg/L	0.000232	0.00006	mg/L	0.000232	375.35%
B 249.677†	-123.7	0.0595	mg/L	0.00178	0.0595	mg/L	0.00178	3.00%
Ca 227.546†	2880.6	27.6	mg/L	0.17	27.6	mg/L	0.17	0.63%
Cd 228.802†	3.6	0.00010	mg/L	0.000155	0.00010	mg/L	0.000155	157.49%
Co 228.616†	243.2	0.0126	mg/L	0.00053	0.0126	mg/L	0.00053	4.19%
Cr 267.716†	108.5	0.00055	mg/L	0.000043	0.00055	mg/L	0.000043	7.85%
Cu 327.393†	-0.0	0.00170	mg/L	0.000331	0.00170	mg/L	0.000331	19.48%
Fe 239.562†	5945.1	13.1	mg/L	0.37	13.1	mg/L	0.37	2.84%
Mg 279.077†	4953.2	5.97	mg/L	0.139	5.97	mg/L	0.139	2.33%
Mn 257.610†	258960.2	0.594	mg/L	0.0038	0.594	mg/L	0.0038	0.64%
Mo 202.031†	0.7	0.00078	mg/L	0.000611	0.00078	mg/L	0.000611	78.24%
Ni 231.604†	92.6	0.00291	mg/L	0.000538	0.00291	mg/L	0.000538	18.51%
Pb 220.353†	-4.2	-0.00209	mg/L	0.001288	-0.00209	mg/L	0.001288	61.61%
Sb 206.836†	4.1	0.00385	mg/L	0.000679	0.00385	mg/L	0.000679	17.63%
Se 196.026†	-25.7	-0.00581	mg/L	0.001387	-0.00581	mg/L	0.001387	23.89%
Si 251.611†	275155.8	8.18	mg/L	0.056	8.18	mg/L	0.056	0.69%
Sn 189.927†	15.7	0.00171	mg/L	0.000388	0.00171	mg/L	0.000388	22.70%
Ti 334.940†	3575.8	0.00526	mg/L	0.000773	0.00526	mg/L	0.000773	14.68%
Tl 190.801†	53.5	0.0327	mg/L	0.00365	0.0327	mg/L	0.00365	11.15%
V 290.880†	-36.4	0.00112	mg/L	0.000844	0.00112	mg/L	0.000844	75.13%
Zn 206.200†	526.6	0.0163	mg/L	0.00037	0.0163	mg/L	0.00037	2.28%
K 766.490†	3861.4	1.42	mg/L	0.025	1.42	mg/L	0.025	1.80%
Na 589.592†	174143.9	12.6	mg/L	0.10	12.6	mg/L	0.10	0.77%
Sr 407.771†	306114.4	0.283	mg/L	0.0023	0.283	mg/L	0.0023	0.82%
Li 670.784†	397.3	0.00536	mg/L	0.001125	0.00536	mg/L	0.001125	20.99%

Sequence No.: 9 **Autosampler Location: 59**
Sample ID: L1102026606PS WG356489-01 **Date Collected: 2/21/2011 4:07:26 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026606PS WG356489-01

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026606PS WG356489-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5060145.2						51020.64	1.01%
YRADIAL	314303.8						5982.79	1.90%
Ga 417.206	1241094.8						42662.17	3.44%
GaRADIAL	59697.2						1082.51	1.81%
Ag 328.068†	39334.8	0.196	mg/L	0.0061	0.196	mg/L	0.0061	3.10%
Al 396.153†	27201.1	5.30	mg/L	0.018	5.30	mg/L	0.018	0.34%
As 188.979†	219.1	0.205	mg/L	0.0099	0.205	mg/L	0.0099	4.81%
Ba 233.527†	33476.6	0.587	mg/L	0.0067	0.587	mg/L	0.0067	1.15%
Be 234.861†	15247.0	0.0249	mg/L	0.00094	0.0249	mg/L	0.00094	3.77%

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B 249.677†	50954.8	1.02 mg/L	0.027	1.02 mg/L	0.027	2.63%
Ca 227.546†	3109.7	29.9 mg/L	0.90	29.9 mg/L	0.90	3.02%
Cd 228.802†	412.4	0.0237 mg/L	0.00084	0.0237 mg/L	0.00084	3.55%
Co 228.616†	2040.7	0.107 mg/L	0.0013	0.107 mg/L	0.0013	1.19%
Cr 267.716†	27435.0	0.245 mg/L	0.0024	0.245 mg/L	0.0024	1.00%
Cu 327.393†	35162.4	0.248 mg/L	0.0080	0.248 mg/L	0.0080	3.25%
Fe 239.562†	6126.5	13.5 mg/L	0.51	13.5 mg/L	0.51	3.76%
Mg 279.077†	8518.4	10.3 mg/L	0.38	10.3 mg/L	0.38	3.66%
Mn 257.610†	333254.2	0.766 mg/L	0.0063	0.766 mg/L	0.0063	0.82%
Mo 202.031†	6501.5	0.496 mg/L	0.0005	0.496 mg/L	0.0005	0.11%
Ni 231.604†	8290.3	0.248 mg/L	0.0027	0.248 mg/L	0.0027	1.07%
Pb 220.353†	1395.4	0.253 mg/L	0.0016	0.253 mg/L	0.0016	0.64%
Sb 206.836†	912.4	0.585 mg/L	0.0209	0.585 mg/L	0.0209	3.57%
Se 196.026†	245.9	0.188 mg/L	0.0072	0.188 mg/L	0.0072	3.82%
Si 251.611†	330769.5	9.82 mg/L	0.265	9.82 mg/L	0.265	2.69%
Sn 189.927†	17.0	0.00193 mg/L	0.000823	0.00193 mg/L	0.000823	42.53%
Ti 334.940†	365746.2	0.509 mg/L	0.0090	0.509 mg/L	0.0090	1.76%
Tl 190.801†	460.6	0.285 mg/L	0.0058	0.285 mg/L	0.0058	2.05%
V 290.880†	72270.8	0.494 mg/L	0.0049	0.494 mg/L	0.0049	0.98%
Zn 206.200†	15926.7	0.503 mg/L	0.0077	0.503 mg/L	0.0077	1.53%
K 766.490†	69688.9	26.1 mg/L	0.06	26.1 mg/L	0.06	0.25%
Na 589.592†	495895.8	36.1 mg/L	0.05	36.1 mg/L	0.05	0.13%
Sr 407.771†	775251.5	0.718 mg/L	0.0129	0.718 mg/L	0.0129	1.79%
Li 670.784†	42544.5	0.511 mg/L	0.0023	0.511 mg/L	0.0023	0.44%

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Sequence No.: 10 **Autosampler Location: 60**
Sample ID: L1102026606DL WG356489-02 **Date Collected: 2/21/2011 4:13:10 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026606DL WG356489-02

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026606DL WG356489-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	5231963.9						36186.48	0.69%
YRADIAL	313262.8						2823.81	0.90%
Ga 417.206	1267948.9						24764.74	1.95%
GaRADIAL	60658.2						1174.49	1.94%
Ag 328.068†	-6.3	-0.00083	mg/L	0.001274	-0.00083	mg/L	0.001274	152.91%
Al 396.153†	298.8	0.0625	mg/L	0.00082	0.0625	mg/L	0.00082	1.31%
As 188.979†	3.9	0.00351	mg/L	0.002852	0.00351	mg/L	0.002852	81.33%
Ba 233.527†	1172.2	0.0202	mg/L	0.00023	0.0202	mg/L	0.00023	1.13%
Be 234.861†	359.3	0.00014	mg/L	0.000130	0.00014	mg/L	0.000130	93.96%
B 249.677†	254.1	0.0179	mg/L	0.00080	0.0179	mg/L	0.00080	4.45%
Ca 227.546†	558.9	5.38	mg/L	0.121	5.38	mg/L	0.121	2.25%
Cd 228.802†	0.4	-0.00010	mg/L	0.000071	-0.00010	mg/L	0.000071	71.63%
Co 228.616†	49.0	0.00251	mg/L	0.000138	0.00251	mg/L	0.000138	5.48%
Cr 267.716†	18.2	-0.00005	mg/L	0.000034	-0.00005	mg/L	0.000034	65.46%
Cu 327.393†	-58.7	0.00008	mg/L	0.000062	0.00008	mg/L	0.000062	76.91%
Fe 239.562†	1153.1	2.53	mg/L	0.040	2.53	mg/L	0.040	1.58%
Mg 279.077†	980.4	1.20	mg/L	0.009	1.20	mg/L	0.009	0.74%
Mn 257.610†	51180.7	0.117	mg/L	0.0013	0.117	mg/L	0.0013	1.14%
Mo 202.031†	-3.0	-0.00012	mg/L	0.000092	-0.00012	mg/L	0.000092	76.70%
Ni 231.604†	19.2	0.00072	mg/L	0.000371	0.00072	mg/L	0.000371	51.42%
Pb 220.353†	6.0	-0.00080	mg/L	0.000720	-0.00080	mg/L	0.000720	90.47%
Sb 206.836†	3.1	0.00321	mg/L	0.001647	0.00321	mg/L	0.001647	51.35%
Se 196.026†	-2.7	0.00143	mg/L	0.004229	0.00143	mg/L	0.004229	295.17%
Si 251.611†	55573.0	1.65	mg/L	0.023	1.65	mg/L	0.023	1.42%
Sn 189.927†	8.0	0.00033	mg/L	0.000890	0.00033	mg/L	0.000890	270.03%
Ti 334.940†	279.6	0.00046	mg/L	0.000145	0.00046	mg/L	0.000145	31.66%
Tl 190.801†	11.6	0.00864	mg/L	0.003716	0.00864	mg/L	0.003716	43.00%
V 290.880†	-102.6	-0.00013	mg/L	0.000566	-0.00013	mg/L	0.000566	439.85%
Zn 206.200†	155.4	0.00483	mg/L	0.000077	0.00483	mg/L	0.000077	1.59%
K 766.490†	807.6	0.279	mg/L	0.0360	0.279	mg/L	0.0360	12.88%
Na 589.592†	34791.6	2.51	mg/L	0.032	2.51	mg/L	0.032	1.28%
Sr 407.771†	64422.3	0.0597	mg/L	0.00424	0.0597	mg/L	0.00424	7.09%

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Li 670.784†	63.7	0.00136 mg/L	0.000242	0.00136 mg/L	0.000242	17.80%	

Sequence No.: 11 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 4:19:48 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4954791.4						25038.28	0.51%
YRADIAL	303787.6						11125.15	3.66%
Ga 417.206	1200677.3						4977.51	0.41%
GaRADIAL	58808.4						1027.78	1.75%
Ag 328.068†	79335.6	0.397	mg/L	0.0039	0.397	mg/L	0.0039	0.97%
QC value within limits for Ag 328.068 Recovery = 99.17%								
Al 396.153†	51598.4	10.0	mg/L	0.07	10.0	mg/L	0.07	0.65%
QC value within limits for Al 396.153 Recovery = 100.41%								
As 188.979†	417.4	0.389	mg/L	0.0063	0.389	mg/L	0.0063	1.62%
QC value within limits for As 188.979 Recovery = 97.29%								
Ba 233.527†	57692.0	1.01	mg/L	0.012	1.01	mg/L	0.012	1.16%
QC value within limits for Ba 233.527 Recovery = 101.15%								
Be 234.861†	28308.4	0.0506	mg/L	0.00060	0.0506	mg/L	0.00060	1.18%
QC value within limits for Be 234.861 Recovery = 101.11%								
B 249.677†	26573.7	0.509	mg/L	0.0037	0.509	mg/L	0.0037	0.73%
QC value within limits for B 249.677 Recovery = 101.87%								
Ca 227.546†	1025.3	10.2	mg/L	0.11	10.2	mg/L	0.11	1.04%
QC value within limits for Ca 227.546 Recovery = 101.59%								
Cd 228.802†	861.4	0.0497	mg/L	0.00031	0.0497	mg/L	0.00031	0.63%
QC value within limits for Cd 228.802 Recovery = 99.39%								
Co 228.616†	3754.6	0.198	mg/L	0.0011	0.198	mg/L	0.0011	0.54%
QC value within limits for Co 228.616 Recovery = 99.03%								
Cr 267.716†	56120.9	0.501	mg/L	0.0057	0.501	mg/L	0.0057	1.13%
QC value within limits for Cr 267.716 Recovery = 100.28%								
Cu 327.393†	72237.9	0.506	mg/L	0.0053	0.506	mg/L	0.0053	1.05%
QC value within limits for Cu 327.393 Recovery = 101.12%								
Fe 239.562†	1820.6	4.00	mg/L	0.093	4.00	mg/L	0.093	2.33%
QC value within limits for Fe 239.562 Recovery = 99.96%								
Mg 279.077†	8229.6	9.93	mg/L	0.264	9.93	mg/L	0.264	2.66%
QC value within limits for Mg 279.077 Recovery = 99.27%								
Mn 257.610†	220135.5	0.508	mg/L	0.0061	0.508	mg/L	0.0061	1.19%
QC value within limits for Mn 257.610 Recovery = 101.59%								
Mo 202.031†	13173.6	1.00	mg/L	0.017	1.00	mg/L	0.017	1.65%
QC value within limits for Mo 202.031 Recovery = 100.36%								
Ni 231.604†	16794.5	0.502	mg/L	0.0059	0.502	mg/L	0.0059	1.17%
QC value within limits for Ni 231.604 Recovery = 100.50%								
Pb 220.353†	2856.3	0.519	mg/L	0.0018	0.519	mg/L	0.0018	0.34%
QC value within limits for Pb 220.353 Recovery = 103.89%								
Sb 206.836†	1843.3	1.18	mg/L	0.009	1.18	mg/L	0.009	0.76%
QC value within limits for Sb 206.836 Recovery = 98.33%								
Se 196.026†	552.6	0.398	mg/L	0.0043	0.398	mg/L	0.0043	1.08%
QC value within limits for Se 196.026 Recovery = 99.54%								
Si 251.611†	168281.7	4.98	mg/L	0.042	4.98	mg/L	0.042	0.84%
QC value within limits for Si 251.611 Recovery = 99.67%								
Sn 189.927†	5673.8	1.01	mg/L	0.003	1.01	mg/L	0.003	0.27%
QC value within limits for Sn 189.927 Recovery = 101.36%								
Ti 334.940†	718837.1	0.999	mg/L	0.0034	0.999	mg/L	0.0034	0.34%
QC value within limits for Ti 334.940 Recovery = 99.94%								
Tl 190.801†	825.5	0.512	mg/L	0.0008	0.512	mg/L	0.0008	0.15%
QC value within limits for Tl 190.801 Recovery = 102.49%								
V 290.880†	147284.1	1.00	mg/L	0.012	1.00	mg/L	0.012	1.16%
QC value within limits for V 290.880 Recovery = 100.37%								
Zn 206.200†	31664.7	1.00	mg/L	0.013	1.00	mg/L	0.013	1.29%
QC value within limits for Zn 206.200 Recovery = 100.03%								
K 766.490†	132903.0	49.7	mg/L	0.46	49.7	mg/L	0.46	0.92%

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QC value within limits for K 766.490 Recovery = 99.47%
Na 589.592† 679068.3 49.5 mg/L 0.56 49.5 mg/L 0.56 1.14%
QC value within limits for Na 589.592 Recovery = 98.91%
Sr 407.771† 1066870.7 0.990 mg/L 0.0729 0.990 mg/L 0.0729 7.36%
QC value within limits for Sr 407.771 Recovery = 99.03%
Li 670.784† 83291.3 0.999 mg/L 0.0054 0.999 mg/L 0.0054 0.54%
QC value within limits for Li 670.784 Recovery = 99.93%
All analyte(s) passed QC.

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Sequence No.: 12 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 4:26:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	5194377.1						19715.35	0.38%
YRADIAL	309231.2						2417.54	0.78%
Ga 417.206	1237517.9						6531.19	0.53%
GaRADIAL	59939.0						849.44	1.42%
Ag 328.068†	-16.5	-0.00073	mg/L	0.000129	-0.00073	mg/L	0.000129	17.72%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-49.9	-0.00560	mg/L	0.004975	-0.00560	mg/L	0.004975	88.86%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.5	0.00014	mg/L	0.002789	0.00014	mg/L	0.002789	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	3.1	-0.00026	mg/L	0.000042	-0.00026	mg/L	0.000042	16.09%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-3.2	0.00000	mg/L	0.000019	0.00000	mg/L	0.000019	546.24%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	386.1	0.00863	mg/L	0.000075	0.00863	mg/L	0.000075	0.87%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-1.1	0.0302	mg/L	0.08404	0.0302	mg/L	0.08404	277.90%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	0.3	-0.00011	mg/L	0.000157	-0.00011	mg/L	0.000157	146.98%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	7.2	0.00035	mg/L	0.000707	0.00035	mg/L	0.000707	202.13%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-6.6	-0.00022	mg/L	0.000071	-0.00022	mg/L	0.000071	31.51%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	13.2	0.00029	mg/L	0.000061	0.00029	mg/L	0.000061	20.95%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-0.3	0.00212	mg/L	0.002722	0.00212	mg/L	0.002722	128.53%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-13.4	0.00066	mg/L	0.010738	0.00066	mg/L	0.010738	>999.9%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	16.2	-0.00014	mg/L	0.000011	-0.00014	mg/L	0.000011	7.80%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.1	-0.00003	mg/L	0.000013	-0.00003	mg/L	0.000013	38.83%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	2.7	0.00023	mg/L	0.000218	0.00023	mg/L	0.000218	93.50%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	6.6	-0.00082	mg/L	0.000661	-0.00082	mg/L	0.000661	80.50%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-3.1	-0.00075	mg/L	0.001925	-0.00075	mg/L	0.001925	257.11%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-4.2	-0.00188	mg/L	0.005491	-0.00188	mg/L	0.005491	292.71%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	32.4	-0.00233	mg/L	0.000469	-0.00233	mg/L	0.000469	20.14%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	8.6	0.00044	mg/L	0.000604	0.00044	mg/L	0.000604	137.85%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-22.4	-0.00002	mg/L	0.000028	-0.00002	mg/L	0.000028	174.70%
QC value within limits for Ti 334.940 Recovery = Not calculated								

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Tl 190.801†	-2.3	0.00054 mg/L	0.000629	0.00054 mg/L	0.000629	117.24%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	-77.2	-0.00015 mg/L	0.000554	-0.00015 mg/L	0.000554	372.57%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	13.2	0.00041 mg/L	0.000134	0.00041 mg/L	0.000134	33.02%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	107.9	0.0193 mg/L	0.01406	0.0193 mg/L	0.01406	72.75%	
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	417.2	0.0146 mg/L	0.00995	0.0146 mg/L	0.00995	68.09%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	25.0	0.00022 mg/L	0.000015	0.00022 mg/L	0.000015	6.81%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	-28.0	0.00026 mg/L	0.000840	0.00026 mg/L	0.000840	320.47%	
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 13 **Autosampler Location: 3**
Sample ID: LLCCV **Date Collected: 2/21/2011 4:33:01 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5116743.5						34964.77	0.68%
YRADIAL	304996.2						5126.90	1.68%
Ga 417.206	1237315.4						4235.85	0.34%
GaRADIAL	59098.2						199.58	0.34%
Ag 328.068†	1534.0	0.00704	mg/L	0.000533	0.00704	mg/L	0.000533	7.58%
Al 396.153†	1103.7	0.219	mg/L	0.0105	0.219	mg/L	0.0105	4.78%
As 188.979†	8.4	0.00752	mg/L	0.001065	0.00752	mg/L	0.001065	14.17%
Ba 233.527†	1191.3	0.0206	mg/L	0.00012	0.0206	mg/L	0.00012	0.59%
Be 234.861†	581.5	0.00104	mg/L	0.000003	0.00104	mg/L	0.000003	0.33%
B 249.677†	800.7	0.0166	mg/L	0.00045	0.0166	mg/L	0.00045	2.70%
Ca 227.546†	18.0	0.220	mg/L	0.0315	0.220	mg/L	0.0315	14.34%
Cd 228.802†	19.7	0.00101	mg/L	0.000089	0.00101	mg/L	0.000089	8.74%
Co 228.616†	72.5	0.00379	mg/L	0.000311	0.00379	mg/L	0.000311	8.20%
Cr 267.716†	1202.8	0.0106	mg/L	0.00007	0.0106	mg/L	0.00007	0.70%
Cu 327.393†	1433.4	0.0102	mg/L	0.00044	0.0102	mg/L	0.00044	4.34%
Fe 239.562†	40.2	0.0910	mg/L	0.00745	0.0910	mg/L	0.00745	8.19%
Mg 279.077†	172.7	0.225	mg/L	0.0045	0.225	mg/L	0.0045	2.00%
Mn 257.610†	4586.7	0.0104	mg/L	0.00015	0.0104	mg/L	0.00015	1.48%
Mo 202.031†	263.5	0.0200	mg/L	0.00022	0.0200	mg/L	0.00022	1.10%
Ni 231.604†	337.2	0.0102	mg/L	0.00011	0.0102	mg/L	0.00011	1.11%
Pb 220.353†	67.0	0.0102	mg/L	0.00133	0.0102	mg/L	0.00133	13.00%
Sb 206.836†	38.0	0.0255	mg/L	0.00099	0.0255	mg/L	0.00099	3.89%
Se 196.026†	18.7	0.0145	mg/L	0.00529	0.0145	mg/L	0.00529	36.33%
Si 251.611†	3999.8	0.115	mg/L	0.0017	0.115	mg/L	0.0017	1.49%
Sn 189.927†	120.3	0.0204	mg/L	0.00028	0.0204	mg/L	0.00028	1.35%
Ti 334.940†	14639.6	0.0204	mg/L	0.00059	0.0204	mg/L	0.00059	2.88%
Tl 190.801†	11.0	0.00879	mg/L	0.000753	0.00879	mg/L	0.000753	8.57%
V 290.880†	3045.2	0.0211	mg/L	0.00099	0.0211	mg/L	0.00099	4.67%
Zn 206.200†	702.9	0.0222	mg/L	0.00019	0.0222	mg/L	0.00019	0.88%
K 766.490†	2840.3	1.04	mg/L	0.026	1.04	mg/L	0.026	2.48%
Na 589.592†	14871.1	1.06	mg/L	0.006	1.06	mg/L	0.006	0.58%
Sr 407.771†	22686.3	0.0213	mg/L	0.00160	0.0213	mg/L	0.00160	7.53%
Li 670.784†	1627.3	0.0201	mg/L	0.00224	0.0201	mg/L	0.00224	11.16%

Sequence No.: 14 **Autosampler Location: 61**
Sample ID: L1102026607 **Date Collected: 2/21/2011 4:39:41 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 22, 2011

Pierre Morris

Nebulizer Parameters: L1102026607

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: L1102026607

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4803749.6						29181.11	0.61%
YRADIAL	308869.8						7232.26	2.34%
Ga 417.206	1199400.9						19764.66	1.65%
GaRADIAL	58918.2						892.56	1.51%
Ag 328.068†	609.5	0.00147	mg/L	0.000938	0.00147	mg/L	0.000938	63.76%
Al 396.153†	910.3	0.183	mg/L	0.0125	0.183	mg/L	0.0125	6.84%
As 188.979†	11.8	0.0110	mg/L	0.00086	0.0110	mg/L	0.00086	7.79%
Ba 233.527†	2568.9	0.0447	mg/L	0.00027	0.0447	mg/L	0.00027	0.59%
Be 234.861†	2029.5	-0.00001	mg/L	0.000119	-0.00001	mg/L	0.000119	>999.9%
B 249.677†	1222.6	0.107	mg/L	0.0019	0.107	mg/L	0.0019	1.73%
Ca 227.546†	11880.1	113	mg/L	0.8	113	mg/L	0.8	0.68%
Cd 228.802†	1.3	-0.00010	mg/L	0.000077	-0.00010	mg/L	0.000077	73.53%
Co 228.616†	64.7	0.00281	mg/L	0.000404	0.00281	mg/L	0.000404	14.37%
Cr 267.716†	1556.3	0.0137	mg/L	0.00028	0.0137	mg/L	0.00028	2.02%
Cu 327.393†	-555.2	-0.00152	mg/L	0.000308	-0.00152	mg/L	0.000308	20.25%
Fe 239.562†	8133.6	17.9	mg/L	0.45	17.9	mg/L	0.45	2.49%
Mg 279.077†	14748.3	17.8	mg/L	0.58	17.8	mg/L	0.58	3.25%
Mn 257.610†	61702.7	0.151	mg/L	0.0016	0.151	mg/L	0.0016	1.08%
Mo 202.031†	15.8	0.00209	mg/L	0.000615	0.00209	mg/L	0.000615	29.40%
Ni 231.604†	316.7	0.00958	mg/L	0.000464	0.00958	mg/L	0.000464	4.84%
Pb 220.353†	-7.3	0.00131	mg/L	0.000442	0.00131	mg/L	0.000442	33.77%
Sb 206.836†	14.9	0.0107	mg/L	0.00406	0.0107	mg/L	0.00406	38.02%
Se 196.026†	-49.3	0.00079	mg/L	0.003699	0.00079	mg/L	0.003699	471.11%
Si 251.611†	839451.9	24.9	mg/L	0.50	24.9	mg/L	0.50	2.00%
Sn 189.927†	2.6	-0.00064	mg/L	0.000713	-0.00064	mg/L	0.000713	110.85%
Ti 334.940†	42362.4	0.0600	mg/L	0.00074	0.0600	mg/L	0.00074	1.24%
Tl 190.801†	123.5	0.0673	mg/L	0.00228	0.0673	mg/L	0.00228	3.38%
V 290.880†	6815.2	0.0482	mg/L	0.00134	0.0482	mg/L	0.00134	2.79%
Zn 206.200†	868.5	0.0270	mg/L	0.00013	0.0270	mg/L	0.00013	0.47%
K 766.490†	477152.9	178	mg/L	0.3	178	mg/L	0.3	0.19%
Na 589.592†	2058909.0	151	mg/L	0.7	151	mg/L	0.7	0.48%
Sr 407.771†	517247.6	0.478	mg/L	0.0080	0.478	mg/L	0.0080	1.68%
Li 670.784†	1236.5	0.0154	mg/L	0.00265	0.0154	mg/L	0.00265	17.19%

Sequence No.: 15 **Autosampler Location: 62**
Sample ID: L1102026608 **Date Collected: 2/21/2011 4:45:26 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026608

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026608

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5079777.6						59367.94	1.17%
YRADIAL	314066.0						6341.78	2.02%
Ga 417.206	1273758.5						20740.99	1.63%
GaRADIAL	61795.2						841.32	1.36%
Ag 328.068†	137.6	-0.00018	mg/L	0.000401	-0.00018	mg/L	0.000401	225.65%
Al 396.153†	4209.2	0.824	mg/L	0.0066	0.824	mg/L	0.0066	0.80%
As 188.979†	3.1	0.00267	mg/L	0.002531	0.00267	mg/L	0.002531	94.77%
Ba 233.527†	7198.7	0.126	mg/L	0.0014	0.126	mg/L	0.0014	1.12%
Be 234.861†	518.3	0.00006	mg/L	0.000087	0.00006	mg/L	0.000087	146.45%
B 249.677†	1873.3	0.0556	mg/L	0.00010	0.0556	mg/L	0.00010	0.17%
Ca 227.546†	2299.1	22.0	mg/L	0.38	22.0	mg/L	0.38	1.74%
Cd 228.802†	1.4	-0.00007	mg/L	0.000284	-0.00007	mg/L	0.000284	419.77%
Co 228.616†	1.9	-0.00012	mg/L	0.000107	-0.00012	mg/L	0.000107	92.75%
Cr 267.716†	230.2	0.00187	mg/L	0.000097	0.00187	mg/L	0.000097	5.18%

Approved: February 22, 2011

Pierre Morris

Cu 327.393†	-37.3	0.00045	mg/L	0.000285	0.00045	mg/L	0.000285 63.65%
Fe 239.562†	1934.4	4.25	mg/L	0.046	4.25	mg/L	0.046 1.09%
Mg 279.077†	1218.6	1.48	mg/L	0.028	1.48	mg/L	0.028 1.86%
Mn 257.610†	7422.3	0.0186	mg/L	0.00020	0.0186	mg/L	0.00020 1.09%
Mo 202.031†	5.1	0.00056	mg/L	0.000249	0.00056	mg/L	0.000249 44.09%
Ni 231.604†	21.7	0.00079	mg/L	0.000171	0.00079	mg/L	0.000171 21.76%
Pb 220.353†	2.5	-0.00067	mg/L	0.001009	-0.00067	mg/L	0.001009 149.96%
Sb 206.836†	5.6	0.00480	mg/L	0.001575	0.00480	mg/L	0.001575 32.85%
Se 196.026†	-22.7	-0.00814	mg/L	0.002135	-0.00814	mg/L	0.002135 26.24%
Si 251.611†	137586.8	4.09	mg/L	0.080	4.09	mg/L	0.080 1.96%
Sn 189.927†	6.6	0.00008	mg/L	0.000423	0.00008	mg/L	0.000423 545.58%
Ti 334.940†	9932.0	0.0140	mg/L	0.00225	0.0140	mg/L	0.00225 16.03%
Tl 190.801†	38.5	0.0234	mg/L	0.00288	0.0234	mg/L	0.00288 12.27%
V 290.880†	649.0	0.00512	mg/L	0.000398	0.00512	mg/L	0.000398 7.77%
Zn 206.200†	111.8	0.00343	mg/L	0.000119	0.00343	mg/L	0.000119 3.48%
K 766.490†	96110.7	36.0	mg/L	0.31	36.0	mg/L	0.31 0.87%
Na 589.592†	179012.2	13.0	mg/L	0.15	13.0	mg/L	0.15 1.16%
Sr 407.771†	59582.3	0.0550	mg/L	0.00416	0.0550	mg/L	0.00416 7.56%
Li 670.784†	27.5	0.00093	mg/L	0.000474	0.00093	mg/L	0.000474 51.03%

Sequence No.: 16 **Autosampler Location: 63**
Sample ID: L1102026609 **Date Collected: 2/21/2011 4:52:03 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026609

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026609

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5222911.4						62334.41	1.19%
YRADIAL	322767.8						6140.33	1.90%
Ga 417.206	1340433.7						23053.63	1.72%
GaRADIAL	63959.9						315.55	0.49%
Ag 328.068†	73.9	-0.00038	mg/L	0.000725	-0.00038	mg/L	0.000725	191.86%
Al 396.153†	735.0	0.147	mg/L	0.0021	0.147	mg/L	0.0021	1.42%
As 188.979†	3.1	0.00265	mg/L	0.002869	0.00265	mg/L	0.002869	108.14%
Ba 233.527†	1294.6	0.0223	mg/L	0.00026	0.0223	mg/L	0.00026	1.16%
Be 234.861†	290.9	0.00013	mg/L	0.000065	0.00013	mg/L	0.000065	48.85%
B 249.677†	975.5	0.0284	mg/L	0.00131	0.0284	mg/L	0.00131	4.63%
Ca 227.546†	689.9	6.62	mg/L	0.111	6.62	mg/L	0.111	1.68%
Cd 228.802†	0.8	-0.00010	mg/L	0.000083	-0.00010	mg/L	0.000083	83.19%
Co 228.616†	1.1	-0.00004	mg/L	0.000311	-0.00004	mg/L	0.000311	800.12%
Cr 267.716†	53.2	0.00031	mg/L	0.000086	0.00031	mg/L	0.000086	28.11%
Cu 327.393†	-14.3	0.00032	mg/L	0.000090	0.00032	mg/L	0.000090	28.06%
Fe 239.562†	860.1	1.89	mg/L	0.012	1.89	mg/L	0.012	0.64%
Mg 279.077†	354.0	0.442	mg/L	0.0046	0.442	mg/L	0.0046	1.04%
Mn 257.610†	3979.5	0.00956	mg/L	0.000117	0.00956	mg/L	0.000117	1.23%
Mo 202.031†	1.1	0.00014	mg/L	0.000309	0.00014	mg/L	0.000309	215.49%
Ni 231.604†	3.6	0.00025	mg/L	0.000261	0.00025	mg/L	0.000261	102.70%
Pb 220.353†	2.8	-0.00128	mg/L	0.000984	-0.00128	mg/L	0.000984	77.01%
Sb 206.836†	-0.2	0.00112	mg/L	0.001355	0.00112	mg/L	0.001355	120.61%
Se 196.026†	-5.6	-0.00052	mg/L	0.003316	-0.00052	mg/L	0.003316	641.42%
Si 251.611†	84477.0	2.51	mg/L	0.051	2.51	mg/L	0.051	2.03%
Sn 189.927†	0.9	-0.00093	mg/L	0.000091	-0.00093	mg/L	0.000091	9.74%
Ti 334.940†	1463.3	0.00212	mg/L	0.000256	0.00212	mg/L	0.000256	12.11%
Tl 190.801†	14.3	0.0100	mg/L	0.00076	0.0100	mg/L	0.00076	7.55%
V 290.880†	76.6	0.00104	mg/L	0.000953	0.00104	mg/L	0.000953	91.36%
Zn 206.200†	180.1	0.00562	mg/L	0.000121	0.00562	mg/L	0.000121	2.15%
K 766.490†	3747.5	1.38	mg/L	0.057	1.38	mg/L	0.057	4.16%
Na 589.592†	70565.1	5.11	mg/L	0.036	5.11	mg/L	0.036	0.71%
Sr 407.771†	28415.5	0.0264	mg/L	0.00192	0.0264	mg/L	0.00192	7.29%
Li 670.784†	28.0	0.00093	mg/L	0.001678	0.00093	mg/L	0.001678	179.79%

Sequence No.: 17 **Autosampler Location: 64**
Sample ID: L1102026610 **Date Collected: 2/21/2011 4:58:41 PM**

Approved: February 22, 2011

Pierre Morris

Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026610

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026610

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5164695.7						16604.07	0.32%
YRADIAL	313272.9						10798.26	3.45%
Ga 417.206	1301852.2						24365.12	1.87%
GaRADIAL	61932.1						1868.50	3.02%
Ag 328.068†	-52.4	-0.00105	mg/L	0.000331	-0.00105	mg/L	0.000331	31.38%
Al 396.153†	1902.3	0.375	mg/L	0.0238	0.375	mg/L	0.0238	6.35%
As 188.979†	2.6	0.00239	mg/L	0.001308	0.00239	mg/L	0.001308	54.78%
Ba 233.527†	1379.2	0.0238	mg/L	0.00015	0.0238	mg/L	0.00015	0.62%
Be 234.861†	445.1	0.00021	mg/L	0.000030	0.00021	mg/L	0.000030	14.07%
B 249.677†	874.9	0.0307	mg/L	0.00045	0.0307	mg/L	0.00045	1.46%
Ca 227.546†	424.5	4.10	mg/L	0.114	4.10	mg/L	0.114	2.78%
Cd 228.802†	2.9	0.00003	mg/L	0.000059	0.00003	mg/L	0.000059	201.29%
Co 228.616†	3.9	0.00007	mg/L	0.000111	0.00007	mg/L	0.000111	149.48%
Cr 267.716†	83.3	0.00057	mg/L	0.000136	0.00057	mg/L	0.000136	23.86%
Cu 327.393†	-22.2	0.00038	mg/L	0.000500	0.00038	mg/L	0.000500	131.52%
Fe 239.562†	1300.2	2.86	mg/L	0.078	2.86	mg/L	0.078	2.75%
Mg 279.077†	362.9	0.452	mg/L	0.0178	0.452	mg/L	0.0178	3.94%
Mn 257.610†	5038.4	0.0121	mg/L	0.00017	0.0121	mg/L	0.00017	1.43%
Mo 202.031†	-3.4	-0.00016	mg/L	0.000281	-0.00016	mg/L	0.000281	179.03%
Ni 231.604†	6.4	0.00034	mg/L	0.000103	0.00034	mg/L	0.000103	30.18%
Pb 220.353†	12.7	0.00035	mg/L	0.001479	0.00035	mg/L	0.001479	423.51%
Sb 206.836†	3.1	0.00326	mg/L	0.001679	0.00326	mg/L	0.001679	51.56%
Se 196.026†	1.3	0.00405	mg/L	0.003196	0.00405	mg/L	0.003196	78.99%
Si 251.611†	97554.7	2.90	mg/L	0.049	2.90	mg/L	0.049	1.68%
Sn 189.927†	4.5	-0.00030	mg/L	0.000522	-0.00030	mg/L	0.000522	176.64%
Ti 334.940†	5245.1	0.00735	mg/L	0.000790	0.00735	mg/L	0.000790	10.75%
Tl 190.801†	4.9	0.00463	mg/L	0.002740	0.00463	mg/L	0.002740	59.22%
V 290.880†	166.6	0.00173	mg/L	0.000837	0.00173	mg/L	0.000837	48.35%
Zn 206.200†	165.1	0.00513	mg/L	0.000215	0.00513	mg/L	0.000215	4.19%
K 766.490†	3675.2	1.35	mg/L	0.074	1.35	mg/L	0.074	5.46%
Na 589.592†	71826.0	5.20	mg/L	0.150	5.20	mg/L	0.150	2.89%
Sr 407.771†	17225.6	0.0159	mg/L	0.00108	0.0159	mg/L	0.00108	6.78%
Li 670.784†	-35.7	0.00017	mg/L	0.000732	0.00017	mg/L	0.000732	428.79%

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Sequence No.: 18 **Autosampler Location: 65**
Sample ID: L1102026611 **Date Collected: 2/21/2011 5:05:22 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026611

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026611

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4623185.9						17850.78	0.39%
YRADIAL	292512.7						3547.38	1.21%
Ga 417.206	1115584.4						7217.87	0.65%
GaRADIAL	56883.5						522.44	0.92%
Ag 328.068†	-31.8	-0.00656	mg/L	0.001034	-0.00656	mg/L	0.001034	15.77%
Al 396.153†	8498.9	1.67	mg/L	0.008	1.67	mg/L	0.008	0.50%
As 188.979†	35.8	0.0468	mg/L	0.00201	0.0468	mg/L	0.00201	4.29%
Ba 233.527†	8596.7	0.150	mg/L	0.0006	0.150	mg/L	0.0006	0.40%
Be 234.861†	13202.1	0.00062	mg/L	0.000629	0.00062	mg/L	0.000629	101.41%
B 249.677†	-9390.4	0.346	mg/L	0.0131	0.346	mg/L	0.0131	3.78%

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Ca 227.546†	11254.5	108	mg/L	0.7	108	mg/L	0.7	0.65%
Cd 228.802†	9.7	0.00019	mg/L	0.000146	0.00019	mg/L	0.000146	74.76%
Co 228.616†	210.4	0.00815	mg/L	0.000326	0.00815	mg/L	0.000326	4.00%
Cr 267.716†	2023.8	0.0177	mg/L	0.00012	0.0177	mg/L	0.00012	0.69%
Cu 327.393†	4799.6	0.0466	mg/L	0.00065	0.0466	mg/L	0.00065	1.40%
Fe 239.562†	51200.1	112	mg/L	1.1	112	mg/L	1.1	0.98%
Mg 279.077†	15417.7	18.5	mg/L	0.10	18.5	mg/L	0.10	0.56%
Mn 257.610†	290220.8	0.678	mg/L	0.0054	0.678	mg/L	0.0054	0.80%
Mo 202.031†	-19.4	0.00418	mg/L	0.001228	0.00418	mg/L	0.001228	29.38%
Ni 231.604†	556.0	0.0167	mg/L	0.00030	0.0167	mg/L	0.00030	1.79%
Pb 220.353†	-0.1	-0.00188	mg/L	0.002848	-0.00188	mg/L	0.002848	151.71%
Sb 206.836†	15.8	0.0112	mg/L	0.00296	0.0112	mg/L	0.00296	26.49%
Se 196.026†	-100.4	-0.00264	mg/L	0.004167	-0.00264	mg/L	0.004167	157.83%
Si 251.611†	1083540.4	32.2	mg/L	0.17	32.2	mg/L	0.17	0.53%
Sn 189.927†	-30.9	-0.00663	mg/L	0.000929	-0.00663	mg/L	0.000929	14.01%
Ti 334.940†	20450.2	0.0295	mg/L	0.00020	0.0295	mg/L	0.00020	0.67%
Tl 190.801†	119.5	0.0658	mg/L	0.00794	0.0658	mg/L	0.00794	12.06%
V 290.880†	3714.8	0.0343	mg/L	0.00127	0.0343	mg/L	0.00127	3.70%
Zn 206.200†	1576.8	0.0472	mg/L	0.00050	0.0472	mg/L	0.00050	1.06%
K 766.490†	214282.1	80.0	mg/L	0.46	80.0	mg/L	0.46	0.58%
Na 589.592†	2902747.3	214	mg/L	2.0	214	mg/L	2.0	0.92%
Sr 407.771†	578968.3	0.524	mg/L	0.0039	0.524	mg/L	0.0039	0.75%
Li 670.784†	887.3	0.0112	mg/L	0.00085	0.0112	mg/L	0.00085	7.54%

Sequence No.: 19 **Autosampler Location: 66**
Sample ID: L1102026612 W356433-01 **Date Collected: 2/21/2011 5:11:06 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026612 W356433-01

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102026612 W356433-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5125118.6						53701.54	1.05%
YRADIAL	305232.2						9106.86	2.98%
Ga 417.206	1329310.7						22111.28	1.66%
GaRADIAL	59978.5						1791.28	2.99%
Ag 328.068†	72.0	-0.00054	mg/L	0.000523	-0.00054	mg/L	0.000523	96.95%
Al 396.153†	1258.0	0.250	mg/L	0.0049	0.250	mg/L	0.0049	1.98%
As 188.979†	1.0	0.00120	mg/L	0.000602	0.00120	mg/L	0.000602	50.37%
Ba 233.527†	1218.1	0.0210	mg/L	0.00031	0.0210	mg/L	0.00031	1.48%
Be 234.861†	562.1	0.00000	mg/L	0.000065	0.00000	mg/L	0.000065	>999.9%
B 249.677†	931.9	0.0417	mg/L	0.00126	0.0417	mg/L	0.00126	3.03%
Ca 227.546†	291.9	2.84	mg/L	0.064	2.84	mg/L	0.064	2.26%
Cd 228.802†	0.4	-0.00011	mg/L	0.000018	-0.00011	mg/L	0.000018	17.07%
Co 228.616†	10.3	0.00037	mg/L	0.000120	0.00037	mg/L	0.000120	32.41%
Cr 267.716†	62.1	0.00037	mg/L	0.000103	0.00037	mg/L	0.000103	27.62%
Cu 327.393†	30.7	0.00099	mg/L	0.000190	0.00099	mg/L	0.000190	19.24%
Fe 239.562†	2252.1	4.95	mg/L	0.179	4.95	mg/L	0.179	3.62%
Mg 279.077†	1121.6	1.36	mg/L	0.052	1.36	mg/L	0.052	3.81%
Mn 257.610†	15001.6	0.0350	mg/L	0.00081	0.0350	mg/L	0.00081	2.33%
Mo 202.031†	-5.6	-0.00021	mg/L	0.000136	-0.00021	mg/L	0.000136	64.57%
Ni 231.604†	6.8	0.00035	mg/L	0.000140	0.00035	mg/L	0.000140	39.71%
Pb 220.353†	10.3	-0.00024	mg/L	0.001002	-0.00024	mg/L	0.001002	426.02%
Sb 206.836†	-0.6	0.00090	mg/L	0.001665	0.00090	mg/L	0.001665	185.23%
Se 196.026†	-2.2	0.00205	mg/L	0.000798	0.00205	mg/L	0.000798	39.00%
Si 251.611†	106723.9	3.17	mg/L	0.082	3.17	mg/L	0.082	2.58%
Sn 189.927†	0.8	-0.00096	mg/L	0.000762	-0.00096	mg/L	0.000762	79.65%
Ti 334.940†	3576.8	0.00502	mg/L	0.000837	0.00502	mg/L	0.000837	16.69%
Tl 190.801†	5.6	0.00516	mg/L	0.003194	0.00516	mg/L	0.003194	61.92%
V 290.880†	255.9	0.00250	mg/L	0.001286	0.00250	mg/L	0.001286	51.44%
Zn 206.200†	113.1	0.00344	mg/L	0.000094	0.00344	mg/L	0.000094	2.74%
K 766.490†	2394.9	0.870	mg/L	0.0346	0.870	mg/L	0.0346	3.98%
Na 589.592†	103134.7	7.47	mg/L	0.204	7.47	mg/L	0.204	2.73%
Sr 407.771†	22525.5	0.0205	mg/L	0.00084	0.0205	mg/L	0.00084	4.12%
Li 670.784†	26.2	0.00091	mg/L	0.000476	0.00091	mg/L	0.000476	52.19%

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Sequence No.: 20 **Autosampler Location: 67**
Sample ID: L1102026612S WG356433-04 **Date Collected: 2/21/2011 5:17:43 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026612S WG356433-04

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102026612S WG356433-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5034737.4						27388.66	0.54%
YRADIAL	304593.9						2956.18	0.97%
Ga 417.206	1265191.6						2099.84	0.17%
GaRADIAL	59644.3						1444.83	2.42%
Ag 328.068†	38325.2	0.191	mg/L	0.0007	0.191	mg/L	0.0007	0.35%
Al 396.153†	27441.7	5.34	mg/L	0.016	5.34	mg/L	0.016	0.31%
As 188.979†	202.9	0.190	mg/L	0.0018	0.190	mg/L	0.0018	0.95%
Ba 233.527†	29857.6	0.523	mg/L	0.0040	0.523	mg/L	0.0040	0.76%
Be 234.861†	13899.3	0.0238	mg/L	0.00015	0.0238	mg/L	0.00015	0.63%
B 249.677†	51493.6	0.999	mg/L	0.0006	0.999	mg/L	0.0006	0.06%
Ca 227.546†	813.7	7.98	mg/L	0.069	7.98	mg/L	0.069	0.86%
Cd 228.802†	413.3	0.0238	mg/L	0.00015	0.0238	mg/L	0.00015	0.62%
Co 228.616†	1899.5	0.100	mg/L	0.0003	0.100	mg/L	0.0003	0.28%
Cr 267.716†	27790.4	0.248	mg/L	0.0007	0.248	mg/L	0.0007	0.28%
Cu 327.393†	34816.5	0.244	mg/L	0.0024	0.244	mg/L	0.0024	0.98%
Fe 239.562†	3124.5	6.86	mg/L	0.145	6.86	mg/L	0.145	2.12%
Mg 279.077†	5273.7	6.36	mg/L	0.105	6.36	mg/L	0.105	1.65%
Mn 257.610†	124908.0	0.289	mg/L	0.0023	0.289	mg/L	0.0023	0.78%
Mo 202.031†	6500.8	0.495	mg/L	0.0029	0.495	mg/L	0.0029	0.59%
Ni 231.604†	8347.0	0.250	mg/L	0.0019	0.250	mg/L	0.0019	0.76%
Pb 220.353†	1440.7	0.261	mg/L	0.0016	0.261	mg/L	0.0016	0.60%
Sb 206.836†	898.7	0.576	mg/L	0.0022	0.576	mg/L	0.0022	0.38%
Se 196.026†	260.2	0.191	mg/L	0.0025	0.191	mg/L	0.0025	1.30%
Si 251.611†	196750.5	5.84	mg/L	0.032	5.84	mg/L	0.032	0.54%
Sn 189.927†	3038.1	0.542	mg/L	0.0030	0.542	mg/L	0.0030	0.55%
Ti 334.940†	373113.3	0.519	mg/L	0.0161	0.519	mg/L	0.0161	3.11%
Tl 190.801†	420.3	0.262	mg/L	0.0023	0.262	mg/L	0.0023	0.87%
V 290.880†	73003.3	0.498	mg/L	0.0038	0.498	mg/L	0.0038	0.77%
Zn 206.200†	15596.9	0.493	mg/L	0.0017	0.493	mg/L	0.0017	0.34%
K 766.490†	68525.5	25.6	mg/L	0.04	25.6	mg/L	0.04	0.17%
Na 589.592†	440686.8	32.0	mg/L	0.28	32.0	mg/L	0.28	0.87%
Sr 407.771†	564894.8	0.524	mg/L	0.0461	0.524	mg/L	0.0461	8.81%
Li 670.784†	42133.7	0.506	mg/L	0.0021	0.506	mg/L	0.0021	0.41%

Sequence No.: 21 **Autosampler Location: 68**
Sample ID: L1102026612SD WG356433-05 **Date Collected: 2/21/2011 5:24:22 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026612SD WG356433-05

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026612SD WG356433-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5045133.9						62250.70	1.23%
YRADIAL	314142.4						6248.56	1.99%
Ga 417.206	1257589.4						26145.93	2.08%
GaRADIAL	60607.3						547.10	0.90%
Ag 328.068†	37797.5	0.188	mg/L	0.0050	0.188	mg/L	0.0050	2.66%
Al 396.153†	27331.7	5.32	mg/L	0.018	5.32	mg/L	0.018	0.34%

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As 188.979†	201.9	0.189	mg/L	0.0066	0.189	mg/L	0.0066 3.51%
Ba 233.527†	29523.1	0.517	mg/L	0.0106	0.517	mg/L	0.0106 2.05%
Be 234.861†	13957.2	0.0240	mg/L	0.00068	0.0240	mg/L	0.00068 2.85%
B 249.677†	51069.3	0.990	mg/L	0.0269	0.990	mg/L	0.0269 2.72%
Ca 227.546†	808.0	7.93	mg/L	0.237	7.93	mg/L	0.237 2.99%
Cd 228.802†	414.9	0.0239	mg/L	0.00058	0.0239	mg/L	0.00058 2.41%
Co 228.616†	1895.7	0.0999	mg/L	0.00148	0.0999	mg/L	0.00148 1.48%
Cr 267.716†	27367.1	0.244	mg/L	0.0057	0.244	mg/L	0.0057 2.34%
Cu 327.393†	34069.0	0.239	mg/L	0.0070	0.239	mg/L	0.0070 2.91%
Fe 239.562†	3086.2	6.78	mg/L	0.046	6.78	mg/L	0.046 0.68%
Mg 279.077†	5191.7	6.27	mg/L	0.066	6.27	mg/L	0.066 1.05%
Mn 257.610†	124451.7	0.288	mg/L	0.0061	0.288	mg/L	0.0061 2.12%
Mo 202.031†	6428.5	0.490	mg/L	0.0129	0.490	mg/L	0.0129 2.64%
Ni 231.604†	8297.2	0.248	mg/L	0.0042	0.248	mg/L	0.0042 1.69%
Pb 220.353†	1423.4	0.258	mg/L	0.0030	0.258	mg/L	0.0030 1.15%
Sb 206.836†	904.3	0.580	mg/L	0.0110	0.580	mg/L	0.0110 1.90%
Se 196.026†	256.5	0.188	mg/L	0.0029	0.188	mg/L	0.0029 1.54%
Si 251.611†	195918.2	5.81	mg/L	0.033	5.81	mg/L	0.033 0.56%
Sn 189.927†	3019.2	0.539	mg/L	0.0067	0.539	mg/L	0.0067 1.23%
Ti 334.940†	361050.2	0.502	mg/L	0.0022	0.502	mg/L	0.0022 0.45%
Tl 190.801†	416.4	0.259	mg/L	0.0038	0.259	mg/L	0.0038 1.45%
V 290.880†	71763.3	0.490	mg/L	0.0091	0.490	mg/L	0.0091 1.86%
Zn 206.200†	15615.9	0.493	mg/L	0.0104	0.493	mg/L	0.0104 2.10%
K 766.490†	68532.2	25.6	mg/L	0.21	25.6	mg/L	0.21 0.84%
Na 589.592†	440738.8	32.0	mg/L	0.38	32.0	mg/L	0.38 1.19%
Sr 407.771†	558359.9	0.518	mg/L	0.0344	0.518	mg/L	0.0344 6.64%
Li 670.784†	42156.8	0.506	mg/L	0.0019	0.506	mg/L	0.0019 0.37%

Sequence No.: 22 **Autosampler Location: 69**
Sample ID: L1102026613 **Date Collected: 2/21/2011 5:31:03 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026613

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: L1102026613

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5085162.6						48666.66	0.96%
YRADIAL	308613.8						4137.12	1.34%
Ga 417.206	1316915.8						26665.80	2.02%
GaRADIAL	59723.8						984.72	1.65%
Ag 328.068†	450.2	0.00130	mg/L	0.000371	0.00130	mg/L	0.000371	28.52%
Al 396.153†	1396.4	0.276	mg/L	0.0053	0.276	mg/L	0.0053	1.92%
As 188.979†	7.2	0.00513	mg/L	0.001923	0.00513	mg/L	0.001923	37.49%
Ba 233.527†	1768.1	0.0306	mg/L	0.00048	0.0306	mg/L	0.00048	1.55%
Be 234.861†	457.8	0.00009	mg/L	0.000032	0.00009	mg/L	0.000032	33.67%
B 249.677†	2488.1	0.0648	mg/L	0.00154	0.0648	mg/L	0.00154	2.38%
Ca 227.546†	9162.4	87.4	mg/L	2.31	87.4	mg/L	2.31	2.65%
Cd 228.802†	-1.4	-0.00025	mg/L	0.000195	-0.00025	mg/L	0.000195	77.43%
Co 228.616†	-1.1	-0.00021	mg/L	0.000141	-0.00021	mg/L	0.000141	68.05%
Cr 267.716†	91.5	0.00060	mg/L	0.000030	0.00060	mg/L	0.000030	5.02%
Cu 327.393†	-379.2	-0.00202	mg/L	0.000490	-0.00202	mg/L	0.000490	24.24%
Fe 239.562†	1643.3	3.61	mg/L	0.041	3.61	mg/L	0.041	1.12%
Mg 279.077†	7119.5	8.59	mg/L	0.098	8.59	mg/L	0.098	1.14%
Mn 257.610†	48237.1	0.113	mg/L	0.0021	0.113	mg/L	0.0021	1.90%
Mo 202.031†	11.8	0.00106	mg/L	0.000464	0.00106	mg/L	0.000464	43.85%
Ni 231.604†	11.0	0.00044	mg/L	0.000271	0.00044	mg/L	0.000271	61.63%
Pb 220.353†	-3.0	0.00147	mg/L	0.000390	0.00147	mg/L	0.000390	26.50%
Sb 206.836†	11.4	0.00853	mg/L	0.001393	0.00853	mg/L	0.001393	16.34%
Se 196.026†	-34.7	-0.00055	mg/L	0.005841	-0.00055	mg/L	0.005841	>999.9%
Si 251.611†	345004.7	10.3	mg/L	0.15	10.3	mg/L	0.15	1.45%
Sn 189.927†	10.5	0.00078	mg/L	0.000732	0.00078	mg/L	0.000732	93.98%
Ti 334.940†	3128.8	0.00524	mg/L	0.001183	0.00524	mg/L	0.001183	22.58%
Tl 190.801†	106.8	0.0589	mg/L	0.00461	0.0589	mg/L	0.00461	7.83%
V 290.880†	-179.5	-0.00057	mg/L	0.000521	-0.00057	mg/L	0.000521	91.14%
Zn 206.200†	188.6	0.00585	mg/L	0.000147	0.00585	mg/L	0.000147	2.52%

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K 766.490†	11532.1	4.29	mg/L	0.018	4.29	mg/L	0.018 0.43%
Na 589.592†	173193.5	12.6	mg/L	0.12	12.6	mg/L	0.12 0.98%
Sr 407.771†	558737.9	0.519	mg/L	0.0366	0.519	mg/L	0.0366 7.06%
Li 670.784†	647.2	0.00836	mg/L	0.001585	0.00836	mg/L	0.001585 18.96%

Sequence No.: 23 **Autosampler Location: 70**
Sample ID: L1102026614 **Date Collected: 2/21/2011 5:37:46 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026614

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102026614

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5147282.4						86161.25	1.67%
YRADIAL	321602.1						4992.47	1.55%
Ga 417.206	1291028.8						32824.20	2.54%
GaRADIAL	63106.1						1810.52	2.87%
Ag 328.068†	110.4	-0.00033	mg/L	0.000206	-0.00033	mg/L	0.000206	61.95%
Al 396.153†	954.5	0.190	mg/L	0.0016	0.190	mg/L	0.0016	0.86%
As 188.979†	2.4	0.00209	mg/L	0.002630	0.00209	mg/L	0.002630	126.16%
Ba 233.527†	2894.9	0.0503	mg/L	0.00082	0.0503	mg/L	0.00082	1.63%
Be 234.861†	591.7	0.00023	mg/L	0.000009	0.00023	mg/L	0.000009	4.03%
B 249.677†	939.5	0.0377	mg/L	0.00052	0.0377	mg/L	0.00052	1.39%
Ca 227.546†	1833.3	17.5	mg/L	0.45	17.5	mg/L	0.45	2.55%
Cd 228.802†	-0.1	-0.00015	mg/L	0.000073	-0.00015	mg/L	0.000073	48.68%
Co 228.616†	-1.5	-0.00025	mg/L	0.000229	-0.00025	mg/L	0.000229	91.88%
Cr 267.716†	273.0	0.00225	mg/L	0.000006	0.00225	mg/L	0.000006	0.27%
Cu 327.393†	-20.9	0.00053	mg/L	0.000582	0.00053	mg/L	0.000582	110.47%
Fe 239.562†	1843.9	4.05	mg/L	0.110	4.05	mg/L	0.110	2.71%
Mg 279.077†	1402.6	1.70	mg/L	0.044	1.70	mg/L	0.044	2.57%
Mn 257.610†	24388.4	0.0585	mg/L	0.00099	0.0585	mg/L	0.00099	1.69%
Mo 202.031†	0.1	0.00018	mg/L	0.000301	0.00018	mg/L	0.000301	165.44%
Ni 231.604†	23.5	0.00084	mg/L	0.000271	0.00084	mg/L	0.000271	32.24%
Pb 220.353†	5.5	-0.00035	mg/L	0.000569	-0.00035	mg/L	0.000569	160.36%
Sb 206.836†	7.9	0.00628	mg/L	0.000546	0.00628	mg/L	0.000546	8.70%
Se 196.026†	-14.2	-0.00317	mg/L	0.004735	-0.00317	mg/L	0.004735	149.17%
Si 251.611†	429013.5	12.7	mg/L	0.06	12.7	mg/L	0.06	0.45%
Sn 189.927†	1.8	-0.00078	mg/L	0.000963	-0.00078	mg/L	0.000963	122.95%
Ti 334.940†	3900.7	0.00561	mg/L	0.000560	0.00561	mg/L	0.000560	9.98%
Tl 190.801†	36.0	0.0222	mg/L	0.00307	0.0222	mg/L	0.00307	13.79%
V 290.880†	397.8	0.00340	mg/L	0.000954	0.00340	mg/L	0.000954	28.09%
Zn 206.200†	183.2	0.00568	mg/L	0.000073	0.00568	mg/L	0.000073	1.28%
K 766.490†	27789.5	10.4	mg/L	0.04	10.4	mg/L	0.04	0.43%
Na 589.592†	144963.1	10.5	mg/L	0.06	10.5	mg/L	0.06	0.58%
Sr 407.771†	173283.1	0.161	mg/L	0.0135	0.161	mg/L	0.0135	8.42%
Li 670.784†	522.8	0.00687	mg/L	0.000814	0.00687	mg/L	0.000814	11.85%

Sequence No.: 24 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 5:44:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4968765.0						68135.76	1.37%
YRADIAL	299586.6						4848.40	1.62%

Approved: February 22, 2011

Pierre Morris

Ga 417.206	1202615.5				33328.86	2.77%
GaRADIAL	58592.3				1390.54	2.37%
Ag 328.068†	78916.8	0.395 mg/L	0.0099	0.395 mg/L	0.0099	2.51%
QC value within limits for Ag 328.068 Recovery = 98.65%						
Al 396.153†	52095.6	10.1 mg/L	0.01	10.1 mg/L	0.01	0.14%
QC value within limits for Al 396.153 Recovery = 101.37%						
As 188.979†	422.3	0.394 mg/L	0.0119	0.394 mg/L	0.0119	3.01%
QC value within limits for As 188.979 Recovery = 98.45%						
Ba 233.527†	57663.8	1.01 mg/L	0.016	1.01 mg/L	0.016	1.62%
QC value within limits for Ba 233.527 Recovery = 101.10%						
Be 234.861†	28207.8	0.0504 mg/L	0.00146	0.0504 mg/L	0.00146	2.90%
QC value within limits for Be 234.861 Recovery = 100.75%						
B 249.677†	26609.9	0.510 mg/L	0.0147	0.510 mg/L	0.0147	2.88%
QC value within limits for B 249.677 Recovery = 102.00%						
Ca 227.546†	1030.5	10.2 mg/L	0.19	10.2 mg/L	0.19	1.91%
QC value within limits for Ca 227.546 Recovery = 102.07%						
Cd 228.802†	867.0	0.0500 mg/L	0.00137	0.0500 mg/L	0.00137	2.75%
QC value within limits for Cd 228.802 Recovery = 100.00%						
Co 228.616†	3772.1	0.199 mg/L	0.0018	0.199 mg/L	0.0018	0.90%
QC value within limits for Co 228.616 Recovery = 99.50%						
Cr 267.716†	56102.2	0.501 mg/L	0.0073	0.501 mg/L	0.0073	1.46%
QC value within limits for Cr 267.716 Recovery = 100.25%						
Cu 327.393†	71598.4	0.501 mg/L	0.0119	0.501 mg/L	0.0119	2.38%
QC value within limits for Cu 327.393 Recovery = 100.23%						
Fe 239.562†	1829.8	4.02 mg/L	0.079	4.02 mg/L	0.079	1.96%
QC value within limits for Fe 239.562 Recovery = 100.47%						
Mg 279.077†	8261.0	9.96 mg/L	0.168	9.96 mg/L	0.168	1.69%
QC value within limits for Mg 279.077 Recovery = 99.64%						
Mn 257.610†	220122.3	0.508 mg/L	0.0080	0.508 mg/L	0.0080	1.58%
QC value within limits for Mn 257.610 Recovery = 101.59%						
Mo 202.031†	13178.2	1.00 mg/L	0.013	1.00 mg/L	0.013	1.29%
QC value within limits for Mo 202.031 Recovery = 100.40%						
Ni 231.604†	16786.0	0.502 mg/L	0.0085	0.502 mg/L	0.0085	1.69%
QC value within limits for Ni 231.604 Recovery = 100.44%						
Pb 220.353†	2876.5	0.523 mg/L	0.0043	0.523 mg/L	0.0043	0.83%
QC value within limits for Pb 220.353 Recovery = 104.62%						
Sb 206.836†	1851.1	1.18 mg/L	0.028	1.18 mg/L	0.028	2.34%
QC value within limits for Sb 206.836 Recovery = 98.75%						
Se 196.026†	553.8	0.399 mg/L	0.0053	0.399 mg/L	0.0053	1.32%
QC value within limits for Se 196.026 Recovery = 99.77%						
Si 251.611†	167737.9	4.97 mg/L	0.141	4.97 mg/L	0.141	2.84%
QC value within limits for Si 251.611 Recovery = 99.35%						
Sn 189.927†	5722.0	1.02 mg/L	0.011	1.02 mg/L	0.011	1.09%
QC value within limits for Sn 189.927 Recovery = 102.22%						
Ti 334.940†	719167.6	1.000 mg/L	0.0045	1.000 mg/L	0.0045	0.45%
QC value within limits for Ti 334.940 Recovery = 99.98%						
Tl 190.801†	823.9	0.512 mg/L	0.0048	0.512 mg/L	0.0048	0.93%
QC value within limits for Tl 190.801 Recovery = 102.30%						
V 290.880†	146936.5	1.00 mg/L	0.016	1.00 mg/L	0.016	1.60%
QC value within limits for V 290.880 Recovery = 100.13%						
Zn 206.200†	31946.6	1.01 mg/L	0.021	1.01 mg/L	0.021	2.08%
QC value within limits for Zn 206.200 Recovery = 100.92%						
K 766.490†	133721.8	50.0 mg/L	0.42	50.0 mg/L	0.42	0.85%
QC value within limits for K 766.490 Recovery = 100.08%						
Na 589.592†	682212.7	49.7 mg/L	0.29	49.7 mg/L	0.29	0.59%
QC value within limits for Na 589.592 Recovery = 99.37%						
Sr 407.771†	1101982.3	1.02 mg/L	0.057	1.02 mg/L	0.057	5.57%
QC value within limits for Sr 407.771 Recovery = 102.29%						
Li 670.784†	83876.9	1.01 mg/L	0.003	1.01 mg/L	0.003	0.33%
QC value within limits for Li 670.784 Recovery = 100.63%						

All analyte(s) passed QC.

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Sequence No.: 25 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 5:51:04 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Approved: February 22, 2011

Pierre Morris

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5156120.3						61784.98	1.20%
YRADIAL	309740.6						2584.97	0.83%
Ga 417.206	1259393.0						23221.67	1.84%
GaRADIAL	59923.1						626.81	1.05%
Ag 328.068†	-51.7	-0.00091	mg/L	0.000100	-0.00091	mg/L	0.000100	11.03%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-80.9	-0.0116	mg/L	0.00529	-0.0116	mg/L	0.00529	45.51%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.5	-0.00273	mg/L	0.001664	-0.00273	mg/L	0.001664	61.04%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	0.3	-0.00031	mg/L	0.000062	-0.00031	mg/L	0.000062	19.91%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	14.7	0.00003	mg/L	0.000009	0.00003	mg/L	0.000009	31.20%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	567.5	0.0121	mg/L	0.00020	0.0121	mg/L	0.00020	1.62%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	0.7	0.0477	mg/L	0.00653	0.0477	mg/L	0.00653	13.70%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	0.2	-0.00009	mg/L	0.000133	-0.00009	mg/L	0.000133	143.86%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	1.2	0.00003	mg/L	0.000302	0.00003	mg/L	0.000302	991.61%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	3.0	-0.00014	mg/L	0.000013	-0.00014	mg/L	0.000013	9.45%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-34.2	-0.00004	mg/L	0.000281	-0.00004	mg/L	0.000281	701.45%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	-1.2	0.00012	mg/L	0.001497	0.00012	mg/L	0.001497	>999.9%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	-12.6	0.00168	mg/L	0.009206	0.00168	mg/L	0.009206	546.76%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	16.4	-0.00014	mg/L	0.000006	-0.00014	mg/L	0.000006	4.14%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-2.3	-0.00022	mg/L	0.000311	-0.00022	mg/L	0.000311	143.97%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	7.1	0.00036	mg/L	0.000200	0.00036	mg/L	0.000200	55.14%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	4.0	-0.00130	mg/L	0.001477	-0.00130	mg/L	0.001477	113.57%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	0.0	0.00127	mg/L	0.000066	0.00127	mg/L	0.000066	5.20%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.6	0.00227	mg/L	0.004611	0.00227	mg/L	0.004611	202.89%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	37.2	-0.00219	mg/L	0.000424	-0.00219	mg/L	0.000424	19.40%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	7.0	0.00014	mg/L	0.000221	0.00014	mg/L	0.000221	155.37%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	28.1	0.00005	mg/L	0.000158	0.00005	mg/L	0.000158	291.39%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-0.3	0.00173	mg/L	0.001305	0.00173	mg/L	0.001305	75.24%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-190.4	-0.00092	mg/L	0.000402	-0.00092	mg/L	0.000402	43.71%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	3.3	0.00009	mg/L	0.000202	0.00009	mg/L	0.000202	216.28%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	147.7	0.0343	mg/L	0.02464	0.0343	mg/L	0.02464	71.90%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	384.0	0.0122	mg/L	0.00984	0.0122	mg/L	0.00984	80.52%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	29.0	0.00023	mg/L	0.000028	0.00023	mg/L	0.000028	12.08%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	-93.1	-0.00052	mg/L	0.000929	-0.00052	mg/L	0.000929	179.27%
QC value within limits for Li 670.784 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 26 **Autosampler Location: 3**
Sample ID: LLCCV **Date Collected: 2/21/2011 5:57:40 PM**
Analyst: PDM **Data Type: Original**

Approved: February 22, 2011

Pierre Morris

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5093659.1						82681.30	1.62%
YRADIAL	305030.0						4604.83	1.51%
Ga 417.206	1229371.2						28261.50	2.30%
GaRADIAL	59447.0						1577.25	2.65%
Ag 328.068†	1615.6	0.00744	mg/L	0.000421	0.00744	mg/L	0.000421	5.65%
Al 396.153†	1103.3	0.219	mg/L	0.0073	0.219	mg/L	0.0073	3.32%
As 188.979†	9.3	0.00835	mg/L	0.000502	0.00835	mg/L	0.000502	6.01%
Ba 233.527†	1205.7	0.0208	mg/L	0.00017	0.0208	mg/L	0.00017	0.80%
Be 234.861†	574.1	0.00103	mg/L	0.000008	0.00103	mg/L	0.000008	0.78%
B 249.677†	1000.4	0.0203	mg/L	0.00079	0.0203	mg/L	0.00079	3.91%
Ca 227.546†	16.6	0.206	mg/L	0.0360	0.206	mg/L	0.0360	17.43%
Cd 228.802†	20.6	0.00106	mg/L	0.000154	0.00106	mg/L	0.000154	14.53%
Co 228.616†	77.5	0.00405	mg/L	0.000295	0.00405	mg/L	0.000295	7.28%
Cr 267.716†	1217.8	0.0107	mg/L	0.00014	0.0107	mg/L	0.00014	1.35%
Cu 327.393†	1431.2	0.0102	mg/L	0.00049	0.0102	mg/L	0.00049	4.79%
Fe 239.562†	38.1	0.0863	mg/L	0.00699	0.0863	mg/L	0.00699	8.10%
Mg 279.077†	169.5	0.221	mg/L	0.0136	0.221	mg/L	0.0136	6.15%
Mn 257.610†	4627.6	0.0105	mg/L	0.00012	0.0105	mg/L	0.00012	1.12%
Mo 202.031†	270.8	0.0206	mg/L	0.00040	0.0206	mg/L	0.00040	1.96%
Ni 231.604†	355.4	0.0108	mg/L	0.00003	0.0108	mg/L	0.00003	0.31%
Pb 220.353†	75.7	0.0118	mg/L	0.00068	0.0118	mg/L	0.00068	5.76%
Sb 206.836†	38.4	0.0258	mg/L	0.00140	0.0258	mg/L	0.00140	5.40%
Se 196.026†	11.7	0.00949	mg/L	0.002738	0.00949	mg/L	0.002738	28.85%
Si 251.611†	4077.0	0.118	mg/L	0.0039	0.118	mg/L	0.0039	3.35%
Sn 189.927†	129.6	0.0221	mg/L	0.00037	0.0221	mg/L	0.00037	1.70%
Ti 334.940†	14865.6	0.0207	mg/L	0.00058	0.0207	mg/L	0.00058	2.80%
Tl 190.801†	10.7	0.00865	mg/L	0.001311	0.00865	mg/L	0.001311	15.16%
V 290.880†	3058.0	0.0212	mg/L	0.00029	0.0212	mg/L	0.00029	1.36%
Zn 206.200†	703.7	0.0222	mg/L	0.00040	0.0222	mg/L	0.00040	1.80%
K 766.490†	2826.1	1.04	mg/L	0.011	1.04	mg/L	0.011	1.04%
Na 589.592†	14989.1	1.07	mg/L	0.024	1.07	mg/L	0.024	2.27%
Sr 407.771†	22755.6	0.0213	mg/L	0.00131	0.0213	mg/L	0.00131	6.15%
Li 670.784†	1648.3	0.0204	mg/L	0.00016	0.0204	mg/L	0.00016	0.79%

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Sequence No.: 27 **Autosampler Location: 71**
Sample ID: L1102026615 **Date Collected: 2/21/2011 6:04:20 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026615

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102026615

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4949573.0						8570.21	0.17%
YRADIAL	304520.3						5555.30	1.82%
Ga 417.206	1265911.2						23000.02	1.82%
GaRADIAL	59730.9						88.08	0.15%
Ag 328.068†	496.2	0.00151	mg/L	0.000507	0.00151	mg/L	0.000507	33.52%
Al 396.153†	2176.2	0.428	mg/L	0.0058	0.428	mg/L	0.0058	1.35%
As 188.979†	13.3	0.0104	mg/L	0.00161	0.0104	mg/L	0.00161	15.47%
Ba 233.527†	3155.5	0.0549	mg/L	0.00029	0.0549	mg/L	0.00029	0.54%
Be 234.861†	443.9	0.00004	mg/L	0.000104	0.00004	mg/L	0.000104	262.63%
B 249.677†	2399.6	0.0636	mg/L	0.00098	0.0636	mg/L	0.00098	1.54%
Ca 227.546†	11979.4	114	mg/L	2.5	114	mg/L	2.5	2.17%

Approved: February 22, 2011

Pierce Morris

Cd 228.802†	3.0	-0.00003 mg/L	0.000060	-0.00003 mg/L	0.000060	182.25%
Co 228.616†	1.9	-0.00008 mg/L	0.000337	-0.00008 mg/L	0.000337	436.27%
Cr 267.716†	154.2	0.00117 mg/L	0.000046	0.00117 mg/L	0.000046	3.93%
Cu 327.393†	-123.9	-0.00021 mg/L	0.000864	-0.00021 mg/L	0.000864	407.65%
Fe 239.562†	1710.1	3.76 mg/L	0.028	3.76 mg/L	0.028	0.75%
Mg 279.077†	5990.0	7.23 mg/L	0.081	7.23 mg/L	0.081	1.12%
Mn 257.610†	38841.6	0.0916 mg/L	0.00082	0.0916 mg/L	0.00082	0.89%
Mo 202.031†	25.7	0.00212 mg/L	0.000352	0.00212 mg/L	0.000352	16.56%
Ni 231.604†	159.0	0.00486 mg/L	0.000081	0.00486 mg/L	0.000081	1.67%
Pb 220.353†	-7.6	0.00194 mg/L	0.000264	0.00194 mg/L	0.000264	13.65%
Sb 206.836†	11.7	0.00870 mg/L	0.000721	0.00870 mg/L	0.000721	8.29%
Se 196.026†	-42.7	0.00053 mg/L	0.003080	0.00053 mg/L	0.003080	586.39%
Si 251.611†	419399.4	12.5 mg/L	0.17	12.5 mg/L	0.17	1.35%
Sn 189.927†	6.2	0.00000 mg/L	0.001236	0.00000 mg/L	0.001236	>999.9%
Ti 334.940†	9450.1	0.0143 mg/L	0.00165	0.0143 mg/L	0.00165	11.55%
Tl 190.801†	119.5	0.0642 mg/L	0.00273	0.0642 mg/L	0.00273	4.26%
V 290.880†	312.0	0.00279 mg/L	0.000422	0.00279 mg/L	0.000422	15.16%
Zn 206.200†	1590.6	0.0500 mg/L	0.00018	0.0500 mg/L	0.00018	0.35%
K 766.490†	14380.8	5.36 mg/L	0.061	5.36 mg/L	0.061	1.15%
Na 589.592†	161143.7	11.7 mg/L	0.08	11.7 mg/L	0.08	0.71%
Sr 407.771†	656716.8	0.610 mg/L	0.0452	0.610 mg/L	0.0452	7.41%
Li 670.784†	989.0	0.0125 mg/L	0.00182	0.0125 mg/L	0.00182	14.61%

Sequence No.: 28 **Autosampler Location: 72**
Sample ID: L1102026616 **Date Collected: 2/21/2011 6:11:00 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102026616

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102026616

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4791686.6						36017.70	0.75%
YRADIAL	299873.0						1093.58	0.36%
Ga 417.206	1156557.1						18243.02	1.58%
GaRADIAL	56988.0						144.66	0.25%
Ag 328.068†	647.5	0.00105	mg/L	0.001323	0.00105	mg/L	0.001323	125.81%
Al 396.153†	9572.3	1.87	mg/L	0.022	1.87	mg/L	0.022	1.17%
As 188.979†	15.8	0.0164	mg/L	0.00336	0.0164	mg/L	0.00336	20.55%
Ba 233.527†	6481.0	0.113	mg/L	0.0008	0.113	mg/L	0.0008	0.74%
Be 234.861†	3561.2	0.00042	mg/L	0.000168	0.00042	mg/L	0.000168	40.22%
B 249.677†	-324.3	0.129	mg/L	0.0021	0.129	mg/L	0.0021	1.62%
Ca 227.546†	11660.9	111	mg/L	1.3	111	mg/L	1.3	1.15%
Cd 228.802†	11.1	0.00050	mg/L	0.000136	0.00050	mg/L	0.000136	27.24%
Co 228.616†	159.1	0.00754	mg/L	0.000250	0.00754	mg/L	0.000250	3.31%
Cr 267.716†	2893.9	0.0255	mg/L	0.00015	0.0255	mg/L	0.00015	0.58%
Cu 327.393†	11326.8	0.0826	mg/L	0.00216	0.0826	mg/L	0.00216	2.61%
Fe 239.562†	13325.3	29.3	mg/L	0.30	29.3	mg/L	0.30	1.04%
Mg 279.077†	10321.7	12.4	mg/L	0.13	12.4	mg/L	0.13	1.01%
Mn 257.610†	166840.1	0.390	mg/L	0.0058	0.390	mg/L	0.0058	1.50%
Mo 202.031†	33.9	0.00407	mg/L	0.000699	0.00407	mg/L	0.000699	17.17%
Ni 231.604†	1848.8	0.0554	mg/L	0.00020	0.0554	mg/L	0.00020	0.37%
Pb 220.353†	103.0	0.0206	mg/L	0.00054	0.0206	mg/L	0.00054	2.61%
Sb 206.836†	16.0	0.0113	mg/L	0.00384	0.0113	mg/L	0.00384	33.99%
Se 196.026†	-51.7	0.00251	mg/L	0.003825	0.00251	mg/L	0.003825	152.59%
Si 251.611†	877213.3	26.1	mg/L	0.30	26.1	mg/L	0.30	1.16%
Sn 189.927†	5.4	-0.00014	mg/L	0.000823	-0.00014	mg/L	0.000823	572.95%
Ti 334.940†	38912.2	0.0552	mg/L	0.00125	0.0552	mg/L	0.00125	2.27%
Tl 190.801†	130.6	0.0721	mg/L	0.00365	0.0721	mg/L	0.00365	5.06%
V 290.880†	3319.9	0.0252	mg/L	0.00073	0.0252	mg/L	0.00073	2.90%
Zn 206.200†	4333.9	0.136	mg/L	0.0011	0.136	mg/L	0.0011	0.81%
K 766.490†	185986.1	69.5	mg/L	0.46	69.5	mg/L	0.46	0.66%
Na 589.592†	1368040.0	100	mg/L	0.4	100	mg/L	0.4	0.40%
Sr 407.771†	324911.8	0.298	mg/L	0.0067	0.298	mg/L	0.0067	2.26%
Li 670.784†	1136.8	0.0142	mg/L	0.00069	0.0142	mg/L	0.00069	4.85%

Approved: February 22, 2011

Pierce Morris

Sequence No.: 29 **Autosampler Location: 73**
Sample ID: FBLK **Date Collected: 2/21/2011 6:16:43 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: FBLK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5193164.9						79790.73	1.54%
YRADIAL	326735.7						9848.37	3.01%
Ga 417.206	1336022.6						7674.65	0.57%
GaRADIAL	63904.7						1174.59	1.84%
Ag 328.068†	66.7	-0.00031	mg/L	0.000296	-0.00031	mg/L	0.000296	94.73%
Al 396.153†	-52.2	-0.00605	mg/L	0.013924	-0.00605	mg/L	0.013924	230.01%
As 188.979†	1.4	0.00096	mg/L	0.003754	0.00096	mg/L	0.003754	390.21%
Ba 233.527†	4.7	-0.00023	mg/L	0.000011	-0.00023	mg/L	0.000011	4.96%
Be 234.861†	75.5	0.00014	mg/L	0.000015	0.00014	mg/L	0.000015	10.77%
B 249.677†	99.1	0.00319	mg/L	0.000127	0.00319	mg/L	0.000127	3.98%
Ca 227.546†	3.3	0.0712	mg/L	0.04574	0.0712	mg/L	0.04574	64.24%
Cd 228.802†	-0.5	-0.00016	mg/L	0.000092	-0.00016	mg/L	0.000092	58.78%
Co 228.616†	3.2	0.00014	mg/L	0.000328	0.00014	mg/L	0.000328	236.68%
Cr 267.716†	-8.2	-0.00024	mg/L	0.000109	-0.00024	mg/L	0.000109	45.96%
Cu 327.393†	-20.7	0.00005	mg/L	0.000168	0.00005	mg/L	0.000168	304.88%
Fe 239.562†	-3.3	-0.00459	mg/L	0.001666	-0.00459	mg/L	0.001666	36.32%
Mg 279.077†	-15.0	-0.00124	mg/L	0.007631	-0.00124	mg/L	0.007631	617.43%
Mn 257.610†	-23.7	-0.00015	mg/L	0.000025	-0.00015	mg/L	0.000025	16.81%
Mo 202.031†	0.1	-0.00003	mg/L	0.000267	-0.00003	mg/L	0.000267	856.81%
Ni 231.604†	-2.1	0.00009	mg/L	0.000343	0.00009	mg/L	0.000343	393.98%
Pb 220.353†	4.5	-0.00120	mg/L	0.001057	-0.00120	mg/L	0.001057	87.76%
Sb 206.836†	-1.2	0.00050	mg/L	0.001215	0.00050	mg/L	0.001215	244.07%
Se 196.026†	-2.8	-0.00086	mg/L	0.003020	-0.00086	mg/L	0.003020	350.89%
Si 251.611†	15012.4	0.443	mg/L	0.0038	0.443	mg/L	0.0038	0.86%
Sn 189.927†	3.4	-0.00050	mg/L	0.000984	-0.00050	mg/L	0.000984	197.03%
Ti 334.940†	-63.5	-0.00007	mg/L	0.000121	-0.00007	mg/L	0.000121	166.39%
Tl 190.801†	-2.9	0.00019	mg/L	0.000376	0.00019	mg/L	0.000376	202.65%
V 290.880†	123.8	0.00122	mg/L	0.000609	0.00122	mg/L	0.000609	49.90%
Zn 206.200†	21.3	0.00066	mg/L	0.000104	0.00066	mg/L	0.000104	15.74%
K 766.490†	37.4	-0.00716	mg/L	0.010045	-0.00716	mg/L	0.010045	140.22%
Na 589.592†	615.1	0.0290	mg/L	0.00339	0.0290	mg/L	0.00339	11.69%
Sr 407.771†	10.8	0.00021	mg/L	0.000050	0.00021	mg/L	0.000050	23.69%
Li 670.784†	-121.7	-0.00086	mg/L	0.000285	-0.00086	mg/L	0.000285	33.06%

Sequence No.: 30 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 6:23:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4943227.4						69759.85	1.41%
YRADIAL	299342.9						4818.32	1.61%
Ga 417.206	1195370.9						15550.05	1.30%
GaRADIAL	58641.3						1813.49	3.09%
Ag 328.068†	79274.5	0.396	mg/L	0.0053	0.396	mg/L	0.0053	1.34%
QC value within limits for Ag 328.068 Recovery = 99.10%								
Al 396.153†	51801.8	10.1	mg/L	0.05	10.1	mg/L	0.05	0.48%

Approved: February 22, 2011

Pierre Morris

QC value within limits for Al 396.153 Recovery = 100.80%

As 188.979†	422.7	0.394 mg/L	0.0069	0.394 mg/L	0.0069	1.75%
QC value within limits for As 188.979 Recovery = 98.52%							
Ba 233.527†	57847.6	1.01 mg/L	0.017	1.01 mg/L	0.017	1.72%
QC value within limits for Ba 233.527 Recovery = 101.42%							
Be 234.861†	28211.6	0.0504 mg/L	0.00086	0.0504 mg/L	0.00086	1.70%
QC value within limits for Be 234.861 Recovery = 100.84%							
B 249.677†	26419.4	0.506 mg/L	0.0082	0.506 mg/L	0.0082	1.62%
QC value within limits for B 249.677 Recovery = 101.26%							
Ca 227.546†	1029.4	10.2 mg/L	0.12	10.2 mg/L	0.12	1.23%
QC value within limits for Ca 227.546 Recovery = 101.97%							
Cd 228.802†	867.0	0.0500 mg/L	0.00065	0.0500 mg/L	0.00065	1.30%
QC value within limits for Cd 228.802 Recovery = 100.00%							
Co 228.616†	3781.7	0.200 mg/L	0.0030	0.200 mg/L	0.0030	1.51%
QC value within limits for Co 228.616 Recovery = 99.76%							
Cr 267.716†	56283.7	0.503 mg/L	0.0083	0.503 mg/L	0.0083	1.64%
QC value within limits for Cr 267.716 Recovery = 100.57%							
Cu 327.393†	72053.8	0.504 mg/L	0.0072	0.504 mg/L	0.0072	1.43%
QC value within limits for Cu 327.393 Recovery = 100.86%							
Fe 239.562†	1811.7	3.98 mg/L	0.126	3.98 mg/L	0.126	3.16%
QC value within limits for Fe 239.562 Recovery = 99.48%							
Mg 279.077†	8198.1	9.89 mg/L	0.285	9.89 mg/L	0.285	2.88%
QC value within limits for Mg 279.077 Recovery = 98.89%							
Mn 257.610†	220562.4	0.509 mg/L	0.0086	0.509 mg/L	0.0086	1.69%
QC value within limits for Mn 257.610 Recovery = 101.79%							
Mo 202.031†	13432.3	1.02 mg/L	0.016	1.02 mg/L	0.016	1.52%
QC value within limits for Mo 202.031 Recovery = 102.33%							
Ni 231.604†	16804.2	0.503 mg/L	0.0107	0.503 mg/L	0.0107	2.12%
QC value within limits for Ni 231.604 Recovery = 100.55%							
Pb 220.353†	2884.6	0.525 mg/L	0.0084	0.525 mg/L	0.0084	1.60%
QC value within limits for Pb 220.353 Recovery = 104.93%							
Sb 206.836†	1853.7	1.19 mg/L	0.016	1.19 mg/L	0.016	1.33%
QC value within limits for Sb 206.836 Recovery = 98.90%							
Se 196.026†	556.4	0.401 mg/L	0.0091	0.401 mg/L	0.0091	2.26%
QC value within limits for Se 196.026 Recovery = 100.23%							
Si 251.611†	168838.8	5.00 mg/L	0.082	5.00 mg/L	0.082	1.64%
QC value within limits for Si 251.611 Recovery = 100.00%							
Sn 189.927†	5744.4	1.03 mg/L	0.016	1.03 mg/L	0.016	1.54%
QC value within limits for Sn 189.927 Recovery = 102.62%							
Ti 334.940†	712467.9	0.991 mg/L	0.0017	0.991 mg/L	0.0017	0.17%
QC value within limits for Ti 334.940 Recovery = 99.05%							
Tl 190.801†	832.5	0.517 mg/L	0.0094	0.517 mg/L	0.0094	1.82%
QC value within limits for Tl 190.801 Recovery = 103.31%							
V 290.880†	147167.7	1.00 mg/L	0.017	1.00 mg/L	0.017	1.70%
QC value within limits for V 290.880 Recovery = 100.29%							
Zn 206.200†	31969.9	1.01 mg/L	0.013	1.01 mg/L	0.013	1.27%
QC value within limits for Zn 206.200 Recovery = 100.99%							
K 766.490†	133461.7	49.9 mg/L	0.35	49.9 mg/L	0.35	0.70%
QC value within limits for K 766.490 Recovery = 99.89%							
Na 589.592†	678778.8	49.4 mg/L	0.78	49.4 mg/L	0.78	1.58%
QC value within limits for Na 589.592 Recovery = 98.87%							
Sr 407.771†	1087572.2	1.01 mg/L	0.090	1.01 mg/L	0.090	8.92%
QC value within limits for Sr 407.771 Recovery = 100.96%							
Li 670.784†	83006.3	0.996 mg/L	0.0098	0.996 mg/L	0.0098	0.99%
QC value within limits for Li 670.784 Recovery = 99.59%							

All analyte(s) passed QC.

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Sequence No.: 31 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 6:30:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD

Approved: February 22, 2011

Pierre Morris

Y 371.029	5181046.2					77184.48	1.49%
YRADIAL	310996.6					6367.12	2.05%
Ga 417.206	1251272.9					9955.18	0.80%
GaRADIAL	60205.6					392.86	0.65%
Ag 328.068†	-60.0	-0.00095 mg/L	0.000375	-0.00095 mg/L	0.000375	39.55%	
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153†	-55.3	-0.00665 mg/L	0.010159	-0.00665 mg/L	0.010159	152.80%	
QC value within limits for Al 396.153 Recovery = Not calculated							
As 188.979†	-0.8	-0.00111 mg/L	0.000971	-0.00111 mg/L	0.000971	87.26%	
QC value within limits for As 188.979 Recovery = Not calculated							
Ba 233.527†	5.7	-0.00022 mg/L	0.000125	-0.00022 mg/L	0.000125	58.18%	
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 234.861†	13.4	0.00003 mg/L	0.000039	0.00003 mg/L	0.000039	144.31%	
QC value within limits for Be 234.861 Recovery = Not calculated							
B 249.677†	243.2	0.00592 mg/L	0.000412	0.00592 mg/L	0.000412	6.97%	
QC value within limits for B 249.677 Recovery = Not calculated							
Ca 227.546†	-4.4	-0.00033 mg/L	0.021411	-0.00033 mg/L	0.021411	>999.9%	
QC value within limits for Ca 227.546 Recovery = Not calculated							
Cd 228.802†	0.4	-0.00010 mg/L	0.000138	-0.00010 mg/L	0.000138	143.91%	
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	1.4	0.00004 mg/L	0.000135	0.00004 mg/L	0.000135	345.56%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-4.9	-0.00021 mg/L	0.000079	-0.00021 mg/L	0.000079	38.10%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	-100.1	-0.00050 mg/L	0.000228	-0.00050 mg/L	0.000228	45.74%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 239.562†	-2.7	-0.00319 mg/L	0.001711	-0.00319 mg/L	0.001711	53.62%	
QC value within limits for Fe 239.562 Recovery = Not calculated							
Mg 279.077†	-14.0	-0.00006 mg/L	0.007404	-0.00006 mg/L	0.007404	>999.9%	
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	12.4	-0.00015 mg/L	0.000006	-0.00015 mg/L	0.000006	4.12%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.3	0.00014 mg/L	0.000164	0.00014 mg/L	0.000164	118.50%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	6.8	0.00036 mg/L	0.000258	0.00036 mg/L	0.000258	72.35%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	10.6	-0.00010 mg/L	0.000198	-0.00010 mg/L	0.000198	190.99%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	2.8	0.00303 mg/L	0.001759	0.00303 mg/L	0.001759	57.97%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.9	-0.00022 mg/L	0.003562	-0.00022 mg/L	0.003562	>999.9%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	154.1	0.00128 mg/L	0.000435	0.00128 mg/L	0.000435	33.87%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	9.3	0.00057 mg/L	0.000797	0.00057 mg/L	0.000797	140.44%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-115.9	-0.00015 mg/L	0.000237	-0.00015 mg/L	0.000237	161.79%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-5.1	-0.00120 mg/L	0.000659	-0.00120 mg/L	0.000659	55.14%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	-35.8	0.00013 mg/L	0.000542	0.00013 mg/L	0.000542	406.71%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	-1.8	-0.00007 mg/L	0.000196	-0.00007 mg/L	0.000196	291.52%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	124.6	0.0256 mg/L	0.04733	0.0256 mg/L	0.04733	185.00%	
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	445.9	0.0167 mg/L	0.00475	0.0167 mg/L	0.00475	28.42%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	-43.5	0.00016 mg/L	0.000022	0.00016 mg/L	0.000022	13.89%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	-104.2	-0.00065 mg/L	0.000606	-0.00065 mg/L	0.000606	93.17%	
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 32 **Autosampler Location: 3**
Sample ID: LLCCV **Date Collected: 2/21/2011 6:36:39 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LLCCV

Approved: February 22, 2011

Pierre Morris

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: LLCCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5128090.0						24069.23	0.47%
YRADIAL	310785.3						4583.82	1.47%
Ga 417.206	1249701.0						6718.73	0.54%
GaRADIAL	60169.2						83.74	0.14%
Ag 328.068†	1617.1	0.00745	mg/L	0.000435	0.00745	mg/L	0.000435	5.84%
Al 396.153†	1112.8	0.221	mg/L	0.0076	0.221	mg/L	0.0076	3.43%
As 188.979†	8.4	0.00743	mg/L	0.003437	0.00743	mg/L	0.003437	46.25%
Ba 233.527†	1190.0	0.0206	mg/L	0.00014	0.0206	mg/L	0.00014	0.69%
Be 234.861†	577.2	0.00103	mg/L	0.000016	0.00103	mg/L	0.000016	1.56%
B 249.677†	724.5	0.0152	mg/L	0.00037	0.0152	mg/L	0.00037	2.43%
Ca 227.546†	19.9	0.238	mg/L	0.0905	0.238	mg/L	0.0905	38.07%
Cd 228.802†	17.7	0.00091	mg/L	0.000105	0.00091	mg/L	0.000105	11.54%
Co 228.616†	80.9	0.00424	mg/L	0.000158	0.00424	mg/L	0.000158	3.73%
Cr 267.716†	1195.1	0.0105	mg/L	0.00004	0.0105	mg/L	0.00004	0.41%
Cu 327.393†	1355.5	0.00969	mg/L	0.000516	0.00969	mg/L	0.000516	5.33%
Fe 239.562†	40.9	0.0925	mg/L	0.00281	0.0925	mg/L	0.00281	3.04%
Mg 279.077†	170.4	0.222	mg/L	0.0018	0.222	mg/L	0.0018	0.81%
Mn 257.610†	4558.9	0.0104	mg/L	0.00016	0.0104	mg/L	0.00016	1.55%
Mo 202.031†	270.4	0.0206	mg/L	0.00018	0.0206	mg/L	0.00018	0.89%
Ni 231.604†	346.8	0.0105	mg/L	0.00018	0.0105	mg/L	0.00018	1.71%
Pb 220.353†	65.9	0.0100	mg/L	0.00186	0.0100	mg/L	0.00186	18.57%
Sb 206.836†	37.9	0.0255	mg/L	0.00134	0.0255	mg/L	0.00134	5.25%
Se 196.026†	11.7	0.00950	mg/L	0.005228	0.00950	mg/L	0.005228	55.03%
Si 251.611†	4128.6	0.119	mg/L	0.0046	0.119	mg/L	0.0046	3.89%
Sn 189.927†	121.4	0.0206	mg/L	0.00076	0.0206	mg/L	0.00076	3.67%
Ti 334.940†	14569.6	0.0203	mg/L	0.00013	0.0203	mg/L	0.00013	0.66%
Tl 190.801†	9.8	0.00809	mg/L	0.003094	0.00809	mg/L	0.003094	38.26%
V 290.880†	3030.7	0.0210	mg/L	0.00086	0.0210	mg/L	0.00086	4.08%
Zn 206.200†	692.9	0.0219	mg/L	0.00030	0.0219	mg/L	0.00030	1.36%
K 766.490†	2886.4	1.06	mg/L	0.033	1.06	mg/L	0.033	3.07%
Na 589.592†	14847.6	1.06	mg/L	0.005	1.06	mg/L	0.005	0.51%
Sr 407.771†	22709.1	0.0213	mg/L	0.00155	0.0213	mg/L	0.00155	7.29%
Li 670.784†	1698.3	0.0210	mg/L	0.00082	0.0210	mg/L	0.00082	3.91%

Sequence No.: 33 **Autosampler Location: 74**
Sample ID: PBW 6R WG356895-02 **Date Collected: 2/21/2011 6:43:17 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 6R WG356895-02

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: PBW 6R WG356895-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5165609.0						31951.93	0.62%
YRADIAL	303613.1						3437.24	1.13%
Ga 417.206	1278847.1						9558.60	0.75%
GaRADIAL	59694.2						1591.38	2.67%
Ag 328.068†	-68.9	-0.00099	mg/L	0.000422	-0.00099	mg/L	0.000422	42.62%
Al 396.153†	-76.2	-0.0107	mg/L	0.01443	-0.0107	mg/L	0.01443	134.52%
As 188.979†	-0.3	-0.00064	mg/L	0.001389	-0.00064	mg/L	0.001389	217.86%
Ba 233.527†	6.6	-0.00020	mg/L	0.000049	-0.00020	mg/L	0.000049	24.91%
Be 234.861†	26.0	0.00005	mg/L	0.000015	0.00005	mg/L	0.000015	31.52%
B 249.677†	119.2	0.00357	mg/L	0.000128	0.00357	mg/L	0.000128	3.58%
Ca 227.546†	-3.0	0.0127	mg/L	0.04496	0.0127	mg/L	0.04496	355.31%
Cd 228.802†	0.5	-0.00009	mg/L	0.000139	-0.00009	mg/L	0.000139	148.12%
Co 228.616†	-1.8	-0.00013	mg/L	0.000181	-0.00013	mg/L	0.000181	139.23%
Cr 267.716†	-0.8	-0.00017	mg/L	0.000018	-0.00017	mg/L	0.000018	10.45%
Cu 327.393†	-70.8	-0.00029	mg/L	0.000446	-0.00029	mg/L	0.000446	151.24%
Fe 239.562†	-3.1	-0.00400	mg/L	0.002663	-0.00400	mg/L	0.002663	66.59%

Approved: February 22, 2011

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Mg 279.077†	-12.6	0.00163	mg/L	0.008403	0.00163	mg/L	0.008403 515.87%
Mn 257.610†	-14.7	-0.00021	mg/L	0.000019	-0.00021	mg/L	0.000019 9.08%
Mo 202.031†	0.4	-0.00001	mg/L	0.000220	-0.00001	mg/L	0.000220 >999.9%
Ni 231.604†	2.3	0.00022	mg/L	0.000265	0.00022	mg/L	0.000265 119.99%
Pb 220.353†	7.9	-0.00059	mg/L	0.000909	-0.00059	mg/L	0.000909 154.00%
Sb 206.836†	-1.0	0.00062	mg/L	0.002969	0.00062	mg/L	0.002969 475.68%
Se 196.026†	1.0	0.00186	mg/L	0.002264	0.00186	mg/L	0.002264 121.52%
Si 251.611†	202.1	0.00271	mg/L	0.000117	0.00271	mg/L	0.000117 4.33%
Sn 189.927†	6.4	0.00004	mg/L	0.000589	0.00004	mg/L	0.000589 >999.9%
Ti 334.940†	-1.1	0.00001	mg/L	0.000273	0.00001	mg/L	0.000273 >999.9%
Tl 190.801†	-6.3	-0.00192	mg/L	0.001507	-0.00192	mg/L	0.001507 78.57%
V 290.880†	75.8	0.00089	mg/L	0.001012	0.00089	mg/L	0.001012 113.33%
Zn 206.200†	62.2	0.00195	mg/L	0.000093	0.00195	mg/L	0.000093 4.75%
K 766.490†	11.2	-0.0170	mg/L	0.03399	-0.0170	mg/L	0.03399 200.16%
Na 589.592†	327.7	0.00813	mg/L	0.005867	0.00813	mg/L	0.005867 72.18%
Sr 407.771†	73.1	0.00027	mg/L	0.000047	0.00027	mg/L	0.000047 17.59%
Li 670.784†	-61.7	-0.00014	mg/L	0.001879	-0.00014	mg/L	0.001879 >999.9%

Sequence No.: 34 **Autosampler Location: 75**
Sample ID: LCSW 6R WG356895-03 **Date Collected: 2/21/2011 6:49:56 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 6R WG356895-03

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: LCSW 6R WG356895-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5050806.3						47967.74	0.95%
YRADIAL	310199.3						12326.28	3.97%
Ga 417.206	1245125.2						9227.20	0.74%
GaRADIAL	60625.2						1536.50	2.53%
Ag 328.068†	39677.4	0.198	mg/L	0.0017	0.198	mg/L	0.0017	0.85%
Al 396.153†	26502.3	5.16	mg/L	0.004	5.16	mg/L	0.004	0.09%
As 188.979†	206.3	0.192	mg/L	0.0027	0.192	mg/L	0.0027	1.38%
Ba 233.527†	29301.1	0.514	mg/L	0.0044	0.514	mg/L	0.0044	0.87%
Be 234.861†	13989.3	0.0250	mg/L	0.00031	0.0250	mg/L	0.00031	1.24%
B 249.677†	52508.2	0.995	mg/L	0.0111	0.995	mg/L	0.0111	1.12%
Ca 227.546†	511.4	5.09	mg/L	0.046	5.09	mg/L	0.046	0.90%
Cd 228.802†	424.9	0.0245	mg/L	0.00025	0.0245	mg/L	0.00025	1.02%
Co 228.616†	1910.7	0.101	mg/L	0.0011	0.101	mg/L	0.0011	1.10%
Cr 267.716†	28345.8	0.253	mg/L	0.0023	0.253	mg/L	0.0023	0.89%
Cu 327.393†	35924.0	0.252	mg/L	0.0032	0.252	mg/L	0.0032	1.29%
Fe 239.562†	903.1	1.98	mg/L	0.073	1.98	mg/L	0.073	3.66%
Mg 279.077†	4144.3	5.01	mg/L	0.192	5.01	mg/L	0.192	3.83%
Mn 257.610†	113091.2	0.261	mg/L	0.0029	0.261	mg/L	0.0029	1.09%
Mo 202.031†	6640.8	0.506	mg/L	0.0019	0.506	mg/L	0.0019	0.37%
Ni 231.604†	8610.4	0.258	mg/L	0.0024	0.258	mg/L	0.0024	0.95%
Pb 220.353†	1456.0	0.264	mg/L	0.0049	0.264	mg/L	0.0049	1.86%
Sb 206.836†	923.6	0.592	mg/L	0.0056	0.592	mg/L	0.0056	0.94%
Se 196.026†	273.0	0.197	mg/L	0.0043	0.197	mg/L	0.0043	2.20%
Si 251.611†	86678.2	2.57	mg/L	0.025	2.57	mg/L	0.025	0.99%
Sn 189.927†	3127.5	0.558	mg/L	0.0048	0.558	mg/L	0.0048	0.85%
Ti 334.940†	361395.9	0.502	mg/L	0.0009	0.502	mg/L	0.0009	0.17%
Tl 190.801†	416.9	0.260	mg/L	0.0022	0.260	mg/L	0.0022	0.86%
V 290.880†	74286.6	0.506	mg/L	0.0058	0.506	mg/L	0.0058	1.14%
Zn 206.200†	16024.3	0.506	mg/L	0.0026	0.506	mg/L	0.0026	0.51%
K 766.490†	67233.6	25.2	mg/L	0.11	25.2	mg/L	0.11	0.44%
Na 589.592†	345690.5	25.1	mg/L	0.22	25.1	mg/L	0.22	0.86%
Sr 407.771†	570790.3	0.530	mg/L	0.0375	0.530	mg/L	0.0375	7.08%
Li 670.784†	42614.2	0.512	mg/L	0.0034	0.512	mg/L	0.0034	0.67%

Sequence No.: 35 **Autosampler Location: 76**
Sample ID: L1102044705 WG356895-01 **Date Collected: 2/21/2011 6:56:39 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Approved: February 22, 2011

Pierre Morris

Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102044705 WG356895-01

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102044705 WG356895-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5214259.2						44903.26	0.86%
YRADIAL	313358.5						3849.22	1.23%
Ga 417.206	1271156.8						25477.78	2.00%
GaRADIAL	60987.6						1374.70	2.25%
Ag 328.068†	-32.1	-0.00081	mg/L	0.000365	-0.00081	mg/L	0.000365	45.20%
Al 396.153†	-115.8	-0.0184	mg/L	0.02491	-0.0184	mg/L	0.02491	135.20%
As 188.979†	0.4	0.00001	mg/L	0.001592	0.00001	mg/L	0.001592	>999.9%
Ba 233.527†	2.4	-0.00027	mg/L	0.000043	-0.00027	mg/L	0.000043	15.87%
Be 234.861†	11.1	0.00002	mg/L	0.000028	0.00002	mg/L	0.000028	130.63%
B 249.677†	325.3	0.00750	mg/L	0.000286	0.00750	mg/L	0.000286	3.82%
Ca 227.546†	-3.9	0.00401	mg/L	0.064249	0.00401	mg/L	0.064249	>999.9%
Cd 228.802†	2.5	0.00002	mg/L	0.000170	0.00002	mg/L	0.000170	827.30%
Co 228.616†	-0.4	-0.00006	mg/L	0.000178	-0.00006	mg/L	0.000178	312.95%
Cr 267.716†	34.6	0.00015	mg/L	0.000103	0.00015	mg/L	0.000103	71.09%
Cu 327.393†	-48.1	-0.00014	mg/L	0.000445	-0.00014	mg/L	0.000445	328.23%
Fe 239.562†	-0.6	0.00136	mg/L	0.004942	0.00136	mg/L	0.004942	364.48%
Mg 279.077†	-15.3	-0.00154	mg/L	0.003197	-0.00154	mg/L	0.003197	207.80%
Mn 257.610†	-8.2	-0.00020	mg/L	0.000015	-0.00020	mg/L	0.000015	7.59%
Mo 202.031†	-1.4	-0.00015	mg/L	0.000084	-0.00015	mg/L	0.000084	57.28%
Ni 231.604†	8.6	0.00041	mg/L	0.000290	0.00041	mg/L	0.000290	70.66%
Pb 220.353†	4.9	-0.00113	mg/L	0.000753	-0.00113	mg/L	0.000753	66.44%
Sb 206.836†	1.0	0.00192	mg/L	0.001464	0.00192	mg/L	0.001464	76.44%
Se 196.026†	1.1	0.00189	mg/L	0.001640	0.00189	mg/L	0.001640	86.61%
Si 251.611†	99.0	-0.00035	mg/L	0.000646	-0.00035	mg/L	0.000646	183.82%
Sn 189.927†	6.9	0.00014	mg/L	0.000434	0.00014	mg/L	0.000434	318.77%
Ti 334.940†	-75.9	-0.00009	mg/L	0.000256	-0.00009	mg/L	0.000256	281.59%
Tl 190.801†	-7.5	-0.00261	mg/L	0.001882	-0.00261	mg/L	0.001882	72.26%
V 290.880†	23.3	0.00054	mg/L	0.001072	0.00054	mg/L	0.001072	199.97%
Zn 206.200†	43.4	0.00136	mg/L	0.000177	0.00136	mg/L	0.000177	13.05%
K 766.490†	61.1	0.00175	mg/L	0.020986	0.00175	mg/L	0.020986	>999.9%
Na 589.592†	296.2	0.00585	mg/L	0.000986	0.00585	mg/L	0.000986	16.87%
Sr 407.771†	76.2	0.00027	mg/L	0.000047	0.00027	mg/L	0.000047	17.42%
Li 670.784†	-137.1	-0.00104	mg/L	0.000762	-0.00104	mg/L	0.000762	72.93%

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Sequence No.: 36 **Autosampler Location: 77**
Sample ID: L1102044705PS WG356956-03 **Date Collected: 2/21/2011 7:03:20 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102044705PS WG356956-03

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102044705PS WG356956-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4989669.5						28922.90	0.58%
YRADIAL	302123.4						4933.62	1.63%
Ga 417.206	1228934.9						18896.93	1.54%
GaRADIAL	59487.2						942.42	1.58%
Ag 328.068†	39959.3	0.199	mg/L	0.0105	0.199	mg/L	0.0105	5.28%
Al 396.153†	27957.2	5.44	mg/L	0.044	5.44	mg/L	0.044	0.80%
As 188.979†	203.7	0.190	mg/L	0.0089	0.190	mg/L	0.0089	4.71%
Ba 233.527†	29467.4	0.516	mg/L	0.0253	0.516	mg/L	0.0253	4.89%
Be 234.861†	13963.4	0.0249	mg/L	0.00147	0.0249	mg/L	0.00147	5.92%
B 249.677†	53177.6	1.01	mg/L	0.053	1.01	mg/L	0.053	5.21%
Ca 227.546†	504.3	5.03	mg/L	0.207	5.03	mg/L	0.207	4.11%
Cd 228.802†	420.8	0.0242	mg/L	0.00135	0.0242	mg/L	0.00135	5.55%

Approved: February 22, 2011

Pierre Morris

Co 228.616†	1893.2	0.0998	mg/L	0.00372	0.0998	mg/L	0.00372 3.72%
Cr 267.716†	28699.5	0.256	mg/L	0.0134	0.256	mg/L	0.0134 5.21%
Cu 327.393†	36034.3	0.252	mg/L	0.0139	0.252	mg/L	0.0139 5.53%
Fe 239.562†	998.1	2.19	mg/L	0.039	2.19	mg/L	0.039 1.76%
Mg 279.077†	4562.6	5.51	mg/L	0.090	5.51	mg/L	0.090 1.63%
Mn 257.610†	113731.7	0.262	mg/L	0.0136	0.262	mg/L	0.0136 5.18%
Mo 202.031†	6705.8	0.511	mg/L	0.0246	0.511	mg/L	0.0246 4.81%
Ni 231.604†	8615.6	0.258	mg/L	0.0136	0.258	mg/L	0.0136 5.28%
Pb 220.353†	1451.1	0.263	mg/L	0.0092	0.263	mg/L	0.0092 3.51%
Sb 206.836†	912.3	0.585	mg/L	0.0250	0.585	mg/L	0.0250 4.28%
Se 196.026†	272.7	0.197	mg/L	0.0088	0.197	mg/L	0.0088 4.47%
Si 251.611†	86485.4	2.56	mg/L	0.149	2.56	mg/L	0.149 5.82%
Sn 189.927†	-4.8	-0.00196	mg/L	0.000440	-0.00196	mg/L	0.000440 22.43%
Ti 334.940†	362703.8	0.504	mg/L	0.0320	0.504	mg/L	0.0320 6.35%
Tl 190.801†	417.3	0.260	mg/L	0.0119	0.260	mg/L	0.0119 4.58%
V 290.880†	74602.9	0.509	mg/L	0.0247	0.509	mg/L	0.0247 4.87%
Zn 206.200†	16215.3	0.512	mg/L	0.0308	0.512	mg/L	0.0308 6.02%
K 766.490†	71252.8	26.7	mg/L	0.06	26.7	mg/L	0.06 0.23%
Na 589.592†	366631.3	26.6	mg/L	0.55	26.6	mg/L	0.55 2.06%
Sr 407.771†	593705.8	0.551	mg/L	0.0469	0.551	mg/L	0.0469 8.52%
Li 670.784†	44999.6	0.540	mg/L	0.0009	0.540	mg/L	0.0009 0.17%

Sequence No.: 37 **Autosampler Location: 78**
Sample ID: L1102044705DL WG356956-04 **Date Collected: 2/21/2011 7:10:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102044705DL WG356956-04

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102044705DL WG356956-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5213286.7						72638.03	1.39%
YRADIAL	307564.5						1511.74	0.49%
Ga 417.206	1254250.5						5690.68	0.45%
GaRADIAL	59724.0						1368.57	2.29%
Ag 328.068†	27.5	-0.00051	mg/L	0.000758	-0.00051	mg/L	0.000758	148.64%
Al 396.153†	72.6	0.0183	mg/L	0.02057	0.0183	mg/L	0.02057	112.68%
As 188.979†	-1.2	-0.00152	mg/L	0.003045	-0.00152	mg/L	0.003045	199.77%
Ba 233.527†	2.3	-0.00027	mg/L	0.000066	-0.00027	mg/L	0.000066	24.03%
Be 234.861†	4.7	0.00001	mg/L	0.000027	0.00001	mg/L	0.000027	300.25%
B 249.677†	567.5	0.0121	mg/L	0.00018	0.0121	mg/L	0.00018	1.46%
Ca 227.546†	-0.2	0.0389	mg/L	0.04003	0.0389	mg/L	0.04003	102.78%
Cd 228.802†	1.8	-0.00001	mg/L	0.000086	-0.00001	mg/L	0.000086	721.94%
Co 228.616†	-1.6	-0.00012	mg/L	0.000069	-0.00012	mg/L	0.000069	58.28%
Cr 267.716†	-2.4	-0.00019	mg/L	0.000046	-0.00019	mg/L	0.000046	24.75%
Cu 327.393†	1.6	0.00021	mg/L	0.000436	0.00021	mg/L	0.000436	206.44%
Fe 239.562†	2.5	0.00835	mg/L	0.002072	0.00835	mg/L	0.002072	24.81%
Mg 279.077†	6.6	0.0248	mg/L	0.00676	0.0248	mg/L	0.00676	27.25%
Mn 257.610†	0.8	-0.00017	mg/L	0.000014	-0.00017	mg/L	0.000014	7.99%
Mo 202.031†	-0.6	-0.00009	mg/L	0.000127	-0.00009	mg/L	0.000127	146.10%
Ni 231.604†	4.1	0.00027	mg/L	0.000096	0.00027	mg/L	0.000096	35.17%
Pb 220.353†	3.5	-0.00138	mg/L	0.001713	-0.00138	mg/L	0.001713	123.75%
Sb 206.836†	0.5	0.00157	mg/L	0.000969	0.00157	mg/L	0.000969	61.73%
Se 196.026†	-1.3	0.00016	mg/L	0.002933	0.00016	mg/L	0.002933	>999.9%
Si 251.611†	747.2	0.0189	mg/L	0.00028	0.0189	mg/L	0.00028	1.49%
Sn 189.927†	5.9	-0.00004	mg/L	0.000479	-0.00004	mg/L	0.000479	>999.9%
Ti 334.940†	-10.0	0.00000	mg/L	0.000038	0.00000	mg/L	0.000038	>999.9%
Tl 190.801†	-3.2	-0.00005	mg/L	0.000878	-0.00005	mg/L	0.000878	>999.9%
V 290.880†	2.4	0.00039	mg/L	0.001052	0.00039	mg/L	0.001052	266.59%
Zn 206.200†	56.4	0.00177	mg/L	0.000062	0.00177	mg/L	0.000062	3.52%
K 766.490†	84.5	0.0105	mg/L	0.04239	0.0105	mg/L	0.04239	402.30%
Na 589.592†	374.6	0.0115	mg/L	0.00390	0.0115	mg/L	0.00390	33.79%
Sr 407.771†	93.5	0.00029	mg/L	0.000043	0.00029	mg/L	0.000043	15.08%
Li 670.784†	-111.0	-0.00073	mg/L	0.000218	-0.00073	mg/L	0.000218	29.84%

Approved: February 22, 2011

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Sequence No.: 38
Sample ID: L1102044705S WG356895-04
Analyst: PDM
Initial Sample Wt:
Dilution:
Autosampler Location: 79
Date Collected: 2/21/2011 7:16:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1102044705S WG356895-04

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102044705S WG356895-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5055854.8						45373.84	0.90%
YRADIAL	308321.7						3497.23	1.13%
Ga 417.206	1244859.5						14770.21	1.19%
GaRADIAL	60073.9						761.75	1.27%
Ag 328.068†	38917.9	0.194	mg/L	0.0044	0.194	mg/L	0.0044	2.28%
Al 396.153†	26090.5	5.08	mg/L	0.039	5.08	mg/L	0.039	0.76%
As 188.979†	205.7	0.192	mg/L	0.0014	0.192	mg/L	0.0014	0.71%
Ba 233.527†	28858.2	0.506	mg/L	0.0082	0.506	mg/L	0.0082	1.61%
Be 234.861†	13737.8	0.0245	mg/L	0.00059	0.0245	mg/L	0.00059	2.41%
B 249.677†	51784.5	0.982	mg/L	0.0221	0.982	mg/L	0.0221	2.25%
Ca 227.546†	497.3	4.95	mg/L	0.047	4.95	mg/L	0.047	0.95%
Cd 228.802†	426.1	0.0245	mg/L	0.00031	0.0245	mg/L	0.00031	1.26%
Co 228.616†	1887.7	0.0996	mg/L	0.00065	0.0996	mg/L	0.00065	0.65%
Cr 267.716†	27805.1	0.248	mg/L	0.0039	0.248	mg/L	0.0039	1.55%
Cu 327.393†	35155.8	0.246	mg/L	0.0056	0.246	mg/L	0.0056	2.29%
Fe 239.562†	908.2	2.00	mg/L	0.028	2.00	mg/L	0.028	1.42%
Mg 279.077†	4163.2	5.03	mg/L	0.050	5.03	mg/L	0.050	1.00%
Mn 257.610†	110825.1	0.256	mg/L	0.0042	0.256	mg/L	0.0042	1.62%
Mo 202.031†	6592.7	0.502	mg/L	0.0089	0.502	mg/L	0.0089	1.77%
Ni 231.604†	8448.9	0.253	mg/L	0.0054	0.253	mg/L	0.0054	2.13%
Pb 220.353†	1444.5	0.262	mg/L	0.0032	0.262	mg/L	0.0032	1.21%
Sb 206.836†	909.2	0.583	mg/L	0.0046	0.583	mg/L	0.0046	0.79%
Se 196.026†	268.7	0.194	mg/L	0.0044	0.194	mg/L	0.0044	2.27%
Si 251.611†	84857.4	2.51	mg/L	0.064	2.51	mg/L	0.064	2.56%
Sn 189.927†	3026.7	0.540	mg/L	0.0047	0.540	mg/L	0.0047	0.87%
Ti 334.940†	357168.1	0.497	mg/L	0.0022	0.497	mg/L	0.0022	0.44%
Tl 190.801†	414.9	0.258	mg/L	0.0059	0.258	mg/L	0.0059	2.29%
V 290.880†	72787.4	0.496	mg/L	0.0077	0.496	mg/L	0.0077	1.55%
Zn 206.200†	15751.7	0.498	mg/L	0.0057	0.498	mg/L	0.0057	1.15%
K 766.490†	65993.5	24.7	mg/L	0.24	24.7	mg/L	0.24	0.96%
Na 589.592†	339142.4	24.6	mg/L	0.27	24.6	mg/L	0.27	1.11%
Sr 407.771†	538987.4	0.500	mg/L	0.0351	0.500	mg/L	0.0351	7.00%
Li 670.784†	41708.7	0.501	mg/L	0.0051	0.501	mg/L	0.0051	1.02%

Sequence No.: 39
Sample ID: L1102044705SD WG356895-05
Analyst: PDM
Initial Sample Wt:
Dilution:
Autosampler Location: 80
Date Collected: 2/21/2011 7:23:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: L1102044705SD WG356895-05

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102044705SD WG356895-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5076767.2						30048.03	0.59%
YRADIAL	311595.8						3615.74	1.16%
Ga 417.206	1238441.6						15067.39	1.22%
GaRADIAL	60513.5						1690.11	2.79%
Ag 328.068†	39379.6	0.197	mg/L	0.0014	0.197	mg/L	0.0014	0.69%
Al 396.153†	26125.1	5.09	mg/L	0.020	5.09	mg/L	0.020	0.40%
As 188.979†	202.9	0.189	mg/L	0.0016	0.189	mg/L	0.0016	0.82%
Ba 233.527†	28833.0	0.505	mg/L	0.0066	0.505	mg/L	0.0066	1.30%

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Be 234.861†	13847.3	0.0247 mg/L	0.00017	0.0247 mg/L	0.00017	0.70%
B 249.677†	52560.0	0.996 mg/L	0.0090	0.996 mg/L	0.0090	0.90%
Ca 227.546†	495.9	4.94 mg/L	0.052	4.94 mg/L	0.052	1.06%
Cd 228.802†	423.5	0.0244 mg/L	0.00045	0.0244 mg/L	0.00045	1.84%
Co 228.616†	1886.8	0.0995 mg/L	0.00018	0.0995 mg/L	0.00018	0.18%
Cr 267.716†	27963.0	0.250 mg/L	0.0029	0.250 mg/L	0.0029	1.15%
Cu 327.393†	35502.9	0.249 mg/L	0.0014	0.249 mg/L	0.0014	0.57%
Fe 239.562†	901.3	1.98 mg/L	0.045	1.98 mg/L	0.045	2.27%
Mg 279.077†	4127.2	4.99 mg/L	0.099	4.99 mg/L	0.099	1.98%
Mn 257.610†	111174.5	0.257 mg/L	0.0033	0.257 mg/L	0.0033	1.27%
Mo 202.031†	6570.3	0.501 mg/L	0.0073	0.501 mg/L	0.0073	1.45%
Ni 231.604†	8347.2	0.250 mg/L	0.0040	0.250 mg/L	0.0040	1.61%
Pb 220.353†	1448.9	0.262 mg/L	0.0022	0.262 mg/L	0.0022	0.84%
Sb 206.836†	921.3	0.590 mg/L	0.0063	0.590 mg/L	0.0063	1.07%
Se 196.026†	268.3	0.194 mg/L	0.0025	0.194 mg/L	0.0025	1.31%
Si 251.611†	85587.0	2.53 mg/L	0.024	2.53 mg/L	0.024	0.94%
Sn 189.927†	2983.3	0.532 mg/L	0.0034	0.532 mg/L	0.0034	0.64%
Ti 334.940†	362121.7	0.503 mg/L	0.0025	0.503 mg/L	0.0025	0.50%
Tl 190.801†	419.1	0.261 mg/L	0.0038	0.261 mg/L	0.0038	1.44%
V 290.880†	73071.9	0.498 mg/L	0.0064	0.498 mg/L	0.0064	1.28%
Zn 206.200†	15802.3	0.499 mg/L	0.0104	0.499 mg/L	0.0104	2.08%
K 766.490†	66171.7	24.8 mg/L	0.06	24.8 mg/L	0.06	0.23%
Na 589.592†	342723.1	24.9 mg/L	0.27	24.9 mg/L	0.27	1.06%
Sr 407.771†	546082.6	0.507 mg/L	0.0421	0.507 mg/L	0.0421	8.31%
Li 670.784†	41927.8	0.503 mg/L	0.0018	0.503 mg/L	0.0018	0.35%

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Sequence No.: 40 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 7:30:04 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4922574.5						50622.03	1.03%
YRADIAL	302484.3						6393.95	2.11%
Ga 417.206	1182649.2						14433.12	1.22%
GaRADIAL	59271.1						357.42	0.60%
Ag 328.068†	80871.9	0.404	mg/L	0.0060	0.404	mg/L	0.0060	1.49%
QC value within limits for Ag 328.068 Recovery = 101.10%								
Al 396.153†	51873.5	10.1	mg/L	0.06	10.1	mg/L	0.06	0.62%
QC value within limits for Al 396.153 Recovery = 100.94%								
As 188.979†	420.9	0.392	mg/L	0.0080	0.392	mg/L	0.0080	2.03%
QC value within limits for As 188.979 Recovery = 98.10%								
Ba 233.527†	58575.0	1.03	mg/L	0.007	1.03	mg/L	0.007	0.69%
QC value within limits for Ba 233.527 Recovery = 102.70%								
Be 234.861†	28828.4	0.0515	mg/L	0.00050	0.0515	mg/L	0.00050	0.98%
QC value within limits for Be 234.861 Recovery = 103.01%								
B 249.677†	27885.0	0.534	mg/L	0.0092	0.534	mg/L	0.0092	1.72%
QC value within limits for B 249.677 Recovery = 106.74%								
Ca 227.546†	1036.5	10.3	mg/L	0.12	10.3	mg/L	0.12	1.13%
QC value within limits for Ca 227.546 Recovery = 102.71%								
Cd 228.802†	869.0	0.0501	mg/L	0.00057	0.0501	mg/L	0.00057	1.14%
QC value within limits for Cd 228.802 Recovery = 100.28%								
Co 228.616†	3791.7	0.200	mg/L	0.0018	0.200	mg/L	0.0018	0.92%
QC value within limits for Co 228.616 Recovery = 100.02%								
Cr 267.716†	56981.8	0.509	mg/L	0.0038	0.509	mg/L	0.0038	0.75%
QC value within limits for Cr 267.716 Recovery = 101.82%								
Cu 327.393†	73354.9	0.513	mg/L	0.0078	0.513	mg/L	0.0078	1.52%
QC value within limits for Cu 327.393 Recovery = 102.67%								
Fe 239.562†	1792.3	3.94	mg/L	0.049	3.94	mg/L	0.049	1.25%
QC value within limits for Fe 239.562 Recovery = 98.41%								
Mg 279.077†	8102.9	9.77	mg/L	0.151	9.77	mg/L	0.151	1.55%
QC value within limits for Mg 279.077 Recovery = 97.74%								
Mn 257.610†	223645.2	0.516	mg/L	0.0036	0.516	mg/L	0.0036	0.71%

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QC value within limits for Mn 257.610 Recovery = 103.21%
Mo 202.031† 13354.6 1.02 mg/L 0.007 1.02 mg/L 0.007 0.67%
QC value within limits for Mo 202.031 Recovery = 101.74%
Ni 231.604† 17082.2 0.511 mg/L 0.0061 0.511 mg/L 0.0061 1.20%
QC value within limits for Ni 231.604 Recovery = 102.22%
Pb 220.353† 2879.6 0.524 mg/L 0.0053 0.524 mg/L 0.0053 1.01%
QC value within limits for Pb 220.353 Recovery = 104.75%
Sb 206.836† 1869.3 1.20 mg/L 0.016 1.20 mg/L 0.016 1.34%
QC value within limits for Sb 206.836 Recovery = 99.72%
Se 196.026† 561.5 0.405 mg/L 0.0042 0.405 mg/L 0.0042 1.03%
QC value within limits for Se 196.026 Recovery = 101.14%
Si 251.611† 171517.4 5.08 mg/L 0.076 5.08 mg/L 0.076 1.50%
QC value within limits for Si 251.611 Recovery = 101.59%
Sn 189.927† 5753.9 1.03 mg/L 0.009 1.03 mg/L 0.009 0.86%
QC value within limits for Sn 189.927 Recovery = 102.79%
Ti 334.940† 716920.0 0.997 mg/L 0.0007 0.997 mg/L 0.0007 0.07%
QC value within limits for Ti 334.940 Recovery = 99.67%
Tl 190.801† 827.0 0.513 mg/L 0.0058 0.513 mg/L 0.0058 1.14%
QC value within limits for Tl 190.801 Recovery = 102.66%
V 290.880† 149532.4 1.02 mg/L 0.009 1.02 mg/L 0.009 0.86%
QC value within limits for V 290.880 Recovery = 101.90%
Zn 206.200† 32574.4 1.03 mg/L 0.009 1.03 mg/L 0.009 0.90%
QC value within limits for Zn 206.200 Recovery = 102.90%
K 766.490† 133036.8 49.8 mg/L 0.59 49.8 mg/L 0.59 1.19%
QC value within limits for K 766.490 Recovery = 99.57%
Na 589.592† 677294.2 49.3 mg/L 0.40 49.3 mg/L 0.40 0.80%
QC value within limits for Na 589.592 Recovery = 98.65%
Sr 407.771† 1088892.5 1.01 mg/L 0.077 1.01 mg/L 0.077 7.59%
QC value within limits for Sr 407.771 Recovery = 101.08%
Li 670.784† 83228.7 0.999 mg/L 0.0026 0.999 mg/L 0.0026 0.26%
QC value within limits for Li 670.784 Recovery = 99.85%
All analyte(s) passed QC.

Sequence No.: 41 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 7:36:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5181637.6						40945.98	0.79%
YRADIAL	311891.1						6456.37	2.07%
Ga 417.206	1243645.7						1822.19	0.15%
GaRADIAL	60634.7						1126.48	1.86%
Ag 328.068†	-28.9	-0.00079	mg/L	0.000244	-0.00079	mg/L	0.000244	30.84%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-51.8	-0.00597	mg/L	0.002402	-0.00597	mg/L	0.002402	40.24%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.2	0.00078	mg/L	0.002456	0.00078	mg/L	0.002456	313.59%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	2.0	-0.00028	mg/L	0.000076	-0.00028	mg/L	0.000076	26.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	8.1	0.00002	mg/L	0.000025	0.00002	mg/L	0.000025	149.87%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	1015.7	0.0205	mg/L	0.00068	0.0205	mg/L	0.00068	3.31%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-0.3	0.0380	mg/L	0.07872	0.0380	mg/L	0.07872	207.34%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	1.1	-0.00006	mg/L	0.000208	-0.00006	mg/L	0.000208	331.49%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	2.1	0.00008	mg/L	0.000232	0.00008	mg/L	0.000232	300.21%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	3.2	-0.00014	mg/L	0.000128	-0.00014	mg/L	0.000128	93.26%
QC value within limits for Cr 267.716 Recovery = Not calculated								

Approved: February 22, 2011

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Cu 327.393†            -100.1    -0.00050 mg/L      0.000552    -0.00050 mg/L      0.000552 110.22%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†              -2.5    -0.00275 mg/L      0.002383    -0.00275 mg/L      0.002383  86.62%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†             -15.5    -0.00179 mg/L      0.004787    -0.00179 mg/L      0.004787 267.40%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              13.7    -0.00014 mg/L      0.000009    -0.00014 mg/L      0.000009   6.06%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -6.4    -0.00053 mg/L      0.000270    -0.00053 mg/L      0.000270  50.88%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†               3.1     0.00024 mg/L      0.000026     0.00024 mg/L      0.000026  10.78%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              11.6     0.00007 mg/L      0.000390     0.00007 mg/L      0.000390 534.71%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -1.1     0.00058 mg/L      0.001632     0.00058 mg/L      0.001632 281.95%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               1.3     0.00202 mg/L      0.002846     0.00202 mg/L      0.002846 140.70%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              43.6    -0.00199 mg/L      0.000357    -0.00199 mg/L      0.000357  17.92%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               8.5     0.00042 mg/L      0.000557     0.00042 mg/L      0.000557 133.18%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†             -59.3    -0.00007 mg/L      0.000096    -0.00007 mg/L      0.000096 142.01%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -1.1     0.00125 mg/L      0.002513     0.00125 mg/L      0.002513 200.46%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†             -143.8    -0.00060 mg/L      0.001131    -0.00060 mg/L      0.001131 187.58%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†               2.7     0.00008 mg/L      0.000152     0.00008 mg/L      0.000152 198.73%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               73.2     0.00630 mg/L      0.058450     0.00630 mg/L      0.058450 927.27%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             316.8     0.00734 mg/L      0.005317     0.00734 mg/L      0.005317  72.47%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              30.8     0.00023 mg/L      0.000059     0.00023 mg/L      0.000059  25.68%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             -14.8     0.00042 mg/L      0.001410     0.00042 mg/L      0.001410 334.78%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 42 **Autosampler Location: 81**
Sample ID: PBW 92 WG356762-02 **Date Collected: 2/21/2011 7:44:04 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 92 WG356762-02

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: PBW 92 WG356762-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5228373.9						64855.23	1.24%
YRADIAL	310723.0						8255.90	2.66%
Ga 417.206	1273641.4						10498.05	0.82%
GaRADIAL	60410.7						965.31	1.60%
Ag 328.068†	91.2	-0.00019	mg/L	0.000161	-0.00019	mg/L	0.000161	83.55%
Al 396.153†	-43.5	-0.00436	mg/L	0.010225	-0.00436	mg/L	0.010225	234.61%
As 188.979†	-0.6	-0.00096	mg/L	0.001163	-0.00096	mg/L	0.001163	120.85%
Ba 233.527†	5.7	-0.00021	mg/L	0.000042	-0.00021	mg/L	0.000042	19.38%
Be 234.861†	24.2	0.00004	mg/L	0.000019	0.00004	mg/L	0.000019	42.90%
B 249.677†	849.9	0.0174	mg/L	0.00108	0.0174	mg/L	0.00108	6.21%
Ca 227.546†	-3.9	0.00388	mg/L	0.041190	0.00388	mg/L	0.041190	>999.9%
Cd 228.802†	2.0	0.00000	mg/L	0.000110	0.00000	mg/L	0.000110	>999.9%
Co 228.616†	0.1	-0.00003	mg/L	0.000485	-0.00003	mg/L	0.000485	>999.9%
Cr 267.716†	-2.5	-0.00019	mg/L	0.000074	-0.00019	mg/L	0.000074	39.42%
Cu 327.393†	24.4	0.00037	mg/L	0.000757	0.00037	mg/L	0.000757	204.67%
Fe 239.562†	-0.3	0.00220	mg/L	0.004241	0.00220	mg/L	0.004241	192.51%
Mg 279.077†	-16.2	-0.00272	mg/L	0.009194	-0.00272	mg/L	0.009194	338.07%

Approved: February 22, 2011

Pierce Morris

Mn 257.610†	-6.9	-0.00019 mg/L	0.000027	-0.00019 mg/L	0.000027	14.19%
Mo 202.031†	0.2	-0.00002 mg/L	0.000678	-0.00002 mg/L	0.000678	>999.9%
Ni 231.604†	6.9	0.00036 mg/L	0.000210	0.00036 mg/L	0.000210	59.14%
Pb 220.353†	1.2	-0.00181 mg/L	0.000548	-0.00181 mg/L	0.000548	30.21%
Sb 206.836†	-0.3	0.00104 mg/L	0.000538	0.00104 mg/L	0.000538	51.56%
Se 196.026†	-4.5	-0.00212 mg/L	0.002167	-0.00212 mg/L	0.002167	102.43%
Si 251.611†	180.0	0.00205 mg/L	0.000645	0.00205 mg/L	0.000645	31.42%
Sn 189.927†	9.5	0.00060 mg/L	0.000566	0.00060 mg/L	0.000566	94.22%
Ti 334.940†	21.2	0.00004 mg/L	0.000070	0.00004 mg/L	0.000070	158.37%
Tl 190.801†	0.7	0.00234 mg/L	0.001542	0.00234 mg/L	0.001542	65.94%
V 290.880†	-44.6	0.00007 mg/L	0.001528	0.00007 mg/L	0.001528	>999.9%
Zn 206.200†	52.9	0.00166 mg/L	0.000120	0.00166 mg/L	0.000120	7.23%
K 766.490†	58.8	0.00091 mg/L	0.028246	0.00091 mg/L	0.028246	>999.9%
Na 589.592†	209.4	-0.00045 mg/L	0.005010	-0.00045 mg/L	0.005010	>999.9%
Sr 407.771†	73.3	0.00027 mg/L	0.000023	0.00027 mg/L	0.000023	8.57%
Li 670.784†	9.2	0.00071 mg/L	0.001522	0.00071 mg/L	0.001522	214.83%

Sequence No.: 43 **Autosampler Location: 82**
Sample ID: LCSW 92 WG356762-03 **Date Collected: 2/21/2011 7:50:42 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 92 WG356762-03

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: LCSW 92 WG356762-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4987995.7						46195.94	0.93%
YRADIAL	305005.9						12000.64	3.93%
Ga 417.206	1235409.1						15710.16	1.27%
GaRADIAL	59333.7						2504.59	4.22%
Ag 328.068†	39889.5	0.199	mg/L	0.0029	0.199	mg/L	0.0029	1.43%
Al 396.153†	26868.8	5.23	mg/L	0.024	5.23	mg/L	0.024	0.46%
As 188.979†	207.5	0.193	mg/L	0.0011	0.193	mg/L	0.0011	0.58%
Ba 233.527†	29723.7	0.521	mg/L	0.0071	0.521	mg/L	0.0071	1.37%
Be 234.861†	14077.9	0.0252	mg/L	0.00080	0.0252	mg/L	0.00080	3.17%
B 249.677†	53358.5	1.01	mg/L	0.015	1.01	mg/L	0.015	1.48%
Ca 227.546†	516.7	5.15	mg/L	0.095	5.15	mg/L	0.095	1.86%
Cd 228.802†	429.1	0.0247	mg/L	0.00039	0.0247	mg/L	0.00039	1.59%
Co 228.616†	1945.8	0.103	mg/L	0.0010	0.103	mg/L	0.0010	0.98%
Cr 267.716†	28870.8	0.258	mg/L	0.0041	0.258	mg/L	0.0041	1.59%
Cu 327.393†	35887.1	0.251	mg/L	0.0043	0.251	mg/L	0.0043	1.72%
Fe 239.562†	919.1	2.02	mg/L	0.090	2.02	mg/L	0.090	4.47%
Mg 279.077†	4217.9	5.10	mg/L	0.200	5.10	mg/L	0.200	3.93%
Mn 257.610†	114694.5	0.265	mg/L	0.0039	0.265	mg/L	0.0039	1.49%
Mo 202.031†	6760.8	0.515	mg/L	0.0107	0.515	mg/L	0.0107	2.08%
Ni 231.604†	8724.9	0.261	mg/L	0.0027	0.261	mg/L	0.0027	1.05%
Pb 220.353†	1489.4	0.270	mg/L	0.0038	0.270	mg/L	0.0038	1.41%
Sb 206.836†	935.6	0.600	mg/L	0.0061	0.600	mg/L	0.0061	1.02%
Se 196.026†	268.0	0.194	mg/L	0.0011	0.194	mg/L	0.0011	0.55%
Si 251.611†	87129.0	2.58	mg/L	0.040	2.58	mg/L	0.040	1.55%
Sn 189.927†	3064.0	0.547	mg/L	0.0039	0.547	mg/L	0.0039	0.71%
Ti 334.940†	367014.2	0.510	mg/L	0.0015	0.510	mg/L	0.0015	0.30%
Tl 190.801†	428.4	0.267	mg/L	0.0032	0.267	mg/L	0.0032	1.21%
V 290.880†	75254.0	0.513	mg/L	0.0073	0.513	mg/L	0.0073	1.43%
Zn 206.200†	16391.2	0.518	mg/L	0.0108	0.518	mg/L	0.0108	2.09%
K 766.490†	67862.5	25.4	mg/L	0.12	25.4	mg/L	0.12	0.49%
Na 589.592†	350245.1	25.5	mg/L	0.18	25.5	mg/L	0.18	0.71%
Sr 407.771†	565156.7	0.525	mg/L	0.0376	0.525	mg/L	0.0376	7.16%
Li 670.784†	43089.7	0.517	mg/L	0.0067	0.517	mg/L	0.0067	1.29%

Sequence No.: 44 **Autosampler Location: 83**
Sample ID: L1102039701 WG356762-01 **Date Collected: 2/21/2011 7:57:24 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 22, 2011

Pierre Morris

Nebulizer Parameters: L1102039701 WG356762-01

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102039701 WG356762-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5028129.3						12769.60	0.25%
YRADIAL	304126.6						12266.48	4.03%
Ga 417.206	1259993.4						3972.60	0.32%
GaRADIAL	60078.6						1393.65	2.32%
Ag 328.068†	63.0	-0.00034	mg/L	0.000937	-0.00034	mg/L	0.000937	272.09%
Al 396.153†	-24.7	-0.00070	mg/L	0.004367	-0.00070	mg/L	0.004367	620.43%
As 188.979†	2.0	0.00134	mg/L	0.003347	0.00134	mg/L	0.003347	249.37%
Ba 233.527†	685.4	0.0117	mg/L	0.00011	0.0117	mg/L	0.00011	0.97%
Be 234.861†	12.9	0.00002	mg/L	0.000032	0.00002	mg/L	0.000032	128.44%
B 249.677†	1178.5	0.0236	mg/L	0.00144	0.0236	mg/L	0.00144	6.10%
Ca 227.546†	727.9	6.98	mg/L	0.020	6.98	mg/L	0.020	0.28%
Cd 228.802†	2.4	0.00000	mg/L	0.000135	0.00000	mg/L	0.000135	>999.9%
Co 228.616†	-4.9	-0.00030	mg/L	0.000207	-0.00030	mg/L	0.000207	69.16%
Cr 267.716†	104.5	0.00077	mg/L	0.000161	0.00077	mg/L	0.000161	20.93%
Cu 327.393†	-9.3	0.00014	mg/L	0.001092	0.00014	mg/L	0.001092	799.10%
Fe 239.562†	2.5	0.00819	mg/L	0.005120	0.00819	mg/L	0.005120	62.54%
Mg 279.077†	851.6	1.04	mg/L	0.041	1.04	mg/L	0.041	3.97%
Mn 257.610†	292.8	0.00106	mg/L	0.000007	0.00106	mg/L	0.000007	0.70%
Mo 202.031†	9.9	0.00072	mg/L	0.000350	0.00072	mg/L	0.000350	48.77%
Ni 231.604†	-4.5	0.00001	mg/L	0.000472	0.00001	mg/L	0.000472	>999.9%
Pb 220.353†	6.2	-0.00057	mg/L	0.000416	-0.00057	mg/L	0.000416	73.65%
Sb 206.836†	2.1	0.00261	mg/L	0.001014	0.00261	mg/L	0.001014	38.89%
Se 196.026†	-3.7	0.00021	mg/L	0.002276	0.00021	mg/L	0.002276	>999.9%
Si 251.611†	88868.8	2.64	mg/L	0.013	2.64	mg/L	0.013	0.49%
Sn 189.927†	7.9	0.00031	mg/L	0.000789	0.00031	mg/L	0.000789	252.45%
Ti 334.940†	-25.2	0.00005	mg/L	0.000198	0.00005	mg/L	0.000198	401.85%
Tl 190.801†	19.0	0.0128	mg/L	0.00157	0.0128	mg/L	0.00157	12.28%
V 290.880†	270.6	0.00222	mg/L	0.000216	0.00222	mg/L	0.000216	9.71%
Zn 206.200†	105.1	0.00331	mg/L	0.000162	0.00331	mg/L	0.000162	4.91%
K 766.490†	1307.9	0.466	mg/L	0.0320	0.466	mg/L	0.0320	6.88%
Na 589.592†	56698.6	4.10	mg/L	0.040	4.10	mg/L	0.040	0.98%
Sr 407.771†	77242.2	0.0719	mg/L	0.00462	0.0719	mg/L	0.00462	6.42%
Li 670.784†	151.7	0.00242	mg/L	0.001238	0.00242	mg/L	0.001238	51.20%

Sequence No.: 45 **Autosampler Location: 84**
Sample ID: L1102039701PS WG356823-03 **Date Collected: 2/21/2011 8:04:05 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102039701PS WG356823-03

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102039701PS WG356823-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4969499.4						45034.18	0.91%
YRADIAL	305317.8						3640.37	1.19%
Ga 417.206	1216228.4						12913.49	1.06%
GaRADIAL	60010.4						1023.99	1.71%
Ag 328.068†	39967.1	0.199	mg/L	0.0078	0.199	mg/L	0.0078	3.93%
Al 396.153†	28181.9	5.49	mg/L	0.015	5.49	mg/L	0.015	0.27%
As 188.979†	208.9	0.194	mg/L	0.0080	0.194	mg/L	0.0080	4.10%
Ba 233.527†	30131.3	0.528	mg/L	0.0264	0.528	mg/L	0.0264	5.00%
Be 234.861†	14191.8	0.0253	mg/L	0.00125	0.0253	mg/L	0.00125	4.96%
B 249.677†	54459.0	1.03	mg/L	0.038	1.03	mg/L	0.038	3.70%
Ca 227.546†	1242.4	12.1	mg/L	0.57	12.1	mg/L	0.57	4.70%
Cd 228.802†	429.9	0.0247	mg/L	0.00051	0.0247	mg/L	0.00051	2.06%
Co 228.616†	1892.4	0.0998	mg/L	0.00387	0.0998	mg/L	0.00387	3.88%

Approved: February 22, 2011

Pierre Morris

Cr 267.716†	28583.5	0.255	mg/L	0.0134	0.255	mg/L	0.0134 5.25%
Cu 327.393†	35752.8	0.250	mg/L	0.0121	0.250	mg/L	0.0121 4.82%
Fe 239.562†	1000.8	2.20	mg/L	0.039	2.20	mg/L	0.039 1.79%
Mg 279.077†	5463.3	6.59	mg/L	0.087	6.59	mg/L	0.087 1.31%
Mn 257.610†	113114.4	0.262	mg/L	0.0129	0.262	mg/L	0.0129 4.92%
Mo 202.031†	6675.6	0.509	mg/L	0.0201	0.509	mg/L	0.0201 3.96%
Ni 231.604†	8477.8	0.254	mg/L	0.0101	0.254	mg/L	0.0101 3.98%
Pb 220.353†	1468.6	0.266	mg/L	0.0089	0.266	mg/L	0.0089 3.35%
Sb 206.836†	927.7	0.595	mg/L	0.0208	0.595	mg/L	0.0208 3.49%
Se 196.026†	277.3	0.202	mg/L	0.0077	0.202	mg/L	0.0077 3.81%
Si 251.611†	176966.3	5.25	mg/L	0.236	5.25	mg/L	0.236 4.49%
Sn 189.927†	-0.4	-0.00118	mg/L	0.000466	-0.00118	mg/L	0.000466 39.49%
Ti 334.940†	368290.3	0.512	mg/L	0.0335	0.512	mg/L	0.0335 6.54%
Tl 190.801†	431.5	0.268	mg/L	0.0102	0.268	mg/L	0.0102 3.79%
V 290.880†	74952.1	0.511	mg/L	0.0249	0.511	mg/L	0.0249 4.87%
Zn 206.200†	16407.2	0.518	mg/L	0.0288	0.518	mg/L	0.0288 5.56%
K 766.490†	73113.4	27.4	mg/L	0.14	27.4	mg/L	0.14 0.52%
Na 589.592†	425233.2	30.9	mg/L	0.59	30.9	mg/L	0.59 1.91%
Sr 407.771†	676984.6	0.629	mg/L	0.0337	0.629	mg/L	0.0337 5.35%
Li 670.784†	45281.1	0.544	mg/L	0.0027	0.544	mg/L	0.0027 0.49%

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Sequence No.: 46 **Autosampler Location: 85**
Sample ID: L1102039701DL WG356823-04 **Date Collected: 2/21/2011 8:10:48 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102039701DL WG356823-04

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102039701DL WG356823-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5161477.7						25746.14	0.50%
YRADIAL	306965.8						2222.25	0.72%
Ga 417.206	1242561.2						27032.98	2.18%
GaRADIAL	60102.4						1050.31	1.75%
Ag 328.068†	79.6	-0.00025	mg/L	0.000814	-0.00025	mg/L	0.000814	320.46%
Al 396.153†	-64.4	-0.00843	mg/L	0.004499	-0.00843	mg/L	0.004499	53.37%
As 188.979†	-0.1	-0.00050	mg/L	0.003872	-0.00050	mg/L	0.003872	768.91%
Ba 233.527†	138.5	0.00211	mg/L	0.000076	0.00211	mg/L	0.000076	3.59%
Be 234.861†	7.6	0.00002	mg/L	0.000039	0.00002	mg/L	0.000039	244.57%
B 249.677†	1101.1	0.0221	mg/L	0.00068	0.0221	mg/L	0.00068	3.09%
Ca 227.546†	140.0	1.38	mg/L	0.098	1.38	mg/L	0.098	7.10%
Cd 228.802†	2.1	0.00000	mg/L	0.000108	0.00000	mg/L	0.000108	>999.9%
Co 228.616†	-0.8	-0.00008	mg/L	0.000353	-0.00008	mg/L	0.000353	457.30%
Cr 267.716†	28.4	0.00009	mg/L	0.000021	0.00009	mg/L	0.000021	23.80%
Cu 327.393†	-68.5	-0.00028	mg/L	0.001092	-0.00028	mg/L	0.001092	392.90%
Fe 239.562†	-1.4	-0.00022	mg/L	0.005569	-0.00022	mg/L	0.005569	>999.9%
Mg 279.077†	162.1	0.212	mg/L	0.0035	0.212	mg/L	0.0035	1.67%
Mn 257.610†	72.8	0.00010	mg/L	0.000021	0.00010	mg/L	0.000021	20.53%
Mo 202.031†	0.2	-0.00003	mg/L	0.000234	-0.00003	mg/L	0.000234	916.20%
Ni 231.604†	-3.6	0.00004	mg/L	0.000337	0.00004	mg/L	0.000337	774.20%
Pb 220.353†	2.8	-0.00145	mg/L	0.000636	-0.00145	mg/L	0.000636	43.88%
Sb 206.836†	-0.4	0.00101	mg/L	0.000746	0.00101	mg/L	0.000746	73.47%
Se 196.026†	-3.9	-0.00129	mg/L	0.002134	-0.00129	mg/L	0.002134	164.92%
Si 251.611†	17933.1	0.530	mg/L	0.0218	0.530	mg/L	0.0218	4.11%
Sn 189.927†	10.1	0.00070	mg/L	0.000203	0.00070	mg/L	0.000203	29.05%
Ti 334.940†	-0.7	0.00003	mg/L	0.000101	0.00003	mg/L	0.000101	369.15%
Tl 190.801†	-3.0	-0.00001	mg/L	0.000495	-0.00001	mg/L	0.000495	>999.9%
V 290.880†	-119.3	-0.00044	mg/L	0.000364	-0.00044	mg/L	0.000364	83.61%
Zn 206.200†	53.9	0.00169	mg/L	0.000143	0.00169	mg/L	0.000143	8.49%
K 766.490†	351.4	0.110	mg/L	0.0352	0.110	mg/L	0.0352	31.99%
Na 589.592†	11887.9	0.847	mg/L	0.0057	0.847	mg/L	0.0057	0.67%
Sr 407.771†	15259.1	0.0144	mg/L	0.00122	0.0144	mg/L	0.00122	8.50%
Li 670.784†	-74.8	-0.00030	mg/L	0.001120	-0.00030	mg/L	0.001120	374.56%

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Sequence No.: 47 **Autosampler Location: 86**

Approved: February 22, 2011

Pierre Morris

Sample ID: L1102039702S WG356762-04 **Date Collected: 2/21/2011 8:17:27 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102039702S WG356762-04

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102039702S WG356762-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5030301.4						67281.30	1.34%
YRADIAL	302498.8						6073.94	2.01%
Ga 417.206	1261738.6						19478.95	1.54%
GaRADIAL	60348.4						877.25	1.45%
Ag 328.068†	7950.6	0.0392	mg/L	0.00104	0.0392	mg/L	0.00104	2.67%
Al 396.153†	5430.3	1.06	mg/L	0.006	1.06	mg/L	0.006	0.57%
As 188.979†	41.6	0.0383	mg/L	0.00234	0.0383	mg/L	0.00234	6.11%
Ba 233.527†	6739.1	0.118	mg/L	0.0025	0.118	mg/L	0.0025	2.14%
Be 234.861†	2796.6	0.00500	mg/L	0.000026	0.00500	mg/L	0.000026	0.51%
B 249.677†	11559.5	0.220	mg/L	0.0049	0.220	mg/L	0.0049	2.23%
Ca 227.546†	826.2	7.95	mg/L	0.086	7.95	mg/L	0.086	1.09%
Cd 228.802†	85.5	0.00483	mg/L	0.000264	0.00483	mg/L	0.000264	5.48%
Co 228.616†	387.6	0.0204	mg/L	0.00026	0.0204	mg/L	0.00026	1.30%
Cr 267.716†	5838.7	0.0520	mg/L	0.00072	0.0520	mg/L	0.00072	1.39%
Cu 327.393†	6999.5	0.0492	mg/L	0.00121	0.0492	mg/L	0.00121	2.46%
Fe 239.562†	188.9	0.417	mg/L	0.0056	0.417	mg/L	0.0056	1.34%
Mg 279.077†	1686.2	2.05	mg/L	0.032	2.05	mg/L	0.032	1.55%
Mn 257.610†	23294.1	0.0542	mg/L	0.00100	0.0542	mg/L	0.00100	1.85%
Mo 202.031†	1375.9	0.105	mg/L	0.0019	0.105	mg/L	0.0019	1.83%
Ni 231.604†	1747.5	0.0524	mg/L	0.00057	0.0524	mg/L	0.00057	1.08%
Pb 220.353†	307.2	0.0544	mg/L	0.00078	0.0544	mg/L	0.00078	1.44%
Sb 206.836†	190.0	0.123	mg/L	0.0027	0.123	mg/L	0.0027	2.17%
Se 196.026†	53.6	0.0414	mg/L	0.00170	0.0414	mg/L	0.00170	4.12%
Si 251.611†	105834.1	3.14	mg/L	0.071	3.14	mg/L	0.071	2.27%
Sn 189.927†	636.7	0.113	mg/L	0.0016	0.113	mg/L	0.0016	1.41%
Ti 334.940†	74033.1	0.103	mg/L	0.0022	0.103	mg/L	0.0022	2.14%
Tl 190.801†	101.5	0.0639	mg/L	0.00243	0.0639	mg/L	0.00243	3.81%
V 290.880†	15218.5	0.104	mg/L	0.0029	0.104	mg/L	0.0029	2.82%
Zn 206.200†	3373.6	0.107	mg/L	0.0014	0.107	mg/L	0.0014	1.27%
K 766.490†	14705.0	5.49	mg/L	0.022	5.49	mg/L	0.022	0.41%
Na 589.592†	125276.2	9.08	mg/L	0.071	9.08	mg/L	0.071	0.78%
Sr 407.771†	191743.0	0.178	mg/L	0.0108	0.178	mg/L	0.0108	6.05%
Li 670.784†	8578.7	0.103	mg/L	0.0016	0.103	mg/L	0.0016	1.55%

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Sequence No.: 48 **Autosampler Location: 87**
Sample ID: L1102039703SD WG356762-05 **Date Collected: 2/21/2011 8:24:10 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102039703SD WG356762-05

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102039703SD WG356762-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5071044.2						21188.20	0.42%
YRADIAL	307287.8						6091.87	1.98%
Ga 417.206	1264068.0						15201.59	1.20%
GaRADIAL	60784.6						766.09	1.26%
Ag 328.068†	8028.4	0.0396	mg/L	0.00044	0.0396	mg/L	0.00044	1.11%
Al 396.153†	5161.4	1.01	mg/L	0.020	1.01	mg/L	0.020	1.98%
As 188.979†	43.6	0.0402	mg/L	0.00048	0.0402	mg/L	0.00048	1.21%
Ba 233.527†	6608.2	0.116	mg/L	0.0010	0.116	mg/L	0.0010	0.87%
Be 234.861†	2781.8	0.00498	mg/L	0.000101	0.00498	mg/L	0.000101	2.04%

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B 249.677†	11397.1	0.217 mg/L	0.0038	0.217 mg/L	0.0038	1.77%
Ca 227.546†	827.6	7.96 mg/L	0.218	7.96 mg/L	0.218	2.74%
Cd 228.802†	84.2	0.00474 mg/L	0.000117	0.00474 mg/L	0.000117	2.47%
Co 228.616†	380.7	0.0200 mg/L	0.00029	0.0200 mg/L	0.00029	1.47%
Cr 267.716†	5827.0	0.0519 mg/L	0.00066	0.0519 mg/L	0.00066	1.28%
Cu 327.393†	7055.0	0.0496 mg/L	0.00094	0.0496 mg/L	0.00094	1.89%
Fe 239.562†	183.8	0.406 mg/L	0.0062	0.406 mg/L	0.0062	1.52%
Mg 279.077†	1683.0	2.04 mg/L	0.023	2.04 mg/L	0.023	1.11%
Mn 257.610†	22946.2	0.0534 mg/L	0.00047	0.0534 mg/L	0.00047	0.88%
Mo 202.031†	1360.2	0.104 mg/L	0.0011	0.104 mg/L	0.0011	1.03%
Ni 231.604†	1718.4	0.0515 mg/L	0.00033	0.0515 mg/L	0.00033	0.65%
Pb 220.353†	305.1	0.0540 mg/L	0.00152	0.0540 mg/L	0.00152	2.82%
Sb 206.836†	184.4	0.119 mg/L	0.0026	0.119 mg/L	0.0026	2.17%
Se 196.026†	49.1	0.0382 mg/L	0.00140	0.0382 mg/L	0.00140	3.67%
Si 251.611†	106392.9	3.16 mg/L	0.049	3.16 mg/L	0.049	1.56%
Sn 189.927†	618.4	0.109 mg/L	0.0008	0.109 mg/L	0.0008	0.69%
Ti 334.940†	73443.1	0.102 mg/L	0.0014	0.102 mg/L	0.0014	1.39%
Tl 190.801†	97.4	0.0614 mg/L	0.00359	0.0614 mg/L	0.00359	5.84%
V 290.880†	15207.3	0.104 mg/L	0.0011	0.104 mg/L	0.0011	1.04%
Zn 206.200†	3331.8	0.105 mg/L	0.0006	0.105 mg/L	0.0006	0.62%
K 766.490†	14347.4	5.35 mg/L	0.081	5.35 mg/L	0.081	1.52%
Na 589.592†	125821.6	9.12 mg/L	0.101	9.12 mg/L	0.101	1.10%
Sr 407.771†	188928.0	0.176 mg/L	0.0143	0.176 mg/L	0.0143	8.14%
Li 670.784†	8553.3	0.103 mg/L	0.0002	0.103 mg/L	0.0002	0.15%

Sequence No.: 49 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 8:30:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4928791.7						91114.26	1.85%
YRADIAL	304333.6						2084.37	0.68%
Ga 417.206	1186772.9						21785.23	1.84%
GaRADIAL	59084.2						903.40	1.53%
Ag 328.068†	78588.6	0.393	mg/L	0.0087	0.393	mg/L	0.0087	2.21%
QC value within limits for Ag 328.068 Recovery = 98.24%								
Al 396.153†	51639.6	10.0	mg/L	0.04	10.0	mg/L	0.04	0.39%
QC value within limits for Al 396.153 Recovery = 100.48%								
As 188.979†	422.2	0.393	mg/L	0.0071	0.393	mg/L	0.0071	1.81%
QC value within limits for As 188.979 Recovery = 98.37%								
Ba 233.527†	57082.2	1.00	mg/L	0.021	1.00	mg/L	0.021	2.12%
QC value within limits for Ba 233.527 Recovery = 100.08%								
Be 234.861†	27916.3	0.0499	mg/L	0.00126	0.0499	mg/L	0.00126	2.53%
QC value within limits for Be 234.861 Recovery = 99.83%								
B 249.677†	26596.6	0.509	mg/L	0.0112	0.509	mg/L	0.0112	2.21%
QC value within limits for B 249.677 Recovery = 101.87%								
Ca 227.546†	1028.1	10.2	mg/L	0.14	10.2	mg/L	0.14	1.38%
QC value within limits for Ca 227.546 Recovery = 101.81%								
Cd 228.802†	869.5	0.0502	mg/L	0.00112	0.0502	mg/L	0.00112	2.23%
QC value within limits for Cd 228.802 Recovery = 100.31%								
Co 228.616†	3790.0	0.200	mg/L	0.0036	0.200	mg/L	0.0036	1.78%
QC value within limits for Co 228.616 Recovery = 99.98%								
Cr 267.716†	55484.6	0.496	mg/L	0.0118	0.496	mg/L	0.0118	2.37%
QC value within limits for Cr 267.716 Recovery = 99.14%								
Cu 327.393†	70898.1	0.496	mg/L	0.0124	0.496	mg/L	0.0124	2.49%
QC value within limits for Cu 327.393 Recovery = 99.24%								
Fe 239.562†	1776.7	3.90	mg/L	0.071	3.90	mg/L	0.071	1.81%
QC value within limits for Fe 239.562 Recovery = 97.55%								
Mg 279.077†	8064.8	9.73	mg/L	0.148	9.73	mg/L	0.148	1.52%
QC value within limits for Mg 279.077 Recovery = 97.28%								
Mn 257.610†	217364.3	0.502	mg/L	0.0119	0.502	mg/L	0.0119	2.38%
QC value within limits for Mn 257.610 Recovery = 100.32%								

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Mo 202.031†	13449.2	1.02 mg/L	0.017	1.02 mg/L	0.017	1.70%
QC value within limits for Mo 202.031 Recovery = 102.46%						
Ni 231.604†	16653.9	0.498 mg/L	0.0105	0.498 mg/L	0.0105	2.10%
QC value within limits for Ni 231.604 Recovery = 99.65%						
Pb 220.353†	2899.8	0.527 mg/L	0.0088	0.527 mg/L	0.0088	1.66%
QC value within limits for Pb 220.353 Recovery = 105.48%						
Sb 206.836†	1858.9	1.19 mg/L	0.022	1.19 mg/L	0.022	1.86%
QC value within limits for Sb 206.836 Recovery = 99.18%						
Se 196.026†	555.4	0.400 mg/L	0.0077	0.400 mg/L	0.0077	1.92%
QC value within limits for Se 196.026 Recovery = 100.04%						
Si 251.611†	166139.5	4.92 mg/L	0.117	4.92 mg/L	0.117	2.38%
QC value within limits for Si 251.611 Recovery = 98.40%						
Sn 189.927†	5763.9	1.03 mg/L	0.019	1.03 mg/L	0.019	1.87%
QC value within limits for Sn 189.927 Recovery = 102.97%						
Ti 334.940†	717944.1	0.998 mg/L	0.0012	0.998 mg/L	0.0012	0.12%
QC value within limits for Ti 334.940 Recovery = 99.81%						
Tl 190.801†	837.6	0.520 mg/L	0.0102	0.520 mg/L	0.0102	1.96%
QC value within limits for Tl 190.801 Recovery = 103.94%						
V 290.880†	144927.5	0.988 mg/L	0.0233	0.988 mg/L	0.0233	2.36%
QC value within limits for V 290.880 Recovery = 98.76%						
Zn 206.200†	31868.5	1.01 mg/L	0.020	1.01 mg/L	0.020	2.00%
QC value within limits for Zn 206.200 Recovery = 100.67%						
K 766.490†	133481.8	49.9 mg/L	0.39	49.9 mg/L	0.39	0.79%
QC value within limits for K 766.490 Recovery = 99.90%						
Na 589.592†	679649.4	49.5 mg/L	0.45	49.5 mg/L	0.45	0.90%
QC value within limits for Na 589.592 Recovery = 99.00%						
Sr 407.771†	1065765.7	0.989 mg/L	0.0690	0.989 mg/L	0.0690	6.97%
QC value within limits for Sr 407.771 Recovery = 98.93%						
Li 670.784†	83225.8	0.999 mg/L	0.0026	0.999 mg/L	0.0026	0.26%
QC value within limits for Li 670.784 Recovery = 99.85%						

All analyte(s) passed QC.

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Sequence No.: 50 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 8:37:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5157350.8						57700.98	1.12%
YRADIAL	307000.6						1602.47	0.52%
Ga 417.206	1241555.1						13020.45	1.05%
GaRADIAL	59413.3						812.62	1.37%
Ag 328.068†	-55.1	-0.00092	mg/L	0.001286	-0.00092	mg/L	0.001286	139.28%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-61.8	-0.00793	mg/L	0.010386	-0.00793	mg/L	0.010386	131.00%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.4	-0.00074	mg/L	0.002398	-0.00074	mg/L	0.002398	324.00%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-0.2	-0.00032	mg/L	0.000120	-0.00032	mg/L	0.000120	37.59%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	0.7	0.00000	mg/L	0.000024	0.00000	mg/L	0.000024	668.46%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	687.1	0.0143	mg/L	0.00055	0.0143	mg/L	0.00055	3.87%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-8.0	-0.0351	mg/L	0.05964	-0.0351	mg/L	0.05964	169.98%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	4.6	0.00015	mg/L	0.000178	0.00015	mg/L	0.000178	120.40%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	2.9	0.00012	mg/L	0.000049	0.00012	mg/L	0.000049	40.96%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-6.3	-0.00022	mg/L	0.000110	-0.00022	mg/L	0.000110	49.67%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-47.2	-0.00013	mg/L	0.000550	-0.00013	mg/L	0.000550	419.12%

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QC value within limits for Cu 327.393 Recovery = Not calculated
Fe 239.562† -0.3 0.00216 mg/L 0.003705 0.00216 mg/L 0.003705 171.82%
QC value within limits for Fe 239.562 Recovery = Not calculated
Mg 279.077† -14.3 -0.00033 mg/L 0.007731 -0.00033 mg/L 0.007731 >999.9%
QC value within limits for Mg 279.077 Recovery = Not calculated
Mn 257.610† 10.2 -0.00015 mg/L 0.000031 -0.00015 mg/L 0.000031 20.56%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 2.6 0.00016 mg/L 0.000160 0.00016 mg/L 0.000160 101.48%
QC value within limits for Mo 202.031 Recovery = Not calculated
Ni 231.604† -6.3 -0.00004 mg/L 0.000254 -0.00004 mg/L 0.000254 699.69%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 11.0 -0.00004 mg/L 0.001909 -0.00004 mg/L 0.001909 >999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 2.1 0.00260 mg/L 0.001477 0.00260 mg/L 0.001477 56.87%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 4.5 0.00432 mg/L 0.001738 0.00432 mg/L 0.001738 40.23%
QC value within limits for Se 196.026 Recovery = Not calculated
Si 251.611† 22.6 -0.00263 mg/L 0.000763 -0.00263 mg/L 0.000763 29.06%
QC value within limits for Si 251.611 Recovery = Not calculated
Sn 189.927† 12.8 0.00119 mg/L 0.000443 0.00119 mg/L 0.000443 37.28%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 334.940† -49.5 -0.00005 mg/L 0.000158 -0.00005 mg/L 0.000158 289.75%
QC value within limits for Ti 334.940 Recovery = Not calculated
Tl 190.801† -2.9 0.00019 mg/L 0.003697 0.00019 mg/L 0.003697 >999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 290.880† -72.0 -0.00011 mg/L 0.000359 -0.00011 mg/L 0.000359 317.21%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 1.1 0.00003 mg/L 0.000057 0.00003 mg/L 0.000057 219.71%
QC value within limits for Zn 206.200 Recovery = Not calculated
K 766.490† 108.5 0.0195 mg/L 0.01844 0.0195 mg/L 0.01844 94.35%
QC value within limits for K 766.490 Recovery = Not calculated
Na 589.592† 308.8 0.00676 mg/L 0.001963 0.00676 mg/L 0.001963 29.04%
QC value within limits for Na 589.592 Recovery = Not calculated
Sr 407.771† 53.2 0.00025 mg/L 0.000052 0.00025 mg/L 0.000052 20.79%
QC value within limits for Sr 407.771 Recovery = Not calculated
Li 670.784† 98.5 0.00178 mg/L 0.000344 0.00178 mg/L 0.000344 19.34%
QC value within limits for Li 670.784 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 51 **Autosampler Location: 88**
Sample ID: PBW 2C WG356765-02 **Date Collected: 2/21/2011 8:44:09 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 2C WG356765-02

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: PBW 2C WG356765-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5174212.3						58889.94	1.14%
YRADIAL	313590.5						2981.96	0.95%
Ga 417.206	1267828.3						21759.65	1.72%
GaRADIAL	61071.8						786.54	1.29%
Ag 328.068†	154.9	0.00013	mg/L	0.000577	0.00013	mg/L	0.000577	451.83%
Al 396.153†	-77.2	-0.0109	mg/L	0.00890	-0.0109	mg/L	0.00890	81.58%
As 188.979†	0.5	0.00010	mg/L	0.002571	0.00010	mg/L	0.002571	>999.9%
Ba 233.527†	1.9	-0.00028	mg/L	0.000056	-0.00028	mg/L	0.000056	19.95%
Be 234.861†	4.9	0.00001	mg/L	0.000010	0.00001	mg/L	0.000010	80.34%
B 249.677†	516.0	0.0111	mg/L	0.00001	0.0111	mg/L	0.00001	0.13%
Ca 227.546†	-2.7	0.0156	mg/L	0.01810	0.0156	mg/L	0.01810	115.74%
Cd 228.802†	-1.2	-0.00020	mg/L	0.000077	-0.00020	mg/L	0.000077	38.84%
Co 228.616†	0.0	-0.00003	mg/L	0.000232	-0.00003	mg/L	0.000232	738.70%
Cr 267.716†	-12.8	-0.00028	mg/L	0.000073	-0.00028	mg/L	0.000073	26.18%
Cu 327.393†	65.8	0.00066	mg/L	0.000636	0.00066	mg/L	0.000636	96.67%
Fe 239.562†	-3.0	-0.00376	mg/L	0.000665	-0.00376	mg/L	0.000665	17.69%
Mg 279.077†	-18.1	-0.00500	mg/L	0.001747	-0.00500	mg/L	0.001747	34.94%
Mn 257.610†	5.5	-0.00016	mg/L	0.000022	-0.00016	mg/L	0.000022	13.42%

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Mo 202.031†	1.1	0.00004 mg/L	0.000298	0.00004 mg/L	0.000298	685.19%
Ni 231.604†	-3.0	0.00006 mg/L	0.000095	0.00006 mg/L	0.000095	154.10%
Pb 220.353†	11.3	0.00002 mg/L	0.001971	0.00002 mg/L	0.001971	>999.9%
Sb 206.836†	-1.0	0.00059 mg/L	0.000843	0.00059 mg/L	0.000843	141.81%
Se 196.026†	-1.0	0.00038 mg/L	0.002102	0.00038 mg/L	0.002102	556.42%
Si 251.611†	117.8	0.00020 mg/L	0.000624	0.00020 mg/L	0.000624	305.93%
Sn 189.927†	9.3	0.00056 mg/L	0.000991	0.00056 mg/L	0.000991	177.72%
Ti 334.940†	-24.1	-0.00002 mg/L	0.000174	-0.00002 mg/L	0.000174	934.63%
Tl 190.801†	-0.4	0.00169 mg/L	0.002242	0.00169 mg/L	0.002242	133.02%
V 290.880†	112.5	0.00114 mg/L	0.000378	0.00114 mg/L	0.000378	33.08%
Zn 206.200†	55.7	0.00175 mg/L	0.000145	0.00175 mg/L	0.000145	8.32%
K 766.490†	63.8	0.00279 mg/L	0.007080	0.00279 mg/L	0.007080	253.45%
Na 589.592†	170.9	-0.00325 mg/L	0.009104	-0.00325 mg/L	0.009104	280.18%
Sr 407.771†	-3.7	0.00020 mg/L	0.000063	0.00020 mg/L	0.000063	31.72%
Li 670.784†	-155.4	-0.00126 mg/L	0.000963	-0.00126 mg/L	0.000963	76.15%

Sequence No.: 52 **Autosampler Location: 89**
Sample ID: LCSW 2C WG356765-03 **Date Collected: 2/21/2011 8:50:50 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 2C WG356765-03

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: LCSW 2C WG356765-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5036972.8						60952.01	1.21%
YRADIAL	301179.2						2597.67	0.86%
Ga 417.206	1246598.1						26433.85	2.12%
GaRADIAL	58340.4						1083.43	1.86%
Ag 328.068†	39714.6	0.198	mg/L	0.0041	0.198	mg/L	0.0041	2.06%
Al 396.153†	26726.5	5.20	mg/L	0.023	5.20	mg/L	0.023	0.43%
As 188.979†	207.0	0.193	mg/L	0.0058	0.193	mg/L	0.0058	3.01%
Ba 233.527†	29470.1	0.517	mg/L	0.0051	0.517	mg/L	0.0051	0.99%
Be 234.861†	14068.5	0.0251	mg/L	0.00047	0.0251	mg/L	0.00047	1.88%
B 249.677†	52811.0	1.00	mg/L	0.018	1.00	mg/L	0.018	1.78%
Ca 227.546†	506.0	5.04	mg/L	0.103	5.04	mg/L	0.103	2.04%
Cd 228.802†	428.2	0.0247	mg/L	0.00061	0.0247	mg/L	0.00061	2.46%
Co 228.616†	1927.1	0.102	mg/L	0.0013	0.102	mg/L	0.0013	1.24%
Cr 267.716†	28538.1	0.255	mg/L	0.0039	0.255	mg/L	0.0039	1.54%
Cu 327.393†	35845.0	0.251	mg/L	0.0054	0.251	mg/L	0.0054	2.14%
Fe 239.562†	943.9	2.07	mg/L	0.045	2.07	mg/L	0.045	2.19%
Mg 279.077†	4311.8	5.21	mg/L	0.073	5.21	mg/L	0.073	1.41%
Mn 257.610†	113722.5	0.262	mg/L	0.0034	0.262	mg/L	0.0034	1.29%
Mo 202.031†	6672.5	0.508	mg/L	0.0040	0.508	mg/L	0.0040	0.79%
Ni 231.604†	8647.6	0.259	mg/L	0.0022	0.259	mg/L	0.0022	0.85%
Pb 220.353†	1473.5	0.267	mg/L	0.0033	0.267	mg/L	0.0033	1.24%
Sb 206.836†	929.2	0.595	mg/L	0.0134	0.595	mg/L	0.0134	2.25%
Se 196.026†	279.4	0.202	mg/L	0.0026	0.202	mg/L	0.0026	1.27%
Si 251.611†	86726.2	2.57	mg/L	0.043	2.57	mg/L	0.043	1.69%
Sn 189.927†	2803.7	0.500	mg/L	0.0060	0.500	mg/L	0.0060	1.19%
Ti 334.940†	365123.3	0.508	mg/L	0.0014	0.508	mg/L	0.0014	0.27%
Tl 190.801†	426.2	0.265	mg/L	0.0089	0.265	mg/L	0.0089	3.37%
V 290.880†	74655.9	0.509	mg/L	0.0073	0.509	mg/L	0.0073	1.43%
Zn 206.200†	16212.1	0.512	mg/L	0.0081	0.512	mg/L	0.0081	1.59%
K 766.490†	67441.7	25.2	mg/L	0.14	25.2	mg/L	0.14	0.54%
Na 589.592†	349047.9	25.4	mg/L	0.30	25.4	mg/L	0.30	1.18%
Sr 407.771†	550235.2	0.511	mg/L	0.0391	0.511	mg/L	0.0391	7.66%
Li 670.784†	42499.8	0.510	mg/L	0.0026	0.510	mg/L	0.0026	0.51%

Sequence No.: 53 **Autosampler Location: 90**
Sample ID: L1102040202 **Date Collected: 2/21/2011 8:57:29 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 22, 2011

Pierre Morris

Nebulizer Parameters: L1102040202

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040202

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5175044.9						50741.21	0.98%
YRADIAL	311849.3						6322.43	2.03%
Ga 417.206	1296141.7						7374.25	0.57%
GaRADIAL	60925.2						301.19	0.49%
Ag 328.068†	94.7	-0.00019	mg/L	0.000387	-0.00019	mg/L	0.000387	206.28%
Al 396.153†	862.0	0.172	mg/L	0.0080	0.172	mg/L	0.0080	4.64%
As 188.979†	0.1	-0.00028	mg/L	0.000812	-0.00028	mg/L	0.000812	287.98%
Ba 233.527†	586.1	0.00993	mg/L	0.000034	0.00993	mg/L	0.000034	0.34%
Be 234.861†	54.5	0.00006	mg/L	0.000005	0.00006	mg/L	0.000005	8.52%
B 249.677†	692.5	0.0151	mg/L	0.00045	0.0151	mg/L	0.00045	2.95%
Ca 227.546†	172.3	1.67	mg/L	0.021	1.67	mg/L	0.021	1.26%
Cd 228.802†	0.8	-0.00007	mg/L	0.000057	-0.00007	mg/L	0.000057	79.36%
Co 228.616†	7.2	0.00034	mg/L	0.000025	0.00034	mg/L	0.000025	7.53%
Cr 267.716†	40.6	0.00019	mg/L	0.000151	0.00019	mg/L	0.000151	80.33%
Cu 327.393†	66.0	0.00068	mg/L	0.000315	0.00068	mg/L	0.000315	46.14%
Fe 239.562†	82.7	0.184	mg/L	0.0011	0.184	mg/L	0.0011	0.60%
Mg 279.077†	669.2	0.822	mg/L	0.0106	0.822	mg/L	0.0106	1.29%
Mn 257.610†	5594.2	0.0135	mg/L	0.00024	0.0135	mg/L	0.00024	1.79%
Mo 202.031†	0.1	-0.00002	mg/L	0.000277	-0.00002	mg/L	0.000277	>999.9%
Ni 231.604†	19.1	0.00072	mg/L	0.000234	0.00072	mg/L	0.000234	32.43%
Pb 220.353†	5.0	-0.00104	mg/L	0.000774	-0.00104	mg/L	0.000774	74.26%
Sb 206.836†	-0.3	0.00106	mg/L	0.001320	0.00106	mg/L	0.001320	124.85%
Se 196.026†	-2.6	-0.00031	mg/L	0.001595	-0.00031	mg/L	0.001595	512.79%
Si 251.611†	146425.6	4.35	mg/L	0.075	4.35	mg/L	0.075	1.72%
Sn 189.927†	7.1	0.00016	mg/L	0.001114	0.00016	mg/L	0.001114	675.29%
Ti 334.940†	2025.3	0.00285	mg/L	0.000887	0.00285	mg/L	0.000887	31.14%
Tl 190.801†	-0.2	0.00172	mg/L	0.002759	0.00172	mg/L	0.002759	160.13%
V 290.880†	-22.1	0.00024	mg/L	0.001565	0.00024	mg/L	0.001565	651.94%
Zn 206.200†	141.2	0.00444	mg/L	0.000027	0.00444	mg/L	0.000027	0.62%
K 766.490†	1115.5	0.396	mg/L	0.0214	0.396	mg/L	0.0214	5.41%
Na 589.592†	23350.9	1.68	mg/L	0.015	1.68	mg/L	0.015	0.88%
Sr 407.771†	13066.2	0.0123	mg/L	0.00094	0.0123	mg/L	0.00094	7.62%
Li 670.784†	-7.4	0.00051	mg/L	0.000129	0.00051	mg/L	0.000129	25.23%

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Sequence No.: 54 **Autosampler Location: 91**
Sample ID: L1102040202PS WG356832-01 **Date Collected: 2/21/2011 9:04:08 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040202PS WG356832-01

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040202PS WG356832-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5062308.9						59137.84	1.17%
YRADIAL	308160.5						3167.76	1.03%
Ga 417.206	1225860.7						17642.05	1.44%
GaRADIAL	59654.9						1097.57	1.84%
Ag 328.068†	39684.6	0.198	mg/L	0.0037	0.198	mg/L	0.0037	1.86%
Al 396.153†	27348.8	5.32	mg/L	0.015	5.32	mg/L	0.015	0.28%
As 188.979†	211.3	0.197	mg/L	0.0052	0.197	mg/L	0.0052	2.62%
Ba 233.527†	29649.2	0.520	mg/L	0.0089	0.520	mg/L	0.0089	1.71%
Be 234.861†	14058.1	0.0251	mg/L	0.00038	0.0251	mg/L	0.00038	1.52%
B 249.677†	53046.8	1.01	mg/L	0.016	1.01	mg/L	0.016	1.61%
Ca 227.546†	682.2	6.71	mg/L	0.090	6.71	mg/L	0.090	1.34%
Cd 228.802†	429.5	0.0247	mg/L	0.00041	0.0247	mg/L	0.00041	1.64%
Co 228.616†	1901.3	0.100	mg/L	0.0010	0.100	mg/L	0.0010	0.96%
Cr 267.716†	28155.8	0.251	mg/L	0.0045	0.251	mg/L	0.0045	1.77%

Approved: February 22, 2011

Pierre Morris

Cu 327.393†	35681.4	0.250	mg/L	0.0051	0.250	mg/L	0.0051	2.04%
Fe 239.562†	981.5	2.16	mg/L	0.020	2.16	mg/L	0.020	0.93%
Mg 279.077†	4774.4	5.77	mg/L	0.076	5.77	mg/L	0.076	1.31%
Mn 257.610†	117722.5	0.272	mg/L	0.0043	0.272	mg/L	0.0043	1.58%
Mo 202.031†	6624.4	0.505	mg/L	0.0071	0.505	mg/L	0.0071	1.40%
Ni 231.604†	8519.0	0.255	mg/L	0.0045	0.255	mg/L	0.0045	1.77%
Pb 220.353†	1453.1	0.263	mg/L	0.0035	0.263	mg/L	0.0035	1.33%
Sb 206.836†	932.3	0.597	mg/L	0.0082	0.597	mg/L	0.0082	1.38%
Se 196.026†	273.1	0.198	mg/L	0.0012	0.198	mg/L	0.0012	0.62%
Si 251.611†	227819.3	6.76	mg/L	0.009	6.76	mg/L	0.009	0.13%
Sn 189.927†	-0.3	-0.00115	mg/L	0.000456	-0.00115	mg/L	0.000456	39.59%
Ti 334.940†	366193.3	0.509	mg/L	0.0020	0.509	mg/L	0.0020	0.40%
Tl 190.801†	414.9	0.259	mg/L	0.0037	0.259	mg/L	0.0037	1.43%
V 290.880†	73506.1	0.501	mg/L	0.0089	0.501	mg/L	0.0089	1.77%
Zn 206.200†	16123.2	0.509	mg/L	0.0070	0.509	mg/L	0.0070	1.38%
K 766.490†	68111.7	25.5	mg/L	0.07	25.5	mg/L	0.07	0.27%
Na 589.592†	367372.3	26.7	mg/L	0.19	26.7	mg/L	0.19	0.70%
Sr 407.771†	556217.4	0.516	mg/L	0.0326	0.516	mg/L	0.0326	6.30%
Li 670.784†	42700.8	0.513	mg/L	0.0015	0.513	mg/L	0.0015	0.30%

Sequence No.: 55 **Autosampler Location: 92**
Sample ID: L1102040202DL WG356832-02 **Date Collected: 2/21/2011 9:10:50 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040202DL WG356832-02

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040202DL WG356832-02

	Mean Corrected		Calib.			Sample		
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	5204461.4						72959.75	1.40%
YRADIAL	310706.8						9564.65	3.08%
Ga 417.206	1267177.9						14581.78	1.15%
GaRADIAL	60310.8						364.36	0.60%
Ag 328.068†	27.9	-0.00051	mg/L	0.000409	-0.00051	mg/L	0.000409	80.08%
Al 396.153†	152.3	0.0338	mg/L	0.00984	0.0338	mg/L	0.00984	29.13%
As 188.979†	-3.0	-0.00317	mg/L	0.000859	-0.00317	mg/L	0.000859	27.05%
Ba 233.527†	116.9	0.00173	mg/L	0.000089	0.00173	mg/L	0.000089	5.13%
Be 234.861†	19.4	0.00003	mg/L	0.000029	0.00003	mg/L	0.000029	94.21%
B 249.677†	802.5	0.0166	mg/L	0.00078	0.0166	mg/L	0.00078	4.71%
Ca 227.546†	37.7	0.398	mg/L	0.0607	0.398	mg/L	0.0607	15.25%
Cd 228.802†	1.1	-0.00004	mg/L	0.000094	-0.00004	mg/L	0.000094	252.69%
Co 228.616†	4.9	0.00022	mg/L	0.000193	0.00022	mg/L	0.000193	86.54%
Cr 267.716†	-3.8	-0.00020	mg/L	0.000100	-0.00020	mg/L	0.000100	49.81%
Cu 327.393†	31.4	0.00042	mg/L	0.000579	0.00042	mg/L	0.000579	137.46%
Fe 239.562†	13.3	0.0319	mg/L	0.00357	0.0319	mg/L	0.00357	11.20%
Mg 279.077†	119.1	0.160	mg/L	0.0105	0.160	mg/L	0.0105	6.54%
Mn 257.610†	1248.2	0.00285	mg/L	0.000057	0.00285	mg/L	0.000057	2.01%
Mo 202.031†	2.0	0.00011	mg/L	0.000264	0.00011	mg/L	0.000264	230.12%
Ni 231.604†	6.1	0.00033	mg/L	0.000624	0.00033	mg/L	0.000624	186.90%
Pb 220.353†	5.8	-0.00096	mg/L	0.001342	-0.00096	mg/L	0.001342	139.46%
Sb 206.836†	-1.1	0.00055	mg/L	0.002906	0.00055	mg/L	0.002906	523.95%
Se 196.026†	1.8	0.00250	mg/L	0.005044	0.00250	mg/L	0.005044	201.40%
Si 251.611†	30489.0	0.903	mg/L	0.0092	0.903	mg/L	0.0092	1.02%
Sn 189.927†	11.0	0.00087	mg/L	0.000628	0.00087	mg/L	0.000628	72.05%
Ti 334.940†	391.3	0.00056	mg/L	0.000065	0.00056	mg/L	0.000065	11.52%
Tl 190.801†	-3.3	-0.00012	mg/L	0.002496	-0.00012	mg/L	0.002496	>999.9%
V 290.880†	-66.9	-0.00008	mg/L	0.000528	-0.00008	mg/L	0.000528	693.89%
Zn 206.200†	76.4	0.00240	mg/L	0.000168	0.00240	mg/L	0.000168	7.02%
K 766.490†	287.0	0.0862	mg/L	0.01480	0.0862	mg/L	0.01480	17.17%
Na 589.592†	5086.2	0.353	mg/L	0.0046	0.353	mg/L	0.0046	1.31%
Sr 407.771†	2592.6	0.00260	mg/L	0.000244	0.00260	mg/L	0.000244	9.35%
Li 670.784†	12.6	0.00075	mg/L	0.001753	0.00075	mg/L	0.001753	233.76%

Sequence No.: 56 **Autosampler Location: 93**
Sample ID: L1102040207 WG356765-01 **Date Collected: 2/21/2011 9:17:28 PM**

Approved: February 22, 2011

Pierre Morris

Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040207 WG356765-01

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102040207 WG356765-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5202772.0						53914.71	1.04%
YRADIAL	315872.4						8120.46	2.57%
Ga 417.206	1284792.4						24583.60	1.91%
GaRADIAL	61535.6						809.97	1.32%
Ag 328.068†	99.5	-0.00016	mg/L	0.000297	-0.00016	mg/L	0.000297	182.31%
Al 396.153†	695.2	0.140	mg/L	0.0076	0.140	mg/L	0.0076	5.43%
As 188.979†	0.2	-0.00021	mg/L	0.001610	-0.00021	mg/L	0.001610	781.98%
Ba 233.527†	523.0	0.00883	mg/L	0.000066	0.00883	mg/L	0.000066	0.75%
Be 234.861†	38.1	0.00004	mg/L	0.000045	0.00004	mg/L	0.000045	112.66%
B 249.677†	676.6	0.0147	mg/L	0.00067	0.0147	mg/L	0.00067	4.58%
Ca 227.546†	168.0	1.63	mg/L	0.023	1.63	mg/L	0.023	1.44%
Cd 228.802†	0.4	-0.00010	mg/L	0.000138	-0.00010	mg/L	0.000138	140.20%
Co 228.616†	2.7	0.00010	mg/L	0.000205	0.00010	mg/L	0.000205	205.82%
Cr 267.716†	70.7	0.00046	mg/L	0.000059	0.00046	mg/L	0.000059	12.84%
Cu 327.393†	103.6	0.00094	mg/L	0.000287	0.00094	mg/L	0.000287	30.44%
Fe 239.562†	68.9	0.154	mg/L	0.0031	0.154	mg/L	0.0031	2.04%
Mg 279.077†	697.6	0.857	mg/L	0.0090	0.857	mg/L	0.0090	1.05%
Mn 257.610†	4988.9	0.0121	mg/L	0.00022	0.0121	mg/L	0.00022	1.82%
Mo 202.031†	-3.2	-0.00027	mg/L	0.000124	-0.00027	mg/L	0.000124	45.81%
Ni 231.604†	22.3	0.00082	mg/L	0.000188	0.00082	mg/L	0.000188	23.04%
Pb 220.353†	2.0	-0.00159	mg/L	0.001847	-0.00159	mg/L	0.001847	115.80%
Sb 206.836†	0.3	0.00143	mg/L	0.000559	0.00143	mg/L	0.000559	39.07%
Se 196.026†	-3.2	-0.00075	mg/L	0.001792	-0.00075	mg/L	0.001792	238.45%
Si 251.611†	158151.8	4.70	mg/L	0.090	4.70	mg/L	0.090	1.91%
Sn 189.927†	6.6	0.00008	mg/L	0.000279	0.00008	mg/L	0.000279	334.14%
Ti 334.940†	1641.0	0.00231	mg/L	0.000201	0.00231	mg/L	0.000201	8.68%
Tl 190.801†	-2.7	0.00020	mg/L	0.001356	0.00020	mg/L	0.001356	682.66%
V 290.880†	-96.0	-0.00027	mg/L	0.001031	-0.00027	mg/L	0.001031	388.64%
Zn 206.200†	122.5	0.00385	mg/L	0.000077	0.00385	mg/L	0.000077	2.00%
K 766.490†	1064.4	0.377	mg/L	0.0060	0.377	mg/L	0.0060	1.59%
Na 589.592†	25104.9	1.81	mg/L	0.016	1.81	mg/L	0.016	0.87%
Sr 407.771†	12969.3	0.0122	mg/L	0.00074	0.0122	mg/L	0.00074	6.05%
Li 670.784†	125.8	0.00211	mg/L	0.000364	0.00211	mg/L	0.000364	17.27%

Sequence No.: 57 **Autosampler Location: 94**
Sample ID: L1102040208S WG356765-04 **Date Collected: 2/21/2011 9:24:07 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040208S WG356765-04

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040208S WG356765-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5142368.6						18551.48	0.36%
YRADIAL	308721.3						3490.59	1.13%
Ga 417.206	1255110.3						5528.96	0.44%
GaRADIAL	60290.1						858.66	1.42%
Ag 328.068†	39058.5	0.195	mg/L	0.0016	0.195	mg/L	0.0016	0.80%
Al 396.153†	26711.1	5.20	mg/L	0.023	5.20	mg/L	0.023	0.44%
As 188.979†	208.0	0.194	mg/L	0.0005	0.194	mg/L	0.0005	0.25%
Ba 233.527†	29177.5	0.511	mg/L	0.0062	0.511	mg/L	0.0062	1.21%
Be 234.861†	13878.5	0.0247	mg/L	0.00021	0.0247	mg/L	0.00021	0.86%
B 249.677†	51767.5	0.982	mg/L	0.0065	0.982	mg/L	0.0065	0.66%

Approved: February 22, 2011

Pierre Morris

Ca 227.546†	676.4	6.65 mg/L	0.028	6.65 mg/L	0.028	0.43%
Cd 228.802†	425.6	0.0245 mg/L	0.00016	0.0245 mg/L	0.00016	0.66%
Co 228.616†	1893.7	0.0999 mg/L	0.00088	0.0999 mg/L	0.00088	0.88%
Cr 267.716†	27687.4	0.247 mg/L	0.0019	0.247 mg/L	0.0019	0.75%
Cu 327.393†	35262.1	0.247 mg/L	0.0020	0.247 mg/L	0.0020	0.83%
Fe 239.562†	992.6	2.18 mg/L	0.033	2.18 mg/L	0.033	1.50%
Mg 279.077†	4909.2	5.93 mg/L	0.068	5.93 mg/L	0.068	1.15%
Mn 257.610†	115789.8	0.268 mg/L	0.0028	0.268 mg/L	0.0028	1.05%
Mo 202.031†	6481.9	0.494 mg/L	0.0048	0.494 mg/L	0.0048	0.97%
Ni 231.604†	8382.3	0.251 mg/L	0.0011	0.251 mg/L	0.0011	0.42%
Pb 220.353†	1448.5	0.262 mg/L	0.0022	0.262 mg/L	0.0022	0.84%
Sb 206.836†	920.8	0.590 mg/L	0.0020	0.590 mg/L	0.0020	0.35%
Se 196.026†	268.3	0.194 mg/L	0.0028	0.194 mg/L	0.0028	1.42%
Si 251.611†	248056.0	7.36 mg/L	0.048	7.36 mg/L	0.048	0.65%
Sn 189.927†	3003.5	0.536 mg/L	0.0020	0.536 mg/L	0.0020	0.38%
Ti 334.940†	363677.6	0.506 mg/L	0.0013	0.506 mg/L	0.0013	0.25%
Tl 190.801†	419.9	0.261 mg/L	0.0019	0.261 mg/L	0.0019	0.71%
V 290.880†	72291.8	0.493 mg/L	0.0056	0.493 mg/L	0.0056	1.13%
Zn 206.200†	15666.6	0.495 mg/L	0.0070	0.495 mg/L	0.0070	1.41%
K 766.490†	67921.5	25.4 mg/L	0.08	25.4 mg/L	0.08	0.32%
Na 589.592†	370597.9	26.9 mg/L	0.36	26.9 mg/L	0.36	1.33%
Sr 407.771†	562665.4	0.522 mg/L	0.0405	0.522 mg/L	0.0405	7.75%
Li 670.784†	42132.6	0.506 mg/L	0.0035	0.506 mg/L	0.0035	0.69%

Sequence No.: 58 **Autosampler Location: 95**
Sample ID: L1102040209SD WG356765-05 **Date Collected: 2/21/2011 9:30:51 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040209SD WG356765-05

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040209SD WG356765-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5040784.9						40721.54	0.81%
YRADIAL	310398.0						7662.32	2.47%
Ga 417.206	1233263.0						12460.74	1.01%
GaRADIAL	60326.0						1632.07	2.71%
Ag 328.068†	40013.0	0.200	mg/L	0.0041	0.200	mg/L	0.0041	2.05%
Al 396.153†	27697.7	5.39	mg/L	0.013	5.39	mg/L	0.013	0.25%
As 188.979†	211.3	0.197	mg/L	0.0017	0.197	mg/L	0.0017	0.84%
Ba 233.527†	30131.8	0.528	mg/L	0.0088	0.528	mg/L	0.0088	1.67%
Be 234.861†	14269.5	0.0255	mg/L	0.00036	0.0255	mg/L	0.00036	1.42%
B 249.677†	53523.8	1.02	mg/L	0.022	1.02	mg/L	0.022	2.15%
Ca 227.546†	696.9	6.85	mg/L	0.047	6.85	mg/L	0.047	0.68%
Cd 228.802†	436.9	0.0252	mg/L	0.00036	0.0252	mg/L	0.00036	1.44%
Co 228.616†	1967.0	0.104	mg/L	0.0012	0.104	mg/L	0.0012	1.18%
Cr 267.716†	28754.9	0.257	mg/L	0.0037	0.257	mg/L	0.0037	1.43%
Cu 327.393†	36068.5	0.253	mg/L	0.0067	0.253	mg/L	0.0067	2.66%
Fe 239.562†	1006.0	2.21	mg/L	0.065	2.21	mg/L	0.065	2.92%
Mg 279.077†	4986.9	6.02	mg/L	0.169	6.02	mg/L	0.169	2.80%
Mn 257.610†	119422.9	0.276	mg/L	0.0034	0.276	mg/L	0.0034	1.24%
Mo 202.031†	6675.5	0.509	mg/L	0.0071	0.509	mg/L	0.0071	1.39%
Ni 231.604†	8639.7	0.259	mg/L	0.0035	0.259	mg/L	0.0035	1.35%
Pb 220.353†	1495.5	0.271	mg/L	0.0024	0.271	mg/L	0.0024	0.89%
Sb 206.836†	950.5	0.609	mg/L	0.0064	0.609	mg/L	0.0064	1.05%
Se 196.026†	284.8	0.206	mg/L	0.0003	0.206	mg/L	0.0003	0.15%
Si 251.611†	251726.1	7.47	mg/L	0.081	7.47	mg/L	0.081	1.08%
Sn 189.927†	3258.8	0.582	mg/L	0.0061	0.582	mg/L	0.0061	1.05%
Ti 334.940†	370710.6	0.515	mg/L	0.0024	0.515	mg/L	0.0024	0.46%
Tl 190.801†	432.5	0.269	mg/L	0.0052	0.269	mg/L	0.0052	1.92%
V 290.880†	74546.1	0.508	mg/L	0.0088	0.508	mg/L	0.0088	1.74%
Zn 206.200†	16344.5	0.516	mg/L	0.0025	0.516	mg/L	0.0025	0.48%
K 766.490†	68817.7	25.8	mg/L	0.17	25.8	mg/L	0.17	0.64%
Na 589.592†	374549.1	27.2	mg/L	0.18	27.2	mg/L	0.18	0.67%
Sr 407.771†	574200.8	0.533	mg/L	0.0322	0.533	mg/L	0.0322	6.05%
Li 670.784†	43254.6	0.519	mg/L	0.0036	0.519	mg/L	0.0036	0.69%

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Sequence No.: 59 **Autosampler Location: 96**
Sample ID: L1102040214 **Date Collected: 2/21/2011 9:37:32 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040214

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040214

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5117581.0						10530.18	0.21%
YRADIAL	319025.5						8510.81	2.67%
Ga 417.206	1259870.9						4329.00	0.34%
GaRADIAL	62359.7						895.39	1.44%
Ag 328.068†	96.7	-0.00018	mg/L	0.000214	-0.00018	mg/L	0.000214	118.16%
Al 396.153†	504.7	0.102	mg/L	0.0270	0.102	mg/L	0.0270	26.36%
As 188.979†	0.3	-0.00009	mg/L	0.002289	-0.00009	mg/L	0.002289	>999.9%
Ba 233.527†	584.7	0.00991	mg/L	0.000026	0.00991	mg/L	0.000026	0.26%
Be 234.861†	27.1	0.00001	mg/L	0.000020	0.00001	mg/L	0.000020	179.86%
B 249.677†	1067.1	0.0223	mg/L	0.00063	0.0223	mg/L	0.00063	2.81%
Ca 227.546†	207.3	2.01	mg/L	0.057	2.01	mg/L	0.057	2.85%
Cd 228.802†	1.9	-0.00001	mg/L	0.000181	-0.00001	mg/L	0.000181	>999.9%
Co 228.616†	2.3	0.00007	mg/L	0.000245	0.00007	mg/L	0.000245	330.85%
Cr 267.716†	52.3	0.00029	mg/L	0.000045	0.00029	mg/L	0.000045	15.50%
Cu 327.393†	-6.5	0.00018	mg/L	0.000460	0.00018	mg/L	0.000460	257.64%
Fe 239.562†	92.0	0.205	mg/L	0.0067	0.205	mg/L	0.0067	3.30%
Mg 279.077†	829.0	1.01	mg/L	0.020	1.01	mg/L	0.020	2.00%
Mn 257.610†	8336.1	0.0199	mg/L	0.00054	0.0199	mg/L	0.00054	2.72%
Mo 202.031†	-4.2	-0.00034	mg/L	0.000215	-0.00034	mg/L	0.000215	62.50%
Ni 231.604†	22.5	0.00082	mg/L	0.000253	0.00082	mg/L	0.000253	30.70%
Pb 220.353†	8.8	-0.00035	mg/L	0.001579	-0.00035	mg/L	0.001579	456.35%
Sb 206.836†	4.0	0.00378	mg/L	0.000616	0.00378	mg/L	0.000616	16.28%
Se 196.026†	4.8	0.00512	mg/L	0.000562	0.00512	mg/L	0.000562	10.99%
Si 251.611†	177576.0	5.28	mg/L	0.025	5.28	mg/L	0.025	0.48%
Sn 189.927†	10.9	0.00084	mg/L	0.000241	0.00084	mg/L	0.000241	28.69%
Ti 334.940†	1674.0	0.00236	mg/L	0.000512	0.00236	mg/L	0.000512	21.67%
Tl 190.801†	-0.9	0.00127	mg/L	0.002039	0.00127	mg/L	0.002039	160.64%
V 290.880†	-95.9	-0.00026	mg/L	0.000791	-0.00026	mg/L	0.000791	303.61%
Zn 206.200†	92.4	0.00290	mg/L	0.000105	0.00290	mg/L	0.000105	3.62%
K 766.490†	1370.1	0.491	mg/L	0.0441	0.491	mg/L	0.0441	8.99%
Na 589.592†	31655.8	2.28	mg/L	0.015	2.28	mg/L	0.015	0.67%
Sr 407.771†	16312.4	0.0153	mg/L	0.00141	0.0153	mg/L	0.00141	9.18%
Li 670.784†	37.2	0.00104	mg/L	0.000639	0.00104	mg/L	0.000639	61.21%

Sequence No.: 60 **Autosampler Location: 97**
Sample ID: L1102040217 **Date Collected: 2/21/2011 9:44:11 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040217

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102040217

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5228937.6						65752.82	1.26%
YRADIAL	313349.9						7933.31	2.53%
Ga 417.206	1310460.2						19375.24	1.48%
GaRADIAL	61890.8						246.41	0.40%
Ag 328.068†	6.1	-0.00063	mg/L	0.000731	-0.00063	mg/L	0.000731	115.51%
Al 396.153†	560.2	0.113	mg/L	0.0062	0.113	mg/L	0.0062	5.43%

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As 188.979†	-0.5	-0.00082 mg/L	0.002767	-0.00082 mg/L	0.002767	337.88%
Ba 233.527†	559.6	0.00947 mg/L	0.000073	0.00947 mg/L	0.000073	0.77%
Be 234.861†	52.6	0.00006 mg/L	0.000014	0.00006 mg/L	0.000014	25.93%
B 249.677†	872.5	0.0186 mg/L	0.00044	0.0186 mg/L	0.00044	2.34%
Ca 227.546†	193.1	1.87 mg/L	0.054	1.87 mg/L	0.054	2.90%
Cd 228.802†	1.3	-0.00004 mg/L	0.000172	-0.00004 mg/L	0.000172	414.24%
Co 228.616†	1.7	0.00005 mg/L	0.000224	0.00005 mg/L	0.000224	493.02%
Cr 267.716†	64.9	0.00040 mg/L	0.000079	0.00040 mg/L	0.000079	19.46%
Cu 327.393†	121.2	0.00107 mg/L	0.000232	0.00107 mg/L	0.000232	21.65%
Fe 239.562†	93.9	0.209 mg/L	0.0014	0.209 mg/L	0.0014	0.66%
Mg 279.077†	823.3	1.01 mg/L	0.029	1.01 mg/L	0.029	2.89%
Mn 257.610†	7899.1	0.0189 mg/L	0.00028	0.0189 mg/L	0.00028	1.48%
Mo 202.031†	0.7	0.00003 mg/L	0.000095	0.00003 mg/L	0.000095	365.25%
Ni 231.604†	23.5	0.00085 mg/L	0.000042	0.00085 mg/L	0.000042	4.89%
Pb 220.353†	3.6	-0.00129 mg/L	0.001826	-0.00129 mg/L	0.001826	141.76%
Sb 206.836†	-1.6	0.00024 mg/L	0.000905	0.00024 mg/L	0.000905	378.19%
Se 196.026†	-4.5	-0.00160 mg/L	0.003725	-0.00160 mg/L	0.003725	232.51%
Si 251.611†	170877.3	5.08 mg/L	0.068	5.08 mg/L	0.068	1.34%
Sn 189.927†	7.2	0.00019 mg/L	0.000899	0.00019 mg/L	0.000899	480.89%
Ti 334.940†	1662.2	0.00234 mg/L	0.000491	0.00234 mg/L	0.000491	20.93%
Tl 190.801†	3.6	0.00397 mg/L	0.000471	0.00397 mg/L	0.000471	11.87%
V 290.880†	-53.8	0.00003 mg/L	0.000987	0.00003 mg/L	0.000987	>999.9%
Zn 206.200†	107.3	0.00337 mg/L	0.000179	0.00337 mg/L	0.000179	5.32%
K 766.490†	1250.4	0.446 mg/L	0.0259	0.446 mg/L	0.0259	5.82%
Na 589.592†	30771.0	2.22 mg/L	0.026	2.22 mg/L	0.026	1.16%
Sr 407.771†	16623.7	0.0156 mg/L	0.00115	0.0156 mg/L	0.00115	7.39%
Li 670.784†	68.7	0.00142 mg/L	0.000764	0.00142 mg/L	0.000764	53.73%

Sequence No.: 61 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 9:50:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4916525.2						16859.13	0.34%
YRADIAL	297743.1						6521.14	2.19%
Ga 417.206	1189999.0						5552.55	0.47%
GaRADIAL	58014.3						571.43	0.98%
Ag 328.068†	80007.5	0.400	mg/L	0.0023	0.400	mg/L	0.0023	0.57%
QC value within limits for Ag 328.068 Recovery = 100.02%								
Al 396.153†	51957.1	10.1	mg/L	0.07	10.1	mg/L	0.07	0.69%
QC value within limits for Al 396.153 Recovery = 101.10%								
As 188.979†	430.6	0.402	mg/L	0.0004	0.402	mg/L	0.0004	0.09%
QC value within limits for As 188.979 Recovery = 100.40%								
Ba 233.527†	58432.3	1.02	mg/L	0.005	1.02	mg/L	0.005	0.48%
QC value within limits for Ba 233.527 Recovery = 102.45%								
Be 234.861†	28649.8	0.0512	mg/L	0.00020	0.0512	mg/L	0.00020	0.39%
QC value within limits for Be 234.861 Recovery = 102.34%								
B 249.677†	27184.6	0.521	mg/L	0.0027	0.521	mg/L	0.0027	0.52%
QC value within limits for B 249.677 Recovery = 104.16%								
Ca 227.546†	1035.9	10.3	mg/L	0.09	10.3	mg/L	0.09	0.84%
QC value within limits for Ca 227.546 Recovery = 102.64%								
Cd 228.802†	874.0	0.0504	mg/L	0.00031	0.0504	mg/L	0.00031	0.62%
QC value within limits for Cd 228.802 Recovery = 100.81%								
Co 228.616†	3856.3	0.203	mg/L	0.0016	0.203	mg/L	0.0016	0.77%
QC value within limits for Co 228.616 Recovery = 101.73%								
Cr 267.716†	57049.3	0.510	mg/L	0.0017	0.510	mg/L	0.0017	0.33%
QC value within limits for Cr 267.716 Recovery = 101.94%								
Cu 327.393†	72494.5	0.507	mg/L	0.0038	0.507	mg/L	0.0038	0.75%
QC value within limits for Cu 327.393 Recovery = 101.48%								
Fe 239.562†	1825.0	4.01	mg/L	0.072	4.01	mg/L	0.072	1.80%
QC value within limits for Fe 239.562 Recovery = 100.21%								
Mg 279.077†	8280.2	9.99	mg/L	0.184	9.99	mg/L	0.184	1.84%

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QC value within limits for Mg 279.077 Recovery = 99.87%

Mn 257.610†	222719.4	0.514 mg/L	0.0014	0.514 mg/L	0.0014	0.28%
QC value within limits for Mn 257.610 Recovery = 102.78%						
Mo 202.031†	13319.4	1.01 mg/L	0.003	1.01 mg/L	0.003	0.28%
QC value within limits for Mo 202.031 Recovery = 101.47%						
Ni 231.604†	17052.9	0.510 mg/L	0.0011	0.510 mg/L	0.0011	0.21%
QC value within limits for Ni 231.604 Recovery = 102.04%						
Pb 220.353†	2946.1	0.536 mg/L	0.0046	0.536 mg/L	0.0046	0.86%
QC value within limits for Pb 220.353 Recovery = 107.15%						
Sb 206.836†	1880.7	1.20 mg/L	0.006	1.20 mg/L	0.006	0.47%
QC value within limits for Sb 206.836 Recovery = 100.32%						
Se 196.026†	554.1	0.399 mg/L	0.0067	0.399 mg/L	0.0067	1.68%
QC value within limits for Se 196.026 Recovery = 99.82%						
Si 251.611†	169706.7	5.03 mg/L	0.019	5.03 mg/L	0.019	0.38%
QC value within limits for Si 251.611 Recovery = 100.52%						
Sn 189.927†	5858.8	1.05 mg/L	0.008	1.05 mg/L	0.008	0.72%
QC value within limits for Sn 189.927 Recovery = 104.66%						
Ti 334.940†	731511.8	1.02 mg/L	0.004	1.02 mg/L	0.004	0.44%
QC value within limits for Ti 334.940 Recovery = 101.70%						
Tl 190.801†	846.4	0.525 mg/L	0.0018	0.525 mg/L	0.0018	0.35%
QC value within limits for Tl 190.801 Recovery = 105.06%						
V 290.880†	148571.4	1.01 mg/L	0.004	1.01 mg/L	0.004	0.39%
QC value within limits for V 290.880 Recovery = 101.25%						
Zn 206.200†	32494.6	1.03 mg/L	0.005	1.03 mg/L	0.005	0.53%
QC value within limits for Zn 206.200 Recovery = 102.65%						
K 766.490†	133355.0	49.9 mg/L	0.39	49.9 mg/L	0.39	0.77%
QC value within limits for K 766.490 Recovery = 99.80%						
Na 589.592†	682812.4	49.7 mg/L	0.47	49.7 mg/L	0.47	0.94%
QC value within limits for Na 589.592 Recovery = 99.46%						
Sr 407.771†	1059560.7	0.984 mg/L	0.0613	0.984 mg/L	0.0613	6.23%
QC value within limits for Sr 407.771 Recovery = 98.35%						
Li 670.784†	83081.7	0.997 mg/L	0.0055	0.997 mg/L	0.0055	0.55%
QC value within limits for Li 670.784 Recovery = 99.68%						

All analyte(s) passed QC.

Sequence No.: 62 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 9:57:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5150991.1						94023.00	1.83%
YRADIAL	313036.5						8079.95	2.58%
Ga 417.206	1234444.9						41996.53	3.40%
GaRADIAL	60046.1						1072.20	1.79%
Ag 328.068†	136.8	0.00004	mg/L	0.000698	0.00004	mg/L	0.000698	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-54.3	-0.00646	mg/L	0.003330	-0.00646	mg/L	0.003330	51.58%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	3.2	0.00264	mg/L	0.001144	0.00264	mg/L	0.001144	43.30%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	4.0	-0.00025	mg/L	0.000073	-0.00025	mg/L	0.000073	29.56%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-12.1	-0.00002	mg/L	0.000053	-0.00002	mg/L	0.000053	307.56%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	779.8	0.0160	mg/L	0.00136	0.0160	mg/L	0.00136	8.47%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	1.7	0.0570	mg/L	0.05058	0.0570	mg/L	0.05058	88.73%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	2.5	0.00000	mg/L	0.000096	0.00000	mg/L	0.000096	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-1.2	-0.00010	mg/L	0.000178	-0.00010	mg/L	0.000178	185.87%
QC value within limits for Co 228.616 Recovery = Not calculated								

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Cr 267.716†	-6.1	-0.00022 mg/L	0.000240	-0.00022 mg/L	0.000240	109.15%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	11.0	0.00027 mg/L	0.000760	0.00027 mg/L	0.000760	276.78%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 239.562†	-2.9	-0.00352 mg/L	0.004672	-0.00352 mg/L	0.004672	132.71%	
QC value within limits for Fe 239.562 Recovery = Not calculated							
Mg 279.077†	-12.6	0.00172 mg/L	0.003504	0.00172 mg/L	0.003504	203.67%	
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	-5.8	-0.00019 mg/L	0.000027	-0.00019 mg/L	0.000027	14.48%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	6.0	0.00042 mg/L	0.000163	0.00042 mg/L	0.000163	38.62%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	-0.9	0.00012 mg/L	0.000111	0.00012 mg/L	0.000111	89.41%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	2.0	-0.00165 mg/L	0.000441	-0.00165 mg/L	0.000441	26.79%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-1.8	0.00014 mg/L	0.000773	0.00014 mg/L	0.000773	565.53%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.4	0.00138 mg/L	0.002060	0.00138 mg/L	0.002060	149.41%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	27.1	-0.00250 mg/L	0.000728	-0.00250 mg/L	0.000728	29.16%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	9.1	0.00052 mg/L	0.000535	0.00052 mg/L	0.000535	102.75%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-63.9	-0.00007 mg/L	0.000211	-0.00007 mg/L	0.000211	285.98%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-4.2	-0.00065 mg/L	0.003283	-0.00065 mg/L	0.003283	507.11%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	-76.1	-0.00014 mg/L	0.000454	-0.00014 mg/L	0.000454	318.13%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	-0.3	-0.00002 mg/L	0.000166	-0.00002 mg/L	0.000166	786.01%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	148.1	0.0344 mg/L	0.03757	0.0344 mg/L	0.03757	109.21%	
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	240.9	0.00183 mg/L	0.008179	0.00183 mg/L	0.008179	446.53%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	51.2	0.00025 mg/L	0.000082	0.00025 mg/L	0.000082	33.07%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	83.4	0.00160 mg/L	0.000906	0.00160 mg/L	0.000906	56.69%	
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 63 **Autosampler Location: 98**
Sample ID: L1102040220 **Date Collected: 2/21/2011 10:04:16 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040220

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102040220

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5245843.8						32741.64	0.62%
YRADIAL	312325.8						5848.37	1.87%
Ga 417.206	1296863.7						10760.39	0.83%
GaRADIAL	60710.2						1377.05	2.27%
Ag 328.068†	90.6	-0.00020	mg/L	0.000052	-0.00020	mg/L	0.000052	26.27%
Al 396.153†	-84.6	-0.0124	mg/L	0.01607	-0.0124	mg/L	0.01607	130.00%
As 188.979†	1.0	0.00059	mg/L	0.002576	0.00059	mg/L	0.002576	433.94%
Ba 233.527†	2.1	-0.00028	mg/L	0.000063	-0.00028	mg/L	0.000063	22.69%
Be 234.861†	5.4	0.00001	mg/L	0.000010	0.00001	mg/L	0.000010	83.63%
B 249.677†	578.8	0.0123	mg/L	0.00027	0.0123	mg/L	0.00027	2.20%
Ca 227.546†	-5.5	-0.0108	mg/L	0.04641	-0.0108	mg/L	0.04641	429.95%
Cd 228.802†	0.5	-0.00010	mg/L	0.000056	-0.00010	mg/L	0.000056	57.21%
Co 228.616†	2.3	0.00009	mg/L	0.000154	0.00009	mg/L	0.000154	171.29%
Cr 267.716†	48.9	0.00027	mg/L	0.000110	0.00027	mg/L	0.000110	40.45%
Cu 327.393†	44.7	0.00051	mg/L	0.000249	0.00051	mg/L	0.000249	48.81%

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Fe 239.562†	-2.0	-0.00154	mg/L	0.002518	-0.00154	mg/L	0.002518 163.63%
Mg 279.077†	-16.0	-0.00245	mg/L	0.003304	-0.00245	mg/L	0.003304 135.09%
Mn 257.610†	8.8	-0.00016	mg/L	0.000013	-0.00016	mg/L	0.000013 8.45%
Mo 202.031†	-0.6	-0.00008	mg/L	0.000326	-0.00008	mg/L	0.000326 384.69%
Ni 231.604†	3.5	0.00026	mg/L	0.000024	0.00026	mg/L	0.000024 9.45%
Pb 220.353†	1.4	-0.00177	mg/L	0.000938	-0.00177	mg/L	0.000938 53.10%
Sb 206.836†	-1.8	0.00011	mg/L	0.001101	0.00011	mg/L	0.001101 >999.9%
Se 196.026†	2.7	0.00302	mg/L	0.002579	0.00302	mg/L	0.002579 85.42%
Si 251.611†	115.7	0.00014	mg/L	0.000183	0.00014	mg/L	0.000183 127.01%
Sn 189.927†	10.5	0.00077	mg/L	0.000285	0.00077	mg/L	0.000285 36.77%
Ti 334.940†	89.9	0.00014	mg/L	0.000134	0.00014	mg/L	0.000134 95.84%
Tl 190.801†	-0.9	0.00137	mg/L	0.002398	0.00137	mg/L	0.002398 175.01%
V 290.880†	-126.9	-0.00049	mg/L	0.000222	-0.00049	mg/L	0.000222 45.50%
Zn 206.200†	61.7	0.00194	mg/L	0.000142	0.00194	mg/L	0.000142 7.32%
K 766.490†	124.4	0.0255	mg/L	0.01369	0.0255	mg/L	0.01369 53.68%
Na 589.592†	301.9	0.00625	mg/L	0.001168	0.00625	mg/L	0.001168 18.67%
Sr 407.771†	3.6	0.00020	mg/L	0.000012	0.00020	mg/L	0.000012 5.83%
Li 670.784†	-47.6	0.00003	mg/L	0.001009	0.00003	mg/L	0.001009 >999.9%

Sequence No.: 64 **Autosampler Location: 99**
Sample ID: L1102040223 **Date Collected: 2/21/2011 10:10:54 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102040223

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102040223

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5155850.6						14875.30	0.29%
YRADIAL	316913.6						8232.55	2.60%
Ga 417.206	1265225.3						7251.37	0.57%
GaRADIAL	60690.5						1141.22	1.88%
Ag 328.068†	73.8	-0.00028	mg/L	0.000305	-0.00028	mg/L	0.000305	109.51%
Al 396.153†	-40.5	-0.00376	mg/L	0.010042	-0.00376	mg/L	0.010042	267.00%
As 188.979†	0.4	0.00004	mg/L	0.001364	0.00004	mg/L	0.001364	>999.9%
Ba 233.527†	4.8	-0.00023	mg/L	0.000161	-0.00023	mg/L	0.000161	70.43%
Be 234.861†	-8.8	-0.00001	mg/L	0.000006	-0.00001	mg/L	0.000006	47.21%
B 249.677†	425.4	0.00937	mg/L	0.000411	0.00937	mg/L	0.000411	4.39%
Ca 227.546†	-2.3	0.0197	mg/L	0.05306	0.0197	mg/L	0.05306	269.41%
Cd 228.802†	2.1	0.00000	mg/L	0.000064	0.00000	mg/L	0.000064	>999.9%
Co 228.616†	2.8	0.00011	mg/L	0.000044	0.00011	mg/L	0.000044	38.69%
Cr 267.716†	14.9	-0.00003	mg/L	0.000116	-0.00003	mg/L	0.000116	374.45%
Cu 327.393†	13.4	0.00029	mg/L	0.000529	0.00029	mg/L	0.000529	180.92%
Fe 239.562†	-0.5	0.00175	mg/L	0.002224	0.00175	mg/L	0.002224	127.05%
Mg 279.077†	-13.7	0.00029	mg/L	0.008581	0.00029	mg/L	0.008581	>999.9%
Mn 257.610†	-15.9	-0.00021	mg/L	0.000009	-0.00021	mg/L	0.000009	4.04%
Mo 202.031†	0.9	0.00003	mg/L	0.000393	0.00003	mg/L	0.000393	>999.9%
Ni 231.604†	6.9	0.00036	mg/L	0.000391	0.00036	mg/L	0.000391	108.48%
Pb 220.353†	5.9	-0.00095	mg/L	0.000527	-0.00095	mg/L	0.000527	55.65%
Sb 206.836†	1.0	0.00190	mg/L	0.001421	0.00190	mg/L	0.001421	74.77%
Se 196.026†	-0.5	0.00074	mg/L	0.001216	0.00074	mg/L	0.001216	164.02%
Si 251.611†	140.0	0.00086	mg/L	0.000042	0.00086	mg/L	0.000042	4.89%
Sn 189.927†	6.7	0.00009	mg/L	0.000723	0.00009	mg/L	0.000723	771.89%
Ti 334.940†	-44.9	-0.00005	mg/L	0.000224	-0.00005	mg/L	0.000224	471.87%
Tl 190.801†	-5.4	-0.00136	mg/L	0.002989	-0.00136	mg/L	0.002989	219.30%
V 290.880†	57.6	0.00077	mg/L	0.000850	0.00077	mg/L	0.000850	110.44%
Zn 206.200†	60.4	0.00190	mg/L	0.000117	0.00190	mg/L	0.000117	6.19%
K 766.490†	54.1	-0.00085	mg/L	0.014815	-0.00085	mg/L	0.014815	>999.9%
Na 589.592†	225.7	0.00072	mg/L	0.010165	0.00072	mg/L	0.010165	>999.9%
Sr 407.771†	31.6	0.00023	mg/L	0.000018	0.00023	mg/L	0.000018	7.71%
Li 670.784†	10.2	0.00072	mg/L	0.001363	0.00072	mg/L	0.001363	189.28%

Sequence No.: 65 **Autosampler Location: 100**
Sample ID: L1102041217 **Date Collected: 2/21/2011 10:17:33 PM**
Analyst: PDM **Data Type: Original**

Approved: February 22, 2011

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Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041217

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102041217

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5182019.8						81821.48	1.58%
YRADIAL	308954.4						11270.98	3.65%
Ga 417.206	1279681.5						8999.57	0.70%
GaRADIAL	60303.5						971.83	1.61%
Ag 328.068†	57.1	-0.00038	mg/L	0.000552	-0.00038	mg/L	0.000552	144.47%
Al 396.153†	1674.8	0.330	mg/L	0.0110	0.330	mg/L	0.0110	3.34%
As 188.979†	1.0	0.00058	mg/L	0.001108	0.00058	mg/L	0.001108	190.99%
Ba 233.527†	224.7	0.00361	mg/L	0.000065	0.00361	mg/L	0.000065	1.81%
Be 234.861†	54.7	0.00004	mg/L	0.000015	0.00004	mg/L	0.000015	38.11%
B 249.677†	516.4	0.0121	mg/L	0.00008	0.0121	mg/L	0.00008	0.62%
Ca 227.546†	157.4	1.54	mg/L	0.020	1.54	mg/L	0.020	1.31%
Cd 228.802†	2.3	0.00001	mg/L	0.000081	0.00001	mg/L	0.000081	772.84%
Co 228.616†	10.8	0.00050	mg/L	0.000336	0.00050	mg/L	0.000336	67.12%
Cr 267.716†	1179.1	0.0104	mg/L	0.00019	0.0104	mg/L	0.00019	1.83%
Cu 327.393†	9287.1	0.0650	mg/L	0.00025	0.0650	mg/L	0.00025	0.38%
Fe 239.562†	139.0	0.308	mg/L	0.0071	0.308	mg/L	0.0071	2.32%
Mg 279.077†	144.4	0.190	mg/L	0.0025	0.190	mg/L	0.0025	1.34%
Mn 257.610†	2500.5	0.00573	mg/L	0.000074	0.00573	mg/L	0.000074	1.29%
Mo 202.031†	-0.1	-0.00003	mg/L	0.000555	-0.00003	mg/L	0.000555	>999.9%
Ni 231.604†	47.7	0.00158	mg/L	0.000446	0.00158	mg/L	0.000446	28.26%
Pb 220.353†	34.5	0.00424	mg/L	0.001554	0.00424	mg/L	0.001554	36.63%
Sb 206.836†	0.9	0.00176	mg/L	0.002566	0.00176	mg/L	0.002566	145.68%
Se 196.026†	2.2	0.00316	mg/L	0.005445	0.00316	mg/L	0.005445	172.16%
Si 251.611†	28465.6	0.843	mg/L	0.0151	0.843	mg/L	0.0151	1.79%
Sn 189.927†	14.6	0.00150	mg/L	0.000494	0.00150	mg/L	0.000494	32.92%
Ti 334.940†	11349.6	0.0158	mg/L	0.00196	0.0158	mg/L	0.00196	12.40%
Tl 190.801†	-2.7	0.00032	mg/L	0.002496	0.00032	mg/L	0.002496	771.60%
V 290.880†	117.9	0.00120	mg/L	0.000432	0.00120	mg/L	0.000432	35.84%
Zn 206.200†	542.9	0.0171	mg/L	0.00030	0.0171	mg/L	0.00030	1.77%
K 766.490†	1441.8	0.519	mg/L	0.0062	0.519	mg/L	0.0062	1.19%
Na 589.592†	7267.0	0.512	mg/L	0.0070	0.512	mg/L	0.0070	1.37%
Sr 407.771†	5158.0	0.00495	mg/L	0.000236	0.00495	mg/L	0.000236	4.77%
Li 670.784†	13.2	0.00076	mg/L	0.001200	0.00076	mg/L	0.001200	158.62%

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Sequence No.: 66 **Autosampler Location: 101**
Sample ID: L1102041218 **Date Collected: 2/21/2011 10:24:12 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041218

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102041218

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5140663.5						60451.51	1.18%
YRADIAL	315222.6						4582.25	1.45%
Ga 417.206	1263011.4						2263.10	0.18%
GaRADIAL	61107.3						1077.83	1.76%
Ag 328.068†	-22.5	-0.00077	mg/L	0.000868	-0.00077	mg/L	0.000868	113.17%
Al 396.153†	541.1	0.110	mg/L	0.0144	0.110	mg/L	0.0144	13.19%
As 188.979†	-0.0	-0.00039	mg/L	0.002771	-0.00039	mg/L	0.002771	706.43%
Ba 233.527†	74.7	0.00099	mg/L	0.000006	0.00099	mg/L	0.000006	0.60%
Be 234.861†	16.3	0.00002	mg/L	0.000026	0.00002	mg/L	0.000026	149.67%
B 249.677†	385.7	0.00885	mg/L	0.000111	0.00885	mg/L	0.000111	1.26%
Ca 227.546†	65.3	0.666	mg/L	0.0302	0.666	mg/L	0.0302	4.54%

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Cd 228.802†	-0.9	-0.00018	mg/L	0.000084	-0.00018	mg/L	0.000084 47.89%
Co 228.616†	-6.1	-0.00037	mg/L	0.000302	-0.00037	mg/L	0.000302 81.83%
Cr 267.716†	295.8	0.00247	mg/L	0.000137	0.00247	mg/L	0.000137 5.55%
Cu 327.393†	7904.6	0.0553	mg/L	0.00124	0.0553	mg/L	0.00124 2.25%
Fe 239.562†	33.5	0.0764	mg/L	0.00351	0.0764	mg/L	0.00351 4.60%
Mg 279.077†	33.6	0.0572	mg/L	0.00404	0.0572	mg/L	0.00404 7.07%
Mn 257.610†	1583.5	0.00351	mg/L	0.000072	0.00351	mg/L	0.000072 2.06%
Mo 202.031†	5.1	0.00035	mg/L	0.000413	0.00035	mg/L	0.000413 117.55%
Ni 231.604†	60.0	0.00195	mg/L	0.000451	0.00195	mg/L	0.000451 23.16%
Pb 220.353†	18.3	0.00128	mg/L	0.001112	0.00128	mg/L	0.001112 87.09%
Sb 206.836†	-0.6	0.00083	mg/L	0.001057	0.00083	mg/L	0.001057 127.10%
Se 196.026†	1.7	0.00251	mg/L	0.001238	0.00251	mg/L	0.001238 49.31%
Si 251.611†	8743.4	0.257	mg/L	0.0060	0.257	mg/L	0.0060 2.35%
Sn 189.927†	15.2	0.00161	mg/L	0.000731	0.00161	mg/L	0.000731 45.34%
Ti 334.940†	3188.9	0.00445	mg/L	0.000097	0.00445	mg/L	0.000097 2.18%
Tl 190.801†	-4.1	-0.00058	mg/L	0.005874	-0.00058	mg/L	0.005874 >999.9%
V 290.880†	87.3	0.00098	mg/L	0.000273	0.00098	mg/L	0.000273 27.97%
Zn 206.200†	533.1	0.0168	mg/L	0.00014	0.0168	mg/L	0.00014 0.84%
K 766.490†	641.6	0.219	mg/L	0.0123	0.219	mg/L	0.0123 5.63%
Na 589.592†	2639.8	0.176	mg/L	0.0073	0.176	mg/L	0.0073 4.17%
Sr 407.771†	1396.6	0.00149	mg/L	0.000109	0.00149	mg/L	0.000109 7.33%
Li 670.784†	-42.2	0.00009	mg/L	0.000380	0.00009	mg/L	0.000380 413.29%

Sequence No.: 67 **Autosampler Location: 102**
Sample ID: L1102041219 **Date Collected: 2/21/2011 10:30:51 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041219

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102041219

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5240173.0						93860.40	1.79%
YRADIAL	316129.9						1463.95	0.46%
Ga 417.206	1277312.4						25513.06	2.00%
GaRADIAL	61319.9						837.54	1.37%
Ag 328.068†	26.8	-0.00052	mg/L	0.000501	-0.00052	mg/L	0.000501	96.84%
Al 396.153†	286.0	0.0598	mg/L	0.00604	0.0598	mg/L	0.00604	10.09%
As 188.979†	0.6	0.00015	mg/L	0.003942	0.00015	mg/L	0.003942	>999.9%
Ba 233.527†	41.2	0.00040	mg/L	0.000088	0.00040	mg/L	0.000088	21.85%
Be 234.861†	9.4	0.00001	mg/L	0.000012	0.00001	mg/L	0.000012	107.47%
B 249.677†	315.3	0.00738	mg/L	0.000229	0.00738	mg/L	0.000229	3.10%
Ca 227.546†	27.2	0.302	mg/L	0.0545	0.302	mg/L	0.0545	18.07%
Cd 228.802†	2.0	-0.00001	mg/L	0.000158	-0.00001	mg/L	0.000158	>999.9%
Co 228.616†	1.0	0.00002	mg/L	0.000375	0.00002	mg/L	0.000375	>999.9%
Cr 267.716†	103.5	0.00076	mg/L	0.000114	0.00076	mg/L	0.000114	15.04%
Cu 327.393†	2309.3	0.0163	mg/L	0.00017	0.0163	mg/L	0.00017	1.04%
Fe 239.562†	15.6	0.0370	mg/L	0.00324	0.0370	mg/L	0.00324	8.76%
Mg 279.077†	7.1	0.0253	mg/L	0.00472	0.0253	mg/L	0.00472	18.67%
Mn 257.610†	285.9	0.00051	mg/L	0.000019	0.00051	mg/L	0.000019	3.76%
Mo 202.031†	-3.7	-0.00032	mg/L	0.000242	-0.00032	mg/L	0.000242	75.93%
Ni 231.604†	24.5	0.00088	mg/L	0.000207	0.00088	mg/L	0.000207	23.43%
Pb 220.353†	16.6	0.00098	mg/L	0.000807	0.00098	mg/L	0.000807	82.28%
Sb 206.836†	-1.7	0.00020	mg/L	0.001377	0.00020	mg/L	0.001377	704.52%
Se 196.026†	3.7	0.00381	mg/L	0.000821	0.00381	mg/L	0.000821	21.55%
Si 251.611†	4853.3	0.141	mg/L	0.0057	0.141	mg/L	0.0057	4.02%
Sn 189.927†	7.3	0.00021	mg/L	0.000317	0.00021	mg/L	0.000317	152.64%
Ti 334.940†	1432.1	0.00201	mg/L	0.000453	0.00201	mg/L	0.000453	22.55%
Tl 190.801†	-1.3	0.00113	mg/L	0.002615	0.00113	mg/L	0.002615	231.37%
V 290.880†	-74.6	-0.00013	mg/L	0.001084	-0.00013	mg/L	0.001084	844.63%
Zn 206.200†	217.4	0.00685	mg/L	0.000149	0.00685	mg/L	0.000149	2.17%
K 766.490†	244.6	0.0706	mg/L	0.01754	0.0706	mg/L	0.01754	24.85%
Na 589.592†	670.7	0.0330	mg/L	0.00529	0.0330	mg/L	0.00529	16.03%
Sr 407.771†	839.7	0.00098	mg/L	0.000030	0.00098	mg/L	0.000030	3.04%
Li 670.784†	-84.4	-0.00041	mg/L	0.001046	-0.00041	mg/L	0.001046	252.64%

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Pierre Morris

Sequence No.: 68 **Autosampler Location: 103**
Sample ID: L1102041220 **Date Collected: 2/21/2011 10:37:34 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041220

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102041220

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5161392.3						73620.80	1.43%
YRADIAL	309363.2						10700.59	3.46%
Ga 417.206	1261383.0						1000.93	0.08%
GaRADIAL	60023.7						719.14	1.20%
Ag 328.068†	82.6	-0.00024	mg/L	0.000274	-0.00024	mg/L	0.000274	115.40%
Al 396.153†	216.7	0.0463	mg/L	0.00882	0.0463	mg/L	0.00882	19.03%
As 188.979†	-0.3	-0.00068	mg/L	0.000957	-0.00068	mg/L	0.000957	141.78%
Ba 233.527†	54.5	0.00064	mg/L	0.000090	0.00064	mg/L	0.000090	14.06%
Be 234.861†	5.3	0.00001	mg/L	0.000019	0.00001	mg/L	0.000019	333.16%
B 249.677†	242.1	0.00598	mg/L	0.000475	0.00598	mg/L	0.000475	7.95%
Ca 227.546†	30.0	0.329	mg/L	0.0514	0.329	mg/L	0.0514	15.65%
Cd 228.802†	3.7	0.00010	mg/L	0.000131	0.00010	mg/L	0.000131	135.04%
Co 228.616†	4.0	0.00018	mg/L	0.000252	0.00018	mg/L	0.000252	142.45%
Cr 267.716†	42.9	0.00022	mg/L	0.000070	0.00022	mg/L	0.000070	32.37%
Cu 327.393†	2409.1	0.0170	mg/L	0.00049	0.0170	mg/L	0.00049	2.86%
Fe 239.562†	12.3	0.0297	mg/L	0.00575	0.0297	mg/L	0.00575	19.38%
Mg 279.077†	2.0	0.0193	mg/L	0.00461	0.0193	mg/L	0.00461	23.93%
Mn 257.610†	437.4	0.00085	mg/L	0.000021	0.00085	mg/L	0.000021	2.46%
Mo 202.031†	-3.9	-0.00034	mg/L	0.000239	-0.00034	mg/L	0.000239	71.42%
Ni 231.604†	39.5	0.00133	mg/L	0.000315	0.00133	mg/L	0.000315	23.62%
Pb 220.353†	12.6	0.00026	mg/L	0.000627	0.00026	mg/L	0.000627	241.02%
Sb 206.836†	0.9	0.00185	mg/L	0.000444	0.00185	mg/L	0.000444	23.95%
Se 196.026†	-2.6	-0.00067	mg/L	0.001532	-0.00067	mg/L	0.001532	228.67%
Si 251.611†	3631.9	0.105	mg/L	0.0022	0.105	mg/L	0.0022	2.09%
Sn 189.927†	4.4	-0.00031	mg/L	0.000486	-0.00031	mg/L	0.000486	157.62%
Ti 334.940†	968.3	0.00136	mg/L	0.000259	0.00136	mg/L	0.000259	18.96%
Tl 190.801†	-1.5	0.00101	mg/L	0.003149	0.00101	mg/L	0.003149	312.09%
V 290.880†	30.0	0.00058	mg/L	0.001006	0.00058	mg/L	0.001006	172.13%
Zn 206.200†	227.5	0.00717	mg/L	0.000240	0.00717	mg/L	0.000240	3.34%
K 766.490†	606.4	0.206	mg/L	0.0143	0.206	mg/L	0.0143	6.92%
Na 589.592†	3267.7	0.221	mg/L	0.0122	0.221	mg/L	0.0122	5.50%
Sr 407.771†	898.4	0.00103	mg/L	0.000040	0.00103	mg/L	0.000040	3.90%
Li 670.784†	24.1	0.00089	mg/L	0.002259	0.00089	mg/L	0.002259	254.58%

Sequence No.: 69 **Autosampler Location: 104**
Sample ID: L1102041221 **Date Collected: 2/21/2011 10:44:14 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041221

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102041221

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5199299.6						39708.40	0.76%
YRADIAL	310708.6						4758.30	1.53%
Ga 417.206	1278490.6						25225.52	1.97%
GaRADIAL	60266.3						964.25	1.60%
Ag 328.068†	78.2	-0.00027	mg/L	0.000538	-0.00027	mg/L	0.000538	198.46%
Al 396.153†	254.3	0.0537	mg/L	0.00578	0.0537	mg/L	0.00578	10.76%
As 188.979†	1.6	0.00114	mg/L	0.001883	0.00114	mg/L	0.001883	164.61%

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Ba 233.527†	47.4	0.00052 mg/L	0.000049	0.00052 mg/L	0.000049	9.55%
Be 234.861†	27.7	0.00000 mg/L	0.000008	0.00000 mg/L	0.000008	422.00%
B 249.677†	166.6	0.00566 mg/L	0.000316	0.00566 mg/L	0.000316	5.59%
Ca 227.546†	36.1	0.387 mg/L	0.0170	0.387 mg/L	0.0170	4.38%
Cd 228.802†	4.7	0.00014 mg/L	0.000137	0.00014 mg/L	0.000137	96.02%
Co 228.616†	1.2	0.00002 mg/L	0.000383	0.00002 mg/L	0.000383	>999.9%
Cr 267.716†	275.2	0.00229 mg/L	0.000085	0.00229 mg/L	0.000085	3.70%
Cu 327.393†	3013.6	0.0212 mg/L	0.00055	0.0212 mg/L	0.00055	2.59%
Fe 239.562†	121.1	0.269 mg/L	0.0068	0.269 mg/L	0.0068	2.51%
Mg 279.077†	16.4	0.0365 mg/L	0.00473	0.0365 mg/L	0.00473	12.97%
Mn 257.610†	1286.4	0.00281 mg/L	0.000021	0.00281 mg/L	0.000021	0.76%
Mo 202.031†	3.8	0.00026 mg/L	0.000251	0.00026 mg/L	0.000251	95.34%
Ni 231.604†	28.9	0.00102 mg/L	0.000200	0.00102 mg/L	0.000200	19.71%
Pb 220.353†	11.6	0.00007 mg/L	0.001171	0.00007 mg/L	0.001171	>999.9%
Sb 206.836†	-1.3	0.00043 mg/L	0.001525	0.00043 mg/L	0.001525	354.48%
Se 196.026†	-0.9	0.00069 mg/L	0.004307	0.00069 mg/L	0.004307	623.24%
Si 251.611†	4824.4	0.140 mg/L	0.0018	0.140 mg/L	0.0018	1.26%
Sn 189.927†	8.4	0.00040 mg/L	0.000720	0.00040 mg/L	0.000720	179.53%
Ti 334.940†	2553.6	0.00357 mg/L	0.001952	0.00357 mg/L	0.001952	54.69%
Tl 190.801†	-5.5	-0.00137 mg/L	0.001464	-0.00137 mg/L	0.001464	107.10%
V 290.880†	90.3	0.00101 mg/L	0.000479	0.00101 mg/L	0.000479	47.33%
Zn 206.200†	202.8	0.00639 mg/L	0.000057	0.00639 mg/L	0.000057	0.88%
K 766.490†	1039.9	0.369 mg/L	0.0361	0.369 mg/L	0.0361	9.78%
Na 589.592†	4366.5	0.301 mg/L	0.0030	0.301 mg/L	0.0030	1.01%
Sr 407.771†	1052.2	0.00115 mg/L	0.000055	0.00115 mg/L	0.000055	4.79%
Li 670.784†	-142.1	-0.00110 mg/L	0.000334	-0.00110 mg/L	0.000334	30.27%

Sequence No.: 70 **Autosampler Location: 105**
Sample ID: L1102041222 **Date Collected: 2/21/2011 10:50:56 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102041222

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102041222

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5313165.3						43269.00	0.81%
YRADIAL	317063.0						7408.68	2.34%
Ga 417.206	1308100.3						33875.08	2.59%
GaRADIAL	61438.6						1937.00	3.15%
Ag 328.068†	101.2	-0.00014	mg/L	0.000319	-0.00014	mg/L	0.000319	222.00%
Al 396.153†	85.9	0.0209	mg/L	0.00513	0.0209	mg/L	0.00513	24.62%
As 188.979†	1.1	0.00065	mg/L	0.000587	0.00065	mg/L	0.000587	90.07%
Ba 233.527†	10.3	-0.00014	mg/L	0.000037	-0.00014	mg/L	0.000037	27.38%
Be 234.861†	24.3	0.00004	mg/L	0.000038	0.00004	mg/L	0.000038	89.71%
B 249.677†	247.0	0.00603	mg/L	0.000280	0.00603	mg/L	0.000280	4.64%
Ca 227.546†	6.2	0.101	mg/L	0.0111	0.101	mg/L	0.0111	10.96%
Cd 228.802†	1.9	-0.00002	mg/L	0.000163	-0.00002	mg/L	0.000163	990.54%
Co 228.616†	1.7	0.00005	mg/L	0.000124	0.00005	mg/L	0.000124	226.82%
Cr 267.716†	95.5	0.00069	mg/L	0.000130	0.00069	mg/L	0.000130	18.87%
Cu 327.393†	665.9	0.00484	mg/L	0.000594	0.00484	mg/L	0.000594	12.28%
Fe 239.562†	5.0	0.0138	mg/L	0.00291	0.0138	mg/L	0.00291	21.11%
Mg 279.077†	-1.6	0.0149	mg/L	0.00459	0.0149	mg/L	0.00459	30.85%
Mn 257.610†	105.5	0.00008	mg/L	0.000018	0.00008	mg/L	0.000018	23.28%
Mo 202.031†	0.2	-0.00002	mg/L	0.000424	-0.00002	mg/L	0.000424	>999.9%
Ni 231.604†	13.9	0.00056	mg/L	0.000456	0.00056	mg/L	0.000456	80.80%
Pb 220.353†	13.2	0.00036	mg/L	0.001150	0.00036	mg/L	0.001150	318.76%
Sb 206.836†	-1.6	0.00020	mg/L	0.001877	0.00020	mg/L	0.001877	936.26%
Se 196.026†	1.9	0.00250	mg/L	0.000945	0.00250	mg/L	0.000945	37.75%
Si 251.611†	1406.8	0.0385	mg/L	0.00097	0.0385	mg/L	0.00097	2.51%
Sn 189.927†	5.6	-0.00010	mg/L	0.000319	-0.00010	mg/L	0.000319	307.05%
Ti 334.940†	333.2	0.00048	mg/L	0.000162	0.00048	mg/L	0.000162	33.91%
Tl 190.801†	2.5	0.00340	mg/L	0.002132	0.00340	mg/L	0.002132	62.62%
V 290.880†	-66.6	-0.00008	mg/L	0.000570	-0.00008	mg/L	0.000570	750.15%
Zn 206.200†	81.9	0.00257	mg/L	0.000112	0.00257	mg/L	0.000112	4.35%
K 766.490†	420.2	0.136	mg/L	0.0075	0.136	mg/L	0.0075	5.47%

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Na 589.592†	1454.3	0.0899 mg/L	0.00633	0.0899 mg/L	0.00633	7.04%
Sr 407.771†	238.7	0.00042 mg/L	0.000037	0.00042 mg/L	0.000037	8.72%
Li 670.784†	24.8	0.00090 mg/L	0.000849	0.00090 mg/L	0.000849	94.81%

Sequence No.: 71 **Autosampler Location: 106**
Sample ID: L1102043101 **Date Collected: 2/21/2011 10:57:36 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043101

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: L1102043101

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5255419.9						28835.65	0.55%
YRADIAL	318419.8						1083.25	0.34%
Ga 417.206	1272147.8						1679.39	0.13%
GaRADIAL	61474.8						886.60	1.44%
Ag 328.068†	57.3	-0.00036	mg/L	0.000837	-0.00036	mg/L	0.000837	230.99%
Al 396.153†	19.2	0.00785	mg/L	0.009235	0.00785	mg/L	0.009235	117.59%
As 188.979†	0.2	-0.00019	mg/L	0.001006	-0.00019	mg/L	0.001006	521.78%
Ba 233.527†	-1.7	-0.00034	mg/L	0.000101	-0.00034	mg/L	0.000101	29.39%
Be 234.861†	8.6	0.00002	mg/L	0.000020	0.00002	mg/L	0.000020	119.88%
B 249.677†	90.4	0.00305	mg/L	0.000126	0.00305	mg/L	0.000126	4.13%
Ca 227.546†	-3.1	0.0121	mg/L	0.03494	0.0121	mg/L	0.03494	288.55%
Cd 228.802†	0.5	-0.00010	mg/L	0.000112	-0.00010	mg/L	0.000112	116.27%
Co 228.616†	1.6	0.00005	mg/L	0.000232	0.00005	mg/L	0.000232	458.13%
Cr 267.716†	23.8	0.00005	mg/L	0.000064	0.00005	mg/L	0.000064	135.36%
Cu 327.393†	36.3	0.00045	mg/L	0.000622	0.00045	mg/L	0.000622	137.79%
Fe 239.562†	0.8	0.00442	mg/L	0.001308	0.00442	mg/L	0.001308	29.62%
Mg 279.077†	-10.3	0.00437	mg/L	0.000693	0.00437	mg/L	0.000693	15.86%
Mn 257.610†	-23.3	-0.00023	mg/L	0.000015	-0.00023	mg/L	0.000015	6.33%
Mo 202.031†	2.2	0.00013	mg/L	0.000123	0.00013	mg/L	0.000123	96.88%
Ni 231.604†	2.7	0.00024	mg/L	0.000266	0.00024	mg/L	0.000266	112.88%
Pb 220.353†	7.5	-0.00066	mg/L	0.000822	-0.00066	mg/L	0.000822	124.91%
Sb 206.836†	2.0	0.00253	mg/L	0.000421	0.00253	mg/L	0.000421	16.61%
Se 196.026†	6.6	0.00581	mg/L	0.003189	0.00581	mg/L	0.003189	54.88%
Si 251.611†	292.6	0.00540	mg/L	0.000362	0.00540	mg/L	0.000362	6.71%
Sn 189.927†	7.9	0.00030	mg/L	0.000656	0.00030	mg/L	0.000656	215.50%
Ti 334.940†	-65.6	-0.00008	mg/L	0.000119	-0.00008	mg/L	0.000119	154.98%
Tl 190.801†	-10.5	-0.00443	mg/L	0.003395	-0.00443	mg/L	0.003395	76.65%
V 290.880†	-87.6	-0.00022	mg/L	0.001051	-0.00022	mg/L	0.001051	478.48%
Zn 206.200†	43.9	0.00137	mg/L	0.000050	0.00137	mg/L	0.000050	3.63%
K 766.490†	-73.3	-0.0487	mg/L	0.01689	-0.0487	mg/L	0.01689	34.70%
Na 589.592†	149.7	-0.00479	mg/L	0.011234	-0.00479	mg/L	0.011234	234.73%
Sr 407.771†	16.5	0.00022	mg/L	0.000064	0.00022	mg/L	0.000064	29.69%
Li 670.784†	-60.4	-0.00013	mg/L	0.000277	-0.00013	mg/L	0.000277	220.14%

Sequence No.: 72 **Autosampler Location: 107**
Sample ID: L1102043401 **Date Collected: 2/21/2011 11:04:16 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043401

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: L1102043401

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5096415.1						22953.31	0.45%
YRADIAL	317363.9						1449.48	0.46%
Ga 417.206	1277036.0						391.74	0.03%

Approved: February 22, 2011

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GaRADIAL	62488.8				1060.87	1.70%
Ag 328.068†	167.1	0.00016 mg/L	0.000344	0.00016 mg/L	0.000344	210.88%
Al 396.153†	6.9	0.00547 mg/L	0.005888	0.00547 mg/L	0.005888	107.69%
As 188.979†	1.8	0.00112 mg/L	0.002322	0.00112 mg/L	0.002322	207.41%
Ba 233.527†	3444.9	0.0599 mg/L	0.00021	0.0599 mg/L	0.00021	0.35%
Be 234.861†	20.3	0.00004 mg/L	0.000033	0.00004 mg/L	0.000033	89.03%
B 249.677†	1006.9	0.0204 mg/L	0.00069	0.0204 mg/L	0.00069	3.41%
Ca 227.546†	1179.4	11.3 mg/L	0.04	11.3 mg/L	0.04	0.33%
Cd 228.802†	1.3	-0.00006 mg/L	0.000194	-0.00006 mg/L	0.000194	316.72%
Co 228.616†	-0.8	-0.00009 mg/L	0.000219	-0.00009 mg/L	0.000219	232.06%
Cr 267.716†	223.3	0.00183 mg/L	0.000121	0.00183 mg/L	0.000121	6.60%
Cu 327.393†	102.2	0.00091 mg/L	0.001159	0.00091 mg/L	0.001159	127.25%
Fe 239.562†	1.3	0.00547 mg/L	0.003364	0.00547 mg/L	0.003364	61.56%
Mg 279.077†	4291.1	5.18 mg/L	0.053	5.18 mg/L	0.053	1.02%
Mn 257.610†	1065.7	0.00481 mg/L	0.000019	0.00481 mg/L	0.000019	0.40%
Mo 202.031†	-2.6	-0.00023 mg/L	0.000405	-0.00023 mg/L	0.000405	173.31%
Ni 231.604†	29.0	0.00101 mg/L	0.000262	0.00101 mg/L	0.000262	25.95%
Pb 220.353†	7.1	-0.00019 mg/L	0.000263	-0.00019 mg/L	0.000263	138.75%
Sb 206.836†	3.5	0.00347 mg/L	0.002067	0.00347 mg/L	0.002067	59.66%
Se 196.026†	-9.0	-0.00246 mg/L	0.001646	-0.00246 mg/L	0.001646	66.92%
Si 251.611†	443179.3	13.2 mg/L	0.06	13.2 mg/L	0.06	0.43%
Sn 189.927†	10.0	0.00069 mg/L	0.000863	0.00069 mg/L	0.000863	124.53%
Ti 334.940†	-153.2	-0.00009 mg/L	0.000045	-0.00009 mg/L	0.000045	52.58%
Tl 190.801†	24.3	0.0156 mg/L	0.00409	0.0156 mg/L	0.00409	26.22%
V 290.880†	-210.9	-0.00106 mg/L	0.000610	-0.00106 mg/L	0.000610	57.38%
Zn 206.200†	90.8	0.00286 mg/L	0.000071	0.00286 mg/L	0.000071	2.49%
K 766.490†	4839.4	1.79 mg/L	0.030	1.79 mg/L	0.030	1.65%
Na 589.592†	109675.9	7.95 mg/L	0.037	7.95 mg/L	0.037	0.47%
Sr 407.771†	114954.0	0.107 mg/L	0.0046	0.107 mg/L	0.0046	4.30%
Li 670.784†	313.1	0.00435 mg/L	0.001646	0.00435 mg/L	0.001646	37.82%

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Sequence No.: 73 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 11:11:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4884783.7						15527.46	0.32%
YRADIAL	299088.7						3932.51	1.31%
Ga 417.206	1175127.0						6312.70	0.54%
GaRADIAL	58233.2						120.07	0.21%
Ag 328.068†	80983.1	0.405	mg/L	0.0034	0.405	mg/L	0.0034	0.84%
QC value within limits for Ag 328.068 Recovery = 101.24%								
Al 396.153†	52339.0	10.2	mg/L	0.05	10.2	mg/L	0.05	0.46%
QC value within limits for Al 396.153 Recovery = 101.84%								
As 188.979†	434.7	0.405	mg/L	0.0019	0.405	mg/L	0.0019	0.46%
QC value within limits for As 188.979 Recovery = 101.31%								
Ba 233.527†	58867.9	1.03	mg/L	0.018	1.03	mg/L	0.018	1.70%
QC value within limits for Ba 233.527 Recovery = 103.21%								
Be 234.861†	29053.1	0.0519	mg/L	0.00030	0.0519	mg/L	0.00030	0.58%
QC value within limits for Be 234.861 Recovery = 103.87%								
B 249.677†	26704.7	0.512	mg/L	0.0066	0.512	mg/L	0.0066	1.28%
QC value within limits for B 249.677 Recovery = 102.31%								
Ca 227.546†	1049.1	10.4	mg/L	0.10	10.4	mg/L	0.10	0.98%
QC value within limits for Ca 227.546 Recovery = 103.92%								
Cd 228.802†	888.2	0.0512	mg/L	0.00014	0.0512	mg/L	0.00014	0.27%
QC value within limits for Cd 228.802 Recovery = 102.41%								
Co 228.616†	3861.2	0.204	mg/L	0.0010	0.204	mg/L	0.0010	0.51%
QC value within limits for Co 228.616 Recovery = 101.86%								
Cr 267.716†	57167.3	0.511	mg/L	0.0093	0.511	mg/L	0.0093	1.82%
QC value within limits for Cr 267.716 Recovery = 102.15%								
Cu 327.393†	73314.3	0.513	mg/L	0.0066	0.513	mg/L	0.0066	1.29%
QC value within limits for Cu 327.393 Recovery = 102.62%								

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Fe 239.562†	1809.8	3.97 mg/L	0.008	3.97 mg/L	0.008	0.21%
QC value within limits for Fe 239.562 Recovery = 99.37%						
Mg 279.077†	8213.2	9.91 mg/L	0.019	9.91 mg/L	0.019	0.19%
QC value within limits for Mg 279.077 Recovery = 99.07%						
Mn 257.610†	224336.0	0.518 mg/L	0.0094	0.518 mg/L	0.0094	1.81%
QC value within limits for Mn 257.610 Recovery = 103.53%						
Mo 202.031†	13714.2	1.04 mg/L	0.007	1.04 mg/L	0.007	0.67%
QC value within limits for Mo 202.031 Recovery = 104.48%						
Ni 231.604†	17157.1	0.513 mg/L	0.0084	0.513 mg/L	0.0084	1.64%
QC value within limits for Ni 231.604 Recovery = 102.66%						
Pb 220.353†	2959.0	0.538 mg/L	0.0027	0.538 mg/L	0.0027	0.50%
QC value within limits for Pb 220.353 Recovery = 107.64%						
Sb 206.836†	1903.4	1.22 mg/L	0.002	1.22 mg/L	0.002	0.14%
QC value within limits for Sb 206.836 Recovery = 101.55%						
Se 196.026†	561.5	0.405 mg/L	0.0098	0.405 mg/L	0.0098	2.42%
QC value within limits for Se 196.026 Recovery = 101.14%						
Si 251.611†	171802.3	5.09 mg/L	0.046	5.09 mg/L	0.046	0.91%
QC value within limits for Si 251.611 Recovery = 101.76%						
Sn 189.927†	5868.7	1.05 mg/L	0.005	1.05 mg/L	0.005	0.49%
QC value within limits for Sn 189.927 Recovery = 104.84%						
Ti 334.940†	730810.4	1.02 mg/L	0.003	1.02 mg/L	0.003	0.28%
QC value within limits for Ti 334.940 Recovery = 101.60%						
Tl 190.801†	848.8	0.527 mg/L	0.0032	0.527 mg/L	0.0032	0.61%
QC value within limits for Tl 190.801 Recovery = 105.34%						
V 290.880†	149693.1	1.02 mg/L	0.021	1.02 mg/L	0.021	2.10%
QC value within limits for V 290.880 Recovery = 102.01%						
Zn 206.200†	32780.1	1.04 mg/L	0.020	1.04 mg/L	0.020	1.93%
QC value within limits for Zn 206.200 Recovery = 103.55%						
K 766.490†	134485.2	50.3 mg/L	0.38	50.3 mg/L	0.38	0.76%
QC value within limits for K 766.490 Recovery = 100.65%						
Na 589.592†	689750.1	50.2 mg/L	0.23	50.2 mg/L	0.23	0.46%
QC value within limits for Na 589.592 Recovery = 100.48%						
Sr 407.771†	1088651.9	1.01 mg/L	0.059	1.01 mg/L	0.059	5.87%
QC value within limits for Sr 407.771 Recovery = 101.06%						
Li 670.784†	83728.6	1.00 mg/L	0.002	1.00 mg/L	0.002	0.20%
QC value within limits for Li 670.784 Recovery = 100.45%						

All analyte(s) passed QC.

Sequence No.: 74 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 11:17:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5198035.5						63027.48	1.21%
YRADIAL	317745.4						6637.96	2.09%
Ga 417.206	1254098.8						10856.00	0.87%
GaRADIAL	60964.8						237.01	0.39%
Ag 328.068†	126.3	-0.00002	mg/L	0.000276	-0.00002	mg/L	0.000276	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-88.2	-0.0131	mg/L	0.00795	-0.0131	mg/L	0.00795	60.87%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.1	-0.00024	mg/L	0.003174	-0.00024	mg/L	0.003174	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-2.2	-0.00036	mg/L	0.000107	-0.00036	mg/L	0.000107	30.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	1.7	0.00001	mg/L	0.000031	0.00001	mg/L	0.000031	564.49%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	76.3	0.00279	mg/L	0.000370	0.00279	mg/L	0.000370	13.24%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-3.2	0.0104	mg/L	0.01506	0.0104	mg/L	0.01506	144.41%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	4.0	0.00011	mg/L	0.000062	0.00011	mg/L	0.000062	57.19%

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   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†              -2.4    -0.00016 mg/L      0.000081    -0.00016 mg/L      0.000081  50.56%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -1.0    -0.00017 mg/L      0.000091    -0.00017 mg/L      0.000091  52.48%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†             -33.0    -0.00003 mg/L      0.000267    -0.00003 mg/L      0.000267 850.96%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†              -0.3     0.00219 mg/L      0.003126     0.00219 mg/L      0.003126 142.53%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†              -8.9     0.00616 mg/L      0.008193     0.00616 mg/L      0.008193 132.97%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†               1.0    -0.00018 mg/L      0.000024    -0.00018 mg/L      0.000024  13.53%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               4.6     0.00031 mg/L      0.000405     0.00031 mg/L      0.000405 130.22%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              -7.7    -0.00008 mg/L      0.000055    -0.00008 mg/L      0.000055  71.83%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               6.7    -0.00080 mg/L      0.001958    -0.00080 mg/L      0.001958 244.87%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -2.2    -0.00011 mg/L      0.002819    -0.00011 mg/L      0.002819 >999.9%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               0.5     0.00144 mg/L      0.002631     0.00144 mg/L      0.002631 182.34%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               0.6    -0.00328 mg/L      0.000259    -0.00328 mg/L      0.000259   7.90%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              11.8     0.00101 mg/L      0.000648     0.00101 mg/L      0.000648  64.28%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†              -2.8     0.00001 mg/L      0.000020     0.00001 mg/L      0.000020 183.46%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -5.8    -0.00161 mg/L      0.000762    -0.00161 mg/L      0.000762  47.43%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†             -172.1    -0.00080 mg/L      0.000542    -0.00080 mg/L      0.000542  68.07%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†              -0.2    -0.00002 mg/L      0.000104    -0.00002 mg/L      0.000104 574.42%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†              118.2      0.0232 mg/L       0.04064      0.0232 mg/L       0.04064 174.98%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             105.2    -0.00802 mg/L      0.013279    -0.00802 mg/L      0.013279 165.66%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              -49.1     0.00016 mg/L      0.000059     0.00016 mg/L      0.000059  38.06%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              -89.7    -0.00048 mg/L      0.000786    -0.00048 mg/L      0.000786 164.78%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 75 **Autosampler Location: 108**
Sample ID: PDM **Date Collected: 2/21/2011 11:24:18 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PDM

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: PDM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4598441.9						42510.06	0.92%
YRADIAL	286367.5						2210.03	0.77%
Ga 417.206	1119640.9						12866.64	1.15%
GaRADIAL	56647.9						338.81	0.60%
Ag 328.068†	990.7	-0.00066	mg/L	0.000925	-0.00066	mg/L	0.000925	140.09%
Al 396.153†	1300825.9	253	mg/L	4.4	253	mg/L	4.4	1.73%
As 188.979†	11.3	0.00067	mg/L	0.004559	0.00067	mg/L	0.004559	683.45%
Ba 233.527†	109.2	-0.00078	mg/L	0.000278	-0.00078	mg/L	0.000278	35.59%
Be 234.861†	11184.1	-0.00037	mg/L	0.001602	-0.00037	mg/L	0.001602	427.93%
B 249.677†	-9939.5	-0.00720	mg/L	0.017469	-0.00720	mg/L	0.017469	242.52%
Ca 227.546†	29915.3	286	mg/L	4.0	286	mg/L	4.0	1.41%
Cd 228.802†	6.6	0.00008	mg/L	0.000172	0.00008	mg/L	0.000172	218.44%

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Co 228.616†	30.7	-0.00099	mg/L	0.000120	-0.00099	mg/L	0.000120 12.19%
Cr 267.716†	597.4	-0.00109	mg/L	0.000241	-0.00109	mg/L	0.000241 22.21%
Cu 327.393†	-1565.9	0.00070	mg/L	0.000622	0.00070	mg/L	0.000622 89.00%
Fe 239.562†	45242.3	99.3	mg/L	1.79	99.3	mg/L	1.79 1.80%
Mg 279.077†	210042.3	253	mg/L	3.8	253	mg/L	3.8 1.51%
Mn 257.610†	-80.8	0.00044	mg/L	0.000467	0.00044	mg/L	0.000467 106.06%
Mo 202.031†	-2.5	0.00468	mg/L	0.001330	0.00468	mg/L	0.001330 28.42%
Ni 231.604†	-73.3	-0.00210	mg/L	0.000529	-0.00210	mg/L	0.000529 25.12%
Pb 220.353†	-100.4	-0.00245	mg/L	0.002341	-0.00245	mg/L	0.002341 95.71%
Sb 206.836†	16.4	0.0117	mg/L	0.00390	0.0117	mg/L	0.00390 33.42%
Se 196.026†	-102.1	0.00818	mg/L	0.003141	0.00818	mg/L	0.003141 38.39%
Si 251.611†	254.3	0.00427	mg/L	0.000523	0.00427	mg/L	0.000523 12.26%
Sn 189.927†	-19.2	-0.00453	mg/L	0.002191	-0.00453	mg/L	0.002191 48.40%
Ti 334.940†	-2481.6	-0.00058	mg/L	0.000608	-0.00058	mg/L	0.000608 104.28%
Tl 190.801†	165.5	0.0763	mg/L	0.00328	0.0763	mg/L	0.00328 4.30%
V 290.880†	-985.9	0.00128	mg/L	0.005128	0.00128	mg/L	0.005128 399.08%
Zn 206.200†	189.7	0.00370	mg/L	0.000460	0.00370	mg/L	0.000460 12.41%
K 766.490†	83.5	0.0102	mg/L	0.05112	0.0102	mg/L	0.05112 502.89%
Na 589.592†	334.8	0.00865	mg/L	0.007655	0.00865	mg/L	0.007655 88.55%
Sr 407.771†	14327.3	0.00159	mg/L	0.000350	0.00159	mg/L	0.000350 22.10%
Li 670.784†	143.6	0.00232	mg/L	0.000406	0.00232	mg/L	0.000406 17.49%

Sequence No.: 76 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/21/2011 11:29:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4971503.3						26448.01	0.53%
YRADIAL	298565.7						4274.51	1.43%
Ga 417.206	1189366.3						19511.45	1.64%
GaRADIAL	57611.9						407.30	0.71%
Ag 328.068†	79950.9	0.400	mg/L	0.0124	0.400	mg/L	0.0124	3.10%
QC value within limits for Ag 328.068 Recovery = 99.94%								
Al 396.153†	52414.5	10.2	mg/L	0.07	10.2	mg/L	0.07	0.66%
QC value within limits for Al 396.153 Recovery = 101.99%								
As 188.979†	430.4	0.401	mg/L	0.0100	0.401	mg/L	0.0100	2.49%
QC value within limits for As 188.979 Recovery = 100.31%								
Ba 233.527†	58117.7	1.02	mg/L	0.016	1.02	mg/L	0.016	1.59%
QC value within limits for Ba 233.527 Recovery = 101.90%								
Be 234.861†	28811.4	0.0515	mg/L	0.00155	0.0515	mg/L	0.00155	3.02%
QC value within limits for Be 234.861 Recovery = 102.96%								
B 249.677†	26236.0	0.503	mg/L	0.0160	0.503	mg/L	0.0160	3.18%
QC value within limits for B 249.677 Recovery = 100.57%								
Ca 227.546†	1035.7	10.3	mg/L	0.16	10.3	mg/L	0.16	1.59%
QC value within limits for Ca 227.546 Recovery = 102.61%								
Cd 228.802†	873.8	0.0504	mg/L	0.00110	0.0504	mg/L	0.00110	2.18%
QC value within limits for Cd 228.802 Recovery = 100.73%								
Co 228.616†	3808.0	0.201	mg/L	0.0011	0.201	mg/L	0.0011	0.57%
QC value within limits for Co 228.616 Recovery = 100.44%								
Cr 267.716†	56508.8	0.505	mg/L	0.0082	0.505	mg/L	0.0082	1.62%
QC value within limits for Cr 267.716 Recovery = 100.97%								
Cu 327.393†	72173.1	0.505	mg/L	0.0168	0.505	mg/L	0.0168	3.33%
QC value within limits for Cu 327.393 Recovery = 101.03%								
Fe 239.562†	1826.5	4.01	mg/L	0.020	4.01	mg/L	0.020	0.51%
QC value within limits for Fe 239.562 Recovery = 100.28%								
Mg 279.077†	8274.0	9.98	mg/L	0.044	9.98	mg/L	0.044	0.44%
QC value within limits for Mg 279.077 Recovery = 99.80%								
Mn 257.610†	221332.7	0.511	mg/L	0.0086	0.511	mg/L	0.0086	1.68%
QC value within limits for Mn 257.610 Recovery = 102.15%								
Mo 202.031†	13557.5	1.03	mg/L	0.004	1.03	mg/L	0.004	0.40%
QC value within limits for Mo 202.031 Recovery = 103.28%								
Ni 231.604†	16924.1	0.506	mg/L	0.0087	0.506	mg/L	0.0087	1.71%

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QC value within limits for Ni 231.604 Recovery = 101.27%
Pb 220.353† 2920.4 0.531 mg/L 0.0010 0.531 mg/L 0.0010 0.19%
QC value within limits for Pb 220.353 Recovery = 106.24%
Sb 206.836† 1886.4 1.21 mg/L 0.019 1.21 mg/L 0.019 1.61%
QC value within limits for Sb 206.836 Recovery = 100.64%
Se 196.026† 557.0 0.401 mg/L 0.0150 0.401 mg/L 0.0150 3.74%
QC value within limits for Se 196.026 Recovery = 100.33%
Si 251.611† 169476.0 5.02 mg/L 0.152 5.02 mg/L 0.152 3.02%
QC value within limits for Si 251.611 Recovery = 100.38%
Sn 189.927† 5776.3 1.03 mg/L 0.005 1.03 mg/L 0.005 0.50%
QC value within limits for Sn 189.927 Recovery = 103.19%
Ti 334.940† 731863.0 1.02 mg/L 0.002 1.02 mg/L 0.002 0.21%
QC value within limits for Ti 334.940 Recovery = 101.75%
Tl 190.801† 830.7 0.516 mg/L 0.0033 0.516 mg/L 0.0033 0.63%
QC value within limits for Tl 190.801 Recovery = 103.16%
V 290.880† 147018.7 1.00 mg/L 0.017 1.00 mg/L 0.017 1.71%
QC value within limits for V 290.880 Recovery = 100.19%
Zn 206.200† 32564.9 1.03 mg/L 0.012 1.03 mg/L 0.012 1.20%
QC value within limits for Zn 206.200 Recovery = 102.87%
K 766.490† 134461.1 50.3 mg/L 0.44 50.3 mg/L 0.44 0.87%
QC value within limits for K 766.490 Recovery = 100.63%
Na 589.592† 691132.2 50.3 mg/L 0.39 50.3 mg/L 0.39 0.78%
QC value within limits for Na 589.592 Recovery = 100.68%
Sr 407.771† 1037914.2 0.963 mg/L 0.0907 0.963 mg/L 0.0907 9.41%
QC value within limits for Sr 407.771 Recovery = 96.34%
Li 670.784† 83477.7 1.00 mg/L 0.002 1.00 mg/L 0.002 0.17%
QC value within limits for Li 670.784 Recovery = 100.15%
All analyte(s) passed QC.

Sequence No.: 77 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/21/2011 11:36:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5208637.6						38178.56	0.73%
YRADIAL	309160.3						2121.33	0.69%
Ga 417.206	1247897.4						34375.63	2.75%
GaRADIAL	59184.3						743.69	1.26%
Ag 328.068†	276.3	0.00073	mg/L	0.000271	0.00073	mg/L	0.000271	37.06%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-70.1	-0.00953	mg/L	0.006892	-0.00953	mg/L	0.006892	72.32%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.0	-0.00040	mg/L	0.003183	-0.00040	mg/L	0.003183	789.95%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	3.3	-0.00026	mg/L	0.000027	-0.00026	mg/L	0.000027	10.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	-17.6	-0.00003	mg/L	0.000026	-0.00003	mg/L	0.000026	89.55%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	180.0	0.00475	mg/L	0.000366	0.00475	mg/L	0.000366	7.70%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	-3.4	0.00896	mg/L	0.067985	0.00896	mg/L	0.067985	758.43%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	4.0	0.00011	mg/L	0.000258	0.00011	mg/L	0.000258	230.19%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	6.1	0.00029	mg/L	0.000040	0.00029	mg/L	0.000040	13.82%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-28.0	-0.00041	mg/L	0.000122	-0.00041	mg/L	0.000122	29.54%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	75.5	0.00073	mg/L	0.000875	0.00073	mg/L	0.000875	120.64%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.2	0.00310	mg/L	0.002949	0.00310	mg/L	0.002949	95.15%
QC value within limits for Fe 239.562 Recovery = Not calculated								

Approved: February 22, 2011
Pierre Morris

```
Mg 279.077†              -9.8     0.00500 mg/L      0.004123     0.00500 mg/L      0.004123  82.52%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†              17.4    -0.00014 mg/L      0.000007    -0.00014 mg/L      0.000007   5.34%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               2.0     0.00011 mg/L      0.000272     0.00011 mg/L      0.000272 242.78%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†              -3.7     0.00004 mg/L      0.000206     0.00004 mg/L      0.000206 516.30%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               5.3    -0.00107 mg/L      0.001379    -0.00107 mg/L      0.001379 128.71%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               0.7     0.00170 mg/L      0.003007     0.00170 mg/L      0.003007 177.21%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -0.8     0.00052 mg/L      0.001113     0.00052 mg/L      0.001113 212.85%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               8.5    -0.00304 mg/L      0.000719    -0.00304 mg/L      0.000719  23.61%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              12.4     0.00112 mg/L      0.001130     0.00112 mg/L      0.001130 101.26%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†              12.6     0.00003 mg/L      0.000028     0.00003 mg/L      0.000028  87.41%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -1.4     0.00104 mg/L      0.002924     0.00104 mg/L      0.002924 280.00%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              -81.7    -0.00018 mg/L      0.000119    -0.00018 mg/L      0.000119  66.25%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†               3.6     0.00010 mg/L      0.000127     0.00010 mg/L      0.000127 121.37%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               82.5     0.00981 mg/L      0.041762     0.00981 mg/L      0.041762 425.55%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             264.9     0.00357 mg/L      0.010065     0.00357 mg/L      0.010065 281.85%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†              12.4     0.00021 mg/L      0.000107     0.00021 mg/L      0.000107  50.58%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             -68.1    -0.00022 mg/L      0.000374    -0.00022 mg/L      0.000374 171.43%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.
```

Approved: February 22, 2011

Pierre Morris

2.2.2 Metals ICP-MS Data

2.2.2.1 Summary Data

Login Number: L11020447

Department: Metals

Analyst: Ji Hu
Analyst #2: Erin Long

METHOD

Preparation: SW-846 3051/3015

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG356983 - All acceptance criteria were met.

WG356974 - All acceptance criteria were met.

Matrix Spikes: WG356983 - Sample 01 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) met all acceptance criteria.

SAMPLES

Samples: WG356983 - Due to the high levels of nontarget analytes, client samples 01 through 04, 06 and 07 were analyzed initially at dilutions for all analytes.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 21859
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11020447

03/01/11 15:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SITE #1-TPS-2-16-11-COMP	L11020447-01	6020	5	17-FEB-11
SITE #1-2-16-11-DUP	L11020447-02	6020	5	17-FEB-11
SITE #1-2-16-11-MS	L11020447-03	6020	5	17-FEB-11
SITE #1-2-16-11-MSD	L11020447-04	6020	5	17-FEB-11
SITE #1-2-16-11-FB	L11020447-05	6020	1	17-FEB-11
SITE #1-2-16-11-CLAY-C	L11020447-06	6020	5	17-FEB-11
SITE #1-2-16-11-CLAY-C-2	L11020447-07	6020	5	17-FEB-11

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-01	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SITE #1-TPS-2-16-11-COMP	Prep Method:	3051A	Prep Date:	02/18/2011 05:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/18/2011 11:54
Workgroup Number:	WG356983	Analyst:	JYH	Run Date:	02/18/2011 16:34
Collect Date:	02/16/2011 11:20	Dilution:	5	File ID:	EL.021811.163456
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	3.15		1.78	0.891
Lead, Total	7439-92-1	13.9		1.19	0.594
Selenium, Total	7782-49-2	0.648	J	1.19	0.594
Thallium, Total	7440-28-0	0.124	J	0.238	0.119

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-02	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SITE #1-2-16-11-DUP	Prep Method:	3051A	Prep Date:	02/18/2011 05:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/18/2011 11:54
Workgroup Number:	WG356983	Analyst:	JYH	Run Date:	02/18/2011 16:41
Collect Date:	02/16/2011 11:20	Dilution:	5	File ID:	EL.021811.164143
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	85.5

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	3.92		1.74	0.868
Lead, Total	7439-92-1	13.0		1.16	0.579
Selenium, Total	7782-49-2	0.711	J	1.16	0.579
Thallium, Total	7440-28-0	0.124	J	0.231	0.116

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-03	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SITE #1-2-16-11-MS	Prep Method:	3051A	Prep Date:	02/18/2011 05:51
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/18/2011 11:54
Workgroup Number:	WG356983	Analyst:	JYH	Run Date:	02/18/2011 16:48
Collect Date:	02/16/2011 11:20	Dilution:	5	File ID:	EL.021811.164831
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	14.6		1.78	0.891
Lead, Total	7439-92-1	25.6		1.19	0.594
Selenium, Total	7782-49-2	12.3		1.19	0.594
Thallium, Total	7440-28-0	11.8		0.238	0.119

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-04**
Client ID: **SITE #1-2-16-11-MSD**
Matrix: **Soil**
Workgroup Number: **WG356983**
Collect Date: **02/16/2011 11:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **5**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **02/18/2011 05:52**
Cal Date: **02/18/2011 11:54**
Run Date: **02/18/2011 16:55**
File ID: **EL.021811.165519**
Percent Solid: **84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	15.0		1.78	0.891
Lead, Total	7439-92-1	26.8		1.19	0.594
Selenium, Total	7782-49-2	11.5		1.19	0.594
Thallium, Total	7440-28-0	11.9		0.238	0.119

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-05	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SITE #1-2-16-11-FB	Prep Method:	3015	Prep Date:	02/18/2011 07:09
Matrix:	Water	Analytical Method:	6020	Cal Date:	02/22/2011 09:56
Workgroup Number:	WG356974	Analyst:	JYH	Run Date:	02/22/2011 16:24
Collect Date:	02/16/2011 12:20	Dilution:	1	File ID:	EL.022211.162455
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Selenium, Total	7782-49-2		U	0.00100	0.000500
Thallium, Total	7440-28-0		U	0.000200	0.000100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-06	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SITE #1-2-16-11-CLAY-C	Prep Method:	3051A	Prep Date:	02/18/2011 05:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/18/2011 11:54
Workgroup Number:	WG356983	Analyst:	JYH	Run Date:	02/18/2011 17:02
Collect Date:	02/16/2011 12:40	Dilution:	5	File ID:	EL.021811.170206
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	81.7

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	9.09		1.78	0.888
Lead, Total	7439-92-1	14.7		1.18	0.592
Selenium, Total	7782-49-2	0.742	J	1.18	0.592
Thallium, Total	7440-28-0	0.465		0.237	0.118

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-07	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SITE #1-2-16-11-CLAY-C-2	Prep Method:	3051A	Prep Date:	02/18/2011 05:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/18/2011 11:54
Workgroup Number:	WG356983	Analyst:	JYH	Run Date:	02/18/2011 17:08
Collect Date:	02/16/2011 12:45	Dilution:	5	File ID:	EL.021811.170851
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	78.9

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	10.3		1.86	0.928
Lead, Total	7439-92-1	14.8		1.24	0.619
Selenium, Total	7782-49-2	0.979	J	1.24	0.619
Thallium, Total	7440-28-0	0.418		0.248	0.124

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

2.2.2.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	100
Vi = Initial volume	40
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/L)	0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	200
Vi = Initial volume	0.5
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/kg)	40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	40
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS

STANDARDS KEY

QC Std 1 - ICV
QC Std 2 - ICB
QC Std 3 - LLICV
QC Std 4 - ICSA
QC Std 5 - ICSAB
QC Std 6 - CCV
QC Std 7 - CCB
QC Std 8 - LLCCV

Calibration Solutions

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
U	1000	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG356891
Analyst: VC
Spike Analyst: VC
Run Date: 02/18/2011 05:52
Method: 3051A

SOP: ME406 Revison 12
Spike Solution: STD41894
Spike Witness: REK
HNO3 Lot #: COA15168
Digestion Tubes Lot #: COA15251

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG356891-02	BLANK	7	.5 g	200 mL	173.649 g	173.621 g		
2	WG356891-03	LCS	7	.5 g	200 mL	174.2 g	174.179 g	.5 mL	
3	L11020002-29	ML29	7	.5 g	200 mL	174.948 g	174.91 g	.5 mL	02/28/11
4	L11020002-30	ML30	7	.5 g	200 mL	174.663 g	174.626 g	.5 mL	02/28/11
5	L11020002-31	ML31	7	.5 g	200 mL	174.402 g	174.338 g	.5 mL	02/28/11
6	L11020002-32	ML32	7	.5 g	200 mL	174.53 g	174.488 g	.5 mL	02/28/11
7	WG356891-01	REF	7	.501 g	200 mL	173.886 g	173.883 g		
8	L11020447-01	RS01	7	.501 g	200 mL	173.886 g	173.883 g		02/24/11
9	L11020447-02	SAMP	7	.505 g	200 mL	176.472 g	176.468 g		02/24/11
10	WG356891-04	MS	7	.501 g	200 mL	174.104 g	174.1 g	.5 mL	
11	L11020447-03	MS01	7	.501 g	200 mL	174.104 g	174.1 g	.5 mL	02/24/11
12	WG356891-05	MSD	7	.501 g	200 mL	174.574 g	174.568 g	.5 mL	
13	L11020447-04	SD01	7	.501 g	200 mL	174.574 g	174.568 g	.5 mL	02/24/11
14	L11020447-06	SAMP	7	.517 g	200 mL	175.853 g	175.844 g		02/24/11
15	L11020447-07	SAMP	7	.512 g	200 mL	173.465 g	173.457 g		02/24/11

Analyst: Vicki Collins

Reviewer:

MW_DIG - Modified 09/30/2009
PDF ID: 1922535
Report generated: 02/18/2011 07:25

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG356896
Analyst: VC
Spike Analyst: VC
Run Date: 02/18/2011 07:09
Method: 3015

SOP: ME407 Revison 11
Spike Solution: STD41894
Spike Witness: REK
HNO3 Lot #: COA15168
Digestion Tubes Lot #: COA15251
ICP-MS;WG353543 Lot #: COA15150

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG356896-04	BLANK	1	40 mL	100 mL	206.03 g	206.012 g		
2	WG356896-05	LCS	1	40 mL	100 mL	205.422 g	205.409 g	.25 mL	
3	L11020402-02	SAMP	1	40 mL	100 mL	206.761 g	206.746 g		03/02/11
4	WG356896-01	REF	1	40 mL	100 mL	205.223 g	205.194 g		
5	L11020402-07	RS02	1	40 mL	100 mL	205.223 g	205.194 g		03/02/11
6	WG356896-06	MS	1	40 mL	100 mL	206.873 g	206.83 g	.25 mL	
7	L11020402-08	MS02	1	40 mL	100 mL	206.873 g	206.83 g	.25 mL	03/02/11
8	WG356896-07	MSD	1	40 mL	100 mL	206.599 g	206.555 g	.25 mL	
9	L11020402-09	SD02	1	40 mL	100 mL	206.599 g	206.555 g	.25 mL	03/02/11
10	L11020402-14	SAMP	1	40 mL	100 mL	206.12 g	206.101 g		03/02/11
11	L11020402-17	SAMP	1	40 mL	100 mL	205.631 g	205.624 g		03/02/11
12	L11020402-20	SAMP	1	40 mL	100 mL	208.191 g	208.179 g		03/02/11
13	L11020402-23	SAMP	1	40 mL	100 mL	206.72 g	206.716 g		03/02/11
14	L11020434-01	SAMP	1	40 mL	100 mL	209.759 g	209.745 g		02/25/11
15	WG356896-02	REF	2	40 mL	100 mL	206.724 g	206.723 g		
16	L11020443-01	SAMP	2	40 mL	100 mL	206.724 g	206.723 g		02/28/11
17	L11020447-05	SAMP	1	40 mL	100 mL	209.741 g	209.729 g		02/24/11
18	L11020450-01	SAMP	2	40 mL	100 mL	209.305 g	209.293 g		02/28/11
19	WG356896-03	REF	2	40 mL	100 mL	204.736 g	204.724 g		
20	L11020450-02	SAMP	2	40 mL	100 mL	204.736 g	204.724 g		02/28/11
21	WG356896-08	MS	1	40 mL	100 mL	205.55 g	205.539 g	.25 mL	
22	WG356896-09	DUP	1	40 mL	100 mL	206.513 g	206.498 g		

Analyst: Vicki Collins

Reviewer:

MW_DIG - Modified 09/30/2009
PDF ID: 1922558
Report generated: 02/18/2011 08:23

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 021811B.REP
Analyst1: EDL Analyst2: JYH
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 36483

Calibration Std: STD43845 ICV Std: STD43557 Post Spike: STD42704
ICSA: STD43561 ICSAB: STD44048 Int. Std: STD43721
CCV: STD43914 LLCCV: STD44016

Workgroups: 356813, 356814, 356798, 356983

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.021811.112701	Blank	Blank		1		02/18/11 11:27
2	EL.021811.113345	WG356986-01	Calibration Point		1		02/18/11 11:33
3	EL.021811.114030	WG356986-02	Calibration Point		1		02/18/11 11:40
4	EL.021811.114715	WG356986-03	Calibration Point		1		02/18/11 11:47
5	EL.021811.115402	WG356986-04	Calibration Point		1		02/18/11 11:54
6	EL.021811.120047	WG356986-05	Initial Calibration Verification		1		02/18/11 12:00
7	EL.021811.120811	WG356986-06	Initial Calib Blank		1		02/18/11 12:08
8	EL.021811.121458	WG356986-07	Low Level Initial Calibration V		1		02/18/11 12:14
9	EL.021811.122147	WG356986-08	Interference Check		1		02/18/11 12:21
10	EL.021811.122835	WG356986-09	Interference Check		1		02/18/11 12:28
11	EL.021811.124007	WG356986-10	Interference Check		1		02/18/11 12:40
12	EL.021811.125353	WG356986-11	CCV		1		02/18/11 12:53
13	EL.021811.130109	WG356986-12	CCB		1		02/18/11 13:01
14	EL.021811.130753	WG356783-02	PBW 46 WG356783-02	40/100	1		02/18/11 13:07
15	EL.021811.131437	L11020002-25	BOB/ERIN L. 1	40/100	1		02/18/11 13:14
16	EL.021811.132122	L11020002-26	BOB/ERIN L. 2	40/100	1		02/18/11 13:21
17	EL.021811.132807	L11020002-27	BOB/ERIN L. 3	40/100	1		02/18/11 13:28
18	EL.021811.133453	L11020002-28	BOB/ERIN L. 4	40/100	1		02/18/11 13:34
19	EL.021811.134139	WG356986-13	CCV		1		02/18/11 13:41
20	EL.021811.134855	WG356986-14	CCB		1		02/18/11 13:48
21	EL.021811.135540	WG356785-02	PBW C4 WG356785-02	.5/200	1		02/18/11 13:55
22	EL.021811.140226	L11020002-41	BOB/ERIN L. 1		1		02/18/11 14:02
23	EL.021811.141357	L11020002-41	BOB/ERIN L. 1	.5/200	1		02/18/11 14:13
24	EL.021811.142044	L11020002-42	BOB/ERIN L. 2	.5/200	1		02/18/11 14:20
25	EL.021811.142731	L11020002-43	BOB/ERIN L. 3	.5/200	1		02/18/11 14:27
26	EL.021811.143418	L11020002-44	BOB/ERIN L. 4	.5/200	1		02/18/11 14:34
27	EL.021811.144105	WG356986-15	CCV		1		02/18/11 14:41
28	EL.021811.144821	WG356986-16	CCB		1		02/18/11 14:48
29	EL.021811.145528	WG356891-02	Method/Prep Blank		1		02/18/11 14:55
30	EL.021811.150215	WG356891-03	Laboratory Control S		1		02/18/11 15:02
31	EL.021811.150902	WG356891-01	Reference Sample		1	L11020447-01	02/18/11 15:09
32	EL.021811.152001	WG356756-05	Method/Prep Blank	40/100	1		02/18/11 15:20
33	EL.021811.152647	WG356756-06	Laboratory Control S	40/100	1		02/18/11 15:26
34	EL.021811.153332	WG356756-04	Reference Sample		1	L11020397-01	02/18/11 15:33

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Instrument Run Log

Instrument: ELAN-ICP Dataset: 021811B.REP
Analyst1: EDL Analyst2: JYH
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 36483

Calibration Std: STD43845 ICV Std: STD43557 Post Spike: STD42704
ICSA: STD43561 ICSAB: STD44048 Int. Std: STD43721
CCV: STD43914 LLCCV: STD44016

Workgroups: 356813, 356814, 356798, 356983

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.021811.154017	WG356756-10	Matrix Spike	40/100	1	L11020397-01	02/18/11 15:40
36	EL.021811.154703	WG356756-11	Matrix Spike Duplica	40/100	1	L11020397-01	02/18/11 15:47
37	EL.021811.155348	WG356798-03	Post Digestion Spike		1	L11020397-01	02/18/11 15:53
38	EL.021811.160034	WG356798-04	Serial Dilution		5	L11020397-01	02/18/11 16:00
39	EL.021811.160721	WG356986-17	CCV		1		02/18/11 16:07
40	EL.021811.161437	WG356986-18	CCB		1		02/18/11 16:14
41	EL.021811.162122	WG356891-02	Method/Prep Blank	.5/200	1		02/18/11 16:21
42	EL.021811.162809	WG356891-03	Laboratory Control S	.5/200	1		02/18/11 16:28
43	EL.021811.163456	L11020447-01	SITE \#1-TPS-2-16-11-COMP		5	WG356891-01	02/18/11 16:34
44	EL.021811.164143	L11020447-02	SITE \#1-2-16-11-DUP	.505/200	5		02/18/11 16:41
45	EL.021811.164831	L11020447-03	SITE \#1-2-16-11-MS	.501/200	5	WG356891-04	02/18/11 16:48
46	EL.021811.165519	L11020447-04	SITE \#1-2-16-11-MSD	.501/200	5	WG356891-05	02/18/11 16:55
47	EL.021811.170206	L11020447-06	SITE \#1-2-16-11-CLAY-C	.517/200	5		02/18/11 17:02
48	EL.021811.170851	L11020447-07	SITE \#1-2-16-11-CLAY-C-2	.512/200	5		02/18/11 17:08
49	EL.021811.171536	WG356983-01	Post Digestion Spike		5	L11020447-07	02/18/11 17:15
50	EL.021811.172222	WG356983-02	Serial Dilution		25	L11020447-07	02/18/11 17:22
51	EL.021811.172908	WG356986-19	CCV		1		02/18/11 17:29
52	EL.021811.173624	WG356986-20	CCB		1		02/18/11 17:36

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10			Data not used - the solution was made up incorrectly.	
22			Data not used.	
29			Data not used - analyzed out of order.	
30			Data not used - analyzed out of order.	
31			Data not used - analyzed out of order.	

Page: 2 Approved: February 22, 2011

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Instrument Run Log

Instrument: ELAN-ICP Dataset: 022211A.REP
Analyst1: EDL Analyst2: JYH
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 36515

Calibration Std: STD43845 ICV Std: STD43557 Post Spike: STD42704
ICSA: STD43561 ICSAB: STD44048 Int. Std: STD43721
CCV: STD43914 LLCCV: STD44016

Workgroups: 357188, 356974, 357217, 357249, 355427

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.022211.092949	Blank	Blank		1		02/22/11 09:29
2	EL.022211.093634	WG357212-01	Calibration Point		1		02/22/11 09:36
3	EL.022211.094318	WG357212-02	Calibration Point		1		02/22/11 09:43
4	EL.022211.095004	WG357212-03	Calibration Point		1		02/22/11 09:50
5	EL.022211.095650	WG357212-04	Calibration Point		1		02/22/11 09:56
6	EL.022211.100335	WG357212-05	Initial Calibration Verification		1		02/22/11 10:03
7	EL.022211.101059	WG357212-06	Initial Calib Blank		1		02/22/11 10:10
8	EL.022211.101747	WG357212-07	Low Level Initial Calibration V		1		02/22/11 10:17
9	EL.022211.102435	WG357212-18	Interference Check		1		02/22/11 10:24
10	EL.022211.103123	WG357212-19	Interference Check		1		02/22/11 10:31
11	EL.022211.103811	WG357212-10	CCV		1		02/22/11 10:38
12	EL.022211.104527	WG357212-11	CCB		1		02/22/11 10:45
13	EL.022211.105211	WG357046-02	Method/Prep Blank	40/100	1		02/22/11 10:52
14	EL.022211.105856	WG357046-03	Laboratory Control S	40/100	1		02/22/11 10:58
15	EL.022211.110541	L11020486-02	MW2A.258.14	40/100	1		02/22/11 11:05
16	EL.022211.111226	WG357046-01	Reference Sample		1	L11020486-07	02/22/11 11:12
17	EL.022211.111912	WG357046-04	Matrix Spike	40/100	1	L11020486-07	02/22/11 11:19
18	EL.022211.112557	WG357046-05	Matrix Spike Duplica	40/100	1	L11020486-07	02/22/11 11:25
19	EL.022211.113244	L11020486-14	MW4A.258.14	40/100	1		02/22/11 11:32
20	EL.022211.113930	L11020486-17	MW5A.258.14	40/100	1		02/22/11 11:39
21	EL.022211.114617	WG357188-01	Post Digestion Spike		1	L11020486-17	02/22/11 11:46
22	EL.022211.115305	WG357188-02	Serial Dilution		5	L11020486-17	02/22/11 11:53
23	EL.022211.115952	WG357212-12	CCV		1		02/22/11 11:59
24	EL.022211.120707	WG357212-13	CCB		1		02/22/11 12:07
25	EL.022211.121353	L11020486-20	OW1A.258.14	40/100	1		02/22/11 12:13
26	EL.022211.122040	L11020486-23	OW1A2.258.14	40/100	1		02/22/11 12:20
27	EL.022211.122724	L11020486-26	OW2A.258.14	40/100	1		02/22/11 12:27
28	EL.022211.123410	L11020486-29	OW3A.258.14	40/100	1		02/22/11 12:34
29	EL.022211.124055	L11020492-02	SWMU-57-POND-21711-W	40/100	1		02/22/11 12:40
30	EL.022211.124741	WG357212-14	CCV		1		02/22/11 12:47
31	EL.022211.125457	WG357212-15	CCB		1		02/22/11 12:54
33	EL.022211.130828	L11020275-02	MNPL-MPL-MPL-103-0211	40/100	1		02/22/11 13:08
34	EL.022211.131515	L11020275-03	MNPL-MPL-MPL-023-0211	40/100	1		02/22/11 13:15
35	EL.022211.132201	L11020275-04	MNPL-MPL-MPL-123-0211	40/100	1		02/22/11 13:22

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Instrument Run Log

Instrument: ELAN-ICP Dataset: 022211A.REP
Analyst1: EDL Analyst2: JYH
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 36515

Calibration Std: STD43845 ICV Std: STD43557 Post Spike: STD42704
ICSA: STD43561 ICSAB: STD44048 Int. Std: STD43721
CCV: STD43914 LLCCV: STD44016

Workgroups: 357188, 356974, 357217, 357249, 355427

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
36	EL.022211.132849	L11020275-05	MNPL-MPL-MPL-025-0211	40/100	1		02/22/11 13:28
37	EL.022211.133536	L11020298-01	MNPL-MPL-MPL-003-0211	40/100	1		02/22/11 13:35
38	EL.022211.134224	F BLANK	F BLANK		1		02/22/11 13:42
39	EL.022211.134911	WG357212-16	CCV		1		02/22/11 13:49
40	EL.022211.135627	WG357212-17	CCB		1		02/22/11 13:56
41	EL.022211.142915	WG356896-04	Method/Prep Blank	40/100	1		02/22/11 14:29
42	EL.022211.143602	WG356896-05	Laboratory Control S	40/100	1		02/22/11 14:36
43	EL.022211.144247	L11020402-02	SW1A.258.14	40/100	1		02/22/11 14:42
44	EL.022211.144932	WG356896-01	Reference Sample		1	L11020402-07	02/22/11 14:49
45	EL.022211.145618	WG356896-06	Matrix Spike	40/100	1	L11020402-07	02/22/11 14:56
46	EL.022211.150304	WG356896-07	Matrix Spike Duplica	40/100	1	L11020402-07	02/22/11 15:03
47	EL.022211.150950	L11020402-14	SW3A.258.14	40/100	1		02/22/11 15:09
48	EL.022211.151637	L11020402-17	SW3B.258.14	40/100	1		02/22/11 15:16
49	EL.022211.152324	WG356974-01	Post Digestion Spike		1	L11020402-17	02/22/11 15:23
50	EL.022211.153011	WG356974-02	Serial Dilution		5	L11020402-17	02/22/11 15:30
51	EL.022211.153659	WG357212-20	CCV		1		02/22/11 15:36
52	EL.022211.154414	WG357212-21	CCB		1		02/22/11 15:44
53	EL.022211.155100	L11020402-20	SW4A.258.14	40/100	1		02/22/11 15:51
54	EL.022211.155749	L11020402-23	SW5A.258.14	40/100	1		02/22/11 15:57
55	EL.022211.160437	L11020434-01	01SYS-EFF-021411	40/100	1		02/22/11 16:04
56	EL.022211.161124	WG356896-02	Reference Sample		1	L11020443-01	02/22/11 16:11
57	EL.022211.161809	WG356896-08	Matrix Spike	40/100	1	L11020443-01	02/22/11 16:18
58	EL.022211.162455	L11020447-05	SITE \#1-2-16-11-FB	40/100	1		02/22/11 16:24
59	EL.022211.163141	L11020450-01	OUTFALL 003	40/100	1		02/22/11 16:31
60	EL.022211.163828	WG356896-03	Reference Sample		1	L11020450-02	02/22/11 16:38
61	EL.022211.164515	WG356896-09	Duplicate	40/100	1	L11020450-02	02/22/11 16:45
62	EL.022211.165202	WG357212-22	CCV		1		02/22/11 16:52
63	EL.022211.165917	WG357212-23	CCB		1		02/22/11 16:59
64	EL.022211.170603	WG357168-02	Method/Prep Blank	40/100	1		02/22/11 17:06
66	EL.022211.171938	L11020517-01	PSO2-GW-021811	40/100	1		02/22/11 17:19
67	EL.022211.172627	L11020533-01	LH18/24-SP650-6443-GRAB	40/100	1		02/22/11 17:26
68	EL.022211.173315	WG357168-01	Reference Sample		1	L11020533-02	02/22/11 17:33
69	EL.022211.174004	WG357168-04	Matrix Spike	40/100	1	L11020533-02	02/22/11 17:40
70	EL.022211.174651	WG357168-05	Matrix Spike Duplica	40/100	1	L11020533-02	02/22/11 17:46

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Instrument Run Log

Instrument: ELAN-ICP Dataset: 022211A.REP
Analyst1: EDL Analyst2: JYH
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 36515

Calibration Std: STD43845 ICV Std: STD43557 Post Spike: STD42704
ICSA: STD43561 ICSAB: STD44048 Int. Std: STD43721
CCV: STD43914 LLCCV: STD44016

Workgroups: 357188, 356974, 357217, 357249, 355427

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
71	EL.022211.175337	L11020545-13	GB-57-1-EQ	40/100	1		02/22/11 17:53
72	EL.022211.180023	WG357217-01	Post Digestion Spike		1	L11020545-13	02/22/11 18:00
73	EL.022211.180710	WG357217-02	Serial Dilution		5	L11020545-13	02/22/11 18:07
74	EL.022211.181356	WG357212-24	CCV		1		02/22/11 18:13
75	EL.022211.182112	WG357212-25	CCB		1		02/22/11 18:21
76	EL.022211.182758	L11020547-12	GB-68-1.5-EQ	40/100	1		02/22/11 18:27
77	EL.022211.183445	F BLANK	F BLANK		1		02/22/11 18:34
78	EL.022211.184132	WG357212-26	Interference Check		1		02/22/11 18:41
79	EL.022211.184820	WG357212-27	Interference Check		1		02/22/11 18:48
80	EL.022211.185508	WG357212-28	CCV		1		02/22/11 18:55
81	EL.022211.190224	WG357212-29	CCB		1		02/22/11 19:02
82	EL.022211.190910	WG357212-30	Low Level Continuing Calibra		1		02/22/11 19:09
83	EL.022211.191559	WG356440-01	Method/Prep Blank	.5/200	1		02/22/11 19:15
84	EL.022211.192247	L11020002-37	VICKI/JI 1	.5/200	1		02/22/11 19:22
85	EL.022211.192935	L11020002-38	VICKI/JI 2	.5/200	1		02/22/11 19:29
86	EL.022211.193624	L11020002-39	VICKI/JI 3	.5/200	1		02/22/11 19:36
87	EL.022211.194312	L11020002-40	VICKI/JI 4	.5/200	1		02/22/11 19:43
88	EL.022211.195002	L11010707-08	D073-540	.507/200	25		02/22/11 19:50
89	EL.022211.195650	WG357212-31	CCV		1		02/22/11 19:56
90	EL.022211.200405	WG357212-32	CCB		1		02/22/11 20:04
91	EL.022211.130142	L11020575-01	VMP1-GW-022111	40/100	1		02/22/11 13:01
92	EL.022211.171250	WG357468-03	LCSW 73 WG357468-03	40/100	1		02/22/11 17:12
93	EL.022311.081951	WG357212-33	QC Std 5		1		02/23/11 08:19
94	EL.022311.082640	WG357212-34	QC Std 5		1		02/23/11 08:26

  Approved: February 23, 2011

Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 18-FEB-2011
Analyst: EDL
Analyst: JYH
Method: 6020
Instrument: ELAN-ICP
Curve Workgroup: 356986
Runlog ID: 39098
Analytical Workgroups: 356813, 356814, 356798, 356983

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	397, 447
Client Forms	X
Level X	
Level 3	
Level 4	002, 397, 447
Check for compliance with method and project specific requirements	
Check the completeness of reported information	
Check the information for the report narrative	
Primary Reviewer	EDL
Secondary Reviewer	
Comments	

Primary Reviewer: Secondary Reviewer:
21-FEB-2011

Erin D. Long

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-21-2011 15:35:04

Microbac Laboratories Inc.

Data Checklist

Date: 22-FEB-2011
Analyst: EDL
Analyst: JYH
Method: 6020
Instrument: ELAN-ICP
Curve Workgroup: 357212
Runlog ID: 39143
Analytical Workgroups: 357188, 356896, 357217, 357249, 355427

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	275, 298, 492, 434, 447, 517, 533
Case Narrative (Continued)	545, 547
Client Forms	X
Level X	
Level 3	517, 533, 545, 547
Level 4	275, 298, 492, 434, 447
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	EDL
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
23-FEB-2011
Erin D. Long

Secondary Reviewer:
24-FEB-2011
Maren Beery

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-24-2011 10:25:58

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG356983

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-TPS-2-16-11-COM	01	02/16/11					02/18/11	1.8	180		02/18/11	2.2	180	
SITE #1-2-16-11-DUP	02	02/16/11					02/18/11	1.8	180		02/18/11	2.2	180	
SITE #1-2-16-11-MS	03	02/16/11					02/18/11	1.8	180		02/18/11	2.2	180	
SITE #1-2-16-11-MSD	04	02/16/11					02/18/11	1.8	180		02/18/11	2.2	180	
SITE #1-2-16-11-CLAY-C	06	02/16/11					02/18/11	1.7	180		02/18/11	2.2	180	
SITE #1-2-16-11-CLAY-C-	07	02/16/11					02/18/11	1.7	180		02/18/11	2.2	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1924315
Report generated 02/23/2011 08:24

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 6020 AAB#: WG356974

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-2-16-11-FB	05	02/16/11					02/18/11	1.8	180		02/22/11	6.2	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1924315
Report generated 02/23/2011 08:24

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Work Group: WG356983
Blank File ID: EL.021811.162122
Blank Sample ID: WG356891-02
Prep Date: 02/18/11 05:52
Instrument ID: ELAN-ICP
Analyzed Date: 02/18/11 16:21
Method: 6020
Analyst: JYH

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356891-03	EL.021811.162809	02/18/11 16:28	01
SITE #1-TPS-2-16-11-COMP	L11020447-01	EL.021811.163456	02/18/11 16:34	DL01
SITE #1-2-16-11-DUP	L11020447-02	EL.021811.164143	02/18/11 16:41	DL01
SITE #1-2-16-11-MS	L11020447-03	EL.021811.164831	02/18/11 16:48	DL01
SITE #1-2-16-11-MSD	L11020447-04	EL.021811.165519	02/18/11 16:55	DL01
SITE #1-2-16-11-CLAY-C	L11020447-06	EL.021811.170206	02/18/11 17:02	DL01
SITE #1-2-16-11-CLAY-C-2	L11020447-07	EL.021811.170851	02/18/11 17:08	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1924316
Report generated 02/23/2011 08:24

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11020447	Work Group:	WG356974
Blank File ID:	EL.022211.142915	Blank Sample ID:	WG356896-04
Prep Date:	02/18/11 07:09	Instrument ID:	ELAN-ICP
Analyzed Date:	02/22/11 14:29	Method:	6020
Analyst:	JYH		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356896-05	EL.022211.143602	02/22/11 14:36	01
SITE #1-2-16-11-FB	L11020447-05	EL.022211.162455	02/22/11 16:24	01
DUP	WG356896-09	EL.022211.164515	02/22/11 16:45	01

Report Name: BLANK_SUMMARY
PDF File ID: 1924316
Report generated 02/23/2011 08:24

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/18/11 05:52 Sample ID: WG356891-02
Instrument ID: ELAN-ICP Run Date: 02/18/11 16:21 Prep Method: 3051A
File ID: EL.021811.162122 Analyst: JYH Method: 6020
Workgroup (AAB#): WG356983 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ELAN-I-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Arsenic, Total	0.150	0.300	0.150	1	U
Lead, Total	0.100	0.200	0.100	1	U
Selenium, Total	0.100	0.200	0.100	1	U
Thallium, Total	0.0200	0.0400	0.0200	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1924317
23-FEB-2011 08:24

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/18/11 07:09 Sample ID: WG356896-04
Instrument ID: ELAN-ICP Run Date: 02/22/11 14:29 Prep Method: 3015
File ID: EL.022211.142915 Analyst: JYH Method: 6020
Workgroup (AAB#): WG356974 Matrix: Water Units: mg/L
Contract #: Cal ID: ELAN-I-22-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Antimony, Total	0.000500	0.00100	0.000500	1	U
Selenium, Total	0.000500	0.00100	0.000500	1	U
Thallium, Total	0.000100	0.000200	0.000100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1924317
23-FEB-2011 08:24

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356891-03
Instrument ID: ELAN-ICP Run Time: 16:28 Prep Method: 3051A
File ID: EL.021811.162809 Analyst: JYH Method: 6020
Workgroup (AAB#): WG356983 Matrix: Soil Units: mg/kg
QC Key: DOD4 Lot#: STD41894 Cal ID: ELAN-I-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Total	10.0	9.33	93.3	80 - 120	
Lead, Total	10.0	10.3	103	80 - 120	
Selenium, Total	10.0	8.81	88.1	80 - 120	
Thallium, Total	10.0	10.2	102	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1924318
Report generated: 02/23/2011 08:24

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG356896-05
Instrument ID: ELAN-ICP Run Time: 14:36 Prep Method: 3015
File ID: EL.022211.143602 Analyst: JYH Method: 6020
Workgroup (AAB#): WG356974 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD41894 Cal ID: ELAN-I-22-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Antimony, Total	0.0625	0.0623	99.7	80 - 120	
Selenium, Total	0.0625	0.0562	90.0	80 - 120	
Thallium, Total	0.0625	0.0673	108	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1924318
Report generated: 02/23/2011 08:24

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L11020447 Cal ID:ELAN-ICP- 18-FEB-11 Worknum:WG356983
Instrument ID:ELAN-ICP Contract #: Prep Method:3051A
Parent ID:L11020447-01 File ID:EL.021811.163456 Dil:5 Method:6020
Sample ID:L11020447-03 MS File ID:EL.021811.164831 Dil:5 Matrix:Soil
Sample ID:L11020447-04 MSD File ID:EL.021811.165519 Dil:5 Units:mg/kg
Percent Solid:84.0

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic, Total	3.15	11.9	14.6	96.4	11.9	15.0	100	2.88	80 - 120	20	
Lead, Total	13.9	11.9	25.6	99.1	11.9	26.8	109	4.40	80 - 120	20	
Selenium, Total	0.648	11.9	12.3	98.1	11.9	11.5	91.7	6.33	80 - 120	20	
Thallium, Total	0.124	11.9	11.8	98.5	11.9	11.9	99.4	0.844	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
PDF File ID: 1924319
Report generated 02/23/2011 16:25

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11020447 Cal ID:ELAN-ICP- Worknum:WG356974

Instrument ID:ELAN-ICP Contract #: Method:6020

Parent ID:WG356896-01 File ID:EL.022211.144932 Dil:1 Matrix:WATER

Sample ID:WG356896-06 MS File ID:EL.022211.145618 Dil:1 Units:mg/L

Sample ID:WG356896-07 MSD File ID:EL.022211.150304 Dil:1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Antimony	ND	0.0625	0.0621	99.3	0.0625	0.0622	99.6	0.255	80 - 120	20	
Selenium	ND	0.0625	0.0559	89.4	0.0625	0.0561	89.8	0.426	80 - 120	20	
Thallium	ND	0.0625	0.0660	106	0.0625	0.0660	106	0.0201	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008

PDF File ID:1924320

Report generated 02/23/2011 16:25

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020447 **Worknum:** WG356983
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG356983-02 **File ID:** EL.021811.172222 **Dil:** 25 **Units:** ug/L
Sample: L11020447-07 **File ID:** EL.021811.170851 **Dil:** 5

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Antimony	-.08		ND			
Arsenic	20.8	X	22.5	X	8.17	
Lead	29.9	X	29	X	3.01	
Selenium	1.975	F	ND	U		
Thallium	.845	X	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1924313
02/23/2011 08:24

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020447 **Worknum:** WG356974
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG356974-02 **File ID:** EL.022211.153011 **Dil:** 5 **Units:** ug/L
Sample: L11020402-17 **File ID:** EL.022211.151637 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Antimony	ND	U	ND	U		
Arsenic	-.0081		ND			
Lead	.0431		ND			
Selenium	ND	U	ND	U		
Thallium	ND	U	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1924313
02/23/2011 08:24

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020447 **Worknum:** WG356983
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG356983-01 **File ID:** EL.021811.171536 **Dil:** 5 **Units:** ug/L
Sample ID: L11020447-07 **File ID:** EL.021811.170851 **Dil:** 5 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ARSENIC	50.0		4.16		50	91.7	75 - 125	
LEAD	51.9		5.98		50	91.8	75 - 125	
SELENIUM	45.5		0.395	F	50	90.2	75 - 125	
THALLIUM	45.1		0.169		50	89.8	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1924314
Report generated: 02/23/2011 08:24

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020447 **Worknum:** WG356974
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG356974-01 **File ID:** EL.022211.152324 **Dil:** 1 **Units:** ug/L
Sample ID: L11020402-17 **File ID:** EL.022211.151637 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ANTIMONY	50.4		0	U	50	100.8	75 - 125	
SELENIUM	43.9		0	U	50	87.8	75 - 125	
THALLIUM	52.4		0	U	50	104.8	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1924314
Report generated: 02/23/2011 08:24

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020447**	Workgroup (AAB#):	**WG356983**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG356986**	Initial Calibration Date:	**18-FEB-2011 11:54**

	WG356986-01		WG356986-02		WG356986-03		WG356986-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ANTIMONY	0	126	.4	1670	50	189000	100	376000	.999919	
ARSENIC	0	-113	.4	236	50	53000	100	104000	1	
LEAD	0	1590	.4	12400	50	1270000	100	2490000	.999992	
SELENIUM	0	8.62	.4	34.3	50	4770	100	9360	.999998	
THALLIUM	0	12.3	.4	3120	50	381000	100	739000	.999954	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1924323
Report generated: 23-FEB-2011 08:25

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020447**	Workgroup (AAB#):	**WG356974**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG357212**	Initial Calibration Date:	**22-FEB-2011 09:56**

	WG357212-01		WG357212-02		WG357212-03		WG357212-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ANTIMONY	0	36.6	.4	1640	50	194000	100	372000	.999969	
ARSENIC	0	-201	.4	278	50	54400	100	103000	.999971	
LEAD	0	1540	.4	10900	50	1110000	100	2200000	.999962	
SELENIUM	0	-0.145	.4	39.5	50	5020	100	9430	.999929	
THALLIUM	0	19.3	.4	2790	50	327000	100	646000	.999954	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1924323
Report generated: 23-FEB-2011 08:25

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356986-06
Instrument ID: ELAN-ICP Run Time: 12:08 Method: 6020
File ID: EL.021811.120811 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG356983 Cal ID: ELAN-ICP - 18-FEB-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.375	.75	.375	U
LEAD	.25	.5	.25	U
SELENIUM	.25	.5	.25	U
THALLIUM	.05	.1	.05	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1924325
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357212-06
Instrument ID: ELAN-ICP Run Time: 10:10 Method: 6020
File ID: EL.022211.101059 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG356974 Cal ID: ELAN-ICP - 22-FEB-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ANTIMONY	.2	.4	.2	U
SELENIUM	.2	.4	.2	U
THALLIUM	.04	.08	.04	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1924325
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356986-12

Instrument ID: ELAN-ICP Run Time: 13:01 Method: 6020

File ID: EL.021811.130109 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG356983 Cal ID: ELAN-I - 18-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.375	0.750	0.375	U
Lead	0.250	0.500	0.250	U
Selenium	0.250	0.500	0.250	U
Thallium	0.0500	0.100	0.0500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1924328
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356986-18

Instrument ID: ELAN-ICP Run Time: 16:14 Method: 6020

File ID: EL.021811.161437 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG356983 Cal ID: ELAN-I - 18-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.375	0.750	0.375	U
Lead	0.250	0.500	0.250	U
Selenium	0.250	0.500	0.250	U
Thallium	0.0500	0.100	0.0500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1924328
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356986-20

Instrument ID: ELAN-ICP Run Time: 17:36 Method: 6020

File ID: EL.021811.173624 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG356983 Cal ID: ELAN-I - 18-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.375	0.750	0.375	U
Lead	0.250	0.500	0.250	U
Selenium	0.250	0.500	0.250	U
Thallium	0.0500	0.100	0.0500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1924328
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/22/2011	Sample ID:	WG357212-11
Instrument ID:	ELAN-ICP	Run Time:	10:45	Method:	6020
File ID:	EL.022211.104527	Analyst:	JYH	Units:	ug/L
Workgroup (AAB#):	WG356974	Cal ID:	ELAN-I - 22-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Selenium	0.200	0.400	0.200	U
Thallium	0.0400	0.0800	0.0400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1924328
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Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/22/2011	Sample ID:	WG357212-17
Instrument ID:	ELAN-ICP	Run Time:	13:56	Method:	6020
File ID:	EL.022211.135627	Analyst:	JYH	Units:	ug/L
Workgroup (AAB#):	WG356974	Cal ID:	ELAN-I - 22-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Selenium	0.200	0.400	0.200	U
Thallium	0.0400	0.0800	0.0400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1924328
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/22/2011	Sample ID:	WG357212-21
Instrument ID:	ELAN-ICP	Run Time:	15:44	Method:	6020
File ID:	EL.022211.154414	Analyst:	JYH	Units:	ug/L
Workgroup (AAB#):	WG356974	Cal ID:	ELAN-I - 22-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Selenium	0.200	0.400	0.200	U
Thallium	0.0400	0.0800	0.0400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1924328
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/22/2011	Sample ID:	WG357212-23
Instrument ID:	ELAN-ICP	Run Time:	16:59	Method:	6020
File ID:	EL.022211.165917	Analyst:	JYH	Units:	ug/L
Workgroup (AAB#):	WG356974	Cal ID:	ELAN-I - 22-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Selenium	0.200	0.400	0.200	U
Thallium	0.0400	0.0800	0.0400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1924328
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356986-05

Instrument ID: ELAN-ICP Run Time: 12:00 Method: 6020

File ID: EL.021811.120047 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG356983 Cal ID: ELAN-I - 18-FEB-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Arsenic		50	51.1	102	90 - 110	
Lead		50	50.7	101	90 - 110	
Selenium		50	52.0	104	90 - 110	
Thallium		50	49.4	98.9	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1924324

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357212-05

Instrument ID: ELAN-ICP Run Time: 10:03 Method: 6020

File ID: EL.022211.100335 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG356974 Cal ID: ELAN-I - 22-FEB-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Antimony		50	49.3	98.6	90 - 110	
Selenium		50	52.2	104	90 - 110	
Thallium		50	50.4	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1924324

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356986-11

Instrument ID: ELAN-ICP Run Time: 12:53 Method: 6020

File ID: EL.021811.125353 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356983 Cal ID: ELAN-I - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	50.7	ug/L	101	90 - 110		
Lead		50.0	50.2	ug/L	100	90 - 110		
Selenium		50.0	51.3	ug/L	103	90 - 110		
Thallium		50.0	48.8	ug/L	97.5	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924327

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356986-17

Instrument ID: ELAN-ICP Run Time: 16:07 Method: 6020

File ID: EL.021811.160721 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356983 Cal ID: ELAN-I - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	49.3	ug/L	98.6	90 - 110		
Lead		50.0	50.1	ug/L	100	90 - 110		
Selenium		50.0	48.6	ug/L	97.3	90 - 110		
Thallium		50.0	50.5	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924327

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356986-19

Instrument ID: ELAN-ICP Run Time: 17:29 Method: 6020

File ID: EL.021811.172908 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356983 Cal ID: ELAN-I - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	51.0	ug/L	102	90 - 110		
Lead		50.0	50.3	ug/L	101	90 - 110		
Selenium		50.0	50.3	ug/L	101	90 - 110		
Thallium		50.0	50.7	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924327

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357212-10

Instrument ID: ELAN-ICP Run Time: 10:38 Method: 6020

File ID: EL.022211.103811 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356974 Cal ID: ELAN-I - 22-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	49.4	ug/L	98.8	90 - 110		
Selenium		50.0	49.7	ug/L	99.4	90 - 110		
Thallium		50.0	48.3	ug/L	96.5	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924327

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357212-16

Instrument ID: ELAN-ICP Run Time: 13:49 Method: 6020

File ID: EL.022211.134911 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356974 Cal ID: ELAN-I - 22-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	50.6	ug/L	101	90 - 110		
Selenium		50.0	49.3	ug/L	98.6	90 - 110		
Thallium		50.0	50.1	ug/L	100	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924327

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357212-20

Instrument ID: ELAN-ICP Run Time: 15:36 Method: 6020

File ID: EL.022211.153659 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356974 Cal ID: ELAN-I - 22-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	49.9	ug/L	99.8	90 - 110		
Selenium		50.0	49.3	ug/L	98.5	90 - 110		
Thallium		50.0	50.2	ug/L	100	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924327

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357212-22

Instrument ID: ELAN-ICP Run Time: 16:52 Method: 6020

File ID: EL.022211.165202 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356974 Cal ID: ELAN-I - 22-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	49.2	ug/L	98.3	90 - 110		
Selenium		50.0	48.5	ug/L	97.0	90 - 110		
Thallium		50.0	50.2	ug/L	100	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1924327

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

LOW LEVEL CALIBRATION VERIFICATION

Login Number:	L11020447	Run Date:	02/18/2011	Sample ID:	WG356986-07
Instrument ID:	ELAN-ICP	Run Time:	12:14	Method:	6020
File ID:	EL.021811.121458	Analyst:	JYH	QC Key:	DOD4
Workgroup (AAB#):	WG356983	Cal ID:	ELAN-I - 18-FEB-11		
Matrix:	SOIL				

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Thallium		0.0800	0.0800	ug/L	100	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010
PDF File ID: 1924329
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11020447 Run Date: 02/22/2011 Sample ID: WG357212-07

Instrument ID: ELAN-ICP Run Time: 10:17 Method: 6020

File ID: EL.022211.101747 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG356974 Cal ID: ELAN-I - 22-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		0.400	0.431	ug/L	108	80 - 120		
Selenium		0.400	0.336	ug/L	84.0	80 - 120		
Thallium		0.0800	0.0868	ug/L	109	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010

PDF File ID: 1924329

Report generated 02/23/2011 08:25

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020447 **Workgroup (AAB#):** WG356983
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG356986-08 **File ID:** EL.021811.122147 **Units:** ug/L
Sol. AB : WG356986-10 **File ID:** EL.021811.124007 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	0.0977	NS	100	101	101	
Lead	NS	-0.00230	NS	100	104	104	
Selenium	NS	0.113	NS	100	99.1	99.1	
Thallium	NS	0.00480	NS	100	99.8	99.8	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1924326
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020447 **Workgroup (AAB#):** WG356974
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG357212-18 **File ID:** EL.022211.102435 **Units:** ug/L
Sol. AB : WG357212-19 **File ID:** EL.022211.103123 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Antimony	NS	0.0632	NS	100	99.4	99.4	
Selenium	NS	0.0317	NS	100	101	101	
Thallium	NS	0.0111	NS	100	102	102	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1924326
Report generated 02/23/2011 08:25

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11020447 **Analytical Method** 6020
Analytical Workgroup: WG356983 **Matrix:** 7
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 18-FEB-2011 11:33

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11020447-01	SAMP	18-FEB-2011 16:34	109.021	106.172	105.729	104.546
L11020447-02	SAMP	18-FEB-2011 16:41	110.011	106.313	104.823	100.878
L11020447-03	SAMP	18-FEB-2011 16:48	109.549	105.459	106.334	102.235
L11020447-04	SAMP	18-FEB-2011 16:55	108.73	106.039	106.406	104.33
L11020447-06	SAMP	18-FEB-2011 17:02	109.36	106.898	105.463	98.23
L11020447-07	SAMP	18-FEB-2011 17:08	110.545	108.731	103.047	98.18
WG356891-01	REF	18-FEB-2011 16:34	109.021	106.172	105.729	104.546
WG356891-02	BLANK	18-FEB-2011 16:21	114.202	104.075	109.689	110.011
WG356891-03	LCS	18-FEB-2011 16:28	115.407	104.845	112.982	112.15
WG356891-04	MS	18-FEB-2011 16:48	109.549	105.459	106.334	102.235
WG356891-05	MSD	18-FEB-2011 16:55	108.73	106.039	106.406	104.33
WG356983-01	PSPK	18-FEB-2011 17:15	105.713	109.951	101.554	95.312
WG356983-02	SERIAL	18-FEB-2011 17:22	108.971	111.171	105.332	99.473
WG356986-05	ICV	18-FEB-2011 12:00	101.216	97.503	97.798	96.153
WG356986-06	ICB	18-FEB-2011 12:08	99.396	98.245	98.489	96.297
WG356986-07	LLICV	18-FEB-2011 12:14	101.272	98.332	99.013	96.117
WG356986-08	ICS	18-FEB-2011 12:21	93.419	95.392	95.627	91.055
WG356986-10	ICS	18-FEB-2011 12:40	91.125	94.609	93.123	88.303
WG356986-11	CCV	18-FEB-2011 12:53	94.232	96.202	93.826	91.331
WG356986-12	CCB	18-FEB-2011 13:01	95.565	96.769	93.13	95.401
WG356986-17	CCV	18-FEB-2011 16:07	107.15	101.261	103.435	100.843
WG356986-18	CCB	18-FEB-2011 16:14	112.321	103.13	108.946	105.784
WG356986-19	CCV	18-FEB-2011 17:29	106.503	105.446	102.343	98.145
WG356986-20	CCB	18-FEB-2011 17:36	110.02	109.942	108.574	105.339

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1924322
Report generated: 02/23/2011 08:25

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11020447 **Analytical Method** 6020
Analytical Workgroup: WG356974 **Matrix:** 1
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 22-FEB-2011 09:36

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11020402-17	SAMP	22-FEB-2011 15:16	98.601	84.917	93.483	100.849
L11020447-05	SAMP	22-FEB-2011 16:24	110.416	86.791	99.085	108.294
WG356896-01	REF	22-FEB-2011 14:49	95.298	83.385	90.64	96.6
WG356896-02	REF	22-FEB-2011 16:11	89.24	76.876	83.062	90.517
WG356896-03	REF	22-FEB-2011 16:38	90.788	79.095	86.426	92.624
WG356896-04	BLANK	22-FEB-2011 14:29	100.37	85.352	93.725	99.012
WG356896-05	LCS	22-FEB-2011 14:36	99.272	85.134	92.472	100.294
WG356896-06	MS	22-FEB-2011 14:56	96.068	83.2	90.845	98.678
WG356896-07	MSD	22-FEB-2011 15:03	101.174	84.637	94.61	102.251
WG356896-08	MS	22-FEB-2011 16:18	97.585	80.388	89.502	99.347
WG356896-09	DUP	22-FEB-2011 16:45	93.393	81.921	88.595	97.304
WG356974-01	PSPK	22-FEB-2011 15:23	92.227	82.752	88.277	93.548
WG356974-02	SERIAL	22-FEB-2011 15:30	91.794	83.73	88.051	92.73
WG357212-05	ICV	22-FEB-2011 10:03	97.165	91.041	96.045	98.724
WG357212-06	ICB	22-FEB-2011 10:10	96.892	92.565	96.514	98.543
WG357212-07	LLICV	22-FEB-2011 10:17	95.563	92.282	96.406	96.682
WG357212-10	CCV	22-FEB-2011 10:38	94.469	90.232	93.097	94.495
WG357212-11	CCB	22-FEB-2011 10:45	93.134	89.749	93.462	95.501
WG357212-16	CCV	22-FEB-2011 13:49	94.749	83.881	89.328	94.67
WG357212-17	CCB	22-FEB-2011 13:56	96.053	85.41	89.694	95.979
WG357212-18	ICS	22-FEB-2011 10:24	93.355	89.803	91.832	93.68
WG357212-19	ICS	22-FEB-2011 10:31	90.956	88.238	92.024	92.359
WG357212-20	CCV	22-FEB-2011 15:36	89.265	84.187	87.42	90.456
WG357212-21	CCB	22-FEB-2011 15:44	90.937	84.586	86.178	88.846
WG357212-22	CCV	22-FEB-2011 16:52	98.66	85.806	93.128	99.951
WG357212-23	CCB	22-FEB-2011 16:59	101.195	86.449	93.326	101.051
WG357212-24	CCV	22-FEB-2011 18:13	110.608	93.069	103.025	109.745
WG357212-25	CCB	22-FEB-2011 18:21	111.08	93.024	102.128	108.979
WG357212-26	ICS	22-FEB-2011 18:41	101.833	91.555	98.177	102.462
WG357212-27	ICS	22-FEB-2011 18:48	103.358	91.135	101.49	106.505
WG357212-28	CCV	22-FEB-2011 18:55	111.154	93.849	101.619	110.675
WG357212-29	CCB	22-FEB-2011 19:02	108.412	94.049	102.562	110.418
WG357212-30	LLCCV	22-FEB-2011 19:09	107.338	94.774	101.079	105.876

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1924322
Report generated: 02/23/2011 08:25

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11020447 **Date:** 12/07/2010
Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Uranium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1924321
Report generated: 02/23/2011 08:25

2.2.2.3 Raw Data

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\Elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Friday, February 18, 2011 08:32:32

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	620	2060	0.713	
Li	7.016	7.029	1585	2060	0.702	
Co	58.933	58.979	14290	1972	0.714	
Ce	139.905	139.879	33994	2015	0.726	
Tl	204.975	204.976	49689	2255	0.722	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.571
3.000	1.198
4.000	7.738
5.000	25.050
6.000	1.895
7.000	2.481
8.000	40.229
9.000	3.133
58.000	2.179
59.000	1.542
60.000	8.509
139.000	1.975
140.000	0.781
141.000	5.666
204.000	4.786
205.000	1.072
206.000	1.086

Report Date/Time: Friday, February 18, 2011 08:33:44
Page 1

Approved: February 21, 2011

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, February 18, 2011 08:37:50
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\021011\Sample.448
Tuning File: C:\Elandata\Tuning\06302008.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	43894.0	43894.030	411.615	0.9
	Rh	102.9	342002.6	342002.571	2339.787	0.7
	In	114.9	547174.6	547174.628	3599.213	0.7
	Pb	208.0	218302.7	218302.671	2762.656	1.3
	U	238.1	25.8	25.800	3.033	11.8
⌈>	Ba	137.9	278367.8	278367.822	1494.968	0.5
⌊	Ba++	69.0	4230.7	0.015	0.000	1.5
⌈>	Ce	139.9	353145.6	353145.557	2062.007	0.6
⌊	CeO	155.9	9133.0	0.026	0.001	3.6
	Bkgd	220.0	7.6	7.600	2.074	27.3
	Ar2	79.9	4264441.5	4264441.518	34685.936	0.8

Current Optimization File Data

Current Value	Description
0.95	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1834.38	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	7.5	4793.5
Co	59	33	8.0	129402.2
Rh	103	33	9.0	140311.8
Pb	208	33	11.3	172960.6

Sample ID: Sample
Report Date/Time: Friday, February 18, 2011 08:39:58
Page 1

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, February 18, 2011 11:27:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

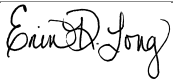
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22425.145					ug/L
|	Be	9	6.000					ug/L
|	Al	27	4167.537					ug/L
|>	Sc	45	273288.895					ug/L
⌈	Ti	49	56.673					ug/L
|	V	51	2349.772					ug/L
|	Cr	52	7916.213					ug/L
|	Cr	53	306.702					ug/L
|	Mn	55	343.009					ug/L
|	Co	59	57.667					ug/L
|	Ni	60	55.334					ug/L
|	Cu	65	116.335					ug/L
|	Zn	66	768.704					ug/L
|>	Ge	72	482859.367					ug/L
|	As	75	-168.358					ug/L
|	Se	77	67.334					ug/L
|	Se	82	-4.142					ug/L
⌊	Rb	85	19.000					mg/L
	Y	89	291598.270					ug/L
	Rh	103	8.333					ug/L
⌈	Mo	98	31.466					ug/L
|	Ag	107	423.013					ug/L
|	Cd	114	0.795					ug/L
|>	In	115	370011.661					ug/L
|	Sn	118	102.667					ug/L
⌊	Sb	123	194.454					ug/L
⌈	Ba	135	13.000					ug/L
|	Ce	140	40.004					ug/L
⌊>	Tb	159	519410.857					ug/L
⌈	Ho	165	10.001					ug/L
|	Tl	203	16.334					ug/L
|	Tl	205	46.671					ug/L
|	Pb	206	407.346					ug/L
|	Pb	207	370.677					ug/L
|	Pb	208	1635.735					ug/L
|	U	238	42.667					ug/L
⌊>	Bi	209	502563.895					ug/L

Sample ID: Blank
Report Date/Time: Friday, February 18, 2011 11:29:12
Page 1

Approved: February 21, 2011



⌈	Na	23	25037.140	mg/L
|	Mg	24	430.053	mg/L
|	K	39	533253.824	mg/L
|	Ca	43	190.021	mg/L
|	Fe	54	46804.977	mg/L
|	Fe	57	6959.787	mg/L
⌊>	Sc-1	45	273288.895	mg/L
	Cl	35	18857.096	mg/L
	Kr	83	54.667	mg/L
	Br	81	8190.696	mg/L
	P	31	12085.376	mg/L
	S	34	202361.393	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, February 18, 2011 11:33:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22324.935	-0.00				ug/L
|	Be	9	4.667	-0.00				ug/L
|	Al	27	4200.887	-0.00				ug/L
⌊>	Sc	45	277977.755	277977.75				ug/L
⌈	Ti	49	70.007	0.00				ug/L
|	V	51	2461.193	0.00				ug/L
|	Cr	52	8154.406	0.00				ug/L
|	Cr	53	246.694	-0.00				ug/L
|	Mn	55	377.011	0.00				ug/L
|	Co	59	57.001	-0.00				ug/L
|	Ni	60	44.334	-0.00				ug/L
|	Cu	65	114.668	-0.00				ug/L
|	Zn	66	739.701	-0.00				ug/L
|>	Ge	72	482213.864	482213.86				ug/L
|	As	75	-112.926	0.00				ug/L
|	Se	77	72.667	0.00				ug/L
|	Se	82	8.618	0.00				ug/L
⌊	Rb	85	20.334	0.00				mg/L
	Y	89	288234.234	-3364.04				ug/L
	Rh	103	7.667	-0.67				ug/L
⌈	Mo	98	18.758	-0.00				ug/L
|	Ag	107	216.671	-0.00				ug/L
|	Cd	114	3.806	0.00				ug/L
|>	In	115	362141.869	362141.87				ug/L
|	Sn	118	99.067	-0.00				ug/L
⌊	Sb	123	125.578	-0.00				ug/L
⌈	Ba	135	14.333	0.00				ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	509184.233	509184.23				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	12.333	-0.00				ug/L
|	Tl	205	20.002	-0.00				ug/L
|	Pb	206	398.679	-0.00				ug/L
|	Pb	207	352.010	-0.00				ug/L
|	Pb	208	1588.065	-0.00				ug/L
|	U	238	30.000	-0.00				ug/L
⌊>	Bi	209	493427.244	493427.24				ug/L

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⌈	Na	23	23553.401	-0.01		mg/L
|	Mg	24	406.716	-0.00		mg/L
|	K	39	535559.868	-0.02		mg/L
|	Ca	43	190.021	-0.00		mg/L
|	Fe	54	47377.647	-0.00		mg/L
|	Fe	57	6819.675	-0.00		mg/L
⌊>	Sc-1	45	277977.755	277977.75		mg/L
	Cl	35	18363.513	-493.58		mg/L
	Kr	83	44.001	-10.67		mg/L
	Br	81	8230.053	39.36		mg/L
	P	31	11399.206	-686.17		mg/L
	S	34	200387.411	-1973.98		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Friday, February 18, 2011 11:35:56

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
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Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, February 18, 2011 11:40:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21205.878	-0.01				ug/L
|	Be	9	140.668	0.00				ug/L
|	Al	27	6785.666	0.01				ug/L
⌊>	Sc	45	290083.335	290083.34				ug/L
⌈	Ti	49	543.402	0.00				ug/L
|	V	51	6653.800	0.01				ug/L
|	Cr	52	11740.005	0.01				ug/L
|	Cr	53	716.764	0.00				ug/L
|	Mn	55	5677.669	0.01				ug/L
|	Co	59	4569.089	0.01				ug/L
|	Ni	60	1040.065	0.00				ug/L
|	Cu	65	1107.406	0.00				ug/L
|	Zn	66	1642.485	0.00				ug/L
|>	Ge	72	486500.149	486500.15				ug/L
|	As	75	235.617	0.00				ug/L
|	Se	77	87.334	0.00				ug/L
|	Se	82	34.290	0.00				ug/L
⌊	Rb	85	41.667	0.00				mg/L
	Y	89	298464.977	6866.71				ug/L
	Rh	103	8.000	-0.33				ug/L
⌈	Mo	98	1944.967	0.01				ug/L
|	Ag	107	2147.585	0.00				ug/L
|	Cd	114	459.967	0.00				ug/L
|>	In	115	371153.721	371153.72				ug/L
|	Sn	118	1752.154	0.00				ug/L
⌊	Sb	123	1666.233	0.00				ug/L
⌈	Ba	135	705.699	0.00				ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	523322.048	523322.05				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	3120.185	0.01				ug/L
|	Tl	205	7410.167	0.01				ug/L
|	Pb	206	2982.141	0.01				ug/L
|	Pb	207	2820.426	0.00				ug/L
|	Pb	208	12404.478	0.02				ug/L
|	U	238	20121.093	0.04				ug/L
⌊>	Bi	209	510566.658	510566.66				ug/L

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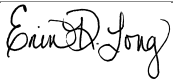

⌈	Na	23	264714.324	0.82		mg/L
|	Mg	24	156463.650	0.54		mg/L
|	K	39	940092.116	1.29		mg/L
|	Ca	43	1026.822	0.00		mg/L
|	Fe	54	72866.271	0.08		mg/L
|	Fe	57	18425.478	0.04		mg/L
⌊>	Sc-1	45	290083.335	290083.34		mg/L
	Cl	35	19569.132	712.04		mg/L
	Kr	83	43.334	-11.33		mg/L
	Br	81	8559.662	368.97		mg/L
	P	31	11855.727	-229.65		mg/L
	S	34	211031.158	8669.77		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
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Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, February 18, 2011 11:47:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20704.796	-0.01				ug/L
|	Be	9	14295.547	0.05	50.0000	1.932	3.864	ug/L
|	Al	27	300962.604	1.06	50.0000	1.315	2.629	ug/L
⌊>	Sc	45	279691.982	279691.98				ug/L
⌈	Ti	49	62212.469	0.13	100.0000	1.019	1.019	ug/L
|	V	51	502299.993	1.05	50.0000	0.519	1.039	ug/L
|	Cr	52	428404.951	0.88	50.0000	1.345	2.691	ug/L
|	Cr	53	49333.109	0.10	50.0000	2.499	4.997	ug/L
|	Mn	55	640293.562	1.34	50.0000	0.805	1.609	ug/L
|	Co	59	527895.079	1.11	50.0000	0.333	0.666	ug/L
|	Ni	60	112651.423	0.24	50.0000	0.673	1.346	ug/L
|	Cu	65	117035.101	0.25	50.0000	1.645	3.291	ug/L
|	Zn	66	68003.191	0.14	50.0000	1.628	3.256	ug/L
|>	Ge	72	476624.922	476624.92				ug/L
|	As	75	53016.126	0.11	50.0000	0.507	1.013	ug/L
|	Se	77	3858.745	0.01	50.0000	1.789	3.578	ug/L
|	Se	82	4769.466	0.01	50.0000	0.967	1.935	ug/L
⌊	Rb	85	2026.226	0.00				mg/L
	Y	89	288775.666	-2822.60				ug/L
	Rh	103	27.667	19.33				ug/L
⌈	Mo	98	239356.770	0.67	100.0000	3.675	3.675	ug/L
|	Ag	107	241541.180	0.68	50.0000	2.098	4.196	ug/L
|	Cd	114	54493.504	0.15	50.0000	1.841	3.682	ug/L
|>	In	115	355581.608	355581.61				ug/L
|	Sn	118	199077.522	0.56	50.0000	1.870	3.739	ug/L
⌊	Sb	123	188884.012	0.53	50.0000	1.281	2.562	ug/L
⌈	Ba	135	81877.321	0.16	50.0000	1.975	3.949	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	498269.106	498269.11				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	380867.513	0.76	50.0000	0.182	0.364	ug/L
|	Tl	205	949846.245	1.90	50.0000	1.072	2.145	ug/L
|	Pb	206	305841.681	0.61	50.0000	0.736	1.473	ug/L
|	Pb	207	281945.282	0.56	50.0000	0.735	1.471	ug/L
|	Pb	208	1270178.373	2.54	50.0000	0.151	0.302	ug/L
|	U	238	2337906.085	4.69	50.0000	1.636	3.272	ug/L
⌊>	Bi	209	499118.712	499118.71				ug/L

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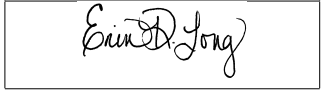

⌈	Na	23	28666224.949	102.41	5.0000	0.042	0.842	mg/L
|	Mg	24	17825543.106	63.76	5.0000	0.151	3.021	mg/L
|	K	39	43656587.063	154.13	5.0000	0.026	0.518	mg/L
|	Ca	43	97667.915	0.35	5.0000	0.143	2.869	mg/L
|	Fe	54	3181570.472	11.21	5.0000	0.138	2.754	mg/L
|	Fe	57	1318028.262	4.69	5.0000	0.099	1.972	mg/L
⌊>	Sc-1	45	279691.982	279691.98				mg/L
	Cl	35	19787.559	930.46				mg/L
	Kr	83	47.001	-7.67				mg/L
	Br	81	8094.612	-96.08				mg/L
	P	31	12384.384	299.01				mg/L
	S	34	210482.286	8120.89				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, February 18, 2011 11:54:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20354.409	-0.01				ug/L
|	Be	9	28515.316	0.11	101.3756	7.705	7.600	ug/L
|	Al	27	581187.051	2.12	100.0228	3.069	3.068	ug/L
⌊>	Sc	45	272076.790	272076.79				ug/L
⌈	Ti	49	124219.590	0.27	202.1967	4.507	2.229	ug/L
|	V	51	980740.770	2.10	100.0970	0.739	0.738	ug/L
|	Cr	52	829871.967	1.77	100.0465	1.559	1.558	ug/L
|	Cr	53	95550.588	0.20	99.7161	1.354	1.358	ug/L
|	Mn	55	1262993.671	2.71	100.4963	0.572	0.569	ug/L
|	Co	59	1033422.282	2.22	100.1152	1.359	1.357	ug/L
|	Ni	60	219278.590	0.47	99.8398	2.862	2.867	ug/L
|	Cu	65	225120.235	0.48	99.2628	1.712	1.725	ug/L
|	Zn	66	131894.483	0.28	100.0292	0.296	0.296	ug/L
|>	Ge	72	465516.894	465516.89				ug/L
|	As	75	103711.849	0.22	99.9768	0.618	0.618	ug/L
|	Se	77	7451.442	0.02	99.7724	0.903	0.905	ug/L
|	Se	82	9356.099	0.02	100.1815	0.432	0.431	ug/L
⌊	Rb	85	3988.836	0.01				mg/L
	Y	89	287218.598	-4379.67				ug/L
	Rh	103	40.667	32.33				ug/L
⌈	Mo	98	475623.230	1.31	197.3469	2.446	1.239	ug/L
|	Ag	107	463914.622	1.28	96.9937	1.153	1.189	ug/L
|	Cd	114	110116.264	0.30	99.5428	2.528	2.540	ug/L
|>	In	115	362576.988	362576.99				ug/L
|	Sn	118	393757.473	1.09	98.4598	1.310	1.330	ug/L
⌊	Sb	123	375628.159	1.04	98.7382	0.666	0.674	ug/L
⌈	Ba	135	161440.254	0.33	99.4578	0.841	0.846	ug/L
|	Ce	140	80.008	0.00				ug/L
⌊>	Tb	159	496278.826	496278.83				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	738969.524	1.50	99.0447	4.492	4.535	ug/L
|	Tl	205	1876692.339	3.80	99.9757	7.256	7.257	ug/L
|	Pb	206	600148.848	1.22	99.6428	5.123	5.141	ug/L
|	Pb	207	556992.033	1.13	99.9461	1.501	1.502	ug/L
|	Pb	208	2492217.301	5.04	99.6071	2.176	2.185	ug/L
|	U	238	4754277.426	9.63	101.3533	2.824	2.787	ug/L
⌊>	Bi	209	494085.305	494085.30				ug/L

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⌈	Na	23	56335559.935	207.30	10.0599	0.441	4.383	mg/L
|	Mg	24	35070080.954	129.10	10.0625	0.400	3.978	mg/L
|	K	39	84210561.237	307.97	9.9964	0.332	3.320	mg/L
|	Ca	43	181208.741	0.67	9.7763	0.427	4.370	mg/L
|	Fe	54	6144867.614	22.48	10.0124	0.769	7.685	mg/L
|	Fe	57	2498097.697	9.18	9.8924	0.519	5.250	mg/L
⌊>	Sc-1	45	272076.790	272076.79				mg/L
	Cl	35	19591.844	734.75				mg/L
	Kr	83	47.667	-7.00				mg/L
	Br	81	7713.643	-477.05				mg/L
	P	31	12351.048	265.67				mg/L
	S	34	204410.530	2049.14				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, February 18, 2011 12:00:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19752.896	-0.01				ug/L
|	Be	9	14246.824	0.05	49.5549	2.358	4.757	ug/L
|	Al	27	294406.053	1.05	49.3438	2.445	4.955	ug/L
⌊>	Sc	45	277329.613	277329.61				ug/L
⌈	Ti	49	63426.881	0.13	102.0764	2.012	1.971	ug/L
|	V	51	502757.936	1.06	50.6177	0.581	1.147	ug/L
|	Cr	52	431949.999	0.90	51.0263	1.077	2.112	ug/L
|	Cr	53	50016.525	0.11	51.4641	1.998	3.882	ug/L
|	Mn	55	640854.494	1.36	50.4045	1.093	2.169	ug/L
|	Co	59	527268.714	1.12	50.5011	0.775	1.534	ug/L
|	Ni	60	111208.497	0.24	50.0492	1.020	2.039	ug/L
|	Cu	65	113713.140	0.24	49.5413	0.939	1.896	ug/L
|	Zn	66	67423.557	0.14	50.1636	0.255	0.507	ug/L
| >	Ge	72	470799.986	470799.99				ug/L
|	As	75	53563.836	0.11	51.1467	0.416	0.813	ug/L
|	Se	77	3972.789	0.01	52.2587	1.488	2.847	ug/L
|	Se	82	4909.872	0.01	52.0061	0.522	1.003	ug/L
⌊	Rb	85	2031.893	0.00				mg/L
	Y	89	284676.798	-6921.47				ug/L
	Rh	103	24.667	16.33				ug/L
⌈	Mo	98	242780.789	0.67	100.9535	1.887	1.869	ug/L
|	Ag	107	236131.065	0.65	49.4453	0.736	1.488	ug/L
|	Cd	114	56405.021	0.16	51.1039	1.106	2.164	ug/L
| >	In	115	361864.087	361864.09				ug/L
|	Sn	118	199976.906	0.55	50.0907	0.555	1.107	ug/L
⌊	Sb	123	187705.981	0.52	49.4380	1.475	2.983	ug/L
⌈	Ba	135	83435.136	0.17	51.0822	1.275	2.496	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	499426.864	499426.86				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	379806.793	0.75	49.4271	2.263	4.578	ug/L
|	Tl	205	927991.258	1.83	47.9732	1.298	2.705	ug/L
|	Pb	206	318000.088	0.62	51.2158	1.671	3.263	ug/L
|	Pb	207	277939.496	0.55	48.3831	0.417	0.861	ug/L
|	Pb	208	1308104.368	2.57	50.7343	0.975	1.923	ug/L
|	U	238	2323171.982	4.57	48.0885	1.179	2.451	ug/L
⌊>	Bi	209	508675.830	508675.83				ug/L

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Na	23	28948902.646	104.37	5.0651	0.257	5.069	mg/L
Mg	24	17813470.269	64.30	5.0110	0.271	5.407	mg/L
K	39	44183217.057	157.51	5.1117	0.192	3.765	mg/L
Ca	43	94779.944	0.34	5.0070	0.224	4.469	mg/L
Fe	54	3225066.964	11.48	5.1141	0.387	7.568	mg/L
Fe	57	1330030.006	4.77	5.1476	0.209	4.058	mg/L
> Sc-1	45	277329.613	277329.61				mg/L
Cl	35	19716.085	858.99				mg/L
Kr	83	46.667	-8.00				mg/L
Br	81	7827.732	-362.96				mg/L
P	31	12683.381	598.01				mg/L
S	34	214099.058	11737.66				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	99.110				
Al	27	98.688				
> Sc	45					
Ti	49	102.076				
V	51	101.235				
Cr	52	102.053				
Cr	53					
Mn	55	100.809				
Co	59	101.002				
Ni	60	100.098				
Cu	65	99.083				
Zn	66	100.327				
> Ge	72		97.503			
As	75	102.293				
Se	77					
Se	82	104.012				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.891				
Cd	114	102.208				
> In	115		97.798			
Sn	118					
Sb	123	98.876				
Ba	135	102.164				
Ce	140					
> Tb	159		96.153			
Ho	165					
Tl	203	98.854				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.469				
U	238	96.177				
> Bi	209		101.216			
Na	23	101.302				

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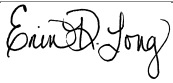

	Mg	24	100.220
	K	39	102.233
	Ca	43	100.140
	Fe	54	102.282
	Fe	57	102.952
>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
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Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, February 18, 2011 12:08:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20988.805	-0.00				ug/L
|	Be	9	9.333	0.00	-0.0349	0.016	46.388	ug/L
|	Al	27	3800.730	-0.00	-0.0469	0.074	158.086	ug/L
|>	Sc	45	271589.265	271589.26				ug/L
⌈	Ti	49	70.007	0.00	0.0650	0.014	21.835	ug/L
|	V	51	2528.525	0.00	0.0026	0.011	414.219	ug/L
|	Cr	52	8290.185	0.00	0.0232	0.036	155.978	ug/L
|	Cr	53	236.693	-0.00	-0.0749	0.006	7.939	ug/L
|	Mn	55	388.345	0.00	-0.0021	0.002	81.603	ug/L
|	Co	59	61.001	0.00	-0.0179	0.001	6.307	ug/L
|	Ni	60	44.001	-0.00	-0.0337	0.004	12.365	ug/L
|	Cu	65	119.335	0.00	-0.0158	0.002	15.553	ug/L
|	Zn	66	752.369	-0.00	-0.2370	0.011	4.713	ug/L
|>	Ge	72	474385.677	474385.68				ug/L
|	As	75	-138.427	0.00	0.0517	0.046	89.325	ug/L
|	Se	77	68.000	0.00	0.1696	0.263	155.159	ug/L
|	Se	82	4.965	0.00	0.0996	0.070	70.677	ug/L
⌊	Rb	85	22.334	0.00				mg/L
	Y	89	292458.494	860.22				ug/L
	Rh	103	9.667	1.33				ug/L
⌈	Mo	98	122.052	0.00	0.0621	0.005	8.080	ug/L
|	Ag	107	67.001	-0.00	-0.0248	0.003	10.669	ug/L
|	Cd	114	-1.091	-0.00	-0.0072	0.004	61.471	ug/L
|>	In	115	364418.937	364418.94				ug/L
|	Sn	118	299.471	0.00	0.0464	0.007	16.024	ug/L
⌊	Sb	123	457.801	0.00	0.0918	0.011	11.701	ug/L
⌈	Ba	135	17.000	0.00	-0.0019	0.003	169.007	ug/L
|	Ce	140	26.669	-0.00				ug/L
|>	Tb	159	500179.392	500179.39				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	30.667	0.00	-0.0002	0.001	364.035	ug/L
|	Tl	205	63.340	0.00	0.0220	0.001	5.590	ug/L
|	Pb	206	399.345	-0.00	-0.0134	0.004	29.135	ug/L
|	Pb	207	360.677	-0.00	-0.0260	0.004	14.907	ug/L
|	Pb	208	1615.401	-0.00	-0.0161	0.000	2.759	ug/L
|	U	238	122.335	0.00	-0.0123	0.000	1.346	ug/L
|>	Bi	209	499527.192	499527.19				ug/L

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⌈	Na	23	25134.074	0.00	0.0002	0.000	43.965	mg/L
|	Mg	24	453.389	0.00	-0.0019	0.000	0.026	mg/L
|	K	39	551144.954	0.08	0.0006	0.001	100.296	mg/L
|	Ca	43	223.358	0.00	0.0002	0.004	2604.320	mg/L
|	Fe	54	44928.961	-0.01	0.0017	0.001	44.769	mg/L
|	Fe	57	7033.176	0.00	-0.0006	0.001	96.201	mg/L
⌊>	Sc-1	45	271589.265	271589.26				mg/L
	Cl	35	18426.295	-430.80				mg/L
	Kr	83	42.334	-12.33				mg/L
	Br	81	7982.520	-208.18				mg/L
	P	31	10243.282	-1842.09				mg/L
	S	34	201616.149	-745.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.245			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.489			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.297			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.396			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Friday, February 18, 2011 12:10:22
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Friday, February 18, 2011 12:10:22
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Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, February 18, 2011 12:14:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18233.353	-0.02				ug/L
|	Be	9	5.333	-0.00	-0.0506	0.017	32.671	ug/L
|	Al	27	3233.861	-0.00	-0.1805	0.059	32.446	ug/L
|>	Sc	45	290323.286	290323.29				ug/L
⌈	Ti	49	53.339	-0.00	0.0384	0.024	62.579	ug/L
|	V	51	6348.513	0.01	0.3856	0.022	5.585	ug/L
|	Cr	52	14676.242	0.01	0.7842	0.017	2.192	ug/L
|	Cr	53	913.466	0.00	0.6194	0.042	6.790	ug/L
|	Mn	55	6898.448	0.01	0.5060	0.007	1.349	ug/L
|	Co	59	4381.670	0.01	0.3926	0.006	1.481	ug/L
|	Ni	60	3693.719	0.01	1.5966	0.013	0.844	ug/L
|	Cu	65	2036.895	0.00	0.8135	0.026	3.163	ug/L
|	Zn	66	9092.556	0.02	6.0138	0.066	1.089	ug/L
|>	Ge	72	474805.436	474805.44				ug/L
|	As	75	270.349	0.00	0.4380	0.088	20.193	ug/L
|	Se	77	98.000	0.00	0.5675	0.246	43.419	ug/L
|	Se	82	44.549	0.00	0.5153	0.210	40.725	ug/L
⌊	Rb	85	20.667	0.00				mg/L
	Y	89	297822.705	6224.43				ug/L
	Rh	103	9.333	1.00				ug/L
⌈	Mo	98	78.681	0.00	0.0440	0.002	4.259	ug/L
|	Ag	107	1968.880	0.00	0.3691	0.023	6.313	ug/L
|	Cd	114	238.916	0.00	0.2077	0.008	3.712	ug/L
|>	In	115	366357.975	366357.98				ug/L
|	Sn	118	198.402	0.00	0.0210	0.003	15.716	ug/L
⌊	Sb	123	1694.321	0.00	0.4131	0.020	4.929	ug/L
⌈	Ba	135	1258.092	0.00	0.7583	0.024	3.134	ug/L
|	Ce	140	16.668	-0.00				ug/L
|>	Tb	159	499241.920	499241.92				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	647.361	0.00	0.0800	0.007	9.226	ug/L
|	Tl	205	1533.606	0.00	0.0980	0.012	12.663	ug/L
|	Pb	206	2843.766	0.00	0.3795	0.017	4.392	ug/L
|	Pb	207	2722.065	0.00	0.3849	0.029	7.470	ug/L
|	Pb	208	12105.702	0.02	0.3901	0.010	2.630	ug/L
|	U	238	19723.301	0.04	0.3932	0.008	1.959	ug/L
|>	Bi	209	508957.539	508957.54				ug/L

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Na	23	18689.322	-0.03	-0.0012	0.000	13.088	mg/L
Mg	24	473.393	0.00	-0.0019	0.000	2.153	mg/L
K	39	544191.553	-0.08	-0.0044	0.002	36.246	mg/L
Ca	43	240.027	0.00	0.0002	0.001	557.631	mg/L
Fe	54	44169.480	-0.02	-0.0042	0.003	66.435	mg/L
Fe	57	6799.661	-0.00	-0.0033	0.002	58.830	mg/L
> Sc-1	45	290323.286	290323.29				mg/L
Cl	35	18461.026	-396.07				mg/L
Kr	83	52.001	-2.67				mg/L
Br	81	7991.197	-199.50				mg/L
P	31	10612.344	-1473.03				mg/L
S	34	199901.205	-2460.19				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	96.391				
Cr	52	98.022				
Cr	53					
Mn	55	101.190				
Co	59	98.151				
Ni	60	99.789				
Cu	65	101.688				
Zn	66	96.221				
> Ge	72		98.332			
As	75	109.510				
Se	77					
Se	82	128.828				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	92.264				
Cd	114	103.827				
> In	115		99.013			
Sn	118					
Sb	123	103.283				
Ba	135	101.107				
Ce	140					
> Tb	159		96.117			
Ho	165					
Tl	203	99.992				
Tl	205					
Pb	206					
Pb	207					
Pb	208	97.531				
U	238	98.309				
> Bi	209		101.272			
Na	23					

Sample ID: QC Std 3
Report Date/Time: Friday, February 18, 2011 12:17:12

Approved: February 21, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 3
Report Date/Time: Friday, February 18, 2011 12:17:12
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Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, February 18, 2011 12:21:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20303.986	-0.00				ug/L
|	Be	9	10.667	0.00	-0.0285	0.015	52.730	ug/L
|	Al	27	25157417.320	96.91	4564.1164	160.448	3.515	ug/L
⌊>	Sc	45	259644.684	259644.68				ug/L
⌈	Ti	49	59663.411	0.13	98.1447	1.148	1.170	ug/L
|	V	51	1919.990	-0.00	-0.0527	0.024	45.987	ug/L
|	Cr	52	8285.181	0.00	0.0520	0.024	45.603	ug/L
|	Cr	53	1553.609	0.00	1.3256	0.031	2.338	ug/L
|	Mn	55	3293.242	0.01	0.2325	0.005	1.955	ug/L
|	Co	59	2024.225	0.00	0.1746	0.004	2.280	ug/L
|	Ni	60	1293.763	0.00	0.5422	0.030	5.464	ug/L
|	Cu	65	888.715	0.00	0.3289	0.025	7.543	ug/L
|	Zn	66	1325.768	0.00	0.2228	0.042	18.745	ug/L
| >	Ge	72	460611.070	460611.07				ug/L
|	As	75	-88.029	0.00	0.0977	0.065	66.454	ug/L
|	Se	77	129.334	0.00	1.0340	0.229	22.183	ug/L
|	Se	82	5.902	0.00	0.1127	0.265	235.280	ug/L
⌊	Rb	85	1813.183	0.00				mg/L
	Y	89	269465.615	-22132.66				ug/L
	Rh	103	12.000	3.67				ug/L
⌈	Mo	98	230861.759	0.65	98.1594	1.229	1.253	ug/L
|	Ag	107	102.335	-0.00	-0.0168	0.001	5.774	ug/L
|	Cd	114	110.138	0.00	0.0959	0.025	26.601	ug/L
| >	In	115	353832.063	353832.06				ug/L
|	Sn	118	213.869	0.00	0.0267	0.001	5.253	ug/L
⌊	Sb	123	256.374	0.00	0.0411	0.007	16.560	ug/L
⌈	Ba	135	59.001	0.00	0.0258	0.007	25.990	ug/L
|	Ce	140	183.353	0.00				ug/L
⌊>	Tb	159	472949.730	472949.73				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	64.334	0.00	0.0048	0.001	23.954	ug/L
|	Tl	205	103.344	0.00	0.0245	0.003	12.002	ug/L
|	Pb	206	468.016	0.00	0.0027	0.001	51.337	ug/L
|	Pb	207	409.679	0.00	-0.0126	0.006	44.348	ug/L
|	Pb	208	1846.418	0.00	-0.0023	0.001	53.711	ug/L
|	U	238	39.667	-0.00	-0.0140	0.000	0.829	ug/L
⌊>	Bi	209	469491.650	469491.65				ug/L

Approved: February 21, 2011

Na	23	67645675.019	260.51	12.6423	0.441	3.490	mg/L	
Mg	24	16957807.981	65.31	5.0898	0.063	1.239	mg/L	
K	39	42378123.461	161.28	5.2341	0.048	0.912	mg/L	
Ca	43	263595.800	1.01	14.8831	0.215	1.448	mg/L	
Fe	54	7508691.604	28.76	12.8050	0.422	3.293	mg/L	
Fe	57	3019859.913	11.60	12.5116	0.126	1.008	mg/L	
> Sc-1	45	259644.684	259644.68				mg/L	
Cl	35	1979141.733	1960284.64				mg/L	
Kr	83	49.667	-5.00				mg/L	
Br	81	7484.135	-706.56				mg/L	
P	31	1603891.154	1591805.78				mg/L	
S	34	358604.470	156243.08				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.392			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		95.627			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		91.055			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		93.419			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Friday, February 18, 2011 12:24:00

Approved: February 21, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, February 18, 2011 12:24:00
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Approved: February 21, 2011

Data not used - solution was made incorrectly.

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, February 18, 2011 12:28:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19251.905	-0.01				ug/L
|	Be	9	2887.084	0.01	10.2703	0.861	8.387	ug/L
|	Al	27	24643509.018	91.36	4302.6886	287.157	6.674	ug/L
⌊>	Sc	45	270136.544	270136.54				ug/L
⌈	Ti	49	59043.047	0.13	97.3193	2.034	2.090	ug/L
|	V	51	96770.256	0.21	9.7761	0.166	1.697	ug/L
|	Cr	52	87758.296	0.17	9.8513	0.127	1.288	ug/L
|	Cr	53	11374.271	0.02	11.7414	0.275	2.346	ug/L
|	Mn	55	127576.076	0.28	10.2510	0.165	1.607	ug/L
|	Co	59	102558.456	0.22	10.0414	0.269	2.676	ug/L
|	Ni	60	22086.601	0.05	10.1379	0.352	3.474	ug/L
|	Cu	65	22600.741	0.05	10.0310	0.195	1.944	ug/L
|	Zn	66	13993.257	0.03	10.0322	0.110	1.096	ug/L
⌊>	Ge	72	459680.502	459680.50				ug/L
|	As	75	10248.351	0.02	10.1695	0.038	0.377	ug/L
|	Se	77	872.705	0.00	11.1934	0.613	5.475	ug/L
|	Se	82	931.246	0.00	10.1422	0.431	4.250	ug/L
⌊	Rb	85	1784.844	0.00				mg/L
	Y	89	267401.816	-24196.45				ug/L
	Rh	103	16.000	7.67				ug/L
⌈	Mo	98	227638.563	0.66	99.1097	0.922	0.931	ug/L
|	Ag	107	80744.533	0.23	17.6821	0.384	2.172	ug/L
|	Cd	114	10966.330	0.03	10.3979	0.449	4.319	ug/L
⌊>	In	115	345544.156	345544.16				ug/L
|	Sn	118	175.202	0.00	0.0178	0.002	13.284	ug/L
⌊	Sb	123	36183.457	0.10	9.9550	0.170	1.712	ug/L
⌈	Ba	135	15182.336	0.03	9.9535	0.218	2.191	ug/L
|	Ce	140	180.020	0.00				ug/L
⌊>	Tb	159	465871.244	465871.24				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	69922.694	0.15	10.0040	0.048	0.481	ug/L
|	Tl	205	176620.549	0.38	10.0599	0.221	2.200	ug/L
|	Pb	206	60279.751	0.13	10.6168	0.125	1.178	ug/L
|	Pb	207	52643.415	0.11	10.0155	0.207	2.068	ug/L
|	Pb	208	244874.598	0.53	10.3872	0.131	1.258	ug/L
|	U	238	442370.010	0.96	10.0625	0.159	1.580	ug/L
⌊>	Bi	209	462231.840	462231.84				ug/L

Sample ID: QC Std 5
Report Date/Time: Friday, February 18, 2011 12:30:48
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Data not used - solution was made incorrectly.

Na	23	68964336.402	255.32	12.3905	0.400	3.227	mg/L	
Mg	24	17268683.522	64.03	4.9898	0.360	7.224	mg/L	
K	39	42256859.975	154.59	5.0168	0.157	3.122	mg/L	
Ca	43	262835.555	0.97	14.2728	0.403	2.824	mg/L	
Fe	54	7662937.419	28.22	12.5666	0.484	3.854	mg/L	
Fe	57	3107656.135	11.49	12.3848	0.397	3.202	mg/L	
> Sc-1	45	270136.544	270136.54				mg/L	
Cl	35	1970757.878	1951900.78				mg/L	
Kr	83	55.001	0.33				mg/L	
Br	81	7290.657	-900.04				mg/L	
P	31	1625764.450	1613679.07				mg/L	
S	34	351391.532	149030.14				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	9.776				
Cr	52	9.851				
Cr	53					
Mn	55	10.251				
Co	59	10.041				
Ni	60	10.138				
Cu	65	10.031				
Zn	66	10.032				
> Ge	72		95.200			
As	75	10.170				
Se	77					
Se	82	10.142				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	17.682				
Cd	114	10.398				
> In	115		93.387			
Sn	118					
Sb	123	9.955				
Ba	135	9.953				
Ce	140					
> Tb	159		89.692			
Ho	165					
Tl	203	10.004				
Tl	205					
Pb	206					
Pb	207					
Pb	208	10.387				
U	238	10.062				
> Bi	209		91.975			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Friday, February 18, 2011 12:30:48

Approved: February 21, 2011

Erin D. Long

Data not used - solution was made incorrectly.

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	V	51	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Cr	52	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Mn	55	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Co	59	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Ni	60	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Cu	65	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Zn	66	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	As	75	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Se	82	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Ag	107	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Cd	114	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Sb	123	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Ba	135	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Tl	203	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	Pb	208	ICSAB IS OUT OF LIMITS (+/-20%)
QC Std 5	U	238	ICSAB IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 5
Report Date/Time: Friday, February 18, 2011 12:30:48
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Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, February 18, 2011 12:40:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19352.108	-0.01				ug/L
|	Be	9	28069.351	0.11	103.0674	4.022	3.903	ug/L
|	Al	27	25928279.772	98.64	4645.6563	209.884	4.518	ug/L
|>	Sc	45	262912.031	262912.03				ug/L
⌈	Ti	49	58868.671	0.13	97.6297	0.936	0.959	ug/L
|	V	51	956895.852	2.09	99.5220	1.839	1.848	ug/L
|	Cr	52	815493.269	1.77	100.1928	1.886	1.882	ug/L
|	Cr	53	96102.514	0.21	102.2099	0.952	0.931	ug/L
|	Mn	55	1253319.715	2.74	101.6357	1.442	1.419	ug/L
|	Co	59	1005668.191	2.20	99.2998	3.154	3.177	ug/L
|	Ni	60	213334.737	0.47	98.9990	1.091	1.102	ug/L
|	Cu	65	215914.265	0.47	97.0149	1.508	1.555	ug/L
|	Zn	66	127032.712	0.28	98.1639	0.565	0.576	ug/L
|>	Ge	72	456829.766	456829.77				ug/L
|	As	75	102613.010	0.22	100.7985	1.424	1.413	ug/L
|	Se	77	7488.803	0.02	102.2092	1.310	1.281	ug/L
|	Se	82	9080.469	0.02	99.0818	0.866	0.875	ug/L
⌊	Rb	85	1797.513	0.00				mg/L
	Y	89	268747.071	-22851.20				ug/L
	Rh	103	47.334	39.00				ug/L
⌈	Mo	98	223876.189	0.65	97.7815	2.500	2.557	ug/L
|	Ag	107	406458.601	1.18	89.4364	1.694	1.894	ug/L
|	Cd	114	107481.056	0.31	102.2785	2.158	2.110	ug/L
|>	In	115	344565.321	344565.32				ug/L
|	Sn	118	408.542	0.00	0.0794	0.006	7.290	ug/L
⌊	Sb	123	361560.672	1.05	100.0348	2.542	2.542	ug/L
⌈	Ba	135	154995.232	0.34	103.3157	1.727	1.671	ug/L
|	Ce	140	230.026	0.00				ug/L
|>	Tb	159	458655.518	458655.52				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	690587.592	1.51	99.7860	2.334	2.339	ug/L
|	Tl	205	1739148.593	3.80	99.7982	3.414	3.421	ug/L
|	Pb	206	596531.319	1.30	106.7544	1.068	1.000	ug/L
|	Pb	207	525176.293	1.15	101.6472	0.529	0.520	ug/L
|	Pb	208	2402785.887	5.24	103.5771	0.472	0.456	ug/L
|	U	238	4344400.676	9.49	99.8934	2.183	2.186	ug/L
|>	Bi	209	457958.880	457958.88				ug/L

Sample ID: QC Std 5
Report Date/Time: Friday, February 18, 2011 12:42:20
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Na	23	69997312.880	266.18	12.9172	0.178	1.381	mg/L	
Mg	24	17416575.769	66.26	5.1634	0.152	2.953	mg/L	
K	39	42085358.760	158.12	5.1314	0.028	0.554	mg/L	
Ca	43	256051.230	0.97	14.2782	0.494	3.458	mg/L	
Fe	54	7695100.753	29.11	12.9615	0.371	2.866	mg/L	
Fe	57	3052966.009	11.59	12.4938	0.270	2.164	mg/L	
Sc-1	45	262912.031	262912.03				mg/L	
Cl	35	1938840.400	1919983.30				mg/L	
Kr	83	52.667	-2.00				mg/L	
Br	81	7428.765	-761.93				mg/L	
P	31	1637084.182	1624998.81				mg/L	
S	34	341687.735	139326.34				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	99.522				
Cr	52	100.193				
Cr	53					
Mn	55	101.636				
Co	59	99.300				
Ni	60	98.999				
Cu	65	97.015				
Zn	66	98.164				
Ge	72		94.609			
As	75	100.799				
Se	77					
Se	82	99.082				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	89.436				
Cd	114	102.278				
In	115		93.123			
Sn	118					
Sb	123	100.035				
Ba	135	103.316				
Ce	140					
Tb	159		88.303			
Ho	165					
Tl	203	99.786				
Tl	205					
Pb	206					
Pb	207					
Pb	208	103.577				
U	238	99.893				
Bi	209		91.125			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Friday, February 18, 2011 12:42:20

Approved: February 21, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, February 18, 2011 12:42:20
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Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 18, 2011 12:53:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21122.611	-0.00				ug/L
|	Be	9	14418.394	0.05	51.9005	2.020	3.892	ug/L
|	Al	27	299623.110	1.10	51.9705	1.361	2.619	ug/L
⌊>	Sc	45	267942.465	267942.46				ug/L
⌈	Ti	49	62638.518	0.13	102.2284	4.048	3.959	ug/L
|	V	51	490378.524	1.05	50.0532	1.606	3.209	ug/L
|	Cr	52	413766.323	0.87	49.5138	0.374	0.756	ug/L
|	Cr	53	48230.947	0.10	50.3080	2.392	4.754	ug/L
|	Mn	55	612480.142	1.32	48.8286	0.404	0.828	ug/L
|	Co	59	520153.733	1.12	50.5007	0.738	1.461	ug/L
|	Ni	60	109696.246	0.24	50.0395	0.631	1.260	ug/L
|	Cu	65	113066.116	0.24	49.9327	0.551	1.104	ug/L
|	Zn	66	65487.743	0.14	49.3779	0.498	1.009	ug/L
⌊>	Ge	72	464518.578	464518.58				ug/L
|	As	75	52396.979	0.11	50.7189	0.649	1.280	ug/L
|	Se	77	3795.387	0.01	50.5944	1.361	2.690	ug/L
|	Se	82	4782.825	0.01	51.3487	0.268	0.522	ug/L
⌊	Rb	85	1948.876	0.00				mg/L
	Y	89	279534.172	-12064.10				ug/L
	Rh	103	24.334	16.00				ug/L
⌈	Mo	98	232713.524	0.67	100.8850	3.171	3.143	ug/L
|	Ag	107	227883.401	0.66	49.7635	1.907	3.832	ug/L
|	Cd	114	52164.987	0.15	49.2316	1.757	3.569	ug/L
⌊>	In	115	347165.730	347165.73				ug/L
|	Sn	118	188980.106	0.54	49.3401	0.490	0.993	ug/L
⌊	Sb	123	183573.137	0.53	50.3910	0.938	1.861	ug/L
⌈	Ba	135	77956.795	0.16	50.2399	0.878	1.747	ug/L
|	Ce	140	70.007	0.00				ug/L
⌊>	Tb	159	474381.986	474381.99				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	349135.887	0.74	48.7667	1.385	2.839	ug/L
|	Tl	205	872486.524	1.84	48.4267	0.782	1.615	ug/L
|	Pb	206	286955.010	0.61	49.6118	1.649	3.325	ug/L
|	Pb	207	266321.816	0.56	49.7914	1.014	2.036	ug/L
|	Pb	208	1205564.347	2.54	50.2111	0.699	1.392	ug/L
|	U	238	2237946.576	4.73	49.7456	0.928	1.866	ug/L
⌊>	Bi	209	473575.001	473575.00				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 12:56:06
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Approved: February 21, 2011

Na	23	28254237.242	105.38	5.1141	0.159	3.119	mg/L	
Mg	24	17882889.079	66.75	5.2015	0.130	2.498	mg/L	
K	39	43187124.141	159.21	5.1670	0.195	3.780	mg/L	
Ca	43	93467.433	0.35	5.1062	0.040	0.777	mg/L	
Fe	54	3098834.936	11.40	5.0769	0.078	1.545	mg/L	
Fe	57	1282503.188	4.76	5.1341	0.295	5.737	mg/L	
> Sc-1	45	267942.465	267942.46				mg/L	
Cl	35	19531.055	673.96				mg/L	
Kr	83	44.667	-10.00				mg/L	
Br	81	7594.890	-595.81				mg/L	
P	31	10163.193	-1922.18				mg/L	
S	34	198414.302	-3947.09				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	100.106				
Cr	52	99.028				
Cr	53					
Mn	55	97.657				
Co	59	101.001				
Ni	60	100.079				
Cu	65	99.865				
Zn	66	98.756				
> Ge	72		96.202			
As	75	101.438				
Se	77					
Se	82	102.697				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.527				
Cd	114	98.463				
> In	115		93.826			
Sn	118					
Sb	123	100.782				
Ba	135	100.480				
Ce	140					
> Tb	159		91.331			
Ho	165					
Tl	203	97.533				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.422				
U	238	99.491				
> Bi	209		94.232			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 12:56:06

Approved: February 21, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 12:56:06
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Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 18, 2011 13:01:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18884.603	-0.02				ug/L
|	Be	9	10.000	0.00	-0.0339	0.001	1.686	ug/L
|	Al	27	4117.515	-0.00	-0.0198	0.027	137.634	ug/L
⌊>	Sc	45	283033.574	283033.57				ug/L
⌈	Ti	49	63.340	0.00	0.0558	0.033	58.697	ug/L
|	V	51	2452.747	0.00	-0.0013	0.008	625.858	ug/L
|	Cr	52	8101.361	0.00	0.0152	0.017	112.291	ug/L
|	Cr	53	280.032	-0.00	-0.0257	0.035	134.965	ug/L
|	Mn	55	353.010	0.00	-0.0044	0.002	35.777	ug/L
|	Co	59	63.668	0.00	-0.0175	0.001	4.022	ug/L
|	Ni	60	34.334	-0.00	-0.0378	0.002	5.725	ug/L
|	Cu	65	123.335	0.00	-0.0133	0.000	3.323	ug/L
|	Zn	66	761.703	0.00	-0.2215	0.035	15.745	ug/L
|>	Ge	72	467257.835	467257.84				ug/L
|	As	75	-141.997	0.00	0.0472	0.068	143.925	ug/L
|	Se	77	67.334	0.00	0.1752	0.253	144.366	ug/L
|	Se	82	4.287	0.00	0.0947	0.109	115.551	ug/L
⌊	Rb	85	19.334	0.00				mg/L
	Y	89	282437.754	-9160.52				ug/L
	Rh	103	9.333	1.00				ug/L
⌈	Mo	98	105.161	0.00	0.0576	0.004	7.285	ug/L
|	Ag	107	110.002	-0.00	-0.0145	0.003	21.264	ug/L
|	Cd	114	4.763	0.00	-0.0017	0.001	39.261	ug/L
|>	In	115	344590.179	344590.18				ug/L
|	Sn	118	229.069	0.00	0.0321	0.003	8.698	ug/L
⌊	Sb	123	197.787	0.00	0.0267	0.005	18.027	ug/L
⌈	Ba	135	15.000	0.00	-0.0030	0.002	58.479	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	495524.163	495524.16				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	28.334	0.00	-0.0004	0.001	203.559	ug/L
|	Tl	205	50.005	0.00	0.0214	0.001	4.467	ug/L
|	Pb	206	404.012	0.00	-0.0100	0.002	22.533	ug/L
|	Pb	207	341.343	-0.00	-0.0270	0.002	5.829	ug/L
|	Pb	208	1581.731	0.00	-0.0149	0.000	2.905	ug/L
|	U	238	114.002	0.00	-0.0124	0.000	2.440	ug/L
⌊>	Bi	209	480276.566	480276.57				ug/L

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⌈	Na	23	24402.183	-0.01	-0.0001	0.000	116.313	mg/L
|	Mg	24	423.385	-0.00	-0.0019	0.000	1.626	mg/L
|	K	39	539308.075	-0.05	-0.0034	0.002	50.119	mg/L
|	Ca	43	233.360	0.00	0.0002	0.004	1986.152	mg/L
|	Fe	54	45255.861	-0.01	-0.0007	0.004	585.636	mg/L
|	Fe	57	7306.733	0.00	-0.0007	0.001	125.316	mg/L
⌊>	Sc-1	45	283033.574	283033.57				mg/L
	Cl	35	18656.724	-200.37				mg/L
	Kr	83	43.667	-11.00				mg/L
	Br	81	8040.570	-150.13				mg/L
	P	31	11123.518	-961.86				mg/L
	S	34	197087.166	-5274.23				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.769			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.130			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.401			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.565			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 18, 2011 13:03:20

Approved: February 21, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 18, 2011 13:03:20

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: PBW 46 WG356783-02

Sample Date/Time: Friday, February 18, 2011 13:07:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21974.217	-0.01				ug/L
|	Be	9	8.667	0.00	-0.0392	0.025	64.395	ug/L
|	Al	27	10839.270	0.02	1.0619	0.252	23.701	ug/L
⌊>	Sc	45	289275.798	289275.80				ug/L
⌈	Ti	49	73.341	0.00	0.0709	0.079	111.172	ug/L
|	V	51	2571.643	0.00	0.0081	0.006	71.086	ug/L
|	Cr	52	9739.505	0.00	0.2017	0.013	6.456	ug/L
|	Cr	53	370.044	0.00	0.0640	0.109	170.004	ug/L
|	Mn	55	1106.072	0.00	0.0544	0.003	5.859	ug/L
|	Co	59	99.335	0.00	-0.0142	0.001	6.131	ug/L
|	Ni	60	214.671	0.00	0.0430	0.011	26.530	ug/L
|	Cu	65	537.687	0.00	0.1664	0.014	8.423	ug/L
|	Zn	66	3340.591	0.01	1.7169	0.037	2.179	ug/L
| >	Ge	72	472071.328	472071.33				ug/L
|	As	75	-162.403	0.00	0.0289	0.007	24.295	ug/L
|	Se	77	72.000	0.00	0.2302	0.142	61.674	ug/L
|	Se	82	5.957	0.00	0.1111	0.043	38.500	ug/L
⌊	Rb	85	46.667	0.00				mg/L
	Y	89	291864.464	266.19				ug/L
	Rh	103	8.333	-0.00				ug/L
⌈	Mo	98	106.499	0.00	0.0555	0.003	5.795	ug/L
|	Ag	107	40.334	-0.00	-0.0304	0.002	6.459	ug/L
|	Cd	114	1.670	0.00	-0.0047	0.003	57.654	ug/L
| >	In	115	365626.414	365626.41				ug/L
|	Sn	118	375.474	0.00	0.0650	0.001	2.246	ug/L
⌊	Sb	123	252.663	0.00	0.0378	0.003	8.279	ug/L
⌈	Ba	135	81.001	0.00	0.0365	0.006	15.557	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	507570.560	507570.56				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	21.000	0.00	-0.0016	0.001	62.129	ug/L
|	Tl	205	56.672	0.00	0.0216	0.000	1.532	ug/L
|	Pb	206	463.349	0.00	-0.0038	0.005	138.828	ug/L
|	Pb	207	434.680	0.00	-0.0137	0.003	19.767	ug/L
|	Pb	208	1891.089	0.00	-0.0060	0.001	17.234	ug/L
|	U	238	94.001	0.00	-0.0129	0.000	2.681	ug/L
⌊>	Bi	209	504987.856	504987.86				ug/L

Sample ID: PBW 46 WG356783-02
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⌈	Na	23	67436.686	0.14	0.0070	0.000	5.019	mg/L
|	Mg	24	14775.738	0.05	0.0019	0.000	7.977	mg/L
|	K	39	561615.747	-0.01	-0.0022	0.001	42.770	mg/L
|	Ca	43	493.395	0.00	0.0131	0.003	21.314	mg/L
|	Fe	54	101661.004	0.18	0.0848	0.016	18.713	mg/L
|	Fe	57	7893.905	0.00	0.0009	0.001	165.137	mg/L
⌊>	Sc-1	45	289275.798	289275.80				mg/L
	Cl	35	47949.354	29092.26				mg/L
	Kr	83	43.334	-11.33				mg/L
	Br	81	8408.870	218.17				mg/L
	P	31	21223.857	9138.48				mg/L
	S	34	197946.058	-4415.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		97.766			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
| >	In	115		98.815			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.720			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.482			
⌈	Na	23					

Sample ID: PBW 46 WG356783-02
Report Date/Time: Friday, February 18, 2011 13:10:04
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 46 WG356783-02
Report Date/Time: Friday, February 18, 2011 13:10:04

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: L1102000225

Sample Date/Time: Friday, February 18, 2011 13:14:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22358.379	-0.01				ug/L
|	Be	9	7217.944	0.02	23.4808	1.374	5.852	ug/L
|	Al	27	195698.498	0.65	30.4335	1.059	3.480	ug/L
⌊>	Sc	45	296002.177	296002.18				ug/L
⌈	Ti	49	280.033	0.00	0.4032	0.250	62.030	ug/L
|	V	51	268375.664	0.57	26.9640	0.933	3.461	ug/L
|	Cr	52	233389.563	0.48	27.1852	0.479	1.764	ug/L
|	Cr	53	26758.440	0.06	27.4400	0.726	2.647	ug/L
|	Mn	55	357542.211	0.76	28.1639	0.140	0.497	ug/L
|	Co	59	279126.655	0.59	26.7837	0.982	3.666	ug/L
|	Ni	60	58172.630	0.12	26.2104	0.473	1.803	ug/L
|	Cu	65	60873.728	0.13	26.5421	0.513	1.933	ug/L
|	Zn	66	35875.597	0.07	26.3738	0.189	0.718	ug/L
| >	Ge	72	469844.913	469844.91				ug/L
|	As	75	25091.984	0.05	24.1063	0.254	1.052	ug/L
|	Se	77	1770.823	0.00	22.9399	0.512	2.233	ug/L
|	Se	82	2108.175	0.00	22.4068	0.450	2.008	ug/L
⌊	Rb	85	118.335	0.00				mg/L
	Y	89	297522.747	5924.48				ug/L
	Rh	103	20.667	12.33				ug/L
⌈	Mo	98	59.165	0.00	0.0357	0.003	9.234	ug/L
|	Ag	107	119433.519	0.32	24.4162	0.275	1.127	ug/L
|	Cd	114	27042.540	0.07	23.9320	0.918	3.837	ug/L
| >	In	115	370373.716	370373.72				ug/L
|	Sn	118	212.402	0.00	0.0239	0.002	10.180	ug/L
⌊	Sb	123	94875.772	0.26	24.3939	0.238	0.975	ug/L
⌈	Ba	135	42503.239	0.08	25.4473	1.005	3.951	ug/L
|	Ce	140	180.020	0.00				ug/L
⌊>	Tb	159	510752.188	510752.19				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	195028.917	0.38	24.9905	0.975	3.902	ug/L
|	Tl	205	470898.906	0.91	23.9832	0.266	1.107	ug/L
|	Pb	206	166113.393	0.32	26.3093	0.541	2.055	ug/L
|	Pb	207	148346.785	0.29	25.4038	0.542	2.133	ug/L
|	Pb	208	688921.203	1.33	26.2837	0.314	1.193	ug/L
|	U	238	1259005.052	2.44	25.6600	0.263	1.027	ug/L
⌊>	Bi	209	516286.669	516286.67				ug/L

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⌈	Na	23	100843.119	0.25	0.0122	0.001	5.256	mg/L
|	Mg	24	48699.829	0.16	0.0108	0.000	2.192	mg/L
|	K	39	639389.683	0.21	0.0049	0.002	37.351	mg/L
|	Ca	43	826.784	0.00	0.0290	0.004	14.148	mg/L
|	Fe	54	98499.278	0.16	0.0764	0.010	12.916	mg/L
|	Fe	57	8474.441	0.00	0.0023	0.001	49.341	mg/L
⌊>	Sc-1	45	296002.177	296002.18				mg/L
	Cl	35	158484.692	139627.60				mg/L
	Kr	83	47.334	-7.33				mg/L
	Br	81	14170.034	5979.34				mg/L
	P	31	25100.695	13015.32				mg/L
	S	34	203132.313	770.92				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		97.305			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
| >	In	115		100.098			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.333			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.731			
⌈	Na	23					

Sample ID: L1102000225
Report Date/Time: Friday, February 18, 2011 13:16:48

Approved: February 21, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102000225
Report Date/Time: Friday, February 18, 2011 13:16:48
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Method 6020 - Summary Report

Sample ID: L1102000226

Sample Date/Time: Friday, February 18, 2011 13:21:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22124.456	-0.01				ug/L
|	Be	9	7255.967	0.02	23.8442	0.842	3.529	ug/L
|	Al	27	226009.421	0.76	35.6259	0.644	1.807	ug/L
|>	Sc	45	292979.928	292979.93				ug/L
⌈	Ti	49	390.052	0.00	0.5793	0.625	107.824	ug/L
|	V	51	262609.400	0.55	26.2623	0.797	3.034	ug/L
|	Cr	52	231591.281	0.47	26.8506	0.445	1.657	ug/L
|	Cr	53	26694.940	0.06	27.2618	0.958	3.512	ug/L
|	Mn	55	342606.564	0.73	26.8774	0.263	0.980	ug/L
|	Co	59	278262.315	0.59	26.5855	0.463	1.743	ug/L
|	Ni	60	59229.485	0.13	26.5750	0.135	0.508	ug/L
|	Cu	65	62096.498	0.13	26.9676	0.332	1.233	ug/L
|	Zn	66	35613.000	0.07	26.0644	0.442	1.696	ug/L
|>	Ge	72	471761.540	471761.54				ug/L
|	As	75	25321.543	0.05	24.2256	0.138	0.569	ug/L
|	Se	77	1785.493	0.00	23.0355	0.709	3.080	ug/L
|	Se	82	2099.851	0.00	22.2236	0.791	3.558	ug/L
⌊	Rb	85	254.339	0.00				mg/L
	Y	89	294409.269	2811.00				ug/L
	Rh	103	17.334	9.00				ug/L
⌈	Mo	98	42.941	0.00	0.0293	0.001	4.775	ug/L
|	Ag	107	117160.515	0.32	24.1871	0.246	1.018	ug/L
|	Cd	114	27645.230	0.08	24.7050	0.386	1.563	ug/L
|>	In	115	366736.273	366736.27				ug/L
|	Sn	118	155.335	0.00	0.0103	0.001	9.522	ug/L
⌊	Sb	123	94524.252	0.26	24.5429	0.128	0.521	ug/L
⌈	Ba	135	42299.030	0.08	25.1228	0.905	3.602	ug/L
|	Ce	140	116.679	0.00				ug/L
|>	Tb	159	514904.216	514904.22				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	199066.375	0.39	25.8544	0.438	1.695	ug/L
|	Tl	205	495871.441	0.97	25.6064	0.465	1.815	ug/L
|	Pb	206	170118.419	0.33	27.3158	0.595	2.178	ug/L
|	Pb	207	148220.516	0.29	25.7328	0.864	3.358	ug/L
|	Pb	208	693584.939	1.36	26.8314	0.252	0.937	ug/L
|	U	238	1256868.276	2.47	25.9733	0.289	1.112	ug/L
|>	Bi	209	509199.530	509199.53				ug/L

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Na	23	100580.272	0.25	0.0123	0.001	4.476	mg/L	
Mg	24	63936.840	0.22	0.0150	0.000	2.383	mg/L	
K	39	634245.048	0.21	0.0050	0.001	13.665	mg/L	
Ca	43	860.123	0.00	0.0311	0.002	7.708	mg/L	
Fe	54	100453.448	0.17	0.0807	0.005	5.912	mg/L	
Fe	57	8824.775	0.00	0.0039	0.001	15.194	mg/L	
Sc-1	45	292979.928	292979.93				mg/L	
Cl	35	41046.737	22189.64				mg/L	
Kr	83	46.001	-8.67				mg/L	
Br	81	8512.289	321.59				mg/L	
P	31	21483.393	9398.02				mg/L	
S	34	194320.772	-8040.62				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		97.702			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		99.115			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		99.132			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.320			
Na	23					

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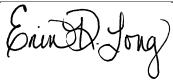
Approved: February 21, 2011



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102000227

Sample Date/Time: Friday, February 18, 2011 13:28:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23494.322	-0.00				ug/L
|	Be	9	7055.158	0.02	23.5631	1.044	4.432	ug/L
|	Al	27	163561.462	0.55	26.0167	0.941	3.618	ug/L
⌊>	Sc	45	288280.493	288280.49				ug/L
⌈	Ti	49	90.009	0.00	0.0971	0.043	44.348	ug/L
|	V	51	263799.385	0.55	26.1973	0.139	0.530	ug/L
|	Cr	52	227584.264	0.46	26.1820	0.452	1.725	ug/L
|	Cr	53	26093.277	0.05	26.4525	0.570	2.157	ug/L
|	Mn	55	339816.358	0.71	26.4727	0.166	0.626	ug/L
|	Co	59	274163.501	0.58	26.0131	0.562	2.162	ug/L
|	Ni	60	57832.012	0.12	25.7660	0.390	1.513	ug/L
|	Cu	65	61549.199	0.13	26.5389	0.467	1.758	ug/L
|	Zn	66	36849.150	0.08	26.8014	0.324	1.211	ug/L
| >	Ge	72	475082.658	475082.66				ug/L
|	As	75	24932.671	0.05	23.6916	0.463	1.955	ug/L
|	Se	77	1768.156	0.00	22.6407	0.048	0.213	ug/L
|	Se	82	2097.890	0.00	22.0462	0.441	2.001	ug/L
⌊	Rb	85	47.001	0.00				mg/L
	Y	89	289191.105	-2407.17				ug/L
	Rh	103	16.334	8.00				ug/L
⌈	Mo	98	37.758	0.00	0.0271	0.003	9.523	ug/L
|	Ag	107	117336.123	0.32	24.2089	0.633	2.615	ug/L
|	Cd	114	27573.761	0.08	24.6275	0.680	2.761	ug/L
| >	In	115	366962.364	366962.36				ug/L
|	Sn	118	201.202	0.00	0.0216	0.002	9.388	ug/L
⌊	Sb	123	92499.139	0.25	24.0017	0.183	0.763	ug/L
⌈	Ba	135	42186.923	0.08	24.8033	0.183	0.737	ug/L
|	Ce	140	86.676	0.00				ug/L
⌊>	Tb	159	519731.502	519731.50				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	200656.401	0.39	25.9596	0.562	2.165	ug/L
|	Tl	205	480284.570	0.94	24.6989	0.373	1.511	ug/L
|	Pb	206	169521.020	0.33	27.1094	0.389	1.437	ug/L
|	Pb	207	150175.348	0.29	25.9671	0.606	2.335	ug/L
|	Pb	208	689646.125	1.35	26.5678	0.365	1.374	ug/L
|	U	238	1257756.750	2.46	25.8851	0.632	2.443	ug/L
⌊>	Bi	209	511297.301	511297.30				ug/L

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⌈	Na	23	65688.364	0.14	0.0067	0.000	2.179	mg/L
|	Mg	24	22283.712	0.08	0.0040	0.000	2.534	mg/L
|	K	39	558348.866	-0.01	-0.0024	0.001	60.459	mg/L
|	Ca	43	813.448	0.00	0.0295	0.003	11.163	mg/L
|	Fe	54	99316.483	0.17	0.0815	0.007	8.541	mg/L
|	Fe	57	7623.672	0.00	-0.0000	0.002	3471.322	mg/L
⌊>	Sc-1	45	288280.493	288280.49				mg/L
	Cl	35	29103.627	10246.53				mg/L
	Kr	83	41.334	-13.33				mg/L
	Br	81	9489.843	1299.15				mg/L
	P	31	22422.563	10337.19				mg/L
	S	34	195946.335	-6415.06				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.389			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.176			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.062			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.738			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: L1102000228

Sample Date/Time: Friday, February 18, 2011 13:34:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25432.582	0.00				ug/L
|	Be	9	7497.481	0.03	24.3449	0.985	4.048	ug/L
|	Al	27	231653.922	0.77	36.1071	1.448	4.011	ug/L
⌊>	Sc	45	296464.272	296464.27				ug/L
⌈	Ti	49	230.026	0.00	0.3229	0.016	4.840	ug/L
|	V	51	261193.116	0.55	26.1271	0.506	1.935	ug/L
|	Cr	52	232353.719	0.48	26.9501	0.624	2.314	ug/L
|	Cr	53	27199.664	0.06	27.7840	0.309	1.111	ug/L
|	Mn	55	335258.774	0.71	26.3061	0.623	2.367	ug/L
|	Co	59	276831.576	0.59	26.4536	0.510	1.926	ug/L
|	Ni	60	58764.428	0.12	26.3720	0.524	1.985	ug/L
|	Cu	65	60497.719	0.13	26.2747	0.114	0.433	ug/L
|	Zn	66	35422.650	0.07	25.9246	0.266	1.027	ug/L
| >	Ge	72	471702.959	471702.96				ug/L
|	As	75	24691.174	0.05	23.6302	0.590	2.496	ug/L
|	Se	77	1708.813	0.00	22.0220	0.992	4.506	ug/L
|	Se	82	2117.539	0.00	22.4140	0.773	3.448	ug/L
⌊	Rb	85	259.673	0.00				mg/L
	Y	89	289207.881	-2390.39				ug/L
	Rh	103	12.667	4.33				ug/L
⌈	Mo	98	39.676	0.00	0.0280	0.002	5.986	ug/L
|	Ag	107	116535.443	0.32	24.0904	0.244	1.014	ug/L
|	Cd	114	27550.115	0.08	24.6552	0.057	0.232	ug/L
| >	In	115	366212.692	366212.69				ug/L
|	Sn	118	147.201	0.00	0.0083	0.002	23.991	ug/L
⌊	Sb	123	94059.607	0.26	24.4577	0.249	1.019	ug/L
⌈	Ba	135	41770.501	0.08	24.6704	0.475	1.926	ug/L
|	Ce	140	93.343	0.00				ug/L
⌊>	Tb	159	517428.957	517428.96				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	198576.574	0.39	25.6190	0.750	2.929	ug/L
|	Tl	205	496796.560	0.97	25.4539	0.624	2.450	ug/L
|	Pb	206	170694.411	0.33	27.2062	0.787	2.893	ug/L
|	Pb	207	149766.499	0.29	25.8182	0.443	1.716	ug/L
|	Pb	208	688020.193	1.34	26.4227	0.417	1.578	ug/L
|	U	238	1249747.236	2.44	25.6301	0.380	1.483	ug/L
⌊>	Bi	209	512965.071	512965.07				ug/L

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⌈	Na	23	83898.929	0.19	0.0094	0.000	0.862	mg/L
|	Mg	24	46887.825	0.16	0.0103	0.001	5.565	mg/L
|	K	39	612346.761	0.11	0.0018	0.001	39.359	mg/L
|	Ca	43	770.107	0.00	0.0262	0.003	11.924	mg/L
|	Fe	54	101654.890	0.17	0.0808	0.004	5.026	mg/L
|	Fe	57	7970.645	0.00	0.0004	0.001	337.260	mg/L
⌊>	Sc-1	45	296464.272	296464.27				mg/L
	Cl	35	30929.096	12072.00				mg/L
	Kr	83	44.001	-10.67				mg/L
	Br	81	8723.813	533.12				mg/L
	P	31	24007.117	11921.74				mg/L
	S	34	187288.765	-15072.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.690			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.973			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.618			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.070			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102000228
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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 18, 2011 13:41:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18099.772	-0.02				ug/L
|	Be	9	13808.200	0.05	47.4373	2.361	4.978	ug/L
|	Al	27	278939.640	0.98	46.1297	2.980	6.460	ug/L
⌊>	Sc	45	280875.735	280875.74				ug/L
⌈	Ti	49	60941.280	0.13	98.0553	2.902	2.959	ug/L
|	V	51	485926.234	1.03	48.9002	0.202	0.414	ug/L
|	Cr	52	412293.044	0.86	48.6471	0.758	1.557	ug/L
|	Cr	53	47674.827	0.10	49.0218	0.975	1.989	ug/L
|	Mn	55	611512.871	1.30	48.0842	0.060	0.125	ug/L
|	Co	59	506968.008	1.08	48.5384	0.530	1.093	ug/L
|	Ni	60	107994.499	0.23	48.5849	0.592	1.218	ug/L
|	Cu	65	109672.970	0.23	47.7673	0.877	1.836	ug/L
|	Zn	66	65714.210	0.14	48.8590	0.178	0.364	ug/L
| >	Ge	72	470922.850	470922.85				ug/L
|	As	75	51961.137	0.11	49.6092	0.635	1.281	ug/L
|	Se	77	3757.374	0.01	49.3606	2.720	5.511	ug/L
|	Se	82	4740.473	0.01	50.2001	0.346	0.689	ug/L
⌊	Rb	85	1945.542	0.00				mg/L
	Y	89	280902.060	-10696.21				ug/L
	Rh	103	21.667	13.33				ug/L
⌈	Mo	98	231771.002	0.67	101.0517	2.132	2.110	ug/L
|	Ag	107	222112.817	0.64	48.7717	0.461	0.945	ug/L
|	Cd	114	53855.619	0.16	51.1432	2.020	3.949	ug/L
| >	In	115	345082.559	345082.56				ug/L
|	Sn	118	188309.266	0.55	49.4612	0.925	1.870	ug/L
⌊	Sb	123	183161.078	0.53	50.5715	0.259	0.511	ug/L
⌈	Ba	135	77789.194	0.17	50.5146	0.747	1.478	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	470785.302	470785.30				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	347289.228	0.73	48.4913	0.383	0.791	ug/L
|	Tl	205	887750.843	1.87	49.2470	0.108	0.220	ug/L
|	Pb	206	285430.865	0.60	49.3228	1.059	2.146	ug/L
|	Pb	207	267758.683	0.56	50.0471	1.424	2.844	ug/L
|	Pb	208	1199330.643	2.53	49.9281	0.823	1.648	ug/L
|	U	238	2225609.843	4.70	49.4505	1.654	3.344	ug/L
⌊>	Bi	209	473795.558	473795.56				ug/L

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⌈	Na	23	28203114.680	100.45	4.8747	0.326	6.689	mg/L
|	Mg	24	17519194.879	62.43	4.8646	0.201	4.130	mg/L
|	K	39	42365997.112	149.02	4.8362	0.222	4.592	mg/L
|	Ca	43	92515.254	0.33	4.8233	0.144	2.988	mg/L
|	Fe	54	3099704.505	10.87	4.8436	0.140	2.886	mg/L
|	Fe	57	1246115.202	4.42	4.7613	0.292	6.130	mg/L
⌊>	Sc-1	45	280875.735	280875.74				mg/L
	Cl	35	18497.093	-360.00				mg/L
	Kr	83	44.334	-10.33				mg/L
	Br	81	7960.502	-230.19				mg/L
	P	31	10380.056	-1705.32				mg/L
	S	34	194445.862	-7915.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	97.800				
|	Cr	52	97.294				
|	Cr	53					
|	Mn	55	96.168				
|	Co	59	97.077				
|	Ni	60	97.170				
|	Cu	65	95.535				
|	Zn	66	97.718				
|>	Ge	72		97.528			
|	As	75	99.218				
|	Se	77					
|	Se	82	100.400				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	97.543				
|	Cd	114	102.286				
|>	In	115		93.263			
|	Sn	118					
⌊	Sb	123	101.143				
⌈	Ba	135	101.029				
|	Ce	140					
⌊>	Tb	159		90.638			
⌈	Ho	165					
|	Tl	203	96.983				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.856				
|	U	238	98.901				
⌊>	Bi	209		94.276			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 13:43:51

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 13:43:51

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 18, 2011 13:48:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20370.769	-0.01				ug/L
|	Be	9	8.000	0.00	-0.0393	0.001	1.715	ug/L
|	Al	27	3600.654	-0.00	-0.0757	0.065	85.385	ug/L
⌊>	Sc	45	269090.395	269090.39				ug/L
⌈	Ti	49	46.671	-0.00	0.0284	0.033	117.711	ug/L
|	V	51	2386.909	0.00	-0.0100	0.012	116.815	ug/L
|	Cr	52	8035.976	0.00	-0.0005	0.021	3987.770	ug/L
|	Cr	53	223.358	-0.00	-0.0869	0.012	13.968	ug/L
|	Mn	55	357.677	0.00	-0.0043	0.000	10.663	ug/L
|	Co	59	53.001	-0.00	-0.0186	0.001	3.097	ug/L
|	Ni	60	44.334	-0.00	-0.0334	0.002	4.997	ug/L
|	Cu	65	111.002	-0.00	-0.0191	0.003	18.101	ug/L
|	Zn	66	733.034	-0.00	-0.2475	0.012	4.948	ug/L
|>	Ge	72	470901.232	470901.23				ug/L
|	As	75	-165.367	-0.00	0.0255	0.042	165.581	ug/L
|	Se	77	70.667	0.00	0.2140	0.197	91.912	ug/L
|	Se	82	-0.765	0.00	0.0396	0.133	335.915	ug/L
⌊	Rb	85	26.000	0.00				mg/L
	Y	89	291109.224	-489.05				ug/L
	Rh	103	8.333	0.00				ug/L
⌈	Mo	98	89.901	0.00	0.0503	0.002	4.834	ug/L
|	Ag	107	33.334	-0.00	-0.0316	0.001	3.767	ug/L
|	Cd	114	-0.481	-0.00	-0.0066	0.004	60.371	ug/L
|>	In	115	350313.643	350313.64				ug/L
|	Sn	118	262.137	0.00	0.0397	0.008	18.945	ug/L
⌊	Sb	123	110.787	-0.00	0.0021	0.001	50.406	ug/L
⌈	Ba	135	15.667	0.00	-0.0025	0.004	147.685	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	484765.361	484765.36				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	26.334	0.00	-0.0007	0.001	168.829	ug/L
|	Tl	205	63.340	0.00	0.0221	0.001	2.814	ug/L
|	Pb	206	378.011	-0.00	-0.0148	0.003	23.283	ug/L
|	Pb	207	324.009	-0.00	-0.0304	0.005	16.257	ug/L
|	Pb	208	1546.064	-0.00	-0.0167	0.003	18.701	ug/L
|	U	238	116.002	0.00	-0.0123	0.000	0.983	ug/L
⌊>	Bi	209	482680.856	482680.86				ug/L

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Na	23	23800.685	-0.00	-0.0000	0.000	731.181	mg/L
Mg	24	480.060	0.00	-0.0019	0.000	1.188	mg/L
K	39	549219.143	0.09	0.0010	0.002	163.555	mg/L
Ca	43	250.028	0.00	0.0017	0.003	154.366	mg/L
Fe	54	45311.239	-0.00	0.0031	0.004	121.782	mg/L
Fe	57	6959.786	0.00	-0.0007	0.001	141.893	mg/L
> Sc-1	45	269090.395	269090.39				mg/L
Cl	35	18451.677	-405.42				mg/L
Kr	83	49.667	-5.00				mg/L
Br	81	7801.042	-389.65				mg/L
P	31	9600.615	-2484.76				mg/L
S	34	193183.267	-9178.13				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		97.523			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		94.676			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		93.330			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		96.044			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 18, 2011 13:51:06

Approved: February 21, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 18, 2011 13:51:06

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: PBW C4 WG356785-02

Sample Date/Time: Friday, February 18, 2011 13:55:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17448.767	-0.02				ug/L
|	Be	9	10.667	0.00	-0.0314	0.017	53.773	ug/L
|	Al	27	6135.223	0.01	0.3180	0.116	36.588	ug/L
|>	Sc	45	283208.726	283208.73				ug/L
⌈	Ti	49	63.340	0.00	0.0558	0.082	147.104	ug/L
|	V	51	2455.666	0.00	-0.0028	0.013	482.787	ug/L
|	Cr	52	7901.200	0.00	-0.0161	0.021	130.611	ug/L
|	Cr	53	206.690	-0.00	-0.1042	0.065	62.013	ug/L
|	Mn	55	473.683	0.00	0.0049	0.001	26.331	ug/L
|	Co	59	92.335	0.00	-0.0148	0.000	2.427	ug/L
|	Ni	60	96.335	0.00	-0.0100	0.001	7.190	ug/L
|	Cu	65	186.004	0.00	0.0136	0.008	58.702	ug/L
|	Zn	66	2148.586	0.00	0.8229	0.035	4.309	ug/L
|>	Ge	72	470680.941	470680.94				ug/L
|	As	75	-135.727	0.00	0.0534	0.078	145.867	ug/L
|	Se	77	74.000	0.00	0.2595	0.147	56.650	ug/L
|	Se	82	6.241	0.00	0.1140	0.152	133.056	ug/L
⌊	Rb	85	28.000	0.00				mg/L
	Y	89	288360.715	-3237.56				ug/L
	Rh	103	8.667	0.33				ug/L
⌈	Mo	98	44.831	0.00	0.0311	0.001	3.268	ug/L
|	Ag	107	78.668	-0.00	-0.0216	0.004	20.501	ug/L
|	Cd	114	4.645	0.00	-0.0018	0.003	157.913	ug/L
|>	In	115	346815.354	346815.35				ug/L
|	Sn	118	159.201	0.00	0.0135	0.001	4.464	ug/L
⌊	Sb	123	57.618	-0.00	-0.0122	0.000	0.729	ug/L
⌈	Ba	135	46.667	0.00	0.0179	0.002	8.531	ug/L
|	Ce	140	40.004	0.00				ug/L
|>	Tb	159	473667.723	473667.72				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	40.334	0.00	0.0012	0.001	80.308	ug/L
|	Tl	205	63.340	0.00	0.0221	0.001	3.852	ug/L
|	Pb	206	384.678	-0.00	-0.0134	0.001	6.901	ug/L
|	Pb	207	337.009	-0.00	-0.0278	0.003	9.058	ug/L
|	Pb	208	1563.731	-0.00	-0.0157	0.002	9.893	ug/L
|	U	238	30.667	-0.00	-0.0142	0.000	0.365	ug/L
|>	Bi	209	480781.823	480781.82				ug/L

Sample ID: PBW C4 WG356785-02
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⌈	Na	23	34352.435	0.03	0.0016	0.000	30.809	mg/L
|	Mg	24	11884.915	0.04	0.0012	0.000	12.074	mg/L
|	K	39	560976.044	0.03	-0.0009	0.003	279.641	mg/L
|	Ca	43	316.703	0.00	0.0045	0.003	60.146	mg/L
|	Fe	54	31955.248	-0.06	-0.0216	0.003	15.592	mg/L
|	Fe	57	7260.033	0.00	-0.0009	0.001	157.476	mg/L
⌊>	Sc-1	45	283208.726	283208.73				mg/L
	Cl	35	18785.631	-71.47				mg/L
	Kr	83	49.001	-5.67				mg/L
	Br	81	7911.798	-278.90				mg/L
	P	31	7416.784	-4668.59				mg/L
	S	34	187914.772	-14446.62				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.478			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.731			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.193			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.666			
⌈	Na	23					

Sample ID: PBW C4 WG356785-02
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW C4 WG356785-02
Report Date/Time: Friday, February 18, 2011 13:57:52
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Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: L1102000241

Sample Date/Time: Friday, February 18, 2011 14:02:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19402.687	-0.01				ug/L
|	Be	9	1439.437	0.01	4.8917	0.224	4.575	ug/L
|	Al	27	48048.519	0.16	7.3780	0.262	3.555	ug/L
⌊>	Sc	45	280139.681	280139.68				ug/L
⌈	Ti	49	53.339	-0.00	0.0376	0.033	87.301	ug/L
|	V	51	53930.728	0.11	5.1069	0.060	1.178	ug/L
|	Cr	52	51864.416	0.09	5.1632	0.197	3.810	ug/L
|	Cr	53	5135.167	0.01	4.9029	0.280	5.717	ug/L
|	Mn	55	69425.581	0.14	5.3338	0.125	2.346	ug/L
|	Co	59	53824.353	0.11	5.0411	0.082	1.620	ug/L
|	Ni	60	11697.290	0.02	5.1218	0.127	2.489	ug/L
|	Cu	65	12285.665	0.03	5.1958	0.046	0.892	ug/L
|	Zn	66	10313.085	0.02	6.8542	0.040	0.589	ug/L
|>	Ge	72	479419.244	479419.24				ug/L
|	As	75	5528.451	0.01	5.3489	0.213	3.989	ug/L
|	Se	77	478.011	0.00	5.5319	0.353	6.382	ug/L
|	Se	82	520.567	0.00	5.4596	0.630	11.536	ug/L
⌊	Rb	85	73.668	0.00				mg/L
	Y	89	298818.661	7220.39				ug/L
	Rh	103	7.000	-1.33				ug/L
⌈	Mo	98	35.722	0.00	0.0271	0.003	10.042	ug/L
|	Ag	107	22885.064	0.06	4.9572	0.191	3.857	ug/L
|	Cd	114	5872.877	0.02	5.5346	0.033	0.604	ug/L
|>	In	115	347459.094	347459.09				ug/L
|	Sn	118	215.469	0.00	0.0279	0.020	70.041	ug/L
⌊	Sb	123	19303.012	0.06	5.2686	0.130	2.463	ug/L
⌈	Ba	135	8297.525	0.02	5.2605	0.133	2.533	ug/L
|	Ce	140	136.681	0.00				ug/L
⌊>	Tb	159	481174.396	481174.40				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	37570.518	0.08	5.2287	0.102	1.955	ug/L
|	Tl	205	90920.604	0.19	5.0486	0.123	2.438	ug/L
|	Pb	206	31449.043	0.07	5.3508	0.126	2.355	ug/L
|	Pb	207	27562.208	0.06	5.0581	0.031	0.616	ug/L
|	Pb	208	129578.786	0.27	5.3098	0.073	1.380	ug/L
|	U	238	232128.088	0.49	5.1306	0.050	0.980	ug/L
⌊>	Bi	209	474948.423	474948.42				ug/L

Sample ID: L1102000241
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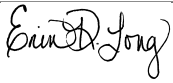

⌈	Na	23	37353.370	0.04	0.0022	0.000	9.544	mg/L
|	Mg	24	8007.342	0.03	0.0002	0.000	23.274	mg/L
|	K	39	562424.432	0.06	-0.0000	0.003	13903.671	mg/L
|	Ca	43	393.381	0.00	0.0087	0.003	37.395	mg/L
|	Fe	54	33694.633	-0.05	-0.0183	0.001	4.600	mg/L
|	Fe	57	7873.886	0.00	0.0018	0.001	62.893	mg/L
⌊>	Sc-1	45	280139.681	280139.68				mg/L
	Cl	35	18565.220	-291.88				mg/L
	Kr	83	52.334	-2.33				mg/L
	Br	81	8482.944	292.25				mg/L
	P	31	6858.352	-5227.02				mg/L
	S	34	184854.936	-17506.46				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.288			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.905			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.638			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.505			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: L1102000241

Sample Date/Time: Friday, February 18, 2011 14:13:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20988.780	-0.01				ug/L
|	Be	9	6881.702	0.02	22.6999	1.190	5.240	ug/L
|	Al	27	231211.643	0.78	36.5950	1.759	4.806	ug/L
⌊>	Sc	45	292090.118	292090.12				ug/L
⌈	Ti	49	150.016	0.00	0.1915	0.027	14.056	ug/L
|	V	51	262846.607	0.55	25.9761	0.647	2.493	ug/L
|	Cr	52	229650.021	0.46	26.2948	0.489	1.861	ug/L
|	Cr	53	26514.422	0.05	26.7517	0.390	1.457	ug/L
|	Mn	55	347302.329	0.73	26.9251	0.133	0.496	ug/L
|	Co	59	271659.328	0.57	25.6472	0.430	1.676	ug/L
|	Ni	60	57023.692	0.12	25.2822	0.124	0.492	ug/L
|	Cu	65	59604.371	0.12	25.5769	0.194	0.757	ug/L
|	Zn	66	36863.200	0.08	26.6810	0.543	2.036	ug/L
| >	Ge	72	477375.818	477375.82				ug/L
|	As	75	25793.150	0.05	24.3860	0.205	0.839	ug/L
|	Se	77	1832.835	0.00	23.3810	0.798	3.413	ug/L
|	Se	82	2278.546	0.00	23.8282	0.758	3.182	ug/L
⌊	Rb	85	264.339	0.00				mg/L
	Y	89	298180.024	6581.75				ug/L
	Rh	103	16.667	8.33				ug/L
⌈	Mo	98	47.649	0.00	0.0315	0.003	8.151	ug/L
|	Ag	107	114390.717	0.32	24.0374	0.975	4.057	ug/L
|	Cd	114	27559.020	0.08	25.0610	0.511	2.039	ug/L
| >	In	115	360420.200	360420.20				ug/L
|	Sn	118	180.935	0.00	0.0173	0.003	18.285	ug/L
⌊	Sb	123	94810.034	0.26	25.0513	0.239	0.955	ug/L
⌈	Ba	135	41668.057	0.08	24.9651	0.601	2.408	ug/L
|	Ce	140	416.717	0.00				ug/L
⌊>	Tb	159	510140.536	510140.54				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	195784.141	0.39	25.8064	0.546	2.117	ug/L
|	Tl	205	474279.870	0.95	24.8509	0.794	3.196	ug/L
|	Pb	206	163900.994	0.33	26.7004	0.192	0.718	ug/L
|	Pb	207	142332.230	0.28	25.0687	0.302	1.206	ug/L
|	Pb	208	658939.440	1.31	25.8587	0.274	1.061	ug/L
|	U	238	1231059.324	2.45	25.8051	0.700	2.713	ug/L
⌊>	Bi	209	501918.305	501918.30				ug/L

Sample ID: L1102000241
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⌈	Na	23	104180.617	0.27	0.0130	0.001	7.467	mg/L
|	Mg	24	38149.778	0.13	0.0081	0.000	3.080	mg/L
|	K	39	591784.708	0.08	0.0005	0.002	358.690	mg/L
|	Ca	43	1130.177	0.00	0.0447	0.004	9.553	mg/L
|	Fe	54	89738.337	0.14	0.0650	0.007	11.212	mg/L
|	Fe	57	12141.918	0.02	0.0163	0.001	3.618	mg/L
⌊>	Sc-1	45	292090.118	292090.12				mg/L
	Cl	35	25272.562	6415.47				mg/L
	Kr	83	47.667	-7.00				mg/L
	Br	81	9206.236	1015.54				mg/L
	P	31	17608.267	5522.89				mg/L
	S	34	191279.574	-11081.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.864			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.408			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.215			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.872			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102000242

Sample Date/Time: Friday, February 18, 2011 14:20:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21690.375	-0.01				ug/L
|	Be	9	7039.146	0.02	23.3629	1.633	6.991	ug/L
|	Al	27	188153.974	0.63	29.8409	1.719	5.761	ug/L
⌊>	Sc	45	290566.175	290566.18				ug/L
⌈	Ti	49	180.020	0.00	0.2376	0.041	17.106	ug/L
|	V	51	260682.881	0.54	25.6241	0.236	0.921	ug/L
|	Cr	52	230227.230	0.46	26.2204	0.444	1.692	ug/L
|	Cr	53	26330.588	0.05	26.4239	0.551	2.086	ug/L
|	Mn	55	344279.694	0.72	26.5521	0.580	2.185	ug/L
|	Co	59	278822.302	0.58	26.1871	0.348	1.329	ug/L
|	Ni	60	59371.043	0.12	26.1885	0.718	2.741	ug/L
|	Cu	65	61182.232	0.13	26.1192	0.545	2.085	ug/L
|	Zn	66	36582.826	0.07	26.3286	0.288	1.094	ug/L
| >	Ge	72	479896.789	479896.79				ug/L
|	As	75	25862.724	0.05	24.3233	0.595	2.447	ug/L
|	Se	77	1763.489	0.00	22.3483	0.934	4.181	ug/L
|	Se	82	2189.880	0.00	22.7837	0.699	3.067	ug/L
⌊	Rb	85	74.334	0.00				mg/L
	Y	89	292172.755	574.49				ug/L
	Rh	103	16.667	8.33				ug/L
⌈	Mo	98	44.827	0.00	0.0301	0.002	7.406	ug/L
|	Ag	107	115336.479	0.31	23.8510	0.405	1.697	ug/L
|	Cd	114	28502.534	0.08	25.5077	0.710	2.783	ug/L
| >	In	115	366152.562	366152.56				ug/L
|	Sn	118	164.401	0.00	0.0126	0.002	13.696	ug/L
⌊	Sb	123	94888.095	0.26	24.6803	0.385	1.561	ug/L
⌈	Ba	135	42441.354	0.08	25.5291	1.016	3.979	ug/L
|	Ce	140	106.678	0.00				ug/L
⌊>	Tb	159	508164.240	508164.24				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	196467.054	0.38	25.3644	0.494	1.949	ug/L
|	Tl	205	489370.719	0.96	25.1129	0.491	1.955	ug/L
|	Pb	206	167061.081	0.33	26.6568	0.279	1.048	ug/L
|	Pb	207	146047.721	0.28	25.1947	0.305	1.209	ug/L
|	Pb	208	677055.800	1.32	26.0245	0.391	1.502	ug/L
|	U	238	1255680.244	2.45	25.7838	0.461	1.787	ug/L
⌊>	Bi	209	512395.457	512395.46				ug/L

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⌈	Na	23	52104.061	0.09	0.0044	0.001	16.016	mg/L
|	Mg	24	10713.474	0.04	0.0008	0.000	18.718	mg/L
|	K	39	559856.350	-0.02	-0.0026	0.003	104.938	mg/L
|	Ca	43	383.379	0.00	0.0074	0.003	39.105	mg/L
|	Fe	54	88400.438	0.13	0.0636	0.009	14.786	mg/L
|	Fe	57	8344.326	0.00	0.0024	0.002	91.498	mg/L
⌊>	Sc-1	45	290566.175	290566.18				mg/L
	Cl	35	27704.996	8847.90				mg/L
	Kr	83	45.001	-9.67				mg/L
	Br	81	9405.756	1215.06				mg/L
	P	31	20962.002	8876.63				mg/L
	S	34	202509.328	147.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.386			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.957			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.835			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.956			
⌈	Na	23					

Sample ID: L1102000242
Report Date/Time: Friday, February 18, 2011 14:22:56

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: L1102000243

Sample Date/Time: Friday, February 18, 2011 14:27:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20370.848	-0.01				ug/L
|	Be	9	6918.393	0.02	22.4953	0.237	1.055	ug/L
|	Al	27	167897.753	0.55	26.0123	0.532	2.044	ug/L
⌊>	Sc	45	296053.089	296053.09				ug/L
⌈	Ti	49	113.345	0.00	0.1342	0.052	38.543	ug/L
|	V	51	256839.547	0.54	25.4924	0.166	0.651	ug/L
|	Cr	52	223244.458	0.45	25.6533	0.116	0.452	ug/L
|	Cr	53	25177.519	0.05	25.5014	0.586	2.297	ug/L
|	Mn	55	340523.561	0.72	26.5205	0.408	1.539	ug/L
|	Co	59	277990.042	0.58	26.3684	0.647	2.452	ug/L
|	Ni	60	58208.502	0.12	25.9261	0.124	0.478	ug/L
|	Cu	65	59664.746	0.13	25.7186	0.216	0.838	ug/L
|	Zn	66	37846.528	0.08	27.5415	0.165	0.599	ug/L
| >	Ge	72	475223.549	475223.55				ug/L
|	As	75	25420.244	0.05	24.1469	0.609	2.521	ug/L
|	Se	77	1788.160	0.00	22.9024	0.952	4.159	ug/L
|	Se	82	2159.195	0.00	22.6878	0.580	2.557	ug/L
⌊	Rb	85	125.669	0.00				mg/L
	Y	89	293025.487	1427.22				ug/L
	Rh	103	19.667	11.33				ug/L
⌈	Mo	98	53.014	0.00	0.0338	0.001	3.140	ug/L
|	Ag	107	112804.211	0.31	23.7608	0.556	2.338	ug/L
|	Cd	114	27589.630	0.08	25.1500	1.188	4.724	ug/L
| >	In	115	359466.118	359466.12				ug/L
|	Sn	118	358.940	0.00	0.0624	0.004	7.205	ug/L
⌊	Sb	123	93449.885	0.26	24.7550	0.271	1.096	ug/L
⌈	Ba	135	41166.319	0.08	25.1720	0.175	0.696	ug/L
|	Ce	140	70.007	0.00				ug/L
⌊>	Tb	159	499761.632	499761.63				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	190912.110	0.38	25.2471	0.729	2.886	ug/L
|	Tl	205	463345.699	0.93	24.3586	0.936	3.841	ug/L
|	Pb	206	161275.089	0.32	26.3636	0.581	2.203	ug/L
|	Pb	207	141845.147	0.28	25.0693	0.475	1.894	ug/L
|	Pb	208	652245.234	1.30	25.6840	0.430	1.672	ug/L
|	U	238	1220626.569	2.44	25.6798	0.724	2.819	ug/L
⌊>	Bi	209	500094.609	500094.61				ug/L

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⌈	Na	23	193309.738	0.56	0.0274	0.002	8.579	mg/L
|	Mg	24	22724.747	0.08	0.0039	0.000	7.379	mg/L
|	K	39	673074.366	0.32	0.0085	0.001	17.108	mg/L
|	Ca	43	590.076	0.00	0.0173	0.002	10.618	mg/L
|	Fe	54	86415.847	0.12	0.0581	0.005	8.441	mg/L
|	Fe	57	8441.076	0.00	0.0022	0.001	46.703	mg/L
⌊>	Sc-1	45	296053.089	296053.09				mg/L
	Cl	35	33885.340	15028.24				mg/L
	Kr	83	46.334	-8.33				mg/L
	Br	81	9516.531	1325.83				mg/L
	P	31	18314.764	6229.39				mg/L
	S	34	190550.828	-11810.56				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.419			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.150			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.217			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.509			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: L1102000244

Sample Date/Time: Friday, February 18, 2011 14:34:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21807.345	-0.01				ug/L
|	Be	9	6971.098	0.02	23.5187	1.326	5.639	ug/L
|	Al	27	158327.190	0.54	25.4194	0.926	3.643	ug/L
⌊>	Sc	45	285554.097	285554.10				ug/L
⌈	Ti	49	83.342	0.00	0.0851	0.048	56.036	ug/L
|	V	51	259554.577	0.54	25.5931	0.172	0.673	ug/L
|	Cr	52	225960.070	0.46	25.7993	0.025	0.096	ug/L
|	Cr	53	25648.750	0.05	25.8115	0.168	0.650	ug/L
|	Mn	55	332368.340	0.69	25.7112	0.520	2.021	ug/L
|	Co	59	271384.097	0.57	25.5661	0.424	1.659	ug/L
|	Ni	60	57588.727	0.12	25.4757	0.725	2.847	ug/L
|	Cu	65	59324.391	0.12	25.4037	0.387	1.524	ug/L
|	Zn	66	35644.772	0.07	25.7177	0.383	1.488	ug/L
| >	Ge	72	478386.655	478386.65				ug/L
|	As	75	25438.606	0.05	24.0017	0.162	0.676	ug/L
|	Se	77	1756.821	0.00	22.3289	0.307	1.375	ug/L
|	Se	82	2223.253	0.00	23.2014	0.268	1.156	ug/L
⌊	Rb	85	67.001	0.00				mg/L
	Y	89	290587.445	-1010.82				ug/L
	Rh	103	18.000	9.67				ug/L
⌈	Mo	98	32.384	0.00	0.0253	0.003	11.092	ug/L
|	Ag	107	111381.296	0.31	23.5599	0.399	1.693	ug/L
|	Cd	114	27397.701	0.08	25.0818	0.429	1.709	ug/L
| >	In	115	357976.029	357976.03				ug/L
|	Sn	118	333.472	0.00	0.0564	0.004	7.844	ug/L
⌊	Sb	123	92427.497	0.26	24.5947	0.841	3.421	ug/L
⌈	Ba	135	40764.659	0.08	24.5132	0.367	1.497	ug/L
|	Ce	140	56.672	0.00				ug/L
⌊>	Tb	159	508273.585	508273.58				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	193516.595	0.38	25.3372	0.735	2.900	ug/L
|	Tl	205	490699.246	0.97	25.5348	0.542	2.122	ug/L
|	Pb	206	160251.449	0.32	25.9322	0.690	2.661	ug/L
|	Pb	207	140177.659	0.28	24.5313	1.104	4.501	ug/L
|	Pb	208	653272.710	1.29	25.4663	0.737	2.894	ug/L
|	U	238	1226073.445	2.43	25.5336	0.599	2.346	ug/L
⌊>	Bi	209	505450.010	505450.01				ug/L

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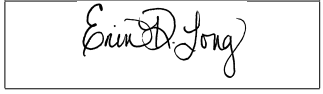

⌈	Na	23	82480.414	0.20	0.0097	0.000	4.686	mg/L
|	Mg	24	3921.162	0.01	-0.0010	0.000	7.210	mg/L
|	K	39	576741.826	0.07	0.0003	0.001	356.597	mg/L
|	Ca	43	340.040	0.00	0.0055	0.003	58.540	mg/L
|	Fe	54	85491.813	0.13	0.0614	0.008	12.519	mg/L
|	Fe	57	8077.409	0.00	0.0020	0.002	119.763	mg/L
⌊>	Sc-1	45	285554.097	285554.10				mg/L
	Cl	35	22456.523	3599.43				mg/L
	Kr	83	41.334	-13.33				mg/L
	Br	81	9084.792	894.10				mg/L
	P	31	18548.915	6463.54				mg/L
	S	34	187561.131	-14800.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.074			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.747			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.856			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.574			
⌈	Na	23					

Sample ID: L1102000244
Report Date/Time: Friday, February 18, 2011 14:36:31

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 18, 2011 14:41:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19903.240	-0.01				ug/L
|	Be	9	13804.859	0.05	49.6747	2.694	5.423	ug/L
|	Al	27	296532.448	1.09	51.4469	3.485	6.775	ug/L
⌊>	Sc	45	268515.766	268515.77				ug/L
⌈	Ti	49	63185.367	0.13	101.6953	3.160	3.108	ug/L
|	V	51	496596.456	1.05	49.9921	0.807	1.614	ug/L
|	Cr	52	416485.703	0.87	49.1616	0.321	0.654	ug/L
|	Cr	53	47423.715	0.10	48.7667	1.825	3.743	ug/L
|	Mn	55	634860.207	1.35	49.9315	0.417	0.834	ug/L
|	Co	59	511267.655	1.09	48.9583	1.557	3.180	ug/L
|	Ni	60	108153.740	0.23	48.6638	1.001	2.056	ug/L
|	Cu	65	112026.597	0.24	48.7995	0.580	1.189	ug/L
|	Zn	66	66090.002	0.14	49.1568	0.474	0.964	ug/L
| >	Ge	72	470817.152	470817.15				ug/L
|	As	75	52126.684	0.11	49.7763	0.208	0.417	ug/L
|	Se	77	3895.425	0.01	51.2225	0.198	0.387	ug/L
|	Se	82	4756.134	0.01	50.3789	0.160	0.318	ug/L
⌊	Rb	85	2054.898	0.00				mg/L
	Y	89	286319.537	-5278.73				ug/L
	Rh	103	27.667	19.33				ug/L
⌈	Mo	98	234352.488	0.67	100.9913	1.641	1.625	ug/L
|	Ag	107	229677.567	0.66	49.8557	1.115	2.236	ug/L
|	Cd	114	53920.853	0.15	50.6411	2.245	4.434	ug/L
| >	In	115	349114.698	349114.70				ug/L
|	Sn	118	191543.600	0.55	49.7272	0.387	0.779	ug/L
⌊	Sb	123	185694.290	0.53	50.6806	0.509	1.005	ug/L
⌈	Ba	135	78851.449	0.16	50.0931	1.176	2.348	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	481306.564	481306.56				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	356513.218	0.75	49.8508	0.467	0.936	ug/L
|	Tl	205	882740.654	1.87	49.0447	1.352	2.756	ug/L
|	Pb	206	291511.546	0.62	50.4470	0.215	0.427	ug/L
|	Pb	207	270227.464	0.57	50.5770	0.459	0.908	ug/L
|	Pb	208	1206395.265	2.55	50.2983	0.520	1.034	ug/L
|	U	238	2215152.128	4.68	49.2879	1.794	3.641	ug/L
⌊>	Bi	209	473111.189	473111.19				ug/L

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⌈	Na	23	27195699.483	101.42	4.9218	0.277	5.621	mg/L
|	Mg	24	17046845.151	63.63	4.9587	0.291	5.861	mg/L
|	K	39	43741471.503	161.18	5.2309	0.187	3.582	mg/L
|	Ca	43	93760.286	0.35	5.1281	0.424	8.274	mg/L
|	Fe	54	3159328.411	11.63	5.1824	0.453	8.744	mg/L
|	Fe	57	1292491.635	4.80	5.1750	0.361	6.973	mg/L
⌊>	Sc-1	45	268515.766	268515.77				mg/L
	Cl	35	18373.540	-483.56				mg/L
	Kr	83	46.001	-8.67				mg/L
	Br	81	7659.601	-531.10				mg/L
	P	31	10296.683	-1788.69				mg/L
	S	34	196882.299	-5479.09				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	99.984				
|	Cr	52	98.323				
|	Cr	53					
|	Mn	55	99.863				
|	Co	59	97.917				
|	Ni	60	97.328				
|	Cu	65	97.599				
|	Zn	66	98.314				
|>	Ge	72		97.506			
|	As	75	99.553				
|	Se	77					
|	Se	82	100.758				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	99.711				
|	Cd	114	101.282				
|>	In	115		94.352			
|	Sn	118					
⌊	Sb	123	101.361				
⌈	Ba	135	100.186				
|	Ce	140					
⌊>	Tb	159		92.664			
⌈	Ho	165					
|	Tl	203	99.702				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.597				
|	U	238	98.576				
⌊>	Bi	209		94.140			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 14:43:18

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
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Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 18, 2011 14:48:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19903.193	-0.01				ug/L
|	Be	9	8.667	0.00	-0.0381	0.010	27.129	ug/L
|	Al	27	3717.359	-0.00	-0.0776	0.030	38.180	ug/L
⌊>	Sc	45	278936.912	278936.91				ug/L
⌈	Ti	49	46.671	-0.00	0.0276	0.049	178.511	ug/L
|	V	51	2456.247	0.00	-0.0068	0.008	124.636	ug/L
|	Cr	52	8260.160	0.00	0.0114	0.014	124.094	ug/L
|	Cr	53	236.693	-0.00	-0.0771	0.046	59.530	ug/L
|	Mn	55	371.344	0.00	-0.0037	0.002	50.835	ug/L
|	Co	59	59.667	0.00	-0.0180	0.001	6.122	ug/L
|	Ni	60	52.001	-0.00	-0.0303	0.006	20.025	ug/L
|	Cu	65	116.669	0.00	-0.0174	0.004	23.972	ug/L
|	Zn	66	796.373	0.00	-0.2089	0.032	15.240	ug/L
|>	Ge	72	478171.326	478171.33				ug/L
|	As	75	-153.563	0.00	0.0391	0.013	33.102	ug/L
|	Se	77	58.000	-0.00	0.0344	0.150	435.643	ug/L
|	Se	82	1.626	0.00	0.0652	0.021	32.275	ug/L
⌊	Rb	85	24.000	0.00				mg/L
	Y	89	300471.976	8873.71				ug/L
	Rh	103	9.000	0.67				ug/L
⌈	Mo	98	113.056	0.00	0.0591	0.007	11.041	ug/L
|	Ag	107	32.000	-0.00	-0.0320	0.001	3.710	ug/L
|	Cd	114	1.004	0.00	-0.0053	0.004	68.590	ug/L
|>	In	115	357967.954	357967.95				ug/L
|	Sn	118	271.070	0.00	0.0405	0.005	11.631	ug/L
⌊	Sb	123	72.950	-0.00	-0.0086	0.003	30.703	ug/L
⌈	Ba	135	18.000	0.00	-0.0011	0.002	213.267	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	494330.323	494330.32				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	98.668	0.00	0.0086	0.001	11.494	ug/L
|	Tl	205	233.359	0.00	0.0308	0.001	4.654	ug/L
|	Pb	206	415.346	0.00	-0.0117	0.003	28.415	ug/L
|	Pb	207	346.343	-0.00	-0.0293	0.005	18.708	ug/L
|	Pb	208	1644.070	-0.00	-0.0158	0.003	19.200	ug/L
|	U	238	128.002	0.00	-0.0122	0.000	2.367	ug/L
⌊>	Bi	209	506312.711	506312.71				ug/L

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⌈	Na	23	23229.292	-0.01	-0.0003	0.000	41.853	mg/L
|	Mg	24	483.394	0.00	-0.0019	0.000	0.951	mg/L
|	K	39	547474.077	0.01	-0.0016	0.000	26.466	mg/L
|	Ca	43	206.689	0.00	-0.0011	0.000	24.026	mg/L
|	Fe	54	46942.598	-0.00	0.0030	0.001	43.574	mg/L
|	Fe	57	7346.768	0.00	-0.0002	0.001	486.816	mg/L
⌊>	Sc-1	45	278936.912	278936.91				mg/L
	Cl	35	18521.143	-335.95				mg/L
	Kr	83	43.001	-11.67				mg/L
	Br	81	8081.267	-109.43				mg/L
	P	31	11467.906	-617.47				mg/L
	S	34	202674.445	313.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.029			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.745			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.171			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.746			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 18, 2011 14:50:32

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 18, 2011 14:50:32
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Approved: February 21, 2011

Data not used - analyzed out of turn.

Method 6020 - Summary Report

Sample ID: PBS 58 WG356891-02

Sample Date/Time: Friday, February 18, 2011 14:55:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20220.556	-0.01				ug/L
|	Be	9	5.333	-0.00	-0.0506	0.019	36.815	ug/L
|	Al	27	35395.885	0.11	5.0107	0.058	1.167	ug/L
⌊>	Sc	45	291660.039	291660.04				ug/L
⌈	Ti	49	103.344	0.00	0.1167	0.010	8.497	ug/L
|	V	51	2253.740	-0.00	-0.0279	0.054	194.250	ug/L
|	Cr	52	9549.320	0.00	0.1610	0.027	16.735	ug/L
|	Cr	53	423.385	0.00	0.1121	0.029	26.159	ug/L
|	Mn	55	2879.110	0.01	0.1901	0.007	3.757	ug/L
|	Co	59	161.003	0.00	-0.0085	0.001	8.348	ug/L
|	Ni	60	331.009	0.00	0.0930	0.006	6.178	ug/L
|	Cu	65	715.366	0.00	0.2389	0.017	7.069	ug/L
|	Zn	66	4110.553	0.01	2.2490	0.085	3.770	ug/L
|>	Ge	72	479600.406	479600.41				ug/L
|	As	75	-153.201	0.00	0.0395	0.046	115.646	ug/L
|	Se	77	60.667	-0.00	0.0662	0.182	275.099	ug/L
|	Se	82	2.583	0.00	0.0745	0.062	83.584	ug/L
⌊	Rb	85	106.668	0.00				mg/L
	Y	89	299725.175	8126.91				ug/L
	Rh	103	8.000	-0.33				ug/L
⌈	Mo	98	161.870	0.00	0.0782	0.005	6.214	ug/L
|	Ag	107	77.668	-0.00	-0.0227	0.001	4.410	ug/L
|	Cd	114	-1.068	-0.00	-0.0072	0.003	39.967	ug/L
|>	In	115	366375.756	366375.76				ug/L
|	Sn	118	579.883	0.00	0.1154	0.004	3.752	ug/L
⌊	Sb	123	78.910	-0.00	-0.0075	0.002	29.048	ug/L
⌈	Ba	135	117.002	0.00	0.0584	0.003	5.572	ug/L
|	Ce	140	210.023	0.00				ug/L
⌊>	Tb	159	506262.968	506262.97				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	280.341	0.00	0.0321	0.018	56.686	ug/L
|	Tl	205	593.415	0.00	0.0492	0.019	38.353	ug/L
|	Pb	206	496.684	0.00	0.0013	0.003	230.672	ug/L
|	Pb	207	452.348	0.00	-0.0108	0.004	36.049	ug/L
|	Pb	208	2025.101	0.00	-0.0010	0.003	286.599	ug/L
|	U	238	148.003	0.00	-0.0118	0.000	3.917	ug/L
⌊>	Bi	209	506646.089	506646.09				ug/L

Sample ID: PBS 58 WG356891-02
Report Date/Time: Friday, February 18, 2011 14:57:40
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Data not used - analyzed out of turn.

Na	23	154500.596	0.44	0.0214	0.001	6.616	mg/L	
Mg	24	12592.519	0.04	0.0013	0.000	4.362	mg/L	
K	39	612180.742	0.15	0.0029	0.000	13.392	mg/L	
Ca	43	540.069	0.00	0.0153	0.005	33.220	mg/L	
Fe	54	87099.172	0.13	0.0611	0.003	5.608	mg/L	
Fe	57	9131.752	0.01	0.0052	0.002	32.045	mg/L	
Sc-1	45	291660.039	291660.04				mg/L	
Cl	35	34225.136	15368.04				mg/L	
Kr	83	48.001	-6.67				mg/L	
Br	81	9205.569	1014.87				mg/L	
P	31	19348.749	7263.37				mg/L	
S	34	199507.139	-2854.25				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		99.325			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		99.017			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		97.469			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		100.812			
Na	23					

Sample ID: PBS 58 WG356891-02
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Data not used - analyzed out of turn.

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 58 WG356891-02
Report Date/Time: Friday, February 18, 2011 14:57:40
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Approved: February 21, 2011

Data not used - analyzed out of turn.

Method 6020 - Summary Report

Sample ID: LCSS 58 WG356891-03

Sample Date/Time: Friday, February 18, 2011 15:02:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23293.889	-0.01				ug/L
|	Be	9	7242.627	0.02	22.9029	0.734	3.203	ug/L
|	Al	27	170186.471	0.54	25.6455	0.955	3.723	ug/L
⌊>	Sc	45	304330.187	304330.19				ug/L
⌈	Ti	49	170.020	0.00	0.2177	0.299	137.140	ug/L
|	V	51	263035.894	0.53	25.4257	0.764	3.007	ug/L
|	Cr	52	233068.432	0.46	26.0983	0.507	1.942	ug/L
|	Cr	53	25969.607	0.05	25.6187	0.425	1.659	ug/L
|	Mn	55	339480.963	0.69	25.7448	0.353	1.371	ug/L
|	Co	59	274587.307	0.56	25.3599	0.284	1.119	ug/L
|	Ni	60	59023.600	0.12	25.5997	0.217	0.848	ug/L
|	Cu	65	61138.615	0.13	25.6633	0.173	0.673	ug/L
|	Zn	66	36077.662	0.07	25.5080	0.253	0.991	ug/L
⌊>	Ge	72	488012.548	488012.55				ug/L
|	As	75	24940.544	0.05	23.0763	0.222	0.961	ug/L
|	Se	77	1795.495	0.00	22.3760	1.338	5.980	ug/L
|	Se	82	2131.129	0.00	21.8063	0.216	0.988	ug/L
⌊	Rb	85	63.668	0.00				mg/L
	Y	89	297019.253	5420.98				ug/L
	Rh	103	17.334	9.00				ug/L
⌈	Mo	98	51.279	0.00	0.0325	0.002	6.505	ug/L
|	Ag	107	84523.906	0.23	17.2387	0.377	2.185	ug/L
|	Cd	114	26857.183	0.07	23.7228	0.272	1.148	ug/L
⌊>	In	115	371043.952	371043.95				ug/L
|	Sn	118	240.270	0.00	0.0305	0.003	8.813	ug/L
⌊	Sb	123	92852.223	0.25	23.8307	0.319	1.338	ug/L
⌈	Ba	135	41410.674	0.08	24.3197	0.553	2.273	ug/L
|	Ce	140	106.678	0.00				ug/L
⌊>	Tb	159	520572.794	520572.79				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	193255.998	0.36	24.1010	0.511	2.120	ug/L
|	Tl	205	486798.232	0.92	24.1288	1.121	4.647	ug/L
|	Pb	206	166393.299	0.31	25.6511	0.909	3.542	ug/L
|	Pb	207	145063.674	0.27	24.1782	0.922	3.814	ug/L
|	Pb	208	674884.120	1.27	25.0622	0.873	3.485	ug/L
|	U	238	1280428.208	2.41	25.3996	0.441	1.737	ug/L
⌊>	Bi	209	530497.016	530497.02				ug/L

Sample ID: LCSS 58 WG356891-03
Report Date/Time: Friday, February 18, 2011 15:04:27
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Approved: February 21, 2011

Erin D. Long

Data not used - analyzed out of turn.

Na	23	72304.433	0.15	0.0072	0.000	1.356	mg/L
Mg	24	9732.378	0.03	0.0004	0.000	24.315	mg/L
K	39	550015.009	-0.14	-0.0066	0.002	24.387	mg/L
Ca	43	436.720	0.00	0.0092	0.003	32.643	mg/L
Fe	54	87333.055	0.12	0.0559	0.004	7.845	mg/L
Fe	57	7880.559	0.00	-0.0006	0.001	144.621	mg/L
Sc-1	45	304330.187	304330.19				mg/L
Cl	35	30097.905	11240.81				mg/L
Kr	83	53.334	-1.33				mg/L
Br	81	8687.774	497.08				mg/L
P	31	20224.623	8139.25				mg/L
S	34	197766.013	-4595.38				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.067			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		100.279			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		100.224			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		105.558			
Na	23					

Sample ID: LCSS 58 WG356891-03
Report Date/Time: Friday, February 18, 2011 15:04:27
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Approved: February 21, 2011

Data not used - analyzed out of turn.

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 58 WG356891-03
Report Date/Time: Friday, February 18, 2011 15:04:27
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Data not used - analyzed out of turn.

Method 6020 - Summary Report

Sample ID: L1102044701 WG356891-01

Sample Date/Time: Friday, February 18, 2011 15:09:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21924.071	-0.01				ug/L
|	Be	9	68.667	0.00	0.1509	0.025	16.440	ug/L
|	Al	27	11982745.664	39.51	1860.7815	64.069	3.443	ug/L
⌊>	Sc	45	303298.798	303298.80				ug/L
⌈	Ti	49	7420.166	0.01	11.2836	0.691	6.126	ug/L
|	V	51	97334.127	0.19	9.0851	0.018	0.198	ug/L
|	Cr	52	42155.427	0.07	3.8433	0.041	1.072	ug/L
|	Cr	53	4308.027	0.01	3.9095	0.196	5.002	ug/L
|	Mn	55	4494969.433	3.05	335.3860	3.105	0.926	ug/L
|	Co	59	43279.565	0.09	3.9080	0.050	1.284	ug/L
|	Ni	60	5438.200	0.01	2.2696	0.059	2.618	ug/L
|	Cu	65	8811.969	0.02	3.5774	0.065	1.810	ug/L
|	Zn	66	12036.361	0.02	7.8248	0.169	2.155	ug/L
⌊>	Ge	72	496577.782	496577.78				ug/L
|	As	75	1268.875	0.00	1.3271	0.077	5.796	ug/L
|	Se	77	94.667	0.00	0.4687	0.186	39.728	ug/L
|	Se	82	13.490	0.00	0.1829	0.145	79.273	ug/L
⌊	Rb	85	31768.032	0.06				mg/L
	Y	89	376872.098	85273.83				ug/L
	Rh	103	13.333	5.00				ug/L
⌈	Mo	98	299.619	0.00	0.1330	0.008	5.705	ug/L
|	Ag	107	99.001	-0.00	-0.0186	0.002	11.006	ug/L
|	Cd	114	20.551	0.00	0.0119	0.001	7.040	ug/L
⌊>	In	115	371567.752	371567.75				ug/L
|	Sn	118	177.068	0.00	0.0150	0.004	25.254	ug/L
⌊	Sb	123	45.991	-0.00	-0.0162	0.001	6.541	ug/L
⌈	Ba	135	38325.018	0.08	23.3099	0.288	1.236	ug/L
|	Ce	140	567532.637	1.13				ug/L
⌊>	Tb	159	502498.062	502498.06				ug/L
⌈	Ho	165	4731.594	0.01				ug/L
|	Tl	203	452.015	0.00	0.0544	0.003	5.624	ug/L
|	Tl	205	1056.828	0.00	0.0733	0.006	8.807	ug/L
|	Pb	206	39219.552	0.08	6.2346	0.147	2.352	ug/L
|	Pb	207	31640.975	0.06	5.4224	0.153	2.814	ug/L
|	Pb	208	150747.062	0.29	5.7666	0.030	0.512	ug/L
|	U	238	13815.012	0.03	0.2707	0.008	2.922	ug/L
⌊>	Bi	209	509387.195	509387.20				ug/L

Sample ID: L1102044701 WG356891-01
Report Date/Time: Friday, February 18, 2011 15:11:15
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Data not used - analyzed out of turn.

Na	23	43328.139	0.05	0.0026	0.000	16.801	mg/L
Mg	24	932458.922	3.07	0.2377	0.008	3.426	mg/L
K	39	1775523.003	3.90	0.1248	0.001	0.612	mg/L
Ca	43	6119.153	0.02	0.2841	0.016	5.695	mg/L
Fe	54	3939282.698	12.82	5.7105	0.054	0.951	mg/L
Fe	57	1607097.506	5.27	5.6860	0.086	1.511	mg/L
Sc-1	45	303298.798	303298.80				mg/L
Cl	35	22053.631	3196.54				mg/L
Kr	83	58.667	4.00				mg/L
Br	81	8566.337	375.64				mg/L
P	31	59008.944	46923.57				mg/L
S	34	189310.594	-13050.80				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		102.841			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		100.421			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		96.744			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.358			
Na	23					

Sample ID: L1102044701 WG356891-01
Report Date/Time: Friday, February 18, 2011 15:11:15
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Erin D. Long

Data not used - analyzed out of turn.

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1102044701 WG356891-01
Report Date/Time: Friday, February 18, 2011 15:11:15
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Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: PBW 53 WG356756-02

Sample Date/Time: Friday, February 18, 2011 15:20:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21322.717	-0.01				ug/L
|	Be	9	7.333	0.00	-0.0452	0.013	29.406	ug/L
|	Al	27	17932.869	0.04	2.0064	0.275	13.731	ug/L
⌊>	Sc	45	311201.975	311201.98				ug/L
⌈	Ti	49	93.343	0.00	0.0942	0.058	61.232	ug/L
|	V	51	2645.147	0.00	-0.0010	0.011	1117.151	ug/L
|	Cr	52	10102.869	0.00	0.1704	0.015	8.728	ug/L
|	Cr	53	356.709	0.00	0.0272	0.072	264.434	ug/L
|	Mn	55	2920.456	0.01	0.1827	0.005	2.930	ug/L
|	Co	59	104.668	0.00	-0.0143	0.001	8.739	ug/L
|	Ni	60	194.337	0.00	0.0285	0.010	33.646	ug/L
|	Cu	65	272.340	0.00	0.0436	0.010	23.504	ug/L
|	Zn	66	4824.879	0.01	2.6116	0.054	2.079	ug/L
| >	Ge	72	503134.604	503134.60				ug/L
|	As	75	-169.508	0.00	0.0321	0.051	157.842	ug/L
|	Se	77	73.334	0.00	0.1870	0.131	70.206	ug/L
|	Se	82	8.951	0.00	0.1368	0.092	67.565	ug/L
⌊	Rb	85	52.001	0.00				mg/L
	Y	89	311102.671	19504.40				ug/L
	Rh	103	9.333	1.00				ug/L
⌈	Mo	98	35.050	0.00	0.0252	0.002	8.334	ug/L
|	Ag	107	33.667	-0.00	-0.0322	0.001	1.847	ug/L
|	Cd	114	-0.342	-0.00	-0.0065	0.002	26.345	ug/L
| >	In	115	388450.813	388450.81				ug/L
|	Sn	118	457.077	0.00	0.0786	0.002	1.994	ug/L
⌊	Sb	123	71.159	-0.00	-0.0106	0.002	21.006	ug/L
⌈	Ba	135	96.668	0.00	0.0418	0.003	6.368	ug/L
|	Ce	140	740.101	0.00				ug/L
⌊>	Tb	159	546994.177	546994.18				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	53.001	0.00	0.0019	0.001	69.931	ug/L
|	Tl	205	160.017	0.00	0.0261	0.002	8.402	ug/L
|	Pb	206	542.354	0.00	-0.0000	0.006	13222.941	ug/L
|	Pb	207	466.016	0.00	-0.0167	0.002	11.929	ug/L
|	Pb	208	2149.112	0.00	-0.0046	0.004	79.608	ug/L
|	U	238	79.668	0.00	-0.0134	0.000	2.580	ug/L
⌊>	Bi	209	563567.460	563567.46				ug/L

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Na	23	60891.119	0.10	0.0052	0.000	6.531	mg/L	
Mg	24	8524.490	0.03	0.0001	0.000	117.478	mg/L	
K	39	551053.971	-0.18	-0.0078	0.001	10.509	mg/L	
Ca	43	573.407	0.00	0.0151	0.002	14.987	mg/L	
Fe	54	107769.944	0.18	0.0823	0.006	7.572	mg/L	
Fe	57	8848.133	0.00	0.0021	0.001	41.071	mg/L	
> Sc-1	45	311201.975	311201.98				mg/L	
Cl	35	26196.941	7339.84				mg/L	
Kr	83	44.001	-10.67				mg/L	
Br	81	9703.374	1512.68				mg/L	
P	31	26873.592	14788.22				mg/L	
S	34	208650.278	6288.88				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		104.199			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		104.983			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.311			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		112.138			
Na	23					

Sample ID: PBW 53 WG356756-02
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 53 WG356756-02
Report Date/Time: Friday, February 18, 2011 15:22:14
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Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: LCSW 53 WG356756-03

Sample Date/Time: Friday, February 18, 2011 15:26:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24981.790	-0.00				ug/L
|	Be	9	7715.649	0.02	24.0368	1.487	6.186	ug/L
|	Al	27	175832.710	0.55	26.0838	0.363	1.392	ug/L
⌊>	Sc	45	309157.468	309157.47				ug/L
⌈	Ti	49	86.676	0.00	0.0854	0.059	68.959	ug/L
|	V	51	278626.251	0.55	26.3727	0.395	1.498	ug/L
|	Cr	52	247538.755	0.48	27.1707	0.649	2.390	ug/L
|	Cr	53	27884.991	0.06	26.9377	0.956	3.549	ug/L
|	Mn	55	358198.190	0.72	26.5923	0.601	2.259	ug/L
|	Co	59	296543.368	0.59	26.8117	0.371	1.385	ug/L
|	Ni	60	62787.554	0.13	26.6587	0.629	2.359	ug/L
|	Cu	65	62454.556	0.13	25.6684	1.119	4.359	ug/L
|	Zn	66	45677.212	0.09	31.8066	0.182	0.573	ug/L
|>	Ge	72	498517.908	498517.91				ug/L
|	As	75	26235.300	0.05	23.7566	0.039	0.166	ug/L
|	Se	77	1874.843	0.00	22.8812	1.175	5.134	ug/L
|	Se	82	2185.840	0.00	21.8953	0.282	1.287	ug/L
⌊	Rb	85	53.001	0.00				mg/L
	Y	89	309542.967	17944.70				ug/L
	Rh	103	16.667	8.33				ug/L
⌈	Mo	98	47.795	0.00	0.0306	0.001	3.207	ug/L
|	Ag	107	123549.879	0.32	24.6107	0.725	2.948	ug/L
|	Cd	114	28865.309	0.08	24.8758	0.587	2.362	ug/L
|>	In	115	380195.664	380195.66				ug/L
|	Sn	118	315.605	0.00	0.0471	0.001	2.694	ug/L
⌊	Sb	123	97782.938	0.26	24.4938	0.373	1.525	ug/L
⌈	Ba	135	45168.901	0.08	25.1297	0.298	1.186	ug/L
|	Ce	140	126.680	0.00				ug/L
⌊>	Tb	159	549341.658	549341.66				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	216935.554	0.39	25.7665	1.096	4.255	ug/L
|	Tl	205	550445.403	0.99	25.9860	1.077	4.146	ug/L
|	Pb	206	185507.399	0.33	27.2330	0.994	3.651	ug/L
|	Pb	207	161364.420	0.29	25.6039	0.749	2.926	ug/L
|	Pb	208	745888.562	1.34	26.3672	0.538	2.040	ug/L
|	U	238	1433157.273	2.57	27.0541	0.108	0.400	ug/L
⌊>	Bi	209	557380.640	557380.64				ug/L

Sample ID: LCSW 53 WG356756-03
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⌈	Na	23	116101.645	0.28	0.0139	0.000	3.091	mg/L
|	Mg	24	32623.076	0.10	0.0062	0.000	6.053	mg/L
|	K	39	592347.202	-0.03	-0.0031	0.001	41.878	mg/L
|	Ca	43	900.131	0.00	0.0308	0.003	10.894	mg/L
|	Fe	54	102837.639	0.16	0.0762	0.006	7.430	mg/L
|	Fe	57	8107.439	0.00	-0.0003	0.001	433.266	mg/L
⌊>	Sc-1	45	309157.468	309157.47				mg/L
	Cl	35	26896.795	8039.70				mg/L
	Kr	83	49.667	-5.00				mg/L
	Br	81	9475.154	1284.46				mg/L
	P	31	26585.434	14500.06				mg/L
	S	34	198439.432	-3921.96				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.243			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.752			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.762			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.907			
⌈	Na	23					

Sample ID: LCSW 53 WG356756-03
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 53 WG356756-03
Report Date/Time: Friday, February 18, 2011 15:28:59
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Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: L1102039701 WG356756-04

Sample Date/Time: Friday, February 18, 2011 15:33:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26200.969	0.00				ug/L
|	Be	9	6.667	-0.00	-0.0480	0.012	25.355	ug/L
|	Al	27	109161.296	0.33	15.3992	0.652	4.236	ug/L
|>	Sc	45	319048.553	319048.55				ug/L
⌈	Ti	49	446.721	0.00	0.6522	0.084	12.916	ug/L
|	V	51	36861.170	0.07	3.3685	0.023	0.671	ug/L
|	Cr	52	24778.586	0.03	1.9272	0.032	1.641	ug/L
|	Cr	53	2383.856	0.00	2.0775	0.070	3.348	ug/L
|	Mn	55	9795.239	0.02	0.7155	0.036	5.035	ug/L
|	Co	59	424.013	0.00	0.0158	0.002	13.053	ug/L
|	Ni	60	1635.484	0.00	0.6622	0.044	6.592	ug/L
|	Cu	65	791.041	0.00	0.2667	0.104	38.852	ug/L
|	Zn	66	8289.197	0.02	5.2774	0.385	7.289	ug/L
|>	Ge	72	485042.726	485042.73				ug/L
|	As	75	868.069	0.00	0.9848	0.034	3.484	ug/L
|	Se	77	111.334	0.00	0.7134	0.064	9.014	ug/L
|	Se	82	66.285	0.00	0.7288	0.053	7.256	ug/L
⌊	Rb	85	6807.051	0.01				mg/L
	Y	89	293924.955	2326.69				ug/L
	Rh	103	69.001	60.67				ug/L
⌈	Mo	98	4259.146	0.01	1.6785	0.067	3.985	ug/L
|	Ag	107	63.001	-0.00	-0.0263	0.002	5.834	ug/L
|	Cd	114	11.740	0.00	0.0037	0.004	107.288	ug/L
|>	In	115	384730.471	384730.47				ug/L
|	Sn	118	1626.935	0.00	0.3548	0.057	16.109	ug/L
⌊	Sb	123	401.336	0.00	0.0717	0.013	18.752	ug/L
⌈	Ba	135	39255.625	0.07	21.6350	0.582	2.689	ug/L
|	Ce	140	403.382	0.00				ug/L
|>	Tb	159	554705.928	554705.93				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	71.001	0.00	0.0044	0.000	1.204	ug/L
|	Tl	205	170.019	0.00	0.0270	0.002	8.915	ug/L
|	Pb	206	823.375	0.00	0.0464	0.002	3.780	ug/L
|	Pb	207	691.031	0.00	0.0239	0.002	7.934	ug/L
|	Pb	208	3243.574	0.00	0.0390	0.004	9.162	ug/L
|	U	238	17988.684	0.03	0.3371	0.013	3.899	ug/L
|>	Bi	209	538286.928	538286.93				ug/L

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⌈	Na	23	50724106.932	159.16	7.7238	0.535	6.921	mg/L
|	Mg	24	7773020.331	24.39	1.8996	0.086	4.538	mg/L
|	K	39	8571000.589	24.92	0.8073	0.017	2.130	mg/L
|	Ca	43	269976.790	0.85	12.4124	0.388	3.125	mg/L
|	Fe	54	124002.479	0.22	0.1013	0.008	7.598	mg/L
|	Fe	57	27470.751	0.06	0.0646	0.014	21.699	mg/L
⌊>	Sc-1	45	319048.553	319048.55				mg/L
	Cl	35	166953.483	148096.39				mg/L
	Kr	83	44.001	-10.67				mg/L
	Br	81	23011.781	14821.08				mg/L
	P	31	28904.223	16818.85				mg/L
	S	34	423868.946	221507.55				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.452			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.978			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.795			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.108			
⌈	Na	23					

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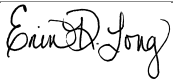

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102039701S WG356756-10

Sample Date/Time: Friday, February 18, 2011 15:40:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27203.870	0.00				ug/L
|	Be	9	8057.247	0.03	24.5765	0.850	3.458	ug/L
|	Al	27	233649.063	0.72	34.1480	0.481	1.409	ug/L
⌊>	Sc	45	315706.510	315706.51				ug/L
⌈	Ti	49	423.385	0.00	0.6232	0.032	5.149	ug/L
|	V	51	313633.287	0.65	30.9343	0.249	0.806	ug/L
|	Cr	52	251256.076	0.51	28.7563	0.396	1.377	ug/L
|	Cr	53	28416.493	0.06	28.5943	0.503	1.759	ug/L
|	Mn	55	389101.361	0.81	30.0651	0.285	0.948	ug/L
|	Co	59	291173.996	0.61	27.3966	0.702	2.561	ug/L
|	Ni	60	63104.449	0.13	27.8869	0.176	0.630	ug/L
|	Cu	65	63333.281	0.13	27.0852	0.433	1.599	ug/L
|	Zn	66	40093.287	0.08	28.9843	0.299	1.031	ug/L
| >	Ge	72	479033.150	479033.15				ug/L
|	As	75	26508.526	0.06	24.9697	0.393	1.574	ug/L
|	Se	77	1768.823	0.00	22.4561	0.634	2.825	ug/L
|	Se	82	2192.898	0.00	22.8563	0.257	1.123	ug/L
⌊	Rb	85	6772.362	0.01				mg/L
	Y	89	288276.428	-3321.84				ug/L
	Rh	103	90.335	82.00				ug/L
⌈	Mo	98	4248.850	0.01	1.6404	0.027	1.649	ug/L
|	Ag	107	120252.543	0.31	23.2117	0.980	4.220	ug/L
|	Cd	114	28893.383	0.07	24.1354	0.303	1.255	ug/L
| >	In	115	392385.960	392385.96				ug/L
|	Sn	118	462.411	0.00	0.0788	0.005	6.448	ug/L
⌊	Sb	123	98086.361	0.25	23.8035	0.234	0.984	ug/L
⌈	Ba	135	83787.392	0.15	46.0453	1.679	3.646	ug/L
|	Ce	140	390.047	0.00				ug/L
⌊>	Tb	159	556660.116	556660.12				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	211220.958	0.39	26.0374	0.374	1.435	ug/L
|	Tl	205	521221.269	0.97	25.5400	0.662	2.591	ug/L
|	Pb	206	177543.706	0.33	27.0540	0.138	0.512	ug/L
|	Pb	207	156835.322	0.29	25.8422	0.597	2.310	ug/L
|	Pb	208	725696.796	1.35	26.6385	0.219	0.821	ug/L
|	U	238	1413286.894	2.63	27.7169	0.923	3.331	ug/L
⌊>	Bi	209	536600.006	536600.01				ug/L

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⌈	Na	23	51287958.721	162.39	7.8804	0.143	1.819	mg/L
|	Mg	24	7751279.793	24.55	1.9122	0.036	1.897	mg/L
|	K	39	8570567.505	25.20	0.8162	0.017	2.098	mg/L
|	Ca	43	276131.634	0.87	12.8228	0.318	2.479	mg/L
|	Fe	54	112898.914	0.19	0.0873	0.002	2.557	mg/L
|	Fe	57	24332.003	0.05	0.0545	0.002	3.391	mg/L
⌊>	Sc-1	45	315706.510	315706.51				mg/L
	Cl	35	117237.913	98380.82				mg/L
	Kr	83	43.001	-11.67				mg/L
	Br	81	21803.096	13612.40				mg/L
	P	31	26486.420	14401.04				mg/L
	S	34	435128.949	232767.56				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.208			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.047			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.171			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		106.772			
⌈	Na	23					

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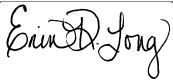

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102039701S WG356756-10
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Method 6020 - Summary Report

Sample ID: L1102039701SD WG356756-11

Sample Date/Time: Friday, February 18, 2011 15:47:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27922.351	0.00				ug/L
|	Be	9	8642.402	0.03	25.8658	1.652	6.387	ug/L
|	Al	27	239075.960	0.73	34.3041	2.562	7.468	ug/L
⌊>	Sc	45	322265.925	322265.93				ug/L
⌈	Ti	49	403.382	0.00	0.5904	0.081	13.661	ug/L
|	V	51	314746.434	0.65	31.0183	0.912	2.941	ug/L
|	Cr	52	258547.300	0.52	29.5894	0.575	1.944	ug/L
|	Cr	53	29576.639	0.06	29.7487	0.917	3.082	ug/L
|	Mn	55	365401.006	0.76	28.1936	0.972	3.448	ug/L
|	Co	59	299507.191	0.62	28.1455	1.105	3.926	ug/L
|	Ni	60	63686.663	0.13	28.1131	0.969	3.446	ug/L
|	Cu	65	64900.761	0.14	27.7298	0.967	3.486	ug/L
|	Zn	66	39295.133	0.08	28.3598	0.301	1.061	ug/L
⌊>	Ge	72	479538.956	479538.96				ug/L
|	As	75	27182.455	0.06	25.5727	0.739	2.890	ug/L
|	Se	77	1922.852	0.00	24.4569	1.959	8.011	ug/L
|	Se	82	2230.921	0.00	23.2264	1.102	4.746	ug/L
⌊	Rb	85	6911.124	0.01				mg/L
	Y	89	286800.474	-4797.80				ug/L
	Rh	103	77.001	68.67				ug/L
⌈	Mo	98	4375.797	0.01	1.6645	0.048	2.875	ug/L
|	Ag	107	123506.503	0.31	23.4808	0.519	2.210	ug/L
|	Cd	114	30295.667	0.08	24.9378	0.762	3.057	ug/L
⌊>	In	115	398139.556	398139.56				ug/L
|	Sn	118	229.469	0.00	0.0241	0.002	7.100	ug/L
⌊	Sb	123	101148.615	0.25	24.1874	0.338	1.396	ug/L
⌈	Ba	135	86769.398	0.15	46.3874	0.787	1.697	ug/L
|	Ce	140	333.372	0.00				ug/L
⌊>	Tb	159	571787.792	571787.79				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	224964.664	0.41	27.1796	0.497	1.830	ug/L
|	Tl	205	543658.148	0.99	26.1078	1.203	4.609	ug/L
|	Pb	206	188112.762	0.34	28.0963	0.894	3.183	ug/L
|	Pb	207	165986.357	0.30	26.8046	0.653	2.438	ug/L
|	Pb	208	760091.859	1.39	27.3468	0.667	2.440	ug/L
|	U	238	1451034.968	2.65	27.8869	0.226	0.810	ug/L
⌊>	Bi	209	547512.809	547512.81				ug/L

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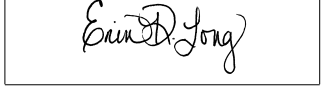

⌈	Na	23	55183798.681	171.46	8.3210	0.570	6.855	mg/L
|	Mg	24	8195593.189	25.47	1.9835	0.111	5.575	mg/L
|	K	39	8885040.535	25.66	0.8310	0.050	6.000	mg/L
|	Ca	43	279983.935	0.87	12.7542	0.736	5.770	mg/L
|	Fe	54	116204.525	0.19	0.0891	0.017	19.514	mg/L
|	Fe	57	26337.617	0.06	0.0600	0.015	24.397	mg/L
⌊>	Sc-1	45	322265.925	322265.93				mg/L
	Cl	35	152479.843	133622.75				mg/L
	Kr	83	41.334	-13.33				mg/L
	Br	81	22093.058	13902.36				mg/L
	P	31	29519.763	17434.39				mg/L
	S	34	437892.354	235530.96				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.312			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.602			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.084			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.944			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102039701PS WG356798-03

Sample Date/Time: Friday, February 18, 2011 15:53:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30396.257	0.02				ug/L
|	Be	9	17369.757	0.06	53.9068	3.645	6.762	ug/L
|	Al	27	413312.519	1.32	61.9643	5.991	9.668	ug/L
|>	Sc	45	311101.249	311101.25				ug/L
⌈	Ti	49	840.131	0.00	1.2782	0.916	71.659	ug/L
|	V	51	594736.030	1.23	58.6925	1.272	2.167	ug/L
|	Cr	52	492208.839	1.01	57.0711	0.944	1.655	ug/L
|	Cr	53	56923.968	0.12	57.4109	1.668	2.905	ug/L
|	Mn	55	735824.162	1.53	56.7004	0.459	0.809	ug/L
|	Co	59	598803.620	1.25	56.1821	0.557	0.991	ug/L
|	Ni	60	129657.250	0.27	57.1634	0.706	1.235	ug/L
|	Cu	65	127532.349	0.27	54.4346	0.434	0.798	ug/L
|	Zn	66	70565.151	0.15	51.4530	0.725	1.409	ug/L
|>	Ge	72	480604.541	480604.54				ug/L
|	As	75	53264.640	0.11	49.8304	1.084	2.176	ug/L
|	Se	77	3607.317	0.01	46.3974	0.840	1.809	ug/L
|	Se	82	4356.313	0.01	45.2138	1.941	4.292	ug/L
⌊	Rb	85	6845.412	0.01				mg/L
	Y	89	293578.146	1979.88				ug/L
	Rh	103	93.668	85.33				ug/L
⌈	Mo	98	4415.257	0.01	1.6454	0.034	2.044	ug/L
|	Ag	107	255829.383	0.63	47.6972	1.296	2.718	ug/L
|	Cd	114	60048.333	0.15	48.4335	3.477	7.178	ug/L
|>	In	115	406566.141	406566.14				ug/L
|	Sn	118	1636.134	0.00	0.3369	0.008	2.386	ug/L
⌊	Sb	123	205549.816	0.51	48.1963	1.921	3.986	ug/L
⌈	Ba	135	133111.440	0.23	70.1122	1.501	2.140	ug/L
|	Ce	140	423.385	0.00				ug/L
|>	Tb	159	580585.248	580585.25				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	449908.219	0.82	53.9249	1.409	2.613	ug/L
|	Tl	205	1107012.190	2.01	52.7102	0.994	1.885	ug/L
|	Pb	206	365424.162	0.66	54.2237	1.348	2.486	ug/L
|	Pb	207	325993.880	0.59	52.3099	2.251	4.303	ug/L
|	Pb	208	1525167.570	2.76	54.5196	1.807	3.314	ug/L
|	U	238	2783250.944	5.04	53.0879	0.742	1.397	ug/L
|>	Bi	209	551889.901	551889.90				ug/L

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⌈	Na	23	51566125.603	165.89	8.0504	0.712	8.850	mg/L
|	Mg	24	7841354.472	25.23	1.9652	0.141	7.171	mg/L
|	K	39	8552107.305	25.57	0.8282	0.059	7.124	mg/L
|	Ca	43	277440.313	0.89	13.0824	0.710	5.426	mg/L
|	Fe	54	123138.979	0.23	0.1046	0.018	17.186	mg/L
|	Fe	57	29379.459	0.07	0.0733	0.005	6.604	mg/L
⌊>	Sc-1	45	311101.249	311101.25				mg/L
	Cl	35	164191.361	145334.26				mg/L
	Kr	83	42.001	-12.67				mg/L
	Br	81	22852.754	14662.06				mg/L
	P	31	27664.226	15578.85				mg/L
	S	34	430920.143	228558.75				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		99.533			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
| >	In	115		109.879			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.778			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.815			
⌈	Na	23					

Sample ID: L1102039701PS WG356798-03
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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102039701PS WG356798-03
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Method 6020 - Summary Report

Sample ID: L1102039701SDL WG356798-04

Sample Date/Time: Friday, February 18, 2011 16:00:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26869.703	0.01				ug/L
|	Be	9	7.333	0.00	-0.0443	0.013	29.740	ug/L
|	Al	27	31182.272	0.09	4.2620	0.650	15.254	ug/L
⌊>	Sc	45	296155.825	296155.83				ug/L
⌈	Ti	49	166.685	0.00	0.2112	0.209	98.862	ug/L
|	V	51	9249.697	0.01	0.6459	0.027	4.154	ug/L
|	Cr	52	11672.264	0.01	0.3796	0.050	13.302	ug/L
|	Cr	53	726.766	0.00	0.4032	0.045	11.064	ug/L
|	Mn	55	2508.340	0.00	0.1569	0.004	2.867	ug/L
|	Co	59	168.670	0.00	-0.0082	0.001	14.186	ug/L
|	Ni	60	417.013	0.00	0.1268	0.003	2.731	ug/L
|	Cu	65	300.008	0.00	0.0579	0.006	11.211	ug/L
|	Zn	66	4022.182	0.01	2.1138	0.009	0.415	ug/L
| >	Ge	72	491016.608	491016.61				ug/L
|	As	75	20.223	0.00	0.2014	0.023	11.579	ug/L
|	Se	77	78.667	0.00	0.2786	0.156	56.063	ug/L
|	Se	82	12.299	0.00	0.1729	0.092	53.283	ug/L
⌊	Rb	85	1366.774	0.00				mg/L
	Y	89	291074.674	-523.60				ug/L
	Rh	103	23.000	14.67				ug/L
⌈	Mo	98	924.691	0.00	0.3678	0.028	7.681	ug/L
|	Ag	107	52.667	-0.00	-0.0285	0.002	6.343	ug/L
|	Cd	114	11.026	0.00	0.0030	0.003	97.770	ug/L
| >	In	115	391118.650	391118.65				ug/L
|	Sn	118	387.608	0.00	0.0617	0.002	3.366	ug/L
⌊	Sb	123	425.881	0.00	0.0755	0.012	16.273	ug/L
⌈	Ba	135	8182.763	0.01	4.4267	0.016	0.368	ug/L
|	Ce	140	130.014	0.00				ug/L
⌊>	Tb	159	563613.864	563613.86				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	47.001	0.00	0.0013	0.001	47.482	ug/L
|	Tl	205	133.348	0.00	0.0250	0.002	9.467	ug/L
|	Pb	206	569.355	0.00	0.0052	0.002	34.270	ug/L
|	Pb	207	494.017	0.00	-0.0109	0.003	23.902	ug/L
|	Pb	208	2272.791	0.00	0.0010	0.001	130.285	ug/L
|	U	238	3804.762	0.01	0.0574	0.002	3.092	ug/L
⌊>	Bi	209	554238.387	554238.39				ug/L

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⌈	Na	23	10384387.915	35.00	1.6985	0.096	5.649	mg/L
|	Mg	24	1666027.953	5.63	0.4367	0.018	4.158	mg/L
|	K	39	2136889.981	5.27	0.1690	0.007	3.890	mg/L
|	Ca	43	53350.594	0.18	2.6318	0.061	2.319	mg/L
|	Fe	54	63705.048	0.04	0.0239	0.007	27.412	mg/L
|	Fe	57	11778.117	0.01	0.0143	0.002	13.079	mg/L
⌊>	Sc-1	45	296155.825	296155.83				mg/L
	Cl	35	48761.939	29904.84				mg/L
	Kr	83	42.334	-12.33				mg/L
	Br	81	11903.750	3713.05				mg/L
	P	31	16963.128	4877.75				mg/L
	S	34	269489.207	67127.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.689			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.704			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.510			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.282			
⌈	Na	23					

Sample ID: L1102039701SDL WG356798-04
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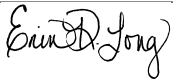

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102039701SDL WG356798-04
Report Date/Time: Friday, February 18, 2011 16:02:46
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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 18, 2011 16:07:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23678.057	-0.00				ug/L
|	Be	9	15954.735	0.05	51.9219	4.137	7.968	ug/L
|	Al	27	322744.061	1.07	50.5302	1.759	3.481	ug/L
|>	Sc	45	296862.218	296862.22				ug/L
⌈	Ti	49	66084.258	0.14	102.4066	1.864	1.820	ug/L
|	V	51	521057.196	1.06	50.5102	0.185	0.366	ug/L
|	Cr	52	445226.249	0.89	50.6335	0.314	0.621	ug/L
|	Cr	53	50572.612	0.10	50.0912	0.584	1.166	ug/L
|	Mn	55	673800.296	1.38	51.0311	0.423	0.828	ug/L
|	Co	59	581346.411	1.19	53.6129	0.303	0.565	ug/L
|	Ni	60	121777.238	0.25	52.7706	0.247	0.469	ug/L
|	Cu	65	123569.183	0.25	51.8368	0.790	1.524	ug/L
|	Zn	66	70936.808	0.14	50.8282	0.753	1.481	ug/L
|>	Ge	72	488948.135	488948.14				ug/L
|	As	75	53621.336	0.11	49.3074	0.712	1.444	ug/L
|	Se	77	4082.168	0.01	51.6910	2.304	4.456	ug/L
|	Se	82	4768.156	0.01	48.6357	0.861	1.769	ug/L
⌊	Rb	85	2142.584	0.00				mg/L
	Y	89	294375.795	2777.53				ug/L
	Rh	103	24.667	16.33				ug/L
⌈	Mo	98	248312.005	0.65	97.6014	1.674	1.715	ug/L
|	Ag	107	251477.441	0.66	49.7883	0.613	1.231	ug/L
|	Cd	114	58797.126	0.15	50.3600	2.114	4.198	ug/L
|>	In	115	382722.854	382722.85				ug/L
|	Sn	118	207810.431	0.54	49.2089	0.390	0.792	ug/L
⌊	Sb	123	192439.168	0.50	47.9046	0.279	0.583	ug/L
⌈	Ba	135	84501.050	0.16	49.3156	0.773	1.567	ug/L
|	Ce	140	56.673	0.00				ug/L
|>	Tb	159	523791.162	523791.16				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	410960.438	0.76	50.5065	1.636	3.240	ug/L
|	Tl	205	1007859.397	1.87	49.2154	1.786	3.630	ug/L
|	Pb	206	328329.129	0.61	49.9375	2.223	4.452	ug/L
|	Pb	207	300995.454	0.56	49.5024	0.970	1.959	ug/L
|	Pb	208	1367555.557	2.54	50.1007	0.991	1.977	ug/L
|	U	238	2612329.299	4.85	51.0733	1.150	2.253	ug/L
|>	Bi	209	538498.851	538498.85				ug/L

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Na	23	29909706.094	100.85	4.8941	0.378	7.728	mg/L
Mg	24	19075081.684	64.31	5.0116	0.196	3.915	mg/L
K	39	46118235.816	153.54	4.9830	0.198	3.969	mg/L
Ca	43	99465.486	0.33	4.9069	0.125	2.557	mg/L
Fe	54	3378983.909	11.21	4.9963	0.070	1.392	mg/L
Fe	57	1372458.429	4.60	4.9599	0.143	2.875	mg/L
> Sc-1	45	296862.218	296862.22				mg/L
Cl	35	18971.984	114.89				mg/L
Kr	83	44.001	-10.67				mg/L
Br	81	9417.119	1226.42				mg/L
P	31	15095.418	3010.04				mg/L
S	34	220843.922	18482.53				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	101.020				
Cr	52	101.267				
Cr	53					
Mn	55	102.062				
Co	59	107.226				
Ni	60	105.541				
Cu	65	103.674				
Zn	66	101.656				
> Ge	72		101.261			
As	75	98.615				
Se	77					
Se	82	97.271				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.577				
Cd	114	100.720				
> In	115		103.435			
Sn	118					
Sb	123	95.809				
Ba	135	98.631				
Ce	140					
> Tb	159		100.843			
Ho	165					
Tl	203	101.013				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.201				
U	238	102.147				
> Bi	209		107.150			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 16:09:33

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 16:09:33

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 18, 2011 16:14:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25315.453	0.00				ug/L
|	Be	9	3.333	-0.00	-0.0575	0.004	6.567	ug/L
|	Al	27	4417.644	-0.00	-0.0254	0.007	28.543	ug/L
⌊>	Sc	45	305964.313	305964.31				ug/L
⌈	Ti	49	60.006	0.00	0.0446	0.015	33.657	ug/L
|	V	51	2540.266	0.00	-0.0084	0.001	6.414	ug/L
|	Cr	52	8507.704	0.00	0.0007	0.024	3337.091	ug/L
|	Cr	53	206.689	-0.00	-0.1159	0.019	16.022	ug/L
|	Mn	55	396.012	0.00	-0.0030	0.001	36.061	ug/L
|	Co	59	62.334	0.00	-0.0180	0.000	1.421	ug/L
|	Ni	60	51.667	-0.00	-0.0314	0.004	12.626	ug/L
|	Cu	65	127.002	0.00	-0.0151	0.009	59.928	ug/L
|	Zn	66	766.370	-0.00	-0.2538	0.039	15.442	ug/L
|>	Ge	72	497974.837	497974.84				ug/L
|	As	75	-163.412	0.00	0.0358	0.034	94.547	ug/L
|	Se	77	69.334	-0.00	0.1463	0.075	51.127	ug/L
|	Se	82	0.939	0.00	0.0572	0.082	143.206	ug/L
⌊	Rb	85	18.334	-0.00				mg/L
	Y	89	305336.996	13738.73				ug/L
	Rh	103	11.333	3.00				ug/L
⌈	Mo	98	96.426	0.00	0.0476	0.004	7.926	ug/L
|	Ag	107	36.667	-0.00	-0.0319	0.002	4.827	ug/L
|	Cd	114	-0.506	-0.00	-0.0066	0.003	49.323	ug/L
|>	In	115	403112.946	403112.95				ug/L
|	Sn	118	290.004	0.00	0.0370	0.003	7.042	ug/L
⌊	Sb	123	116.661	-0.00	-0.0004	0.001	123.275	ug/L
⌈	Ba	135	18.334	0.00	-0.0021	0.001	67.021	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	549453.699	549453.70				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	28.334	0.00	-0.0010	0.000	15.847	ug/L
|	Tl	205	80.008	0.00	0.0224	0.002	7.559	ug/L
|	Pb	206	465.349	0.00	-0.0114	0.002	18.303	ug/L
|	Pb	207	393.012	-0.00	-0.0283	0.002	8.473	ug/L
|	Pb	208	1835.751	-0.00	-0.0157	0.002	10.586	ug/L
|	U	238	145.336	0.00	-0.0122	0.000	3.863	ug/L
⌊>	Bi	209	564486.267	564486.27				ug/L

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⌈	Na	23	22768.200	-0.02	-0.0007	0.000	36.808	mg/L
|	Mg	24	676.757	0.00	-0.0019	0.000	0.629	mg/L
|	K	39	550765.019	-0.15	-0.0068	0.003	39.145	mg/L
|	Ca	43	190.021	-0.00	-0.0029	0.001	49.158	mg/L
|	Fe	54	51424.875	-0.00	0.0030	0.003	99.815	mg/L
|	Fe	57	7840.527	0.00	-0.0009	0.001	94.907	mg/L
⌊>	Sc-1	45	305964.313	305964.31				mg/L
	Cl	35	18974.656	117.56				mg/L
	Kr	83	45.334	-9.33				mg/L
	Br	81	9138.842	948.15				mg/L
	P	31	16691.988	4606.61				mg/L
	S	34	230993.926	28632.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.130			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.946			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.784			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		112.321			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 18, 2011 16:16:48
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Method 6020 - Summary Report

Sample ID: PBS 58 WG356891-02

Sample Date/Time: Friday, February 18, 2011 16:21:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25449.841	-0.00				ug/L
|	Be	9	8.667	0.00	-0.0417	0.007	16.685	ug/L
|	Al	27	38892.266	0.11	5.0708	0.280	5.530	ug/L
⌊>	Sc	45	317133.567	317133.57				ug/L
⌈	Ti	49	100.011	0.00	0.1040	0.039	37.228	ug/L
|	V	51	2684.325	0.00	0.0030	0.015	498.284	ug/L
|	Cr	52	10106.874	0.00	0.1721	0.011	6.452	ug/L
|	Cr	53	390.047	0.00	0.0601	0.051	84.296	ug/L
|	Mn	55	2799.420	0.00	0.1740	0.003	1.763	ug/L
|	Co	59	164.003	0.00	-0.0090	0.000	4.727	ug/L
|	Ni	60	230.338	0.00	0.0438	0.006	13.181	ug/L
|	Cu	65	411.013	0.00	0.1004	0.008	7.807	ug/L
|	Zn	66	3752.742	0.01	1.8564	0.050	2.688	ug/L
|>	Ge	72	502537.667	502537.67				ug/L
|	As	75	-161.423	0.00	0.0391	0.024	60.233	ug/L
|	Se	77	79.334	0.00	0.2640	0.123	46.576	ug/L
|	Se	82	5.673	0.00	0.1044	0.045	43.464	ug/L
⌊	Rb	85	76.668	0.00				mg/L
	Y	89	314410.070	22811.80				ug/L
	Rh	103	8.667	0.33				ug/L
⌈	Mo	98	54.973	0.00	0.0320	0.001	4.623	ug/L
|	Ag	107	88.668	-0.00	-0.0222	0.004	15.944	ug/L
|	Cd	114	2.380	0.00	-0.0043	0.001	33.097	ug/L
|>	In	115	405862.626	405862.63				ug/L
|	Sn	118	285.737	0.00	0.0357	0.004	10.034	ug/L
⌊	Sb	123	116.454	-0.00	-0.0007	0.002	349.629	ug/L
⌈	Ba	135	120.335	0.00	0.0521	0.001	2.357	ug/L
|	Ce	140	283.366	0.00				ug/L
⌊>	Tb	159	571409.874	571409.87				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	35.667	0.00	-0.0002	0.000	168.122	ug/L
|	Tl	205	60.006	0.00	0.0214	0.002	9.525	ug/L
|	Pb	206	544.354	0.00	-0.0012	0.002	130.681	ug/L
|	Pb	207	489.017	0.00	-0.0145	0.005	31.598	ug/L
|	Pb	208	2236.788	0.00	-0.0030	0.001	36.152	ug/L
|	U	238	153.003	0.00	-0.0121	0.000	4.055	ug/L
⌊>	Bi	209	573935.765	573935.77				ug/L

Sample ID: PBS 58 WG356891-02
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⌈	Na	23	76217.360	0.15	0.0073	0.001	7.967	mg/L
|	Mg	24	13740.811	0.04	0.0013	0.000	5.081	mg/L
|	K	39	563239.024	-0.18	-0.0076	0.001	16.997	mg/L
|	Ca	43	466.724	0.00	0.0096	0.002	22.340	mg/L
|	Fe	54	100992.502	0.15	0.0699	0.007	10.240	mg/L
|	Fe	57	9969.300	0.01	0.0053	0.001	20.793	mg/L
⌊>	Sc-1	45	317133.567	317133.57				mg/L
	Cl	35	36035.480	17178.38				mg/L
	Kr	83	37.667	-17.00				mg/L
	Br	81	10411.418	2220.72				mg/L
	P	31	25913.791	13828.41				mg/L
	S	34	242354.239	39992.85				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.075			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.689			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.011			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		114.202			
⌈	Na	23					

Sample ID: PBS 58 WG356891-02
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 58 WG356891-02
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Method 6020 - Summary Report

Sample ID: LCSS 58 WG356891-03

Sample Date/Time: Friday, February 18, 2011 16:28:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25432.634	-0.01				ug/L
|	Be	9	8076.597	0.02	23.4395	1.306	5.572	ug/L
|	Al	27	182657.405	0.54	25.2498	2.306	9.134	ug/L
|>	Sc	45	331991.024	331991.02				ug/L
⌈	Ti	49	83.342	0.00	0.0787	0.062	79.097	ug/L
|	V	51	279922.006	0.55	26.0945	0.979	3.752	ug/L
|	Cr	52	246258.794	0.47	26.6050	0.751	2.823	ug/L
|	Cr	53	28296.139	0.06	26.9278	0.601	2.231	ug/L
|	Mn	55	363431.087	0.72	26.5736	0.668	2.514	ug/L
|	Co	59	298270.733	0.59	26.5567	0.260	0.978	ug/L
|	Ni	60	64016.226	0.13	26.7718	0.557	2.079	ug/L
|	Cu	65	65377.669	0.13	26.4592	0.322	1.217	ug/L
|	Zn	66	37697.654	0.07	25.7005	0.548	2.131	ug/L
|>	Ge	72	506255.803	506255.80				ug/L
|	As	75	26145.086	0.05	23.3182	0.238	1.019	ug/L
|	Se	77	1870.842	0.00	22.4909	1.533	6.816	ug/L
|	Se	82	2233.283	0.00	22.0283	0.215	0.974	ug/L
⌊	Rb	85	57.001	0.00				mg/L
	Y	89	314801.742	23203.47				ug/L
	Rh	103	15.000	6.67				ug/L
⌈	Mo	98	51.937	0.00	0.0303	0.002	8.118	ug/L
|	Ag	107	89915.011	0.21	16.2816	0.571	3.507	ug/L
|	Cd	114	30119.278	0.07	23.6306	1.066	4.511	ug/L
|>	In	115	418045.065	418045.06				ug/L
|	Sn	118	192.135	0.00	0.0135	0.001	7.366	ug/L
⌊	Sb	123	99694.995	0.24	22.7203	0.759	3.341	ug/L
⌈	Ba	135	44618.515	0.08	23.4037	0.627	2.677	ug/L
|	Ce	140	116.679	0.00				ug/L
|>	Tb	159	582518.583	582518.58				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	222868.108	0.39	25.4695	1.765	6.930	ug/L
|	Tl	205	536905.741	0.93	24.3659	1.067	4.378	ug/L
|	Pb	206	185752.036	0.32	26.2234	1.622	6.184	ug/L
|	Pb	207	163367.468	0.28	24.9179	0.944	3.790	ug/L
|	Pb	208	755589.855	1.30	25.6852	0.964	3.752	ug/L
|	U	238	1416831.413	2.45	25.7391	1.223	4.752	ug/L
|>	Bi	209	579991.688	579991.69				ug/L

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⌈	Na	23	80665.775	0.15	0.0075	0.001	8.027	mg/L
|	Mg	24	10523.254	0.03	0.0004	0.000	20.753	mg/L
|	K	39	546975.971	-0.30	-0.0118	0.002	14.900	mg/L
|	Ca	43	406.716	0.00	0.0061	0.003	46.850	mg/L
|	Fe	54	102156.100	0.14	0.0653	0.010	15.953	mg/L
|	Fe	57	8541.196	0.00	-0.0009	0.002	279.385	mg/L
⌊>	Sc-1	45	331991.024	331991.02				mg/L
	Cl	35	30644.218	11787.12				mg/L
	Kr	83	38.000	-16.67				mg/L
	Br	81	9795.477	1604.78				mg/L
	P	31	29672.747	17587.37				mg/L
	S	34	225328.387	22966.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.845			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		112.982			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.150			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		115.407			
⌈	Na	23					

Sample ID: LCSS 58 WG356891-03
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 58 WG356891-03
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Method 6020 - Summary Report

Sample ID: L1102044701 WG356891-01

Sample Date/Time: Friday, February 18, 2011 16:34:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: ~~1~~ 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25499.409	0.00				ug/L
|	Be	9	68.000	0.00	0.1509	0.029	18.973	ug/L
|	Al	27	12312470.033	41.24	1942.4543	170.883	8.797	ug/L
⌊>	Sc	45	299042.528	299042.53				ug/L
⌈	Ti	49	8127.452	0.02	11.9709	0.449	3.752	ug/L
|	V	51	102507.648	0.20	9.2774	0.296	3.190	ug/L
|	Cr	52	44219.000	0.07	3.9225	0.132	3.373	ug/L
|	Cr	53	4344.721	0.01	3.8234	0.621	16.245	ug/L
|	Mn	55	4675080.992	9.13	338.1161	13.585	4.018	ug/L
|	Co	59	46902.219	0.09	4.1066	0.175	4.273	ug/L
|	Ni	60	5881.455	0.01	2.3803	0.033	1.393	ug/L
|	Cu	65	9250.370	0.02	3.6409	0.146	4.021	ug/L
|	Zn	66	12705.528	0.02	8.0253	0.379	4.726	ug/L
| >	Ge	72	512663.700	512663.70				ug/L
|	As	75	1305.887	0.00	1.3243	0.034	2.593	ug/L
|	Se	77	102.001	0.00	0.5211	0.034	6.494	ug/L
|	Se	82	23.212	0.00	0.2728	0.060	22.142	ug/L
⌊	Rb	85	32014.486	0.06				mg/L
	Y	89	370554.557	78956.29				ug/L
	Rh	103	9.000	0.67				ug/L
⌈	Mo	98	291.317	0.00	0.1237	0.001	0.843	ug/L
|	Ag	107	119.335	-0.00	-0.0156	0.005	32.947	ug/L
|	Cd	114	21.025	0.00	0.0114	0.008	68.526	ug/L
| >	In	115	391210.328	391210.33				ug/L
|	Sn	118	153.335	0.00	0.0074	0.003	34.102	ug/L
⌊	Sb	123	55.660	-0.00	-0.0144	0.003	20.091	ug/L
⌈	Ba	135	41242.284	0.08	23.2215	0.646	2.782	ug/L
|	Ce	140	596658.159	1.10				ug/L
⌊>	Tb	159	543021.484	543021.48				ug/L
⌈	Ho	165	4881.681	0.01				ug/L
|	Tl	203	468.349	0.00	0.0523	0.003	6.399	ug/L
|	Tl	205	1220.197	0.00	0.0772	0.006	7.397	ug/L
|	Pb	206	42771.738	0.08	6.3221	0.077	1.214	ug/L
|	Pb	207	34432.211	0.06	5.4850	0.112	2.043	ug/L
|	Pb	208	164019.821	0.30	5.8341	0.071	1.222	ug/L
|	U	238	14909.271	0.03	0.2716	0.010	3.835	ug/L
⌊>	Bi	209	547900.127	547900.13				ug/L

Sample ID: L1102044701 WG356891-01
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⌈	Na	23	42561.551	0.05	0.0026	0.001	27.373	mg/L
|	Mg	24	966178.280	3.23	0.2502	0.015	6.109	mg/L
|	K	39	1869152.356	4.30	0.1378	0.007	5.277	mg/L
|	Ca	43	6569.481	0.02	0.3108	0.019	6.229	mg/L
|	Fe	54	4089216.982	13.52	6.0218	0.286	4.751	mg/L
|	Fe	57	1706241.981	5.69	6.1326	0.371	6.043	mg/L
⌊>	Sc-1	45	299042.528	299042.53				mg/L
	Cl	35	23516.954	4659.86				mg/L
	Kr	83	52.334	-2.33				mg/L
	Br	81	9248.944	1058.25				mg/L
	P	31	65005.337	52919.96				mg/L
	S	34	231049.392	28688.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.172			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.729			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.546			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.021			
⌈	Na	23					

Sample ID: L1102044701 WG356891-01
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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: L1102044702

Sample Date/Time: Friday, February 18, 2011 16:41:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 5
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25532.886	0.00				ug/L
|	Be	9	82.667	0.00	0.1884	0.015	8.203	ug/L
|	Al	27	18994532.611	60.99	2872.5934	88.618	3.085	ug/L
⌊>	Sc	45	311674.692	311674.69				ug/L
⌈	Ti	49	7757.116	0.01	11.4076	0.047	0.414	ug/L
|	V	51	120382.821	0.23	10.9209	0.271	2.478	ug/L
|	Cr	52	59099.391	0.10	5.5576	0.139	2.499	ug/L
|	Cr	53	6426.042	0.01	5.7820	0.222	3.841	ug/L
|	Mn	55	3046775.607	5.93	219.9040	2.388	1.086	ug/L
|	Co	59	36072.647	0.07	3.1467	0.071	2.268	ug/L
|	Ni	60	6658.950	0.01	2.6981	0.040	1.467	ug/L
|	Cu	65	11445.995	0.02	4.5122	0.032	0.702	ug/L
|	Zn	66	16097.775	0.03	10.3586	0.008	0.081	ug/L
|>	Ge	72	513342.210	513342.21				ug/L
|	As	75	1731.496	0.00	1.6944	0.078	4.595	ug/L
|	Se	77	99.334	0.00	0.4880	0.151	30.857	ug/L
|	Se	82	26.557	0.00	0.3071	0.164	53.431	ug/L
⌊	Rb	85	40584.265	0.08				mg/L
	Y	89	358293.702	66695.43				ug/L
	Rh	103	10.333	2.00				ug/L
⌈	Mo	98	360.024	0.00	0.1513	0.005	3.299	ug/L
|	Ag	107	117.335	-0.00	-0.0158	0.001	3.408	ug/L
|	Cd	114	17.907	0.00	0.0089	0.006	62.872	ug/L
|>	In	115	387857.256	387857.26				ug/L
|	Sn	118	118.667	0.00	-0.0004	0.003	651.796	ug/L
⌊	Sb	123	42.159	-0.00	-0.0177	0.001	5.513	ug/L
⌈	Ba	135	40483.521	0.08	23.6113	0.269	1.141	ug/L
|	Ce	140	493332.124	0.94				ug/L
⌊>	Tb	159	523971.834	523971.83				ug/L
⌈	Ho	165	4071.236	0.01				ug/L
|	Tl	203	482.683	0.00	0.0535	0.003	5.836	ug/L
|	Tl	205	1206.860	0.00	0.0761	0.005	7.021	ug/L
|	Pb	206	41466.310	0.07	6.0740	0.328	5.394	ug/L
|	Pb	207	33072.944	0.06	5.2177	0.144	2.750	ug/L
|	Pb	208	159569.461	0.29	5.6228	0.138	2.452	ug/L
|	U	238	18120.253	0.03	0.3303	0.010	3.162	ug/L
⌊>	Bi	209	552873.983	552873.98				ug/L

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⌈	Na	23	52797.618	0.08	0.0039	0.000	10.890	mg/L
|	Mg	24	1254267.690	4.03	0.3122	0.014	4.539	mg/L
|	K	39	2087545.487	4.76	0.1525	0.010	6.751	mg/L
|	Ca	43	8334.310	0.03	0.3805	0.003	0.789	mg/L
|	Fe	54	5164252.971	16.44	7.3208	0.521	7.117	mg/L
|	Fe	57	2050197.306	6.57	7.0805	0.462	6.527	mg/L
⌊>	Sc-1	45	311674.692	311674.69				mg/L
	Cl	35	22082.357	3225.26				mg/L
	Kr	83	51.001	-3.67				mg/L
	Br	81	9098.137	907.44				mg/L
	P	31	71276.586	59191.21				mg/L
	S	34	212094.925	9733.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.313			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.823			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.878			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.011			
⌈	Na	23					

Sample ID: L1102044702
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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: L1102044703S WG356891-04

Sample Date/Time: Friday, February 18, 2011 16:48:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: ~~1~~ 5
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24329.659	-0.00				ug/L
|	Be	9	1707.480	0.01	5.2241	0.266	5.091	ug/L
|	Al	27	19071317.738	61.27	2885.8290	124.225	4.305	ug/L
⌊>	Sc	45	311445.527	311445.53				ug/L
⌈	Ti	49	8801.418	0.02	13.0553	0.104	0.800	ug/L
|	V	51	165772.388	0.32	15.2558	0.157	1.030	ug/L
|	Cr	52	99114.418	0.18	10.0629	0.099	0.988	ug/L
|	Cr	53	10866.992	0.02	10.0814	0.309	3.066	ug/L
|	Mn	55	3051089.619	5.99	221.9926	1.729	0.779	ug/L
|	Co	59	93314.672	0.18	8.2434	0.137	1.667	ug/L
|	Ni	60	18945.456	0.04	7.8372	0.097	1.241	ug/L
|	Cu	65	23626.113	0.05	9.4619	0.062	0.655	ug/L
|	Zn	66	23613.751	0.04	15.7018	0.068	0.436	ug/L
|>	Ge	72	509217.813	509217.81				ug/L
|	As	75	6775.705	0.01	6.1435	0.055	0.897	ug/L
|	Se	77	506.013	0.00	5.5104	0.511	9.270	ug/L
|	Se	82	524.239	0.00	5.1776	0.109	2.097	ug/L
⌊	Rb	85	42858.073	0.08				mg/L
	Y	89	364398.893	72800.62				ug/L
	Rh	103	10.000	1.67				ug/L
⌈	Mo	98	363.252	0.00	0.1507	0.011	7.558	ug/L
|	Ag	107	22285.705	0.06	4.2583	0.164	3.849	ug/L
|	Cd	114	5903.593	0.01	4.9082	0.295	6.017	ug/L
|>	In	115	393446.961	393446.96				ug/L
|	Sn	118	158.935	0.00	0.0084	0.003	30.269	ug/L
⌊	Sb	123	301.623	0.00	0.0451	0.001	2.080	ug/L
⌈	Ba	135	49345.950	0.09	28.4094	0.780	2.744	ug/L
|	Ce	140	537416.224	1.01				ug/L
⌊>	Tb	159	531017.262	531017.26				ug/L
⌈	Ho	165	4034.552	0.01				ug/L
|	Tl	203	41452.197	0.08	4.9782	0.192	3.863	ug/L
|	Tl	205	101300.662	0.18	4.8536	0.116	2.392	ug/L
|	Pb	206	75845.719	0.14	11.2210	0.377	3.358	ug/L
|	Pb	207	63572.070	0.11	10.1539	0.074	0.732	ug/L
|	Pb	208	302846.453	0.55	10.7881	0.122	1.129	ug/L
|	U	238	281006.552	0.51	5.3589	0.043	0.794	ug/L
⌊>	Bi	209	550555.653	550555.65				ug/L

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⌈	Na	23	56850.187	0.09	0.0045	0.000	6.806	mg/L
|	Mg	24	1393389.917	4.48	0.3470	0.014	4.072	mg/L
|	K	39	2233224.076	5.22	0.1676	0.007	4.404	mg/L
|	Ca	43	9408.698	0.03	0.4316	0.016	3.773	mg/L
|	Fe	54	4302210.961	13.65	6.0812	0.193	3.167	mg/L
|	Fe	57	1822381.241	5.83	6.2859	0.330	5.248	mg/L
⌊>	Sc-1	45	311445.527	311445.53				mg/L
	Cl	35	89614.715	70757.62				mg/L
	Kr	83	51.667	-3.00				mg/L
	Br	81	10052.384	1861.69				mg/L
	P	31	73588.659	61503.28				mg/L
	S	34	212537.714	10176.32				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.459			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.334			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.235			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.549			
⌈	Na	23					

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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1102044703S WG356891-04
Report Date/Time: Friday, February 18, 2011 16:50:44
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Method 6020 - Summary Report

Sample ID: L1102044704SD WG356891-05

Sample Date/Time: Friday, February 18, 2011 16:55:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 5
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23912.247	-0.01				ug/L
|	Be	9	1723.482	0.01	5.1171	0.274	5.359	ug/L
|	Al	27	16913178.897	52.76	2484.8509	113.243	4.557	ug/L
⌊>	Sc	45	320907.623	320907.62				ug/L
⌈	Ti	49	9011.630	0.02	13.2954	0.537	4.043	ug/L
|	V	51	177857.193	0.34	16.2949	0.075	0.461	ug/L
|	Cr	52	101328.164	0.18	10.2471	0.091	0.892	ug/L
|	Cr	53	11444.356	0.02	10.5755	0.123	1.166	ug/L
|	Mn	55	4417139.289	8.63	319.6392	2.378	0.744	ug/L
|	Co	59	105807.503	0.21	9.2991	0.291	3.133	ug/L
|	Ni	60	20031.583	0.04	8.2439	0.127	1.544	ug/L
|	Cu	65	24705.400	0.05	9.8423	0.153	1.551	ug/L
|	Zn	66	24377.591	0.05	16.1431	0.294	1.823	ug/L
|>	Ge	72	512019.654	512019.65				ug/L
|	As	75	7018.334	0.01	6.3230	0.022	0.341	ug/L
|	Se	77	508.013	0.00	5.5028	0.632	11.491	ug/L
|	Se	82	494.490	0.00	4.8600	0.100	2.057	ug/L
⌊	Rb	85	42348.574	0.08				mg/L
	Y	89	386569.013	94970.74				ug/L
	Rh	103	14.000	5.67				ug/L
⌈	Mo	98	394.655	0.00	0.1627	0.011	6.969	ug/L
|	Ag	107	24159.059	0.06	4.6160	0.092	1.983	ug/L
|	Cd	114	6399.364	0.02	5.3225	0.073	1.369	ug/L
|>	In	115	393716.186	393716.19				ug/L
|	Sn	118	113.734	0.00	-0.0019	0.003	143.667	ug/L
⌊	Sb	123	888.916	0.00	0.1875	0.014	7.565	ug/L
⌈	Ba	135	56799.084	0.10	32.0390	0.445	1.390	ug/L
|	Ce	140	664585.262	1.23				ug/L
⌊>	Tb	159	541900.602	541900.60				ug/L
⌈	Ho	165	5422.013	0.01				ug/L
|	Tl	203	41497.676	0.08	5.0204	0.058	1.146	ug/L
|	Tl	205	104738.023	0.19	5.0560	0.392	7.761	ug/L
|	Pb	206	80269.404	0.15	11.9703	0.598	4.992	ug/L
|	Pb	207	66111.576	0.12	10.6467	0.419	3.936	ug/L
|	Pb	208	314000.050	0.57	11.2733	0.157	1.389	ug/L
|	U	238	276718.942	0.51	5.3169	0.069	1.294	ug/L
⌊>	Bi	209	546439.573	546439.57				ug/L

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⌈	Na	23	47142.252	0.06	0.0028	0.000	7.233	mg/L
|	Mg	24	1259591.706	3.93	0.3045	0.018	6.008	mg/L
|	K	39	2157705.075	4.78	0.1533	0.011	7.319	mg/L
|	Ca	43	7343.434	0.02	0.3238	0.001	0.383	mg/L
|	Fe	54	5242515.664	16.19	7.2095	0.317	4.394	mg/L
|	Fe	57	2188620.777	6.81	7.3385	0.443	6.030	mg/L
⌊>	Sc-1	45	320907.623	320907.62				mg/L
	Cl	35	22346.290	3489.19				mg/L
	Kr	83	61.001	6.33				mg/L
	Br	81	9326.358	1135.66				mg/L
	P	31	73473.196	61387.82				mg/L
	S	34	202801.269	439.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.039			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.406			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.330			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.730			
⌈	Na	23					

Sample ID: L1102044704SD WG356891-05
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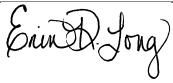

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1102044704SD WG356891-05
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Method 6020 - Summary Report

Sample ID: L1102044706

Sample Date/Time: Friday, February 18, 2011 17:02:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: ~~1~~ 5
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25883.519	-0.01				ug/L
|	Be	9	106.001	0.00	0.2164	0.019	8.846	ug/L
|	Al	27	73328290.764	203.70	9593.7665	410.619	4.280	ug/L
⌊>	Sc	45	359776.544	359776.54				ug/L
⌈	Ti	49	13547.196	0.03	19.8476	0.546	2.753	ug/L
|	V	51	402447.742	0.77	36.8898	0.452	1.224	ug/L
|	Cr	52	176498.853	0.33	18.4089	0.301	1.633	ug/L
|	Cr	53	19477.583	0.04	18.0697	0.590	3.265	ug/L
|	Mn	55	373425.428	0.72	26.7779	0.636	2.374	ug/L
|	Co	59	26449.571	0.05	2.2877	0.087	3.814	ug/L
|	Ni	60	19499.188	0.04	7.9594	0.097	1.221	ug/L
|	Cu	65	31008.654	0.06	12.2718	0.244	1.986	ug/L
|	Zn	66	16826.313	0.03	10.8005	0.136	1.259	ug/L
|>	Ge	72	516168.380	516168.38				ug/L
|	As	75	4213.888	0.01	3.8392	0.158	4.105	ug/L
|	Se	77	101.334	0.00	0.5046	0.161	31.898	ug/L
|	Se	82	27.516	0.00	0.3134	0.085	27.251	ug/L
⌊	Rb	85	76543.593	0.15				mg/L
	Y	89	348197.080	56598.81				ug/L
	Rh	103	13.667	5.33				ug/L
⌈	Mo	98	421.287	0.00	0.1741	0.006	3.376	ug/L
|	Ag	107	218.671	-0.00	0.0038	0.005	120.734	ug/L
|	Cd	114	-5.527	-0.00	-0.0108	0.002	19.236	ug/L
|>	In	115	390224.630	390224.63				ug/L
|	Sn	118	447.877	0.00	0.0760	0.001	1.224	ug/L
⌊	Sb	123	47.073	-0.00	-0.0166	0.002	14.439	ug/L
⌈	Ba	135	18089.528	0.04	10.8358	0.359	3.310	ug/L
|	Ce	140	544383.603	1.07				ug/L
⌊>	Tb	159	510214.762	510214.76				ug/L
⌈	Ho	165	3550.988	0.01				ug/L
|	Tl	203	1665.155	0.00	0.1962	0.005	2.368	ug/L
|	Tl	205	4014.543	0.01	0.2105	0.010	4.669	ug/L
|	Pb	206	44884.965	0.08	6.6221	0.244	3.683	ug/L
|	Pb	207	36485.137	0.07	5.8016	0.161	2.779	ug/L
|	Pb	208	174576.782	0.31	6.1985	0.203	3.273	ug/L
|	U	238	40046.765	0.07	0.7526	0.023	3.097	ug/L
⌊>	Bi	209	549602.470	549602.47				ug/L

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⌈	Na	23	71657.716	0.11	0.0053	0.002	35.535	mg/L
|	Mg	24	2531216.369	7.03	0.5462	0.017	3.158	mg/L
|	K	39	3977794.200	9.11	0.2938	0.013	4.481	mg/L
|	Ca	43	3817.781	0.01	0.1436	0.011	7.724	mg/L
|	Fe	54	16431460.848	45.49	20.2562	0.200	0.988	mg/L
|	Fe	57	6791542.424	18.86	20.3311	0.557	2.741	mg/L
⌊>	Sc-1	45	359776.544	359776.54				mg/L
	Cl	35	20529.063	1671.97				mg/L
	Kr	83	55.667	1.00				mg/L
	Br	81	8869.933	679.24				mg/L
	P	31	41877.697	29792.32				mg/L
	S	34	199240.192	-3121.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.898			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.463			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.230			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.360			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102044706
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Method 6020 - Summary Report

Sample ID: L1102044707

Sample Date/Time: Friday, February 18, 2011 17:08:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: ~~1~~ 5
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25131.848	-0.01				ug/L
|	Be	9	112.001	0.00	0.2327	0.016	6.701	ug/L
|	Al	27	60536791.948	168.65	7943.1043	398.055	5.011	ug/L
⌊>	Sc	45	359277.344	359277.34				ug/L
⌈	Ti	49	12953.049	0.02	18.6532	1.486	7.965	ug/L
|	V	51	393947.831	0.75	35.4925	0.870	2.450	ug/L
|	Cr	52	179116.420	0.32	18.3658	0.072	0.393	ug/L
|	Cr	53	19804.911	0.04	18.0675	0.460	2.547	ug/L
|	Mn	55	320706.650	0.61	22.6031	0.176	0.779	ug/L
|	Co	59	24252.952	0.05	2.0604	0.036	1.728	ug/L
|	Ni	60	17326.507	0.03	6.9462	0.107	1.547	ug/L
|	Cu	65	31460.061	0.06	12.2396	0.101	0.823	ug/L
|	Zn	66	21469.238	0.04	13.7514	0.107	0.780	ug/L
|>	Ge	72	525015.510	525015.51				ug/L
|	As	75	4659.478	0.01	4.1587	0.168	4.037	ug/L
|	Se	77	110.667	0.00	0.5956	0.101	16.956	ug/L
|	Se	82	36.551	0.00	0.3953	0.125	31.566	ug/L
⌊	Rb	85	68818.341	0.13				mg/L
	Y	89	343934.571	52336.30				ug/L
	Rh	103	10.667	2.33				ug/L
⌈	Mo	98	420.438	0.00	0.1779	0.025	14.067	ug/L
|	Ag	107	230.005	-0.00	0.0070	0.001	9.775	ug/L
|	Cd	114	-1.689	-0.00	-0.0075	0.008	103.523	ug/L
|>	In	115	381286.185	381286.19				ug/L
|	Sn	118	719.359	0.00	0.1430	0.005	3.481	ug/L
⌊	Sb	123	47.865	-0.00	-0.0160	0.001	6.708	ug/L
⌈	Ba	135	17691.148	0.03	10.5947	0.164	1.543	ug/L
|	Ce	140	472822.843	0.93				ug/L
⌊>	Tb	159	509956.657	509956.66				ug/L
⌈	Ho	165	2850.692	0.01				ug/L
|	Tl	203	1452.454	0.00	0.1687	0.012	6.820	ug/L
|	Tl	205	3487.628	0.01	0.1837	0.018	9.792	ug/L
|	Pb	206	44642.212	0.08	6.5112	0.128	1.960	ug/L
|	Pb	207	35396.917	0.06	5.5631	0.182	3.276	ug/L
|	Pb	208	170436.034	0.30	5.9812	0.119	1.991	ug/L
|	U	238	37471.457	0.07	0.6953	0.015	2.170	ug/L
⌊>	Bi	209	555557.642	555557.64				ug/L

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⌈	Na	23	289952.282	0.72	0.0348	0.002	7.105	mg/L
|	Mg	24	2105955.419	5.86	0.4550	0.009	1.873	mg/L
|	K	39	3512283.169	7.83	0.2523	0.010	4.036	mg/L
|	Ca	43	4928.374	0.01	0.1893	0.000	0.256	mg/L
|	Fe	54	16427342.580	45.58	20.2951	0.846	4.171	mg/L
|	Fe	57	6685812.412	18.59	20.0429	0.679	3.385	mg/L
⌊>	Sc-1	45	359277.344	359277.34				mg/L
	Cl	35	24340.922	5483.83				mg/L
	Kr	83	51.667	-3.00				mg/L
	Br	81	9274.300	1083.60				mg/L
	P	31	38448.480	26363.10				mg/L
	S	34	224065.938	21704.55				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.731			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.047			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.180			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.545			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102044707PS WG356983-01

Sample Date/Time: Friday, February 18, 2011 17:15:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 5
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
[	Li	6	24713.870	-0.01				ug/L
|	Be	9	13913.688	0.04	37.7337	3.616	9.583	ug/L
|	Al	27	64318835.855	180.85	8517.5187	654.254	7.681	ug/L
|>	Sc	45	356611.530	356611.53				ug/L
[	Ti	49	17733.307	0.03	25.2898	12.415	49.089	ug/L
|	V	51	890056.889	1.67	79.6203	2.685	3.373	ug/L
|	Cr	52	595638.556	1.11	62.6274	1.924	3.072	ug/L
|	Cr	53	70367.091	0.13	64.2800	0.402	0.625	ug/L
|	Mn	55	984617.778	1.85	68.6759	1.286	1.873	ug/L
|	Co	59	552796.350	1.04	46.9480	0.560	1.192	ug/L
|	Ni	60	130310.924	0.25	52.0039	1.011	1.944	ug/L
|	Cu	65	148232.180	0.28	57.2798	0.395	0.690	ug/L
|	Zn	66	84639.558	0.16	55.9389	0.457	0.817	ug/L
|>	Ge	72	530906.655	530906.65				ug/L
|	As	75	59020.319	0.11	49.9892	0.869	1.739	ug/L
|	Se	77	3964.786	0.01	46.1745	1.079	2.337	ug/L
|	Se	82	4843.336	0.01	45.5030	1.044	2.295	ug/L
[	Rb	85	73089.911	0.14				mg/L
	Y	89	350722.260	59123.99				ug/L
	Rh	103	29.334	21.00				ug/L
[	Mo	98	483.482	0.00	0.2051	0.007	3.339	ug/L
|	Ag	107	221340.368	0.59	44.6556	1.518	3.399	ug/L
|	Cd	114	52658.594	0.14	45.9519	1.045	2.274	ug/L
|>	In	115	375760.065	375760.06				ug/L
|	Sn	118	793.498	0.00	0.1636	0.012	7.456	ug/L
[	Sb	123	175590.046	0.47	44.5414	1.298	2.915	ug/L
[	Ba	135	92979.209	0.19	57.4105	0.045	0.079	ug/L
|	Ce	140	488143.035	0.99				ug/L
|>	Tb	159	495060.456	495060.46				ug/L
[	Ho	165	3080.785	0.01				ug/L
|	Tl	203	361599.903	0.68	45.0660	2.938	6.519	ug/L
|	Tl	205	858300.415	1.62	42.5071	3.082	7.251	ug/L
|	Pb	206	346446.802	0.65	53.4056	0.685	1.283	ug/L
|	Pb	207	301101.381	0.57	50.2108	1.697	3.379	ug/L
|	Pb	208	1396416.032	2.63	51.8602	1.092	2.105	ug/L
|	U	238	2261406.241	4.26	44.8024	0.999	2.229	ug/L
|>	Bi	209	531275.060	531275.06				ug/L

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⌈	Na	23	100007.904	0.19	0.0093	0.001	10.598	mg/L
|	Mg	24	2166838.356	6.09	0.4726	0.028	5.938	mg/L
|	K	39	3529850.134	7.96	0.2565	0.014	5.389	mg/L
|	Ca	43	4424.755	0.01	0.1705	0.010	6.116	mg/L
|	Fe	54	17097844.847	47.81	21.2873	0.416	1.954	mg/L
|	Fe	57	7116509.061	19.97	21.5279	1.132	5.260	mg/L
⌊>	Sc-1	45	356611.530	356611.53				mg/L
	Cl	35	22510.642	3653.55				mg/L
	Kr	83	67.334	12.67				mg/L
	Br	81	9407.760	1217.06				mg/L
	P	31	40843.331	28757.96				mg/L
	S	34	211828.766	9467.37				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.951			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.554			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.312			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.713			
⌈	Na	23					

Sample ID: L1102044707PS WG356983-01
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102044707SDL WG356983-02

Sample Date/Time: Friday, February 18, 2011 17:22:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 25
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22041.266	-0.01				ug/L
|	Be	9	25.333	0.00	0.0095	0.032	335.012	ug/L
|	Al	27	12264291.130	38.63	1819.2009	96.254	5.291	ug/L
⌊>	Sc	45	317827.245	317827.24				ug/L
⌈	Ti	49	3267.559	0.01	4.5672	1.364	29.872	ug/L
|	V	51	80763.077	0.15	6.9174	0.170	2.464	ug/L
|	Cr	52	42684.007	0.06	3.5403	0.121	3.406	ug/L
|	Cr	53	4017.876	0.01	3.3324	0.154	4.622	ug/L
|	Mn	55	65661.920	0.12	4.5010	0.088	1.960	ug/L
|	Co	59	4897.916	0.01	0.3880	0.012	3.182	ug/L
|	Ni	60	3665.709	0.01	1.3951	0.045	3.195	ug/L
|	Cu	65	6918.462	0.01	2.5798	0.017	0.659	ug/L
|	Zn	66	9917.016	0.02	5.7734	0.025	0.433	ug/L
| >	Ge	72	536797.276	536797.28				ug/L
|	As	75	859.125	0.00	0.8997	0.033	3.675	ug/L
|	Se	77	92.000	0.00	0.3446	0.249	72.199	ug/L
|	Se	82	6.531	0.00	0.1094	0.044	40.327	ug/L
⌊	Rb	85	14525.356	0.03				mg/L
	Y	89	321577.304	29979.03				ug/L
	Rh	103	7.667	-0.67				ug/L
⌈	Mo	98	95.718	0.00	0.0486	0.004	7.829	ug/L
|	Ag	107	62.334	-0.00	-0.0267	0.000	0.969	ug/L
|	Cd	114	-0.235	-0.00	-0.0064	0.006	95.746	ug/L
| >	In	115	389740.672	389740.67				ug/L
|	Sn	118	278.671	0.00	0.0367	0.003	8.188	ug/L
⌊	Sb	123	364.668	0.00	0.0612	0.002	3.558	ug/L
⌈	Ba	135	3634.697	0.01	2.1392	0.082	3.839	ug/L
|	Ce	140	94201.002	0.18				ug/L
⌊>	Tb	159	516673.741	516673.74				ug/L
⌈	Ho	165	693.427	0.00				ug/L
|	Tl	203	279.007	0.00	0.0294	0.001	5.073	ug/L
|	Tl	205	676.757	0.00	0.0511	0.002	4.743	ug/L
|	Pb	206	8877.695	0.02	1.2507	0.042	3.321	ug/L
|	Pb	207	7304.073	0.01	1.0933	0.019	1.728	ug/L
|	Pb	208	34410.889	0.06	1.1614	0.008	0.672	ug/L
|	U	238	6974.168	0.01	0.1192	0.004	2.987	ug/L
⌊>	Bi	209	547651.108	547651.11				ug/L

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⌈	Na	23	58412.632	0.09	0.0046	0.000	10.815	mg/L
|	Mg	24	429147.837	1.35	0.1033	0.003	3.101	mg/L
|	K	39	1215309.161	1.88	0.0591	0.007	12.636	mg/L
|	Ca	43	1120.175	0.00	0.0399	0.005	13.759	mg/L
|	Fe	54	3383881.420	10.50	4.6784	0.402	8.597	mg/L
|	Fe	57	1384936.292	4.34	4.6799	0.358	7.640	mg/L
⌊>	Sc-1	45	317827.245	317827.24				mg/L
	Cl	35	19624.574	767.48				mg/L
	Kr	83	54.001	-0.67				mg/L
	Br	81	9944.954	1754.26				mg/L
	P	31	13478.444	1393.07				mg/L
	S	34	212832.049	10470.66				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		111.171			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.332			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.473			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.971			
⌈	Na	23					

Sample ID: L1102044707SDL WG356983-02
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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102044707SDL WG356983-02
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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 18, 2011 17:29:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21439.957	-0.01				ug/L
|	Be	9	14882.411	0.05	47.5342	1.502	3.160	ug/L
|	Al	27	324638.801	1.06	49.9425	0.979	1.959	ug/L
⌊>	Sc	45	301838.206	301838.21				ug/L
⌈	Ti	49	68262.364	0.13	101.5895	1.441	1.418	ug/L
|	V	51	561056.626	1.10	52.2388	0.179	0.343	ug/L
|	Cr	52	475092.044	0.92	51.9081	0.187	0.361	ug/L
|	Cr	53	54517.040	0.11	51.8607	0.481	0.927	ug/L
|	Mn	55	703375.253	1.38	51.1681	1.137	2.222	ug/L
|	Co	59	593125.031	1.17	52.5426	1.376	2.618	ug/L
|	Ni	60	124011.100	0.24	51.6283	2.137	4.140	ug/L
|	Cu	65	127405.579	0.25	51.3427	1.623	3.161	ug/L
|	Zn	66	73205.466	0.14	50.3654	0.640	1.271	ug/L
|>	Ge	72	509156.019	509156.02				ug/L
|	As	75	57804.837	0.11	51.0499	1.060	2.077	ug/L
|	Se	77	4232.229	0.01	51.4680	0.395	0.767	ug/L
|	Se	82	5135.666	0.01	50.3226	1.850	3.677	ug/L
⌊	Rb	85	2217.935	0.00				mg/L
	Y	89	316233.978	24635.71				ug/L
	Rh	103	22.334	14.00				ug/L
⌈	Mo	98	265166.643	0.70	105.4633	6.196	5.875	ug/L
|	Ag	107	255327.967	0.67	51.1406	2.578	5.040	ug/L
|	Cd	114	59807.677	0.16	51.7606	2.177	4.206	ug/L
|>	In	115	378681.931	378681.93				ug/L
|	Sn	118	209422.698	0.55	50.1412	1.126	2.247	ug/L
⌊	Sb	123	203506.348	0.54	51.2314	1.542	3.011	ug/L
⌈	Ba	135	89210.093	0.17	53.4940	0.820	1.533	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	509774.150	509774.15				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	410467.138	0.77	50.7398	0.802	1.581	ug/L
|	Tl	205	998427.485	1.87	49.0251	0.238	0.486	ug/L
|	Pb	206	325351.972	0.61	49.7855	1.752	3.519	ug/L
|	Pb	207	306197.149	0.57	50.6637	1.310	2.586	ug/L
|	Pb	208	1365003.694	2.55	50.3114	1.280	2.544	ug/L
|	U	238	2541388.760	4.75	49.9693	0.473	0.947	ug/L
⌊>	Bi	209	535243.921	535243.92				ug/L

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⌈	Na	23	31044927.696	102.76	4.9867	0.093	1.873	mg/L
|	Mg	24	19684759.928	65.24	5.0838	0.178	3.507	mg/L
|	K	39	47143778.435	154.25	5.0060	0.066	1.316	mg/L
|	Ca	43	101240.156	0.33	4.9092	0.096	1.957	mg/L
|	Fe	54	3526413.789	11.51	5.1294	0.065	1.264	mg/L
|	Fe	57	1467937.155	4.84	5.2153	0.039	0.740	mg/L
⌊>	Sc-1	45	301838.206	301838.21				mg/L
	Cl	35	20420.163	1563.07				mg/L
	Kr	83	45.334	-9.33				mg/L
	Br	81	9349.036	1158.34				mg/L
	P	31	17098.757	5013.38				mg/L
	S	34	248073.295	45711.90				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	104.478				
|	Cr	52	103.816				
|	Cr	53					
|	Mn	55	102.336				
|	Co	59	105.085				
|	Ni	60	103.257				
|	Cu	65	102.685				
|	Zn	66	100.731				
|>	Ge	72		105.446			
|	As	75	102.100				
|	Se	77					
|	Se	82	100.645				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	102.281				
|	Cd	114	103.521				
|>	In	115		102.343			
|	Sn	118					
⌊	Sb	123	102.463				
⌈	Ba	135	106.988				
|	Ce	140					
⌊>	Tb	159		98.145			
⌈	Ho	165					
|	Tl	203	101.480				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.623				
|	U	238	99.939				
⌊>	Bi	209		106.503			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 17:31:21

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 18, 2011 17:31:21

Approved: February 21, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 18, 2011 17:36:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21222.525	-0.02				ug/L
|	Be	9	9.333	0.00	-0.0407	0.008	20.164	ug/L
|	Al	27	4651.082	-0.00	-0.0358	0.014	39.507	ug/L
⌊>	Sc	45	327272.860	327272.86				ug/L
⌈	Ti	49	66.674	0.00	0.0485	0.009	17.615	ug/L
|	V	51	2695.985	0.00	-0.0095	0.004	43.525	ug/L
|	Cr	52	9069.536	0.00	0.0007	0.020	2914.650	ug/L
|	Cr	53	190.021	-0.00	-0.1435	0.025	17.717	ug/L
|	Mn	55	428.013	0.00	-0.0025	0.001	52.491	ug/L
|	Co	59	79.001	0.00	-0.0170	0.001	7.531	ug/L
|	Ni	60	62.667	0.00	-0.0284	0.004	12.945	ug/L
|	Cu	65	139.669	0.00	-0.0135	0.006	47.283	ug/L
|	Zn	66	792.039	-0.00	-0.2705	0.013	4.971	ug/L
|>	Ge	72	530865.388	530865.39				ug/L
|	As	75	-164.393	0.00	0.0442	0.034	76.462	ug/L
|	Se	77	86.000	0.00	0.2901	0.132	45.410	ug/L
|	Se	82	9.589	0.00	0.1386	0.109	78.663	ug/L
⌊	Rb	85	22.000	0.00				mg/L
	Y	89	338642.194	47043.92				ug/L
	Rh	103	10.667	2.33				ug/L
⌈	Mo	98	123.801	0.00	0.0580	0.005	7.817	ug/L
|	Ag	107	31.667	-0.00	-0.0328	0.001	2.846	ug/L
|	Cd	114	3.333	0.00	-0.0035	0.003	99.285	ug/L
|>	In	115	401736.944	401736.94				ug/L
|	Sn	118	228.536	0.00	0.0234	0.005	21.640	ug/L
⌊	Sb	123	147.996	-0.00	0.0071	0.004	58.460	ug/L
⌈	Ba	135	17.334	0.00	-0.0026	0.001	21.040	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	547141.015	547141.02				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	58.667	0.00	0.0027	0.001	37.534	ug/L
|	Tl	205	120.013	0.00	0.0243	0.002	9.762	ug/L
|	Pb	206	443.014	-0.00	-0.0132	0.004	30.250	ug/L
|	Pb	207	388.678	-0.00	-0.0276	0.004	13.974	ug/L
|	Pb	208	1794.415	-0.00	-0.0158	0.003	16.882	ug/L
|	U	238	88.335	0.00	-0.0132	0.000	1.237	ug/L
⌊>	Bi	209	552922.530	552922.53				ug/L

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⌈	Na	23	24809.928	-0.02	-0.0006	0.000	8.198	mg/L
|	Mg	24	533.401	0.00	-0.0019	0.000	1.471	mg/L
|	K	39	578911.813	-0.18	-0.0078	0.002	24.034	mg/L
|	Ca	43	206.690	-0.00	-0.0027	0.001	55.660	mg/L
|	Fe	54	56544.084	0.00	0.0051	0.006	114.674	mg/L
|	Fe	57	9251.871	0.00	0.0019	0.002	83.469	mg/L
⌊>	Sc-1	45	327272.860	327272.86				mg/L
	Cl	35	18899.846	42.75				mg/L
	Kr	83	47.334	-7.33				mg/L
	Br	81	9924.257	1733.56				mg/L
	P	31	15199.767	3114.39				mg/L
	S	34	231106.039	28744.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.942			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.574			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.339			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.020			
⌈	Na	23					

Sample ID: QC Std 7
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 18, 2011 17:38:35

Approved: February 21, 2011

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\Elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Tuesday, February 22, 2011 08:41:27

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	622	2060	0.710	
Li	7.016	7.029	1587	2060	0.701	
Co	58.933	58.878	14276	1972	0.712	
Ce	139.905	139.929	33999	2015	0.725	
Tl	204.975	205.027	49701	2255	0.718	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.503
3.000	2.633
4.000	27.633
5.000	12.925
6.000	1.565
7.000	0.968
8.000	17.391
9.000	3.096
58.000	5.656
59.000	1.043
60.000	14.320
139.000	2.565
140.000	0.669
141.000	4.992
204.000	2.328
205.000	1.717
206.000	2.286

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Daily Performance Report

Sample ID: Sample
Sample Date/Time: Tuesday, February 22, 2011 08:46:04
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\021011\Sample.521
Tuning File: C:\Elandata\Tuning\06302008.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	60796.2	60796.178	863.879	1.4
	Rh	102.9	359273.2	359273.198	2440.129	0.7
	In	114.9	576966.3	576966.297	2299.713	0.4
	Pb	208.0	205269.0	205268.971	3237.049	1.6
	U	238.1	90.7	90.700	11.993	13.2
⌈>	Ba	137.9	292559.5	292559.492	1193.934	0.4
⌊	Ba++	69.0	4495.9	0.015	0.000	0.9
⌈>	Ce	139.9	366855.1	366855.071	2547.956	0.7
⌊	CeO	155.9	8309.6	0.023	0.000	1.0
	Bkgd	220.0	9.6	9.600	1.710	17.8
	Ar2	79.9	4901535.7	4901535.695	49625.474	1.0

Current Optimization File Data

Current Value	Description
0.95	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1834.38	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	7.5	4793.5
Co	59	33	8.0	129402.2
Rh	103	33	9.0	140311.8
Pb	208	33	11.3	172960.6

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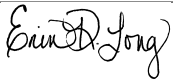

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, February 22, 2011 09:29:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17766.034					ug/L
|	Be	9	3.333					ug/L
|	Al	27	2550.350					ug/L
⌊>	Sc	45	307387.203					ug/L
⌈	Ti	49	53.339					ug/L
|	V	51	2644.773					ug/L
|	Cr	52	8652.163					ug/L
|	Cr	53	236.693					ug/L
|	Mn	55	329.342					ug/L
|	Co	59	61.667					ug/L
|	Ni	60	49.667					ug/L
|	Cu	65	109.002					ug/L
|	Zn	66	446.348					ug/L
|>	Ge	72	522526.782					ug/L
|	As	75	-188.650					ug/L
|	Se	77	66.667					ug/L
|	Se	82	-5.861					ug/L
⌊	Rb	85	23.667					mg/L
	Y	89	347782.183					ug/L
	Rh	103	10.333					ug/L
⌈	Mo	98	16.169					ug/L
|	Ag	107	44.667					ug/L
|	Cd	114	4.796					ug/L
|>	In	115	392525.443					ug/L
|	Sn	118	84.134					ug/L
⌊	Sb	123	48.655					ug/L
⌈	Ba	135	16.000					ug/L
|	Ce	140	26.669					ug/L
⌊>	Tb	159	502905.525					ug/L
⌈	Ho	165	16.668					ug/L
|	Tl	203	15.667					ug/L
|	Tl	205	16.668					ug/L
|	Pb	206	391.012					ug/L
|	Pb	207	334.342					ug/L
|	Pb	208	1553.396					ug/L
|	U	238	17.334					ug/L
⌊>	Bi	209	496287.267					ug/L

Sample ID: Blank
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⌈	Na	23	20155.659	mg/L
|	Mg	24	296.701	mg/L
|	K	39	578006.105	mg/L
|	Ca	43	246.695	mg/L
|	Fe	54	49624.891	mg/L
|	Fe	57	8247.558	mg/L
⌊>	Sc-1	45	307387.203	mg/L
	Cl	35	19016.070	mg/L
	Kr	83	60.667	mg/L
	Br	81	8610.376	mg/L
	P	31	13395.903	mg/L
	S	34	187980.977	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Blank
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Tuesday, February 22, 2011 09:32:00

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, February 22, 2011 09:36:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15962.911	-0.01				ug/L
|	Be	9	14.000	0.00				ug/L
|	Al	27	3700.700	0.00				ug/L
⌊>	Sc	45	326305.349	326305.35				ug/L
⌈	Ti	49	46.671	-0.00				ug/L
|	V	51	2622.721	-0.00				ug/L
|	Cr	52	8503.366	-0.00				ug/L
|	Cr	53	253.362	0.00				ug/L
|	Mn	55	321.342	-0.00				ug/L
|	Co	59	68.001	0.00				ug/L
|	Ni	60	50.001	0.00				ug/L
|	Cu	65	99.668	-0.00				ug/L
|	Zn	66	472.016	0.00				ug/L
|>	Ge	72	524106.425	524106.42				ug/L
|	As	75	-201.195	-0.00				ug/L
|	Se	77	66.667	-0.00				ug/L
|	Se	82	-0.145	0.00				ug/L
⌊	Rb	85	21.334	-0.00				mg/L
	Y	89	346744.687	-1037.50				ug/L
	Rh	103	11.333	1.00				ug/L
⌈	Mo	98	14.534	-0.00				ug/L
|	Ag	107	42.001	-0.00				ug/L
|	Cd	114	-0.778	-0.00				ug/L
|>	In	115	399117.039	399117.04				ug/L
|	Sn	118	80.134	-0.00				ug/L
⌊	Sb	123	36.574	-0.00				ug/L
⌈	Ba	135	15.667	-0.00				ug/L
|	Ce	140	3.334	-0.00				ug/L
⌊>	Tb	159	511401.754	511401.75				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	19.334	0.00				ug/L
|	Tl	205	30.003	0.00				ug/L
|	Pb	206	375.344	-0.00				ug/L
|	Pb	207	353.343	0.00				ug/L
|	Pb	208	1535.061	-0.00				ug/L
|	U	238	12.000	-0.00				ug/L
⌊>	Bi	209	493041.912	493041.91				ug/L

Sample ID: Standard 1
Report Date/Time: Tuesday, February 22, 2011 09:38:45
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⌈	Na	23	20272.579	-0.00		mg/L
|	Mg	24	293.367	-0.00		mg/L
|	K	39	560812.435	-0.16		mg/L
|	Ca	43	216.691	-0.00		mg/L
|	Fe	54	48479.926	-0.01		mg/L
|	Fe	57	7843.868	-0.00		mg/L
⌊>	Sc-1	45	326305.349	326305.35		mg/L
	Cl	35	18498.428	-517.64		mg/L
	Kr	83	55.001	-5.67		mg/L
	Br	81	8664.424	54.05		mg/L
	P	31	12641.331	-754.57		mg/L
	S	34	187869.773	-111.20		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Tuesday, February 22, 2011 09:38:45
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Tuesday, February 22, 2011 09:38:45

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, February 22, 2011 09:43:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19569.295	0.01				ug/L
|	Be	9	122.001	0.00				ug/L
|	Al	27	5734.982	0.01				ug/L
⌊>	Sc	45	311913.696	311913.70				ug/L
⌈	Ti	49	556.738	0.00				ug/L
|	V	51	6621.715	0.01				ug/L
|	Cr	52	11969.947	0.01				ug/L
|	Cr	53	563.406	0.00				ug/L
|	Mn	55	5908.471	0.01				ug/L
|	Co	59	4374.000	0.01				ug/L
|	Ni	60	907.384	0.00				ug/L
|	Cu	65	1081.069	0.00				ug/L
|	Zn	66	1333.102	0.00				ug/L
|>	Ge	72	507089.463	507089.46				ug/L
|	As	75	278.199	0.00				ug/L
|	Se	77	111.334	0.00				ug/L
|	Se	82	39.531	0.00				ug/L
⌊	Rb	85	46.667	0.00				mg/L
	Y	89	337325.000	-10457.18				ug/L
	Rh	103	7.667	-2.67				ug/L
⌈	Mo	98	2067.810	0.01				ug/L
|	Ag	107	1987.217	0.00				ug/L
|	Cd	114	474.069	0.00				ug/L
|>	In	115	398034.376	398034.38				ug/L
|	Sn	118	1756.688	0.00				ug/L
⌊	Sb	123	1638.477	0.00				ug/L
⌈	Ba	135	662.362	0.00				ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	507236.997	507237.00				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	2788.083	0.01				ug/L
|	Tl	205	6706.252	0.01				ug/L
|	Pb	206	2643.376	0.00				ug/L
|	Pb	207	2407.314	0.00				ug/L
|	Pb	208	10911.132	0.02				ug/L
|	U	238	13950.530	0.03				ug/L
⌊>	Bi	209	493623.130	493623.13				ug/L

Sample ID: Standard 2
Report Date/Time: Tuesday, February 22, 2011 09:45:30
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⌈	Na	23	273549.101	0.81		mg/L
|	Mg	24	163102.428	0.52		mg/L
|	K	39	974222.894	1.25		mg/L
|	Ca	43	976.813	0.00		mg/L
|	Fe	54	72735.787	0.07		mg/L
|	Fe	57	18562.407	0.03		mg/L
⌊>	Sc-1	45	311913.696	311913.70		mg/L
	Cl	35	19139.638	123.57		mg/L
	Kr	83	54.001	-6.67		mg/L
	Br	81	8968.698	358.32		mg/L
	P	31	11863.046	-1532.86		mg/L
	S	34	201153.557	13172.58		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
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Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, February 22, 2011 09:50:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16163.198	-0.00				ug/L
|	Be	9	12941.039	0.04	50.0000	2.473	4.947	ug/L
|	Al	27	304067.842	1.02	50.0000	5.786	11.571	ug/L
⌊>	Sc	45	297019.032	297019.03				ug/L
⌈	Ti	49	63648.298	0.13	100.0000	2.417	2.417	ug/L
|	V	51	498325.084	1.01	50.0000	1.428	2.856	ug/L
|	Cr	52	432554.594	0.87	50.0000	1.186	2.372	ug/L
|	Cr	53	51303.069	0.10	50.0000	0.875	1.749	ug/L
|	Mn	55	647355.386	1.32	50.0000	1.139	2.279	ug/L
|	Co	59	521486.397	1.06	50.0000	0.535	1.069	ug/L
|	Ni	60	110561.401	0.23	50.0000	1.005	2.010	ug/L
|	Cu	65	113263.305	0.23	50.0000	0.541	1.082	ug/L
|	Zn	66	66813.796	0.14	50.0000	0.266	0.532	ug/L
| >	Ge	72	490636.247	490636.25				ug/L
|	As	75	54399.385	0.11	50.0000	0.486	0.973	ug/L
|	Se	77	3978.792	0.01	50.0000	2.319	4.637	ug/L
|	Se	82	5021.535	0.01	50.0000	0.874	1.748	ug/L
⌊	Rb	85	2165.256	0.00				mg/L
	Y	89	327857.759	-19924.42				ug/L
	Rh	103	32.000	21.67				ug/L
⌈	Mo	98	249441.241	0.66	100.0000	1.236	1.236	ug/L
|	Ag	107	236500.289	0.63	50.0000	0.405	0.811	ug/L
|	Cd	114	55505.152	0.15	50.0000	1.306	2.613	ug/L
| >	In	115	378064.151	378064.15				ug/L
|	Sn	118	200423.883	0.53	50.0000	0.749	1.497	ug/L
⌊	Sb	123	193693.498	0.51	50.0000	0.878	1.755	ug/L
⌈	Ba	135	82816.765	0.17	50.0000	0.628	1.256	ug/L
|	Ce	140	60.006	0.00				ug/L
⌊>	Tb	159	482664.117	482664.12				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	326631.953	0.70	50.0000	0.907	1.814	ug/L
|	Tl	205	794719.494	1.69	50.0000	2.532	5.064	ug/L
|	Pb	206	267053.888	0.57	50.0000	2.619	5.239	ug/L
|	Pb	207	250003.183	0.53	50.0000	2.256	4.512	ug/L
|	Pb	208	1112788.769	2.37	50.0000	2.070	4.139	ug/L
|	U	238	1681334.994	3.58	50.0000	2.934	5.868	ug/L
⌊>	Bi	209	469653.931	469653.93				ug/L

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⌈	Na	23	28103773.621	94.75	5.0000	0.338	6.763	mg/L
|	Mg	24	17651996.081	59.51	5.0000	0.211	4.223	mg/L
|	K	39	41906570.402	139.41	5.0000	0.272	5.435	mg/L
|	Ca	43	93807.307	0.32	5.0000	0.285	5.700	mg/L
|	Fe	54	3166282.174	10.52	5.0000	0.378	7.566	mg/L
|	Fe	57	1310715.732	4.39	5.0000	0.220	4.403	mg/L
⌊>	Sc-1	45	297019.032	297019.03				mg/L
	Cl	35	20813.641	1797.57				mg/L
	Kr	83	54.001	-6.67				mg/L
	Br	81	8116.633	-493.74				mg/L
	P	31	10689.062	-2706.84				mg/L
	S	34	207867.049	19886.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
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Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, February 22, 2011 09:56:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16463.642	-0.00				ug/L
|	Be	9	25119.582	0.08	98.4868	2.743	2.785	ug/L
|	Al	27	586145.764	1.97	98.3412	5.449	5.541	ug/L
|>	Sc	45	296864.452	296864.45				ug/L
⌈	Ti	49	124206.778	0.26	201.4975	8.646	4.291	ug/L
|	V	51	958294.984	2.03	100.1360	0.261	0.260	ug/L
|	Cr	52	810819.628	1.70	99.2068	0.721	0.727	ug/L
|	Cr	53	94571.208	0.20	97.9754	1.413	1.442	ug/L
|	Mn	55	1242713.775	2.63	99.9500	1.302	1.303	ug/L
|	Co	59	987630.323	2.09	99.2603	1.082	1.090	ug/L
|	Ni	60	203112.072	0.43	97.7404	0.991	1.013	ug/L
|	Cu	65	211247.809	0.45	98.5269	1.370	1.390	ug/L
|	Zn	66	125393.530	0.27	99.0854	0.577	0.582	ug/L
|>	Ge	72	471573.115	471573.11				ug/L
|	As	75	103155.786	0.22	99.2469	1.870	1.884	ug/L
|	Se	77	7430.095	0.02	99.0316	3.882	3.920	ug/L
|	Se	82	9427.784	0.02	98.8198	2.865	2.899	ug/L
⌊	Rb	85	4149.902	0.01				mg/L
	Y	89	319522.764	-28259.42				ug/L
	Rh	103	46.667	36.33				ug/L
⌈	Mo	98	482478.132	1.31	199.0799	5.896	2.962	ug/L
|	Ag	107	453039.372	1.23	99.0588	2.562	2.586	ug/L
|	Cd	114	107909.944	0.29	99.7980	1.800	1.804	ug/L
|>	In	115	369077.209	369077.21				ug/L
|	Sn	118	390868.748	1.06	99.9488	0.977	0.978	ug/L
⌊	Sb	123	372317.484	1.01	99.2248	1.363	1.373	ug/L
⌈	Ba	135	159346.462	0.33	98.3745	1.645	1.672	ug/L
|	Ce	140	43.338	0.00				ug/L
|>	Tb	159	479703.679	479703.68				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	645790.793	1.42	100.9527	3.075	3.046	ug/L
|	Tl	205	1622880.403	3.56	102.4906	0.774	0.756	ug/L
|	Pb	206	524070.253	1.15	100.5628	2.503	2.489	ug/L
|	Pb	207	495855.302	1.09	101.0902	2.052	2.030	ug/L
|	Pb	208	2197059.286	4.82	100.8667	2.291	2.271	ug/L
|	U	238	3148625.432	6.91	98.1813	4.690	4.777	ug/L
|>	Bi	209	455594.613	455594.61				ug/L

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Na	23	55470783.609	187.06	9.9371	0.536	5.393	mg/L	
Mg	24	35205900.365	118.79	9.9928	0.555	5.553	mg/L	
K	39	83234545.684	278.53	9.9972	0.057	0.568	mg/L	
Ca	43	183934.117	0.62	9.8955	0.304	3.072	mg/L	
Fe	54	6001462.786	20.06	9.7590	0.222	2.276	mg/L	
Fe	57	2397070.062	8.06	9.5727	0.598	6.251	mg/L	
> Sc-1	45	296864.452	296864.45				mg/L	
Cl	35	19444.219	428.15				mg/L	
Kr	83	54.334	-6.33				mg/L	
Br	81	7716.312	-894.06				mg/L	
P	31	10895.946	-2499.96				mg/L	
S	34	201083.966	13102.99				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209					
Na	23					

Sample ID: Standard 4
Report Date/Time: Tuesday, February 22, 2011 09:59:02

Approved: February 23, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Tuesday, February 22, 2011 09:59:02

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, February 22, 2011 10:03:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16897.722	-0.00				ug/L
|	Be	9	12812.872	0.04	50.2075	1.550	3.087	ug/L
|	Al	27	308323.283	1.03	51.4145	3.575	6.954	ug/L
⌊>	Sc	45	297031.793	297031.79				ug/L
⌈	Ti	49	61410.847	0.13	98.7711	3.224	3.264	ug/L
|	V	51	493089.505	1.03	50.9609	1.309	2.568	ug/L
|	Cr	52	428641.875	0.88	51.5328	1.584	3.073	ug/L
|	Cr	53	50003.258	0.10	51.2964	3.058	5.962	ug/L
|	Mn	55	645615.980	1.36	51.4601	1.133	2.201	ug/L
|	Co	59	507472.488	1.07	50.5584	1.050	2.076	ug/L
|	Ni	60	107359.397	0.23	51.2167	1.304	2.545	ug/L
|	Cu	65	108406.903	0.23	50.0910	1.052	2.100	ug/L
|	Zn	66	64749.261	0.14	50.4355	0.524	1.039	ug/L
| >	Ge	72	475711.015	475711.01				ug/L
|	As	75	53631.634	0.11	51.2237	0.992	1.937	ug/L
|	Se	77	3974.790	0.01	52.0386	0.871	1.674	ug/L
|	Se	82	5026.171	0.01	52.2325	0.998	1.910	ug/L
⌊	Rb	85	2166.256	0.00				mg/L
	Y	89	323088.909	-24693.27				ug/L
	Rh	103	30.000	19.67				ug/L
⌈	Mo	98	247382.462	0.66	99.9239	1.341	1.342	ug/L
|	Ag	107	236573.860	0.63	50.6337	0.550	1.087	ug/L
|	Cd	114	53368.019	0.14	48.3033	0.984	2.037	ug/L
| >	In	115	376999.135	376999.14				ug/L
|	Sn	118	196896.185	0.52	49.2881	0.652	1.322	ug/L
⌊	Sb	123	188993.377	0.50	49.3035	0.228	0.462	ug/L
⌈	Ba	135	81011.740	0.16	48.3196	0.685	1.418	ug/L
|	Ce	140	113.345	0.00				ug/L
⌊>	Tb	159	496489.928	496489.93				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	341136.801	0.71	50.3583	1.121	2.226	ug/L
|	Tl	205	846877.428	1.76	50.5388	2.275	4.501	ug/L
|	Pb	206	281966.839	0.58	51.0666	0.338	0.662	ug/L
|	Pb	207	247863.249	0.51	47.7002	0.817	1.712	ug/L
|	Pb	208	1148300.889	2.38	49.7670	0.318	0.639	ug/L
|	U	238	1671521.003	3.47	49.2315	1.191	2.420	ug/L
⌊>	Bi	209	482217.348	482217.35				ug/L

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⌈	Na	23	28472155.438	95.84	5.0899	0.186	3.648	mg/L
|	Mg	24	17968908.039	60.51	5.0880	0.098	1.917	mg/L
|	K	39	44077168.257	146.58	5.2589	0.174	3.313	mg/L
|	Ca	43	95422.940	0.32	5.1330	0.228	4.445	mg/L
|	Fe	54	3203139.652	10.63	5.1721	0.210	4.056	mg/L
|	Fe	57	1321689.257	4.43	5.2548	0.259	4.935	mg/L
⌊>	Sc-1	45	297031.793	297031.79				mg/L
	Cl	35	20403.474	1387.40				mg/L
	Kr	83	58.001	-2.67				mg/L
	Br	81	7982.521	-627.85				mg/L
	P	31	12526.564	-869.34				mg/L
	S	34	221905.158	33924.18				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9	100.415				
|	Al	27	102.829				
⌊>	Sc	45					
⌈	Ti	49	98.771				
|	V	51	101.922				
|	Cr	52	103.066				
|	Cr	53					
|	Mn	55	102.920				
|	Co	59	101.117				
|	Ni	60	102.433				
|	Cu	65	100.182				
|	Zn	66	100.871				
|>	Ge	72		91.041			
|	As	75	102.447				
|	Se	77					
|	Se	82	104.465				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	101.267				
|	Cd	114	96.607				
|>	In	115		96.045			
|	Sn	118					
⌊	Sb	123	98.607				
⌈	Ba	135	96.639				
|	Ce	140					
⌊>	Tb	159		98.724			
⌈	Ho	165					
|	Tl	203	100.717				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.534				
|	U	238	98.463				
⌊>	Bi	209		97.165			
⌈	Na	23	101.798				

Sample ID: QC Std 1
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|	Mg	24	101.760
|	K	39	105.178
|	Ca	43	102.659
|	Fe	54	103.442
|	Fe	57	105.096
|>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
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Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, February 22, 2011 10:10:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16864.384	-0.00				ug/L
|	Be	9	7.333	0.00	-0.0266	0.004	14.400	ug/L
|	Al	27	3150.501	0.00	0.0078	0.064	828.657	ug/L
⌊>	Sc	45	299040.574	299040.57				ug/L
⌈	Ti	49	80.008	0.00	0.0860	0.039	45.408	ug/L
|	V	51	2444.203	-0.00	0.0045	0.002	52.240	ug/L
|	Cr	52	8022.964	0.00	-0.0087	0.018	204.209	ug/L
|	Cr	53	220.025	0.00	0.0790	0.056	70.618	ug/L
|	Mn	55	314.675	0.00	-0.0175	0.001	6.574	ug/L
|	Co	59	69.668	0.00	-0.0021	0.001	46.177	ug/L
|	Ni	60	51.001	0.00	0.0178	0.006	32.399	ug/L
|	Cu	65	107.335	0.00	-0.0205	0.004	21.529	ug/L
|	Zn	66	439.347	0.00	-0.2452	0.016	6.501	ug/L
|>	Ge	72	483678.452	483678.45				ug/L
|	As	75	-148.637	0.00	0.0130	0.022	165.752	ug/L
|	Se	77	67.334	0.00	-0.1097	0.064	58.630	ug/L
|	Se	82	4.191	0.00	0.0596	0.022	36.528	ug/L
⌊	Rb	85	19.667	-0.00				mg/L
	Y	89	323720.941	-24061.24				ug/L
	Rh	103	11.000	0.67				ug/L
⌈	Mo	98	124.130	0.00	0.0588	0.005	8.490	ug/L
|	Ag	107	28.000	-0.00	0.0031	0.001	41.294	ug/L
|	Cd	114	0.888	-0.00	-0.0060	0.006	103.431	ug/L
|>	In	115	378843.387	378843.39				ug/L
|	Sn	118	251.336	0.00	0.0460	0.002	3.629	ug/L
⌊	Sb	123	409.714	0.00	0.1015	0.007	6.976	ug/L
⌈	Ba	135	14.667	-0.00	0.0221	0.002	7.622	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	495579.670	495579.67				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	29.667	0.00	0.0022	0.001	50.448	ug/L
|	Tl	205	40.004	0.00	0.0114	0.001	10.861	ug/L
|	Pb	206	401.679	0.00	0.0043	0.004	89.606	ug/L
|	Pb	207	330.342	0.00	0.0104	0.003	24.607	ug/L
|	Pb	208	1553.063	0.00	0.0048	0.000	5.067	ug/L
|	U	238	78.334	0.00	0.0008	0.000	41.025	ug/L
⌊>	Bi	209	480862.887	480862.89				ug/L

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⌈	Na	23	21675.651	0.01	-0.0028	0.000	3.532	mg/L
|	Mg	24	536.735	0.00	-0.0039	0.000	0.420	mg/L
|	K	39	598780.704	0.12	-0.0004	0.002	423.783	mg/L
|	Ca	43	273.364	0.00	0.0043	0.002	55.468	mg/L
|	Fe	54	44447.608	-0.01	-0.0014	0.003	204.645	mg/L
|	Fe	57	7226.669	-0.00	-0.0020	0.002	99.983	mg/L
⌊>	Sc-1	45	299040.574	299040.57				mg/L
	Cl	35	19520.373	504.30				mg/L
	Kr	83	54.667	-6.00				mg/L
	Br	81	7911.132	-699.24				mg/L
	P	31	11371.813	-2024.09				mg/L
	S	34	209648.252	21667.27				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.565			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.514			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.543			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.892			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, February 22, 2011 10:17:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16797.572	0.00				ug/L
|	Be	9	8.667	0.00	-0.0201	0.013	63.445	ug/L
|	Al	27	2250.254	-0.00	-0.1308	0.036	27.604	ug/L
⌊>	Sc	45	289738.010	289738.01				ug/L
⌈	Ti	49	80.008	0.00	0.0869	0.031	36.019	ug/L
|	V	51	6437.721	0.01	0.4143	0.024	5.691	ug/L
|	Cr	52	15232.413	0.02	0.8652	0.032	3.751	ug/L
|	Cr	53	986.814	0.00	0.8575	0.066	7.726	ug/L
|	Mn	55	7434.837	0.01	0.5429	0.001	0.245	ug/L
|	Co	59	4309.638	0.01	0.4147	0.003	0.660	ug/L
|	Ni	60	3744.406	0.01	1.7560	0.057	3.246	ug/L
|	Cu	65	1998.553	0.00	0.8429	0.005	0.584	ug/L
|	Zn	66	8809.967	0.02	6.2631	0.114	1.824	ug/L
|>	Ge	72	482196.898	482196.90				ug/L
|	As	75	263.566	0.00	0.3999	0.025	6.188	ug/L
|	Se	77	103.334	0.00	0.3673	0.356	96.952	ug/L
|	Se	82	31.134	0.00	0.3358	0.042	12.502	ug/L
⌊	Rb	85	24.000	0.00				mg/L
	Y	89	325030.054	-22752.13				ug/L
	Rh	103	7.333	-3.00				ug/L
⌈	Mo	98	61.832	0.00	0.0338	0.005	13.713	ug/L
|	Ag	107	1965.546	0.01	0.4162	0.007	1.771	ug/L
|	Cd	114	217.305	0.00	0.1893	0.006	3.323	ug/L
|>	In	115	378417.709	378417.71				ug/L
|	Sn	118	164.135	0.00	0.0243	0.001	5.801	ug/L
⌊	Sb	123	1677.398	0.00	0.4311	0.004	0.899	ug/L
⌈	Ba	135	1246.424	0.00	0.7726	0.028	3.631	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	486219.766	486219.77				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	593.024	0.00	0.0868	0.001	1.245	ug/L
|	Tl	205	1443.582	0.00	0.0967	0.008	8.336	ug/L
|	Pb	206	2634.373	0.00	0.4175	0.023	5.412	ug/L
|	Pb	207	2359.969	0.00	0.4092	0.011	2.740	ug/L
|	Pb	208	10806.089	0.02	0.4142	0.012	3.003	ug/L
|	U	238	13494.904	0.03	0.4027	0.007	1.738	ug/L
⌊>	Bi	209	474268.213	474268.21				ug/L

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Na	23	15593.724	-0.01	-0.0038	0.000	2.569	mg/L
Mg	24	423.385	0.00	-0.0039	0.000	0.698	mg/L
K	39	575425.600	0.11	-0.0010	0.001	66.359	mg/L
Ca	43	206.690	-0.00	0.0011	0.004	330.067	mg/L
Fe	54	44455.101	-0.01	0.0009	0.003	347.744	mg/L
Fe	57	7149.939	-0.00	-0.0014	0.001	97.468	mg/L
> Sc-1	45	289738.010	289738.01				mg/L
Cl	35	17891.331	-1124.74				mg/L
Kr	83	61.334	0.67				mg/L
Br	81	7983.186	-627.19				mg/L
P	31	9422.460	-3973.44				mg/L
S	34	189971.534	1990.56				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.583				
Cr	52	108.154				
Cr	53					
Mn	55	108.576				
Co	59	103.685				
Ni	60	109.751				
Cu	65	105.366				
Zn	66	100.210				
> Ge	72		92.282			
As	75	99.983				
Se	77					
Se	82	83.952				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	104.062				
Cd	114	94.635				
> In	115		96.406			
Sn	118					
Sb	123	107.777				
Ba	135	103.007				
Ce	140					
> Tb	159		96.682			
Ho	165					
Tl	203	108.527				
Tl	205					
Pb	206					
Pb	207					
Pb	208	103.562				
U	238	100.673				
> Bi	209		95.563			
Na	23					

Sample ID: QC Std 3
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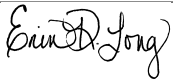

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 3
Report Date/Time: Tuesday, February 22, 2011 10:20:00

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, February 22, 2011 10:24:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16129.677	-0.00				ug/L
|	Be	9	9.333	0.00	-0.0174	0.018	102.874	ug/L
|	Al	27	25760075.617	88.51	4424.8547	97.818	2.211	ug/L
⌊>	Sc	45	291165.923	291165.92				ug/L
⌈	Ti	49	59747.246	0.13	97.4228	1.655	1.699	ug/L
|	V	51	2233.504	-0.00	-0.0100	0.024	241.743	ug/L
|	Cr	52	8240.811	0.00	0.0479	0.008	17.710	ug/L
|	Cr	53	1443.583	0.00	1.3618	0.187	13.733	ug/L
|	Mn	55	3994.171	0.01	0.2809	0.006	2.055	ug/L
|	Co	59	2002.554	0.00	0.1935	0.008	4.178	ug/L
|	Ni	60	1205.752	0.00	0.5777	0.057	9.938	ug/L
|	Cu	65	831.376	0.00	0.3210	0.033	10.236	ug/L
|	Zn	66	958.056	0.00	0.1805	0.058	32.132	ug/L
| >	Ge	72	469244.864	469244.86				ug/L
|	As	75	-158.463	0.00	-0.0012	0.047	3974.015	ug/L
|	Se	77	134.001	0.00	0.8153	0.437	53.660	ug/L
|	Se	82	1.478	0.00	0.0317	0.056	177.801	ug/L
⌊	Rb	85	1828.852	0.00				mg/L
	Y	89	296919.597	-50862.59				ug/L
	Rh	103	14.000	3.67				ug/L
⌈	Mo	98	236488.340	0.66	99.8934	0.458	0.459	ug/L
|	Ag	107	90.335	0.00	0.0173	0.000	0.860	ug/L
|	Cd	114	82.079	0.00	0.0709	0.031	43.037	ug/L
| >	In	115	360464.664	360464.66				ug/L
|	Sn	118	613.486	0.00	0.1440	0.022	15.291	ug/L
⌊	Sb	123	249.537	0.00	0.0632	0.006	8.712	ug/L
⌈	Ba	135	40.000	0.00	0.0385	0.002	5.441	ug/L
|	Ce	140	246.694	0.00				ug/L
⌊>	Tb	159	471123.419	471123.42				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	86.335	0.00	0.0111	0.001	9.113	ug/L
|	Tl	205	166.685	0.00	0.0193	0.002	9.349	ug/L
|	Pb	206	448.348	0.00	0.0157	0.006	39.648	ug/L
|	Pb	207	389.678	0.00	0.0249	0.005	19.345	ug/L
|	Pb	208	1775.746	0.00	0.0174	0.000	2.752	ug/L
|	U	238	30.334	0.00	-0.0006	0.000	43.102	ug/L
⌊>	Bi	209	463308.076	463308.08				ug/L

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Na	23	69941422.811	240.41	12.7719	0.566	4.433	mg/L	
Mg	24	17418084.873	59.88	5.0352	0.182	3.621	mg/L	
K	39	43032578.866	146.00	5.2381	0.121	2.309	mg/L	
Ca	43	271014.674	0.93	14.9081	0.886	5.943	mg/L	
Fe	54	7527019.302	25.72	12.5111	0.596	4.762	mg/L	
Fe	57	2948750.718	10.11	12.0084	0.646	5.378	mg/L	
> Sc-1	45	291165.923	291165.92				mg/L	
Cl	35	2031992.879	2012976.81				mg/L	
Kr	83	60.001	-0.67				mg/L	
Br	81	7355.374	-1255.00				mg/L	
P	31	1753326.040	1739930.14				mg/L	
S	34	362807.640	174826.66				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		89.803			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		91.832			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		93.680			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		93.355			
Na	23					

Sample ID: QC Std 4
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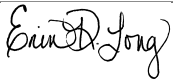

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
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Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, February 22, 2011 10:31:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18767.620	0.01				ug/L
|	Be	9	26999.079	0.10	113.9327	8.418	7.389	ug/L
|	Al	27	25727955.822	93.26	4662.3066	383.295	8.221	ug/L
⌊>	Sc	45	276596.995	276596.99				ug/L
⌈	Ti	49	58151.135	0.13	96.4829	2.776	2.877	ug/L
|	V	51	939084.144	2.03	100.3671	1.353	1.348	ug/L
|	Cr	52	808186.789	1.74	101.1588	1.843	1.821	ug/L
|	Cr	53	96425.823	0.21	102.1809	3.001	2.937	ug/L
|	Mn	55	1218067.333	2.64	100.1991	0.747	0.746	ug/L
|	Co	59	975453.161	2.12	100.2684	0.965	0.962	ug/L
|	Ni	60	202358.105	0.44	99.5961	1.349	1.354	ug/L
|	Cu	65	210475.445	0.46	100.4022	1.950	1.942	ug/L
|	Zn	66	125580.572	0.27	101.5083	1.214	1.196	ug/L
| >	Ge	72	461065.775	461065.77				ug/L
|	As	75	103445.720	0.22	101.7858	2.432	2.389	ug/L
|	Se	77	7602.889	0.02	103.6756	1.148	1.108	ug/L
|	Se	82	9389.046	0.02	100.6470	1.678	1.667	ug/L
⌊	Rb	85	1799.847	0.00				mg/L
	Y	89	295429.640	-52352.54				ug/L
	Rh	103	49.334	39.00				ug/L
⌈	Mo	98	233286.740	0.65	98.3352	0.116	0.118	ug/L
|	Ag	107	460960.883	1.28	102.9533	7.653	7.434	ug/L
|	Cd	114	107570.385	0.30	101.6403	2.105	2.071	ug/L
| >	In	115	361218.331	361218.33				ug/L
|	Sn	118	524.014	0.00	0.1203	0.005	4.054	ug/L
⌊	Sb	123	364926.561	1.01	99.3629	1.219	1.226	ug/L
⌈	Ba	135	154193.301	0.33	98.3004	0.201	0.204	ug/L
|	Ce	140	243.361	0.00				ug/L
⌊>	Tb	159	464479.585	464479.59				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	649687.327	1.44	102.4613	3.318	3.238	ug/L
|	Tl	205	1587411.615	3.52	101.2343	3.951	3.903	ug/L
|	Pb	206	544570.570	1.21	105.4646	3.180	3.015	ug/L
|	Pb	207	483113.746	1.07	99.3847	0.729	0.733	ug/L
|	Pb	208	2219460.198	4.91	102.8357	1.055	1.026	ug/L
|	U	238	3123187.378	6.92	98.2514	1.315	1.338	ug/L
⌊>	Bi	209	451403.202	451403.20				ug/L

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⌈	Na	23	70102307.931	253.78	13.4825	0.667	4.945	mg/L
|	Mg	24	17286792.776	62.60	5.2640	0.248	4.717	mg/L
|	K	39	40522446.151	144.79	5.1947	0.211	4.057	mg/L
|	Ca	43	255805.658	0.92	14.8033	0.546	3.691	mg/L
|	Fe	54	7393275.459	26.63	12.9510	0.808	6.241	mg/L
|	Fe	57	2980999.009	10.77	12.7880	0.742	5.801	mg/L
⌊>	Sc-1	45	276596.995	276596.99				mg/L
	Cl	35	1983136.737	1964120.67				mg/L
	Kr	83	58.667	-2.00				mg/L
	Br	81	7250.628	-1359.75				mg/L
	P	31	1705927.335	1692531.43				mg/L
	S	34	346862.174	158881.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	100.367				
|	Cr	52	101.159				
|	Cr	53					
|	Mn	55	100.199				
|	Co	59	100.268				
|	Ni	60	99.596				
|	Cu	65	100.402				
|	Zn	66	101.508				
|>	Ge	72		88.238			
|	As	75	101.786				
|	Se	77					
|	Se	82	100.647				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	102.953				
|	Cd	114	101.640				
|>	In	115		92.024			
|	Sn	118					
⌊	Sb	123	99.363				
⌈	Ba	135	98.300				
|	Ce	140					
⌊>	Tb	159		92.359			
⌈	Ho	165					
|	Tl	203	102.461				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	102.836				
|	U	238	98.251				
⌊>	Bi	209		90.956			
⌈	Na	23					

Sample ID: QC Std 5
Report Date/Time: Tuesday, February 22, 2011 10:33:36

Approved: February 23, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Tuesday, February 22, 2011 10:33:36

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 22, 2011 10:38:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17198.112	0.00				ug/L
|	Be	9	12973.754	0.05	53.6316	5.032	9.383	ug/L
|	Al	27	292414.147	1.03	51.3474	2.733	5.322	ug/L
⌊>	Sc	45	282424.636	282424.64				ug/L
⌈	Ti	49	60481.731	0.13	98.1326	1.343	1.368	ug/L
|	V	51	470456.527	0.99	49.0494	1.729	3.525	ug/L
|	Cr	52	401589.299	0.84	48.6536	0.320	0.658	ug/L
|	Cr	53	46221.209	0.10	47.8237	1.150	2.405	ug/L
|	Mn	55	604917.674	1.28	48.6408	1.527	3.140	ug/L
|	Co	59	478642.352	1.02	48.1076	0.878	1.825	ug/L
|	Ni	60	99120.829	0.21	47.7054	0.635	1.331	ug/L
|	Cu	65	103782.217	0.22	48.3746	0.610	1.261	ug/L
|	Zn	66	62906.239	0.13	49.4248	0.803	1.625	ug/L
|>	Ge	72	471484.072	471484.07				ug/L
|	As	75	50654.325	0.11	48.8203	0.564	1.156	ug/L
|	Se	77	3782.049	0.01	49.9285	1.426	2.856	ug/L
|	Se	82	4742.047	0.01	49.7191	0.543	1.092	ug/L
⌊	Rb	85	1982.216	0.00				mg/L
	Y	89	308421.321	-39360.86				ug/L
	Rh	103	24.667	14.33				ug/L
⌈	Mo	98	235705.173	0.65	98.2255	1.939	1.974	ug/L
|	Ag	107	225607.254	0.62	49.8201	1.066	2.140	ug/L
|	Cd	114	51739.934	0.14	48.3125	1.639	3.392	ug/L
|>	In	115	365430.646	365430.65				ug/L
|	Sn	118	189155.717	0.52	48.8481	0.825	1.688	ug/L
⌊	Sb	123	183587.130	0.50	49.4169	1.004	2.031	ug/L
⌈	Ba	135	76695.758	0.16	47.8043	0.898	1.879	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	475220.985	475220.98				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	317804.079	0.68	48.2583	0.697	1.445	ug/L
|	Tl	205	781642.521	1.67	47.9718	0.967	2.016	ug/L
|	Pb	206	255845.970	0.54	47.6517	0.415	0.872	ug/L
|	Pb	207	238610.813	0.51	47.2303	0.558	1.182	ug/L
|	Pb	208	1086377.363	2.31	48.4323	0.481	0.993	ug/L
|	U	238	1610373.808	3.44	48.7911	0.559	1.145	ug/L
⌊>	Bi	209	468838.036	468838.04				ug/L

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Na	23	27604578.670	97.74	5.1908	0.104	2.007	mg/L
Mg	24	17480972.090	61.92	5.2066	0.081	1.555	mg/L
K	39	41173798.739	144.09	5.1695	0.172	3.321	mg/L
Ca	43	89258.954	0.32	5.0555	0.233	4.599	mg/L
Fe	54	2923874.246	10.21	4.9664	0.173	3.478	mg/L
Fe	57	1231412.673	4.34	5.1510	0.152	2.959	mg/L
Sc-1	45	282424.636	282424.64				mg/L
Cl	35	20719.443	1703.37				mg/L
Kr	83	55.667	-5.00				mg/L
Br	81	7233.958	-1376.42				mg/L
P	31	11245.657	-2150.25				mg/L
S	34	196351.329	8370.35				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	98.099				
Cr	52	97.307				
Cr	53					
Mn	55	97.282				
Co	59	96.215				
Ni	60	95.411				
Cu	65	96.749				
Zn	66	98.850				
Ge	72		90.232			
As	75	97.641				
Se	77					
Se	82	99.438				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.640				
Cd	114	96.625				
In	115		93.097			
Sn	118					
Sb	123	98.834				
Ba	135	95.609				
Ce	140					
Tb	159		94.495			
Ho	165					
Tl	203	96.517				
Tl	205					
Pb	206					
Pb	207					
Pb	208	96.865				
U	238	97.582				
Bi	209		94.469			
Na	23					

Sample ID: QC Std 6
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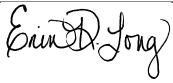
Approved: February 23, 2011



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 10:40:23

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 22, 2011 10:45:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17231.647	0.00				ug/L
|	Be	9	10.667	0.00	-0.0130	0.030	230.008	ug/L
|	Al	27	3167.174	0.00	0.0209	0.076	362.055	ug/L
⌊>	Sc	45	293323.635	293323.63				ug/L
⌈	Ti	49	56.673	0.00	0.0523	0.033	63.699	ug/L
|	V	51	2366.074	-0.00	0.0042	0.010	237.666	ug/L
|	Cr	52	8010.621	0.00	0.0199	0.008	40.871	ug/L
|	Cr	53	206.690	-0.00	0.0715	0.058	81.031	ug/L
|	Mn	55	345.676	0.00	-0.0142	0.002	12.213	ug/L
|	Co	59	69.334	0.00	-0.0019	0.001	29.262	ug/L
|	Ni	60	48.001	0.00	0.0171	0.006	33.305	ug/L
|	Cu	65	85.001	-0.00	-0.0294	0.007	23.678	ug/L
|	Zn	66	432.680	0.00	-0.2396	0.021	8.861	ug/L
|>	Ge	72	468960.181	468960.18				ug/L
|	As	75	-164.959	0.00	-0.0068	0.056	814.958	ug/L
|	Se	77	75.334	0.00	0.0257	0.039	151.049	ug/L
|	Se	82	-5.858	-0.00	-0.0445	0.116	260.583	ug/L
⌊	Rb	85	19.667	-0.00				mg/L
	Y	89	312265.890	-35516.29				ug/L
	Rh	103	8.667	-1.67				ug/L
⌈	Mo	98	126.614	0.00	0.0615	0.004	6.091	ug/L
|	Ag	107	46.334	0.00	0.0073	0.002	23.588	ug/L
|	Cd	114	2.598	-0.00	-0.0043	0.002	39.214	ug/L
|>	In	115	366863.799	366863.80				ug/L
|	Sn	118	211.336	0.00	0.0378	0.002	5.479	ug/L
⌊	Sb	123	281.706	0.00	0.0706	0.008	11.685	ug/L
⌈	Ba	135	16.667	0.00	0.0236	0.001	5.168	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	480280.922	480280.92				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	31.667	0.00	0.0027	0.000	5.176	ug/L
|	Tl	205	80.008	0.00	0.0140	0.002	15.837	ug/L
|	Pb	206	357.677	-0.00	-0.0011	0.001	122.179	ug/L
|	Pb	207	330.675	0.00	0.0131	0.003	23.653	ug/L
|	Pb	208	1474.058	0.00	0.0039	0.004	98.651	ug/L
|	U	238	81.001	0.00	0.0009	0.000	6.068	ug/L
⌊>	Bi	209	462213.195	462213.19				ug/L

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⌈	Na	23	21565.400	0.01	-0.0028	0.000	5.943	mg/L
|	Mg	24	643.419	0.00	-0.0039	0.000	1.402	mg/L
|	K	39	550484.680	-0.00	-0.0049	0.000	6.686	mg/L
|	Ca	43	170.019	-0.00	-0.0010	0.003	291.061	mg/L
|	Fe	54	42070.747	-0.02	-0.0039	0.002	56.580	mg/L
|	Fe	57	6546.135	-0.00	-0.0042	0.002	48.340	mg/L
⌊>	Sc-1	45	293323.635	293323.63				mg/L
	Cl	35	18741.547	-274.52				mg/L
	Kr	83	60.334	-0.33				mg/L
	Br	81	7489.474	-1120.90				mg/L
	P	31	10384.810	-3011.09				mg/L
	S	34	185223.026	-2757.95				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.749			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.462			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.501			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.134			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 10:47:38

Approved: February 23, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 10:47:38

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: PBW 40 WG357046-02

Sample Date/Time: Tuesday, February 22, 2011 10:52:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18333.578	0.00				ug/L
|	Be	9	7.333	0.00	-0.0276	0.011	39.916	ug/L
|	Al	27	23026.524	0.07	3.2107	0.230	7.165	ug/L
⌊>	Sc	45	308796.631	308796.63				ug/L
⌈	Ti	49	80.008	0.00	0.0874	0.058	66.892	ug/L
|	V	51	2587.901	0.00	0.0200	0.007	34.422	ug/L
|	Cr	52	9871.636	0.00	0.2173	0.030	13.739	ug/L
|	Cr	53	486.727	0.00	0.3496	0.075	21.508	ug/L
|	Mn	55	1992.552	0.00	0.1146	0.003	2.344	ug/L
|	Co	59	87.001	0.00	-0.0003	0.002	573.123	ug/L
|	Ni	60	303.341	0.00	0.1366	0.007	5.455	ug/L
|	Cu	65	281.007	0.00	0.0590	0.004	7.227	ug/L
|	Zn	66	4602.439	0.01	2.9912	0.066	2.222	ug/L
|>	Ge	72	482333.385	482333.39				ug/L
|	As	75	-133.725	0.00	0.0270	0.041	153.811	ug/L
|	Se	77	67.334	0.00	-0.1104	0.290	262.350	ug/L
|	Se	82	11.594	0.00	0.1361	0.093	68.266	ug/L
⌊	Rb	85	50.667	0.00				mg/L
	Y	89	322954.297	-24827.89				ug/L
	Rh	103	7.667	-2.67				ug/L
⌈	Mo	98	126.545	0.00	0.0589	0.003	5.015	ug/L
|	Ag	107	25.667	-0.00	0.0025	0.001	51.464	ug/L
|	Cd	114	2.956	-0.00	-0.0041	0.008	196.959	ug/L
|>	In	115	385601.556	385601.56				ug/L
|	Sn	118	559.216	0.00	0.1203	0.001	1.066	ug/L
⌊	Sb	123	381.923	0.00	0.0925	0.007	7.726	ug/L
⌈	Ba	135	88.335	0.00	0.0649	0.010	14.998	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	507911.590	507911.59				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	27.000	0.00	0.0017	0.000	22.404	ug/L
|	Tl	205	43.338	0.00	0.0115	0.000	3.509	ug/L
|	Pb	206	514.018	0.00	0.0212	0.001	3.900	ug/L
|	Pb	207	469.349	0.00	0.0339	0.004	12.577	ug/L
|	Pb	208	2073.104	0.00	0.0241	0.002	10.168	ug/L
|	U	238	101.668	0.00	0.0013	0.000	18.981	ug/L
⌊>	Bi	209	499754.211	499754.21				ug/L

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⌈	Na	23	49765.207	0.10	0.0019	0.000	17.866	mg/L
|	Mg	24	5942.365	0.02	-0.0024	0.000	6.162	mg/L
|	K	39	601288.573	0.07	-0.0024	0.001	51.512	mg/L
|	Ca	43	610.080	0.00	0.0213	0.002	11.373	mg/L
|	Fe	54	96897.658	0.15	0.0789	0.002	2.048	mg/L
|	Fe	57	9685.658	0.00	0.0065	0.001	14.350	mg/L
⌊>	Sc-1	45	308796.631	308796.63				mg/L
	Cl	35	24044.880	5028.81				mg/L
	Kr	83	46.667	-14.00				mg/L
	Br	81	8629.723	19.35				mg/L
	P	31	22427.794	9031.89				mg/L
	S	34	214979.101	26998.12				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.308			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.236			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.995			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.699			
⌈	Na	23					

Sample ID: PBW 40 WG357046-02
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 40 WG357046-02
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: LCSW 40 WG357046-03

Sample Date/Time: Tuesday, February 22, 2011 10:58:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18233.283	0.00				ug/L
|	Be	9	6533.474	0.02	24.6811	1.635	6.625	ug/L
|	Al	27	165781.426	0.53	26.4335	1.489	5.632	ug/L
⌊>	Sc	45	307627.511	307627.51				ug/L
⌈	Ti	49	76.675	0.00	0.0847	0.035	41.188	ug/L
|	V	51	254817.565	0.54	26.4878	0.690	2.603	ug/L
|	Cr	52	229003.439	0.47	27.3621	0.670	2.447	ug/L
|	Cr	53	25501.698	0.05	26.3529	0.668	2.533	ug/L
|	Mn	55	333534.741	0.71	26.8336	0.296	1.103	ug/L
|	Co	59	260173.292	0.55	26.1788	0.296	1.131	ug/L
|	Ni	60	54646.789	0.12	26.3294	0.292	1.109	ug/L
|	Cu	65	57295.582	0.12	26.7106	0.449	1.680	ug/L
|	Zn	66	34624.861	0.07	26.9763	0.530	1.966	ug/L
| >	Ge	72	470921.417	470921.42				ug/L
|	As	75	24813.500	0.05	24.0237	0.597	2.486	ug/L
|	Se	77	1709.480	0.00	22.0434	1.168	5.300	ug/L
|	Se	82	2146.794	0.00	22.5479	0.905	4.014	ug/L
⌊	Rb	85	52.334	0.00				mg/L
	Y	89	312751.922	-35030.26				ug/L
	Rh	103	21.000	10.67				ug/L
⌈	Mo	98	73.982	0.00	0.0389	0.001	1.324	ug/L
|	Ag	107	111981.009	0.30	24.0928	1.005	4.170	ug/L
|	Cd	114	26632.190	0.07	24.2260	0.970	4.004	ug/L
| >	In	115	375279.327	375279.33				ug/L
|	Sn	118	208.936	0.00	0.0360	0.001	3.382	ug/L
⌊	Sb	123	93700.855	0.25	24.5696	0.911	3.707	ug/L
⌈	Ba	135	41304.208	0.08	25.0326	0.634	2.533	ug/L
|	Ce	140	76.675	0.00				ug/L
⌊>	Tb	159	488960.691	488960.69				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	173425.099	0.36	25.7674	0.354	1.374	ug/L
|	Tl	205	423548.619	0.88	25.4438	1.219	4.790	ug/L
|	Pb	206	146969.399	0.31	26.7587	0.684	2.557	ug/L
|	Pb	207	129460.328	0.27	25.0525	0.723	2.885	ug/L
|	Pb	208	597082.381	1.24	26.0169	0.527	2.025	ug/L
|	U	238	883978.987	1.85	26.2058	0.948	3.619	ug/L
⌊>	Bi	209	479077.320	479077.32				ug/L

Sample ID: LCSW 40 WG357046-03
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⌈	Na	23	50398.452	0.10	0.0020	0.000	17.918	mg/L
|	Mg	24	10673.429	0.03	-0.0011	0.000	10.601	mg/L
|	K	39	593350.671	0.05	-0.0030	0.001	38.394	mg/L
|	Ca	43	390.047	0.00	0.0100	0.004	38.972	mg/L
|	Fe	54	95042.365	0.15	0.0765	0.003	4.105	mg/L
|	Fe	57	8030.706	-0.00	0.0003	0.002	755.512	mg/L
⌊>	Sc-1	45	307627.511	307627.51				mg/L
	Cl	35	25076.069	6060.00				mg/L
	Kr	83	54.001	-6.67				mg/L
	Br	81	8236.725	-373.65				mg/L
	P	31	21553.346	8157.44				mg/L
	S	34	204613.171	16632.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.124			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.606			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.227			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.532			
⌈	Na	23					

Sample ID: LCSW 40 WG357046-03
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 40 WG357046-03
Report Date/Time: Tuesday, February 22, 2011 11:01:07

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102048602

Sample Date/Time: Tuesday, February 22, 2011 11:05:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20504.629	0.01				ug/L
|	Be	9	14.667	0.00	-0.0001	0.041	27675.172	ug/L
|	Al	27	494082.104	1.59	79.4857	14.027	17.647	ug/L
⌊>	Sc	45	308419.066	308419.07				ug/L
⌈	Ti	49	656.754	0.00	1.0251	0.114	11.096	ug/L
|	V	51	4055.159	0.00	0.1803	0.040	22.087	ug/L
|	Cr	52	23076.855	0.03	1.8782	0.125	6.666	ug/L
|	Cr	53	1483.592	0.00	1.3968	0.065	4.670	ug/L
|	Mn	55	315855.639	0.67	25.3878	0.241	0.951	ug/L
|	Co	59	10091.193	0.02	1.0059	0.012	1.185	ug/L
|	Ni	60	2706.060	0.01	1.2971	0.013	1.019	ug/L
|	Cu	65	703.365	0.00	0.2591	0.010	3.721	ug/L
|	Zn	66	4603.105	0.01	3.0759	0.053	1.722	ug/L
|>	Ge	72	471289.623	471289.62				ug/L
|	As	75	-95.692	0.00	0.0603	0.035	58.002	ug/L
|	Se	77	78.667	0.00	0.0672	0.205	305.101	ug/L
|	Se	82	12.241	0.00	0.1443	0.087	60.620	ug/L
⌊	Rb	85	4107.218	0.01				mg/L
	Y	89	314122.559	-33659.62				ug/L
	Rh	103	8.333	-2.00				ug/L
⌈	Mo	98	336.991	0.00	0.1444	0.002	1.220	ug/L
|	Ag	107	68.668	0.00	0.0117	0.001	8.967	ug/L
|	Cd	114	4.590	-0.00	-0.0026	0.006	226.458	ug/L
|>	In	115	378696.157	378696.16				ug/L
|	Sn	118	454.544	0.00	0.0967	0.004	4.649	ug/L
⌊	Sb	123	117.659	0.00	0.0257	0.005	21.257	ug/L
⌈	Ba	135	16281.761	0.03	9.5805	0.152	1.590	ug/L
|	Ce	140	22510.900	0.04				ug/L
⌊>	Tb	159	503826.509	503826.51				ug/L
⌈	Ho	165	336.706	0.00				ug/L
|	Tl	203	104.002	0.00	0.0126	0.005	36.530	ug/L
|	Tl	205	246.695	0.00	0.0231	0.005	23.753	ug/L
|	Pb	206	1146.411	0.00	0.1324	0.010	7.930	ug/L
|	Pb	207	960.723	0.00	0.1258	0.008	6.351	ug/L
|	Pb	208	4599.803	0.01	0.1303	0.005	3.616	ug/L
|	U	238	923.053	0.00	0.0249	0.006	22.237	ug/L
⌊>	Bi	209	498116.296	498116.30				ug/L

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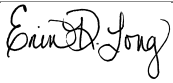

⌈	Na	23	4922854.433	15.89	0.8414	0.027	3.158	mg/L
|	Mg	24	595532.483	1.93	0.1583	0.006	4.083	mg/L
|	K	39	2671806.959	6.79	0.2389	0.010	4.349	mg/L
|	Ca	43	3204.167	0.01	0.1560	0.008	4.829	mg/L
|	Fe	54	154773.673	0.34	0.1702	0.015	8.712	mg/L
|	Fe	57	30034.837	0.07	0.0849	0.007	8.168	mg/L
⌊>	Sc-1	45	308419.066	308419.07				mg/L
	Cl	35	43942.341	24926.27				mg/L
	Kr	83	49.001	-11.67				mg/L
	Br	81	9986.325	1375.95				mg/L
	P	31	26364.299	12968.40				mg/L
	S	34	197238.675	9257.70				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.194			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.477			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.183			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.369			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102048602
Report Date/Time: Tuesday, February 22, 2011 11:07:52
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102048607 WG357046-01

Sample Date/Time: Tuesday, February 22, 2011 11:12:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24346.312	0.02				ug/L
|	Be	9	9.333	0.00	-0.0219	0.011	49.478	ug/L
|	Al	27	756507.679	2.31	115.3216	4.192	3.635	ug/L
⌊>	Sc	45	326774.851	326774.85				ug/L
⌈	Ti	49	643.419	0.00	0.9688	0.119	12.234	ug/L
|	V	51	3477.381	0.00	0.1070	0.013	11.826	ug/L
|	Cr	52	18905.044	0.02	1.2828	0.009	0.680	ug/L
|	Cr	53	1466.922	0.00	1.3266	0.145	10.933	ug/L
|	Mn	55	110079.721	0.23	8.5208	0.040	0.472	ug/L
|	Co	59	1319.100	0.00	0.1193	0.002	1.709	ug/L
|	Ni	60	2243.941	0.00	1.0378	0.015	1.420	ug/L
|	Cu	65	641.027	0.00	0.2200	0.007	3.066	ug/L
|	Zn	66	4385.339	0.01	2.7842	0.042	1.493	ug/L
|>	Ge	72	487774.672	487774.67				ug/L
|	As	75	-124.012	0.00	0.0374	0.049	131.074	ug/L
|	Se	77	56.000	-0.00	-0.2648	0.140	52.842	ug/L
|	Se	82	13.249	0.00	0.1513	0.104	69.038	ug/L
⌊	Rb	85	6812.722	0.01				mg/L
	Y	89	317366.061	-30416.12				ug/L
	Rh	103	10.333	-0.00				ug/L
⌈	Mo	98	261.207	0.00	0.1091	0.007	6.120	ug/L
|	Ag	107	33.667	-0.00	0.0040	0.002	41.762	ug/L
|	Cd	114	7.974	0.00	0.0001	0.005	3184.999	ug/L
|>	In	115	397194.074	397194.07				ug/L
|	Sn	118	188.002	0.00	0.0281	0.002	7.930	ug/L
⌊	Sb	123	98.659	0.00	0.0195	0.002	8.373	ug/L
⌈	Ba	135	12671.485	0.02	7.0490	0.148	2.095	ug/L
|	Ce	140	12175.294	0.02				ug/L
⌊>	Tb	159	533295.931	533295.93				ug/L
⌈	Ho	165	76.675	0.00				ug/L
|	Tl	203	62.667	0.00	0.0063	0.001	16.746	ug/L
|	Tl	205	126.680	0.00	0.0159	0.001	4.182	ug/L
|	Pb	206	1145.744	0.00	0.1205	0.007	5.945	ug/L
|	Pb	207	953.055	0.00	0.1139	0.004	3.571	ug/L
|	Pb	208	4569.129	0.01	0.1179	0.001	1.162	ug/L
|	U	238	704.365	0.00	0.0174	0.001	8.375	ug/L
⌊>	Bi	209	529331.746	529331.75				ug/L

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⌈	Na	23	4640248.254	14.14	0.7482	0.015	1.986	mg/L
|	Mg	24	1072602.559	3.28	0.2723	0.005	1.930	mg/L
|	K	39	2609470.481	6.11	0.2147	0.010	4.795	mg/L
|	Ca	43	6979.810	0.02	0.3321	0.035	10.597	mg/L
|	Fe	54	227857.347	0.54	0.2660	0.027	10.087	mg/L
|	Fe	57	60787.010	0.16	0.1904	0.012	6.379	mg/L
⌊>	Sc-1	45	326774.851	326774.85				mg/L
	Cl	35	145702.198	126686.13				mg/L
	Kr	83	48.001	-12.67				mg/L
	Br	81	11985.846	3375.47				mg/L
	P	31	25734.396	12338.49				mg/L
	S	34	188883.544	902.57				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.349			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.189			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.043			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		106.658			
⌈	Na	23					

Sample ID: L1102048607 WG357046-01
Report Date/Time: Tuesday, February 22, 2011 11:14:38
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102048607 WG357046-01
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Method 6020 - Summary Report

Sample ID: L1102048608S WG357046-04

Sample Date/Time: Tuesday, February 22, 2011 11:19:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23160.179	0.01				ug/L
|	Be	9	7634.258	0.02	27.1412	2.476	9.121	ug/L
|	Al	27	1896810.819	5.79	289.4766	17.515	6.050	ug/L
⌊>	Sc	45	327271.179	327271.18				ug/L
⌈	Ti	49	2033.753	0.00	3.1626	0.870	27.517	ug/L
|	V	51	274545.898	0.56	27.6295	1.310	4.742	ug/L
|	Cr	52	251043.338	0.50	29.0860	1.043	3.587	ug/L
|	Cr	53	28001.960	0.06	28.0121	0.877	3.130	ug/L
|	Mn	55	527950.391	1.08	41.1270	1.099	2.671	ug/L
|	Co	59	287955.997	0.59	28.0422	1.097	3.911	ug/L
|	Ni	60	63380.294	0.13	29.5552	1.118	3.783	ug/L
|	Cu	65	64654.059	0.13	29.1755	0.981	3.362	ug/L
|	Zn	66	39126.139	0.08	29.5544	0.883	2.988	ug/L
|>	Ge	72	486667.695	486667.69				ug/L
|	As	75	25718.360	0.05	24.0932	0.504	2.091	ug/L
|	Se	77	1835.502	0.00	22.9452	0.136	0.594	ug/L
|	Se	82	2177.519	0.00	22.1258	0.371	1.677	ug/L
⌊	Rb	85	10122.226	0.02				mg/L
	Y	89	315576.813	-32205.37				ug/L
	Rh	103	20.334	10.00				ug/L
⌈	Mo	98	414.218	0.00	0.1687	0.008	4.666	ug/L
|	Ag	107	118614.471	0.30	24.2339	1.220	5.036	ug/L
|	Cd	114	28814.011	0.07	24.8805	1.291	5.188	ug/L
|>	In	115	394992.567	394992.57				ug/L
|	Sn	118	333.072	0.00	0.0630	0.003	4.129	ug/L
⌊	Sb	123	92047.078	0.23	22.9180	0.351	1.531	ug/L
⌈	Ba	135	59613.958	0.11	33.4009	0.325	0.974	ug/L
|	Ce	140	23312.815	0.04				ug/L
⌊>	Tb	159	528531.160	528531.16				ug/L
⌈	Ho	165	146.682	0.00				ug/L
|	Tl	203	195841.321	0.37	26.4472	0.538	2.036	ug/L
|	Tl	205	479514.008	0.91	26.1854	0.306	1.170	ug/L
|	Pb	206	168275.368	0.32	27.8516	0.468	1.679	ug/L
|	Pb	207	145167.761	0.27	25.5383	0.691	2.704	ug/L
|	Pb	208	678188.917	1.28	26.8622	0.533	1.984	ug/L
|	U	238	999067.145	1.90	26.9145	1.211	4.500	ug/L
⌊>	Bi	209	527024.292	527024.29				ug/L

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⌈	Na	23	4798361.113	14.60	0.7728	0.035	4.505	mg/L
|	Mg	24	1349721.063	4.13	0.3433	0.018	5.216	mg/L
|	K	39	3485808.222	8.78	0.3104	0.015	4.714	mg/L
|	Ca	43	11230.762	0.03	0.5389	0.016	2.976	mg/L
|	Fe	54	386053.280	1.02	0.5004	0.037	7.423	mg/L
|	Fe	57	123116.470	0.35	0.4161	0.025	6.120	mg/L
⌊>	Sc-1	45	327271.179	327271.18				mg/L
	Cl	35	45072.013	26055.94				mg/L
	Kr	83	48.001	-12.67				mg/L
	Br	81	9886.219	1275.84				mg/L
	P	31	29700.181	16304.28				mg/L
	S	34	210469.404	22488.43				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.137			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.629			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.096			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		106.193			
⌈	Na	23					

Sample ID: L1102048608S WG357046-04
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102048608S WG357046-04
Report Date/Time: Tuesday, February 22, 2011 11:21:23
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102048609SD WG357046-05

Sample Date/Time: Tuesday, February 22, 2011 11:25:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23126.995	0.01				ug/L
|	Be	9	7748.339	0.02	28.0700	1.465	5.218	ug/L
|	Al	27	1195313.800	3.72	185.7253	23.866	12.850	ug/L
⌊>	Sc	45	320918.131	320918.13				ug/L
⌈	Ti	49	943.473	0.00	1.4729	0.200	13.578	ug/L
|	V	51	261950.842	0.54	26.9054	0.914	3.396	ug/L
|	Cr	52	239882.769	0.49	28.3499	0.857	3.024	ug/L
|	Cr	53	27724.488	0.06	28.3107	0.454	1.603	ug/L
|	Mn	55	490415.936	1.03	38.9965	0.599	1.536	ug/L
|	Co	59	273969.076	0.57	27.2316	0.222	0.817	ug/L
|	Ni	60	60084.258	0.13	28.6002	0.643	2.248	ug/L
|	Cu	65	60735.501	0.13	27.9718	0.313	1.119	ug/L
|	Zn	66	37175.348	0.08	28.6459	0.321	1.120	ug/L
| >	Ge	72	476720.661	476720.66				ug/L
|	As	75	25159.346	0.05	24.0610	0.464	1.927	ug/L
|	Se	77	1754.154	0.00	22.3547	1.063	4.756	ug/L
|	Se	82	2186.772	0.00	22.6856	0.193	0.849	ug/L
⌊	Rb	85	7592.958	0.02				mg/L
	Y	89	307631.440	-40150.74				ug/L
	Rh	103	16.667	6.33				ug/L
⌈	Mo	98	337.543	0.00	0.1427	0.005	3.320	ug/L
|	Ag	107	114419.495	0.30	24.0494	0.847	3.522	ug/L
|	Cd	114	28827.359	0.08	25.6314	1.205	4.699	ug/L
| >	In	115	384004.185	384004.19				ug/L
|	Sn	118	199.069	0.00	0.0323	0.001	3.887	ug/L
⌊	Sb	123	90586.946	0.24	23.2060	0.608	2.622	ug/L
⌈	Ba	135	56325.438	0.11	32.2533	1.344	4.166	ug/L
|	Ce	140	18712.703	0.04				ug/L
⌊>	Tb	159	517633.567	517633.57				ug/L
⌈	Ho	165	103.344	0.00				ug/L
|	Tl	203	188509.486	0.37	26.5854	1.077	4.053	ug/L
|	Tl	205	471088.378	0.93	26.8568	1.301	4.843	ug/L
|	Pb	206	159962.512	0.32	27.6459	1.096	3.965	ug/L
|	Pb	207	140663.323	0.28	25.8395	1.217	4.710	ug/L
|	Pb	208	651903.957	1.29	26.9604	0.867	3.217	ug/L
|	U	238	964439.362	1.91	27.1242	0.196	0.723	ug/L
⌊>	Bi	209	505012.332	505012.33				ug/L

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⌈	Na	23	4513076.649	14.00	0.7407	0.017	2.338	mg/L
|	Mg	24	1074821.481	3.35	0.2778	0.003	1.151	mg/L
|	K	39	2767219.936	6.74	0.2373	0.005	2.135	mg/L
|	Ca	43	7136.597	0.02	0.3456	0.020	5.658	mg/L
|	Fe	54	284190.938	0.72	0.3569	0.007	1.927	mg/L
|	Fe	57	82292.101	0.23	0.2737	0.003	0.938	mg/L
⌊>	Sc-1	45	320918.131	320918.13				mg/L
	Cl	35	37302.805	18286.74				mg/L
	Kr	83	57.667	-3.00				mg/L
	Br	81	11587.377	2977.00				mg/L
	P	31	23487.990	10092.09				mg/L
	S	34	191739.168	3758.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.234			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.829			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.929			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.758			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102048614

Sample Date/Time: Tuesday, February 22, 2011 11:32:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24329.663	0.02				ug/L
|	Be	9	23.333	0.00	0.0289	0.017	58.076	ug/L
|	Al	27	1935932.426	5.99	299.5099	17.768	5.932	ug/L
⌊>	Sc	45	323303.776	323303.78				ug/L
⌈	Ti	49	1480.258	0.00	2.3032	0.191	8.277	ug/L
|	V	51	8034.674	0.01	0.5756	0.018	3.175	ug/L
|	Cr	52	41182.706	0.07	3.9871	0.047	1.188	ug/L
|	Cr	53	3937.836	0.01	3.8404	0.092	2.405	ug/L
|	Mn	55	546774.420	1.13	42.8629	0.115	0.267	ug/L
|	Co	59	7309.744	0.01	0.7076	0.012	1.647	ug/L
|	Ni	60	6249.348	0.01	2.9270	0.059	2.023	ug/L
|	Cu	65	2310.290	0.00	0.9823	0.025	2.496	ug/L
|	Zn	66	28809.732	0.06	21.7467	0.224	1.030	ug/L
| >	Ge	72	483547.469	483547.47				ug/L
|	As	75	60.313	0.00	0.2088	0.036	17.118	ug/L
|	Se	77	88.667	0.00	0.1705	0.159	93.449	ug/L
|	Se	82	20.916	0.00	0.2303	0.160	69.516	ug/L
⌊	Rb	85	5188.398	0.01				mg/L
	Y	89	323911.187	-23871.00				ug/L
	Rh	103	9.000	-1.33				ug/L
⌈	Mo	98	867.215	0.00	0.3479	0.008	2.362	ug/L
|	Ag	107	66.001	0.00	0.0108	0.002	21.957	ug/L
|	Cd	114	8.046	0.00	0.0002	0.006	2690.094	ug/L
| >	In	115	389397.720	389397.72				ug/L
|	Sn	118	254.803	0.00	0.0451	0.002	5.215	ug/L
⌊	Sb	123	406.255	0.00	0.0976	0.009	8.889	ug/L
⌈	Ba	135	12083.086	0.02	6.8190	0.198	2.908	ug/L
|	Ce	140	109534.309	0.21				ug/L
⌊>	Tb	159	525851.420	525851.42				ug/L
⌈	Ho	165	716.764	0.00				ug/L
|	Tl	203	45.001	0.00	0.0040	0.001	24.769	ug/L
|	Tl	205	116.679	0.00	0.0155	0.001	4.982	ug/L
|	Pb	206	5397.177	0.01	0.8447	0.037	4.358	ug/L
|	Pb	207	4668.136	0.01	0.7857	0.007	0.863	ug/L
|	Pb	208	21819.335	0.04	0.8206	0.017	2.074	ug/L
|	U	238	912.718	0.00	0.0235	0.001	6.173	ug/L
⌊>	Bi	209	516918.328	516918.33				ug/L

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⌈	Na	23	3594964.849	11.09	0.5860	0.048	8.250	mg/L
|	Mg	24	1434624.522	4.45	0.3704	0.030	8.081	mg/L
|	K	39	2092237.410	4.60	0.1604	0.010	5.995	mg/L
|	Ca	43	6119.150	0.02	0.2931	0.015	4.984	mg/L
|	Fe	54	957852.376	2.81	1.3722	0.144	10.497	mg/L
|	Fe	57	357144.247	1.08	1.2836	0.078	6.078	mg/L
⌊>	Sc-1	45	323303.776	323303.78				mg/L
	Cl	35	39355.295	20339.23				mg/L
	Kr	83	48.001	-12.67				mg/L
	Br	81	10757.117	2146.74				mg/L
	P	31	30432.237	17036.33				mg/L
	S	34	190831.699	2850.72				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.540			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.203			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.563			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.157			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102048614
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Method 6020 - Summary Report

Sample ID: L1102048617

Sample Date/Time: Tuesday, February 22, 2011 11:39:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23009.822	0.02				ug/L
|	Be	9	12.000	0.00	-0.0096	0.029	306.070	ug/L
|	Al	27	274532.243	0.87	43.5233	8.460	19.438	ug/L
⌊>	Sc	45	313494.882	313494.88				ug/L
⌈	Ti	49	250.028	0.00	0.3598	0.038	10.559	ug/L
|	V	51	3051.763	0.00	0.0701	0.005	6.818	ug/L
|	Cr	52	19121.798	0.02	1.3546	0.077	5.655	ug/L
|	Cr	53	1496.930	0.00	1.3855	0.186	13.447	ug/L
|	Mn	55	36451.022	0.08	2.8499	0.028	0.988	ug/L
|	Co	59	1010.061	0.00	0.0913	0.008	8.323	ug/L
|	Ni	60	1843.522	0.00	0.8690	0.039	4.464	ug/L
|	Cu	65	439.347	0.00	0.1329	0.004	2.715	ug/L
|	Zn	66	4401.012	0.01	2.8638	0.033	1.138	ug/L
|>	Ge	72	478252.830	478252.83				ug/L
|	As	75	-149.980	0.00	0.0104	0.019	180.644	ug/L
|	Se	77	79.334	0.00	0.0584	0.065	111.473	ug/L
|	Se	82	3.255	0.00	0.0505	0.033	64.412	ug/L
⌊	Rb	85	1568.139	0.00				mg/L
	Y	89	302342.311	-45439.87				ug/L
	Rh	103	6.000	-4.33				ug/L
⌈	Mo	98	201.241	0.00	0.0889	0.003	3.860	ug/L
|	Ag	107	73.001	0.00	0.0125	0.004	34.623	ug/L
|	Cd	114	0.265	-0.00	-0.0065	0.007	109.651	ug/L
|>	In	115	382982.188	382982.19				ug/L
|	Sn	118	215.202	0.00	0.0364	0.003	8.931	ug/L
⌊	Sb	123	133.995	0.00	0.0295	0.001	3.756	ug/L
⌈	Ba	135	3933.146	0.01	2.2764	0.030	1.302	ug/L
|	Ce	140	5135.165	0.01				ug/L
⌊>	Tb	159	514512.768	514512.77				ug/L
⌈	Ho	165	316.703	0.00				ug/L
|	Tl	203	35.000	0.00	0.0028	0.000	16.340	ug/L
|	Tl	205	110.012	0.00	0.0152	0.002	12.975	ug/L
|	Pb	206	652.695	0.00	0.0441	0.002	4.739	ug/L
|	Pb	207	581.023	0.00	0.0534	0.005	9.302	ug/L
|	Pb	208	2674.169	0.00	0.0479	0.004	7.339	ug/L
|	U	238	547.354	0.00	0.0138	0.001	9.872	ug/L
⌊>	Bi	209	505813.578	505813.58				ug/L

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⌈	Na	23	4287348.811	13.63	0.7209	0.028	3.892	mg/L
|	Mg	24	1410704.958	4.50	0.3749	0.012	3.229	mg/L
|	K	39	1415907.420	2.64	0.0901	0.007	7.934	mg/L
|	Ca	43	7263.369	0.02	0.3613	0.033	9.011	mg/L
|	Fe	54	123423.352	0.23	0.1180	0.011	9.687	mg/L
|	Fe	57	17874.434	0.03	0.0371	0.005	12.797	mg/L
⌊>	Sc-1	45	313494.882	313494.88				mg/L
	Cl	35	200373.638	181357.57				mg/L
	Kr	83	47.334	-13.33				mg/L
	Br	81	10570.253	1959.88				mg/L
	P	31	26759.409	13363.51				mg/L
	S	34	186321.176	-1659.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.527			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.569			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.308			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.920			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102048617PS WG357188-01

Sample Date/Time: Tuesday, February 22, 2011 11:46:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26552.337	0.02				ug/L
|	Be	9	16292.616	0.05	57.3134	1.951	3.405	ug/L
|	Al	27	621690.420	1.87	93.5782	6.387	6.825	ug/L
|>	Sc	45	330785.820	330785.82				ug/L
⌈	Ti	49	296.701	0.00	0.4245	0.093	22.012	ug/L
|	V	51	537027.499	1.09	53.9705	0.733	1.357	ug/L
|	Cr	52	472774.660	0.95	55.3215	0.991	1.791	ug/L
|	Cr	53	54570.606	0.11	54.4181	0.265	0.486	ug/L
|	Mn	55	739855.161	1.51	57.3277	0.331	0.577	ug/L
|	Co	59	572268.856	1.17	55.4145	1.444	2.606	ug/L
|	Ni	60	120970.847	0.25	56.0908	1.113	1.985	ug/L
|	Cu	65	125177.283	0.26	56.2312	0.708	1.260	ug/L
|	Zn	66	67344.685	0.14	51.0043	0.787	1.544	ug/L
|>	Ge	72	489343.155	489343.16				ug/L
|	As	75	51812.649	0.11	48.1146	0.095	0.198	ug/L
|	Se	77	3588.644	0.01	45.5599	0.653	1.432	ug/L
|	Se	82	4386.613	0.01	44.3098	0.869	1.961	ug/L
⌊	Rb	85	1607.479	0.00				mg/L
	Y	89	311381.114	-36401.07				ug/L
	Rh	103	24.334	14.00				ug/L
⌈	Mo	98	208.840	0.00	0.0888	0.002	2.154	ug/L
|	Ag	107	245730.731	0.62	49.7856	0.744	1.494	ug/L
|	Cd	114	57110.587	0.14	48.9442	0.150	0.307	ug/L
|>	In	115	398209.489	398209.49				ug/L
|	Sn	118	387.741	0.00	0.0753	0.002	2.590	ug/L
⌊	Sb	123	203730.128	0.51	50.3266	1.147	2.279	ug/L
⌈	Ba	135	91507.353	0.17	51.3945	0.488	0.950	ug/L
|	Ce	140	5011.757	0.01				ug/L
|>	Tb	159	527329.460	527329.46				ug/L
⌈	Ho	165	200.022	0.00				ug/L
|	Tl	203	387973.186	0.75	53.4192	1.508	2.823	ug/L
|	Tl	205	925383.791	1.79	51.5154	0.452	0.877	ug/L
|	Pb	206	321386.491	0.62	54.3095	0.734	1.352	ug/L
|	Pb	207	290989.380	0.56	52.2525	0.738	1.412	ug/L
|	Pb	208	1329957.659	2.57	53.7806	0.764	1.421	ug/L
|	U	238	1967299.794	3.81	54.0807	1.968	3.639	ug/L
|>	Bi	209	516972.808	516972.81				ug/L

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⌈	Na	23	4319276.802	12.99	0.6873	0.010	1.403	mg/L
|	Mg	24	1436790.769	4.35	0.3617	0.015	4.020	mg/L
|	K	39	1481648.312	2.60	0.0886	0.004	4.709	mg/L
|	Ca	43	7400.150	0.02	0.3484	0.034	9.745	mg/L
|	Fe	54	124553.971	0.22	0.1096	0.011	10.311	mg/L
|	Fe	57	19146.904	0.03	0.0380	0.002	6.064	mg/L
⌊>	Sc-1	45	330785.820	330785.82				mg/L
	Cl	35	203940.748	184924.68				mg/L
	Kr	83	47.667	-13.00				mg/L
	Br	81	11016.734	2406.36				mg/L
	P	31	25899.559	12503.66				mg/L
	S	34	209923.545	21942.57				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.649			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.448			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.857			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.168			
⌈	Na	23					

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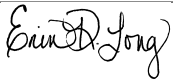

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102048617PS WG357188-01
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Method 6020 - Summary Report

Sample ID: L1102048617SDL WG357188-02

Sample Date/Time: Tuesday, February 22, 2011 11:53:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21489.953	0.01				ug/L
|	Be	9	11.333	0.00	-0.0117	0.020	169.008	ug/L
|	Al	27	50762.570	0.16	7.7987	1.034	13.257	ug/L
⌊>	Sc	45	305946.414	305946.41				ug/L
⌈	Ti	49	100.011	0.00	0.1183	0.043	36.488	ug/L
|	V	51	2469.254	0.00	0.0070	0.015	216.140	ug/L
|	Cr	52	10130.897	0.00	0.2444	0.025	10.419	ug/L
|	Cr	53	530.067	0.00	0.3916	0.016	4.116	ug/L
|	Mn	55	8291.853	0.02	0.6081	0.019	3.160	ug/L
|	Co	59	270.673	0.00	0.0177	0.003	17.417	ug/L
|	Ni	60	451.015	0.00	0.2055	0.010	4.652	ug/L
|	Cu	65	229.005	0.00	0.0348	0.009	26.136	ug/L
|	Zn	66	3386.941	0.01	2.0385	0.112	5.481	ug/L
|>	Ge	72	484053.840	484053.84				ug/L
|	As	75	-143.939	0.00	0.0177	0.016	88.588	ug/L
|	Se	77	73.334	0.00	-0.0303	0.138	455.889	ug/L
|	Se	82	-4.113	0.00	-0.0256	0.114	443.394	ug/L
⌊	Rb	85	354.343	0.00				mg/L
	Y	89	303858.026	-43924.16				ug/L
	Rh	103	10.333	-0.00				ug/L
⌈	Mo	98	63.649	0.00	0.0349	0.007	18.739	ug/L
|	Ag	107	32.667	-0.00	0.0041	0.001	34.162	ug/L
|	Cd	114	6.089	0.00	-0.0012	0.003	272.450	ug/L
|>	In	115	374334.528	374334.53				ug/L
|	Sn	118	189.335	0.00	0.0311	0.003	8.504	ug/L
⌊	Sb	123	69.406	0.00	0.0133	0.001	5.809	ug/L
⌈	Ba	135	826.042	0.00	0.4969	0.015	2.943	ug/L
|	Ce	140	996.816	0.00				ug/L
⌊>	Tb	159	505783.392	505783.39				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	43.667	0.00	0.0042	0.001	19.767	ug/L
|	Tl	205	120.013	0.00	0.0161	0.001	3.379	ug/L
|	Pb	206	449.348	0.00	0.0117	0.002	15.236	ug/L
|	Pb	207	396.012	0.00	0.0220	0.008	37.891	ug/L
|	Pb	208	1831.085	0.00	0.0157	0.005	29.036	ug/L
|	U	238	178.670	0.00	0.0036	0.000	1.973	ug/L
⌊>	Bi	209	488824.529	488824.53				ug/L

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⌈	Na	23	872975.054	2.79	0.1451	0.006	4.065	mg/L
|	Mg	24	279771.363	0.91	0.0730	0.004	5.368	mg/L
|	K	39	762558.083	0.61	0.0173	0.004	21.341	mg/L
|	Ca	43	1600.288	0.00	0.0734	0.005	7.117	mg/L
|	Fe	54	60293.068	0.04	0.0222	0.004	19.818	mg/L
|	Fe	57	9088.373	0.00	0.0046	0.002	50.783	mg/L
⌊>	Sc-1	45	305946.414	305946.41				mg/L
	Cl	35	56699.663	37683.59				mg/L
	Kr	83	51.334	-9.33				mg/L
	Br	81	8303.448	-306.93				mg/L
	P	31	15227.151	1831.25				mg/L
	S	34	206837.233	18856.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.637			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.366			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.572			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.496			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102048617SDL WG357188-02
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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 22, 2011 11:59:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20020.075	0.01				ug/L
|	Be	9	14000.464	0.05	53.0704	1.463	2.756	ug/L
|	Al	27	310073.945	1.00	49.9730	2.216	4.434	ug/L
⌊>	Sc	45	306991.076	306991.08				ug/L
⌈	Ti	49	63161.872	0.13	97.1516	1.623	1.670	ug/L
|	V	51	494418.790	0.99	48.8625	0.293	0.599	ug/L
|	Cr	52	424295.260	0.84	48.7385	0.524	1.075	ug/L
|	Cr	53	48944.376	0.10	48.0084	0.440	0.917	ug/L
|	Mn	55	647773.987	1.30	49.3818	0.472	0.956	ug/L
|	Co	59	516778.474	1.04	49.2445	0.778	1.579	ug/L
|	Ni	60	107626.822	0.22	49.1115	0.730	1.487	ug/L
|	Cu	65	113234.660	0.23	50.0507	1.074	2.146	ug/L
|	Zn	66	67442.684	0.13	50.2542	1.086	2.162	ug/L
| >	Ge	72	497319.957	497319.96				ug/L
|	As	75	52195.521	0.11	47.6974	0.621	1.302	ug/L
|	Se	77	3914.767	0.01	48.9680	1.638	3.346	ug/L
|	Se	82	4894.796	0.01	48.6493	0.821	1.688	ug/L
⌊	Rb	85	2048.231	0.00				mg/L
	Y	89	320713.349	-27068.83				ug/L
	Rh	103	19.334	9.00				ug/L
⌈	Mo	98	243995.485	0.64	97.3721	0.917	0.941	ug/L
|	Ag	107	233210.383	0.61	49.3173	0.385	0.780	ug/L
|	Cd	114	54962.452	0.14	49.1626	0.902	1.836	ug/L
| >	In	115	381530.596	381530.60				ug/L
|	Sn	118	194610.960	0.51	48.1305	0.365	0.757	ug/L
⌊	Sb	123	188415.202	0.49	48.5682	0.846	1.743	ug/L
⌈	Ba	135	80314.703	0.16	47.3149	0.961	2.032	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	502853.248	502853.25				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	334988.534	0.70	49.9895	0.848	1.696	ug/L
|	Tl	205	812970.521	1.70	49.0428	0.854	1.741	ug/L
|	Pb	206	268291.894	0.56	49.1185	1.005	2.047	ug/L
|	Pb	207	253023.076	0.53	49.2290	1.112	2.258	ug/L
|	Pb	208	1134432.394	2.38	49.7046	1.135	2.283	ug/L
|	U	238	1710245.363	3.59	50.9198	0.851	1.671	ug/L
⌊>	Bi	209	477078.965	477078.96				ug/L

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Na	23	28938271.206	94.19	5.0020	0.150	2.997	mg/L	
Mg	24	18157546.110	59.15	4.9737	0.081	1.619	mg/L	
K	39	42951159.792	138.02	4.9513	0.108	2.174	mg/L	
Ca	43	94605.024	0.31	4.9208	0.104	2.122	mg/L	
Fe	54	3136741.921	10.06	4.8942	0.098	1.997	mg/L	
Fe	57	1305320.086	4.23	5.0168	0.017	0.338	mg/L	
> Sc-1	45	306991.076	306991.08				mg/L	
Cl	35	17914.713	-1101.36				mg/L	
Kr	83	55.001	-5.67				mg/L	
Br	81	8184.684	-425.69				mg/L	
P	31	11004.101	-2391.80				mg/L	
S	34	188936.182	955.20				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	97.725				
Cr	52	97.477				
Cr	53					
Mn	55	98.764				
Co	59	98.489				
Ni	60	98.223				
Cu	65	100.101				
Zn	66	100.508				
> Ge	72		95.176			
As	75	95.395				
Se	77					
Se	82	97.299				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.635				
Cd	114	98.325				
> In	115		97.199			
Sn	118					
Sb	123	97.136				
Ba	135	94.630				
Ce	140					
> Tb	159		99.990			
Ho	165					
Tl	203	99.979				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.409				
U	238	101.840				
> Bi	209		96.130			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 12:02:04

Approved: February 23, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 22, 2011 12:07:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20704.809	0.01				ug/L
|	Be	9	4.000	0.00	-0.0398	0.008	19.496	ug/L
|	Al	27	3950.793	0.00	0.1249	0.092	73.457	ug/L
⌊>	Sc	45	306201.345	306201.35				ug/L
⌈	Ti	49	50.005	-0.00	0.0376	0.027	71.445	ug/L
|	V	51	2486.654	-0.00	0.0042	0.011	254.642	ug/L
|	Cr	52	8167.750	0.00	-0.0096	0.012	125.741	ug/L
|	Cr	53	233.359	0.00	0.0878	0.055	62.640	ug/L
|	Mn	55	345.009	0.00	-0.0156	0.001	7.935	ug/L
|	Co	59	68.668	0.00	-0.0023	0.001	36.713	ug/L
|	Ni	60	48.667	0.00	0.0163	0.002	11.432	ug/L
|	Cu	65	99.335	-0.00	-0.0249	0.003	12.960	ug/L
|	Zn	66	436.347	0.00	-0.2536	0.012	4.864	ug/L
| >	Ge	72	492742.342	492742.34				ug/L
|	As	75	-148.305	0.00	0.0160	0.051	317.613	ug/L
|	Se	77	64.667	0.00	-0.1609	0.193	119.954	ug/L
|	Se	82	-2.104	0.00	-0.0043	0.086	1995.684	ug/L
⌊	Rb	85	18.334	-0.00				mg/L
	Y	89	316185.595	-31596.59				ug/L
	Rh	103	9.667	-0.67				ug/L
⌈	Mo	98	96.019	0.00	0.0470	0.003	5.899	ug/L
|	Ag	107	33.000	-0.00	0.0040	0.001	25.149	ug/L
|	Cd	114	3.858	-0.00	-0.0033	0.001	44.019	ug/L
| >	In	115	384283.097	384283.10				ug/L
|	Sn	118	228.003	0.00	0.0394	0.003	6.998	ug/L
⌊	Sb	123	60.579	0.00	0.0106	0.002	20.527	ug/L
⌈	Ba	135	21.334	0.00	0.0260	0.003	11.649	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	498822.044	498822.04				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	30.334	0.00	0.0022	0.001	39.292	ug/L
|	Tl	205	56.673	0.00	0.0123	0.002	13.439	ug/L
|	Pb	206	405.679	0.00	0.0033	0.001	44.007	ug/L
|	Pb	207	345.676	0.00	0.0118	0.003	26.198	ug/L
|	Pb	208	1602.066	0.00	0.0053	0.001	10.039	ug/L
|	U	238	110.335	0.00	0.0016	0.000	26.730	ug/L
⌊>	Bi	209	492668.848	492668.85				ug/L

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⌈	Na	23	20406.179	0.00	-0.0031	0.000	3.349	mg/L
|	Mg	24	756.772	0.00	-0.0039	0.000	1.137	mg/L
|	K	39	546552.917	-0.09	-0.0082	0.002	20.154	mg/L
|	Ca	43	210.023	-0.00	0.0007	0.003	411.424	mg/L
|	Fe	54	47712.247	-0.01	0.0021	0.001	57.682	mg/L
|	Fe	57	7446.854	-0.00	-0.0018	0.001	79.048	mg/L
⌊>	Sc-1	45	306201.345	306201.35				mg/L
	Cl	35	17408.474	-1607.60				mg/L
	Kr	83	50.334	-10.33				mg/L
	Br	81	7806.381	-804.00				mg/L
	P	31	12735.522	-660.38				mg/L
	S	34	188088.560	107.58				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.300			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.900			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.188			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.271			
⌈	Na	23					

Sample ID: QC Std 7
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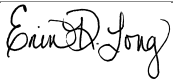

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 12:09:18

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102048620

Sample Date/Time: Tuesday, February 22, 2011 12:13:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23009.902	0.01				ug/L
|	Be	9	16.000	0.00	0.0019	0.008	401.602	ug/L
|	Al	27	2349763.755	7.17	358.3772	11.527	3.216	ug/L
⌊>	Sc	45	327566.062	327566.06				ug/L
⌈	Ti	49	790.110	0.00	1.1966	0.100	8.352	ug/L
|	V	51	5171.926	0.01	0.2777	0.032	11.608	ug/L
|	Cr	52	47766.301	0.08	4.7205	0.114	2.411	ug/L
|	Cr	53	5055.118	0.01	4.9158	0.197	4.015	ug/L
|	Mn	55	358911.852	0.73	27.8270	0.131	0.471	ug/L
|	Co	59	7242.361	0.01	0.6936	0.003	0.396	ug/L
|	Ni	60	8340.227	0.02	3.8674	0.050	1.290	ug/L
|	Cu	65	1946.209	0.00	0.8073	0.005	0.629	ug/L
|	Zn	66	22299.064	0.04	16.5178	0.159	0.960	ug/L
|>	Ge	72	488668.668	488668.67				ug/L
|	As	75	-125.980	0.00	0.0356	0.021	58.534	ug/L
|	Se	77	85.334	0.00	0.1152	0.132	114.694	ug/L
|	Se	82	13.603	0.00	0.1548	0.081	52.080	ug/L
⌊	Rb	85	3083.506	0.01				mg/L
	Y	89	335436.311	-12345.87				ug/L
	Rh	103	9.333	-1.00				ug/L
⌈	Mo	98	1158.759	0.00	0.4572	0.022	4.753	ug/L
|	Ag	107	48.334	0.00	0.0070	0.002	29.041	ug/L
|	Cd	114	4.029	-0.00	-0.0033	0.007	222.971	ug/L
|>	In	115	393642.156	393642.16				ug/L
|	Sn	118	502.013	0.00	0.1038	0.003	3.175	ug/L
⌊	Sb	123	106.535	0.00	0.0217	0.002	8.240	ug/L
⌈	Ba	135	12460.550	0.02	6.9430	0.100	1.434	ug/L
|	Ce	140	80978.279	0.15				ug/L
⌊>	Tb	159	532433.684	532433.68				ug/L
⌈	Ho	165	1063.497	0.00				ug/L
|	Tl	203	40.667	0.00	0.0033	0.002	49.093	ug/L
|	Tl	205	100.011	0.00	0.0144	0.003	18.967	ug/L
|	Pb	206	2604.699	0.00	0.3582	0.006	1.741	ug/L
|	Pb	207	2068.235	0.00	0.3069	0.008	2.544	ug/L
|	Pb	208	10140.816	0.02	0.3351	0.007	2.102	ug/L
|	U	238	2365.970	0.00	0.0615	0.002	3.867	ug/L
⌊>	Bi	209	533416.257	533416.26				ug/L

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Na	23	3631356.650	11.03	0.5827	0.015	2.631	mg/L	
Mg	24	1518196.553	4.64	0.3861	0.015	3.985	mg/L	
K	39	1550463.228	2.86	0.0978	0.006	5.938	mg/L	
Ca	43	5395.331	0.02	0.2535	0.018	7.190	mg/L	
Fe	54	582219.989	1.62	0.7912	0.031	3.876	mg/L	
Fe	57	205994.968	0.60	0.7169	0.048	6.688	mg/L	
> Sc-1	45	327566.062	327566.06				mg/L	
Cl	35	183604.371	164588.30				mg/L	
Kr	83	45.667	-15.00				mg/L	
Br	81	10215.217	1604.84				mg/L	
P	31	32614.467	19218.56				mg/L	
S	34	217165.572	29184.59				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		93.520			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		100.284			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.872			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		107.481			
Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102048623

Sample Date/Time: Tuesday, February 22, 2011 12:20:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23828.529	0.02				ug/L
|	Be	9	20.000	0.00	0.0192	0.034	178.965	ug/L
|	Al	27	2231071.075	7.06	353.0744	26.653	7.549	ug/L
⌊>	Sc	45	315829.021	315829.02				ug/L
⌈	Ti	49	996.816	0.00	1.5599	0.156	10.021	ug/L
|	V	51	4495.234	0.00	0.2203	0.036	16.330	ug/L
|	Cr	52	34480.357	0.06	3.2368	0.042	1.293	ug/L
|	Cr	53	3220.843	0.01	3.1596	0.293	9.272	ug/L
|	Mn	55	290308.371	0.61	23.0530	0.120	0.518	ug/L
|	Co	59	4954.610	0.01	0.4835	0.007	1.529	ug/L
|	Ni	60	5562.269	0.01	2.6405	0.051	1.929	ug/L
|	Cu	65	1547.802	0.00	0.6449	0.004	0.610	ug/L
|	Zn	66	7244.362	0.01	5.1078	0.078	1.525	ug/L
|>	Ge	72	476956.675	476956.68				ug/L
|	As	75	-180.006	-0.00	-0.0187	0.052	276.556	ug/L
|	Se	77	68.000	0.00	-0.0903	0.415	459.061	ug/L
|	Se	82	0.539	0.00	0.0222	0.041	185.608	ug/L
⌊	Rb	85	2769.078	0.01				mg/L
	Y	89	314489.840	-33292.34				ug/L
	Rh	103	8.333	-2.00				ug/L
⌈	Mo	98	773.019	0.00	0.3195	0.010	3.263	ug/L
|	Ag	107	31.667	-0.00	0.0039	0.002	43.010	ug/L
|	Cd	114	3.411	-0.00	-0.0036	0.005	128.297	ug/L
|>	In	115	379077.898	379077.90				ug/L
|	Sn	118	378.674	0.00	0.0777	0.012	15.968	ug/L
⌊	Sb	123	64.283	0.00	0.0118	0.001	9.056	ug/L
⌈	Ba	135	8720.890	0.02	5.0405	0.150	2.981	ug/L
|	Ce	140	65641.336	0.13				ug/L
⌊>	Tb	159	513703.519	513703.52				ug/L
⌈	Ho	165	723.432	0.00				ug/L
|	Tl	203	32.000	0.00	0.0023	0.001	30.218	ug/L
|	Tl	205	66.674	0.00	0.0128	0.000	2.649	ug/L
|	Pb	206	2059.233	0.00	0.2856	0.011	3.688	ug/L
|	Pb	207	1958.221	0.00	0.3045	0.096	31.611	ug/L
|	Pb	208	8323.757	0.01	0.2798	0.024	8.564	ug/L
|	U	238	2083.238	0.00	0.0567	0.001	2.572	ug/L
⌊>	Bi	209	508403.669	508403.67				ug/L

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Erin D. Long

Na	23	3580234.275	11.28	0.5961	0.024	3.992	mg/L	
Mg	24	1379546.876	4.37	0.3638	0.016	4.417	mg/L	
K	39	1487794.565	2.83	0.0968	0.003	3.239	mg/L	
Ca	43	4985.074	0.01	0.2424	0.006	2.610	mg/L	
Fe	54	476094.003	1.35	0.6597	0.028	4.184	mg/L	
Fe	57	167216.424	0.50	0.5981	0.018	3.042	mg/L	
> Sc-1	45	315829.021	315829.02				mg/L	
Cl	35	35552.422	16536.35				mg/L	
Kr	83	53.001	-7.67				mg/L	
Br	81	11858.361	3247.99				mg/L	
P	31	25717.994	12322.09				mg/L	
S	34	194859.860	6878.88				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		91.279			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		96.574			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		102.147			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		102.441			
Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102048626

Sample Date/Time: Tuesday, February 22, 2011 12:27:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25565.995	0.03				ug/L
|	Be	9	4.000	0.00	-0.0395	0.021	52.891	ug/L
|	Al	27	9888.271	0.02	1.1038	0.232	21.030	ug/L
⌊>	Sc	45	305120.260	305120.26				ug/L
⌈	Ti	49	63.340	0.00	0.0619	0.025	39.639	ug/L
|	V	51	2498.652	0.00	0.0145	0.015	103.219	ug/L
|	Cr	52	10814.288	0.01	0.3499	0.031	8.819	ug/L
|	Cr	53	616.747	0.00	0.4908	0.063	12.888	ug/L
|	Mn	55	1385.777	0.00	0.0684	0.004	6.297	ug/L
|	Co	59	81.001	0.00	-0.0008	0.001	102.214	ug/L
|	Ni	60	317.342	0.00	0.1454	0.015	10.267	ug/L
|	Cu	65	301.008	0.00	0.0701	0.001	1.658	ug/L
|	Zn	66	2408.314	0.00	1.3132	0.048	3.690	ug/L
|>	Ge	72	475422.921	475422.92				ug/L
|	As	75	-182.871	-0.00	-0.0219	0.059	267.441	ug/L
|	Se	77	75.334	0.00	0.0119	0.112	936.381	ug/L
|	Se	82	-3.136	0.00	-0.0159	0.053	332.152	ug/L
⌊	Rb	85	35.667	0.00				mg/L
	Y	89	301044.850	-46737.33				ug/L
	Rh	103	9.333	-1.00				ug/L
⌈	Mo	98	31.315	0.00	0.0216	0.001	6.454	ug/L
|	Ag	107	24.667	-0.00	0.0024	0.001	37.090	ug/L
|	Cd	114	3.382	-0.00	-0.0037	0.002	53.057	ug/L
|>	In	115	376097.948	376097.95				ug/L
|	Sn	118	156.135	0.00	0.0225	0.005	20.813	ug/L
⌊	Sb	123	45.243	-0.00	0.0069	0.003	39.368	ug/L
⌈	Ba	135	87.335	0.00	0.0636	0.005	7.113	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	513815.513	513815.51				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	17.000	0.00	0.0003	0.000	111.472	ug/L
|	Tl	205	50.005	0.00	0.0119	0.001	4.652	ug/L
|	Pb	206	445.348	0.00	0.0103	0.003	29.314	ug/L
|	Pb	207	372.344	0.00	0.0168	0.003	20.496	ug/L
|	Pb	208	1715.074	0.00	0.0100	0.001	11.851	ug/L
|	U	238	19.667	0.00	-0.0010	0.000	11.133	ug/L
⌊>	Bi	209	493144.317	493144.32				ug/L

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⌈	Na	23	46284.921	0.09	0.0014	0.000	30.910	mg/L
|	Mg	24	11871.572	0.04	-0.0008	0.000	27.794	mg/L
|	K	39	547161.097	-0.09	-0.0079	0.001	17.127	mg/L
|	Ca	43	416.717	0.00	0.0116	0.002	15.437	mg/L
|	Fe	54	97073.117	0.16	0.0811	0.007	8.790	mg/L
|	Fe	57	7857.205	-0.00	-0.0001	0.001	503.923	mg/L
⌊>	Sc-1	45	305120.260	305120.26				mg/L
	Cl	35	93922.375	74906.31				mg/L
	Kr	83	54.001	-6.67				mg/L
	Br	81	8751.830	141.45				mg/L
	P	31	23742.987	10347.08				mg/L
	S	34	194278.478	6297.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.985			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.815			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.169			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.367			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102048629

Sample Date/Time: Tuesday, February 22, 2011 12:34:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23461.274	0.02				ug/L
|	Be	9	5.333	0.00	-0.0351	0.009	25.904	ug/L
|	Al	27	20020.081	0.06	2.6915	0.280	10.400	ug/L
⌊>	Sc	45	312114.861	312114.86				ug/L
⌈	Ti	49	86.676	0.00	0.1000	0.057	56.994	ug/L
|	V	51	2449.409	0.00	0.0102	0.017	164.047	ug/L
|	Cr	52	11800.076	0.01	0.4753	0.010	2.023	ug/L
|	Cr	53	683.425	0.00	0.5616	0.036	6.486	ug/L
|	Mn	55	2163.923	0.00	0.1311	0.008	5.972	ug/L
|	Co	59	102.335	0.00	0.0014	0.001	87.463	ug/L
|	Ni	60	257.673	0.00	0.1173	0.003	2.174	ug/L
|	Cu	65	306.008	0.00	0.0728	0.015	20.080	ug/L
|	Zn	66	2176.926	0.00	1.1361	0.054	4.725	ug/L
|>	Ge	72	473928.090	473928.09				ug/L
|	As	75	-134.149	0.00	0.0240	0.042	174.454	ug/L
|	Se	77	74.000	0.00	-0.0029	0.116	4054.399	ug/L
|	Se	82	11.284	0.00	0.1343	0.072	53.889	ug/L
⌊	Rb	85	54.334	0.00				mg/L
	Y	89	304820.962	-42961.22				ug/L
	Rh	103	7.333	-3.00				ug/L
⌈	Mo	98	30.790	0.00	0.0212	0.001	4.669	ug/L
|	Ag	107	27.000	-0.00	0.0028	0.000	5.787	ug/L
|	Cd	114	9.108	0.00	0.0015	0.010	683.959	ug/L
|>	In	115	380976.190	380976.19				ug/L
|	Sn	118	164.535	0.00	0.0242	0.002	10.192	ug/L
⌊	Sb	123	41.907	-0.00	0.0059	0.001	20.060	ug/L
⌈	Ba	135	97.668	0.00	0.0700	0.002	3.076	ug/L
|	Ce	140	120.013	0.00				ug/L
⌊>	Tb	159	509668.401	509668.40				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	13.333	-0.00	-0.0003	0.001	190.585	ug/L
|	Tl	205	30.003	0.00	0.0107	0.001	5.112	ug/L
|	Pb	206	444.348	0.00	0.0089	0.002	19.298	ug/L
|	Pb	207	358.343	0.00	0.0131	0.002	11.654	ug/L
|	Pb	208	1721.076	0.00	0.0092	0.002	22.491	ug/L
|	U	238	23.000	0.00	-0.0009	0.000	12.183	ug/L
⌊>	Bi	209	500523.746	500523.75				ug/L

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⌈	Na	23	78599.542	0.19	0.0067	0.001	14.981	mg/L
|	Mg	24	29155.403	0.09	0.0038	0.001	14.219	mg/L
|	K	39	588986.563	0.01	-0.0045	0.002	53.301	mg/L
|	Ca	43	513.398	0.00	0.0160	0.002	14.554	mg/L
|	Fe	54	101964.862	0.17	0.0853	0.010	11.939	mg/L
|	Fe	57	8958.248	0.00	0.0034	0.003	80.663	mg/L
⌊>	Sc-1	45	312114.861	312114.86				mg/L
	Cl	35	34778.380	15762.31				mg/L
	Kr	83	44.001	-16.67				mg/L
	Br	81	8441.568	-168.81				mg/L
	P	31	23480.287	10084.38				mg/L
	S	34	184962.199	-3018.78				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.699			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.058			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.345			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.854			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102049202

Sample Date/Time: Tuesday, February 22, 2011 12:40:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23962.124	0.02				ug/L
|	Be	9	6.667	0.00	-0.0303	0.004	12.253	ug/L
|	Al	27	324175.037	1.03	51.3781	4.815	9.371	ug/L
⌊>	Sc	45	312683.798	312683.80				ug/L
⌈	Ti	49	1203.526	0.00	1.8592	0.133	7.161	ug/L
|	V	51	25110.541	0.05	2.3116	0.045	1.929	ug/L
|	Cr	52	35769.887	0.06	3.3206	0.084	2.544	ug/L
|	Cr	53	3217.508	0.01	3.1025	0.289	9.322	ug/L
|	Mn	55	1209903.782	2.49	94.5860	1.689	1.785	ug/L
|	Co	59	3278.237	0.01	0.3114	0.006	1.878	ug/L
|	Ni	60	1856.191	0.00	0.8624	0.055	6.355	ug/L
|	Cu	65	49224.027	0.10	22.2610	0.465	2.090	ug/L
|	Zn	66	228607.070	0.47	176.0479	4.204	2.388	ug/L
| >	Ge	72	485206.422	485206.42				ug/L
|	As	75	2882.680	0.01	2.8436	0.044	1.555	ug/L
|	Se	77	76.667	0.00	0.0082	0.136	1648.595	ug/L
|	Se	82	11.939	0.00	0.1387	0.136	98.098	ug/L
⌊	Rb	85	9845.945	0.02				mg/L
	Y	89	311206.511	-36575.67				ug/L
	Rh	103	21.334	11.00				ug/L
⌈	Mo	98	40032.513	0.11	16.0138	0.205	1.279	ug/L
|	Ag	107	99.001	0.00	0.0181	0.000	2.420	ug/L
|	Cd	114	1173.649	0.00	1.0452	0.025	2.397	ug/L
| >	In	115	380807.082	380807.08				ug/L
|	Sn	118	685.490	0.00	0.1533	0.004	2.471	ug/L
⌊	Sb	123	40872.614	0.11	10.5523	0.218	2.063	ug/L
⌈	Ba	135	6133.608	0.01	3.4813	0.070	2.014	ug/L
|	Ce	140	2540.577	0.00				ug/L
⌊>	Tb	159	523783.079	523783.08				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	74.668	0.00	0.0083	0.001	15.744	ug/L
|	Tl	205	176.686	0.00	0.0189	0.006	30.023	ug/L
|	Pb	206	15224.067	0.03	2.5460	0.099	3.882	ug/L
|	Pb	207	13377.411	0.03	2.3879	0.113	4.734	ug/L
|	Pb	208	61714.226	0.12	2.4738	0.111	4.467	ug/L
|	U	238	356.343	0.00	0.0084	0.000	5.689	ug/L
⌊>	Bi	209	509503.278	509503.28				ug/L

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⌈	Na	23	11535331.537	36.88	1.9563	0.113	5.761	mg/L
|	Mg	24	7697848.060	24.63	2.0691	0.063	3.058	mg/L
|	K	39	15805450.590	48.70	1.7439	0.059	3.360	mg/L
|	Ca	43	83438.369	0.27	4.2616	0.074	1.740	mg/L
|	Fe	54	335290.171	0.91	0.4482	0.027	5.920	mg/L
|	Fe	57	111570.062	0.33	0.3932	0.017	4.250	mg/L
⌊>	Sc-1	45	312683.798	312683.80				mg/L
	Cl	35	54516.875	35500.81				mg/L
	Kr	83	45.334	-15.33				mg/L
	Br	81	9625.966	1015.59				mg/L
	P	31	93550.267	80154.36				mg/L
	S	34	289451.244	101470.27				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.858			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.015			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.151			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.663			
⌈	Na	23					

Sample ID: L1102049202
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 22, 2011 12:47:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18400.281	0.00				ug/L
|	Be	9	14224.110	0.05	56.0420	2.700	4.818	ug/L
|	Al	27	306910.777	1.03	51.5129	4.774	9.267	ug/L
⌊>	Sc	45	295872.066	295872.07				ug/L
⌈	Ti	49	65315.872	0.14	103.6309	3.322	3.205	ug/L
|	V	51	492214.207	1.02	50.1756	0.498	0.993	ug/L
|	Cr	52	419686.224	0.85	49.7373	0.906	1.821	ug/L
|	Cr	53	49517.283	0.10	50.1031	1.637	3.268	ug/L
|	Mn	55	631644.060	1.31	49.6598	0.710	1.429	ug/L
|	Co	59	509973.049	1.06	50.1127	0.427	0.853	ug/L
|	Ni	60	107524.106	0.22	50.5961	0.737	1.456	ug/L
|	Cu	65	111851.229	0.23	50.9801	0.689	1.352	ug/L
|	Zn	66	66863.169	0.14	51.3861	0.850	1.654	ug/L
⌊>	Ge	72	482234.644	482234.64				ug/L
|	As	75	52891.467	0.11	49.8368	0.417	0.837	ug/L
|	Se	77	3904.097	0.01	50.3846	2.384	4.732	ug/L
|	Se	82	4861.134	0.01	49.8359	1.603	3.217	ug/L
⌊	Rb	85	1977.882	0.00				mg/L
	Y	89	302658.656	-45123.53				ug/L
	Rh	103	31.334	21.00				ug/L
⌈	Mo	98	242536.395	0.66	99.9737	1.895	1.895	ug/L
|	Ag	107	233090.214	0.63	50.9037	0.140	0.274	ug/L
|	Cd	114	56126.616	0.15	51.8444	0.255	0.491	ug/L
⌊>	In	115	369448.702	369448.70				ug/L
|	Sn	118	197363.671	0.53	50.4142	0.673	1.336	ug/L
⌊	Sb	123	189549.066	0.51	50.4644	0.690	1.367	ug/L
⌈	Ba	135	81977.166	0.17	49.8606	0.588	1.178	ug/L
|	Ce	140	80.008	0.00				ug/L
⌊>	Tb	159	486903.636	486903.64				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	339105.535	0.74	52.3657	1.491	2.847	ug/L
|	Tl	205	809241.063	1.76	50.5166	0.883	1.748	ug/L
|	Pb	206	272321.761	0.59	51.5887	0.488	0.946	ug/L
|	Pb	207	253382.816	0.55	51.0145	0.894	1.752	ug/L
|	Pb	208	1127930.140	2.44	51.1373	0.288	0.563	ug/L
|	U	238	1726901.671	3.75	53.1975	1.285	2.415	ug/L
⌊>	Bi	209	460994.945	460994.95				ug/L

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Na	23	29282595.435	99.29	5.2731	0.576	10.925	mg/L
Mg	24	17997581.026	61.00	5.1291	0.377	7.353	mg/L
K	39	43456997.441	145.30	5.2129	0.289	5.540	mg/L
Ca	43	95378.919	0.32	5.1575	0.252	4.887	mg/L
Fe	54	3112798.566	10.39	5.0558	0.385	7.610	mg/L
Fe	57	1274508.508	4.29	5.0948	0.320	6.281	mg/L
> Sc-1	45	295872.066	295872.07				mg/L
Cl	35	19273.898	257.83				mg/L
Kr	83	52.334	-8.33				mg/L
Br	81	7581.542	-1028.83				mg/L
P	31	12233.519	-1162.38				mg/L
S	34	213115.679	25134.70				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	100.351				
Cr	52	99.475				
Cr	53					
Mn	55	99.320				
Co	59	100.225				
Ni	60	101.192				
Cu	65	101.960				
Zn	66	102.772				
> Ge	72		92.289			
As	75	99.674				
Se	77					
Se	82	99.672				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.807				
Cd	114	103.689				
> In	115		94.121			
Sn	118					
Sb	123	100.929				
Ba	135	99.721				
Ce	140					
> Tb	159		96.818			
Ho	165					
Tl	203	104.731				
Tl	205					
Pb	206					
Pb	207					
Pb	208	102.275				
U	238	106.395				
> Bi	209		92.889			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 12:49:54

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
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Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 22, 2011 12:54:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20020.117	0.01				ug/L
|	Be	9	5.333	0.00	-0.0353	0.021	58.702	ug/L
|	Al	27	3250.544	0.00	0.0121	0.120	990.900	ug/L
⌊>	Sc	45	306342.512	306342.51				ug/L
⌈	Ti	49	53.339	0.00	0.0438	0.026	59.373	ug/L
|	V	51	2485.508	0.00	0.0058	0.017	286.816	ug/L
|	Cr	52	8232.806	0.00	0.0050	0.033	654.952	ug/L
|	Cr	53	176.686	-0.00	0.0326	0.019	59.183	ug/L
|	Mn	55	345.009	0.00	-0.0154	0.002	16.198	ug/L
|	Co	59	56.667	-0.00	-0.0034	0.001	29.085	ug/L
|	Ni	60	48.334	0.00	0.0163	0.001	7.503	ug/L
|	Cu	65	110.668	0.00	-0.0195	0.009	44.391	ug/L
|	Zn	66	461.015	0.00	-0.2322	0.029	12.654	ug/L
|>	Ge	72	489325.972	489325.97				ug/L
|	As	75	-157.543	0.00	0.0063	0.035	553.147	ug/L
|	Se	77	68.000	0.00	-0.1126	0.092	81.635	ug/L
|	Se	82	5.583	0.00	0.0721	0.115	159.023	ug/L
⌊	Rb	85	18.334	-0.00				mg/L
	Y	89	317411.870	-30370.31				ug/L
	Rh	103	8.667	-1.67				ug/L
⌈	Mo	98	107.211	0.00	0.0526	0.007	12.866	ug/L
|	Ag	107	24.334	-0.00	0.0023	0.001	22.663	ug/L
|	Cd	114	-2.225	-0.00	-0.0088	0.002	23.480	ug/L
|>	In	115	375432.206	375432.21				ug/L
|	Sn	118	234.669	0.00	0.0425	0.007	15.933	ug/L
⌊	Sb	123	49.285	0.00	0.0080	0.001	8.800	ug/L
⌈	Ba	135	14.000	-0.00	0.0215	0.002	9.742	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	507357.519	507357.52				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	24.334	0.00	0.0015	0.001	62.822	ug/L
|	Tl	205	43.338	0.00	0.0116	0.002	19.249	ug/L
|	Pb	206	389.678	0.00	0.0021	0.007	317.784	ug/L
|	Pb	207	329.342	0.00	0.0101	0.004	40.524	ug/L
|	Pb	208	1545.396	0.00	0.0044	0.003	76.881	ug/L
|	U	238	85.001	0.00	0.0010	0.000	31.550	ug/L
⌊>	Bi	209	482349.886	482349.89				ug/L

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⌈	Na	23	19918.479	-0.00	-0.0032	0.000	2.806	mg/L
|	Mg	24	616.747	0.00	-0.0039	0.000	0.322	mg/L
|	K	39	566479.142	-0.03	-0.0058	0.003	53.921	mg/L
|	Ca	43	193.355	-0.00	-0.0002	0.002	701.401	mg/L
|	Fe	54	47352.006	-0.01	0.0016	0.004	257.165	mg/L
|	Fe	57	7266.701	-0.00	-0.0025	0.002	79.308	mg/L
⌊>	Sc-1	45	306342.512	306342.51				mg/L
	Cl	35	18612.640	-403.43				mg/L
	Kr	83	48.001	-12.67				mg/L
	Br	81	7885.110	-725.27				mg/L
	P	31	10895.967	-2499.94				mg/L
	S	34	193023.235	5042.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.646			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.645			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.885			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.192			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
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Method 6020 - Summary Report

Sample ID: ~~L1102057501~~ L1102027501

Sample Date/Time: Tuesday, February 22, 2011 13:01:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23176.906	0.01				ug/L
|	Be	9	6.000	0.00	-0.0334	0.022	64.880	ug/L
|	Al	27	177006.596	0.54	26.9721	5.215	19.335	ug/L
⌊>	Sc	45	321864.576	321864.58				ug/L
⌈	Ti	49	830.118	0.00	1.4018	0.065	4.654	ug/L
|	V	51	15206.893	0.03	1.4598	0.029	1.982	ug/L
|	Cr	52	16852.695	0.02	1.2533	0.063	5.003	ug/L
|	Cr	53	1556.944	0.00	1.5841	0.136	8.596	ug/L
|	Mn	55	32545.873	0.07	2.7607	0.057	2.057	ug/L
|	Co	59	1111.073	0.00	0.1106	0.002	1.920	ug/L
|	Ni	60	3362.599	0.01	1.7257	0.049	2.867	ug/L
|	Cu	65	724.033	0.00	0.2923	0.016	5.394	ug/L
|	Zn	66	13105.046	0.03	10.5624	0.033	0.311	ug/L
|>	Ge	72	440636.008	440636.01				ug/L
|	As	75	3586.809	0.01	3.8395	0.069	1.791	ug/L
|	Se	77	140.001	0.00	1.0213	0.390	38.143	ug/L
|	Se	82	1364.670	0.00	15.3226	0.545	3.556	ug/L
⌊	Rb	85	9111.909	0.02				mg/L
	Y	89	279614.098	-68168.08				ug/L
	Rh	103	106.335	96.00				ug/L
⌈	Mo	98	1062.638	0.00	0.4613	0.022	4.810	ug/L
|	Ag	107	79.001	0.00	0.0149	0.001	7.744	ug/L
|	Cd	114	1.883	-0.00	-0.0049	0.005	100.340	ug/L
|>	In	115	357690.996	357691.00				ug/L
|	Sn	118	1019.252	0.00	0.2524	0.005	1.934	ug/L
⌊	Sb	123	105.661	0.00	0.0241	0.005	19.804	ug/L
⌈	Ba	135	31074.862	0.06	18.4768	0.114	0.618	ug/L
|	Ce	140	1940.382	0.00				ug/L
⌊>	Tb	159	498277.055	498277.06				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	133.002	0.00	0.0179	0.001	3.029	ug/L
|	Tl	205	360.043	0.00	0.0310	0.003	10.507	ug/L
|	Pb	206	1033.064	0.00	0.1228	0.007	5.920	ug/L
|	Pb	207	928.719	0.00	0.1295	0.003	1.982	ug/L
|	Pb	208	4161.714	0.01	0.1218	0.002	1.601	ug/L
|	U	238	17673.117	0.04	0.5306	0.007	1.406	ug/L
⌊>	Bi	209	471718.833	471718.83				ug/L

Sample ID: ~~L1102057501~~ L1102027501
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Erin D. Long

Na	23	81827374.899	254.16	13.5028	0.205	1.520	mg/L	
Mg	24	21534922.123	66.91	5.6267	0.126	2.244	mg/L	
K	39	10627002.625	31.14	1.1134	0.019	1.715	mg/L	
Ca	43	613494.904	1.91	30.4905	0.653	2.141	mg/L	
Fe	54	153543.308	0.32	0.1583	0.002	1.444	mg/L	
Fe	57	62357.771	0.17	0.1992	0.020	10.103	mg/L	
Sc-1	45	321864.576	321864.58				mg/L	
Cl	35	474574.371	455558.30				mg/L	
Kr	83	51.001	-9.67				mg/L	
Br	81	821015.325	812404.95				mg/L	
P	31	40629.339	27233.44				mg/L	
S	34	750560.864	562579.89				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		84.328			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		91.126			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		99.080			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		95.050			
Na	23					

Sample ID: ~~L1102057501~~ L1102027501
Report Date/Time: Tuesday, February 22, 2011 13:03:54

Approved: February 23, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ~~L1102057501~~ L1102027501
Report Date/Time: Tuesday, February 22, 2011 13:03:54
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102027502

Sample Date/Time: Tuesday, February 22, 2011 13:08:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24697.144	0.02				ug/L
|	Be	9	8.000	0.00	-0.0261	0.015	56.891	ug/L
|	Al	27	293649.063	0.91	45.2245	4.569	10.103	ug/L
⌊>	Sc	45	321436.853	321436.85				ug/L
⌈	Ti	49	1463.589	0.00	2.5496	0.419	16.417	ug/L
|	V	51	14956.847	0.03	1.4642	0.064	4.373	ug/L
|	Cr	52	16472.060	0.02	1.2451	0.095	7.634	ug/L
|	Cr	53	1783.671	0.00	1.8741	0.106	5.681	ug/L
|	Mn	55	42196.595	0.10	3.6611	0.048	1.298	ug/L
|	Co	59	1256.758	0.00	0.1289	0.005	4.030	ug/L
|	Ni	60	4107.552	0.01	2.1493	0.061	2.823	ug/L
|	Cu	65	876.047	0.00	0.3766	0.004	1.106	ug/L
|	Zn	66	14331.072	0.03	11.8383	0.153	1.292	ug/L
|>	Ge	72	432413.678	432413.68				ug/L
|	As	75	5655.444	0.01	6.0775	0.083	1.363	ug/L
|	Se	77	112.001	0.00	0.6508	0.101	15.461	ug/L
|	Se	82	2104.542	0.00	24.0709	0.389	1.616	ug/L
⌊	Rb	85	9249.368	0.02				mg/L
	Y	89	276802.238	-70979.94				ug/L
	Rh	103	104.002	93.67				ug/L
⌈	Mo	98	1037.041	0.00	0.4389	0.016	3.729	ug/L
|	Ag	107	86.335	0.00	0.0161	0.001	3.969	ug/L
|	Cd	114	3.068	-0.00	-0.0039	0.005	128.124	ug/L
|>	In	115	367316.228	367316.23				ug/L
|	Sn	118	1269.414	0.00	0.3096	0.002	0.596	ug/L
⌊	Sb	123	119.242	0.00	0.0270	0.002	8.707	ug/L
⌈	Ba	135	31862.677	0.06	18.4149	0.561	3.049	ug/L
|	Ce	140	2707.306	0.01				ug/L
⌊>	Tb	159	512772.941	512772.94				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	128.335	0.00	0.0164	0.000	2.221	ug/L
|	Tl	205	273.364	0.00	0.0250	0.002	7.651	ug/L
|	Pb	206	1641.151	0.00	0.2235	0.013	5.966	ug/L
|	Pb	207	1401.112	0.00	0.2119	0.020	9.493	ug/L
|	Pb	208	6600.266	0.01	0.2184	0.005	2.405	ug/L
|	U	238	17966.308	0.04	0.5179	0.010	1.931	ug/L
⌊>	Bi	209	491456.506	491456.51				ug/L

Sample ID: L1102027502
Report Date/Time: Tuesday, February 22, 2011 13:10:40
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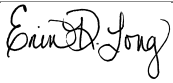

⌈	Na	23	79935847.040	248.75	13.2152	0.386	2.922	mg/L
|	Mg	24	21335720.321	66.41	5.5846	0.163	2.915	mg/L
|	K	39	10632605.600	31.21	1.1160	0.032	2.883	mg/L
|	Ca	43	589514.771	1.83	29.3511	0.811	2.764	mg/L
|	Fe	54	160750.398	0.34	0.1696	0.007	4.326	mg/L
|	Fe	57	59898.471	0.16	0.1907	0.015	8.101	mg/L
⌊>	Sc-1	45	321436.853	321436.85				mg/L
	Cl	35	467724.520	448708.45				mg/L
	Kr	83	43.334	-17.33				mg/L
	Br	81	1197746.382	1189136.01				mg/L
	P	31	39346.070	25950.17				mg/L
	S	34	764868.023	576887.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.754			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.578			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.962			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.027			
⌈	Na	23					

Sample ID: L1102027502
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102027502
Report Date/Time: Tuesday, February 22, 2011 13:10:40
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102027503

Sample Date/Time: Tuesday, February 22, 2011 13:15:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20437.591	0.01				ug/L
|	Be	9	8.667	0.00	-0.0205	0.011	54.842	ug/L
|	Al	27	155262.880	0.53	26.2361	0.961	3.664	ug/L
⌊>	Sc	45	290288.303	290288.30				ug/L
⌈	Ti	49	580.075	0.00	1.0103	0.061	6.075	ug/L
|	V	51	30299.129	0.07	3.2975	0.059	1.777	ug/L
|	Cr	52	24790.949	0.04	2.4436	0.048	1.970	ug/L
|	Cr	53	2413.866	0.01	2.6514	0.079	2.995	ug/L
|	Mn	55	9708.474	0.02	0.8299	0.008	0.952	ug/L
|	Co	59	337.676	0.00	0.0290	0.003	11.737	ug/L
|	Ni	60	1313.433	0.00	0.6994	0.003	0.448	ug/L
|	Cu	65	704.032	0.00	0.2976	0.021	7.211	ug/L
|	Zn	66	5816.083	0.01	4.5757	0.123	2.683	ug/L
| >	Ge	72	422461.885	422461.88				ug/L
|	As	75	641.589	0.00	0.8404	0.058	6.872	ug/L
|	Se	77	82.000	0.00	0.2379	0.166	69.575	ug/L
|	Se	82	95.045	0.00	1.1285	0.147	13.055	ug/L
⌊	Rb	85	3682.715	0.01				mg/L
	Y	89	265241.327	-82540.86				ug/L
	Rh	103	41.000	30.67				ug/L
⌈	Mo	98	4703.135	0.01	2.0809	0.069	3.324	ug/L
|	Ag	107	150.669	0.00	0.0323	0.002	5.317	ug/L
|	Cd	114	6.751	0.00	-0.0000	0.005	14110.605	ug/L
| >	In	115	345706.280	345706.28				ug/L
|	Sn	118	349.206	0.00	0.0787	0.003	3.228	ug/L
⌊	Sb	123	135.077	0.00	0.0335	0.004	11.566	ug/L
⌈	Ba	135	13336.361	0.03	8.1530	0.313	3.838	ug/L
|	Ce	140	1153.515	0.00				ug/L
⌊>	Tb	159	485147.573	485147.57				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	30.334	0.00	0.0025	0.000	12.098	ug/L
|	Tl	205	60.006	0.00	0.0127	0.001	8.075	ug/L
|	Pb	206	1391.777	0.00	0.1940	0.010	5.104	ug/L
|	Pb	207	1216.086	0.00	0.1904	0.002	1.159	ug/L
|	Pb	208	5648.023	0.01	0.1923	0.001	0.776	ug/L
|	U	238	11793.739	0.03	0.3599	0.010	2.667	ug/L
⌊>	Bi	209	463403.366	463403.37				ug/L

Sample ID: L1102027503
Report Date/Time: Tuesday, February 22, 2011 13:17:27
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Erin D. Long

⌈	Na	23	58238909.832	200.61	10.6568	0.274	2.568	mg/L
|	Mg	24	5284011.731	18.21	1.5281	0.028	1.838	mg/L
|	K	39	7286276.262	23.22	0.8292	0.010	1.149	mg/L
|	Ca	43	229311.020	0.79	12.6287	0.173	1.371	mg/L
|	Fe	54	103433.483	0.20	0.0997	0.008	7.675	mg/L
|	Fe	57	23092.272	0.05	0.0638	0.003	4.765	mg/L
⌊>	Sc-1	45	290288.303	290288.30				mg/L
	Cl	35	121459.389	102443.32				mg/L
	Kr	83	33.334	-27.33				mg/L
	Br	81	41929.143	33318.77				mg/L
	P	31	20729.633	7333.73				mg/L
	S	34	431805.720	243824.74				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.850			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.072			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.469			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.374			
⌈	Na	23					

Sample ID: L1102027503
Report Date/Time: Tuesday, February 22, 2011 13:17:27
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Approved: February 23, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102027503
Report Date/Time: Tuesday, February 22, 2011 13:17:27
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102027504

Sample Date/Time: Tuesday, February 22, 2011 13:22:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23644.665	0.02				ug/L
|	Be	9	12.000	0.00	-0.0071	0.022	308.443	ug/L
|	Al	27	138301.728	0.46	23.1021	1.732	7.495	ug/L
⌊>	Sc	45	292998.673	292998.67				ug/L
⌈	Ti	49	653.427	0.00	1.1260	0.845	75.082	ug/L
|	V	51	30701.637	0.07	3.2896	0.070	2.141	ug/L
|	Cr	52	24462.467	0.04	2.3462	0.053	2.256	ug/L
|	Cr	53	2230.472	0.00	2.4019	0.192	7.986	ug/L
|	Mn	55	11088.258	0.03	0.9382	0.023	2.478	ug/L
|	Co	59	330.342	0.00	0.0276	0.001	2.547	ug/L
|	Ni	60	1453.787	0.00	0.7630	0.035	4.623	ug/L
|	Cu	65	1310.099	0.00	0.6026	0.015	2.551	ug/L
|	Zn	66	7702.052	0.02	6.1522	0.663	10.771	ug/L
|>	Ge	72	429190.690	429190.69				ug/L
|	As	75	584.812	0.00	0.7700	0.051	6.632	ug/L
|	Se	77	93.334	0.00	0.3886	0.149	38.323	ug/L
|	Se	82	77.967	0.00	0.9154	0.062	6.786	ug/L
⌊	Rb	85	3677.046	0.01				mg/L
	Y	89	269811.631	-77970.55				ug/L
	Rh	103	45.334	35.00				ug/L
⌈	Mo	98	4544.951	0.01	1.9497	0.021	1.073	ug/L
|	Ag	107	160.670	0.00	0.0335	0.002	7.424	ug/L
|	Cd	114	3.744	-0.00	-0.0032	0.003	98.184	ug/L
|>	In	115	356576.339	356576.34				ug/L
|	Sn	118	363.473	0.00	0.0796	0.002	2.836	ug/L
⌊	Sb	123	144.079	0.00	0.0348	0.001	2.474	ug/L
⌈	Ba	135	13729.222	0.03	8.2485	0.230	2.791	ug/L
|	Ce	140	1223.531	0.00				ug/L
⌊>	Tb	159	493876.648	493876.65				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	30.000	0.00	0.0024	0.001	21.719	ug/L
|	Tl	205	70.007	0.00	0.0133	0.000	0.470	ug/L
|	Pb	206	1409.780	0.00	0.1944	0.002	0.908	ug/L
|	Pb	207	1234.755	0.00	0.1916	0.015	7.857	ug/L
|	Pb	208	5699.366	0.01	0.1918	0.003	1.398	ug/L
|	U	238	12050.711	0.03	0.3638	0.004	1.140	ug/L
⌊>	Bi	209	468536.779	468536.78				ug/L

Sample ID: L1102027504
Report Date/Time: Tuesday, February 22, 2011 13:24:14
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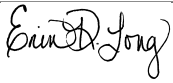
Approved: February 23, 2011



⌈	Na	23	61034100.842	208.37	11.0696	0.518	4.681	mg/L
|	Mg	24	5589015.911	19.08	1.6016	0.025	1.550	mg/L
|	K	39	7351914.977	23.21	0.8286	0.040	4.803	mg/L
|	Ca	43	232485.990	0.79	12.6861	0.577	4.550	mg/L
|	Fe	54	102856.549	0.19	0.0970	0.003	3.359	mg/L
|	Fe	57	21244.834	0.05	0.0554	0.010	17.611	mg/L
⌊>	Sc-1	45	292998.673	292998.67				mg/L
	Cl	35	119995.683	100979.61				mg/L
	Kr	83	42.334	-18.33				mg/L
	Br	81	29856.505	21246.13				mg/L
	P	31	21996.846	8600.94				mg/L
	S	34	421959.973	233979.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.138			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.842			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.205			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.408			
⌈	Na	23					

Sample ID: L1102027504
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102027504
Report Date/Time: Tuesday, February 22, 2011 13:24:14
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102027505

Sample Date/Time: Tuesday, February 22, 2011 13:28:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24145.791	0.02				ug/L
|	Be	9	6.000	0.00	-0.0311	0.021	67.998	ug/L
|	Al	27	67645.484	0.22	10.7292	0.875	8.159	ug/L
⌊>	Sc	45	301076.152	301076.15				ug/L
⌈	Ti	49	340.040	0.00	0.5788	0.186	32.171	ug/L
|	V	51	19178.096	0.04	2.0134	0.048	2.398	ug/L
|	Cr	52	12017.671	0.01	0.6940	0.038	5.466	ug/L
|	Cr	53	1423.577	0.00	1.5164	0.058	3.828	ug/L
|	Mn	55	8416.626	0.02	0.7191	0.011	1.466	ug/L
|	Co	59	387.011	0.00	0.0349	0.002	5.781	ug/L
|	Ni	60	1729.834	0.00	0.9291	0.025	2.686	ug/L
|	Cu	65	808.708	0.00	0.3548	0.012	3.454	ug/L
|	Zn	66	9551.989	0.02	7.9501	0.180	2.259	ug/L
|>	Ge	72	419616.860	419616.86				ug/L
|	As	75	273.077	0.00	0.4471	0.007	1.617	ug/L
|	Se	77	130.001	0.00	0.9771	0.278	28.486	ug/L
|	Se	82	113.591	0.00	1.3562	0.160	11.796	ug/L
⌊	Rb	85	6486.836	0.02				mg/L
	Y	89	258438.227	-89343.96				ug/L
	Rh	103	55.334	45.00				ug/L
⌈	Mo	98	3083.082	0.01	1.3263	0.031	2.334	ug/L
|	Ag	107	34.000	-0.00	0.0048	0.001	20.908	ug/L
|	Cd	114	15.176	0.00	0.0080	0.012	145.533	ug/L
|>	In	115	356239.485	356239.48				ug/L
|	Sn	118	174.402	0.00	0.0296	0.003	11.112	ug/L
⌊	Sb	123	91.868	0.00	0.0204	0.003	14.153	ug/L
⌈	Ba	135	42872.490	0.09	26.5340	0.842	3.173	ug/L
|	Ce	140	506.730	0.00				ug/L
⌊>	Tb	159	479087.640	479087.64				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	72.001	0.00	0.0092	0.001	7.915	ug/L
|	Tl	205	193.355	0.00	0.0213	0.002	9.678	ug/L
|	Pb	206	614.358	0.00	0.0505	0.002	4.483	ug/L
|	Pb	207	493.017	0.00	0.0482	0.002	3.544	ug/L
|	Pb	208	2346.131	0.00	0.0462	0.002	4.763	ug/L
|	U	238	9664.434	0.02	0.3032	0.012	4.070	ug/L
⌊>	Bi	209	450851.075	450851.07				ug/L

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⌈	Na	23	62760232.783	208.55	11.0791	0.240	2.165	mg/L
|	Mg	24	14587216.930	48.49	4.0767	0.131	3.202	mg/L
|	K	39	8230688.794	25.48	0.9103	0.024	2.677	mg/L
|	Ca	43	360741.780	1.20	19.1958	0.971	5.059	mg/L
|	Fe	54	93044.165	0.15	0.0769	0.009	12.317	mg/L
|	Fe	57	22985.479	0.05	0.0602	0.011	17.667	mg/L
⌊>	Sc-1	45	301076.152	301076.15				mg/L
	Cl	35	376036.666	357020.60				mg/L
	Kr	83	47.334	-13.33				mg/L
	Br	81	52476.770	43866.39				mg/L
	P	31	22995.202	9599.30				mg/L
	S	34	419242.306	231261.33				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.305			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.756			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.264			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.845			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102029801

Sample Date/Time: Tuesday, February 22, 2011 13:35:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26568.819	0.03				ug/L
|	Be	9	12.000	0.00	-0.0102	0.015	145.764	ug/L
|	Al	27	115585.520	0.36	17.9866	1.645	9.148	ug/L
⌊>	Sc	45	311993.171	311993.17				ug/L
⌈	Ti	49	723.432	0.00	1.2354	0.110	8.893	ug/L
|	V	51	13807.954	0.03	1.3249	0.022	1.654	ug/L
|	Cr	52	15234.419	0.02	1.0674	0.020	1.876	ug/L
|	Cr	53	1726.989	0.00	1.8008	0.099	5.493	ug/L
|	Mn	55	16294.765	0.04	1.3808	0.003	0.212	ug/L
|	Co	59	1004.061	0.00	0.1006	0.003	3.039	ug/L
|	Ni	60	3563.005	0.01	1.8542	0.077	4.173	ug/L
|	Cu	65	689.697	0.00	0.2800	0.005	1.789	ug/L
|	Zn	66	9370.817	0.02	7.4982	0.101	1.351	ug/L
| >	Ge	72	434493.228	434493.23				ug/L
|	As	75	4475.135	0.01	4.8203	0.228	4.729	ug/L
|	Se	77	130.668	0.00	0.9165	0.237	25.905	ug/L
|	Se	82	1679.105	0.00	19.1194	0.677	3.541	ug/L
⌊	Rb	85	8445.983	0.02				mg/L
	Y	89	267210.798	-80571.38				ug/L
	Rh	103	94.335	84.00				ug/L
⌈	Mo	98	982.113	0.00	0.4144	0.002	0.481	ug/L
|	Ag	107	57.334	0.00	0.0097	0.002	21.291	ug/L
|	Cd	114	2.542	-0.00	-0.0044	0.011	242.081	ug/L
| >	In	115	368745.494	368745.49				ug/L
|	Sn	118	526.014	0.00	0.1180	0.002	1.532	ug/L
⌊	Sb	123	93.244	0.00	0.0200	0.003	13.846	ug/L
⌈	Ba	135	31774.059	0.06	17.9788	0.424	2.358	ug/L
|	Ce	140	1887.033	0.00				ug/L
⌊>	Tb	159	523776.647	523776.65				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	110.668	0.00	0.0141	0.002	11.471	ug/L
|	Tl	205	266.697	0.00	0.0249	0.003	10.331	ug/L
|	Pb	206	729.701	0.00	0.0634	0.011	17.071	ug/L
|	Pb	207	642.360	0.00	0.0702	0.006	8.084	ug/L
|	Pb	208	2914.196	0.00	0.0634	0.002	3.932	ug/L
|	U	238	17730.565	0.04	0.5196	0.010	2.021	ug/L
⌊>	Bi	209	483125.302	483125.30				ug/L

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⌈	Na	23	79260730.976	254.00	13.4939	0.073	0.540	mg/L
|	Mg	24	21305538.229	68.28	5.7418	0.175	3.051	mg/L
|	K	39	10101486.896	30.49	1.0901	0.024	2.188	mg/L
|	Ca	43	569279.386	1.82	29.1835	0.568	1.945	mg/L
|	Fe	54	148208.382	0.31	0.1573	0.002	1.368	mg/L
|	Fe	57	58441.654	0.16	0.1914	0.028	14.774	mg/L
⌊>	Sc-1	45	311993.171	311993.17				mg/L
	Cl	35	447612.642	428596.57				mg/L
	Kr	83	45.334	-15.33				mg/L
	Br	81	969572.679	960962.30				mg/L
	P	31	39317.062	25921.16				mg/L
	S	34	742378.540	554397.56				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.152			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.942			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.150			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.348			
⌈	Na	23					

Sample ID: L1102029801
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102029801
Report Date/Time: Tuesday, February 22, 2011 13:37:49
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Method 6020 - Summary Report

Sample ID: F BLANK

Sample Date/Time: Tuesday, February 22, 2011 13:42:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22542.215	0.02				ug/L
|	Be	9	8.000	0.00	-0.0214	0.029	137.517	ug/L
|	Al	27	3450.600	0.00	0.1082	0.046	42.220	ug/L
⌊>	Sc	45	274471.920	274471.92				ug/L
⌈	Ti	49	60.006	0.00	0.0668	0.031	45.902	ug/L
|	V	51	2252.460	0.00	0.0139	0.003	22.819	ug/L
|	Cr	52	7047.220	-0.00	-0.0198	0.012	60.545	ug/L
|	Cr	53	173.352	-0.00	0.0538	0.071	131.358	ug/L
|	Mn	55	628.359	0.00	0.0133	0.001	5.494	ug/L
|	Co	59	45.334	-0.00	-0.0039	0.001	25.694	ug/L
|	Ni	60	71.334	0.00	0.0315	0.006	17.657	ug/L
|	Cu	65	847.711	0.00	0.3648	0.023	6.284	ug/L
|	Zn	66	2258.278	0.00	1.3846	0.023	1.682	ug/L
| >	Ge	72	429691.486	429691.49				ug/L
|	As	75	-31.786	0.00	0.1184	0.061	51.918	ug/L
|	Se	77	56.667	0.00	-0.1566	0.038	24.222	ug/L
|	Se	82	29.647	0.00	0.3569	0.161	45.104	ug/L
⌊	Rb	85	32.000	0.00				mg/L
	Y	89	263710.713	-84071.47				ug/L
	Rh	103	11.667	1.33				ug/L
⌈	Mo	98	22.347	0.00	0.0187	0.002	8.852	ug/L
|	Ag	107	84.335	0.00	0.0166	0.002	13.810	ug/L
|	Cd	114	1.948	-0.00	-0.0048	0.000	4.660	ug/L
| >	In	115	349238.706	349238.71				ug/L
|	Sn	118	103.867	0.00	0.0114	0.002	14.031	ug/L
⌊	Sb	123	29.574	-0.00	0.0034	0.002	47.845	ug/L
⌈	Ba	135	31.667	0.00	0.0333	0.002	6.891	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	469931.334	469931.33				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	24.667	0.00	0.0016	0.000	30.174	ug/L
|	Tl	205	50.005	0.00	0.0121	0.000	0.398	ug/L
|	Pb	206	376.011	0.00	0.0027	0.002	83.669	ug/L
|	Pb	207	320.675	0.00	0.0112	0.007	62.131	ug/L
|	Pb	208	1502.393	0.00	0.0055	0.002	29.663	ug/L
|	U	238	15.333	-0.00	-0.0011	0.000	15.372	ug/L
⌊>	Bi	209	460646.666	460646.67				ug/L

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⌈	Na	23	55458.895	0.14	0.0041	0.001	14.495	mg/L
|	Mg	24	5575.453	0.02	-0.0024	0.000	3.117	mg/L
|	K	39	561840.430	0.17	0.0013	0.003	244.904	mg/L
|	Ca	43	366.710	0.00	0.0110	0.002	21.501	mg/L
|	Fe	54	28642.191	-0.06	-0.0229	0.001	5.714	mg/L
|	Fe	57	6305.955	-0.00	-0.0034	0.002	69.982	mg/L
⌊>	Sc-1	45	274471.920	274471.92				mg/L
	Cl	35	18776.958	-239.11				mg/L
	Kr	83	40.667	-20.00				mg/L
	Br	81	19251.897	10641.52				mg/L
	P	31	8760.517	-4635.39				mg/L
	S	34	208686.281	20705.30				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.233			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.972			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.443			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.819			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: F BLANK
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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 22, 2011 13:49:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21573.333	0.02				ug/L
|	Be	9	14220.128	0.05	59.1001	3.149	5.329	ug/L
|	Al	27	294373.028	1.04	52.0619	2.062	3.961	ug/L
⌊>	Sc	45	279930.751	279930.75				ug/L
⌈	Ti	49	60307.602	0.14	105.2385	4.330	4.115	ug/L
|	V	51	464441.183	1.05	52.1026	1.316	2.526	ug/L
|	Cr	52	398428.011	0.89	51.9946	0.894	1.720	ug/L
|	Cr	53	45675.389	0.10	50.8364	1.540	3.029	ug/L
|	Mn	55	607379.668	1.39	52.5509	1.620	3.083	ug/L
|	Co	59	479400.399	1.09	51.8416	1.412	2.724	ug/L
|	Ni	60	100948.989	0.23	52.2672	0.815	1.560	ug/L
|	Cu	65	103895.324	0.24	52.1042	0.753	1.445	ug/L
|	Zn	66	61734.948	0.14	52.2169	1.192	2.283	ug/L
| >	Ge	72	438302.500	438302.50				ug/L
|	As	75	47017.750	0.11	48.7456	0.339	0.695	ug/L
|	Se	77	3618.655	0.01	51.4146	0.575	1.117	ug/L
|	Se	82	4371.320	0.01	49.2925	1.224	2.484	ug/L
⌊	Rb	85	1819.850	0.00				mg/L
	Y	89	275233.526	-72548.66				ug/L
	Rh	103	22.667	12.33				ug/L
⌈	Mo	98	218434.513	0.62	94.8708	2.547	2.684	ug/L
|	Ag	107	216314.248	0.62	49.7813	1.308	2.628	ug/L
|	Cd	114	50482.515	0.14	49.1335	1.551	3.156	ug/L
| >	In	115	350634.658	350634.66				ug/L
|	Sn	118	186833.288	0.53	50.2840	0.869	1.727	ug/L
⌊	Sb	123	180243.953	0.51	50.5609	0.843	1.668	ug/L
⌈	Ba	135	75914.271	0.16	47.2255	1.311	2.777	ug/L
|	Ce	140	60.006	0.00				ug/L
⌊>	Tb	159	476101.108	476101.11				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	331086.136	0.70	50.1175	0.384	0.767	ug/L
|	Tl	205	807938.680	1.72	49.4430	0.470	0.950	ug/L
|	Pb	206	265945.283	0.56	49.3920	1.172	2.373	ug/L
|	Pb	207	253911.489	0.54	50.1147	0.331	0.660	ug/L
|	Pb	208	1127446.882	2.39	50.1147	0.943	1.882	ug/L
|	U	238	1726740.513	3.67	52.1633	1.141	2.188	ug/L
⌊>	Bi	209	470228.416	470228.42				ug/L

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Na	23	27977471.284	99.88	5.3043	0.016	0.310	mg/L
Mg	24	17929694.900	64.06	5.3867	0.150	2.780	mg/L
K	39	42017438.927	148.21	5.3176	0.036	0.682	mg/L
Ca	43	92458.230	0.33	5.2746	0.120	2.275	mg/L
Fe	54	2986121.379	10.51	5.1133	0.161	3.157	mg/L
Fe	57	1237937.301	4.40	5.2189	0.018	0.349	mg/L
> Sc-1	45	279930.751	279930.75				mg/L
Cl	35	19560.445	544.38				mg/L
Kr	83	42.001	-18.67				mg/L
Br	81	11559.345	2948.97				mg/L
P	31	10925.999	-2469.90				mg/L
S	34	213727.393	25746.42				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	104.205				
Cr	52	103.989				
Cr	53					
Mn	55	105.102				
Co	59	103.683				
Ni	60	104.534				
Cu	65	104.208				
Zn	66	104.434				
> Ge	72		83.881			
As	75	97.491				
Se	77					
Se	82	98.585				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.563				
Cd	114	98.267				
> In	115		89.328			
Sn	118					
Sb	123	101.122				
Ba	135	94.451				
Ce	140					
> Tb	159		94.670			
Ho	165					
Tl	203	100.235				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.229				
U	238	104.327				
> Bi	209		94.749			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 13:51:24

Approved: February 23, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 13:51:24

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 22, 2011 13:56:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19268.726	0.01				ug/L
|	Be	9	2.667	-0.00	-0.0443	0.005	10.314	ug/L
|	Al	27	3467.279	0.00	0.0872	0.134	153.666	ug/L
⌊>	Sc	45	287685.682	287685.68				ug/L
⌈	Ti	49	56.673	0.00	0.0567	0.064	112.139	ug/L
|	V	51	2204.363	-0.00	-0.0011	0.001	59.501	ug/L
|	Cr	52	7274.051	-0.00	-0.0258	0.007	28.963	ug/L
|	Cr	53	220.024	0.00	0.0974	0.049	50.133	ug/L
|	Mn	55	285.007	0.00	-0.0179	0.002	12.666	ug/L
|	Co	59	53.334	0.00	-0.0032	0.000	6.279	ug/L
|	Ni	60	39.667	-0.00	0.0140	0.002	16.718	ug/L
|	Cu	65	92.668	-0.00	-0.0236	0.001	5.631	ug/L
|	Zn	66	360.010	-0.00	-0.2832	0.005	1.638	ug/L
|>	Ge	72	446292.511	446292.51				ug/L
|	As	75	-125.974	0.00	0.0241	0.049	203.840	ug/L
|	Se	77	52.667	-0.00	-0.2452	0.104	42.372	ug/L
|	Se	82	3.878	0.00	0.0589	0.111	189.224	ug/L
⌊	Rb	85	18.334	-0.00				mg/L
	Y	89	279815.719	-67966.46				ug/L
	Rh	103	11.667	1.33				ug/L
⌈	Mo	98	111.202	0.00	0.0570	0.006	10.253	ug/L
|	Ag	107	28.334	-0.00	0.0036	0.002	43.450	ug/L
|	Cd	114	0.498	-0.00	-0.0063	0.003	47.565	ug/L
|>	In	115	352071.629	352071.63				ug/L
|	Sn	118	236.669	0.00	0.0469	0.007	15.739	ug/L
⌊	Sb	123	30.156	-0.00	0.0035	0.001	29.546	ug/L
⌈	Ba	135	15.334	-0.00	0.0227	0.005	21.780	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	482685.045	482685.04				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	23.000	0.00	0.0013	0.000	16.469	ug/L
|	Tl	205	50.005	0.00	0.0120	0.002	14.573	ug/L
|	Pb	206	400.679	0.00	0.0048	0.001	19.768	ug/L
|	Pb	207	328.342	0.00	0.0106	0.002	21.144	ug/L
|	Pb	208	1556.063	0.00	0.0055	0.001	19.747	ug/L
|	U	238	80.334	0.00	0.0008	0.000	21.639	ug/L
⌊>	Bi	209	476698.041	476698.04				ug/L

Sample ID: QC Std 7
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⌈	Na	23	19714.733	0.00	-0.0030	0.000	9.651	mg/L
|	Mg	24	496.729	0.00	-0.0039	0.000	0.278	mg/L
|	K	39	545472.138	0.02	-0.0041	0.003	70.789	mg/L
|	Ca	43	156.684	-0.00	-0.0015	0.003	193.092	mg/L
|	Fe	54	41532.459	-0.02	-0.0034	0.003	80.599	mg/L
|	Fe	57	5935.694	-0.01	-0.0061	0.003	42.452	mg/L
⌊>	Sc-1	45	287685.682	287685.68				mg/L
	Cl	35	17734.387	-1281.68				mg/L
	Kr	83	52.334	-8.33				mg/L
	Br	81	9132.171	521.80				mg/L
	P	31	10799.165	-2596.74				mg/L
	S	34	199279.803	11298.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.410			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.694			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.979			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.053			
⌈	Na	23					

Sample ID: QC Std 7
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Approved: February 23, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 13:58:38

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: PBW 23 WG356896-04

Sample Date/Time: Tuesday, February 22, 2011 14:29:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24413.294	0.02				ug/L
|	Be	9	5.333	0.00	-0.0348	0.004	12.194	ug/L
|	Al	27	26435.063	0.08	3.7919	0.307	8.101	ug/L
⌊>	Sc	45	306356.290	306356.29				ug/L
⌈	Ti	49	330.044	0.00	0.5180	0.668	128.920	ug/L
|	V	51	2426.399	0.00	0.0237	0.002	8.094	ug/L
|	Cr	52	9083.548	0.00	0.2117	0.032	15.198	ug/L
|	Cr	53	350.041	0.00	0.2398	0.046	19.037	ug/L
|	Mn	55	2679.386	0.01	0.1858	0.001	0.656	ug/L
|	Co	59	75.668	0.00	-0.0008	0.001	126.642	ug/L
|	Ni	60	143.002	0.00	0.0668	0.010	14.405	ug/L
|	Cu	65	251.672	0.00	0.0549	0.001	2.638	ug/L
|	Zn	66	2032.894	0.00	1.1227	0.029	2.595	ug/L
|>	Ge	72	445989.067	445989.07				ug/L
|	As	75	-142.193	0.00	0.0073	0.038	519.566	ug/L
|	Se	77	59.334	0.00	-0.1502	0.206	137.180	ug/L
|	Se	82	5.281	0.00	0.0746	0.045	60.437	ug/L
⌊	Rb	85	58.667	0.00				mg/L
	Y	89	290907.378	-56874.80				ug/L
	Rh	103	5.333	-5.00				ug/L
⌈	Mo	98	32.311	0.00	0.0223	0.001	3.368	ug/L
|	Ag	107	18.334	-0.00	0.0011	0.001	78.608	ug/L
|	Cd	114	-1.870	-0.00	-0.0084	0.003	37.214	ug/L
|>	In	115	367892.619	367892.62				ug/L
|	Sn	118	149.601	0.00	0.0217	0.001	6.679	ug/L
⌊	Sb	123	32.240	-0.00	0.0037	0.001	37.412	ug/L
⌈	Ba	135	90.335	0.00	0.0671	0.007	10.626	ug/L
|	Ce	140	316.703	0.00				ug/L
⌊>	Tb	159	497939.083	497939.08				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	19.000	0.00	0.0006	0.001	181.820	ug/L
|	Tl	205	13.335	-0.00	0.0098	0.000	3.869	ug/L
|	Pb	206	662.362	0.00	0.0478	0.008	17.763	ug/L
|	Pb	207	586.023	0.00	0.0561	0.007	11.907	ug/L
|	Pb	208	2662.499	0.00	0.0492	0.005	10.422	ug/L
|	U	238	27.000	0.00	-0.0008	0.000	11.734	ug/L
⌊>	Bi	209	498122.519	498122.52				ug/L

Sample ID: PBW 23 WG356896-04
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⌈	Na	23	83223.216	0.21	0.0078	0.000	4.790	mg/L
|	Mg	24	19347.306	0.06	0.0012	0.000	6.078	mg/L
|	K	39	584619.015	0.03	-0.0038	0.002	50.244	mg/L
|	Ca	43	703.429	0.00	0.0264	0.005	17.935	mg/L
|	Fe	54	94251.123	0.15	0.0759	0.002	3.206	mg/L
|	Fe	57	7433.509	-0.00	-0.0019	0.002	88.301	mg/L
⌊>	Sc-1	45	306356.290	306356.29				mg/L
	Cl	35	70689.645	51673.57				mg/L
	Kr	83	44.334	-16.33				mg/L
	Br	81	8180.013	-430.36				mg/L
	P	31	21028.800	7632.90				mg/L
	S	34	208074.015	20093.04				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.352			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.725			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.012			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.370			
⌈	Na	23					

Sample ID: PBW 23 WG356896-04
Report Date/Time: Tuesday, February 22, 2011 14:31:29
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Approved: February 23, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 23 WG356896-04
Report Date/Time: Tuesday, February 22, 2011 14:31:29
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: LCSW 23 WG356896-05

Sample Date/Time: Tuesday, February 22, 2011 14:36:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20888.501	0.01				ug/L
|	Be	9	7125.873	0.02	27.0767	0.923	3.410	ug/L
|	Al	27	195291.281	0.63	31.3937	1.454	4.632	ug/L
⌊>	Sc	45	305925.898	305925.90				ug/L
⌈	Ti	49	220.025	0.00	0.3385	0.086	25.513	ug/L
|	V	51	248408.692	0.55	27.3402	0.465	1.701	ug/L
|	Cr	52	220773.677	0.48	27.9410	0.380	1.361	ug/L
|	Cr	53	25127.387	0.06	27.4917	0.710	2.584	ug/L
|	Mn	55	327522.846	0.74	27.8955	0.403	1.446	ug/L
|	Co	59	257548.638	0.58	27.4329	0.179	0.651	ug/L
|	Ni	60	54651.490	0.12	27.8752	0.412	1.479	ug/L
|	Cu	65	55952.671	0.13	27.6149	0.476	1.723	ug/L
|	Zn	66	33498.691	0.07	27.6418	0.515	1.864	ug/L
| >	Ge	72	444846.790	444846.79				ug/L
|	As	75	23380.249	0.05	23.9587	0.239	0.999	ug/L
|	Se	77	1698.144	0.00	23.2372	0.638	2.744	ug/L
|	Se	82	2023.490	0.00	22.4910	0.770	3.423	ug/L
⌊	Rb	85	112.002	0.00				mg/L
	Y	89	284577.419	-63204.76				ug/L
	Rh	103	21.334	11.00				ug/L
⌈	Mo	98	42.945	0.00	0.0270	0.005	17.591	ug/L
|	Ag	107	109172.449	0.30	24.2753	0.589	2.425	ug/L
|	Cd	114	25923.762	0.07	24.3800	0.781	3.203	ug/L
| >	In	115	362976.087	362976.09				ug/L
|	Sn	118	1137.531	0.00	0.2793	0.009	3.045	ug/L
⌊	Sb	123	91940.051	0.25	24.9204	0.696	2.794	ug/L
⌈	Ba	135	41812.656	0.08	24.5589	0.327	1.332	ug/L
|	Ce	140	403.382	0.00				ug/L
⌊>	Tb	159	504383.350	504383.35				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	186327.893	0.38	26.9196	0.503	1.870	ug/L
|	Tl	205	456907.579	0.93	26.6953	0.801	3.002	ug/L
|	Pb	206	158608.138	0.32	28.0888	0.646	2.298	ug/L
|	Pb	207	136540.334	0.28	25.7041	0.829	3.225	ug/L
|	Pb	208	634790.259	1.29	26.9018	0.360	1.339	ug/L
|	U	238	944578.784	1.92	27.2363	0.610	2.239	ug/L
⌊>	Bi	209	492674.845	492674.85				ug/L

Sample ID: LCSW 23 WG356896-05
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⌈	Na	23	101341.057	0.27	0.0109	0.000	3.262	mg/L
|	Mg	24	49872.433	0.16	0.0097	0.000	3.144	mg/L
|	K	39	638247.527	0.21	0.0026	0.000	11.731	mg/L
|	Ca	43	800.112	0.00	0.0315	0.003	10.754	mg/L
|	Fe	54	97831.131	0.16	0.0818	0.006	7.740	mg/L
|	Fe	57	10569.977	0.01	0.0103	0.001	10.859	mg/L
⌊>	Sc-1	45	305925.898	305925.90				mg/L
	Cl	35	261965.813	242949.74				mg/L
	Kr	83	47.334	-13.33				mg/L
	Br	81	8590.357	-20.02				mg/L
	P	31	23837.358	10441.46				mg/L
	S	34	236513.255	48532.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.134			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.472			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.294			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.272			
⌈	Na	23					

Sample ID: LCSW 23 WG356896-05
Report Date/Time: Tuesday, February 22, 2011 14:38:13
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Approved: February 23, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 23 WG356896-05
Report Date/Time: Tuesday, February 22, 2011 14:38:13

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102040202

Sample Date/Time: Tuesday, February 22, 2011 14:42:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20888.654	0.01				ug/L
|	Be	9	8.667	0.00	-0.0200	0.012	62.452	ug/L
|	Al	27	269621.962	0.93	46.3405	6.007	12.963	ug/L
⌊>	Sc	45	287782.283	287782.28				ug/L
⌈	Ti	49	613.417	0.00	1.0205	0.549	53.790	ug/L
|	V	51	3284.280	0.00	0.1209	0.008	6.450	ug/L
|	Cr	52	10165.599	0.01	0.3610	0.021	5.856	ug/L
|	Cr	53	453.389	0.00	0.3570	0.069	19.201	ug/L
|	Mn	55	67610.148	0.15	5.7455	0.057	0.992	ug/L
|	Co	59	771.037	0.00	0.0736	0.002	2.302	ug/L
|	Ni	60	715.033	0.00	0.3599	0.022	6.188	ug/L
|	Cu	65	454.682	0.00	0.1564	0.005	3.210	ug/L
|	Zn	66	4207.594	0.01	2.9725	0.033	1.124	ug/L
|>	Ge	72	443273.191	443273.19				ug/L
|	As	75	-91.706	0.00	0.0582	0.045	77.370	ug/L
|	Se	77	54.667	-0.00	-0.2120	0.105	49.547	ug/L
|	Se	82	7.296	0.00	0.0976	0.072	73.625	ug/L
⌊	Rb	85	2046.230	0.00				mg/L
	Y	89	279400.352	-68381.83				ug/L
	Rh	103	13.000	2.67				ug/L
⌈	Mo	98	42.461	0.00	0.0269	0.002	6.206	ug/L
|	Ag	107	24.667	-0.00	0.0026	0.001	48.991	ug/L
|	Cd	114	4.187	-0.00	-0.0027	0.004	130.366	ug/L
|>	In	115	359683.251	359683.25				ug/L
|	Sn	118	125.867	0.00	0.0164	0.000	2.851	ug/L
⌊	Sb	123	72.577	0.00	0.0150	0.001	8.153	ug/L
⌈	Ba	135	6214.993	0.01	3.7958	0.030	0.784	ug/L
|	Ce	140	5982.388	0.01				ug/L
⌊>	Tb	159	486503.026	486503.03				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	58.001	0.00	0.0066	0.003	40.638	ug/L
|	Tl	205	123.346	0.00	0.0165	0.003	16.053	ug/L
|	Pb	206	843.711	0.00	0.0869	0.005	6.292	ug/L
|	Pb	207	740.702	0.00	0.0917	0.001	1.187	ug/L
|	Pb	208	3392.261	0.00	0.0869	0.002	2.378	ug/L
|	U	238	272.340	0.00	0.0066	0.000	4.194	ug/L
⌊>	Bi	209	474194.487	474194.49				ug/L

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⌈	Na	23	4060798.693	14.05	0.7432	0.024	3.250	mg/L
|	Mg	24	1298127.807	4.51	0.3756	0.013	3.575	mg/L
|	K	39	1923769.221	4.80	0.1677	0.002	1.104	mg/L
|	Ca	43	13280.142	0.05	0.7282	0.019	2.593	mg/L
|	Fe	54	132148.250	0.30	0.1496	0.010	6.586	mg/L
|	Fe	57	23259.361	0.05	0.0652	0.003	5.226	mg/L
⌊>	Sc-1	45	287782.283	287782.28				mg/L
	Cl	35	40857.976	21841.91				mg/L
	Kr	83	42.667	-18.00				mg/L
	Br	81	9152.187	541.81				mg/L
	P	31	22240.769	8844.87				mg/L
	S	34	216767.000	28786.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.833			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.633			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.738			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.548			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102040207 WG356896-01

Sample Date/Time: Tuesday, February 22, 2011 14:49:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22441.872	0.02				ug/L
|	Be	9	9.333	0.00	-0.0178	0.020	114.069	ug/L
|	Al	27	214459.249	0.73	36.2411	0.997	2.750	ug/L
⌊>	Sc	45	291693.187	291693.19				ug/L
⌈	Ti	49	503.396	0.00	0.8442	0.101	12.017	ug/L
|	V	51	3043.027	0.00	0.0999	0.014	14.147	ug/L
|	Cr	52	10344.118	0.01	0.4078	0.021	5.095	ug/L
|	Cr	53	483.394	0.00	0.3987	0.080	20.125	ug/L
|	Mn	55	54852.930	0.13	4.7348	0.074	1.557	ug/L
|	Co	59	631.360	0.00	0.0598	0.002	2.745	ug/L
|	Ni	60	653.695	0.00	0.3344	0.022	6.537	ug/L
|	Cu	65	381.011	0.00	0.1232	0.029	23.286	ug/L
|	Zn	66	2926.791	0.01	1.9323	0.079	4.064	ug/L
| >	Ge	72	435708.330	435708.33				ug/L
|	As	75	-127.782	0.00	0.0194	0.023	120.727	ug/L
|	Se	77	60.667	0.00	-0.1098	0.228	207.694	ug/L
|	Se	82	2.246	0.00	0.0422	0.092	216.959	ug/L
⌊	Rb	85	1845.189	0.00				mg/L
	Y	89	277299.800	-70482.38				ug/L
	Rh	103	9.000	-1.33				ug/L
⌈	Mo	98	50.238	0.00	0.0305	0.006	18.845	ug/L
|	Ag	107	31.334	-0.00	0.0042	0.000	5.728	ug/L
|	Cd	114	8.483	0.00	0.0014	0.002	118.694	ug/L
| >	In	115	355784.823	355784.82				ug/L
|	Sn	118	130.534	0.00	0.0180	0.004	20.307	ug/L
⌊	Sb	123	440.254	0.00	0.1168	0.006	4.868	ug/L
⌈	Ba	135	5639.313	0.01	3.4503	0.025	0.732	ug/L
|	Ce	140	4087.913	0.01				ug/L
⌊>	Tb	159	485804.858	485804.86				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	38.667	0.00	0.0037	0.000	8.315	ug/L
|	Tl	205	63.340	0.00	0.0129	0.002	18.225	ug/L
|	Pb	206	640.694	0.00	0.0497	0.006	11.639	ug/L
|	Pb	207	573.356	0.00	0.0592	0.002	3.166	ug/L
|	Pb	208	2643.832	0.00	0.0542	0.003	5.261	ug/L
|	U	238	247.339	0.00	0.0059	0.001	21.087	ug/L
⌊>	Bi	209	472951.133	472951.13				ug/L

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⌈	Na	23	4404277.147	15.03	0.7957	0.020	2.508	mg/L
|	Mg	24	1538214.080	5.27	0.4398	0.022	4.926	mg/L
|	K	39	1929805.276	4.74	0.1652	0.005	2.739	mg/L
|	Ca	43	14381.778	0.05	0.7787	0.028	3.558	mg/L
|	Fe	54	118297.313	0.24	0.1235	0.012	9.414	mg/L
|	Fe	57	20643.365	0.04	0.0533	0.003	6.249	mg/L
⌊>	Sc-1	45	291693.187	291693.19				mg/L
	Cl	35	31737.635	12721.56				mg/L
	Kr	83	48.334	-12.33				mg/L
	Br	81	8821.223	210.85				mg/L
	P	31	20814.360	7418.46				mg/L
	S	34	204885.001	16904.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		83.385			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
| >	In	115		90.640			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.600			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.298			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102040208S WG356896-06

Sample Date/Time: Tuesday, February 22, 2011 14:56:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24346.311	0.02				ug/L
|	Be	9	7251.964	0.02	28.3344	1.206	4.258	ug/L
|	Al	27	559587.097	1.87	93.6163	18.150	19.388	ug/L
⌊>	Sc	45	297614.604	297614.60				ug/L
⌈	Ti	49	740.103	0.00	1.2618	0.347	27.492	ug/L
|	V	51	244427.881	0.56	27.5288	0.511	1.857	ug/L
|	Cr	52	213414.970	0.47	27.6270	0.364	1.318	ug/L
|	Cr	53	24388.857	0.06	27.3013	1.322	4.842	ug/L
|	Mn	55	378156.124	0.87	32.9655	0.680	2.062	ug/L
|	Co	59	255233.251	0.59	27.8186	0.393	1.414	ug/L
|	Ni	60	54209.822	0.12	28.2950	0.956	3.378	ug/L
|	Cu	65	56455.852	0.13	28.5138	0.718	2.518	ug/L
|	Zn	66	33183.979	0.08	28.0263	0.619	2.209	ug/L
|>	Ge	72	434744.547	434744.55				ug/L
|	As	75	23048.855	0.05	24.1681	0.145	0.601	ug/L
|	Se	77	1616.797	0.00	22.6107	0.392	1.734	ug/L
|	Se	82	1964.836	0.00	22.3499	0.129	0.577	ug/L
⌊	Rb	85	2029.560	0.00				mg/L
	Y	89	278622.477	-69159.71				ug/L
	Rh	103	17.667	7.33				ug/L
⌈	Mo	98	52.799	0.00	0.0315	0.003	11.073	ug/L
|	Ag	107	106867.864	0.30	24.1845	0.746	3.085	ug/L
|	Cd	114	26512.583	0.07	25.3772	0.830	3.269	ug/L
|>	In	115	356587.829	356587.83				ug/L
|	Sn	118	170.535	0.00	0.0285	0.002	6.461	ug/L
⌊	Sb	123	90021.874	0.25	24.8277	0.296	1.191	ug/L
⌈	Ba	135	45136.420	0.09	26.9429	0.179	0.665	ug/L
|	Ce	140	4294.686	0.01				ug/L
⌊>	Tb	159	496259.242	496259.24				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	176746.110	0.37	26.3871	0.500	1.896	ug/L
|	Tl	205	432136.865	0.91	26.0860	0.439	1.682	ug/L
|	Pb	206	149419.124	0.31	27.3377	0.523	1.912	ug/L
|	Pb	207	135736.768	0.28	26.3960	0.907	3.434	ug/L
|	Pb	208	624155.526	1.31	27.3308	0.518	1.895	ug/L
|	U	238	960486.788	2.01	28.6116	0.866	3.026	ug/L
⌊>	Bi	209	476773.343	476773.34				ug/L

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⌈	Na	23	4740566.517	15.87	0.8401	0.032	3.817	mg/L
|	Mg	24	1420232.280	4.77	0.3977	0.015	3.768	mg/L
|	K	39	1965940.403	4.73	0.1649	0.006	3.800	mg/L
|	Ca	43	12539.113	0.04	0.6639	0.012	1.757	mg/L
|	Fe	54	128843.056	0.27	0.1368	0.002	1.252	mg/L
|	Fe	57	23329.569	0.05	0.0623	0.004	6.785	mg/L
⌊>	Sc-1	45	297614.604	297614.60				mg/L
	Cl	35	71451.714	52435.64				mg/L
	Kr	83	44.334	-16.33				mg/L
	Br	81	10836.540	2226.16				mg/L
	P	31	21945.762	8549.86				mg/L
	S	34	195583.855	7602.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.200			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.845			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.678			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.068			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102040208S WG356896-06
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Method 6020 - Summary Report

Sample ID: L1102040209SD WG356896-07

Sample Date/Time: Tuesday, February 22, 2011 15:03:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 39
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22926.268	0.02				ug/L
|	Be	9	7562.863	0.02	28.9059	1.570	5.432	ug/L
|	Al	27	382359.504	1.25	62.3159	4.169	6.691	ug/L
⌊>	Sc	45	304278.282	304278.28				ug/L
⌈	Ti	49	370.044	0.00	0.6004	0.020	3.376	ug/L
|	V	51	247121.506	0.55	27.3569	0.895	3.271	ug/L
|	Cr	52	221543.200	0.48	28.2161	0.825	2.924	ug/L
|	Cr	53	25792.469	0.06	28.3883	0.225	0.791	ug/L
|	Mn	55	390074.233	0.88	33.4270	0.299	0.894	ug/L
|	Co	59	265450.750	0.60	28.4411	0.158	0.555	ug/L
|	Ni	60	56133.749	0.13	28.7974	0.694	2.411	ug/L
|	Cu	65	57882.361	0.13	28.7324	0.485	1.687	ug/L
|	Zn	66	34125.806	0.08	28.3381	0.070	0.246	ug/L
| >	Ge	72	442252.448	442252.45				ug/L
|	As	75	23497.630	0.05	24.2195	0.164	0.679	ug/L
|	Se	77	1685.475	0.00	23.2004	0.985	4.245	ug/L
|	Se	82	2007.190	0.00	22.4454	0.416	1.854	ug/L
⌊	Rb	85	1895.199	0.00				mg/L
	Y	89	280310.428	-67471.76				ug/L
	Rh	103	17.667	7.33				ug/L
⌈	Mo	98	56.571	0.00	0.0321	0.001	4.379	ug/L
|	Ag	107	108311.386	0.29	23.5330	0.728	3.092	ug/L
|	Cd	114	27134.759	0.07	24.9329	0.671	2.690	ug/L
| >	In	115	371369.295	371369.29				ug/L
|	Sn	118	204.935	0.00	0.0355	0.003	8.368	ug/L
⌊	Sb	123	93996.653	0.25	24.8911	0.241	0.967	ug/L
⌈	Ba	135	46892.830	0.09	27.0144	0.316	1.171	ug/L
|	Ce	140	4354.724	0.01				ug/L
⌊>	Tb	159	514228.242	514228.24				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	186129.019	0.37	26.3924	0.756	2.865	ug/L
|	Tl	205	466342.988	0.93	26.7387	1.047	3.917	ug/L
|	Pb	206	158670.206	0.32	27.5693	0.448	1.626	ug/L
|	Pb	207	136959.276	0.27	25.2932	0.614	2.429	ug/L
|	Pb	208	642960.891	1.28	26.7375	0.611	2.285	ug/L
|	U	238	992303.315	1.98	28.0652	0.739	2.634	ug/L
⌊>	Bi	209	502115.226	502115.23				ug/L

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⌈	Na	23	4484226.338	14.68	0.7767	0.030	3.922	mg/L
|	Mg	24	1391676.051	4.57	0.3810	0.012	3.254	mg/L
|	K	39	1894698.714	4.35	0.1513	0.002	1.432	mg/L
|	Ca	43	12422.298	0.04	0.6428	0.024	3.667	mg/L
|	Fe	54	128052.821	0.26	0.1311	0.009	6.866	mg/L
|	Fe	57	21712.385	0.04	0.0540	0.003	5.238	mg/L
⌊>	Sc-1	45	304278.282	304278.28				mg/L
	Cl	35	156659.522	137643.45				mg/L
	Kr	83	43.001	-17.67				mg/L
	Br	81	11892.402	3282.03				mg/L
	P	31	22258.765	8862.86				mg/L
	S	34	216552.795	28571.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.637			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.610			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.251			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.174			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102040209SD WG356896-07
Report Date/Time: Tuesday, February 22, 2011 15:05:16
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Method 6020 - Summary Report

Sample ID: L1102040214

Sample Date/Time: Tuesday, February 22, 2011 15:09:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 40
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21088.967	0.01				ug/L
|	Be	9	11.333	0.00	-0.0096	0.011	116.416	ug/L
|	Al	27	183712.805	0.62	30.9103	1.420	4.593	ug/L
⌊>	Sc	45	291903.198	291903.20				ug/L
⌈	Ti	49	306.702	0.00	0.4895	0.004	0.830	ug/L
|	V	51	2990.974	0.00	0.0882	0.009	10.455	ug/L
|	Cr	52	9948.379	0.01	0.3324	0.005	1.480	ug/L
|	Cr	53	483.393	0.00	0.3897	0.028	7.229	ug/L
|	Mn	55	90856.869	0.20	7.7358	0.048	0.618	ug/L
|	Co	59	588.023	0.00	0.0540	0.003	6.151	ug/L
|	Ni	60	515.685	0.00	0.2580	0.006	2.294	ug/L
|	Cu	65	449.015	0.00	0.1537	0.003	2.082	ug/L
|	Zn	66	2394.977	0.00	1.4403	0.052	3.578	ug/L
| >	Ge	72	443214.470	443214.47				ug/L
|	As	75	-98.996	0.00	0.0513	0.029	55.900	ug/L
|	Se	77	54.000	-0.00	-0.2215	0.152	68.746	ug/L
|	Se	82	11.626	0.00	0.1470	0.098	66.385	ug/L
⌊	Rb	85	1612.479	0.00				mg/L
	Y	89	274490.016	-73292.17				ug/L
	Rh	103	13.667	3.33				ug/L
⌈	Mo	98	36.685	0.00	0.0240	0.001	3.620	ug/L
|	Ag	107	23.667	-0.00	0.0023	0.000	12.712	ug/L
|	Cd	114	4.940	0.00	-0.0022	0.001	49.961	ug/L
| >	In	115	369986.417	369986.42				ug/L
|	Sn	118	146.801	0.00	0.0208	0.002	11.057	ug/L
⌊	Sb	123	122.200	0.00	0.0276	0.002	7.682	ug/L
⌈	Ba	135	6095.586	0.01	3.6522	0.076	2.079	ug/L
|	Ce	140	3174.154	0.01				ug/L
⌊>	Tb	159	495910.379	495910.38				ug/L
⌈	Ho	165	63.340	0.00				ug/L
|	Tl	203	29.000	0.00	0.0021	0.001	50.833	ug/L
|	Tl	205	40.004	0.00	0.0113	0.001	5.195	ug/L
|	Pb	206	622.026	0.00	0.0423	0.002	5.577	ug/L
|	Pb	207	526.686	0.00	0.0465	0.002	5.204	ug/L
|	Pb	208	2536.155	0.00	0.0455	0.002	4.679	ug/L
|	U	238	158.336	0.00	0.0030	0.001	26.686	ug/L
⌊>	Bi	209	490076.939	490076.94				ug/L

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⌈	Na	23	5464690.519	18.69	0.9900	0.074	7.511	mg/L
|	Mg	24	1577660.949	5.41	0.4513	0.021	4.620	mg/L
|	K	39	2113458.339	5.37	0.1879	0.011	5.761	mg/L
|	Ca	43	14605.456	0.05	0.7910	0.031	3.914	mg/L
|	Fe	54	139165.474	0.32	0.1583	0.008	5.244	mg/L
|	Fe	57	27152.897	0.07	0.0797	0.003	3.561	mg/L
⌊>	Sc-1	45	291903.198	291903.20				mg/L
	Cl	35	62015.060	42998.99				mg/L
	Kr	83	43.001	-17.67				mg/L
	Br	81	10079.078	1468.70				mg/L
	P	31	20943.284	7547.38				mg/L
	S	34	219668.323	31687.35				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.821			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.258			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.609			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.749			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102040214
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102040217

Sample Date/Time: Tuesday, February 22, 2011 15:16:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 41
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23227.311	0.02				ug/L
|	Be	9	8.667	0.00	-0.0208	0.020	95.932	ug/L
|	Al	27	207327.822	0.69	34.5276	1.736	5.027	ug/L
⌊>	Sc	45	296037.169	296037.17				ug/L
⌈	Ti	49	383.379	0.00	0.6204	0.086	13.837	ug/L
|	V	51	2880.742	0.00	0.0756	0.003	4.451	ug/L
|	Cr	52	10134.901	0.01	0.3555	0.011	3.057	ug/L
|	Cr	53	540.069	0.00	0.4529	0.138	30.428	ug/L
|	Mn	55	89628.805	0.20	7.6226	0.025	0.326	ug/L
|	Co	59	537.687	0.00	0.0485	0.003	6.722	ug/L
|	Ni	60	635.360	0.00	0.3188	0.016	5.107	ug/L
|	Cu	65	1321.767	0.00	0.5863	0.013	2.191	ug/L
|	Zn	66	5968.869	0.01	4.4502	0.708	15.904	ug/L
|>	Ge	72	443716.327	443716.33				ug/L
|	As	75	-157.520	0.00	-0.0081	0.044	549.330	ug/L
|	Se	77	62.000	0.00	-0.1061	0.097	91.575	ug/L
|	Se	82	-4.078	0.00	-0.0276	0.109	396.038	ug/L
⌊	Rb	85	1639.151	0.00				mg/L
	Y	89	275641.318	-72140.87				ug/L
	Rh	103	12.333	2.00				ug/L
⌈	Mo	98	56.603	0.00	0.0324	0.003	10.120	ug/L
|	Ag	107	31.334	-0.00	0.0040	0.001	18.719	ug/L
|	Cd	114	-0.310	-0.00	-0.0070	0.006	91.260	ug/L
|>	In	115	366945.296	366945.30				ug/L
|	Sn	118	634.820	0.00	0.1467	0.012	8.358	ug/L
⌊	Sb	123	68.952	0.00	0.0136	0.002	13.916	ug/L
⌈	Ba	135	5970.842	0.01	3.5011	0.139	3.958	ug/L
|	Ce	140	3087.452	0.01				ug/L
⌊>	Tb	159	507174.477	507174.48				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	22.000	0.00	0.0010	0.000	40.894	ug/L
|	Tl	205	46.672	0.00	0.0117	0.002	20.582	ug/L
|	Pb	206	638.027	0.00	0.0453	0.003	7.283	ug/L
|	Pb	207	534.020	0.00	0.0481	0.003	6.032	ug/L
|	Pb	208	2475.478	0.00	0.0431	0.002	4.941	ug/L
|	U	238	141.336	0.00	0.0026	0.000	9.509	ug/L
⌊>	Bi	209	489345.504	489345.50				ug/L

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⌈	Na	23	5440750.400	18.33	0.9707	0.042	4.318	mg/L
|	Mg	24	1596352.033	5.40	0.4502	0.025	5.537	mg/L
|	K	39	2077945.764	5.14	0.1798	0.006	3.556	mg/L
|	Ca	43	15002.755	0.05	0.8006	0.011	1.399	mg/L
|	Fe	54	134713.265	0.29	0.1476	0.005	3.107	mg/L
|	Fe	57	27169.573	0.06	0.0783	0.003	3.338	mg/L
⌊>	Sc-1	45	296037.169	296037.17				mg/L
	Cl	35	81386.798	62370.73				mg/L
	Kr	83	47.334	-13.33				mg/L
	Br	81	9381.077	770.70				mg/L
	P	31	24949.328	11553.43				mg/L
	S	34	215290.493	27309.52				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.917			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.483			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.849			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.601			
⌈	Na	23					

Sample ID: L1102040217
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102040217
Report Date/Time: Tuesday, February 22, 2011 15:18:49
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102040217PS WG356974-01

Sample Date/Time: Tuesday, February 22, 2011 15:23:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 42
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20320.653	0.01				ug/L
|	Be	9	14216.766	0.05	58.3654	2.482	4.253	ug/L
|	Al	27	495182.613	1.74	86.7627	7.240	8.344	ug/L
⌊>	Sc	45	283756.857	283756.86				ug/L
⌈	Ti	49	410.049	0.00	0.6857	0.020	2.874	ug/L
|	V	51	469311.887	1.08	53.3682	0.889	1.666	ug/L
|	Cr	52	407628.545	0.93	53.9500	0.450	0.834	ug/L
|	Cr	53	46767.107	0.11	52.7719	0.274	0.519	ug/L
|	Mn	55	701750.483	1.62	61.5420	0.998	1.621	ug/L
|	Co	59	490234.460	1.13	53.7311	1.044	1.943	ug/L
|	Ni	60	102262.595	0.24	53.6639	0.260	0.485	ug/L
|	Cu	65	106839.484	0.25	54.3145	0.979	1.803	ug/L
|	Zn	66	58048.579	0.13	49.7369	0.661	1.329	ug/L
| >	Ge	72	432402.609	432402.61				ug/L
|	As	75	44714.351	0.10	46.9922	0.514	1.093	ug/L
|	Se	77	2977.111	0.01	42.6992	2.483	5.815	ug/L
|	Se	82	3841.083	0.01	43.9145	1.440	3.278	ug/L
⌊	Rb	85	1631.483	0.00				mg/L
	Y	89	274034.446	-73747.74				ug/L
	Rh	103	26.000	15.67				ug/L
⌈	Mo	98	44.274	0.00	0.0284	0.002	7.454	ug/L
|	Ag	107	206828.199	0.60	48.1677	0.904	1.876	ug/L
|	Cd	114	50411.676	0.15	49.6600	0.872	1.756	ug/L
| >	In	115	346509.864	346509.86				ug/L
|	Sn	118	672.556	0.00	0.1666	0.003	1.536	ug/L
⌊	Sb	123	177445.602	0.51	50.3797	1.339	2.658	ug/L
⌈	Ba	135	82200.758	0.17	51.7405	0.773	1.494	ug/L
|	Ce	140	2804.010	0.01				ug/L
⌊>	Tb	159	470455.883	470455.88				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	336873.487	0.74	52.4217	1.948	3.715	ug/L
|	Tl	205	832480.611	1.82	52.3615	1.496	2.858	ug/L
|	Pb	206	280843.693	0.61	53.6214	1.959	3.652	ug/L
|	Pb	207	245901.879	0.54	49.8910	1.918	3.845	ug/L
|	Pb	208	1148730.170	2.51	52.4850	1.898	3.617	ug/L
|	U	238	1756730.398	3.84	54.5253	1.190	2.183	ug/L
⌊>	Bi	209	457712.196	457712.20				ug/L

Sample ID: L1102040217PS WG356974-01
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⌈	Na	23	5100702.032	17.91	0.9487	0.006	0.624	mg/L
|	Mg	24	1500145.504	5.29	0.4413	0.019	4.360	mg/L
|	K	39	1957847.217	5.03	0.1757	0.010	5.455	mg/L
|	Ca	43	13390.298	0.05	0.7458	0.039	5.195	mg/L
|	Fe	54	133340.182	0.31	0.1550	0.007	4.837	mg/L
|	Fe	57	24966.978	0.06	0.0739	0.006	8.660	mg/L
⌊>	Sc-1	45	283756.857	283756.86				mg/L
	Cl	35	77029.570	58013.50				mg/L
	Kr	83	43.334	-17.33				mg/L
	Br	81	8893.954	283.58				mg/L
	P	31	20781.121	7385.22				mg/L
	S	34	185388.858	-2592.12				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		82.752			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
| >	In	115		88.277			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.548			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.227			
⌈	Na	23					

Sample ID: L1102040217PS WG356974-01
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102040217PS WG356974-01
Report Date/Time: Tuesday, February 22, 2011 15:25:37
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102040217SDL WG356974-02

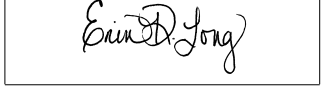
Sample Date/Time: Tuesday, February 22, 2011 15:30:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 43
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20053.456	0.01				ug/L
|	Be	9	8.000	0.00	-0.0217	0.022	101.463	ug/L
|	Al	27	49976.229	0.17	8.4858	1.385	16.321	ug/L
⌊>	Sc	45	277772.133	277772.13				ug/L
⌈	Ti	49	123.347	0.00	0.1753	0.081	46.213	ug/L
|	V	51	2247.190	0.00	0.0086	0.003	30.455	ug/L
|	Cr	52	7592.958	0.00	0.0359	0.024	67.701	ug/L
|	Cr	53	330.039	0.00	0.2250	0.055	24.516	ug/L
|	Mn	55	17499.143	0.04	1.4760	0.051	3.489	ug/L
|	Co	59	153.003	0.00	0.0077	0.002	25.699	ug/L
|	Ni	60	284.340	0.00	0.1414	0.010	7.386	ug/L
|	Cu	65	360.010	0.00	0.1118	0.006	5.540	ug/L
|	Zn	66	3184.205	0.01	2.1425	0.010	0.464	ug/L
|>	Ge	72	437513.971	437513.97				ug/L
|	As	75	-90.363	0.00	0.0587	0.010	16.713	ug/L
|	Se	77	55.333	-0.00	-0.1918	0.077	40.302	ug/L
|	Se	82	7.603	0.00	0.1019	0.098	96.546	ug/L
⌊	Rb	85	335.676	0.00				mg/L
	Y	89	271783.962	-75998.22				ug/L
	Rh	103	11.000	0.67				ug/L
⌈	Mo	98	20.009	0.00	0.0178	0.000	1.828	ug/L
|	Ag	107	25.334	-0.00	0.0030	0.000	9.434	ug/L
|	Cd	114	0.537	-0.00	-0.0062	0.003	48.928	ug/L
|>	In	115	345624.426	345624.43				ug/L
|	Sn	118	179.602	0.00	0.0324	0.003	8.626	ug/L
⌊	Sb	123	377.878	0.00	0.1026	0.012	11.606	ug/L
⌈	Ba	135	1175.081	0.00	0.7594	0.019	2.540	ug/L
|	Ce	140	606.746	0.00				ug/L
⌊>	Tb	159	466341.972	466341.97				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	21.667	0.00	0.0012	0.001	48.723	ug/L
|	Tl	205	53.339	0.00	0.0124	0.001	11.030	ug/L
|	Pb	206	402.679	0.00	0.0086	0.004	48.016	ug/L
|	Pb	207	360.343	0.00	0.0202	0.004	20.523	ug/L
|	Pb	208	1632.069	0.00	0.0122	0.004	31.064	ug/L
|	U	238	75.334	0.00	0.0008	0.000	17.056	ug/L
⌊>	Bi	209	455560.722	455560.72				ug/L

Approved: February 23, 2011



⌈	Na	23	1043910.071	3.69	0.1930	0.007	3.465	mg/L
|	Mg	24	310542.538	1.12	0.0900	0.001	0.756	mg/L
|	K	39	849741.018	1.18	0.0375	0.000	0.563	mg/L
|	Ca	43	3040.768	0.01	0.1650	0.016	9.920	mg/L
|	Fe	54	56622.532	0.04	0.0254	0.004	14.008	mg/L
|	Fe	57	9598.901	0.01	0.0103	0.002	17.067	mg/L
⌊>	Sc-1	45	277772.133	277772.13				mg/L
	Cl	35	28724.530	9708.46				mg/L
	Kr	83	45.667	-15.00				mg/L
	Br	81	6919.060	-1691.32				mg/L
	P	31	12576.601	-819.30				mg/L
	S	34	173117.845	-14863.13				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.730			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.051			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.730			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.794			
⌈	Na	23					

Sample ID: L1102040217SDL WG356974-02
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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 22, 2011 15:36:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18016.558	0.01				ug/L
|	Be	9	13208.061	0.05	55.6741	2.186	3.927	ug/L
|	Al	27	284855.267	1.03	51.1820	4.783	9.346	ug/L
⌊>	Sc	45	276235.252	276235.25				ug/L
⌈	Ti	49	58372.364	0.13	101.5154	1.461	1.439	ug/L
|	V	51	450821.953	1.02	50.3843	1.233	2.448	ug/L
|	Cr	52	384974.181	0.86	50.0205	1.154	2.307	ug/L
|	Cr	53	44968.765	0.10	49.8758	1.767	3.543	ug/L
|	Mn	55	567533.202	1.29	48.9095	0.809	1.654	ug/L
|	Co	59	453578.986	1.03	48.8606	0.369	0.755	ug/L
|	Ni	60	96817.136	0.22	49.9431	1.022	2.046	ug/L
|	Cu	65	99705.714	0.23	49.8125	0.743	1.492	ug/L
|	Zn	66	60499.744	0.14	50.9661	0.599	1.175	ug/L
⌊>	Ge	72	439901.059	439901.06				ug/L
|	As	75	47381.935	0.11	48.9410	0.789	1.613	ug/L
|	Se	77	3456.598	0.01	48.8749	1.910	3.908	ug/L
|	Se	82	4384.540	0.01	49.2675	0.361	0.732	ug/L
⌊	Rb	85	1798.513	0.00				mg/L
	Y	89	282884.050	-64898.13				ug/L
	Rh	103	23.000	12.67				ug/L
⌈	Mo	98	219105.782	0.64	97.2211	0.419	0.431	ug/L
|	Ag	107	208466.277	0.61	49.0240	0.948	1.933	ug/L
|	Cd	114	50022.487	0.15	49.7501	1.062	2.135	ug/L
⌊>	In	115	343144.940	343144.94				ug/L
|	Sn	118	178027.800	0.52	48.9563	0.420	0.859	ug/L
⌊	Sb	123	174120.069	0.51	49.9076	0.430	0.861	ug/L
⌈	Ba	135	73307.801	0.16	47.7311	0.875	1.834	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	454910.280	454910.28				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	311998.446	0.70	50.1638	2.137	4.260	ug/L
|	Tl	205	769874.523	1.74	50.0329	2.185	4.367	ug/L
|	Pb	206	250788.128	0.57	49.4584	1.510	3.053	ug/L
|	Pb	207	236885.676	0.53	49.6326	0.829	1.669	ug/L
|	Pb	208	1055309.270	2.38	49.7877	0.795	1.598	ug/L
|	U	238	1604168.863	3.62	51.4238	0.427	0.830	ug/L
⌊>	Bi	209	443009.071	443009.07				ug/L

Sample ID: QC Std 6
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Na	23	27061779.340	98.10	5.2099	0.352	6.762	mg/L
Mg	24	17149464.261	62.14	5.2257	0.191	3.652	mg/L
K	39	40576148.093	145.33	5.2138	0.377	7.233	mg/L
Ca	43	88895.705	0.32	5.1493	0.335	6.500	mg/L
Fe	54	2831074.528	10.10	4.9169	0.262	5.328	mg/L
Fe	57	1141313.288	4.11	4.8835	0.377	7.719	mg/L
Sc-1	45	276235.252	276235.25				mg/L
Cl	35	18555.874	-460.20				mg/L
Kr	83	56.334	-4.33				mg/L
Br	81	6905.051	-1705.32				mg/L
P	31	11170.302	-2225.60				mg/L
S	34	211652.458	23671.48				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	100.769				
Cr	52	100.041				
Cr	53					
Mn	55	97.819				
Co	59	97.721				
Ni	60	99.886				
Cu	65	99.625				
Zn	66	101.932				
Ge	72		84.187			
As	75	97.882				
Se	77					
Se	82	98.535				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.048				
Cd	114	99.500				
In	115		87.420			
Sn	118					
Sb	123	99.815				
Ba	135	95.462				
Ce	140					
Tb	159		90.456			
Ho	165					
Tl	203	100.328				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.575				
U	238	102.848				
Bi	209		89.265			
Na	23					

Sample ID: QC Std 6
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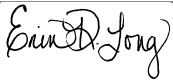

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 15:39:11

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 22, 2011 15:44:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17248.198	0.00				ug/L
|	Be	9	7.333	0.00	-0.0254	0.023	90.386	ug/L
|	Al	27	3167.172	0.00	0.0365	0.087	237.173	ug/L
⌊>	Sc	45	286158.748	286158.75				ug/L
⌈	Ti	49	56.673	0.00	0.0584	0.028	47.508	ug/L
|	V	51	2095.662	-0.00	-0.0108	0.009	85.490	ug/L
|	Cr	52	7057.227	-0.00	-0.0449	0.022	48.939	ug/L
|	Cr	53	186.687	-0.00	0.0626	0.015	23.326	ug/L
|	Mn	55	316.342	0.00	-0.0150	0.002	13.314	ug/L
|	Co	59	52.667	0.00	-0.0032	0.000	15.158	ug/L
|	Ni	60	40.000	-0.00	0.0144	0.003	23.403	ug/L
|	Cu	65	105.335	0.00	-0.0168	0.006	34.689	ug/L
|	Zn	66	512.352	0.00	-0.1511	0.014	8.969	ug/L
|>	Ge	72	441985.881	441985.88				ug/L
|	As	75	-115.724	0.00	0.0337	0.004	12.024	ug/L
|	Se	77	57.334	0.00	-0.1684	0.240	142.786	ug/L
|	Se	82	3.936	0.00	0.0605	0.033	55.089	ug/L
⌊	Rb	85	21.000	0.00				mg/L
	Y	89	282836.479	-64945.70				ug/L
	Rh	103	12.000	1.67				ug/L
⌈	Mo	98	104.759	0.00	0.0561	0.002	3.913	ug/L
|	Ag	107	22.000	-0.00	0.0024	0.000	17.085	ug/L
|	Cd	114	2.136	-0.00	-0.0046	0.006	124.389	ug/L
|>	In	115	338270.745	338270.75				ug/L
|	Sn	118	232.536	0.00	0.0484	0.008	17.551	ug/L
⌊	Sb	123	96.118	0.00	0.0231	0.002	7.374	ug/L
⌈	Ba	135	20.334	0.00	0.0268	0.003	12.962	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	446813.681	446813.68				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	25.334	0.00	0.0018	0.001	52.212	ug/L
|	Tl	205	33.337	0.00	0.0111	0.000	3.019	ug/L
|	Pb	206	357.677	0.00	0.0006	0.001	207.840	ug/L
|	Pb	207	293.674	-0.00	0.0070	0.005	69.175	ug/L
|	Pb	208	1398.386	-0.00	0.0020	0.002	85.218	ug/L
|	U	238	72.334	0.00	0.0007	0.001	96.688	ug/L
⌊>	Bi	209	451310.406	451310.41				ug/L

Sample ID: QC Std 7
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⌈	Na	23	18756.117	0.00	-0.0032	0.000	4.583	mg/L
|	Mg	24	523.399	0.00	-0.0039	0.000	0.541	mg/L
|	K	39	551544.415	0.05	-0.0030	0.004	132.964	mg/L
|	Ca	43	153.350	-0.00	-0.0018	0.003	178.336	mg/L
|	Fe	54	40092.509	-0.02	-0.0055	0.004	67.215	mg/L
|	Fe	57	6506.100	-0.00	-0.0037	0.001	21.315	mg/L
⌊>	Sc-1	45	286158.748	286158.75				mg/L
	Cl	35	17450.553	-1565.52				mg/L
	Kr	83	45.667	-15.00				mg/L
	Br	81	6736.272	-1874.10				mg/L
	P	31	10059.065	-3336.84				mg/L
	S	34	186281.996	-1698.98				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.586			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.178			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.846			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.937			
⌈	Na	23					

Sample ID: QC Std 7
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 15:46:25

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102040220

Sample Date/Time: Tuesday, February 22, 2011 15:51:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 44
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19569.520	0.01				ug/L
|	Be	9	8.667	0.00	-0.0194	0.014	72.994	ug/L
|	Al	27	28657.688	0.09	4.4976	0.317	7.051	ug/L
⌊>	Sc	45	286090.232	286090.23				ug/L
⌈	Ti	49	60.006	0.00	0.0653	0.031	47.083	ug/L
|	V	51	2422.050	0.00	0.0293	0.007	22.374	ug/L
|	Cr	52	10355.129	0.01	0.4079	0.011	2.777	ug/L
|	Cr	53	480.060	0.00	0.3948	0.092	23.250	ug/L
|	Mn	55	6328.066	0.01	0.5085	0.021	4.111	ug/L
|	Co	59	118.002	0.00	0.0039	0.000	8.233	ug/L
|	Ni	60	250.672	0.00	0.1243	0.005	3.983	ug/L
|	Cu	65	241.339	0.00	0.0525	0.005	9.917	ug/L
|	Zn	66	2510.341	0.00	1.5723	0.114	7.277	ug/L
| >	Ge	72	436145.875	436145.88				ug/L
|	As	75	-134.457	0.00	0.0126	0.010	77.505	ug/L
|	Se	77	50.667	-0.00	-0.2558	0.143	55.786	ug/L
|	Se	82	-1.446	0.00	0.0003	0.080	31358.341	ug/L
⌊	Rb	85	72.334	0.00				mg/L
	Y	89	283792.282	-63989.90				ug/L
	Rh	103	8.667	-1.67				ug/L
⌈	Mo	98	65.019	0.00	0.0376	0.005	12.936	ug/L
|	Ag	107	46.667	0.00	0.0080	0.002	27.651	ug/L
|	Cd	114	3.718	-0.00	-0.0031	0.005	149.848	ug/L
| >	In	115	345423.549	345423.55				ug/L
|	Sn	118	318.405	0.00	0.0704	0.002	2.856	ug/L
⌊	Sb	123	108.535	0.00	0.0260	0.004	14.002	ug/L
⌈	Ba	135	117.669	0.00	0.0861	0.012	13.718	ug/L
|	Ce	140	506.730	0.00				ug/L
⌊>	Tb	159	478137.477	478137.48				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	29.000	0.00	0.0023	0.000	14.585	ug/L
|	Tl	205	86.676	0.00	0.0144	0.001	6.543	ug/L
|	Pb	206	442.348	0.00	0.0151	0.005	31.341	ug/L
|	Pb	207	400.012	0.00	0.0272	0.003	11.400	ug/L
|	Pb	208	1800.415	0.00	0.0189	0.001	2.900	ug/L
|	U	238	122.002	0.00	0.0022	0.001	27.095	ug/L
⌊>	Bi	209	461115.093	461115.09				ug/L

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Na	23	154516.728	0.48	0.0221	0.001	5.447	mg/L	
Mg	24	29690.352	0.10	0.0047	0.000	2.123	mg/L	
K	39	604564.963	0.24	0.0037	0.005	131.693	mg/L	
Ca	43	656.754	0.00	0.0265	0.006	21.120	mg/L	
Fe	54	92088.360	0.16	0.0831	0.009	10.675	mg/L	
Fe	57	8030.694	0.00	0.0027	0.002	84.258	mg/L	
> Sc-1	45	286090.232	286090.23				mg/L	
Cl	35	55098.733	36082.66				mg/L	
Kr	83	51.334	-9.33				mg/L	
Br	81	7277.314	-1333.06				mg/L	
P	31	22729.492	9333.59				mg/L	
S	34	185703.565	-2277.41				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		83.469			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		88.000			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		95.075			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		92.913			
Na	23					

Sample ID: L1102040220
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102040220
Report Date/Time: Tuesday, February 22, 2011 15:53:13
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102040223

Sample Date/Time: Tuesday, February 22, 2011 15:57:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 45
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20587.950	0.01				ug/L
|	Be	9	4.667	0.00	-0.0360	0.009	26.204	ug/L
|	Al	27	38758.428	0.13	6.2931	0.206	3.279	ug/L
|>	Sc	45	284319.802	284319.80				ug/L
⌈	Ti	49	66.674	0.00	0.0754	0.026	33.863	ug/L
|	V	51	2359.841	0.00	0.0191	0.009	45.688	ug/L
|	Cr	52	9849.614	0.01	0.3251	0.028	8.622	ug/L
|	Cr	53	433.386	0.00	0.3372	0.102	30.351	ug/L
|	Mn	55	3641.033	0.01	0.2709	0.008	3.047	ug/L
|	Co	59	97.335	0.00	0.0016	0.001	36.636	ug/L
|	Ni	60	174.337	0.00	0.0836	0.015	17.455	ug/L
|	Cu	65	191.337	0.00	0.0261	0.007	24.924	ug/L
|	Zn	66	1932.540	0.00	1.0554	0.054	5.090	ug/L
|>	Ge	72	441346.723	441346.72				ug/L
|	As	75	-97.980	0.00	0.0520	0.060	115.245	ug/L
|	Se	77	59.334	0.00	-0.1414	0.186	131.534	ug/L
|	Se	82	13.226	0.00	0.1654	0.154	92.851	ug/L
⌊	Rb	85	158.336	0.00				mg/L
	Y	89	290452.708	-57329.48				ug/L
	Rh	103	9.000	-1.33				ug/L
⌈	Mo	98	44.831	0.00	0.0284	0.002	7.867	ug/L
|	Ag	107	30.334	-0.00	0.0041	0.002	47.452	ug/L
|	Cd	114	8.389	0.00	0.0013	0.007	568.404	ug/L
|>	In	115	351789.822	351789.82				ug/L
|	Sn	118	195.069	0.00	0.0357	0.002	6.759	ug/L
⌊	Sb	123	89.619	0.00	0.0201	0.005	24.049	ug/L
⌈	Ba	135	119.002	0.00	0.0867	0.008	9.144	ug/L
|	Ce	140	326.705	0.00				ug/L
|>	Tb	159	480302.854	480302.85				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	25.000	0.00	0.0017	0.001	54.508	ug/L
|	Tl	205	73.341	0.00	0.0135	0.000	2.903	ug/L
|	Pb	206	432.347	0.00	0.0125	0.004	35.013	ug/L
|	Pb	207	350.676	0.00	0.0167	0.003	15.072	ug/L
|	Pb	208	1702.742	0.00	0.0139	0.002	12.194	ug/L
|	U	238	49.667	0.00	-0.0000	0.000	858.794	ug/L
|>	Bi	209	465103.049	465103.05				ug/L

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⌈	Na	23	77708.580	0.21	0.0079	0.000	4.808	mg/L
|	Mg	24	41443.213	0.14	0.0082	0.000	2.947	mg/L
|	K	39	621756.214	0.31	0.0062	0.002	39.892	mg/L
|	Ca	43	876.793	0.00	0.0390	0.002	6.340	mg/L
|	Fe	54	95562.181	0.17	0.0897	0.002	1.916	mg/L
|	Fe	57	8521.150	0.00	0.0049	0.001	27.097	mg/L
⌊>	Sc-1	45	284319.802	284319.80				mg/L
	Cl	35	48644.699	29628.63				mg/L
	Kr	83	50.667	-10.00				mg/L
	Br	81	8575.011	-35.36				mg/L
	P	31	22099.286	8703.38				mg/L
	S	34	204862.048	16881.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.464			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.622			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.506			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.716			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102043401

Sample Date/Time: Tuesday, February 22, 2011 16:04:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 46
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19903.151	0.01				ug/L
|	Be	9	8.000	0.00	-0.0217	0.044	202.875	ug/L
|	Al	27	51365.049	0.17	8.4134	0.243	2.888	ug/L
⌊>	Sc	45	287511.127	287511.13				ug/L
⌈	Ti	49	143.349	0.00	0.2175	0.028	12.737	ug/L
|	V	51	4640.987	0.01	0.2930	0.010	3.537	ug/L
|	Cr	52	14554.730	0.02	1.0152	0.021	2.081	ug/L
|	Cr	53	1183.522	0.00	1.2152	0.093	7.685	ug/L
|	Mn	55	3121.852	0.01	0.2359	0.004	1.622	ug/L
|	Co	59	192.670	0.00	0.0126	0.003	23.720	ug/L
|	Ni	60	1055.400	0.00	0.5561	0.033	6.019	ug/L
|	Cu	65	249.339	0.00	0.0595	0.006	9.907	ug/L
|	Zn	66	2417.650	0.00	1.5416	0.052	3.368	ug/L
|>	Ge	72	426025.467	426025.47				ug/L
|	As	75	-31.860	0.00	0.1184	0.022	18.288	ug/L
|	Se	77	76.000	0.00	0.1384	0.058	41.596	ug/L
|	Se	82	35.603	0.00	0.4297	0.072	16.803	ug/L
⌊	Rb	85	3024.154	0.01				mg/L
	Y	89	269377.055	-78405.13				ug/L
	Rh	103	31.000	20.67				ug/L
⌈	Mo	98	55.612	0.00	0.0338	0.004	10.835	ug/L
|	Ag	107	22.000	-0.00	0.0023	0.001	39.973	ug/L
|	Cd	114	0.125	-0.00	-0.0066	0.006	97.653	ug/L
|>	In	115	340080.887	340080.89				ug/L
|	Sn	118	178.402	0.00	0.0329	0.003	8.991	ug/L
⌊	Sb	123	73.243	0.00	0.0163	0.002	15.058	ug/L
⌈	Ba	135	35095.510	0.08	22.5420	0.647	2.872	ug/L
|	Ce	140	390.047	0.00				ug/L
⌊>	Tb	159	461450.855	461450.85				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	37.334	0.00	0.0038	0.000	13.113	ug/L
|	Tl	205	40.004	0.00	0.0116	0.001	5.835	ug/L
|	Pb	206	493.350	0.00	0.0281	0.006	20.312	ug/L
|	Pb	207	418.346	0.00	0.0339	0.004	11.980	ug/L
|	Pb	208	1930.092	0.00	0.0279	0.003	11.664	ug/L
|	U	238	1359.773	0.00	0.0418	0.003	6.061	ug/L
⌊>	Bi	209	445632.035	445632.03				ug/L

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⌈	Na	23	18766422.266	65.23	3.4630	0.052	1.510	mg/L
|	Mg	24	7569668.491	26.34	2.2127	0.052	2.329	mg/L
|	K	39	6594051.732	21.07	0.7519	0.026	3.432	mg/L
|	Ca	43	83801.457	0.29	4.6557	0.088	1.901	mg/L
|	Fe	54	84916.856	0.13	0.0701	0.006	9.164	mg/L
|	Fe	57	11030.522	0.01	0.0148	0.001	3.952	mg/L
⌊>	Sc-1	45	287511.127	287511.13				mg/L
	Cl	35	152316.677	133300.61				mg/L
	Kr	83	45.667	-15.00				mg/L
	Br	81	22877.490	14267.11				mg/L
	P	31	20234.718	6838.82				mg/L
	S	34	219252.531	31271.55				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		81.532			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.639			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.757			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.793			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102044301 WG356896-02

Sample Date/Time: Tuesday, February 22, 2011 16:11:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 47
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20136.977	0.02				ug/L
|	Be	9	8.667	0.00	-0.0186	0.011	61.334	ug/L
|	Al	27	93822.744	0.33	16.6321	2.197	13.210	ug/L
⌊>	Sc	45	274869.286	274869.29				ug/L
⌈	Ti	49	1053.494	0.00	1.9706	0.215	10.933	ug/L
|	V	51	3095.701	0.00	0.1355	0.006	4.607	ug/L
|	Cr	52	11830.785	0.01	0.7412	0.026	3.462	ug/L
|	Cr	53	1643.633	0.00	1.8620	0.167	8.968	ug/L
|	Mn	55	3191014.831	7.95	301.5377	8.118	2.692	ug/L
|	Co	59	7390.144	0.02	0.8627	0.016	1.892	ug/L
|	Ni	60	10609.078	0.03	5.9847	0.089	1.484	ug/L
|	Cu	65	1626.816	0.00	0.8219	0.027	3.240	ug/L
|	Zn	66	58337.777	0.14	53.8581	0.367	0.682	ug/L
| >	Ge	72	401698.431	401698.43				ug/L
|	As	75	-61.913	0.00	0.0811	0.073	89.656	ug/L
|	Se	77	122.001	0.00	0.9301	0.226	24.337	ug/L
|	Se	82	23.566	0.00	0.3020	0.196	64.782	ug/L
⌊	Rb	85	14030.982	0.03				mg/L
	Y	89	259466.651	-88315.53				ug/L
	Rh	103	96.001	85.67				ug/L
⌈	Mo	98	670.527	0.00	0.3223	0.011	3.527	ug/L
|	Ag	107	23.334	-0.00	0.0029	0.002	60.339	ug/L
|	Cd	114	314.992	0.00	0.3236	0.017	5.206	ug/L
| >	In	115	326039.153	326039.15				ug/L
|	Sn	118	173.468	0.00	0.0336	0.002	5.122	ug/L
⌊	Sb	123	139.366	0.00	0.0371	0.001	2.924	ug/L
⌈	Ba	135	25236.414	0.06	16.4304	0.222	1.349	ug/L
|	Ce	140	913.466	0.00				ug/L
⌊>	Tb	159	455213.399	455213.40				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	153.336	0.00	0.0225	0.001	5.231	ug/L
|	Tl	205	413.383	0.00	0.0360	0.005	13.904	ug/L
|	Pb	206	590.690	0.00	0.0482	0.008	15.802	ug/L
|	Pb	207	494.684	0.00	0.0503	0.003	5.981	ug/L
|	Pb	208	2373.137	0.00	0.0494	0.001	2.432	ug/L
|	U	238	13682.511	0.03	0.4374	0.004	0.986	ug/L
⌊>	Bi	209	442888.121	442888.12				ug/L

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⌈	Na	23	207119293.379	754.90	40.1116	1.941	4.839	mg/L
|	Mg	24	42470729.734	154.66	13.0109	0.522	4.011	mg/L
|	K	39	15211751.801	53.51	1.9167	0.075	3.927	mg/L
|	Ca	43	1121578.002	4.09	65.4236	4.259	6.511	mg/L
|	Fe	54	315780.004	0.99	0.4860	0.027	5.481	mg/L
|	Fe	57	149140.867	0.52	0.6143	0.037	6.059	mg/L
⌊>	Sc-1	45	274869.286	274869.29				mg/L
	Cl	35	1197595.204	1178579.13				mg/L
	Kr	83	50.001	-10.67				mg/L
	Br	81	15085.396	6475.02				mg/L
	P	31	19316.119	5920.22				mg/L
	S	34	1600551.681	1412570.70				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		76.876			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		83.062			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.517			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.240			
⌈	Na	23					

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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1102044301 WG356896-02
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Method 6020 - Summary Report

Sample ID: L1102044301S WG356896-08

Sample Date/Time: Tuesday, February 22, 2011 16:18:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 48
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22709.108	0.02				ug/L
|	Be	9	7365.380	0.03	29.4485	1.622	5.508	ug/L
|	Al	27	259058.623	0.88	43.9047	0.641	1.461	ug/L
⌊>	Sc	45	291378.416	291378.42				ug/L
⌈	Ti	49	1306.883	0.00	2.3377	0.182	7.768	ug/L
|	V	51	244266.373	0.58	28.4744	0.571	2.007	ug/L
|	Cr	52	215205.266	0.50	28.8762	0.433	1.501	ug/L
|	Cr	53	25428.173	0.06	29.4766	0.199	0.676	ug/L
|	Mn	55	3803563.590	9.05	343.5013	6.380	1.857	ug/L
|	Co	59	262224.398	0.62	29.5656	0.816	2.758	ug/L
|	Ni	60	64461.548	0.15	34.7999	1.086	3.121	ug/L
|	Cu	65	55746.688	0.13	29.1332	0.524	1.798	ug/L
|	Zn	66	93539.140	0.22	82.9001	0.955	1.152	ug/L
|>	Ge	72	420046.964	420046.96				ug/L
|	As	75	23025.684	0.06	24.9883	0.531	2.126	ug/L
|	Se	77	1752.154	0.00	25.4693	0.762	2.992	ug/L
|	Se	82	1978.209	0.00	23.2939	0.413	1.775	ug/L
⌊	Rb	85	15260.798	0.04				mg/L
	Y	89	270042.905	-77739.28				ug/L
	Rh	103	123.002	112.67				ug/L
⌈	Mo	98	763.388	0.00	0.3399	0.010	3.036	ug/L
|	Ag	107	104246.780	0.30	23.9326	0.261	1.092	ug/L
|	Cd	114	26650.944	0.08	25.8824	0.282	1.090	ug/L
|>	In	115	351318.475	351318.47				ug/L
|	Sn	118	180.535	0.00	0.0319	0.000	1.272	ug/L
⌊	Sb	123	92214.931	0.26	25.8233	0.500	1.935	ug/L
⌈	Ba	135	69213.974	0.14	41.0313	0.115	0.280	ug/L
|	Ce	140	1243.535	0.00				ug/L
⌊>	Tb	159	499621.484	499621.48				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	187257.718	0.39	27.5297	0.367	1.334	ug/L
|	Tl	205	464286.317	0.96	27.6095	0.989	3.580	ug/L
|	Pb	206	158126.432	0.33	28.5084	1.044	3.661	ug/L
|	Pb	207	136228.680	0.28	26.0836	0.725	2.781	ug/L
|	Pb	208	641911.575	1.32	27.6769	0.273	0.988	ug/L
|	U	238	1050791.908	2.17	30.8204	0.243	0.788	ug/L
⌊>	Bi	209	484299.934	484299.93				ug/L

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⌈	Na	23	223076992.242	765.00	40.6481	0.919	2.262	mg/L
|	Mg	24	45359155.869	155.80	13.1071	0.266	2.028	mg/L
|	K	39	16658050.124	55.38	1.9840	0.125	6.307	mg/L
|	Ca	43	1213937.919	4.17	66.7649	2.752	4.122	mg/L
|	Fe	54	350350.586	1.04	0.5116	0.017	3.269	mg/L
|	Fe	57	164788.228	0.54	0.6417	0.037	5.691	mg/L
⌊>	Sc-1	45	291378.416	291378.42				mg/L
	Cl	35	1273628.183	1254612.11				mg/L
	Kr	83	40.000	-20.67				mg/L
	Br	81	17479.274	8868.90				mg/L
	P	31	20660.318	7264.42				mg/L
	S	34	1697759.971	1509778.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.388			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.502			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.347			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.585			
⌈	Na	23					

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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

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Method 6020 - Summary Report

Sample ID: L1102044705

Sample Date/Time: Tuesday, February 22, 2011 16:24:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 49
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24329.574	0.02				ug/L
|	Be	9	9.333	0.00	-0.0177	0.026	147.882	ug/L
|	Al	27	19402.154	0.06	2.7326	0.346	12.649	ug/L
⌊>	Sc	45	299809.513	299809.51				ug/L
⌈	Ti	49	146.682	0.00	0.2071	0.039	18.704	ug/L
|	V	51	2587.081	0.00	0.0368	0.008	20.542	ug/L
|	Cr	52	10350.124	0.01	0.3544	0.007	1.957	ug/L
|	Cr	53	533.401	0.00	0.4315	0.065	14.998	ug/L
|	Mn	55	2832.763	0.01	0.1948	0.004	2.270	ug/L
|	Co	59	104.668	0.00	0.0021	0.001	69.690	ug/L
|	Ni	60	196.671	0.00	0.0923	0.003	2.737	ug/L
|	Cu	65	392.345	0.00	0.1214	0.021	17.017	ug/L
|	Zn	66	2385.975	0.00	1.3872	0.064	4.631	ug/L
|>	Ge	72	453506.051	453506.05				ug/L
|	As	75	-128.257	0.00	0.0243	0.042	171.851	ug/L
|	Se	77	58.000	0.00	-0.1811	0.112	61.922	ug/L
|	Se	82	7.649	0.00	0.1002	0.130	129.793	ug/L
⌊	Rb	85	55.334	0.00				mg/L
	Y	89	291658.161	-56124.02				ug/L
	Rh	103	9.333	-1.00				ug/L
⌈	Mo	98	26.795	0.00	0.0194	0.001	6.525	ug/L
|	Ag	107	30.667	-0.00	0.0035	0.000	6.694	ug/L
|	Cd	114	-3.257	-0.00	-0.0096	0.003	30.952	ug/L
|>	In	115	388934.605	388934.61				ug/L
|	Sn	118	144.268	0.00	0.0184	0.001	7.848	ug/L
⌊	Sb	123	65.327	0.00	0.0116	0.003	28.616	ug/L
⌈	Ba	135	124.669	0.00	0.0811	0.003	4.260	ug/L
|	Ce	140	533.401	0.00				ug/L
⌊>	Tb	159	544617.535	544617.54				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	37.000	0.00	0.0026	0.001	33.521	ug/L
|	Tl	205	83.342	0.00	0.0134	0.000	3.020	ug/L
|	Pb	206	517.685	0.00	0.0140	0.005	34.811	ug/L
|	Pb	207	455.015	0.00	0.0238	0.003	13.045	ug/L
|	Pb	208	2093.441	0.00	0.0172	0.004	24.361	ug/L
|	U	238	148.336	0.00	0.0023	0.001	30.197	ug/L
⌊>	Bi	209	547978.397	547978.40				ug/L

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⌈	Na	23	133394.870	0.38	0.0170	0.002	10.633	mg/L
|	Mg	24	43431.792	0.14	0.0082	0.001	12.297	mg/L
|	K	39	585106.206	0.08	-0.0020	0.004	208.161	mg/L
|	Ca	43	850.121	0.00	0.0350	0.002	4.367	mg/L
|	Fe	54	91863.459	0.15	0.0760	0.016	20.883	mg/L
|	Fe	57	7940.612	-0.00	0.0008	0.002	239.256	mg/L
⌊>	Sc-1	45	299809.513	299809.51				mg/L
	Cl	35	58076.852	39060.78				mg/L
	Kr	83	40.334	-20.33				mg/L
	Br	81	8591.023	-19.35				mg/L
	P	31	22368.362	8972.46				mg/L
	S	34	233177.633	45196.66				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.791			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.085			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.294			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.416			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102045001

Sample Date/Time: Tuesday, February 22, 2011 16:31:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 50
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23427.654	0.02				ug/L
|	Be	9	6.000	0.00	-0.0314	0.013	42.392	ug/L
|	Al	27	62075.684	0.21	10.2025	0.938	9.190	ug/L
|>	Sc	45	290330.251	290330.25				ug/L
⌈	Ti	49	496.729	0.00	0.8427	0.191	22.659	ug/L
|	V	51	3743.642	0.00	0.1853	0.011	5.967	ug/L
|	Cr	52	13360.386	0.01	0.8363	0.020	2.427	ug/L
|	Cr	53	1336.891	0.00	1.3788	0.186	13.454	ug/L
|	Mn	55	426801.756	0.99	37.6538	0.847	2.250	ug/L
|	Co	59	1037.731	0.00	0.1056	0.006	5.624	ug/L
|	Ni	60	8624.807	0.02	4.5494	0.171	3.751	ug/L
|	Cu	65	2488.001	0.01	1.2051	0.026	2.171	ug/L
|	Zn	66	33797.710	0.08	28.8964	0.551	1.905	ug/L
|>	Ge	72	429707.697	429707.70				ug/L
|	As	75	-19.295	0.00	0.1324	0.047	35.287	ug/L
|	Se	77	90.000	0.00	0.3355	0.008	2.330	ug/L
|	Se	82	20.931	0.00	0.2592	0.165	63.710	ug/L
⌊	Rb	85	5078.341	0.01				mg/L
	Y	89	274758.363	-73023.82				ug/L
	Rh	103	50.001	39.67				ug/L
⌈	Mo	98	723.641	0.00	0.3120	0.012	3.744	ug/L
|	Ag	107	31.667	-0.00	0.0041	0.001	19.240	ug/L
|	Cd	114	56.241	0.00	0.0460	0.004	9.674	ug/L
|>	In	115	363600.331	363600.33				ug/L
|	Sn	118	199.869	0.00	0.0353	0.001	3.123	ug/L
⌊	Sb	123	183.204	0.00	0.0447	0.004	7.919	ug/L
⌈	Ba	135	29546.896	0.06	17.1988	0.172	1.001	ug/L
|	Ce	140	230.026	0.00				ug/L
|>	Tb	159	509139.240	509139.24				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	90.335	0.00	0.0105	0.001	13.501	ug/L
|	Tl	205	170.018	0.00	0.0187	0.002	10.183	ug/L
|	Pb	206	1116.740	0.00	0.1242	0.012	9.832	ug/L
|	Pb	207	915.384	0.00	0.1145	0.005	4.063	ug/L
|	Pb	208	4419.434	0.01	0.1198	0.004	3.034	ug/L
|	U	238	1615.147	0.00	0.0438	0.001	1.889	ug/L
|>	Bi	209	506397.052	506397.05				ug/L

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⌈	Na	23	58393780.555	201.34	10.6959	0.396	3.705	mg/L
|	Mg	24	14745272.053	50.87	4.2769	0.220	5.134	mg/L
|	K	39	8732006.168	28.24	1.0093	0.042	4.120	mg/L
|	Ca	43	371394.194	1.28	20.4844	0.617	3.013	mg/L
|	Fe	54	186997.705	0.48	0.2404	0.024	9.782	mg/L
|	Fe	57	65654.964	0.20	0.2384	0.020	8.393	mg/L
⌊>	Sc-1	45	290330.251	290330.25				mg/L
	Cl	35	512796.515	493780.45				mg/L
	Kr	83	46.334	-14.33				mg/L
	Br	81	13125.280	4514.90				mg/L
	P	31	22762.552	9366.65				mg/L
	S	34	608615.239	420634.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		82.236			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
| >	In	115		92.631			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.240			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.037			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102045001
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Method 6020 - Summary Report

Sample ID: L1102045002 WG356896-03

Sample Date/Time: Tuesday, February 22, 2011 16:38:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 51
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21323.132	0.02				ug/L
|	Be	9	17.333	0.00	0.0208	0.016	79.230	ug/L
|	Al	27	436631.995	1.64	81.6824	4.159	5.091	ug/L
⌊>	Sc	45	265308.859	265308.86				ug/L
⌈	Ti	49	1410.245	0.00	2.5731	0.677	26.320	ug/L
|	V	51	35151.821	0.08	3.9558	0.086	2.176	ug/L
|	Cr	52	15615.673	0.02	1.2261	0.009	0.717	ug/L
|	Cr	53	2847.358	0.01	3.2276	0.243	7.539	ug/L
|	Mn	55	733301.991	1.77	67.2816	1.105	1.642	ug/L
|	Co	59	6748.011	0.02	0.7650	0.023	3.054	ug/L
|	Ni	60	7059.896	0.02	3.8701	0.047	1.226	ug/L
|	Cu	65	97893.828	0.24	52.0631	0.617	1.186	ug/L
|	Zn	66	155844.052	0.38	140.7611	2.498	1.775	ug/L
| >	Ge	72	413293.766	413293.77				ug/L
|	As	75	284.634	0.00	0.4640	0.053	11.518	ug/L
|	Se	77	165.335	0.00	1.5458	0.239	15.482	ug/L
|	Se	82	32.937	0.00	0.4104	0.035	8.617	ug/L
⌊	Rb	85	5766.053	0.01				mg/L
	Y	89	271226.901	-76555.28				ug/L
	Rh	103	56.001	45.67				ug/L
⌈	Mo	98	1366.048	0.00	0.6220	0.016	2.587	ug/L
|	Ag	107	295.341	0.00	0.0674	0.003	4.159	ug/L
|	Cd	114	1761.142	0.01	1.7648	0.019	1.105	ug/L
| >	In	115	339242.875	339242.87				ug/L
|	Sn	118	277.604	0.00	0.0606	0.001	1.224	ug/L
⌊	Sb	123	987.049	0.00	0.2816	0.015	5.410	ug/L
⌈	Ba	135	32319.801	0.07	20.5569	0.186	0.903	ug/L
|	Ce	140	4167.953	0.01				ug/L
⌊>	Tb	159	465809.483	465809.48				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	438.014	0.00	0.0670	0.004	5.725	ug/L
|	Tl	205	1016.821	0.00	0.0739	0.009	12.041	ug/L
|	Pb	206	33849.539	0.07	6.5018	0.147	2.267	ug/L
|	Pb	207	28884.615	0.06	5.9030	0.107	1.817	ug/L
|	Pb	208	135588.808	0.30	6.2349	0.170	2.726	ug/L
|	U	238	6316.391	0.01	0.1976	0.004	2.250	ug/L
⌊>	Bi	209	450570.259	450570.26				ug/L

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⌈	Na	23	299277898.739	1130.18	60.0536	5.741	9.560	mg/L
|	Mg	24	16794824.689	63.41	5.3322	0.442	8.296	mg/L
|	K	39	9135636.895	32.58	1.1651	0.054	4.644	mg/L
|	Ca	43	419751.646	1.58	25.3334	1.266	4.998	mg/L
|	Fe	54	399833.211	1.35	0.6597	0.033	5.060	mg/L
|	Fe	57	151097.179	0.54	0.6466	0.062	9.536	mg/L
⌊>	Sc-1	45	265308.859	265308.86				mg/L
	Cl	35	1855714.594	1836698.52				mg/L
	Kr	83	45.667	-15.00				mg/L
	Br	81	15122.761	6512.39				mg/L
	P	31	20764.942	7369.04				mg/L
	S	34	570624.146	382643.17				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		79.095			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.426			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.624			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.788			
⌈	Na	23					

Sample ID: L1102045002 WG356896-03
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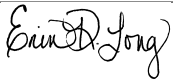

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

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Method 6020 - Summary Report

Sample ID: L1102045002DUP WG356896-09

Sample Date/Time: Tuesday, February 22, 2011 16:45:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 52
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21556.892	0.02				ug/L
|	Be	9	4.667	0.00	-0.0356	0.005	13.493	ug/L
|	Al	27	233989.764	0.84	41.6636	8.754	21.012	ug/L
|>	Sc	45	278683.677	278683.68				ug/L
⌈	Ti	49	1870.481	0.00	3.2519	3.267	100.477	ug/L
|	V	51	35456.212	0.08	3.8471	0.087	2.267	ug/L
|	Cr	52	14989.043	0.02	1.0655	0.044	4.093	ug/L
|	Cr	53	2620.605	0.01	2.8521	0.060	2.093	ug/L
|	Mn	55	738652.390	1.73	65.4379	0.573	0.876	ug/L
|	Co	59	6439.805	0.01	0.7042	0.009	1.249	ug/L
|	Ni	60	7160.306	0.02	3.7881	0.114	3.009	ug/L
|	Cu	65	104147.370	0.24	53.4837	0.338	0.632	ug/L
|	Zn	66	159757.906	0.37	139.2902	1.746	1.254	ug/L
|>	Ge	72	428060.998	428061.00				ug/L
|	As	75	135.298	0.00	0.2951	0.021	7.211	ug/L
|	Se	77	165.335	0.00	1.4591	0.099	6.765	ug/L
|	Se	82	32.656	0.00	0.3919	0.111	28.314	ug/L
⌊	Rb	85	5530.585	0.01				mg/L
	Y	89	276881.799	-70900.38				ug/L
	Rh	103	61.001	50.67				ug/L
⌈	Mo	98	1412.575	0.00	0.6273	0.004	0.582	ug/L
|	Ag	107	2965.137	0.01	0.6849	0.009	1.245	ug/L
|	Cd	114	830.350	0.00	0.8068	0.074	9.154	ug/L
|>	In	115	347757.307	347757.31				ug/L
|	Sn	118	339.072	0.00	0.0755	0.004	4.824	ug/L
⌊	Sb	123	993.803	0.00	0.2762	0.012	4.448	ug/L
⌈	Ba	135	33509.430	0.07	20.2859	0.125	0.615	ug/L
|	Ce	140	1620.293	0.00				ug/L
|>	Tb	159	489347.027	489347.03				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	139.669	0.00	0.0193	0.001	6.135	ug/L
|	Tl	205	353.375	0.00	0.0309	0.002	6.499	ug/L
|	Pb	206	14784.411	0.03	2.7202	0.041	1.518	ug/L
|	Pb	207	12724.573	0.03	2.4960	0.120	4.803	ug/L
|	Pb	208	58371.609	0.12	2.5714	0.083	3.213	ug/L
|	U	238	4878.240	0.01	0.1479	0.004	2.802	ug/L
|>	Bi	209	463497.072	463497.07				ug/L

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⌈	Na	23	294085970.522	1057.32	56.1819	4.702	8.370	mg/L
|	Mg	24	17348666.063	62.34	5.2418	0.298	5.689	mg/L
|	K	39	9366874.643	31.78	1.1363	0.062	5.483	mg/L
|	Ca	43	433913.979	1.56	24.9495	1.749	7.009	mg/L
|	Fe	54	363303.857	1.14	0.5613	0.045	7.995	mg/L
|	Fe	57	141989.437	0.48	0.5750	0.040	6.998	mg/L
⌊>	Sc-1	45	278683.677	278683.68				mg/L
	Cl	35	1688706.580	1669690.51				mg/L
	Kr	83	39.667	-21.00				mg/L
	Br	81	14839.672	6229.30				mg/L
	P	31	21486.539	8090.64				mg/L
	S	34	584363.258	396382.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		81.921			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
| >	In	115		88.595			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.304			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.393			
⌈	Na	23					

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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

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Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 22, 2011 16:52:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19753.176	0.01				ug/L
|	Be	9	13824.897	0.05	56.4534	5.061	8.965	ug/L
|	Al	27	291993.070	1.02	50.6470	3.743	7.391	ug/L
⌊>	Sc	45	285695.166	285695.17				ug/L
⌈	Ti	49	59703.668	0.13	101.8770	1.823	1.790	ug/L
|	V	51	466790.490	1.04	51.1807	0.185	0.362	ug/L
|	Cr	52	390042.339	0.85	49.7153	0.892	1.793	ug/L
|	Cr	53	46512.571	0.10	50.6172	0.917	1.812	ug/L
|	Mn	55	594330.353	1.33	50.2590	0.467	0.929	ug/L
|	Co	59	476059.240	1.06	50.3128	0.415	0.825	ug/L
|	Ni	60	100523.574	0.22	50.8725	0.884	1.738	ug/L
|	Cu	65	103304.902	0.23	50.6459	0.744	1.469	ug/L
|	Zn	66	61661.834	0.14	50.9638	0.263	0.516	ug/L
| >	Ge	72	448360.978	448360.98				ug/L
|	As	75	47429.121	0.11	48.0731	0.423	0.879	ug/L
|	Se	77	3548.630	0.01	49.2429	0.401	0.815	ug/L
|	Se	82	4399.534	0.01	48.5018	1.116	2.300	ug/L
⌊	Rb	85	1869.860	0.00				mg/L
	Y	89	292801.248	-54980.93				ug/L
	Rh	103	18.334	8.00				ug/L
⌈	Mo	98	229748.282	0.63	95.7097	1.713	1.790	ug/L
|	Ag	107	228859.496	0.63	50.5191	0.814	1.612	ug/L
|	Cd	114	51467.566	0.14	48.0584	1.997	4.156	ug/L
| >	In	115	365549.310	365549.31				ug/L
|	Sn	118	191058.223	0.52	49.3239	0.813	1.649	ug/L
⌊	Sb	123	182694.726	0.50	49.1562	0.613	1.247	ug/L
⌈	Ba	135	78180.879	0.16	46.0647	0.498	1.082	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	502657.979	502657.98				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	345144.574	0.70	50.1765	0.866	1.725	ug/L
|	Tl	205	863453.285	1.76	50.7459	1.890	3.724	ug/L
|	Pb	206	283747.512	0.58	50.6094	0.071	0.141	ug/L
|	Pb	207	263542.143	0.54	49.9523	0.630	1.261	ug/L
|	Pb	208	1175621.253	2.40	50.1798	0.240	0.479	ug/L
|	U	238	1841969.129	3.76	53.4265	1.650	3.089	ug/L
⌊>	Bi	209	489635.595	489635.59				ug/L

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Na	23	27631643.456	96.82	5.1419	0.319	6.198	mg/L	
Mg	24	17273210.835	60.56	5.0924	0.329	6.463	mg/L	
K	39	41572232.504	143.73	5.1566	0.128	2.483	mg/L	
Ca	43	90251.381	0.32	5.0491	0.209	4.135	mg/L	
Fe	54	2859494.814	9.86	4.7980	0.197	4.110	mg/L	
Fe	57	1211445.769	4.22	5.0095	0.265	5.295	mg/L	
> Sc-1	45	285695.166	285695.17				mg/L	
Cl	35	20354.695	1338.63				mg/L	
Kr	83	58.001	-2.67				mg/L	
Br	81	7133.881	-1476.50				mg/L	
P	31	11128.901	-2267.00				mg/L	
S	34	204027.406	16046.43				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.361				
Cr	52	99.431				
Cr	53					
Mn	55	100.518				
Co	59	100.626				
Ni	60	101.745				
Cu	65	101.292				
Zn	66	101.928				
> Ge	72		85.806			
As	75	96.146				
Se	77					
Se	82	97.004				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.038				
Cd	114	96.117				
> In	115		93.128			
Sn	118					
Sb	123	98.312				
Ba	135	92.129				
Ce	140					
> Tb	159		99.951			
Ho	165					
Tl	203	100.353				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.360				
U	238	106.853				
> Bi	209		98.660			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 16:54:14

Approved: February 23, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
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Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 22, 2011 16:59:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19953.283	0.01				ug/L
|	Be	9	3.333	0.00	-0.0414	0.005	12.134	ug/L
|	Al	27	3650.687	0.00	0.1198	0.121	100.638	ug/L
⌊>	Sc	45	284784.503	284784.50				ug/L
⌈	Ti	49	70.007	0.00	0.0782	0.027	34.791	ug/L
|	V	51	2186.493	-0.00	-0.0059	0.007	110.571	ug/L
|	Cr	52	7262.377	-0.00	-0.0388	0.012	29.816	ug/L
|	Cr	53	273.364	0.00	0.1522	0.038	24.817	ug/L
|	Mn	55	335.009	0.00	-0.0140	0.001	6.664	ug/L
|	Co	59	49.334	-0.00	-0.0037	0.000	12.066	ug/L
|	Ni	60	52.001	0.00	0.0200	0.002	10.049	ug/L
|	Cu	65	121.335	0.00	-0.0101	0.003	29.140	ug/L
|	Zn	66	524.019	0.00	-0.1505	0.016	10.933	ug/L
|>	Ge	72	451720.438	451720.44				ug/L
|	As	75	-136.230	0.00	0.0156	0.012	74.323	ug/L
|	Se	77	57.334	0.00	-0.1840	0.371	201.362	ug/L
|	Se	82	-1.441	0.00	0.0014	0.066	4757.279	ug/L
⌊	Rb	85	18.667	-0.00				mg/L
	Y	89	291431.161	-56351.02				ug/L
	Rh	103	5.333	-5.00				ug/L
⌈	Mo	98	118.760	0.00	0.0583	0.010	16.501	ug/L
|	Ag	107	23.334	-0.00	0.0022	0.001	23.331	ug/L
|	Cd	114	-5.851	-0.00	-0.0122	0.004	29.536	ug/L
|>	In	115	366329.811	366329.81				ug/L
|	Sn	118	293.471	0.00	0.0590	0.002	4.109	ug/L
⌊	Sb	123	43.369	-0.00	0.0067	0.002	27.233	ug/L
⌈	Ba	135	22.000	0.00	0.0261	0.002	7.560	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	508191.215	508191.22				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	30.334	0.00	0.0021	0.000	21.556	ug/L
|	Tl	205	26.669	0.00	0.0105	0.001	8.135	ug/L
|	Pb	206	396.012	0.00	0.0003	0.007	2187.420	ug/L
|	Pb	207	354.010	0.00	0.0122	0.004	35.339	ug/L
|	Pb	208	1603.400	0.00	0.0041	0.004	89.739	ug/L
|	U	238	97.668	0.00	0.0012	0.000	25.182	ug/L
⌊>	Bi	209	502219.142	502219.14				ug/L

Sample ID: QC Std 7
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⌈	Na	23	22420.680	0.01	-0.0025	0.000	6.987	mg/L
|	Mg	24	723.432	0.00	-0.0039	0.000	0.688	mg/L
|	K	39	557441.518	0.08	-0.0020	0.002	119.474	mg/L
|	Ca	43	196.688	-0.00	0.0008	0.004	452.855	mg/L
|	Fe	54	42178.983	-0.01	-0.0015	0.005	348.381	mg/L
|	Fe	57	6556.140	-0.00	-0.0034	0.001	15.063	mg/L
⌊>	Sc-1	45	284784.503	284784.50				mg/L
	Cl	35	19486.972	470.90				mg/L
	Kr	83	50.667	-10.00				mg/L
	Br	81	7080.506	-1529.87				mg/L
	P	31	11119.689	-2276.21				mg/L
	S	34	219800.737	31819.76				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.449			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.326			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.051			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.195			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 17:01:28

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 17:01:28

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: PBW 73 WG357168-02

Sample Date/Time: Tuesday, February 22, 2011 17:06:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 53
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20086.823	0.01				ug/L
|	Be	9	10.000	0.00	-0.0143	0.007	51.897	ug/L
|	Al	27	15645.568	0.05	2.2293	0.117	5.264	ug/L
⌊>	Sc	45	284713.838	284713.84				ug/L
⌈	Ti	49	76.675	0.00	0.0946	0.045	47.759	ug/L
|	V	51	2217.093	0.00	0.0058	0.002	34.867	ug/L
|	Cr	52	8714.549	0.00	0.1879	0.019	10.243	ug/L
|	Cr	53	446.721	0.00	0.3566	0.029	8.261	ug/L
|	Mn	55	1156.078	0.00	0.0583	0.002	2.631	ug/L
|	Co	59	75.334	0.00	-0.0007	0.001	204.155	ug/L
|	Ni	60	94.668	0.00	0.0431	0.004	10.431	ug/L
|	Cu	65	198.671	0.00	0.0309	0.010	33.869	ug/L
|	Zn	66	2295.620	0.00	1.3860	0.037	2.649	ug/L
| >	Ge	72	436502.866	436502.87				ug/L
|	As	75	-159.489	-0.00	-0.0132	0.035	263.186	ug/L
|	Se	77	57.334	0.00	-0.1611	0.157	97.653	ug/L
|	Se	82	8.954	0.00	0.1190	0.144	120.815	ug/L
⌊	Rb	85	41.667	0.00				mg/L
	Y	89	297012.601	-50769.58				ug/L
	Rh	103	12.333	2.00				ug/L
⌈	Mo	98	54.384	0.00	0.0317	0.003	9.917	ug/L
|	Ag	107	24.667	-0.00	0.0026	0.001	37.510	ug/L
|	Cd	114	1.192	-0.00	-0.0056	0.003	57.159	ug/L
| >	In	115	364485.286	364485.29				ug/L
|	Sn	118	175.868	0.00	0.0289	0.004	13.891	ug/L
⌊	Sb	123	44.618	-0.00	0.0071	0.001	12.277	ug/L
⌈	Ba	135	77.001	0.00	0.0591	0.003	4.981	ug/L
|	Ce	140	43.338	0.00				ug/L
⌊>	Tb	159	498901.223	498901.22				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	12.333	-0.00	-0.0004	0.001	150.554	ug/L
|	Tl	205	20.002	0.00	0.0102	0.001	10.037	ug/L
|	Pb	206	515.685	0.00	0.0219	0.004	18.529	ug/L
|	Pb	207	410.013	0.00	0.0232	0.003	14.065	ug/L
|	Pb	208	2000.766	0.00	0.0213	0.002	8.722	ug/L
|	U	238	49.001	0.00	-0.0001	0.000	33.126	ug/L
⌊>	Bi	209	497573.884	497573.88				ug/L

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⌈	Na	23	42658.416	0.08	0.0013	0.000	25.848	mg/L
|	Mg	24	8707.996	0.03	-0.0015	0.000	5.443	mg/L
|	K	39	568340.517	0.12	-0.0006	0.001	190.861	mg/L
|	Ca	43	376.712	0.00	0.0109	0.004	37.138	mg/L
|	Fe	54	87607.368	0.15	0.0760	0.008	11.104	mg/L
|	Fe	57	6989.809	-0.00	-0.0016	0.001	37.774	mg/L
⌊>	Sc-1	45	284713.838	284713.84				mg/L
	Cl	35	30057.113	11041.04				mg/L
	Kr	83	43.667	-17.00				mg/L
	Br	81	7731.654	-878.72				mg/L
	P	31	20327.337	6931.43				mg/L
	S	34	232595.958	44614.98				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		83.537			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
\>	In	115		92.856			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.204			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.259			
⌈	Na	23					

Sample ID: PBW 73 WG357168-02
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 73 WG357168-02
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Method 6020 - Summary Report

Sample ID: LCSW 73 ~~WG357468-03~~ WG357168-03

Sample Date/Time: Tuesday, February 22, 2011 17:12:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 54
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20521.268	0.01				ug/L
|	Be	9	6814.321	0.02	26.7226	0.765	2.864	ug/L
|	Al	27	159800.354	0.53	26.4329	0.869	3.287	ug/L
⌊>	Sc	45	296622.346	296622.35				ug/L
⌈	Ti	49	86.676	0.00	0.1094	0.027	24.668	ug/L
|	V	51	242255.252	0.54	26.6941	0.081	0.304	ug/L
|	Cr	52	215084.082	0.47	27.2366	0.523	1.920	ug/L
|	Cr	53	24839.980	0.06	27.2170	0.946	3.477	ug/L
|	Mn	55	319149.818	0.72	27.2203	0.646	2.375	ug/L
|	Co	59	252271.480	0.57	26.9098	0.545	2.027	ug/L
|	Ni	60	53543.503	0.12	27.3490	0.353	1.292	ug/L
|	Cu	65	55583.613	0.12	27.4695	0.155	0.565	ug/L
|	Zn	66	31603.513	0.07	26.0816	0.226	0.867	ug/L
|>	Ge	72	444210.951	444210.95				ug/L
|	As	75	22477.935	0.05	23.0749	0.544	2.359	ug/L
|	Se	77	1636.134	0.00	22.3915	1.973	8.813	ug/L
|	Se	82	2012.558	0.00	22.4060	0.834	3.720	ug/L
⌊	Rb	85	30.000	0.00				mg/L
	Y	89	292355.620	-55426.56				ug/L
	Rh	103	18.334	8.00				ug/L
⌈	Mo	98	37.982	0.00	0.0246	0.001	4.586	ug/L
|	Ag	107	110334.182	0.30	24.1313	0.452	1.872	ug/L
|	Cd	114	26987.457	0.07	24.9609	0.219	0.878	ug/L
|>	In	115	368918.536	368918.54				ug/L
|	Sn	118	128.534	0.00	0.0163	0.002	11.943	ug/L
⌊	Sb	123	90571.783	0.25	24.1447	0.321	1.328	ug/L
⌈	Ba	135	40917.283	0.08	23.8754	0.087	0.364	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	507685.130	507685.13				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	184078.018	0.37	26.5111	0.571	2.153	ug/L
|	Tl	205	441523.571	0.89	25.7087	0.375	1.460	ug/L
|	Pb	206	157198.841	0.32	27.7460	0.554	1.997	ug/L
|	Pb	207	135332.264	0.27	25.3847	0.408	1.609	ug/L
|	Pb	208	625075.010	1.26	26.3995	0.297	1.126	ug/L
|	U	238	966306.664	1.96	27.7692	0.794	2.860	ug/L
⌊>	Bi	209	494347.106	494347.11				ug/L

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Na	23	52784.209	0.11	0.0028	0.000	14.858	mg/L
Mg	24	4711.582	0.01	-0.0027	0.000	4.162	mg/L
K	39	552194.457	-0.02	-0.0054	0.003	58.533	mg/L
Ca	43	330.038	0.00	0.0075	0.001	18.890	mg/L
Fe	54	87766.664	0.13	0.0704	0.008	10.730	mg/L
Fe	57	7106.569	-0.00	-0.0022	0.002	68.750	mg/L
> Sc-1	45	296622.346	296622.35				mg/L
Cl	35	20174.998	1158.93				mg/L
Kr	83	39.000	-21.67				mg/L
Br	81	7520.169	-1090.21				mg/L
P	31	20708.148	7312.24				mg/L
S	34	216734.964	28753.99				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		85.012			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		93.986			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.950			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.609			
Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 73 ~~WG357468-03~~ WG357168-03
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Method 6020 - Summary Report

Sample ID: L1102051701

Sample Date/Time: Tuesday, February 22, 2011 17:19:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 55
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27237.134	0.00				ug/L
|	Be	9	712.025	0.00	1.7722	0.053	2.981	ug/L
|	Al	27	110564364.454	243.79	12188.0343	555.455	4.557	ug/L
⌊>	Sc	45	453789.914	453789.91				ug/L
⌈	Ti	49	241293.656	0.52	398.0461	5.995	1.506	ug/L
|	V	51	474060.184	1.02	50.2311	0.503	1.001	ug/L
|	Cr	52	432964.457	0.92	53.3947	0.314	0.588	ug/L
|	Cr	53	49081.830	0.11	51.6062	1.183	2.293	ug/L
|	Mn	55	13725847.065	29.58	1122.4984	11.280	1.005	ug/L
|	Co	59	355654.534	0.77	36.3195	0.397	1.093	ug/L
|	Ni	60	145369.507	0.31	71.1093	0.884	1.243	ug/L
|	Cu	65	856119.375	1.85	406.0782	3.766	0.927	ug/L
|	Zn	66	467932.784	1.01	377.5168	5.220	1.383	ug/L
|>	Ge	72	463955.210	463955.21				ug/L
|	As	75	18461.612	0.04	18.1783	0.117	0.644	ug/L
|	Se	77	306.005	0.00	3.1917	0.287	8.982	ug/L
|	Se	82	158.972	0.00	1.7074	0.214	12.545	ug/L
⌊	Rb	85	208211.959	0.45				mg/L
	Y	89	514720.847	166938.66				ug/L
	Rh	103	284.340	274.01				ug/L
⌈	Mo	98	29408.541	0.08	12.6706	0.130	1.028	ug/L
|	Ag	107	9268.386	0.03	2.1121	0.043	2.037	ug/L
|	Cd	114	1691.249	0.00	1.6260	0.084	5.139	ug/L
|>	In	115	353664.828	353664.83				ug/L
|	Sn	118	13263.857	0.04	3.5244	0.066	1.864	ug/L
⌊	Sb	123	8362.643	0.02	2.3210	0.027	1.168	ug/L
⌈	Ba	135	13926569.928	26.62	7880.0853	241.256	3.062	ug/L
|	Ce	140	1246303.073	2.38				ug/L
⌊>	Tb	159	523383.560	523383.56				ug/L
⌈	Ho	165	19080.116	0.04				ug/L
|	Tl	203	1897.866	0.00	0.2948	0.008	2.571	ug/L
|	Tl	205	4628.201	0.01	0.3016	0.008	2.683	ug/L
|	Pb	206	2064400.925	4.54	396.7986	8.191	2.064	ug/L
|	Pb	207	1760344.261	3.87	359.3995	5.251	1.461	ug/L
|	Pb	208	8056042.441	17.70	370.4798	6.687	1.805	ug/L
|	U	238	77831.156	0.17	2.4286	0.048	1.995	ug/L
⌊>	Bi	209	454990.117	454990.12				ug/L

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⌈	Na	23	214784642.366	473.46	25.1561	0.613	2.438	mg/L
|	Mg	24	19598740.968	43.23	3.6342	0.202	5.545	mg/L
|	K	39	70162453.574	152.91	5.4861	0.400	7.296	mg/L
|	Ca	43	741598.931	1.63	26.1491	0.634	2.425	mg/L
|	Fe	54	34592408.004	76.15	37.0280	2.161	5.837	mg/L
|	Fe	57	14057239.527	30.97	36.7619	1.059	2.881	mg/L
⌊>	Sc-1	45	453789.914	453789.91				mg/L
	Cl	35	1293879.552	1274863.48				mg/L
	Kr	83	80.334	19.67				mg/L
	Br	81	37970.020	29359.64				mg/L
	P	31	288156.124	274760.22				mg/L
	S	34	543953.165	355972.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.791			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.100			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.072			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.679			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Cu 65 Upper, S, EEE	Cu	65	
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Pb 206 Upper, S, EEE	Pb	206	
Pb 208 Upper, S, EEE	Pb	208	

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102053301

Sample Date/Time: Tuesday, February 22, 2011 17:26:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 56
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20939.043	0.01				ug/L
|	Be	9	10.000	0.00	-0.0160	0.021	129.268	ug/L
|	Al	27	237404.910	0.78	39.0337	2.952	7.562	ug/L
⌊>	Sc	45	299837.630	299837.63				ug/L
⌈	Ti	49	2033.745	0.00	3.4924	0.307	8.790	ug/L
|	V	51	3805.381	0.00	0.1815	0.060	33.266	ug/L
|	Cr	52	17402.309	0.02	1.3292	0.010	0.766	ug/L
|	Cr	53	6696.247	0.01	7.2998	0.160	2.198	ug/L
|	Mn	55	70716.048	0.16	6.0557	0.069	1.143	ug/L
|	Co	59	1435.451	0.00	0.1457	0.003	1.929	ug/L
|	Ni	60	2161.590	0.00	1.1078	0.062	5.562	ug/L
|	Cu	65	2179.927	0.00	1.0206	0.038	3.701	ug/L
|	Zn	66	16402.277	0.04	13.3880	0.033	0.247	ug/L
| >	Ge	72	439979.718	439979.72				ug/L
|	As	75	801.664	0.00	0.9783	0.114	11.693	ug/L
|	Se	77	377.340	0.00	4.4522	0.154	3.463	ug/L
|	Se	82	285.237	0.00	3.2258	0.351	10.885	ug/L
⌊	Rb	85	7736.069	0.02				mg/L
	Y	89	294391.611	-53390.57				ug/L
	Rh	103	99.335	89.00				ug/L
⌈	Mo	98	410.108	0.00	0.1909	0.014	7.214	ug/L
|	Ag	107	31.667	-0.00	0.0045	0.000	7.037	ug/L
|	Cd	114	73.319	0.00	0.0667	0.019	29.015	ug/L
| >	In	115	343718.659	343718.66				ug/L
|	Sn	118	920.576	0.00	0.2364	0.006	2.555	ug/L
⌊	Sb	123	459.796	0.00	0.1269	0.010	7.705	ug/L
⌈	Ba	135	52982.254	0.11	32.8219	0.244	0.744	ug/L
|	Ce	140	2393.859	0.00				ug/L
⌊>	Tb	159	478192.868	478192.87				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	80.001	0.00	0.0110	0.001	12.186	ug/L
|	Tl	205	200.022	0.00	0.0224	0.004	19.219	ug/L
|	Pb	206	17447.078	0.04	3.4403	0.045	1.312	ug/L
|	Pb	207	14824.485	0.03	3.1138	0.018	0.571	ug/L
|	Pb	208	68836.262	0.16	3.2484	0.056	1.718	ug/L
|	U	238	987.059	0.00	0.0307	0.001	2.858	ug/L
⌊>	Bi	209	434785.354	434785.35				ug/L

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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	44633276.574	148.85	12.5223	0.118	0.939	mg/L
|	K	39	7113693.811	21.85	0.7798	0.006	0.770	mg/L
|	Ca	43	144008.935	0.48	7.6772	0.113	1.477	mg/L
|	Fe	54	365268.012	1.06	0.5188	0.020	3.906	mg/L
|	Fe	57	129443.721	0.40	0.4818	0.010	2.002	mg/L
⌊>	Sc-1	45	299837.630	299837.63				mg/L
	Cl	35	5071476.127	5052460.06				mg/L
	Kr	83	50.334	-10.33				mg/L
	Br	81	177310.478	168700.10				mg/L
	P	31	160715.464	147319.56				mg/L
	S	34	351185.576	163204.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.202			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.566			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.086			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.608			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102053302 WG357168-01

Sample Date/Time: Tuesday, February 22, 2011 17:33:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 57
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15846.055	-0.00				ug/L
|	Be	9	13.333	0.00	-0.0001	0.014	11489.604	ug/L
|	Al	27	95438.410	0.33	16.2442	0.973	5.990	ug/L
⌊>	Sc	45	284493.976	284493.98				ug/L
⌈	Ti	49	1243.539	0.00	2.2298	0.583	26.134	ug/L
|	V	51	2654.642	0.00	0.0677	0.039	57.124	ug/L
|	Cr	52	16340.171	0.02	1.2975	0.021	1.588	ug/L
|	Cr	53	6355.990	0.01	7.2811	0.305	4.194	ug/L
|	Mn	55	47825.915	0.11	4.2902	0.030	0.705	ug/L
|	Co	59	844.711	0.00	0.0867	0.005	5.350	ug/L
|	Ni	60	1903.200	0.00	1.0249	0.038	3.743	ug/L
|	Cu	65	1010.394	0.00	0.4616	0.010	2.125	ug/L
|	Zn	66	4473.712	0.01	3.4176	0.041	1.206	ug/L
|>	Ge	72	418865.063	418865.06				ug/L
|	As	75	1111.621	0.00	1.3550	0.115	8.510	ug/L
|	Se	77	315.338	0.00	3.7861	0.362	9.552	ug/L
|	Se	82	413.505	0.00	4.8965	0.311	6.352	ug/L
⌊	Rb	85	7204.667	0.02				mg/L
	Y	89	280991.789	-66790.39				ug/L
	Rh	103	91.335	81.00				ug/L
⌈	Mo	98	380.477	0.00	0.1876	0.014	7.232	ug/L
|	Ag	107	48.334	0.00	0.0091	0.002	21.282	ug/L
|	Cd	114	4.412	0.00	-0.0022	0.014	631.627	ug/L
|>	In	115	324527.093	324527.09				ug/L
|	Sn	118	261.203	0.00	0.0594	0.005	7.948	ug/L
⌊	Sb	123	388.044	0.00	0.1128	0.006	5.331	ug/L
⌈	Ba	135	49224.054	0.11	32.6446	0.275	0.841	ug/L
|	Ce	140	933.471	0.00				ug/L
⌊>	Tb	159	446627.160	446627.16				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	113.002	0.00	0.0173	0.002	11.308	ug/L
|	Tl	205	223.358	0.00	0.0245	0.001	2.701	ug/L
|	Pb	206	529.353	0.00	0.0433	0.003	7.032	ug/L
|	Pb	207	420.680	0.00	0.0412	0.008	18.379	ug/L
|	Pb	208	1973.762	0.00	0.0372	0.003	8.380	ug/L
|	U	238	816.708	0.00	0.0265	0.001	4.611	ug/L
⌊>	Bi	209	413466.757	413466.76				ug/L

Sample ID: L1102053302 WG357168-01
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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	40851460.537	143.53	12.0748	0.442	3.665	mg/L
|	K	39	6837199.185	22.16	0.7910	0.021	2.610	mg/L
|	Ca	43	135323.442	0.48	7.6051	0.224	2.947	mg/L
|	Fe	54	157079.184	0.39	0.1949	0.007	3.362	mg/L
|	Fe	57	42176.524	0.12	0.1452	0.004	2.814	mg/L
⌊>	Sc-1	45	284493.976	284493.98				mg/L
	Cl	35	4725260.747	4706244.68				mg/L
	Kr	83	58.667	-2.00				mg/L
	Br	81	257226.145	248615.77				mg/L
	P	31	144257.792	130861.89				mg/L
	S	34	347331.091	159350.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.161			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		82.677			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.809			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		83.312			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102053302S WG357168-04

Sample Date/Time: Tuesday, February 22, 2011 17:40:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 58
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16981.349	0.00				ug/L
|	Be	9	6271.301	0.02	25.6437	0.165	0.644	ug/L
|	Al	27	165660.956	0.57	28.6362	0.796	2.778	ug/L
⌊>	Sc	45	284235.847	284235.85				ug/L
⌈	Ti	49	466.724	0.00	0.8147	0.051	6.284	ug/L
|	V	51	231668.405	0.55	27.1490	0.649	2.391	ug/L
|	Cr	52	206174.845	0.48	27.7801	0.557	2.004	ug/L
|	Cr	53	27313.334	0.06	31.8480	1.301	4.086	ug/L
|	Mn	55	335608.759	0.80	30.4378	0.406	1.334	ug/L
|	Co	59	226446.524	0.54	25.6782	0.135	0.527	ug/L
|	Ni	60	48132.723	0.12	26.1367	0.230	0.881	ug/L
|	Cu	65	49446.805	0.12	25.9768	0.411	1.584	ug/L
|	Zn	66	31741.954	0.08	27.8906	0.256	0.917	ug/L
|>	Ge	72	417819.846	417819.85				ug/L
|	As	75	23131.761	0.06	25.2295	0.293	1.162	ug/L
|	Se	77	1754.154	0.00	25.6486	0.858	3.345	ug/L
|	Se	82	2095.452	0.01	24.7957	0.780	3.144	ug/L
⌊	Rb	85	6922.466	0.02				mg/L
	Y	89	280127.011	-67655.17				ug/L
	Rh	103	88.668	78.33				ug/L
⌈	Mo	98	358.658	0.00	0.1735	0.010	5.939	ug/L
|	Ag	107	93834.650	0.28	22.8129	0.153	0.671	ug/L
|	Cd	114	25008.896	0.08	25.7277	1.007	3.913	ug/L
|>	In	115	331829.450	331829.45				ug/L
|	Sn	118	490.145	0.00	0.1228	0.002	1.485	ug/L
⌊	Sb	123	85540.396	0.26	25.3545	0.313	1.234	ug/L
⌈	Ba	135	86679.935	0.19	56.0645	0.259	0.462	ug/L
|	Ce	140	640.085	0.00				ug/L
⌊>	Tb	159	457865.401	457865.40				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	159144.835	0.37	26.3100	0.705	2.679	ug/L
|	Tl	205	398658.579	0.93	26.6430	0.402	1.510	ug/L
|	Pb	206	135341.562	0.31	27.4113	0.454	1.658	ug/L
|	Pb	207	117658.188	0.27	25.3275	0.250	0.987	ug/L
|	Pb	208	550224.487	1.27	26.6720	0.370	1.386	ug/L
|	U	238	871526.866	2.02	28.7274	0.570	1.983	ug/L
⌊>	Bi	209	430770.056	430770.06				ug/L

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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	42760477.810	150.50	12.6613	0.269	2.128	mg/L
|	K	39	6818414.332	22.13	0.7900	0.041	5.241	mg/L
|	Ca	43	134724.947	0.47	7.5823	0.342	4.509	mg/L
|	Fe	54	148958.161	0.36	0.1814	0.014	7.630	mg/L
|	Fe	57	38471.058	0.11	0.1302	0.009	6.822	mg/L
⌊>	Sc-1	45	284235.847	284235.85				mg/L
	Cl	35	4740885.744	4721869.67				mg/L
	Kr	83	53.667	-7.00				mg/L
	Br	81	172420.532	163810.16				mg/L
	P	31	143448.950	130053.05				mg/L
	S	34	325954.451	137973.47				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		79.961			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		84.537			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.044			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		86.799			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102053302SD WG357168-05

Sample Date/Time: Tuesday, February 22, 2011 17:46:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 59
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17699.104	0.01				ug/L
|	Be	9	6625.533	0.02	28.1147	1.769	6.292	ug/L
|	Al	27	269534.749	0.98	48.6660	0.847	1.740	ug/L
⌊>	Sc	45	273968.909	273968.91				ug/L
⌈	Ti	49	866.791	0.00	1.5944	0.180	11.291	ug/L
|	V	51	234844.271	0.57	28.3108	0.452	1.597	ug/L
|	Cr	52	211538.618	0.50	29.3631	0.356	1.214	ug/L
|	Cr	53	29569.982	0.07	35.4554	0.791	2.230	ug/L
|	Mn	55	348105.472	0.86	32.4712	0.405	1.247	ug/L
|	Co	59	233660.001	0.58	27.2538	0.461	1.691	ug/L
|	Ni	60	49993.826	0.12	27.9214	0.379	1.357	ug/L
|	Cu	65	50850.134	0.12	27.4808	0.502	1.828	ug/L
|	Zn	66	32144.240	0.08	29.0767	0.772	2.654	ug/L
| >	Ge	72	406310.496	406310.50				ug/L
|	As	75	23895.369	0.06	26.8016	0.787	2.935	ug/L
|	Se	77	1759.488	0.00	26.5029	1.114	4.205	ug/L
|	Se	82	2215.553	0.01	26.9688	0.712	2.639	ug/L
⌊	Rb	85	7540.918	0.02				mg/L
	Y	89	269295.349	-78486.83				ug/L
	Rh	103	90.001	79.67				ug/L
⌈	Mo	98	364.284	0.00	0.1811	0.011	5.799	ug/L
|	Ag	107	98045.183	0.30	24.5334	0.435	1.772	ug/L
|	Cd	114	24706.376	0.08	26.1471	0.874	3.343	ug/L
| >	In	115	322421.782	322421.78				ug/L
|	Sn	118	244.670	0.00	0.0550	0.003	5.903	ug/L
⌊	Sb	123	87985.181	0.27	26.8435	0.565	2.103	ug/L
⌈	Ba	135	89114.210	0.20	58.7922	0.695	1.183	ug/L
|	Ce	140	1040.158	0.00				ug/L
⌊>	Tb	159	448930.084	448930.08				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	164831.007	0.39	27.8727	0.941	3.374	ug/L
|	Tl	205	407449.289	0.97	27.8530	0.812	2.916	ug/L
|	Pb	206	141549.956	0.34	29.3287	0.519	1.768	ug/L
|	Pb	207	122740.619	0.29	27.0282	0.513	1.897	ug/L
|	Pb	208	573812.389	1.36	28.4547	0.611	2.149	ug/L
|	U	238	909542.350	2.16	30.6793	0.627	2.045	ug/L
⌊>	Bi	209	421224.194	421224.19				ug/L

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⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	43113608.278	157.37	13.2389	0.309	2.330	mg/L
|	K	39	7023342.459	23.75	0.8482	0.011	1.258	mg/L
|	Ca	43	139479.973	0.51	8.1365	0.100	1.230	mg/L
|	Fe	54	170120.207	0.46	0.2282	0.004	1.594	mg/L
|	Fe	57	46636.543	0.14	0.1714	0.006	3.583	mg/L
⌊>	Sc-1	45	273968.909	273968.91				mg/L
	Cl	35	4863702.929	4844686.86				mg/L
	Kr	83	45.001	-15.67				mg/L
	Br	81	195392.734	186782.36				mg/L
	P	31	143887.159	130491.26				mg/L
	S	34	337940.804	149959.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		77.759			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		82.140			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.267			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		84.875			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102053302SD WG357168-05
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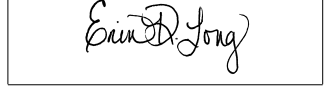

Method 6020 - Summary Report

Sample ID: L1102054513

Sample Date/Time: Tuesday, February 22, 2011 17:53:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 60
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19335.357	0.01				ug/L
|	Be	9	8.000	0.00	-0.0225	0.008	33.442	ug/L
|	Al	27	136087.371	0.47	23.3063	0.795	3.413	ug/L
⌊>	Sc	45	285677.800	285677.80				ug/L
⌈	Ti	49	550.070	0.00	0.9153	0.144	15.713	ug/L
|	V	51	2945.586	0.00	0.0850	0.008	9.948	ug/L
|	Cr	52	15450.083	0.02	1.0671	0.021	1.978	ug/L
|	Cr	53	1803.677	0.00	1.8580	0.072	3.887	ug/L
|	Mn	55	14036.710	0.03	1.1659	0.105	9.025	ug/L
|	Co	59	290.007	0.00	0.0223	0.002	7.131	ug/L
|	Ni	60	672.696	0.00	0.3402	0.026	7.533	ug/L
|	Cu	65	445.348	0.00	0.1531	0.015	9.988	ug/L
|	Zn	66	4324.374	0.01	3.0871	1.141	36.976	ug/L
| >	Ge	72	440713.648	440713.65				ug/L
|	As	75	-51.377	0.00	0.0995	0.032	31.669	ug/L
|	Se	77	65.334	0.00	-0.0533	0.103	193.046	ug/L
|	Se	82	18.902	0.00	0.2294	0.186	81.038	ug/L
⌊	Rb	85	458.682	0.00				mg/L
	Y	89	289315.934	-58466.25				ug/L
	Rh	103	7.333	-3.00				ug/L
⌈	Mo	98	268.760	0.00	0.1208	0.008	6.369	ug/L
|	Ag	107	59.668	0.00	0.0103	0.011	107.858	ug/L
|	Cd	114	8.311	0.00	0.0010	0.005	466.766	ug/L
| >	In	115	366011.247	366011.25				ug/L
|	Sn	118	455.344	0.00	0.1007	0.008	7.896	ug/L
⌊	Sb	123	59.283	0.00	0.0111	0.002	19.818	ug/L
⌈	Ba	135	457.015	0.00	0.2827	0.017	6.182	ug/L
|	Ce	140	1330.221	0.00				ug/L
⌊>	Tb	159	502538.227	502538.23				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	234.338	0.00	0.0318	0.007	21.689	ug/L
|	Tl	205	673.424	0.00	0.0484	0.008	15.703	ug/L
|	Pb	206	540.020	0.00	0.0272	0.005	16.897	ug/L
|	Pb	207	443.014	0.00	0.0302	0.007	21.917	ug/L
|	Pb	208	2164.783	0.00	0.0292	0.003	10.533	ug/L
|	U	238	287.340	0.00	0.0067	0.000	4.344	ug/L
⌊>	Bi	209	492440.807	492440.81				ug/L

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⌈	Na	23	305318.670	1.00	0.0502	0.003	5.753	mg/L
|	Mg	24	111610.490	0.39	0.0289	0.001	5.048	mg/L
|	K	39	806631.490	0.94	0.0291	0.001	3.256	mg/L
|	Ca	43	1673.641	0.01	0.0833	0.003	4.169	mg/L
|	Fe	54	148827.944	0.36	0.1800	0.014	7.599	mg/L
|	Fe	57	29747.166	0.08	0.0931	0.008	8.433	mg/L
⌊>	Sc-1	45	285677.800	285677.80				mg/L
	Cl	35	70181.415	51165.35				mg/L
	Kr	83	49.667	-11.00				mg/L
	Br	81	21959.420	13349.04				mg/L
	P	31	17562.135	4166.23				mg/L
	S	34	211930.255	23949.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.343			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.245			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.927			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.225			
⌈	Na	23					

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

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Method 6020 - Summary Report

Sample ID: L1102054513PS WG357217-01

Sample Date/Time: Tuesday, February 22, 2011 18:00:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 61
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26668.861	0.02				ug/L
|	Be	9	17819.883	0.05	62.0585	6.057	9.760	ug/L
|	Al	27	483054.249	1.43	71.5423	1.499	2.096	ug/L
⌊>	Sc	45	335341.152	335341.15				ug/L
⌈	Ti	49	640.085	0.00	0.9468	0.060	6.348	ug/L
|	V	51	585980.770	1.18	58.0731	0.444	0.765	ug/L
|	Cr	52	513397.406	1.02	59.2905	1.314	2.216	ug/L
|	Cr	53	61058.622	0.12	60.0445	0.816	1.359	ug/L
|	Mn	55	760926.815	1.53	58.1341	0.833	1.433	ug/L
|	Co	59	619551.259	1.25	59.1556	0.834	1.409	ug/L
|	Ni	60	129363.697	0.26	59.1486	1.045	1.767	ug/L
|	Cu	65	133388.115	0.27	59.0788	0.399	0.676	ug/L
|	Zn	66	67385.299	0.13	50.3034	0.146	0.291	ug/L
| >	Ge	72	496332.162	496332.16				ug/L
|	As	75	51658.540	0.10	47.3007	0.596	1.261	ug/L
|	Se	77	3611.986	0.01	45.2050	1.209	2.675	ug/L
|	Se	82	4553.400	0.01	45.3526	0.732	1.615	ug/L
⌊	Rb	85	485.017	0.00				mg/L
	Y	89	326929.821	-20852.36				ug/L
	Rh	103	24.334	14.00				ug/L
⌈	Mo	98	311.985	0.00	0.1177	0.005	4.644	ug/L
|	Ag	107	278523.649	0.64	51.4445	1.141	2.218	ug/L
|	Cd	114	63683.856	0.15	49.7371	1.329	2.672	ug/L
| >	In	115	436916.348	436916.35				ug/L
|	Sn	118	627.086	0.00	0.1189	0.005	4.251	ug/L
⌊	Sb	123	218515.074	0.50	49.2041	1.454	2.955	ug/L
⌈	Ba	135	97682.078	0.16	48.4764	0.963	1.987	ug/L
|	Ce	140	1646.967	0.00				ug/L
⌊>	Tb	159	596929.409	596929.41				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	465896.075	0.78	55.1823	1.506	2.730	ug/L
|	Tl	205	1142096.160	1.90	54.6909	2.158	3.946	ug/L
|	Pb	206	389342.937	0.65	56.5870	2.240	3.958	ug/L
|	Pb	207	337280.904	0.56	52.0688	0.569	1.093	ug/L
|	Pb	208	1584884.949	2.63	55.1116	1.032	1.873	ug/L
|	U	238	2300677.353	3.83	54.3614	1.095	2.015	ug/L
⌊>	Bi	209	601293.410	601293.41				ug/L

Sample ID: L1102054513PS WG357217-01
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⌈	Na	23	312007.177	0.87	0.0429	0.003	7.971	mg/L
|	Mg	24	132029.467	0.39	0.0292	0.002	8.529	mg/L
|	K	39	817231.155	0.56	0.0154	0.004	28.949	mg/L
|	Ca	43	1700.315	0.00	0.0710	0.006	8.721	mg/L
|	Fe	54	165396.976	0.33	0.1666	0.012	7.325	mg/L
|	Fe	57	35218.883	0.08	0.0940	0.004	4.257	mg/L
⌊>	Sc-1	45	335341.152	335341.15				mg/L
	Cl	35	70509.732	51493.66				mg/L
	Kr	83	42.334	-18.33				mg/L
	Br	81	15697.653	7087.28				mg/L
	P	31	27766.852	14370.95				mg/L
	S	34	245737.733	57756.76				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.987			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.309			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		118.696			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		121.158			
⌈	Na	23					

Sample ID: L1102054513PS WG357217-01
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Approved: February 23, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102054513SDL WG357217-02

Sample Date/Time: Tuesday, February 22, 2011 18:07:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 62
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25031.330	0.02				ug/L
|	Be	9	6.667	0.00	-0.0315	0.004	13.469	ug/L
|	Al	27	44850.498	0.13	6.2818	0.211	3.365	ug/L
|>	Sc	45	329577.157	329577.16				ug/L
⌈	Ti	49	163.351	0.00	0.2033	0.039	19.230	ug/L
|	V	51	2374.980	-0.00	-0.0162	0.012	72.640	ug/L
|	Cr	52	9516.623	0.00	0.1066	0.040	37.511	ug/L
|	Cr	53	630.084	0.00	0.4561	0.136	29.733	ug/L
|	Mn	55	3722.730	0.01	0.2334	0.003	1.239	ug/L
|	Co	59	133.002	0.00	0.0034	0.001	29.552	ug/L
|	Ni	60	237.672	0.00	0.0991	0.009	9.295	ug/L
|	Cu	65	200.671	0.00	0.0169	0.007	42.178	ug/L
|	Zn	66	2700.059	0.00	1.3894	0.099	7.158	ug/L
|>	Ge	72	512653.317	512653.32				ug/L
|	As	75	-120.284	0.00	0.0465	0.046	99.820	ug/L
|	Se	77	70.667	0.00	-0.1191	0.026	21.570	ug/L
|	Se	82	12.652	0.00	0.1392	0.046	33.317	ug/L
⌊	Rb	85	125.002	0.00				mg/L
	Y	89	332762.009	-15020.17				ug/L
	Rh	103	9.000	-1.33				ug/L
⌈	Mo	98	77.348	0.00	0.0348	0.002	4.540	ug/L
|	Ag	107	31.334	-0.00	0.0027	0.001	36.894	ug/L
|	Cd	114	10.238	0.00	0.0009	0.002	226.061	ug/L
|>	In	115	454407.646	454407.65				ug/L
|	Sn	118	172.135	0.00	0.0191	0.001	5.465	ug/L
⌊	Sb	123	448.674	0.00	0.0922	0.013	14.643	ug/L
⌈	Ba	135	123.669	0.00	0.0734	0.005	6.834	ug/L
|	Ce	140	320.037	0.00				ug/L
|>	Tb	159	609564.016	609564.02				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	67.001	0.00	0.0055	0.002	27.492	ug/L
|	Tl	205	146.682	0.00	0.0158	0.002	9.989	ug/L
|	Pb	206	543.354	0.00	0.0078	0.004	47.441	ug/L
|	Pb	207	466.016	0.00	0.0163	0.008	46.475	ug/L
|	Pb	208	2187.784	0.00	0.0109	0.004	40.803	ug/L
|	U	238	155.003	0.00	0.0020	0.000	13.485	ug/L
|>	Bi	209	621050.518	621050.52				ug/L

Sample ID: L1102054513SDL WG357217-02
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⌈	Na	23	120777.053	0.30	0.0128	0.000	2.703	mg/L
|	Mg	24	29422.831	0.09	0.0034	0.000	2.307	mg/L
|	K	39	614091.359	-0.02	-0.0054	0.002	28.400	mg/L
|	Ca	43	626.749	0.00	0.0201	0.004	18.637	mg/L
|	Fe	54	71760.421	0.06	0.0322	0.003	9.980	mg/L
|	Fe	57	12428.967	0.01	0.0141	0.002	11.773	mg/L
⌊>	Sc-1	45	329577.157	329577.16				mg/L
	Cl	35	31115.671	12099.60				mg/L
	Kr	83	40.000	-20.67				mg/L
	Br	81	12000.534	3390.16				mg/L
	P	31	15308.415	1912.51				mg/L
	S	34	242208.176	54227.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.110			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		115.765			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		121.208			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		125.139			
⌈	Na	23					

Sample ID: L1102054513SDL WG357217-02
Report Date/Time: Tuesday, February 22, 2011 18:09:22
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Approved: February 23, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 22, 2011 18:13:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22041.019	0.01				ug/L
|	Be	9	16058.221	0.05	61.5666	4.240	6.887	ug/L
|	Al	27	311357.476	1.02	50.7028	1.706	3.365	ug/L
⌊>	Sc	45	304197.649	304197.65				ug/L
⌈	Ti	49	65705.042	0.14	103.3565	0.833	0.806	ug/L
|	V	51	512459.354	1.05	51.8085	1.253	2.419	ug/L
|	Cr	52	433761.725	0.88	50.9944	1.539	3.018	ug/L
|	Cr	53	50592.775	0.10	50.7545	1.441	2.838	ug/L
|	Mn	55	654275.649	1.34	51.0064	1.884	3.693	ug/L
|	Co	59	542674.454	1.12	52.8816	1.468	2.777	ug/L
|	Ni	60	113426.020	0.23	52.9234	1.255	2.372	ug/L
|	Cu	65	116697.255	0.24	52.7441	0.955	1.810	ug/L
|	Zn	66	68145.463	0.14	51.9388	0.980	1.887	ug/L
| >	Ge	72	486310.967	486310.97				ug/L
|	As	75	52152.519	0.11	48.7299	0.426	0.874	ug/L
|	Se	77	3890.757	0.01	49.7897	0.890	1.788	ug/L
|	Se	82	4853.242	0.01	49.3312	0.557	1.129	ug/L
⌊	Rb	85	2016.557	0.00				mg/L
	Y	89	312589.051	-35193.13				ug/L
	Rh	103	25.334	15.00				ug/L
⌈	Mo	98	250726.634	0.62	94.4017	1.071	1.135	ug/L
|	Ag	107	254285.120	0.63	50.7296	0.710	1.400	ug/L
|	Cd	114	59366.656	0.15	50.1029	0.991	1.977	ug/L
| >	In	115	404400.757	404400.76				ug/L
|	Sn	118	211148.579	0.52	49.2692	0.438	0.889	ug/L
⌊	Sb	123	201700.195	0.50	49.0508	0.384	0.782	ug/L
⌈	Ba	135	86737.838	0.16	46.5521	1.341	2.880	ug/L
|	Ce	140	56.673	0.00				ug/L
⌊>	Tb	159	551914.159	551914.16				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	391970.529	0.71	50.8564	1.562	3.071	ug/L
|	Tl	205	967624.876	1.77	50.8039	4.465	8.788	ug/L
|	Pb	206	317987.020	0.58	50.6444	3.126	6.173	ug/L
|	Pb	207	293906.363	0.54	49.7295	2.307	4.639	ug/L
|	Pb	208	1327464.617	2.42	50.5776	2.151	4.253	ug/L
|	U	238	1976017.120	3.60	51.1591	2.011	3.930	ug/L
⌊>	Bi	209	548932.967	548932.97				ug/L

Sample ID: QC Std 6
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Na	23	29942675.507	98.50	5.2308	0.234	4.480	mg/L	
Mg	24	18880407.196	62.14	5.2253	0.195	3.724	mg/L	
K	39	44837657.050	145.77	5.2296	0.315	6.019	mg/L	
Ca	43	99590.213	0.33	5.2375	0.299	5.699	mg/L	
Fe	54	3202804.080	10.39	5.0554	0.319	6.301	mg/L	
Fe	57	1356406.269	4.44	5.2760	0.447	8.477	mg/L	
> Sc-1	45	304197.649	304197.65				mg/L	
Cl	35	21336.080	2320.01				mg/L	
Kr	83	38.667	-22.00				mg/L	
Br	81	10421.429	1811.05				mg/L	
P	31	11306.402	-2089.50				mg/L	
S	34	227643.309	39662.33				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.617				
Cr	52	101.989				
Cr	53					
Mn	55	102.013				
Co	59	105.763				
Ni	60	105.847				
Cu	65	105.488				
Zn	66	103.878				
> Ge	72		93.069			
As	75	97.460				
Se	77					
Se	82	98.662				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.459				
Cd	114	100.206				
> In	115		103.025			
Sn	118					
Sb	123	98.102				
Ba	135	93.104				
Ce	140					
> Tb	159		109.745			
Ho	165					
Tl	203	101.713				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.155				
U	238	102.318				
> Bi	209		110.608			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 18:16:09

Approved: February 23, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 18:16:09
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 22, 2011 18:21:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23427.425	0.02				ug/L
|	Be	9	10.000	0.00	-0.0178	0.015	86.946	ug/L
|	Al	27	3717.366	0.00	0.0756	0.091	120.896	ug/L
⌊>	Sc	45	312990.709	312990.71				ug/L
⌈	Ti	49	56.672	0.00	0.0492	0.019	37.883	ug/L
|	V	51	2127.628	-0.00	-0.0288	0.007	22.693	ug/L
|	Cr	52	7271.049	-0.00	-0.1037	0.022	21.162	ug/L
|	Cr	53	340.040	0.00	0.1982	0.013	6.777	ug/L
|	Mn	55	350.676	0.00	-0.0148	0.000	1.053	ug/L
|	Co	59	52.334	-0.00	-0.0038	0.001	20.136	ug/L
|	Ni	60	49.001	0.00	0.0168	0.003	20.800	ug/L
|	Cu	65	127.002	0.00	-0.0117	0.003	25.668	ug/L
|	Zn	66	559.021	0.00	-0.1543	0.029	18.590	ug/L
| >	Ge	72	486072.762	486072.76				ug/L
|	As	75	-113.731	0.00	0.0467	0.050	106.963	ug/L
|	Se	77	56.667	-0.00	-0.2537	0.069	27.041	ug/L
|	Se	82	11.661	0.00	0.1358	0.065	47.537	ug/L
⌊	Rb	85	22.334	0.00				mg/L
	Y	89	312515.610	-35266.57				ug/L
	Rh	103	8.000	-2.33				ug/L
⌈	Mo	98	97.650	0.00	0.0460	0.005	9.960	ug/L
|	Ag	107	28.334	-0.00	0.0028	0.000	16.520	ug/L
|	Cd	114	-2.133	-0.00	-0.0086	0.002	20.694	ug/L
| >	In	115	400878.193	400878.19				ug/L
|	Sn	118	279.604	0.00	0.0492	0.003	7.111	ug/L
⌊	Sb	123	91.367	0.00	0.0175	0.004	22.356	ug/L
⌈	Ba	135	21.667	0.00	0.0250	0.002	6.948	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	548062.611	548062.61				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	45.001	0.00	0.0036	0.001	27.672	ug/L
|	Tl	205	103.344	0.00	0.0144	0.001	10.092	ug/L
|	Pb	206	453.348	0.00	0.0032	0.003	102.220	ug/L
|	Pb	207	418.346	0.00	0.0171	0.005	26.779	ug/L
|	Pb	208	1845.085	0.00	0.0072	0.002	34.529	ug/L
|	U	238	120.669	0.00	0.0016	0.000	22.786	ug/L
⌊>	Bi	209	551277.794	551277.79				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 18:23:23
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⌈	Na	23	38491.159	0.06	-0.0001	0.000	50.161	mg/L
|	Mg	24	806.781	0.00	-0.0038	0.000	1.337	mg/L
|	K	39	560517.119	-0.09	-0.0080	0.001	6.585	mg/L
|	Ca	43	196.688	-0.00	-0.0003	0.003	852.249	mg/L
|	Fe	54	43792.475	-0.02	-0.0056	0.003	61.428	mg/L
|	Fe	57	6542.797	-0.01	-0.0059	0.001	14.790	mg/L
⌊>	Sc-1	45	312990.709	312990.71				mg/L
	Cl	35	20307.265	1291.20				mg/L
	Kr	83	39.000	-21.67				mg/L
	Br	81	9278.970	668.59				mg/L
	P	31	10863.916	-2531.99				mg/L
	S	34	220430.232	32449.25				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.024			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.128			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.979			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		111.080			
⌈	Na	23					

Sample ID: QC Std 7
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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 18:23:23

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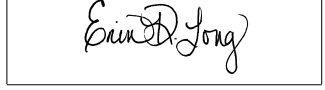

Method 6020 - Summary Report

Sample ID: L1102054712

Sample Date/Time: Tuesday, February 22, 2011 18:27:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 63
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24931.276	0.02				ug/L
|	Be	9	8.667	0.00	-0.0246	0.017	69.276	ug/L
|	Al	27	28273.609	0.08	3.7861	0.587	15.492	ug/L
⌊>	Sc	45	328872.988	328872.99				ug/L
⌈	Ti	49	203.356	0.00	0.2781	0.099	35.459	ug/L
|	V	51	2573.815	0.00	0.0150	0.010	63.947	ug/L
|	Cr	52	11544.109	0.01	0.4006	0.018	4.392	ug/L
|	Cr	53	753.438	0.00	0.6100	0.126	20.604	ug/L
|	Mn	55	2818.760	0.01	0.1767	0.018	10.194	ug/L
|	Co	59	149.003	0.00	0.0056	0.001	25.551	ug/L
|	Ni	60	435.347	0.00	0.1960	0.003	1.444	ug/L
|	Cu	65	362.010	0.00	0.0937	0.016	17.128	ug/L
|	Zn	66	2281.950	0.00	1.1644	0.053	4.591	ug/L
|>	Ge	72	488812.729	488812.73				ug/L
|	As	75	-135.064	0.00	0.0270	0.047	174.516	ug/L
|	Se	77	76.667	0.00	0.0020	0.176	8763.571	ug/L
|	Se	82	7.658	0.00	0.0940	0.066	70.670	ug/L
⌊	Rb	85	106.002	0.00				mg/L
	Y	89	318118.822	-29663.36				ug/L
	Rh	103	9.333	-1.00				ug/L
⌈	Mo	98	158.943	0.00	0.0656	0.002	2.937	ug/L
|	Ag	107	25.667	-0.00	0.0019	0.001	56.604	ug/L
|	Cd	114	5.240	0.00	-0.0025	0.003	126.963	ug/L
|>	In	115	427379.609	427379.61				ug/L
|	Sn	118	1009.251	0.00	0.2062	0.010	4.616	ug/L
⌊	Sb	123	120.244	0.00	0.0228	0.002	9.855	ug/L
⌈	Ba	135	224.338	0.00	0.1260	0.014	11.357	ug/L
|	Ce	140	100.011	0.00				ug/L
⌊>	Tb	159	590142.100	590142.10				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	29.334	0.00	0.0014	0.001	59.751	ug/L
|	Tl	205	66.674	0.00	0.0123	0.001	6.518	ug/L
|	Pb	206	722.033	0.00	0.0398	0.005	13.809	ug/L
|	Pb	207	614.692	0.00	0.0448	0.003	6.596	ug/L
|	Pb	208	2844.521	0.00	0.0396	0.004	9.591	ug/L
|	U	238	87.001	0.00	0.0006	0.000	42.482	ug/L
⌊>	Bi	209	581572.535	581572.54				ug/L

Sample ID: L1102054712
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⌈	Na	23	129172.190	0.33	0.0142	0.001	8.163	mg/L
|	Mg	24	16041.129	0.05	0.0000	0.000	77.068	mg/L
|	K	39	598155.035	-0.06	-0.0070	0.002	22.068	mg/L
|	Ca	43	610.080	0.00	0.0194	0.001	3.851	mg/L
|	Fe	54	106108.263	0.16	0.0833	0.005	6.004	mg/L
|	Fe	57	9455.419	0.00	0.0035	0.002	67.150	mg/L
⌊>	Sc-1	45	328872.988	328872.99				mg/L
	Cl	35	25058.696	6042.63				mg/L
	Kr	83	39.334	-21.33				mg/L
	Br	81	12071.284	3460.91				mg/L
	P	31	25786.744	12390.84				mg/L
	S	34	230338.187	42357.21				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.548			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.879			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		117.347			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		117.185			
⌈	Na	23					

Sample ID: L1102054712
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: F BLANK

Sample Date/Time: Tuesday, February 22, 2011 18:34:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 64
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21456.382	0.01				ug/L
|	Be	9	6.667	0.00	-0.0295	0.004	14.158	ug/L
|	Al	27	4050.840	0.01	0.1463	0.116	79.122	ug/L
⌊>	Sc	45	303539.602	303539.60				ug/L
⌈	Ti	49	46.671	-0.00	0.0336	0.024	72.713	ug/L
|	V	51	2232.897	-0.00	-0.0179	0.008	46.757	ug/L
|	Cr	52	7226.016	-0.00	-0.1082	0.018	16.412	ug/L
|	Cr	53	260.029	0.00	0.1181	0.002	1.568	ug/L
|	Mn	55	510.685	0.00	-0.0023	0.002	71.759	ug/L
|	Co	59	55.334	-0.00	-0.0035	0.000	11.137	ug/L
|	Ni	60	60.334	0.00	0.0221	0.002	8.725	ug/L
|	Cu	65	116.002	0.00	-0.0167	0.007	43.271	ug/L
|	Zn	66	1617.480	0.00	0.6633	0.038	5.792	ug/L
|>	Ge	72	485503.115	485503.12				ug/L
|	As	75	-114.263	0.00	0.0460	0.067	146.811	ug/L
|	Se	77	50.000	-0.00	-0.3398	0.165	48.578	ug/L
|	Se	82	7.244	0.00	0.0912	0.165	180.715	ug/L
⌊	Rb	85	30.334	0.00				mg/L
	Y	89	304350.967	-43431.22				ug/L
	Rh	103	7.333	-3.00				ug/L
⌈	Mo	98	46.530	0.00	0.0270	0.002	8.313	ug/L
|	Ag	107	15.333	-0.00	0.0003	0.000	159.321	ug/L
|	Cd	114	3.859	-0.00	-0.0034	0.002	44.344	ug/L
|>	In	115	392491.013	392491.01				ug/L
|	Sn	118	126.934	0.00	0.0139	0.001	5.848	ug/L
⌊	Sb	123	46.453	-0.00	0.0068	0.003	45.059	ug/L
⌈	Ba	135	24.000	0.00	0.0265	0.003	10.476	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	540964.864	540964.86				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	39.000	0.00	0.0030	0.001	50.674	ug/L
|	Tl	205	73.341	0.00	0.0129	0.001	11.301	ug/L
|	Pb	206	452.348	0.00	0.0043	0.005	116.537	ug/L
|	Pb	207	370.011	0.00	0.0100	0.001	14.714	ug/L
|	Pb	208	1735.743	0.00	0.0042	0.001	23.738	ug/L
|	U	238	18.334	-0.00	-0.0011	0.000	5.953	ug/L
⌊>	Bi	209	542571.724	542571.72				ug/L

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⌈	Na	23	50230.895	0.10	0.0021	0.000	16.579	mg/L
|	Mg	24	1713.652	0.00	-0.0036	0.000	0.598	mg/L
|	K	39	570498.810	-0.00	-0.0048	0.002	35.202	mg/L
|	Ca	43	243.361	-0.00	0.0025	0.003	105.629	mg/L
|	Fe	54	30947.669	-0.06	-0.0241	0.003	14.491	mg/L
|	Fe	57	6833.018	-0.00	-0.0040	0.001	26.916	mg/L
⌊>	Sc-1	45	303539.602	303539.60				mg/L
	Cl	35	18899.178	-116.89				mg/L
	Kr	83	48.667	-12.00				mg/L
	Br	81	9060.109	449.73				mg/L
	P	31	10403.416	-2992.49				mg/L
	S	34	217175.627	29194.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.914			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.991			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.568			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.326			
⌈	Na	23					

Sample ID: F BLANK
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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: F BLANK
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Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, February 22, 2011 18:41:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22542.237	0.02				ug/L
|	Be	9	7.333	0.00	-0.0264	0.025	95.131	ug/L
|	Al	27	28321629.271	95.48	4773.2209	173.719	3.639	ug/L
⌊>	Sc	45	296669.917	296669.92				ug/L
⌈	Ti	49	62561.413	0.13	100.0466	3.091	3.090	ug/L
|	V	51	1817.301	-0.00	-0.0574	0.012	21.276	ug/L
|	Cr	52	7665.013	-0.00	-0.0419	0.007	16.328	ug/L
|	Cr	53	1446.917	0.00	1.3364	0.217	16.253	ug/L
|	Mn	55	4103.550	0.01	0.2833	0.003	0.928	ug/L
|	Co	59	2098.241	0.00	0.1990	0.003	1.268	ug/L
|	Ni	60	1292.097	0.00	0.6068	0.037	6.142	ug/L
|	Cu	65	930.386	0.00	0.3588	0.028	7.895	ug/L
|	Zn	66	1026.730	0.00	0.2188	0.032	14.835	ug/L
| >	Ge	72	478401.943	478401.94				ug/L
|	As	75	-159.802	0.00	0.0009	0.031	3395.198	ug/L
|	Se	77	122.667	0.00	0.6339	0.075	11.794	ug/L
|	Se	82	5.241	0.00	0.0709	0.037	51.844	ug/L
⌊	Rb	85	1761.839	0.00				mg/L
	Y	89	290082.590	-57699.59				ug/L
	Rh	103	14.333	4.00				ug/L
⌈	Mo	98	234686.570	0.61	92.7236	1.079	1.163	ug/L
|	Ag	107	61.667	0.00	0.0100	0.001	9.792	ug/L
|	Cd	114	95.161	0.00	0.0775	0.031	40.558	ug/L
| >	In	115	385370.852	385370.85				ug/L
|	Sn	118	428.809	0.00	0.0884	0.002	2.374	ug/L
⌊	Sb	123	150.783	0.00	0.0336	0.002	6.894	ug/L
⌈	Ba	135	56.667	0.00	0.0458	0.005	11.434	ug/L
|	Ce	140	216.691	0.00				ug/L
⌊>	Tb	159	515287.412	515287.41				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	118.335	0.00	0.0145	0.002	14.355	ug/L
|	Tl	205	286.700	0.00	0.0253	0.003	13.672	ug/L
|	Pb	206	488.017	0.00	0.0157	0.003	16.337	ug/L
|	Pb	207	395.678	0.00	0.0193	0.002	11.795	ug/L
|	Pb	208	1865.753	0.00	0.0145	0.002	15.284	ug/L
|	U	238	18.667	0.00	-0.0010	0.000	5.729	ug/L
⌊>	Bi	209	505386.092	505386.09				ug/L

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Na	23	76106179.745	256.48	13.6258	0.239	1.755	mg/L
Mg	24	18741569.576	63.18	5.3125	0.167	3.145	mg/L
K	39	44735450.128	148.93	5.3433	0.126	2.360	mg/L
Ca	43	275820.058	0.93	14.8693	0.362	2.438	mg/L
Fe	54	7838111.655	26.26	12.7733	0.385	3.011	mg/L
Fe	57	3183217.377	10.71	12.7092	0.418	3.286	mg/L
> Sc-1	45	296669.917	296669.92				mg/L
Cl	35	2063980.938	2044964.87				mg/L
Kr	83	49.001	-11.67				mg/L
Br	81	8316.124	-294.25				mg/L
P	31	1813929.268	1800533.37				mg/L
S	34	387843.532	199862.55				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		91.555			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		98.177			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		102.462			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		101.833			
Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Tuesday, February 22, 2011 18:43:45
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Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, February 22, 2011 18:48:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23678.006	0.02				ug/L
|	Be	9	31425.973	0.10	119.7105	2.866	2.394	ug/L
|	Al	27	27631053.678	90.41	4519.6078	146.754	3.247	ug/L
⌊>	Sc	45	305720.839	305720.84				ug/L
⌈	Ti	49	63061.197	0.13	101.2990	1.134	1.119	ug/L
|	V	51	996668.068	2.09	103.1355	1.095	1.062	ug/L
|	Cr	52	843877.964	1.76	102.2712	1.056	1.032	ug/L
|	Cr	53	101509.443	0.21	104.1465	1.344	1.291	ug/L
|	Mn	55	1312786.710	2.76	104.5602	0.774	0.741	ug/L
|	Co	59	1040524.616	2.18	103.5470	1.852	1.788	ug/L
|	Ni	60	215563.480	0.45	102.7249	1.199	1.167	ug/L
|	Cu	65	226942.619	0.48	104.8227	2.154	2.055	ug/L
|	Zn	66	131890.743	0.28	103.2272	0.268	0.260	ug/L
|>	Ge	72	476207.311	476207.31				ug/L
|	As	75	102431.827	0.22	97.5885	1.290	1.322	ug/L
|	Se	77	7502.147	0.02	99.0165	2.827	2.855	ug/L
|	Se	82	9140.905	0.02	94.8790	2.030	2.140	ug/L
⌊	Rb	85	1809.849	0.00				mg/L
	Y	89	291523.739	-56258.44				ug/L
	Rh	103	52.001	41.67				ug/L
⌈	Mo	98	234517.083	0.59	89.6335	0.765	0.853	ug/L
|	Ag	107	397410.981	1.00	80.5283	6.555	8.139	ug/L
|	Cd	114	119647.092	0.30	102.4870	2.653	2.588	ug/L
|>	In	115	398375.212	398375.21				ug/L
|	Sn	118	494.279	0.00	0.1005	0.002	1.793	ug/L
⌊	Sb	123	390028.258	0.98	96.2985	1.207	1.253	ug/L
⌈	Ba	135	169196.051	0.32	93.5422	0.845	0.904	ug/L
|	Ce	140	270.031	0.00				ug/L
⌊>	Tb	159	535617.728	535617.73				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	746103.935	1.45	103.5447	0.992	0.958	ug/L
|	Tl	205	1816055.164	3.54	101.8728	1.645	1.615	ug/L
|	Pb	206	628905.546	1.23	107.1640	2.380	2.221	ug/L
|	Pb	207	551904.157	1.08	99.9158	1.607	1.608	ug/L
|	Pb	208	2542877.248	4.95	103.6722	0.348	0.336	ug/L
|	U	238	3702128.797	7.22	102.5084	1.716	1.674	ug/L
⌊>	Bi	209	512950.542	512950.54				ug/L

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⌈	Na	23	74309378.639	242.99	12.9091	0.526	4.074	mg/L
|	Mg	24	18765715.249	61.40	5.1630	0.114	2.210	mg/L
|	K	39	45468221.790	146.87	5.2692	0.082	1.550	mg/L
|	Ca	43	286676.999	0.94	14.9957	0.075	0.503	mg/L
|	Fe	54	7768367.929	25.25	12.2816	0.106	0.859	mg/L
|	Fe	57	3175314.006	10.36	12.2984	0.149	1.213	mg/L
⌊>	Sc-1	45	305720.839	305720.84				mg/L
	Cl	35	2091085.203	2072069.13				mg/L
	Kr	83	46.667	-14.00				mg/L
	Br	81	7940.486	-669.89				mg/L
	P	31	1807702.920	1794307.02				mg/L
	S	34	386120.008	198139.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	103.135				
|	Cr	52	102.271				
|	Cr	53					
|	Mn	55	104.560				
|	Co	59	103.547				
|	Ni	60	102.725				
|	Cu	65	104.823				
|	Zn	66	103.227				
|>	Ge	72		91.135			
|	As	75	97.588				
|	Se	77					
|	Se	82	94.879				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	80.528				
|	Cd	114	102.487				
|>	In	115		101.490			
|	Sn	118					
⌊	Sb	123	96.299				
⌈	Ba	135	93.542				
|	Ce	140					
⌊>	Tb	159		106.505			
⌈	Ho	165					
|	Tl	203	103.545				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	103.672				
|	U	238	102.508				
⌊>	Bi	209		103.358			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Tuesday, February 22, 2011 18:50:33

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 22, 2011 18:55:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23244.141	0.01				ug/L
|	Be	9	15693.654	0.05	57.0557	0.974	1.707	ug/L
|	Al	27	326169.478	1.01	50.4878	2.582	5.114	ug/L
⌊>	Sc	45	320045.247	320045.25				ug/L
⌈	Ti	49	67027.259	0.14	104.5665	1.589	1.519	ug/L
|	V	51	505962.755	1.03	50.7245	0.452	0.890	ug/L
|	Cr	52	432182.017	0.86	50.3884	1.898	3.767	ug/L
|	Cr	53	50840.700	0.10	50.5927	1.814	3.585	ug/L
|	Mn	55	658812.124	1.34	50.9394	0.769	1.511	ug/L
|	Co	59	538477.226	1.10	52.0427	0.879	1.690	ug/L
|	Ni	60	111728.482	0.23	51.7048	0.842	1.629	ug/L
|	Cu	65	116917.020	0.24	52.4105	0.933	1.780	ug/L
|	Zn	66	68641.128	0.14	51.8870	0.820	1.580	ug/L
⌊>	Ge	72	490386.656	490386.66				ug/L
|	As	75	50951.195	0.10	47.2232	0.884	1.871	ug/L
|	Se	77	3907.431	0.01	49.6094	3.390	6.834	ug/L
|	Se	82	4724.088	0.01	47.6288	1.224	2.569	ug/L
⌊	Rb	85	2001.554	0.00				mg/L
	Y	89	307087.731	-40694.45				ug/L
	Rh	103	18.667	8.33				ug/L
⌈	Mo	98	244378.761	0.61	93.3194	2.714	2.908	ug/L
|	Ag	107	248580.102	0.62	50.2919	1.078	2.144	ug/L
|	Cd	114	58360.208	0.15	49.9268	1.325	2.655	ug/L
⌊>	In	115	398880.597	398880.60				ug/L
|	Sn	118	208929.176	0.52	49.4326	0.699	1.414	ug/L
⌊	Sb	123	199977.001	0.50	49.3119	0.467	0.946	ug/L
⌈	Ba	135	85462.215	0.15	45.4734	0.521	1.145	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	556591.718	556591.72				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	383311.473	0.69	49.4675	0.746	1.507	ug/L
|	Tl	205	921405.906	1.67	48.0790	1.188	2.471	ug/L
|	Pb	206	308641.796	0.56	48.8665	0.484	0.990	ug/L
|	Pb	207	291822.199	0.53	49.1071	1.248	2.542	ug/L
|	Pb	208	1298844.762	2.35	49.2163	0.845	1.717	ug/L
|	U	238	1967580.965	3.57	50.6798	1.516	2.991	ug/L
⌊>	Bi	209	551642.384	551642.38				ug/L

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Na	23	30924525.818	96.64	5.1324	0.184	3.594	mg/L	
Mg	24	19173173.481	59.95	5.0408	0.143	2.832	mg/L	
K	39	46164614.717	142.51	5.1128	0.216	4.229	mg/L	
Ca	43	98698.095	0.31	4.9308	0.277	5.622	mg/L	
Fe	54	3194728.656	9.83	4.7861	0.272	5.689	mg/L	
Fe	57	1353367.184	4.20	4.9922	0.198	3.965	mg/L	
> Sc-1	45	320045.247	320045.25				mg/L	
Cl	35	21555.881	2539.81				mg/L	
Kr	83	49.667	-11.00				mg/L	
Br	81	8089.277	-521.10				mg/L	
P	31	11726.222	-1669.68				mg/L	
S	34	232064.569	44083.59				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	101.449				
Cr	52	100.777				
Cr	53					
Mn	55	101.879				
Co	59	104.085				
Ni	60	103.410				
Cu	65	104.821				
Zn	66	103.774				
> Ge	72		93.849			
As	75	94.446				
Se	77					
Se	82	95.258				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.584				
Cd	114	99.854				
> In	115		101.619			
Sn	118					
Sb	123	98.624				
Ba	135	90.947				
Ce	140					
> Tb	159		110.675			
Ho	165					
Tl	203	98.935				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.433				
U	238	101.360				
> Bi	209		111.154			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 18:57:20

Approved: February 23, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
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Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 22, 2011 19:02:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20855.375	0.01				ug/L
|	Be	9	8.000	0.00	-0.0261	0.013	49.151	ug/L
|	Al	27	4034.163	0.00	0.1070	0.112	104.521	ug/L
⌊>	Sc	45	322208.896	322208.90				ug/L
⌈	Ti	49	46.671	-0.00	0.0325	0.050	153.660	ug/L
|	V	51	2160.131	-0.00	-0.0280	0.003	12.314	ug/L
|	Cr	52	7475.535	-0.00	-0.0891	0.013	14.240	ug/L
|	Cr	53	360.042	0.00	0.2145	0.002	1.049	ug/L
|	Mn	55	379.678	0.00	-0.0129	0.003	20.280	ug/L
|	Co	59	53.667	-0.00	-0.0037	0.000	0.937	ug/L
|	Ni	60	41.667	-0.00	0.0131	0.001	11.123	ug/L
|	Cu	65	125.669	0.00	-0.0130	0.004	28.547	ug/L
|	Zn	66	543.687	0.00	-0.1707	0.045	26.476	ug/L
|>	Ge	72	491433.507	491433.51				ug/L
|	As	75	-143.414	0.00	0.0200	0.061	307.200	ug/L
|	Se	77	44.667	-0.00	-0.4169	0.018	4.328	ug/L
|	Se	82	-9.076	-0.00	-0.0753	0.199	263.756	ug/L
⌊	Rb	85	22.000	-0.00				mg/L
	Y	89	312278.888	-35503.29				ug/L
	Rh	103	6.333	-4.00				ug/L
⌈	Mo	98	140.605	0.00	0.0620	0.005	8.477	ug/L
|	Ag	107	28.667	-0.00	0.0028	0.000	16.160	ug/L
|	Cd	114	-3.738	-0.00	-0.0099	0.002	15.974	ug/L
|>	In	115	402580.237	402580.24				ug/L
|	Sn	118	253.070	0.00	0.0427	0.004	8.597	ug/L
⌊	Sb	123	274.417	0.00	0.0621	0.004	6.760	ug/L
⌈	Ba	135	24.000	0.00	0.0261	0.004	14.709	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	555297.889	555297.89				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	42.334	0.00	0.0034	0.000	3.570	ug/L
|	Tl	205	93.343	0.00	0.0139	0.004	28.989	ug/L
|	Pb	206	437.347	0.00	0.0024	0.005	227.363	ug/L
|	Pb	207	371.677	0.00	0.0108	0.003	27.977	ug/L
|	Pb	208	1742.077	0.00	0.0050	0.001	11.170	ug/L
|	U	238	96.335	0.00	0.0010	0.001	55.996	ug/L
⌊>	Bi	209	538033.190	538033.19				ug/L

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⌈	Na	23	29526.489	0.03	-0.0018	0.000	3.652	mg/L
|	Mg	24	853.455	0.00	-0.0038	0.000	0.681	mg/L
|	K	39	552525.514	-0.17	-0.0107	0.001	9.060	mg/L
|	Ca	43	210.023	-0.00	0.0001	0.002	1822.200	mg/L
|	Fe	54	43743.119	-0.03	-0.0077	0.001	17.917	mg/L
|	Fe	57	6742.949	-0.01	-0.0059	0.001	19.490	mg/L
⌊>	Sc-1	45	322208.896	322208.90				mg/L
	Cl	35	19686.025	669.96				mg/L
	Kr	83	47.001	-13.67				mg/L
	Br	81	7936.492	-673.88				mg/L
	P	31	11050.105	-2345.80				mg/L
	S	34	225445.211	37464.23				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.049			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.562			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.418			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.412			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
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Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, February 22, 2011 19:09:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21105.592	0.01				ug/L
|	Be	9	6.000	0.00	-0.0322	0.013	41.827	ug/L
|	Al	27	2833.742	0.00	-0.0554	0.104	187.694	ug/L
⌊>	Sc	45	308121.008	308121.01				ug/L
⌈	Ti	49	73.341	0.00	0.0736	0.034	45.743	ug/L
|	V	51	6224.976	0.01	0.3759	0.014	3.780	ug/L
|	Cr	52	14533.033	0.01	0.7347	0.032	4.290	ug/L
|	Cr	53	1123.509	0.00	0.9654	0.089	9.199	ug/L
|	Mn	55	7720.724	0.01	0.5495	0.016	2.888	ug/L
|	Co	59	4654.463	0.01	0.4366	0.004	0.954	ug/L
|	Ni	60	3909.137	0.01	1.7858	0.079	4.399	ug/L
|	Cu	65	2031.894	0.00	0.8342	0.049	5.828	ug/L
|	Zn	66	9167.292	0.02	6.3541	0.128	2.011	ug/L
|>	Ge	72	495219.599	495219.60				ug/L
|	As	75	264.737	0.00	0.3949	0.050	12.650	ug/L
|	Se	77	82.667	0.00	0.0657	0.027	40.861	ug/L
|	Se	82	32.928	0.00	0.3456	0.036	10.546	ug/L
⌊	Rb	85	17.667	-0.00				mg/L
	Y	89	312058.951	-35723.23				ug/L
	Rh	103	5.000	-5.33				ug/L
⌈	Mo	98	79.088	0.00	0.0393	0.002	4.307	ug/L
|	Ag	107	2104.909	0.01	0.4251	0.012	2.727	ug/L
|	Cd	114	263.663	0.00	0.2201	0.012	5.517	ug/L
|>	In	115	396761.753	396761.75				ug/L
|	Sn	118	155.335	0.00	0.0203	0.001	2.521	ug/L
⌊	Sb	123	1692.363	0.00	0.4145	0.011	2.643	ug/L
⌈	Ba	135	1350.105	0.00	0.7642	0.017	2.169	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	532458.568	532458.57				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	694.031	0.00	0.0906	0.005	5.040	ug/L
|	Tl	205	1536.939	0.00	0.0921	0.009	9.542	ug/L
|	Pb	206	2843.099	0.00	0.3982	0.013	3.220	ug/L
|	Pb	207	2707.060	0.00	0.4189	0.013	3.078	ug/L
|	Pb	208	12167.752	0.02	0.4152	0.013	3.156	ug/L
|	U	238	16193.274	0.03	0.4306	0.025	5.810	ug/L
⌊>	Bi	209	532703.833	532703.83				ug/L

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⌈	Na	23	23032.162	0.01	-0.0027	0.000	3.165	mg/L
|	Mg	24	480.060	0.00	-0.0039	0.000	0.250	mg/L
|	K	39	550591.339	-0.09	-0.0080	0.004	44.518	mg/L
|	Ca	43	156.684	-0.00	-0.0021	0.003	149.258	mg/L
|	Fe	54	42937.907	-0.02	-0.0057	0.006	111.097	mg/L
|	Fe	57	6562.812	-0.01	-0.0053	0.003	55.027	mg/L
⌊>	Sc-1	45	308121.008	308121.01				mg/L
	Cl	35	19271.889	255.82				mg/L
	Kr	83	46.667	-14.00				mg/L
	Br	81	7931.144	-679.23				mg/L
	P	31	11269.692	-2126.21				mg/L
	S	34	215014.669	27033.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	93.977				
|	Cr	52	91.836				
|	Cr	53					
|	Mn	55	109.898				
|	Co	59	109.148				
|	Ni	60	111.614				
|	Cu	65	104.281				
|	Zn	66	101.666				
|>	Ge	72		94.774			
|	As	75	98.735				
|	Se	77					
|	Se	82	86.396				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	106.272				
|	Cd	114	110.032				
|>	In	115		101.079			
|	Sn	118					
⌊	Sb	123	103.633				
⌈	Ba	135	101.895				
|	Ce	140					
⌊>	Tb	159		105.876			
⌈	Ho	165					
|	Tl	203	113.237				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	103.811				
|	U	238	107.641				
⌊>	Bi	209		107.338			
⌈	Na	23					

Sample ID: QC Std 8
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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 8
Report Date/Time: Tuesday, February 22, 2011 19:11:24
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Method 6020 - Summary Report

Sample ID: PBS 15 WG356440-01

Sample Date/Time: Tuesday, February 22, 2011 19:15:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 65
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25182.144	0.03				ug/L
|	Be	9	8.667	0.00	-0.0216	0.005	21.208	ug/L
|	Al	27	17465.262	0.05	2.3777	0.176	7.399	ug/L
|>	Sc	45	301599.551	301599.55				ug/L
⌈	Ti	49	5078.468	0.01	8.7898	0.695	7.908	ug/L
|	V	51	-5726.810	-0.02	-0.8871	0.250	28.147	ug/L
|	Cr	52	12647.121	0.01	0.6983	0.048	6.945	ug/L
|	Cr	53	49279.672	0.11	54.6310	3.789	6.936	ug/L
|	Mn	55	1119.074	0.00	0.0542	0.005	8.325	ug/L
|	Co	59	88.001	0.00	0.0006	0.001	213.729	ug/L
|	Ni	60	247.006	0.00	0.1211	0.005	4.217	ug/L
|	Cu	65	262.006	0.00	0.0617	0.002	3.471	ug/L
|	Zn	66	3356.930	0.01	2.2723	0.060	2.637	ug/L
|>	Ge	72	440341.696	440341.70				ug/L
|	As	75	-473.567	-0.00	-0.3336	0.267	79.983	ug/L
|	Se	77	2311.601	0.01	32.3239	0.645	1.995	ug/L
|	Se	82	-6.157	-0.00	-0.0517	0.119	229.679	ug/L
⌊	Rb	85	36.667	0.00				mg/L
	Y	89	277886.783	-69895.40				ug/L
	Rh	103	6.333	-4.00				ug/L
⌈	Mo	98	79.754	0.00	0.0409	0.002	4.349	ug/L
|	Ag	107	440.014	0.00	0.0906	0.013	13.969	ug/L
|	Cd	114	-4.883	-0.00	-0.0111	0.002	19.860	ug/L
|>	In	115	380148.013	380148.01				ug/L
|	Sn	118	1442.106	0.00	0.3417	0.060	17.630	ug/L
⌊	Sb	123	670.896	0.00	0.1688	0.018	10.707	ug/L
⌈	Ba	135	70.001	0.00	0.0518	0.006	11.420	ug/L
|	Ce	140	116.679	0.00				ug/L
|>	Tb	159	537814.206	537814.21				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	70.001	0.00	0.0074	0.003	34.735	ug/L
|	Tl	205	163.351	0.00	0.0180	0.002	10.492	ug/L
|	Pb	206	715.366	0.00	0.0512	0.002	3.830	ug/L
|	Pb	207	602.691	0.00	0.0541	0.012	22.408	ug/L
|	Pb	208	2840.522	0.00	0.0512	0.008	15.329	ug/L
|	U	238	55.667	0.00	-0.0000	0.000	127.805	ug/L
|>	Bi	209	521624.106	521624.11				ug/L

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⌈	Na	23	128963.747	0.36	0.0160	0.002	11.067	mg/L
|	Mg	24	14101.378	0.05	-0.0001	0.000	256.657	mg/L
|	K	39	564633.110	-0.01	-0.0051	0.001	18.754	mg/L
|	Ca	43	363.376	0.00	0.0090	0.002	24.013	mg/L
|	Fe	54	78923.959	0.10	0.0536	0.003	6.527	mg/L
|	Fe	57	7089.889	-0.00	-0.0028	0.001	25.520	mg/L
⌊>	Sc-1	45	301599.551	301599.55				mg/L
	Cl	35	60197977.484	60178961.41				mg/L
	Kr	83	56.334	-4.33				mg/L
	Br	81	10683.706	2073.33				mg/L
	P	31	16686.625	3290.72				mg/L
	S	34	211209.758	23228.78				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.272			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.847			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.941			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.105			
⌈	Na	23					

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|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
V 51 Lower	V	51	

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Method 6020 - Summary Report

Sample ID: L1102000237

Sample Date/Time: Tuesday, February 22, 2011 19:22:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 66
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28540.687	0.04				ug/L
|	Be	9	8380.870	0.03	33.3606	3.585	10.745	ug/L
|	Al	27	176681.118	0.60	29.7574	1.989	6.685	ug/L
⌊>	Sc	45	292281.509	292281.51				ug/L
⌈	Ti	49	4995.082	0.01	8.7738	0.409	4.661	ug/L
|	V	51	225707.100	0.52	25.4606	0.601	2.362	ug/L
|	Cr	52	218029.495	0.49	28.3158	0.342	1.206	ug/L
|	Cr	53	76455.638	0.18	86.1098	3.026	3.514	ug/L
|	Mn	55	319859.808	0.74	27.9412	0.463	1.656	ug/L
|	Co	59	261784.749	0.60	28.5996	0.214	0.747	ug/L
|	Ni	60	55271.237	0.13	28.9152	0.557	1.925	ug/L
|	Cu	65	56913.406	0.13	28.8116	0.251	0.872	ug/L
|	Zn	66	34888.781	0.08	29.5661	0.422	1.428	ug/L
|>	Ge	72	433709.201	433709.20				ug/L
|	As	75	22411.909	0.05	23.5596	0.113	0.480	ug/L
|	Se	77	3909.431	0.01	56.2239	1.781	3.167	ug/L
|	Se	82	1894.773	0.00	21.6047	0.579	2.679	ug/L
⌊	Rb	85	48.334	0.00				mg/L
	Y	89	267498.609	-80283.57				ug/L
	Rh	103	17.667	7.33				ug/L
⌈	Mo	98	66.128	0.00	0.0347	0.005	14.052	ug/L
|	Ag	107	114263.396	0.29	23.6261	0.354	1.496	ug/L
|	Cd	114	28927.721	0.07	25.3007	0.341	1.349	ug/L
|>	In	115	390166.334	390166.33				ug/L
|	Sn	118	983.248	0.00	0.2212	0.009	4.102	ug/L
⌊	Sb	123	96328.108	0.25	24.2786	0.369	1.519	ug/L
⌈	Ba	135	41317.268	0.08	22.2833	0.077	0.345	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	549296.776	549296.78				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	192718.285	0.37	26.1606	0.489	1.870	ug/L
|	Tl	205	457374.956	0.87	25.1040	1.050	4.184	ug/L
|	Pb	206	161659.678	0.31	26.8920	0.435	1.617	ug/L
|	Pb	207	145495.767	0.28	25.7251	0.446	1.735	ug/L
|	Pb	208	670806.315	1.28	26.7063	0.165	0.618	ug/L
|	U	238	1016303.635	1.94	27.5262	0.192	0.697	ug/L
⌊>	Bi	209	524368.667	524368.67				ug/L

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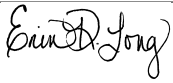

⌈	Na	23	126526.979	0.37	0.0164	0.002	13.309	mg/L
|	Mg	24	15196.394	0.05	0.0003	0.000	33.820	mg/L
|	K	39	556443.659	0.03	-0.0039	0.003	68.712	mg/L
|	Ca	43	406.716	0.00	0.0121	0.007	54.161	mg/L
|	Fe	54	79600.938	0.11	0.0588	0.005	8.040	mg/L
|	Fe	57	7226.674	-0.00	-0.0013	0.003	233.350	mg/L
⌊>	Sc-1	45	292281.509	292281.51				mg/L
	Cl	35	57253254.476	57234238.41				mg/L
	Kr	83	50.001	-10.67				mg/L
	Br	81	10141.810	1531.43				mg/L
	P	31	16030.900	2635.00				mg/L
	S	34	203212.319	15231.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.002			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.399			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.225			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.658			
⌈	Na	23					

Sample ID: L1102000237
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102000237
Report Date/Time: Tuesday, February 22, 2011 19:25:00
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Method 6020 - Summary Report

Sample ID: L1102000238

Sample Date/Time: Tuesday, February 22, 2011 19:29:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 67
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30078.524	0.04				ug/L
|	Be	9	8597.698	0.03	34.1053	1.699	4.981	ug/L
|	Al	27	220572.828	0.74	37.1128	1.891	5.094	ug/L
⌊>	Sc	45	293466.060	293466.06				ug/L
⌈	Ti	49	4935.045	0.01	8.4554	0.256	3.022	ug/L
|	V	51	229314.610	0.51	25.2332	1.148	4.548	ug/L
|	Cr	52	213692.198	0.46	27.0318	0.447	1.653	ug/L
|	Cr	53	77302.026	0.17	84.9313	1.304	1.535	ug/L
|	Mn	55	318567.448	0.72	27.1472	0.278	1.026	ug/L
|	Co	59	261343.456	0.59	27.8555	0.646	2.318	ug/L
|	Ni	60	55304.063	0.12	28.2245	0.128	0.454	ug/L
|	Cu	65	58069.713	0.13	28.6781	0.259	0.902	ug/L
|	Zn	66	33925.455	0.08	28.0187	0.194	0.691	ug/L
| >	Ge	72	444564.774	444564.77				ug/L
|	As	75	21499.549	0.05	22.0582	0.133	0.604	ug/L
|	Se	77	3969.454	0.01	55.6817	0.229	0.411	ug/L
|	Se	82	1853.488	0.00	20.6198	0.399	1.934	ug/L
⌊	Rb	85	64.001	0.00				mg/L
	Y	89	272086.043	-75696.14				ug/L
	Rh	103	16.334	6.00				ug/L
⌈	Mo	98	56.165	0.00	0.0307	0.002	5.451	ug/L
|	Ag	107	113120.166	0.29	23.2094	0.171	0.737	ug/L
|	Cd	114	28744.349	0.07	24.9522	1.049	4.205	ug/L
| >	In	115	393224.803	393224.80				ug/L
|	Sn	118	506.279	0.00	0.1049	0.002	1.621	ug/L
⌊	Sb	123	96690.672	0.25	24.1875	0.513	2.121	ug/L
⌈	Ba	135	41967.968	0.07	21.7381	0.333	1.530	ug/L
|	Ce	140	300.035	0.00				ug/L
⌊>	Tb	159	572020.522	572020.52				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	197346.972	0.37	26.1766	0.029	0.110	ug/L
|	Tl	205	471740.071	0.88	25.3035	0.721	2.850	ug/L
|	Pb	206	167786.486	0.31	27.2782	0.882	3.232	ug/L
|	Pb	207	148338.614	0.28	25.6310	0.920	3.591	ug/L
|	Pb	208	694156.994	1.29	27.0084	0.725	2.685	ug/L
|	U	238	1028063.563	1.92	27.2099	0.325	1.196	ug/L
⌊>	Bi	209	536632.579	536632.58				ug/L

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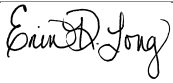

⌈	Na	23	84434.357	0.22	0.0087	0.002	18.360	mg/L
|	Mg	24	23690.411	0.08	0.0027	0.000	9.754	mg/L
|	K	39	524403.691	-0.09	-0.0081	0.003	35.649	mg/L
|	Ca	43	586.743	0.00	0.0216	0.002	7.272	mg/L
|	Fe	54	84138.767	0.13	0.0660	0.009	13.707	mg/L
|	Fe	57	8524.486	0.00	0.0039	0.003	67.067	mg/L
⌊>	Sc-1	45	293466.060	293466.06				mg/L
	Cl	35	55560122.498	55541106.43				mg/L
	Kr	83	43.334	-17.33				mg/L
	Br	81	10400.741	1790.37				mg/L
	P	31	15571.542	2175.64				mg/L
	S	34	202501.027	14520.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.080			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.178			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		113.743			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.129			
⌈	Na	23					

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| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102000238
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Method 6020 - Summary Report

Sample ID: L1102000239

Sample Date/Time: Tuesday, February 22, 2011 19:36:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 68
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29276.206	0.04				ug/L
|	Be	9	8748.492	0.03	34.1291	0.564	1.653	ug/L
|	Al	27	163628.732	0.54	26.9184	0.693	2.574	ug/L
⌊>	Sc	45	298111.724	298111.72				ug/L
⌈	Ti	49	4701.576	0.01	8.1556	0.359	4.406	ug/L
|	V	51	223778.582	0.50	24.9280	0.166	0.668	ug/L
|	Cr	52	215468.977	0.47	27.6131	0.436	1.579	ug/L
|	Cr	53	91314.164	0.21	101.5901	0.643	0.633	ug/L
|	Mn	55	314020.015	0.71	27.0964	0.815	3.009	ug/L
|	Co	59	263296.798	0.60	28.4152	0.784	2.758	ug/L
|	Ni	60	55672.202	0.13	28.7715	1.183	4.113	ug/L
|	Cu	65	57166.539	0.13	28.5820	0.456	1.595	ug/L
|	Zn	66	33885.995	0.08	28.3376	0.065	0.231	ug/L
⌊>	Ge	72	439138.797	439138.80				ug/L
|	As	75	22004.690	0.05	22.8504	0.134	0.587	ug/L
|	Se	77	4472.333	0.01	63.6549	1.285	2.019	ug/L
|	Se	82	1901.809	0.00	21.4183	0.393	1.833	ug/L
⌊	Rb	85	40.000	0.00				mg/L
	Y	89	262486.246	-85295.94				ug/L
	Rh	103	20.667	10.33				ug/L
⌈	Mo	98	48.014	0.00	0.0273	0.002	8.624	ug/L
|	Ag	107	115420.111	0.29	23.3378	0.492	2.108	ug/L
|	Cd	114	28085.423	0.07	24.0259	1.098	4.571	ug/L
⌊>	In	115	399145.289	399145.29				ug/L
|	Sn	118	816.967	0.00	0.1768	0.017	9.541	ug/L
⌊	Sb	123	97891.081	0.25	24.1266	0.508	2.106	ug/L
⌈	Ba	135	40634.139	0.07	21.2054	0.525	2.476	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	567801.071	567801.07				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	192824.376	0.36	25.3705	0.199	0.786	ug/L
|	Tl	205	481991.424	0.89	25.6424	0.441	1.719	ug/L
|	Pb	206	166372.567	0.31	26.8260	0.196	0.730	ug/L
|	Pb	207	146095.578	0.27	25.0370	0.613	2.449	ug/L
|	Pb	208	681322.261	1.26	26.2904	0.433	1.648	ug/L
|	U	238	1012987.012	1.87	26.5941	0.212	0.797	ug/L
⌊>	Bi	209	540998.272	540998.27				ug/L

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⌈	Na	23	80524.490	0.20	0.0077	0.001	7.073	mg/L
|	Mg	24	7213.331	0.02	-0.0020	0.000	7.666	mg/L
|	K	39	524838.739	-0.12	-0.0091	0.000	2.575	mg/L
|	Ca	43	366.710	0.00	0.0094	0.002	25.097	mg/L
|	Fe	54	70807.115	0.08	0.0418	0.004	9.655	mg/L
|	Fe	57	6853.036	-0.00	-0.0034	0.001	34.338	mg/L
⌊>	Sc-1	45	298111.724	298111.72				mg/L
	Cl	35	64756100.493	64737084.42				mg/L
	Kr	83	46.001	-14.67				mg/L
	Br	81	9865.532	1255.16				mg/L
	P	31	14457.836	1061.93				mg/L
	S	34	210491.551	22510.57				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.041			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.686			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.904			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.009			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: L1102000240

Sample Date/Time: Tuesday, February 22, 2011 19:43:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 69
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28189.710	0.04				ug/L
|	Be	9	8712.463	0.03	34.7597	1.651	4.750	ug/L
|	Al	27	155889.129	0.53	26.2072	0.377	1.437	ug/L
|>	Sc	45	291660.376	291660.38				ug/L
⌈	Ti	49	4734.928	0.01	8.2672	0.231	2.797	ug/L
|	V	51	212764.761	0.48	23.8479	0.845	3.544	ug/L
|	Cr	52	214952.498	0.48	27.7347	0.126	0.455	ug/L
|	Cr	53	91532.998	0.21	102.5156	2.925	2.853	ug/L
|	Mn	55	310701.593	0.71	26.9816	0.583	2.162	ug/L
|	Co	59	259631.843	0.60	28.2007	0.630	2.234	ug/L
|	Ni	60	55281.945	0.13	28.7534	0.398	1.383	ug/L
|	Cu	65	57222.157	0.13	28.8008	0.243	0.842	ug/L
|	Zn	66	33595.676	0.08	28.2812	0.144	0.509	ug/L
|>	Ge	72	436237.914	436237.91				ug/L
|	As	75	21813.185	0.05	22.8033	0.904	3.963	ug/L
|	Se	77	4567.710	0.01	65.4681	0.276	0.422	ug/L
|	Se	82	1853.443	0.00	21.0092	0.867	4.129	ug/L
⌊	Rb	85	31.667	0.00				mg/L
	Y	89	257789.381	-89992.80				ug/L
	Rh	103	16.334	6.00				ug/L
⌈	Mo	98	208.351	0.00	0.0891	0.008	8.690	ug/L
|	Ag	107	114807.302	0.29	23.3914	0.529	2.263	ug/L
|	Cd	114	28941.972	0.07	24.9424	0.558	2.238	ug/L
|>	In	115	395979.468	395979.47				ug/L
|	Sn	118	486.145	0.00	0.0993	0.001	0.972	ug/L
⌊	Sb	123	97963.854	0.25	24.3297	0.364	1.498	ug/L
⌈	Ba	135	41439.109	0.07	21.8855	0.774	3.536	ug/L
|	Ce	140	56.673	0.00				ug/L
|>	Tb	159	561200.052	561200.05				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	193094.718	0.36	25.9060	0.458	1.768	ug/L
|	Tl	205	473161.524	0.89	25.6656	0.613	2.389	ug/L
|	Pb	206	166680.992	0.31	27.4050	0.493	1.800	ug/L
|	Pb	207	143080.174	0.27	25.0007	0.487	1.947	ug/L
|	Pb	208	668558.628	1.26	26.3033	0.301	1.146	ug/L
|	U	238	1014267.734	1.91	27.1450	0.163	0.599	ug/L
|>	Bi	209	530666.488	530666.49				ug/L

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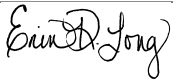

⌈	Na	23	65037.447	0.16	0.0052	0.000	4.742	mg/L
|	Mg	24	9398.698	0.03	-0.0014	0.000	7.152	mg/L
|	K	39	511309.718	-0.13	-0.0093	0.001	15.886	mg/L
|	Ca	43	373.378	0.00	0.0102	0.004	34.340	mg/L
|	Fe	54	73523.410	0.09	0.0490	0.010	19.587	mg/L
|	Fe	57	6412.700	-0.00	-0.0046	0.002	39.383	mg/L
⌊>	Sc-1	45	291660.376	291660.38				mg/L
	Cl	35	65188931.224	65169915.15				mg/L
	Kr	83	48.667	-12.00				mg/L
	Br	81	10606.290	1995.91				mg/L
	P	31	15347.839	1951.94				mg/L
	S	34	201567.297	13586.32				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.486			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.880			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.592			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		106.927			
⌈	Na	23					

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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102000240
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Method 6020 - Summary Report

Sample ID: L1101070708

Sample Date/Time: Tuesday, February 22, 2011 19:50:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 70
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22742.532	0.02				ug/L
|	Be	9	3195.845	0.01	12.0447	1.174	9.745	ug/L
|	Al	27	4843313.781	15.73	786.3247	64.788	8.239	ug/L
⌊>	Sc	45	308685.334	308685.33				ug/L
⌈	Ti	49	7426.840	0.02	11.6060	0.909	7.832	ug/L
|	V	51	102699.942	0.21	10.1437	0.210	2.075	ug/L
|	Cr	52	87884.708	0.16	9.5102	0.158	1.657	ug/L
|	Cr	53	17567.196	0.04	17.4649	1.142	6.539	ug/L
|	Mn	55	732024.459	1.50	56.8298	0.406	0.714	ug/L
|	Co	59	148327.800	0.30	14.3840	0.108	0.748	ug/L
|	Ni	60	27708.949	0.06	12.8710	0.284	2.208	ug/L
|	Cu	65	20276.071	0.04	9.0688	0.150	1.650	ug/L
|	Zn	66	43671.260	0.09	32.9309	0.194	0.590	ug/L
| >	Ge	72	488424.489	488424.49				ug/L
|	As	75	13877.033	0.03	13.0217	0.277	2.130	ug/L
|	Se	77	1912.850	0.00	23.8582	0.664	2.781	ug/L
|	Se	82	2205.209	0.00	22.3276	1.029	4.610	ug/L
⌊	Rb	85	16627.646	0.03				mg/L
	Y	89	308995.508	-38786.68				ug/L
	Rh	103	11.000	0.67				ug/L
⌈	Mo	98	21705.981	0.05	8.2563	0.229	2.774	ug/L
|	Ag	107	27584.938	0.07	5.5547	0.135	2.434	ug/L
|	Cd	114	14869.725	0.04	12.6593	0.551	4.351	ug/L
| >	In	115	400587.214	400587.21				ug/L
|	Sn	118	55411.548	0.14	13.0394	0.119	0.914	ug/L
⌊	Sb	123	93625.411	0.23	22.9835	0.129	0.563	ug/L
⌈	Ba	135	53624.941	0.10	29.2234	0.523	1.789	ug/L
|	Ce	140	69336.482	0.13				ug/L
⌊>	Tb	159	543591.609	543591.61				ug/L
⌈	Ho	165	660.088	0.00				ug/L
|	Tl	203	182086.427	0.33	23.7288	0.403	1.697	ug/L
|	Tl	205	439557.429	0.80	23.1625	1.260	5.441	ug/L
|	Pb	206	89817.256	0.16	14.3110	0.564	3.939	ug/L
|	Pb	207	80606.086	0.15	13.6570	0.153	1.122	ug/L
|	Pb	208	369576.937	0.67	14.0960	0.154	1.096	ug/L
|	U	238	3569.673	0.01	0.0913	0.003	3.369	ug/L
⌊>	Bi	209	546188.991	546188.99				ug/L

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⌈	Na	23	434175.157	1.34	0.0682	0.004	6.012	mg/L
|	Mg	24	1134478.437	3.68	0.3057	0.012	4.048	mg/L
|	K	39	2094538.149	4.92	0.1718	0.014	8.122	mg/L
|	Ca	43	21351.592	0.07	1.0976	0.034	3.055	mg/L
|	Fe	54	1160592.820	3.61	1.7585	0.109	6.215	mg/L
|	Fe	57	472706.496	1.51	1.7929	0.153	8.525	mg/L
⌊>	Sc-1	45	308685.334	308685.33				mg/L
	Cl	35	1750561.636	1731545.57				mg/L
	Kr	83	46.001	-14.67				mg/L
	Br	81	7198.595	-1411.78				mg/L
	P	31	16828.153	3432.25				mg/L
	S	34	201199.602	13218.62				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.474			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.054			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.090			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.055			
⌈	Na	23					

Sample ID: L1101070708
Report Date/Time: Tuesday, February 22, 2011 19:52:15
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	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1101070708
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Approved: February 23, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 22, 2011 19:56:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23945.573	0.02				ug/L
|	Be	9	15806.492	0.05	59.0827	2.025	3.427	ug/L
|	Al	27	317911.705	1.01	50.5348	1.891	3.743	ug/L
⌊>	Sc	45	311321.812	311321.81				ug/L
⌈	Ti	49	65037.595	0.14	103.6274	4.449	4.293	ug/L
|	V	51	506697.126	1.05	51.9003	1.288	2.482	ug/L
|	Cr	52	436636.602	0.89	52.0333	1.789	3.438	ug/L
|	Cr	53	52737.303	0.11	53.6105	1.253	2.337	ug/L
|	Mn	55	640399.780	1.33	50.5751	0.437	0.864	ug/L
|	Co	59	532570.696	1.11	52.5755	0.616	1.172	ug/L
|	Ni	60	111394.917	0.23	52.6574	1.266	2.404	ug/L
|	Cu	65	114194.141	0.24	52.2838	0.329	0.628	ug/L
|	Zn	66	67106.765	0.14	51.8159	0.986	1.903	ug/L
|>	Ge	72	480086.752	480086.75				ug/L
|	As	75	51080.383	0.11	48.3503	0.282	0.583	ug/L
|	Se	77	3852.742	0.01	49.9573	1.860	3.724	ug/L
|	Se	82	4724.447	0.01	48.6411	0.914	1.879	ug/L
⌊	Rb	85	1973.548	0.00				mg/L
	Y	89	301131.571	-46650.61				ug/L
	Rh	103	28.667	18.33				ug/L
⌈	Mo	98	243871.956	0.61	93.5706	0.580	0.620	ug/L
|	Ag	107	244858.144	0.62	49.7824	0.073	0.148	ug/L
|	Cd	114	58968.469	0.15	50.7256	2.401	4.733	ug/L
|>	In	115	396836.284	396836.28				ug/L
|	Sn	118	204156.837	0.51	48.5473	0.589	1.214	ug/L
⌊	Sb	123	200103.926	0.50	49.5966	0.869	1.753	ug/L
⌈	Ba	135	85111.517	0.15	45.8857	0.231	0.502	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	549329.133	549329.13				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	388951.343	0.72	50.9428	0.257	0.504	ug/L
|	Tl	205	931960.523	1.71	49.3403	0.961	1.947	ug/L
|	Pb	206	308261.088	0.57	49.5310	0.288	0.582	ug/L
|	Pb	207	291762.974	0.54	49.8186	0.576	1.156	ug/L
|	Pb	208	1316173.478	2.42	50.6109	0.236	0.465	ug/L
|	U	238	1994751.173	3.67	52.1286	0.723	1.388	ug/L
⌊>	Bi	209	543497.199	543497.20				ug/L

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Na	23	30011841.072	96.33	5.1160	0.216	4.225	mg/L
Mg	24	18762697.040	60.27	5.0678	0.022	0.437	mg/L
K	39	45057661.781	142.85	5.1250	0.115	2.241	mg/L
Ca	43	97348.050	0.31	4.9934	0.104	2.076	mg/L
Fe	54	3254659.173	10.29	5.0092	0.060	1.200	mg/L
Fe	57	1322697.663	4.22	5.0127	0.101	2.007	mg/L
> Sc-1	45	311321.812	311321.81				mg/L
Cl	35	61182.607	42166.54				mg/L
Kr	83	46.667	-14.00				mg/L
Br	81	7356.038	-1254.34				mg/L
P	31	11594.780	-1801.12				mg/L
S	34	231614.183	43633.21				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.801				
Cr	52	104.067				
Cr	53					
Mn	55	101.150				
Co	59	105.151				
Ni	60	105.315				
Cu	65	104.568				
Zn	66	103.632				
> Ge	72		91.878			
As	75	96.701				
Se	77					
Se	82	97.282				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.565				
Cd	114	101.451				
> In	115		101.098			
Sn	118					
Sb	123	99.193				
Ba	135	91.771				
Ce	140					
> Tb	159		109.231			
Ho	165					
Tl	203	101.886				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.222				
U	238	104.257				
> Bi	209		109.513			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 19:59:02

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Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, February 22, 2011 19:59:02
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Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 22, 2011 20:04:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22709.132	0.01				ug/L
|	Be	9	6.000	0.00	-0.0330	0.014	43.713	ug/L
|	Al	27	3967.455	0.00	0.1101	0.035	31.985	ug/L
⌊>	Sc	45	315087.876	315087.88				ug/L
⌈	Ti	49	83.342	0.00	0.0911	0.080	88.297	ug/L
|	V	51	1647.638	-0.00	-0.0777	0.008	9.948	ug/L
|	Cr	52	7639.328	-0.00	-0.0597	0.020	33.993	ug/L
|	Cr	53	3420.929	0.01	3.3001	0.250	7.581	ug/L
|	Mn	55	342.343	0.00	-0.0154	0.001	6.060	ug/L
|	Co	59	62.334	0.00	-0.0028	0.001	25.788	ug/L
|	Ni	60	44.334	-0.00	0.0146	0.001	6.189	ug/L
|	Cu	65	107.668	0.00	-0.0205	0.008	36.724	ug/L
|	Zn	66	588.690	0.00	-0.1316	0.014	11.005	ug/L
|>	Ge	72	486057.163	486057.16				ug/L
|	As	75	-139.237	0.00	0.0224	0.030	133.527	ug/L
|	Se	77	86.667	0.00	0.1376	0.130	94.708	ug/L
|	Se	82	2.252	0.00	0.0397	0.097	243.511	ug/L
⌊	Rb	85	18.667	-0.00				mg/L
	Y	89	312888.544	-34893.64				ug/L
	Rh	103	5.667	-4.67				ug/L
⌈	Mo	98	126.162	0.00	0.0573	0.010	17.983	ug/L
|	Ag	107	27.334	-0.00	0.0026	0.000	18.640	ug/L
|	Cd	114	-3.071	-0.00	-0.0094	0.003	27.595	ug/L
|>	In	115	398125.742	398125.74				ug/L
|	Sn	118	342.006	0.00	0.0645	0.004	6.264	ug/L
⌊	Sb	123	66.409	0.00	0.0115	0.001	6.889	ug/L
⌈	Ba	135	24.334	0.00	0.0265	0.002	7.718	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	547660.388	547660.39				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	320.675	0.00	0.0393	0.004	9.636	ug/L
|	Tl	205	730.100	0.00	0.0472	0.007	15.796	ug/L
|	Pb	206	477.350	0.00	0.0071	0.007	91.569	ug/L
|	Pb	207	385.678	0.00	0.0117	0.004	37.550	ug/L
|	Pb	208	1845.419	0.00	0.0074	0.004	59.171	ug/L
|	U	238	89.001	0.00	0.0007	0.001	76.188	ug/L
⌊>	Bi	209	550887.913	550887.91				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 20:06:16
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Approved: February 23, 2011

⌈	Na	23	21762.513	0.00	-0.0030	0.000	4.008	mg/L
|	Mg	24	616.748	0.00	-0.0039	0.000	0.674	mg/L
|	K	39	546647.328	-0.15	-0.0100	0.001	10.006	mg/L
|	Ca	43	240.027	-0.00	0.0018	0.002	119.644	mg/L
|	Fe	54	45610.442	-0.02	-0.0033	0.003	102.781	mg/L
|	Fe	57	6839.691	-0.01	-0.0049	0.001	21.477	mg/L
⌊>	Sc-1	45	315087.876	315087.88				mg/L
	Cl	35	49265.067	30249.00				mg/L
	Kr	83	47.667	-13.00				mg/L
	Br	81	7411.414	-1198.96				mg/L
	P	31	10724.416	-2671.49				mg/L
	S	34	223663.631	35682.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.021			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.427			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.899			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		111.002			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 20:06:16
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Approved: February 23, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, February 22, 2011 20:06:16
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Approved: February 23, 2011

2.2.3 Metals CVAA Data (Mercury)

2.2.3.1 Summary Data

Login Number: L11020447

Department: Metals - AA

Analyst: Pierce Morris

METHOD

Preparation: SW-846 7470/7471

Analysis: SW-846 7470/7471

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG356943 - All acceptance criteria were met.

WG356988 - All acceptance criteria were met.

Matrix Spikes: WG356943 - Sample 01 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) met all acceptance criteria.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 21694
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11020447

03/01/11 15:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SITE #1-TPS-2-16-11-COMP	L11020447-01	7471A	1	17-FEB-11
SITE #1-2-16-11-DUP	L11020447-02	7471A	1	17-FEB-11
SITE #1-2-16-11-MS	L11020447-03	7471A	1	17-FEB-11
SITE #1-2-16-11-MSD	L11020447-04	7471A	1	17-FEB-11
SITE #1-2-16-11-FB	L11020447-05	7470A	1	17-FEB-11
SITE #1-2-16-11-CLAY-C	L11020447-06	7471A	1	17-FEB-11
SITE #1-2-16-11-CLAY-C-2	L11020447-07	7471A	1	17-FEB-11

Microbac Laboratories Inc.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	**L11020447-01**	PrePrep Method:	**NONE**	Instrument:	**HYDRA**
Client ID:	**SITE #1-TPS-2-16-11-COMP**	Prep Method:	**7471A**	Prep Date:	**02/18/2011 06:16**
Matrix:	**Soil**	Analytical Method:	**7471A**	Cal Date:	**02/18/2011 08:50**
Workgroup Number:	**WG356943**	Analyst:	**PDM**	Run Date:	**02/18/2011 09:14**
Collect Date:	**02/16/2011 11:20**	Dilution:	**1**	File ID:	**HY.021811.091441**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**84.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	**7439-97-6**	**0.0266**	**J**	**0.293**	**0.0117**

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-02	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	SITE #1-2-16-11-DUP	Prep Method:	7471A	Prep Date:	02/18/2011 06:17
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	02/18/2011 08:47
Workgroup Number:	WG356943	Analyst:	PDM	Run Date:	02/18/2011 09:22
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	HY.021811.092205
Sample Tag:	01	Units:	mg/kg	Percent Solid:	85.5

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.0259	J	0.290	0.0116

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-03	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	SITE #1-2-16-11-MS	Prep Method:	7471A	Prep Date:	02/18/2011 06:14
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	02/18/2011 08:52
Workgroup Number:	WG356943	Analyst:	PDM	Run Date:	02/18/2011 09:24
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	HY.021811.092400
Sample Tag:	01	Units:	mg/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.311		0.293	0.0117

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-04	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	SITE #1-2-16-11-MSD	Prep Method:	7471A	Prep Date:	02/18/2011 06:14
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	02/18/2011 08:52
Workgroup Number:	WG356943	Analyst:	PDM	Run Date:	02/18/2011 09:25
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	HY.021811.092544
Sample Tag:	01	Units:	mg/kg	Percent Solid:	84.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.318		0.293	0.0117

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-05	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	SITE #1-2-16-11-FB	Prep Method:	7470A	Prep Date:	02/18/2011 11:14
Matrix:	Water	Analytical Method:	7470A	Cal Date:	
Workgroup Number:	WG356988	Analyst:	PDM	Run Date:	02/18/2011 14:07
Collect Date:	02/16/2011 12:20	Dilution:	1	File ID:	HY.021811.140758
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury	7439-97-6		U	0.000200	0.000100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-06	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	SITE #1-2-16-11-CLAY-C	Prep Method:	7471A	Prep Date:	02/18/2011 06:18
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	02/18/2011 08:52
Workgroup Number:	WG356943	Analyst:	PDM	Run Date:	02/18/2011 09:27
Collect Date:	02/16/2011 12:40	Dilution:	1	File ID:	HY.021811.092730
Sample Tag:	01	Units:	mg/kg	Percent Solid:	81.7

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.112	J	0.293	0.0117

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-07	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	SITE #1-2-16-11-CLAY-C-2	Prep Method:	7471A	Prep Date:	02/18/2011 06:19
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	02/18/2011 08:52
Workgroup Number:	WG356943	Analyst:	PDM	Run Date:	02/18/2011 09:29
Collect Date:	02/16/2011 12:45	Dilution:	1	File ID:	HY.021811.092915
Sample Tag:	01	Units:	mg/kg	Percent Solid:	78.9

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury, Total	7439-97-6	0.122	J	0.305	0.0122

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

2.2.3.2 QC Summary

Example Cold Vapor Mercury Calculations
Hydra AA Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and five standards.

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to Volume (mL)	40
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Ws} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to volume (mL)	40
Ws = Aliquot weight (g)	0.6
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	6.67

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

1 Cx = Concentration calculated as received (wet basis)	6.67
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	8.33

8.33 ug/kg = 0.00833 mg/kg

TCLP Non-Volatile

Analyst(s): Rac
Date: 02-17-11
Filter Lot #: H1136897 9

Agitator Speed 30 ± 2 rpm ☑

Analyst/Date		Analyst/Date	
Rac 2-17-11		Rac 2-18-11	
Time On	Temp On °C	Time Off	Temp Off °C
1500	23	0700	23

Jug #	Sample #	Tests	Method	Fluid #	Matrix*	%Solid	Size Reduction Yes	Size Reduction No	Int. Wt. (g)	Fluid Vol. (mL)
G13	02-357-01	ME SV	1311	F1-813	S/S	100		✓	100.00	2000
G9	02-358-01	1 (Spk)			1			✓	100.06	
G29	02-373-01	1 Herb			S			✓	100.07	
G14	02-378-01	PST 1			S		✓		100.01	
D	02-382-02	ME			S			✓	100.04	
D	02-387-01			1	S/S			✓	100.00	
D	02-438-01			F2-271	S	1		✓	100.08	
N/A	FBLK(1)	PEST HERB		F1-813	N/A	N/A		✓	2000	
1	FBLK(2)	1	1	F2-271	1	1		✓	1	1

Rac 2-17-11

*Matrix Code = (S-solid) (SS-sand, soil or sludge) (P-paint) (O-organic) (W-water or waste)
Agitator speed is 30 ± 2 rpm unless otherwise noted.

Comments: _____

Peer Review By: _____ Supervisor Review: _____

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG356893
Analyst: REK
Spike Analyst: REK
Method: 7471A
Run Date: 02/18/2011 06:19
Hotblock Start Temp: 93.9 @ 06:30
Hotblock End Temp: 95.9 @ 07:00

SOP: ME405 Revison 10
Spike Solution: STD44019
Spike Witness: VC
HNO3 Lot #: COA15168
HCL Lot #: COA15185
Digestion Tubes Lot #: COA15251
KMnO4 1:1 Lot #: RGT15577
HG SOIL STD 10PPM Lot #: STD44026
HG SOILS ICV Lot #: STD44027

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG356893-02	BLANK	7	.6 g	40 mL		
2	WG356893-03	LCS	7	.6 g	40 mL	4 mL	
3	L11020382-01	SAMP	10	.6 g	40 mL		02/25/11
4	WG356893-01	REF	7	.61 g	40 mL		
5	L11020447-01	RS01	7	.61 g	40 mL		02/24/11
6	L11020447-02	SAMP	7	.604 g	40 mL		02/24/11
7	WG356893-04	MS	7	.61 g	40 mL	4 mL	
8	L11020447-03	MS01	7	.61 g	40 mL	4 mL	02/24/11
9	WG356893-05	MSD	7	.61 g	40 mL	4 mL	
10	L11020447-04	SD01	7	.61 g	40 mL	4 mL	02/24/11
11	L11020447-06	SAMP	7	.628 g	40 mL		02/24/11
12	L11020447-07	SAMP	7	.624 g	40 mL		02/24/11

Analyst:

Reviewer: Brenda Gregory

HB_DIG - Modified 09/30/2009
PDF ID: 1922552
Report generated: 02/18/2011 08:02

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG356968
Analyst: VC
Spike Analyst: VC
Method: 7470A
Run Date: 02/18/2011 11:14
Hotblock Start Temp: 94.5 @ 09:28
Hotblock End Temp: 95 @ 11:28

SOP: ME404 Revison 12
Spike Solution: STD44019
Spike Witness: ERP
H2SO4 Lot #: COA14202
Digestion Tubes Lot #: COA15251
HNO3 Lot #: COA15168
K2S2O8 1:1 Lot #: RGT15459
KMnO4 1:1 Lot #: RGT15577
Mercury QA/ICV Spike Lot: STD44028
HG H2O STDS 10PPM Lot #: STD44036

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG356968-02	BLANK	1	40 mL	40 mL		
2	WG356907-01	FBLK1	17	4 mL	40 mL		
3	WG356907-02	FBLK2	17	4 mL	40 mL		
4	WG356968-03	LCS	1	40 mL	40 mL	4 mL	
5	L11020357-01	SAMP	17	4 mL	40 mL		02/25/11
6	L11020358-01	SAMP	17	4 mL	40 mL		02/22/11
7	L11020382-02	SAMP	17	4 mL	40 mL		02/25/11
8	WG356968-01	REF	17	4 mL	40 mL		
9	L11020438-01	SAMP	17	4 mL	40 mL		02/22/11
10	L11020439-01	SAMP	12	1 mL	40 mL		02/25/11
11	L11020447-05	SAMP	1	40 mL	40 mL		02/24/11
12	WG356968-04	MS	1	40 mL	40 mL	4 mL	
13	WG356968-05	MSD	1	40 mL	40 mL	4 mL	

Analyst: Vicki Collins

Reviewer: Erin Potter

HB_DIG - Modified 09/30/2009
PDF ID: 1923184
Report generated: 02/18/2011 12:36

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 021811A.PRN
Analyst1: PDM Analyst2: N/A
Method: 7471 SOP: ME405 Rev: 10
Maintenance Log ID: 36481

Calibration Std: STD44026 ICV Std: STD44027 Post Spike: STD44026
ICSA: N/A ICSAB: N/A Int. Std:
CCV: LLCCV:

356943
Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.021811.084346	WG356980-01	Calibration Point		1		02/18/11 08:43
2	HY.021811.084528	WG356980-02	Calibration Point		1		02/18/11 08:45
3	HY.021811.084712	WG356980-03	Calibration Point		1		02/18/11 08:47
4	HY.021811.084859	WG356980-04	Calibration Point		1		02/18/11 08:48
5	HY.021811.085047	WG356980-05	Calibration Point		1		02/18/11 08:50
6	HY.021811.085230	WG356980-06	Calibration Point		1		02/18/11 08:52
7	HY.021811.085413	WG356980-07	Initial Calibration Verification		1		02/18/11 08:54
8	HY.021811.085556	WG356980-08	Initial Calib Blank		1		02/18/11 08:55
9	HY.021811.085739	WG356980-09	CCV		1		02/18/11 08:57
10	HY.021811.085941	WG356980-10	CCB		1		02/18/11 08:59
11	HY.021811.090439	WG356893-02	Method/Prep Blank	.6/40	1		02/18/11 09:04
12	HY.021811.090632	WG356893-03	Laboratory Control S	.6/40	1		02/18/11 09:06
13	HY.021811.090815	L11020382-01	21511-BB		100		02/18/11 09:08
14	HY.021811.091056	L11020382-01	21511-BB	.6/40	1		02/18/11 09:10
15	HY.021811.091247	WG356943-01	Post Digestion Spike		1	L11020382-01	02/18/11 09:12
16	HY.021811.091441	WG356893-01	Reference Sample	.61/40	1	L11020447-01	02/18/11 09:14
17	HY.021811.091633	WG356980-11	CCV		1		02/18/11 09:16
18	HY.021811.091818	WG356980-12	CCB		1		02/18/11 09:18
19	HY.021811.092011	WG356943-02	Post Digestion Spike		1	L11020447-01	02/18/11 09:20
20	HY.021811.092205	L11020447-02	SITE \#1-2-16-11-DUP	.604/40	1		02/18/11 09:22
21	HY.021811.092400	L11020447-03	SITE \#1-2-16-11-MS	.61/40	1	WG356893-04	02/18/11 09:24
22	HY.021811.092544	L11020447-04	SITE \#1-2-16-11-MSD	.61/40	1	WG356893-05	02/18/11 09:25
23	HY.021811.092730	L11020447-06	SITE \#1-2-16-11-CLAY-C	.628/40	1		02/18/11 09:27
24	HY.021811.092915	L11020447-07	SITE \#1-2-16-11-CLAY-C-2	.624/40	1		02/18/11 09:29
25	HY.021811.093059	WG356980-13	CCV		1		02/18/11 09:30
26	HY.021811.093242	WG356980-14	CCB		1		02/18/11 09:32

Comments

Seq.	Rerun	Dil.	Reason	Analytes
13			Initially analyzed at a dilution due to historically high concentrations of mercury. Sample reanalyzed at no dilution at 09:10	

Page: 1 Approved: February 21, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 021811B.PRN
Analyst1: PDM Analyst2: N/A
Method: 7470 SOP: ME404 Rev: 12
Maintenance Log ID: 36481

Calibration Std: STD44036 ICV Std: STD44028 Post Spike: STD44036
ICSA: N/A ICSAB: N/A Int. Std:
CCV: LLCCV:

356988
Workgroups:

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.021811.132036	WG357000-01	Calibration Point		1		02/18/11 13:20
2	HY.021811.132220	WG357000-02	Calibration Point		1		02/18/11 13:22
3	HY.021811.132402	WG357000-03	Calibration Point		1		02/18/11 13:24
4	HY.021811.132555	WG357000-04	Calibration Point		1		02/18/11 13:25
5	HY.021811.132738	WG357000-05	Calibration Point		1		02/18/11 13:27
6	HY.021811.132941	WG357000-06	Calibration Point		1		02/18/11 13:29
7	HY.021811.133127	WG357000-07	Initial Calibration Verification		1		02/18/11 13:31
8	HY.021811.133339	WG357000-08	Initial Calib Blank		1		02/18/11 13:33
9	HY.021811.133524	WG357000-09	CCV		1		02/18/11 13:35
10	HY.021811.133721	WG357000-10	CCB		1		02/18/11 13:37
11	HY.021811.133926	WG356968-02	Method/Prep Blank	40/40	1		02/18/11 13:39
12	HY.021811.134124	WG356968-03	Laboratory Control S	40/40	1		02/18/11 13:41
13	HY.021811.134338	WG356907-01	TCLP Fluid Blank 1		1		02/18/11 13:43
14	HY.021811.134553	WG356907-02	TCLP Fluid Blank 2		1		02/18/11 13:45
15	HY.021811.134735	L11020357-01	B156-S-021011	4/40	1		02/18/11 13:47
16	HY.021811.134928	WG356988-01	Post Digestion Spike		1	L11020357-01	02/18/11 13:49
17	HY.021811.135140	L11020358-01	SOIL-021011	4/40	1		02/18/11 13:51
18	HY.021811.135324	L11020382-02	21511-BB	4/40	1		02/18/11 13:53
19	HY.021811.135508	WG357000-11	CCV		1		02/18/11 13:55
20	HY.021811.135654	WG357000-12	CCB		1		02/18/11 13:56
21	HY.021811.135858	WG356968-01	Reference Sample	4/40	1	L11020438-01	02/18/11 13:58
22	HY.021811.140053	WG356968-04	Matrix Spike	40/40	1	L11020438-01	02/18/11 14:00
23	HY.021811.140248	WG356968-05	Matrix Spike Duplica	40/40	1	L11020438-01	02/18/11 14:02
24	HY.021811.140433	L11020439-01	24451 WW SLUDGE	1/40	1		02/18/11 14:04
25	HY.021811.140615	WG356988-02	Post Digestion Spike		1	L11020439-01	02/18/11 14:06
26	HY.021811.140758	L11020447-05	SITE \#1-2-16-11-FB	40/40	1		02/18/11 14:07
27	HY.021811.140950	WG356988-03	Post Digestion Spike		1	L11020447-05	02/18/11 14:09
28	HY.021811.141326	FBLK	FBLK		1		02/18/11 14:13
29	HY.021811.141508	WG357000-13	CCV		1		02/18/11 14:15
30	HY.021811.141700	WG357000-14	CCB		1		02/18/11 14:17

Page: 1 Approved: February 22, 2011

Sheri L. Babgard

Microbac

Microbac Laboratories Inc.

Data Checklist

Date: 18-FEB-2011
Analyst: PDM
Analyst: NA
Method: 7471
Instrument: HYDRA
Curve Workgroup: 356980
Runlog ID: 39095
Analytical Workgroups: 356943

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0447
Client Forms	X
Level X	
Level 3	
Level 4	0447
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
18-FEB-2011
Pierce Morris

Secondary Reviewer:
21-FEB-2011
Maren Berry

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-21-2011 11:20:51

Microbac Laboratories Inc.

Data Checklist

Date: 18-FEB-2011
Analyst: PDM
Analyst: NA
Method: 7470
Instrument: HYDRA
Curve Workgroup: 357000
Runlog ID: 39106
Analytical Workgroups: 356988

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0357,0358,0439,0447
Client Forms	X
Level X	
Level 3	
Level 4	0447
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
21-FEB-2011
Pierce Morris

Secondary Reviewer:
22-FEB-2011
Sheri L. Babcock

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-22-2011 15:55:25

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 7471A

AAB#: WG356943

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-TPS-2-16-11-COM	01	02/16/11					02/18/11	1.8	28		02/18/11	1.9	28	
SITE #1-2-16-11-DUP	02	02/16/11					02/18/11	1.8	28		02/18/11	1.9	28	
SITE #1-2-16-11-MS	03	02/16/11					02/18/11	1.8	28		02/18/11	1.9	28	
SITE #1-2-16-11-MSD	04	02/16/11					02/18/11	1.8	28		02/18/11	1.9	28	
SITE #1-2-16-11-CLAY-C	06	02/16/11					02/18/11	1.7	28		02/18/11	1.9	28	
SITE #1-2-16-11-CLAY-C-	07	02/16/11					02/18/11	1.7	28		02/18/11	1.9	28	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1923223
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 7470A AAB#: WG356988

Login Number: L11020447

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SITE #1-2-16-11-FB	05	02/16/11					02/18/11	2	28		02/18/11	2.1	28	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1923223
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020447
Work Group: WG356943
Blank File ID: HY.021811.090439
Blank Sample ID: WG356893-02
Prep Date: 02/18/11 06:19
Instrument ID: HYDRA
Analyzed Date: 02/18/11 09:04
Method: 7471A
Analyst: PDM

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356893-03	HY.021811.090632	02/18/11 09:06	01
SITE #1-TPS-2-16-11-COMP	L11020447-01	HY.021811.091441	02/18/11 09:14	01
SITE #1-2-16-11-DUP	L11020447-02	HY.021811.092205	02/18/11 09:22	01
SITE #1-2-16-11-MS	L11020447-03	HY.021811.092400	02/18/11 09:24	01
SITE #1-2-16-11-MSD	L11020447-04	HY.021811.092544	02/18/11 09:25	01
SITE #1-2-16-11-CLAY-C	L11020447-06	HY.021811.092730	02/18/11 09:27	01
SITE #1-2-16-11-CLAY-C-2	L11020447-07	HY.021811.092915	02/18/11 09:29	01

Report Name: BLANK_SUMMARY
PDF File ID: 1923224
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11020447	Work Group:	WG356988
Blank File ID:	HY.021811.133926	Blank Sample ID:	WG356968-02
Prep Date:	02/18/11 11:14	Instrument ID:	HYDRA
Analyzed Date:	02/18/11 13:39	Method:	7470A
Analyst:	PDM		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG356968-03	HY.021811.134124	02/18/11 13:41	01
SITE #1-2-16-11-FB	L11020447-05	HY.021811.140758	02/18/11 14:07	01

Report Name: BLANK_SUMMARY
PDF File ID: 1923224
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/18/11 06:19 Sample ID: WG356893-02
Instrument ID: HYDRA Run Date: 02/18/11 09:04 Prep Method: 7471A
File ID: HY.021811.090439 Analyst: PDM Method: 7471A
Workgroup (AAB#): WG356943 Matrix: Soil Units: mg/kg
Contract #: Cal ID: HYDRA-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Mercury, Total	0.0100	0.250	0.0100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1923225
22-FEB-2011 16:00

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020447 Prep Date: 02/18/11 11:14 Sample ID: WG356968-02
Instrument ID: HYDRA Run Date: 02/18/11 13:39 Prep Method: 7470A
File ID: HY.021811.133926 Analyst: PDM Method: 7470A
Workgroup (AAB#): WG356988 Matrix: Water Units: mg/L
Contract #: Cal ID: HYDRA-18-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Mercury	0.000100	0.000200	0.000100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1923225
22-FEB-2011 16:00

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356893-03
Instrument ID: HYDRA Run Time: 09:06 Prep Method: 7471A
File ID: HY.021811.090632 Analyst: PDM Method: 7471A
Workgroup (AAB#): WG356943 Matrix: Soil Units: mg/kg
QC Key: DOD4 Lot#: STD44019 Cal ID: HYDRA-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury, Total	0.267	0.299	112	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1923226
Report generated: 02/22/2011 16:00

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356968-03
Instrument ID: HYDRA Run Time: 13:41 Prep Method: 7470A
File ID: HY.021811.134124 Analyst: PDM Method: 7470A
Workgroup (AAB#): WG356988 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD44019 Cal ID: HYDRA-18-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury	0.00400	0.00423	106	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1923226
Report generated: 02/22/2011 16:00

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L11020447 Cal ID:HYDRA- 18-FEB-11 Worknum:WG356943
Instrument ID:HYDRA Contract #: Prep Method:7471A
Parent ID:L11020447-01 File ID:HY.021811.091441 Dil:1 Method:7471A
Sample ID:L11020447-03 MS File ID:HY.021811.092400 Dil:1 Matrix:Soil
Sample ID:L11020447-04 MSD File ID:HY.021811.092544 Dil:1 Units:mg/kg
Percent Solid:84.0

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury, Total	0.0266	0.312	0.311	91	0.312	0.318	93.2	2.24	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
PDF File ID: 1923227
Report generated 02/23/2011 16:25

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11020447 Cal ID:HYDRA- Worknum:WG356988
Instrument ID:HYDRA Contract #: Method:7470A
Parent ID:WG356968-01 File ID:HY.021811.135858 Dil:1 Matrix:WATER
Sample ID:WG356968-04 MS File ID:HY.021811.140053 Dil:1 Units:mg/L
Sample ID:WG356968-05 MSD File ID:HY.021811.140248 Dil:1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury	0.000210	0.00400	0.00449	107	0.00400	0.00447	107	0.446	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID:1923228
Report generated 02/23/2011 16:25

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020447 **Worknum:** WG356943
Instrument ID: HYDRA **Method:** 7471A
Post Spike ID: WG356943-02 **File ID:** HY.021811.092011 **Dil:** 1 **Units:** ug/L
Sample ID: L11020447-01 **File ID:** HY.021811.091441 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
MERCURY	1.33	F	0.341	F	1	102.3	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1923222
Report generated: 02/22/2011 16:00

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020447 **Worknum:** WG356988
Instrument ID: HYDRA **Method:** 7470A
Post Spike ID: WG356988-03 **File ID:** HY.021811.140950 **Dil:** 1 **Units:** ug/L
Sample ID: L11020447-05 **File ID:** HY.021811.140758 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
MERCURY	1.01		0	U	1	101.0	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1923222
Report generated: 02/22/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447
Analytical Method: 7471A
ICAL Worknum: WG356980

Workgroup (AAB#): WG356943
Instrument ID: HYDRA
Initial Calibration Date: 02/18/2011 08:52

Analyte	WG356980-01		WG356980-02		WG356980-03		WG356980-04		WG356980-05		WG356980-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Mercury	0	80	0.200	810	1.00	3889	2.00	7541	5.00	19520	10.0	38661

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1923229
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447
Analytical Method: 7471A
ICAL Worknum: WG356980

Workgroup (AAB#): WG356943
Instrument ID: HYDRA
Initial Calibration Date: 02/18/2011 08:52

Analyte	R	Q
Mercury	1.000	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1923229
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447
Analytical Method: 7470A
ICAL Worknum: WG357000

Workgroup (AAB#): WG356988
Instrument ID: HYDRA
Initial Calibration Date: 02/18/2011 13:29

Analyte	WG357000-01		WG357000-02		WG357000-03		WG357000-04		WG357000-05		WG357000-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Mercury	0	165	0.200	840	1.00	3469	2.00	6682	5.00	16533	10.0	33404

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1923229
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L11020447
Analytical Method: 7470A
ICAL Worknum: WG357000

Workgroup (AAB#): WG356988
Instrument ID: HYDRA
Initial Calibration Date: 02/18/2011 13:29

Analyte	R	Q
Mercury	1.000	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1923229
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356980-08
Instrument ID: HYDRA Run Time: 08:55 Method: 7471A
File ID: HY.021811.085556 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG356943 Cal ID: HYDRA - 18-FEB-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
MERCURY	.15	3.75	.15	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1923231
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357000-08
Instrument ID: HYDRA Run Time: 13:33 Method: 7470A
File ID: HY.021811.133339 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG356988 Cal ID: HYDRA - 18-FEB-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
MERCURY	.1	.2	.1	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1923231
Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/18/2011	Sample ID:	WG356980-10
Instrument ID:	HYDRA	Run Time:	08:59	Method:	7471A
File ID:	HY.021811.085941	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG356943	Cal ID:	HYDRA - 18-FEB-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1923233
Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/18/2011	Sample ID:	WG356980-12
Instrument ID:	HYDRA	Run Time:	09:18	Method:	7471A
File ID:	HY.021811.091818	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG356943	Cal ID:	HYDRA - 18-FEB-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1923233
Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/18/2011	Sample ID:	WG356980-14
Instrument ID:	HYDRA	Run Time:	09:32	Method:	7471A
File ID:	HY.021811.093242	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG356943	Cal ID:	HYDRA - 18-FEB-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1923233
Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/18/2011	Sample ID:	WG357000-10
Instrument ID:	HYDRA	Run Time:	13:37	Method:	7470A
File ID:	HY.021811.133721	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG356988	Cal ID:	HYDRA - 18-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1923233
Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/18/2011	Sample ID:	WG357000-12
Instrument ID:	HYDRA	Run Time:	13:56	Method:	7470A
File ID:	HY.021811.135654	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG356988	Cal ID:	HYDRA - 18-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1923233
Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020447	Run Date:	02/18/2011	Sample ID:	WG357000-14
Instrument ID:	HYDRA	Run Time:	14:17	Method:	7470A
File ID:	HY.021811.141700	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG356988	Cal ID:	HYDRA - 18-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1923233
Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356980-07

Instrument ID: HYDRA Run Time: 08:54 Method: 7471A

File ID: HY.021811.085413 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG356943 Cal ID: HYDRA - 18-FEB-11

QC Key: DOD4

Analyte	Expected	Found	%REC	LIMITS	Q
Mercury	2	2.07	104	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1923230

Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357000-07

Instrument ID: HYDRA Run Time: 13:31 Method: 7470A

File ID: HY.021811.133127 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG356988 Cal ID: HYDRA - 18-FEB-11

QC Key: DOD4

Analyte	Expected	Found	%REC	LIMITS	Q
Mercury	2	2.08	104	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1923230

Report generated 02/22/2011 16:00

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356980-09

Instrument ID: HYDRA Run Time: 08:57 Method: 7471A

File ID: HY.021811.085739 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356943 Cal ID: HYDRA - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00206	mg/L	103	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923232

Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356980-11

Instrument ID: HYDRA Run Time: 09:16 Method: 7471A

File ID: HY.021811.091633 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356943 Cal ID: HYDRA - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00215	mg/L	108	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923232

Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG356980-13

Instrument ID: HYDRA Run Time: 09:30 Method: 7471A

File ID: HY.021811.093059 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356943 Cal ID: HYDRA - 18-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00204	mg/L	102	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923232

Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357000-09

Instrument ID: HYDRA Run Time: 13:35 Method: 7470A

File ID: HY.021811.133524 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356988 Cal ID: HYDRA - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00199	mg/L	99.5	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923232

Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357000-11

Instrument ID: HYDRA Run Time: 13:55 Method: 7470A

File ID: HY.021811.135508 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356988 Cal ID: HYDRA - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00200	mg/L	100	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923232

Report generated 02/22/2011 16:01

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020447 Run Date: 02/18/2011 Sample ID: WG357000-13

Instrument ID: HYDRA Run Time: 14:15 Method: 7470A

File ID: HY.021811.141508 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG356988 Cal ID: HYDRA - 18-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00203	mg/L	102	80 - 120		

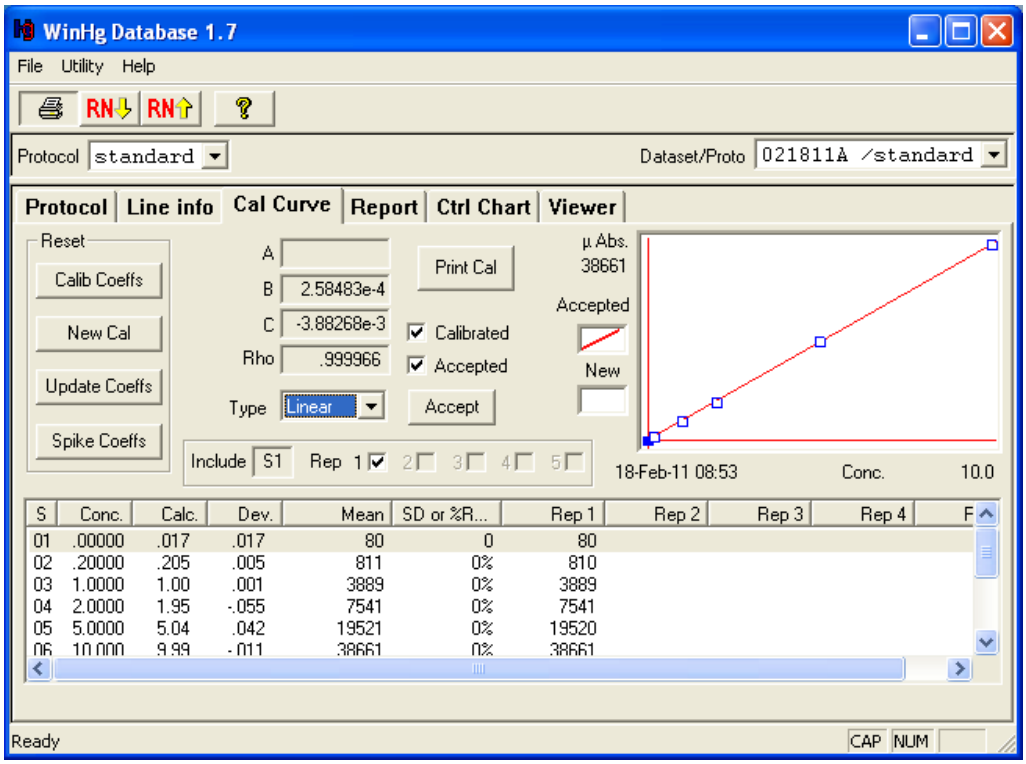
* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1923232

Report generated 02/22/2011 16:01

2.2.3.3 Raw Data



Approved: February 18, 2011

Pierre Morris

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       08:43:46 18 Feb 11   HG

Hg    .000    ppb      80

*** Standard: 2 Rep: 1              Seq:  2       08:45:28 18 Feb 11   HG

Hg    .200    ppb      810

*** Standard: 3 Rep: 1              Seq:  3       08:47:12 18 Feb 11   HG

Hg    1.00    ppb      3889

*** Standard: 4 Rep: 1              Seq:  4       08:48:59 18 Feb 11   HG

Hg    2.00    ppb      7541

*** Standard: 5 Rep: 1              Seq:  5       08:50:47 18 Feb 11   HG

Hg    5.00    ppb      19520

*** Standard: 6 Rep: 1              Seq:  6       08:52:30 18 Feb 11   HG

Hg    10.0    ppb      38661

*** Check Standard: 2  Ck2ICV       Seq:  7       08:54:13 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     2.07    2.00   ppb        .000

*** Check Standard: 3  Ck3ICB       Seq:  8       08:55:56 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          6.33     .013    .200   ppb        .000

*** Check Standard: 4  Ck4CCV       Seq:  9       08:57:39 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     2.06    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  10      08:59:41 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          17.4     .035    .200   ppb        .000

*** Sample ID: WG35689302           Seq:  11      09:04:39 18 Feb 11   HG

Hg    .034    ppb       .000      .034

*** Sample ID: WG35689303           Seq:  12      09:06:32 18 Feb 11   HG

Hg    4.48    ppb       .000      4.48
```

Approved: February 18, 2011

Pierre Morris

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Sample ID: 1102038201            Seq:  13     09:08:15 18 Feb 11   HG
                          DL0.01
Hg   -.025    ppb        .000     -.025

*** Sample ID: 1102038201            Seq:  14     09:10:56 18 Feb 11   HG

Hg    .735    ppb        .000      .735

*** Sample ID: WG35694301            Seq:  15     09:12:47 18 Feb 11   HG
                          1102038201PS.9
Hg    1.74    ppb        .000      1.74

*** Sample ID: 1102044701            Seq:  16     09:14:41 18 Feb 11   HG
                          WG35689301
Hg    .341    ppb        .000      .341

*** Check Standard: 4  Ck4CCV        Seq:  17     09:16:33 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          108.     2.15    2.00  ppb         .000

*** Check Standard: 5  Ck5CCB        Seq:  18     09:18:18 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          12.3     .025    .200  ppb         .000

*** Sample ID: WG35694302            Seq:  19     09:20:11 18 Feb 11   HG
                          1102044701PS.9
Hg    1.33    ppb        .000      1.33

*** Sample ID: 1102044702            Seq:  20     09:22:05 18 Feb 11   HG

Hg    .334    ppb        .000      .334

*** Sample ID: WG35689304            Seq:  21     09:24:00 18 Feb 11   HG
                          1102044703S
Hg    3.98    ppb        .000      3.98

*** Sample ID: WG35689305            Seq:  22     09:25:44 18 Feb 11   HG
                          1102044704SD
Hg    4.07    ppb        .000      4.07

*** Sample ID: 1102044706            Seq:  23     09:27:30 18 Feb 11   HG

Hg    1.44    ppb        .000      1.44

*** Sample ID: 1102044707            Seq:  24     09:29:15 18 Feb 11   HG

Hg    1.50    ppb        .000      1.50
```

Initially analyzed at a dilution due to historically high concentrations of mercury. Sample reanalyzed at no dilution at 09:10

Approved: February 18, 2011

Pierce Morris

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 4 Ck4CCV Seq: 25 09:30:59 18 Feb 11 HG

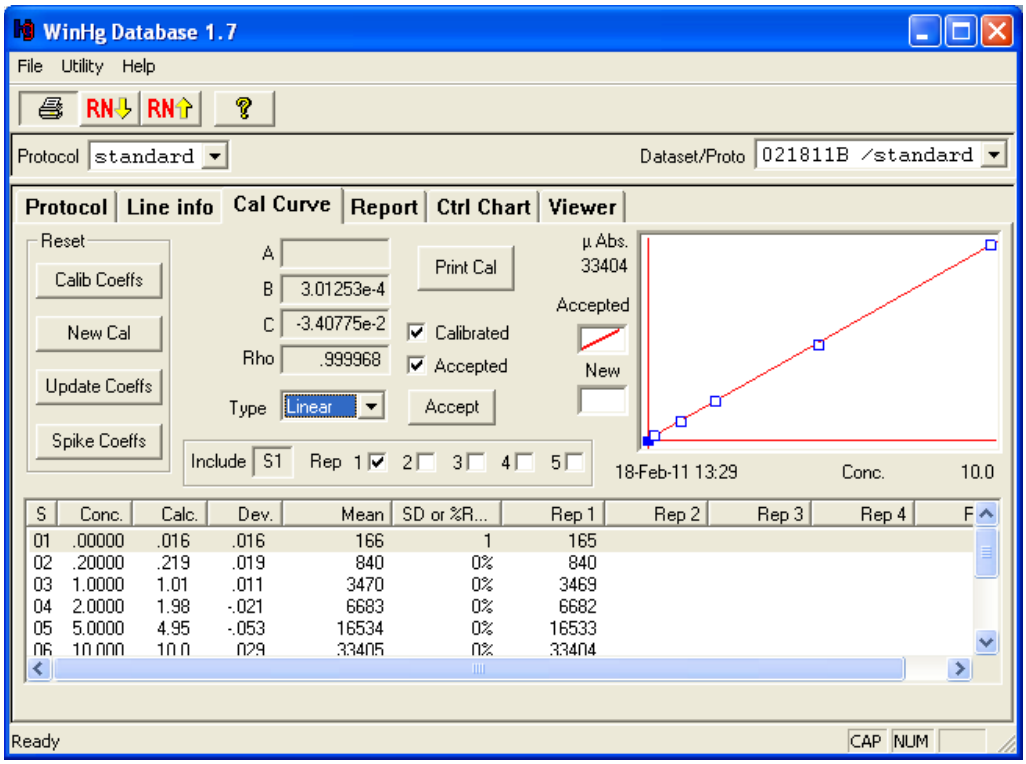
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	2.04	2.00	ppb	.000

*** Check Standard: 5 Ck5CCB Seq: 26 09:32:42 18 Feb 11 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		13.3	.027	.200	ppb	.000

Approved: February 18, 2011

Pierce Morris



Approved: February 21, 2011

Pierre Morris

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       13:20:36 18 Feb 11   HG

Hg    .000    ppb      165

*** Standard: 2 Rep: 1              Seq:  2       13:22:20 18 Feb 11   HG

Hg    .200    ppb      840

*** Standard: 3 Rep: 1              Seq:  3       13:24:02 18 Feb 11   HG

Hg    1.00    ppb      3469

*** Standard: 4 Rep: 1              Seq:  4       13:25:55 18 Feb 11   HG

Hg    2.00    ppb      6682

*** Standard: 5 Rep: 1              Seq:  5       13:27:38 18 Feb 11   HG

Hg    5.00    ppb      16533

*** Standard: 6 Rep: 1              Seq:  6       13:29:41 18 Feb 11   HG

Hg    10.0    ppb      33404

*** Check Standard: 2  Ck2ICV       Seq:  7       13:31:27 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          104.     2.08    2.00   ppb        .000

*** Check Standard: 3  Ck3ICB       Seq:  8       13:33:39 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -9.66    -.019    .200   ppb        .000

*** Check Standard: 4  Ck4CCV       Seq:  9       13:35:24 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.7     1.99    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  10      13:37:21 18 Feb 11   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          1.04     .002    .200   ppb        .000

*** Sample ID: WG35696802            Seq:  11     13:39:26 18 Feb 11   HG
                          PBW 91
Hg   -.012    ppb       .000     -.012

*** Sample ID: WG35696803            Seq:  12     13:41:24 18 Feb 11   HG
                         LCSW 91
Hg    4.23    ppb       .000      4.23
```

Approved: February 21, 2011

Pierce Morris

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: WG35690701 Seq: 13 13:43:38 18 Feb 11 HG								
				TCLP BLANK				
Hg	.007	ppb	.000	.007				
*** Sample ID: WG35690702 Seq: 14 13:45:53 18 Feb 11 HG								
				TCLP BLANK				
Hg	-.025	ppb	.000	-.025				
*** Sample ID: 1102035701 Seq: 15 13:47:35 18 Feb 11 HG								
Hg	.006	ppb	.000	.006				
*** Sample ID: WG35698801 Seq: 16 13:49:28 18 Feb 11 HG								
				1102035701PS.9				
Hg	1.03	ppb	.000	1.03				
*** Sample ID: 1102035801 Seq: 17 13:51:40 18 Feb 11 HG								
Hg	-.036	ppb	.000	-.036				
*** Sample ID: 1102035802 Seq: 18 13:53:24 18 Feb 11 HG								
Hg	-.002	ppb	.000	-.002				

*** Check Standard: 4 Ck4CCV Seq: 19 13:55:08 18 Feb 11 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	2.00	2.00	ppb	.000

*** Check Standard: 5 Ck5CCB Seq: 20 13:56:54 18 Feb 11 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		-10.7	-.021	.200	ppb	.000

*** Sample ID: 1102043801 Seq: 21 13:58:58 18 Feb 11 HG								
				WG35696801				
Hg	.021	ppb	.000	.021				
*** Sample ID: WG35696804 Seq: 22 14:00:53 18 Feb 11 HG								
				1102043801S				
Hg	4.49	ppb	.000	4.49				
*** Sample ID: WG35696805 Seq: 23 14:02:48 18 Feb 11 HG								
				1102043801SD				
Hg	4.47	ppb	.000	4.47				
*** Sample ID: 1102043901 Seq: 24 14:04:33 18 Feb 11 HG								
Hg	.106	ppb	.000	.106				

Approved: February 21, 2011

Pierre Morris

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: WG35698802 Seq: 25 14:06:15 18 Feb 11 HG
1102043901PS.9

Hg	1.13	ppb	.000	1.13

*** Sample ID: 1102044705 Seq: 26 14:07:58 18 Feb 11 HG

Hg	-.023	ppb	.000	-.023

*** Sample ID: WG35698803 Seq: 27 14:09:50 18 Feb 11 HG
1102044705PS.9

Hg	1.01	ppb	.000	1.01

*** Sample ID: FBLK Seq: 28 14:13:26 18 Feb 11 HG

Hg	-.056	ppb	.000	-.056

*** Check Standard: 4 Ck4CCV Seq: 29 14:15:08 18 Feb 11 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.03	2.00	ppb	.000

*** Check Standard: 5 Ck5CCB Seq: 30 14:17:00 18 Feb 11 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		-1.07	-.002	.200	ppb	.000

Approved: February 21, 2011
Pierre Morris

2.3 General Chemistry Data

2.3.1 Percent Solids Data

2.3.1.1 Raw Data

LABORATORY REPORT

L11020447

02/23/11 15:51

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SITE #1-TPS-2-16-11-COMP	L11020447-01	D2216-90	1	17-FEB-11
SITE #1-2-16-11-DUP	L11020447-02	D2216-90	1	17-FEB-11
SITE #1-2-16-11-MS	L11020447-03	D2216-90	1	17-FEB-11
SITE #1-2-16-11-MSD	L11020447-04	D2216-90	1	17-FEB-11
SITE #1-2-16-11-CLAY-C	L11020447-06	D2216-90	1	17-FEB-11
SITE #1-2-16-11-CLAY-C-2	L11020447-07	D2216-90	1	17-FEB-11

Report Number: **L11020447**
Report Date : **February 23, 2011**

Sample Number:	**L11020447-01**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**SITE #1-TPS-2-16-11-COMP**	Prep Method:	**D2216-90**	Prep Date:	**02/22/2011 09:07**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG357101**	Analyst:	**JDH**	Run Date:	**02/22/2011 09:07**
Collect Date:	**02/16/2011 11:20**	Dilution:	**1**	File ID:	**B1.357101-0131**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**84.0**		**1.00**	**1.00**

Report Number: **L11020447**
Report Date : **February 23, 2011**

Sample Number:	**L11020447-02**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**SITE #1-2-16-11-DUP**	Prep Method:	**D2216-90**	Prep Date:	**02/22/2011 09:07**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG357101**	Analyst:	**JDH**	Run Date:	**02/22/2011 09:07**
Collect Date:	**02/16/2011 11:20**	Dilution:	**1**	File ID:	**B1.357101-0132**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**85.5**		**1.00**	**1.00**

Report Number: **L11020447**
Report Date : **February 23, 2011**

Sample Number:	**L11020447-03**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**SITE #1-2-16-11-MS**	Prep Method:	**D2216-90**	Prep Date:	**02/22/2011 09:07**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG357101**	Analyst:	**JDH**	Run Date:	**02/22/2011 09:07**
Collect Date:	**02/16/2011 11:20**	Dilution:	**1**	File ID:	**B1.357101-0133**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**84.0**		**1.00**	**1.00**

Report Number: **L11020447**
Report Date : **February 23, 2011**

Sample Number:	**L11020447-04**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**SITE #1-2-16-11-MSD**	Prep Method:	**D2216-90**	Prep Date:	**02/22/2011 09:07**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG357101**	Analyst:	**JDH**	Run Date:	**02/22/2011 09:07**
Collect Date:	**02/16/2011 11:20**	Dilution:	**1**	File ID:	**B1.357101-0134**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**84.0**		**1.00**	**1.00**

Report Number: **L11020447**
Report Date : **February 23, 2011**

Sample Number:	**L11020447-06**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**SITE #1-2-16-11-CLAY-C**	Prep Method:	**D2216-90**	Prep Date:	**02/22/2011 09:07**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG357101**	Analyst:	**JDH**	Run Date:	**02/22/2011 09:07**
Collect Date:	**02/16/2011 12:40**	Dilution:	**1**	File ID:	**B1.357101-0135**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**81.7**		**1.00**	**1.00**

Report Number: **L11020447**
Report Date : **February 23, 2011**

Sample Number:	**L11020447-07**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**SITE #1-2-16-11-CLAY-C-2**	Prep Method:	**D2216-90**	Prep Date:	**02/22/2011 09:07**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG357101**	Analyst:	**JDH**	Run Date:	**02/22/2011 09:07**
Collect Date:	**02/16/2011 12:45**	Dilution:	**1**	File ID:	**B1.357101-0136**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**78.9**		**1.00**	**1.00**

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG357101 Analyst:JDH ADT(on):02/21/2011 13:15
Method:D2216-90 Instrument:BAL001 ADT(off):02/22/2011 09:07
SOP:K0003 Rev:10

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L11020447-01	1.32	32.59	27.59			84.01	
L11020447-02	1.29	39.96	34.37			85.54	
L11020447-03	1.32	32.59	27.59			84.01	
L11020447-04	1.32	32.59	27.59			84.01	
L11020447-06	1.31	23.71	19.6			81.65	
L11020447-07	1.31	32.09	25.59			78.88	
L11020501-01	1.32	26.33	17.73			65.61	
L11020501-02	1.32	25.83	18.73			71.03	
L11020506-01	1.31	29.19	26.23			89.38	
L11020506-02	1.31	29.19	26.23			89.38	
L11020506-03	1.31	29.19	26.23			89.38	
L11020506-04	1.31	42.55	40.99			96.22	
L11020506-05	1.32	22.31	21.56			96.43	
L11020506-06	1.3	22.06	21.64			97.98	
L11020506-07	1.31	22.83	21.83			95.35	
L11020506-08	1.31	31.71	30.31			95.39	
L11020506-09	1.31	22.9	21.97			95.69	
L11020506-10	1.31	43.26	39.82			91.80	
L11020506-11	1.32	26.47	24.85			93.56	
L11020506-12	1.29	30.43	28.56			93.58	
L11020506-13	1.31	33.95	31.8			93.41	
L11020506-14	1.3	28.51	26.65			93.16	
L11020506-15	1.3	35.83	33.24			92.50	
L11020506-16	1.31	17.56	16.64			94.34	
L11020506-17	1.34	27.42	26.23			95.44	
L11020506-18	1.32	24.4	22.45			91.55	
L11020506-19	1.31	29.97	27.66			91.94	
L11020506-20	1.29	44.09	43.3			98.15	
L11020506-21	1.29	36.73	33.97			92.21	
L11020506-22	1.31	33.16	30.4			91.33	
L11020506-23	1.3	27.78	26.6			95.54	
L11020527-01	1.31	25.25	21.22			83.17	
L11020527-02	1.31	21.45	17.44			80.09	
L11020527-03	1.31	19.8	15.53			76.91	
L11020527-04	1.33	17.31	13.85			78.35	
L11020527-05	1.33	17.7	13.92			76.91	
WG357101-01	1.31	29.19	26.23			89.38	10.62
WG357101-02	1.31	32.09	25.59			78.88	21.12
WG357101-03	1.3	27.59	24.97			90.03	9.966
WG357101-04	1.34	15.08	12.2			79.04	20.96

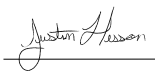
PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1925301
Report generated: 02/22/2011 09:10

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG357101 Analyst:JDH ADT(on):02/21/2011 13:15
Method:D2216-90 Instrument:BAL001 ADT(off):02/22/2011 09:07
SOP:K0003 Rev:10

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE

Analyst: 

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1925301
Report generated: 02/22/2011 09:10

2.3.2 PH Data

2.3.2.1 Summary Data

Login Number: L11020447

Department: Conventionals

Analyst: Dorothy Payne

METHOD

Analysis SW846 9040C,9045D/EPA 150.1/SM4500-H B (pH)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 22051
Approved By: Deanna Hesson

LABORATORY REPORT

L11020447

03/01/11 15:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SITE #1-TPS-2-16-11-COMP	L11020447-01	9045D	1	17-FEB-11
SITE #1-2-16-11-DUP	L11020447-02	9045D	1	17-FEB-11
SITE #1-2-16-11-MS	L11020447-03	9045D	1	17-FEB-11
SITE #1-2-16-11-MSD	L11020447-04	9045D	1	17-FEB-11
SITE #1-2-16-11-FB	L11020447-05	9040C	1	17-FEB-11
SITE #1-2-16-11-CLAY-C	L11020447-06	9045D	1	17-FEB-11
SITE #1-2-16-11-CLAY-C-2	L11020447-07	9045D	1	17-FEB-11

Microbac Laboratories Inc.

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-01**
Client ID: **SITE #1-TPS-2-16-11-COMP**
Matrix: **Soil**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 11:20**

PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113470401**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	**10-29-7**	**6.52**			

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-02	PrePrep Method:	NONE	Instrument:	ORION-4STA
Client ID:	SITE #1-2-16-11-DUP	Prep Method:	9045D	Prep Date:	02/17/2011 14:25
Matrix:	Soil	Analytical Method:	9045D	Cal Date:	
Workgroup Number:	WG356850	Analyst:	DLP	Run Date:	02/17/2011 14:25
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	OS11022113471301
		Units:	UNITS		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	6.59			

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-03**
Client ID: **SITE #1-2-16-11-MS**
Matrix: **Soil**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 11:20**

PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113472501**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	**10-29-7**	**6.53**			

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	L11020447-04	PrePrep Method:	NONE	Instrument:	ORION-4STA
Client ID:	SITE #1-2-16-11-MSD	Prep Method:	9045D	Prep Date:	02/17/2011 14:25
Matrix:	Soil	Analytical Method:	9045D	Cal Date:	
Workgroup Number:	WG356850	Analyst:	DLP	Run Date:	02/17/2011 14:25
Collect Date:	02/16/2011 11:20	Dilution:	1	File ID:	OS11022113473201
		Units:	UNITS		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	6.42			

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-05**
Client ID: **SITE #1-2-16-11-FB**
Matrix: **Water**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 12:20**

PrePrep Method: **NONE**
Prep Method: **9040C**
Analytical Method: **9040C**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113473901**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	**10-29-7**	**5.48**			

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number: **L11020447-06**
Client ID: **SITE #1-2-16-11-CLAY-C**
Matrix: **Soil**
Workgroup Number: **WG356850**
Collect Date: **02/16/2011 12:40**

PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **DLP**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STA**
Prep Date: **02/17/2011 14:25**
Cal Date:
Run Date: **02/17/2011 14:25**
File ID: **OS11022113474701**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	**10-29-7**	**4.87**			

Report Number: **L11020447**
Report Date : **March 1, 2011**

Sample Number:	**L11020447-07**	PrePrep Method:	**NONE**	Instrument:	**ORION-4STA**
Client ID:	**SITE #1-2-16-11-CLAY-C-2**	Prep Method:	**9045D**	Prep Date:	**02/17/2011 14:25**
Matrix:	**Soil**	Analytical Method:	**9045D**	Cal Date:	
Workgroup Number:	**WG356850**	Analyst:	**DLP**	Run Date:	**02/17/2011 14:25**
Collect Date:	**02/16/2011 12:45**	Dilution:	**1**	File ID:	**OS11022113475601**
		Units:	**UNITS**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	**10-29-7**	**4.80**			

2.3.2.2 QC Summary Data

Example pH Calculations
(Direct Readout Parameter)

Readout from instrument = result in S.U.

where:

Readout = direct readout from the instrument

Microbac Laboratories Inc.

Data Checklist

Date: 17-FEB-2011
Analyst: DLP
Analyst: NA
Method: PH
Instrument: ORION 4-STAR
Curve Workgroup: NA
Runlog ID:
Analytical Workgroups: WG356850

Calibration/Linearity	02-17-11
Second Source Check	
ICV/CCV (std)	
ICB/CCB	
Blank	
LCS/LCS Dup	
MS/MSD	
Duplicate	X
Upload Results	
Client Forms	X
QC Violation Sheet	
Case Narratives	
Signed Raw Data	X
STD/LCS on benchsheet	X
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	
Primary Reviewer	DLP
Secondary Reviewer	DIH
Comments	

Primary Reviewer:
18-FEB-2011

Secondary Reviewer:
21-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-21-2011 16:16:17

2.3.2.3 Raw Data

WORKGROUP: WG356850

pH

Sample	Calibration Buffers	A Water Misc. Liquid	B 50% Slurry Of Solid	C 50% Water Org. Liq. Mix
LCS 643917	7, 4, 10	6.02		
02-446-01		7.45		
02-447-01			6.52	
-02			6.54	
-03			6.53	
-04			6.42	
-05		5.48		
-06			4.87	
-07			4.80	
Dup 02-446-01		7.44		
DUP 02-447-05 02/17/11				
LCS 642845		8.98		

B,C) SW846 9045D

A) SM 4500-H(+)-B

A) EPA 150.1

A) SW846 9040C

SOP K1501 Rev 12

Circle Instrument

~~Orion 4-Star~~

Orion 710A #1

Orion 710A #2

Bante 922

Analyst: Kristy Rupe

Date: 02-17-11 /1425

DCN#86121

Approved: February 21, 2011

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
March 1, 2011

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDL – ERIN D. LONG	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JLL – JOHN L. LENT	JWR – JOHN W. RICHARDS
JWS – JACK W. SHEAVES	JYH – JI Y. HU	KEB – KATIE E. BARNES
KHR – KIM H. RHODES	KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN
MES – MARY E. SCHILLING	MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT
RAH – ROY A. HALSTEAD	RB – BOB BUCHANAN	REK – BOB E. KYER
RLK – ROBIN L. KLINGER	RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WJB – WILL J. BEASLEY
WTD – WADE T. DELONG		

Microbac Laboratories Inc.
List of Valid Qualifiers
March 01, 2011

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 2424

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES

Phone: 740-373-4308
Fax: 740-376-2536

CHAIN-OF-CUSTODY RECORD

Company Name: UXB - KEMRON

Project Contact: MARY LOU ROCHETTE
Contact Phone #: 740-373-4308

Turn Around Requirements: 5 - DAY
Location: 4021 PRICES FORK ROAD

Project ID: MR0669-400-002 RFAAP-SWMU-57

Sampler (print): SONAH ANDERSON
Signature:

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	TAL - METALS	PAH, PESTICIDES, PCB, pH		pH	TAL METALS	PAH	PESTICIDES, PCB		TOTAL # (LAB USE)
SITE #1-TPS-2-16-11-COMP	X		2-16-11	1120	S	2		1	1							
SITE #1-2-16-11-DUP	X		2-16-11	1120	S	2		1	1							
SITE #1-2-16-11-MS	X		2-16-11	1120	S	2		1	1							
SITE #1-2-16-11-MSD	X		2-16-11	1120	S	2		1	1							
SITE #1-2-16-11-FB		X	2-16-11	1220	W	6					1	1	2	2		
SITE #1-2-16-11-CLAY-C	X		2-16-11	1240	S	2		1	1							
SITE #1-2-16-11-CLAY-C-2	X		2-16-11	1245	S	2		1	1							
TEMP BLANK						1										

Program
- ☐ CWA
- ☐ RCRA
- ☐ DOD
- ☐ AFCEE
- ☐ Other

ADDITIONAL REQUIREMENTS

ANALYSIS DONE IN ACCORDANCE W/RFAAP QAPP

NOTE: BACK FILL SAMPLES FOR SWMU-57 RFAAP

Relinquished by: (Signature)	Date	Time
	2-16-11	1355
Relinquished by: (Signature)	Date	Time

Microbac OVD
Received: 02/17/2011 10:31
By: BRENDA GREENWALT
221000012465

Brenda Greenwalt

Date	Time	Received by: (Signature)

Remarks:

Page 1 of 1

Page 1889

1000012465

COOLER INSPECTION

Received: 02/17/2011 10:31
Delivery Method: FedEx
Opened By: Brenda Greenwalt
Comments:

Login(s): L11020447|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0014536	G	1.0	345750485100256187504383786020 07	2424	

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	No	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	Yes	Were correct perservatives used? (water only)
10	NA	Were pH ranges acceptable? (voa's excluded)
11	NA	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

6	Site #1-TPS-2-16-11-COMP: metals jar received broken, transferred sample into another container.

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020447
Account: 2820
Project: 2820.216
Samples: 7
Due Date: 24-FEB-2011

Samplenum	Container ID	Products
L11020447-01	798310	8081 8082 827-PAHL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	EXT	18-FEB-2011 06:35	CEB	AZH
3	STORE	EXT	W1	18-FEB-2011 12:45	RLK	CEB
4	ANALYZ*	EXT	SEMI	18-FEB-2011 16:33	ECL	CEB

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11020447-01	798311	AL AS-MS BA BE CA CD CO COR-PH CR CU DIG-ICP F

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	DIG	17-FEB-2011 13:48	BRG	RLK
3	ANALYZ*	DIG	METALS	18-FEB-2011 08:51	PDM	BRG
4	STORE	DIG	W1	18-FEB-2011 14:39	RLK	ERP
5	ANALYZ	W1	WET	21-FEB-2011 11:24	JDH	RLK
6	STORE	WET	W1	22-FEB-2011 08:30	RLK	JDH
7	SUBBED	A1	SUBBED	23-FEB-2011 12:59	RLK	RLK

Comments:KEMRON

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11020447-02	798312	8081 8082 827-PAHL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	EXT	18-FEB-2011 06:35	CEB	AZH
3	STORE	EXT	W1	18-FEB-2011 12:45	RLK	CEB
4	ANALYZ*	EXT	SEMI	18-FEB-2011 16:33	ECL	CEB

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020447
Account: 2820
Project: 2820.216
Samples: 7
Due Date: 24-FEB-2011

Samplenum	Container ID	Products
L11020447-02	798313	AG AL AS-MS BA BE CA CD CO COR-PH CR CU DIG-IC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	DIG	17-FEB-2011 13:48	BRG	RLK
3	ANALYZ*	DIG	METALS	18-FEB-2011 08:51	PDM	BRG
4	STORE	DIG	W1	18-FEB-2011 14:39	RLK	ERP
5	ANALYZ	W1	WET	21-FEB-2011 11:24	JDH	RLK
6	STORE	WET	W1	22-FEB-2011 08:30	RLK	JDH

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11020447-03	798314	8081 8082 827-PAHL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	EXT	18-FEB-2011 06:35	CEB	AZH
3	STORE	EXT	W1	18-FEB-2011 12:45	RLK	CEB
4	ANALYZ*	EXT	SEMI	18-FEB-2011 16:33	ECL	CEB

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11020447-03	798315	AG AL AS-MS BA BE CA CD CO COR-PH CR CU DIG-IC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	DIG	17-FEB-2011 13:48	BRG	RLK
3	ANALYZ*	DIG	METALS	18-FEB-2011 08:51	PDM	BRG
4	STORE	DIG	W1	18-FEB-2011 14:39	RLK	ERP
5	ANALYZ	W1	WET	21-FEB-2011 11:24	JDH	RLK
6	STORE	WET	W1	22-FEB-2011 08:30	RLK	JDH

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020447
Account: 2820
Project: 2820.216
Samples: 7
Due Date: 24-FEB-2011

Samplenum	Container ID	Products
L11020447-04	798316	8081 8082 827-PAHL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	EXT	18-FEB-2011 06:35	CEB	AZH
3	STORE	EXT	W1	18-FEB-2011 12:45	RLK	CEB
4	ANALYZ*	EXT	SEMI	18-FEB-2011 16:33	ECL	CEB

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11020447-04	798317	AG AL AS-MS BA BE CA CD CO COR-PH CR CU DIG-IC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	DIG	17-FEB-2011 13:48	BRG	RLK
3	ANALYZ*	DIG	METALS	18-FEB-2011 08:51	PDM	BRG
4	STORE	DIG	W1	18-FEB-2011 14:39	RLK	ERP
5	ANALYZ	W1	WET	21-FEB-2011 11:24	JDH	RLK
6	STORE	WET	W1	22-FEB-2011 08:30	RLK	JDH

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11020447-05	798318	827-PAHL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	EXT	22-FEB-2011 06:42	CEB	AZH
3	ANALYZ*	EXT	SEMI	22-FEB-2011 11:14	CAA	CEB
4	DISP	EXT	DISP	22-FEB-2011 17:19	RB	RB

Sample extract/digestate/leachate

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	STORE	W1	A1	22-FEB-2011 14:25	BLG	BLG

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020447
Account: 2820
Project: 2820.216
Samples: 7
Due Date: 24-FEB-2011

Samplenum	Container ID	Products
L11020447-05	798319	8081 8082

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	EXT	18-FEB-2011 07:16	CEB	AZH
3	ANALYZ*	EXT	SEMI	18-FEB-2011 15:50	ECL	CEB
4	DISP	EXT	DISP	21-FEB-2011 17:26	RB	RB

***Sample extract/digestate/leachate**

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	STORE	W1	A1	22-FEB-2011 14:25	BLG	BLG

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11020447-05	798320	COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	ANALYZ	W1	WET	17-FEB-2011 13:14	HJR	RLK
3	STORE	WET	A2	21-FEB-2011 08:35	RLK	DLP

Samplenum	Container ID	Products
L11020447-05	798321	HG MG MN NA NI PB-AX V ZN AG AS-AX BE CA CD CR

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	DIG	17-FEB-2011 13:48	BRG	RLK
3	ANALYZ*	DIG	METALS	18-FEB-2011 09:56	PDM	BRG
4	STORE	DIG	A2	18-FEB-2011 14:39	RLK	ERP

***Sample extract/digestate/leachate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020447
Account: 2820
Project: 2820.216
Samples: 7
Due Date: 24-FEB-2011

Samplenum	Container ID	Products
L11020447-06	798322	8081 8082 827-PAHL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	EXT	18-FEB-2011 06:35	CEB	AZH
3	STORE	EXT	W1	18-FEB-2011 12:44	RLK	CEB
4	ANALYZ*	EXT	SEMI	18-FEB-2011 16:33	ECL	CEB

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11020447-06	798323	AG AL AS-MS BA BE CA CD CO COR-PH CR CU DIG-IC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	DIG	17-FEB-2011 13:48	BRG	RLK
3	ANALYZ*	DIG	METALS	18-FEB-2011 08:51	PDM	BRG
4	STORE	DIG	W1	18-FEB-2011 14:39	RLK	ERP
5	ANALYZ	W1	WET	21-FEB-2011 11:24	JDH	RLK
6	STORE	WET	W1	22-FEB-2011 08:30	RLK	JDH

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11020447-07	798324	8081 8082 827-PAHL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	EXT	18-FEB-2011 06:35	CEB	AZH
3	STORE	EXT	W1	18-FEB-2011 12:44	RLK	CEB
4	ANALYZ*	EXT	SEMI	18-FEB-2011 16:33	ECL	CEB

***Sample extract/digestate/leachate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020447
Account: 2820
Project: 2820.216
Samples: 7
Due Date: 24-FEB-2011

Samplenum	Container ID	Products
L11020447-07	798325	AG AL AS-MS BA BE CA CD CO COR-PH CR CU DIG-IC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	17-FEB-2011 12:13	CLS	
2	PREP	W1	DIG	17-FEB-2011 13:48	BRG	RLK
3	ANALYZ*	DIG	METALS	18-FEB-2011 08:51	PDM	BRG
4	STORE	DIG	W1	18-FEB-2011 14:39	RLK	ERP
5	ANALYZ	W1	WET	21-FEB-2011 11:24	JDH	RLK
6	STORE	WET	W1	22-FEB-2011 08:30	RLK	JDH

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

APPENDIX B

Survey Data

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189,3594451.4419,10886465.6621,1882.7045,RIPRAP
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191,3594523.5767,10886534.8509,1882.0681,RIPRAP2
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194,3598341.4573,10889180.8002,1762.7082,SA MON2
```

APPENDIX C

Waste Characterization Laboratory Analytical Reports (on CD-ROM)

Microbac

Laboratory Report Number: L11110790

Mary Lou Rochette
Kemron Environmental Services
156 Starlite Drive
Marietta, OH 45750

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

This report was reviewed on December 14 2011

Stephanie Mossburg

Stephanie Mossburg – Team Chemist/Data Specialist
(740) 373-4071
Stephanie.Mossburg@microbac.com

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on December 14 2011

David E. Vandenberg

David Vandenberg – Managing Director

State of Origin: VA
Accrediting Authority: N/A ID:N/A
QAPP: DOD Ver 4.1

Microbac

Lab Report #: L11110790
Lab Project #: 2820.216
Project Name: Radford AAP
Lab Contact: Stephanie Mossburg

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

The following discrepancies were noted:

Discrepancy	Resolution
The pH is out on the COD and Metal sample for ID 40 IDW D1 GW 112111. Added 5ml HNo3 to Metals Lot # RGT 16662, 11/23/11 @0750am. Added 1ml H2SO4 to COD Lot # RGT 16574, 11/23/11 @0750am. Ph are now ok. JKS	Please adjust and proceed with analysis

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #
0016610	H	1.0		
0015982	H	0.0		
0016639	H	1.0		
0016620	H	0.0		
0016605	H	1.0		
0016621	H	1.0		
0016629	H	1.0		

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	NA
2	Were custody seals intact?	NA
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct perservatives used? (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	No
12	Were VOA samples free of headspace (less than 6mm)?	NA

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
40 IDW SL 112111	L11110790-01	11/21/2011 18:05	11/22/2011 14:29
40 IDW SL 112111	L11110790-02	11/21/2011 18:05	11/22/2011 14:29
40 IDW D1 GW112111	L11110790-03	11/21/2011 17:55	11/22/2011 14:29
40 IDW D2 GW112111	L11110790-04	11/21/2011 18:00	11/22/2011 14:29

Login Number: L11110790
Department: Volatiles
Analyst: Tiffany Bailey

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: Dichlorodifluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: Bromoform. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient volume of sample. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Other: None.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the

system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 39311
Approved By: Michael Albertson

Login Number: L11110790
Department: Semivolatiles
Analyst: Cassie A. Augenstein

METHOD

Preparation 3550B/3545

Analysis SW-846 8270C/40 CFR 264 App. IX

HOLDING TIMES

Sample Preparation: Sample 01 was marginally re-extracted out of hold.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: 2,4-Dinitrophenol, 2-Chloronaphthalene. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: 2-Nitroaniline, 3,3'-Dichlorobenzidine, Benzoic Acid, bis(2-Chloroisopropyl)ether, bis(2-Ethylhexyl)phthalate. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes/surrogates: 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4-Dichlorophenol, 2-Chloronaphthalene, 2-Methylnaphthalene, Acenaphthylene, bis(2-Chloroethoxy)methane, Dibenzofuran, Fluorene, Isophorone, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,6-Dinitrotoluene, 2-Nitroaniline, 3,3'-Dichlorobenzidine, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-Methylphenol, 4-Chlorophenyl Phenyl Ether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Benzoic Acid, Benzo[a]anthracene, Chrysene, Diethylphthalate, Dimethylphthalate, n-Nitrosodiphenylamine. Please see the applicable QC report for a detailed presentation of the failures.

Sample 01 was re-extracted with an acceptable LCS.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: All acceptance criteria were met.

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak
completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 39632
Approved By: Mike Cochran

Login Number: L11110790
Department: Conventionals
Analyst: Holly Reed

METHOD

Analysis SW846 9040C,9045D/EPA 150.1/SM4500-H B (pH)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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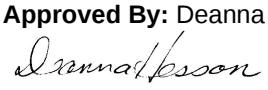
Narrative ID: 39298
Approved By: Deanna Hesson



Login Number: L11110790
Department: General Chromatography
Analyst: Eric Lawson

METHOD

Analysis SW-846 8082A

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 20%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical

judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

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Narrative ID: 39370
Approved By: Mike Cochran

Login Number: L11110790
Department: General Chromatography
Analyst: Eric Lawson

METHOD

Analysis SW-846 8330

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: Tetryl. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: The client did not specify an MS/MSD for this sample delivery group.

SAMPLES

Samples: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration

is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

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Narrative ID: 39474
Approved By: Mike Cochran

Login Number: L11110790
Department: Metals
Analyst: Sheri Pfalzgraf

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: WG383294 - The continuing calibration blanks analyzed on 29-NOV-2011 at 18:29, 19:28 and 20:49 yielded results for silver that slightly exceeded the limit of detection. However, the sample yielded a result that was below the limit of quantitation. With the permission of the project manager, the silver result was reported with a 'B' qualifier to indicate the association with noncompliant CCB's.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG383294 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 39220
Approved By: Sheri Pfalzgraf

Login Number: L11110790
Department: Metals
Analyst: Ji Hu

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

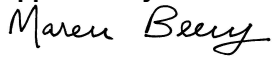
Serial Dilution/Post Digestion Spikes: WG383211 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: WG383211 - Due to high levels of nontarget analytes, client sample 03 was analyzed at a dilution for all analytes. Further dilution analysis was necessary in order to obtain a result for barium within the calibration range.

Narrative ID: 39463
Approved By: Maren Beery



Login Number: L11110790
Department: Metals - AA
Analyst: Erin Long
Analyst #2: Sheri Pfalzgraf

METHOD

Preparation: SW-846 7470

Analysis: SW-846 7470

HOLDING TIMES

Sample Preparation: WG385279 - Client sample 03 was extracted out of hold time.

Sample Analysis: WG385407 - Client sample 03 was analyzed out of hold time.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG383335 - All acceptance criteria were met.

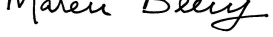
WG385407 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 39243
Approved By: Maren Beery



Login Number: L11110790
Department: Conventionals
Analyst: Dorothy Payne

METHOD

Analysis EPA405.1/SM 5210B (Biochemical Oxygen Demand)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: The LCS/LCS duplicate recoveries of 119% and 116% exceeded the method set upper limit of 115.4%. A second source standard was also analyzed and the recovery was 112%. The problem appears to be with the LCS only and not the analysis.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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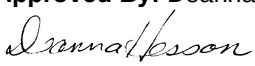
Narrative ID: 39208
Approved By: Deanna Hesson



Login Number: L11110790
Department: Conventionals
Analyst: Deanna Hesson

METHOD

Analysis EPA 410.4 MOD/SM5220D/HACH 8000 (Chemical Oxygen Demand)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

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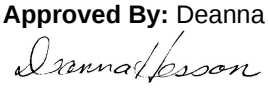
Narrative ID: 39299
Approved By: Deanna Hesson



Manual Integrations
Microbac Laboratories Inc.

The following report lists the analytes that were manually integrated.
Method: 8270

Sample #	Type	Analyte	File ID	Dilution	Code #

Sample #	Type	Analyte	File ID	Dilution	Code #
WG383027-02	LCS	BENZO[B]FLUORANTHENE	12M37727	1	3
WG383027-03	LCS2	BENZO[B]FLUORANTHENE	12M37728	1	3

Sample #	Type	Analyte	File ID	Dilution	Code #
WG383236-02	STD-CCV	BENZOIC ACID	12M37679	1	2
WG383236-02	STD-CCV	BENZO[B]FLUORANTHENE	12M37679	1	3
WG383236-07	STD	A,A-DIMETHYLPHENETHYLAMINE	12M37684	1	2
WG383236-07	STD	BENZOIC ACID	12M37684	1	2
WG383236-07	STD	P-PHENYLENEDIAMINE	12M37684	1	1
WG383236-08	STD	A,A-DIMETHYLPHENETHYLAMINE	12M37685	1	2
WG383236-08	STD	BENZOIC ACID	12M37685	1	2
WG383236-08	STD	P-PHENYLENEDIAMINE	12M37685	1	1
WG383236-09	STD	A,A-DIMETHYLPHENETHYLAMINE	12M37686	1	2
WG383236-09	STD	BENZOIC ACID	12M37686	1	2
WG383236-09	STD	P-PHENYLENEDIAMINE	12M37686	1	1
WG383236-10	SSCV	A,A-DIMETHYLPHENETHYLAMINE	12M37687	1	2
WG383569-02	CCV	A,A-DIMETHYLPHENETHYLAMINE	12M37725	1	2
WG383569-02	CCV	BENZOIC ACID	12M37725	1	2
WG383579-02	STD-CCV	A,A-DIMETHYLPHENETHYLAMINE	4M58929	1	2
WG383579-02	STD-CCV	BENZOIC ACID	4M58929	1	2
WG383579-02	STD-CCV	DIALLATE	4M58929	1	1
WG383579-03	STD	2-NAPHTHYLAMINE	4M58930	1	1
WG383579-04	STD	2-NAPHTHYLAMINE	4M58931	1	1
WG383579-04	STD	A,A-DIMETHYLPHENETHYLAMINE	4M58931	1	2
WG383579-05	STD	2-NAPHTHYLAMINE	4M58932	1	1
WG383579-05	STD	BENZOIC ACID	4M58932	1	2
WG383579-06	STD	BENZOIC ACID	4M58933	1	2
WG383579-07	STD	A,A-DIMETHYLPHENETHYLAMINE	4M58934	1	2
WG383579-07	STD	BENZOIC ACID	4M58934	1	2
WG383579-08	STD	2-NAPHTHYLAMINE	4M58935	1	1
WG383579-08	STD	A,A-DIMETHYLPHENETHYLAMINE	4M58935	1	2
WG383579-09	STD	2-NAPHTHYLAMINE	4M58936	1	1
WG383579-09	STD	A,A-DIMETHYLPHENETHYLAMINE	4M58936	1	2
WG383579-09	STD	BENZO[K]FLUORANTHENE	4M58936	1	3
WG383579-10	SSCV	2-NAPHTHYLAMINE	4M58937	1	1
WG383968-02	CCV	1-NAPHTHYLAMINE	4M59011	1	1
WG383968-02	CCV	A,A-DIMETHYLPHENETHYLAMINE	4M59011	1	2
WG383968-02	CCV	BENZOIC ACID	4M59011	1	2

Method: 8330

Sample #	Type	Analyte	File ID	Dilution	Code #

Sample #	Type	Analyte	File ID	Dilution	Code #

Sample #	Type	Analyte	File ID	Dilution	Code #

Method: 8082

Sample #	Type	Analyte	File ID	Dilution	Code #

Sample #	Type	Analyte	File ID	Dilution	Code #

Sample #	Type	Analyte	File ID	Dilution	Code #

Method: 8260

Sample #	Type	Analyte	File ID	Dilution	Code #

Sample #	Type	Analyte	File ID	Dilution	Code #

Sample #	Type	Analyte	File ID	Dilution	Code #

Reason Code Descriptions

Code	Description
1	Data system fails to select the correct peak
2	Data system splits the peak incorrectly or integrates a false peak as a rider peak
3	Improperly integrated isomers and/or coeluting compounds
4	System established incorrect baseline
5	Miscellaneous

Report Number: **L11110790**
Report Date : **January 9, 2012**

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG383270**
Collect Date: **11/21/2011 18:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8082**
Analyst: **ECL**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP9**
Prep Date: **11/28/2011 11:21**
Cal Date: **08/26/2011 17:38**
Run Date: **11/30/2011 18:45**
File ID: **9GF66208.F**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	16.2	8.11
Aroclor-1221	11104-28-2		U	16.2	8.11
Aroclor-1232	11141-16-5		U	16.2	8.11
Aroclor-1242	53469-21-9		U	16.2	8.11
Aroclor-1248	12672-29-6		U	16.2	8.11
Aroclor-1254	11097-69-1		U	16.2	8.11
Aroclor-1260	11096-82-5		U	16.2	8.11

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	57.9	29	133	
Decachlorobiphenyl	81.0	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG383493**
Collect Date: **11/21/2011 18:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **8330B**
Analyst: **ECL**
Dilution: **1**
Units: **mg/kg**

Instrument: **HPLC5**
Prep Date: **11/30/2011 08:00**
Cal Date: **02/10/2011 16:32**
Run Date: **12/02/2011 12:24**
File ID: **5L005916.F**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,3,5-Trinitrobenzene	99-35-4		U	0.249	0.0997
1,3-Dinitrobenzene	99-65-0		U	0.249	0.0997
2,4,6-Trinitrotoluene	118-96-7		U	0.249	0.0997
2,4-Dinitrotoluene	121-14-2		U	0.249	0.0997
2,6-Dinitrotoluene	606-20-2		U	0.249	0.0997
2-Amino-4,6-dinitrotoluene	35572-78-2		U	0.249	0.0997
2-Nitrotoluene	88-72-2		U	0.249	0.0997
3-Nitrotoluene	99-08-1		U	0.249	0.0997
4-Nitrotoluene	99-99-0		U	0.249	0.0997
4-Amino-2,6-dinitrotoluene	19406-51-0		U	0.249	0.0997
HMX	2691-41-0		U	0.249	0.0997
Nitrobenzene	98-95-3		U	0.249	0.0997
RDX	121-82-4		U	0.249	0.0997
Tetryl	479-45-8		U	0.249	0.0997
Nitroglycerin	55-63-0		U	0.249	0.0997

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dinitrobenzene	91.5	50	150	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG383493**
Collect Date: **11/21/2011 18:05**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **8330B**
Analyst: **ECL**
Dilution: **1**
Units: **mg/kg**

Instrument: **HPLC4**
Prep Date: **11/30/2011 08:00**
Cal Date: **11/01/2011 19:22**
Run Date: **12/05/2011 15:24**
File ID: **4L022955.F**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
PETN	78-11-5		U	0.249	0.0997

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11110790**
Report Date : **January 9, 2012**

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG383196**
Collect Date: **11/21/2011 18:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/28/2011 08:46**
Cal Date: **11/30/2011 18:07**
Run Date: **12/02/2011 12:40**
File ID: **12M37732**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,2,4-Trichlorobenzene	120-82-1		U	157	78.7
1,2-Dichlorobenzene	95-50-1		U	157	78.7
1,3-Dichlorobenzene	541-73-1		U	157	78.7
1,4-Dichlorobenzene	106-46-7		U	157	78.7
2,4,5-Trichlorophenol	95-95-4		U	157	78.7
2,4,6-Trichlorophenol	88-06-2		U	157	78.7
2,4-Dichlorophenol	120-83-2		U	157	78.7
2,4-Dimethylphenol	105-67-9		U	157	78.7
2,4-Dinitrophenol	51-28-5		U	787	393
2,4-Dinitrotoluene	121-14-2		U	157	78.7
2,6-Dinitrotoluene	606-20-2		U	157	78.7
2-Chloronaphthalene	91-58-7		U	157	78.7
2-Chlorophenol	95-57-8		U	157	78.7
2-Methylnaphthalene	91-57-6		U	157	78.7
2-Methylphenol	95-48-7		U	157	78.7
2-Nitroaniline	88-74-4		U	787	393
2-Nitrophenol	88-75-5		U	157	78.7
3,3'-Dichlorobenzidine	91-94-1		U	315	157
3-,4-Methylphenol	106-44-5		U	157	78.7
3-Nitroaniline	99-09-2		U	787	393
4,6-Dinitro-2-methylphenol	534-52-1		U	787	393
4-Bromophenyl-phenylether	101-55-3		U	157	78.7
4-Chloro-3-methylphenol	59-50-7		U	157	78.7
4-Chloroaniline	106-47-8		U	157	78.7
4-Chlorophenyl-phenyl ether	7005-72-3		U	157	78.7
4-Nitroaniline	100-01-6		U	787	393
4-Nitrophenol	100-02-7		U	787	393
Acenaphthene	83-32-9		U	157	78.7
Acenaphthylene	208-96-8		U	157	78.7
Anthracene	120-12-7		U	157	78.7
Benzo(a)anthracene	56-55-3		U	157	78.7
Benzo(a)pyrene	50-32-8		U	157	78.7
Benzo(b)fluoranthene	205-99-2		U	157	78.7
Benzo(g,h,i)Perylene	191-24-2		U	157	78.7
Benzo(k)fluoranthene	207-08-9		U	157	78.7
Benzoic acid	65-85-0		U	4770	315
Benzyl alcohol	100-51-6		U	157	78.7
Bis(2-Chloroethoxy)Methane	111-91-1		U	157	78.7
Bis(2-Chloroethyl)ether	111-44-4		U	157	78.7
bis(2-Chloroisopropyl)ether	108-60-1		U	157	78.7
bis(2-Ethylhexyl)phthalate	117-81-7		U	157	78.7
Butylbenzylphthalate	85-68-7		U	157	78.7
Chrysene	218-01-9		U	157	78.7
Di-N-Butylphthalate	84-74-2		U	157	78.7
Di-n-octylphthalate	117-84-0		U	157	78.7
Dibenzo(a,h)Anthracene	53-70-3		U	157	78.7
Dibenzofuran	132-64-9		U	157	78.7
Diethylphthalate	84-66-2		U	157	78.7
Dimethylphthalate	131-11-3		U	157	78.7
Fluoranthene	206-44-0		U	157	78.7
Fluorene	86-73-7		U	157	78.7
Hexachlorobenzene	118-74-1		U	157	78.7
Hexachlorobutadiene	87-68-3		U	157	78.7
Hexachlorocyclopentadiene	77-47-4		U	157	78.7
Hexachloroethane	67-72-1		U	157	78.7
Indeno(1,2,3-cd)pyrene	193-39-5		U	157	78.7
Isophorone	78-59-1		U	157	78.7
N-Nitrosodiphenylamine	86-30-6		U	157	78.7
N-Nitrosodipropylamine	621-64-7		U	157	78.7

Report Number: **L11110790**
Report Date : **January 9, 2012**

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG383196**
Collect Date: **11/21/2011 18:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/28/2011 08:46**
Cal Date: **11/30/2011 18:07**
Run Date: **12/02/2011 12:40**
File ID: **12M37732**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	157	78.7
Nitrobenzene	98-95-3		U	157	78.7
Pentachlorophenol	87-86-5		U	787	393
Phenanthrene	85-01-8		U	157	78.7
Phenol	108-95-2		U	157	78.7
Pyrene	129-00-0		U	157	78.7

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	44.5	35	125	
2-Fluorobiphenyl	53.2	45	105	
2-Fluorophenol	64.7	35	105	
Nitrobenzene-d5	56.9	35	100	
p-Terphenyl-d14	81.5	30	125	
Phenol-d5	58.6	40	100	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG383965**
Collect Date: **11/21/2011 18:05**
Sample Tag: **RE01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **12/06/2011 13:11**
Cal Date: **12/02/2011 16:01**
Run Date: **12/07/2011 16:07**
File ID: **4M59025**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,2,4-Trichlorobenzene	120-82-1		U	114	57.1
1,2-Dichlorobenzene	95-50-1		U	114	57.1
1,3-Dichlorobenzene	541-73-1		U	114	57.1
1,4-Dichlorobenzene	106-46-7		U	114	57.1
2,4,5-Trichlorophenol	95-95-4		U	114	57.1
2,4,6-Trichlorophenol	88-06-2		U	114	57.1
2,4-Dichlorophenol	120-83-2		U	114	57.1
2,4-Dimethylphenol	105-67-9		U	114	57.1
2,4-Dinitrophenol	51-28-5		U	571	285
2,4-Dinitrotoluene	121-14-2		U	114	57.1
2,6-Dinitrotoluene	606-20-2		U	114	57.1
2-Chloronaphthalene	91-58-7		U	114	57.1
2-Chlorophenol	95-57-8		U	114	57.1
2-Methylnaphthalene	91-57-6		U	114	57.1
2-Methylphenol	95-48-7		U	114	57.1
2-Nitroaniline	88-74-4		U	571	285
2-Nitrophenol	88-75-5		U	114	57.1
3,3'-Dichlorobenzidine	91-94-1		U	228	114
3-,4-Methylphenol	106-44-5		U	114	57.1
3-Nitroaniline	99-09-2		U	571	285
4,6-Dinitro-2-methylphenol	534-52-1		U	571	285
4-Bromophenyl-phenylether	101-55-3		U	114	57.1
4-Chloro-3-methylphenol	59-50-7		U	114	57.1
4-Chloroaniline	106-47-8		U	114	57.1
4-Chlorophenyl-phenyl ether	7005-72-3		U	114	57.1
4-Nitroaniline	100-01-6		U	571	285
4-Nitrophenol	100-02-7		U	571	285
Acenaphthene	83-32-9		U	114	57.1
Acenaphthylene	208-96-8		U	114	57.1
Anthracene	120-12-7		U	114	57.1
Benzo(a)anthracene	56-55-3		U	114	57.1
Benzo(a)pyrene	50-32-8		U	114	57.1
Benzo(b)fluoranthene	205-99-2		U	114	57.1

Report Number: **L11110790**
Report Date : **January 9, 2012**

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG383965**
Collect Date: **11/21/2011 18:05**
Sample Tag: **RE01**

PrePrep Method: **NONE**
Prep Method: **3550B**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **12/06/2011 13:11**
Cal Date: **12/02/2011 16:01**
Run Date: **12/07/2011 16:07**
File ID: **4M59025**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Benzo(g,h,i)Perylene	191-24-2		U	114	57.1
Benzo(k)fluoranthene	207-08-9		U	114	57.1
Benzoic acid	65-85-0		U	3460	228
Benzyl alcohol	100-51-6		U	114	57.1
Bis(2-Chloroethoxy)Methane	111-91-1		U	114	57.1
Bis(2-Chloroethyl)ether	111-44-4		U	114	57.1
bis(2-Chloroisopropyl)ether	108-60-1		U	114	57.1
bis(2-Ethylhexyl)phthalate	117-81-7		U	114	57.1
Butylbenzylphthalate	85-68-7		U	114	57.1
Chrysene	218-01-9		U	114	57.1
Di-N-Butylphthalate	84-74-2		U	114	57.1
Di-n-octylphthalate	117-84-0		U	114	57.1
Dibenzo(a,h)Anthracene	53-70-3		U	114	57.1
Dibenzofuran	132-64-9		U	114	57.1
Diethylphthalate	84-66-2		U	114	57.1
Dimethylphthalate	131-11-3		U	114	57.1
Fluoranthene	206-44-0		U	114	57.1
Fluorene	86-73-7		U	114	57.1
Hexachlorobenzene	118-74-1		U	114	57.1
Hexachlorobutadiene	87-68-3		U	114	57.1
Hexachlorocyclopentadiene	77-47-4		U	114	57.1
Hexachloroethane	67-72-1		U	114	57.1
Indeno(1,2,3-cd)pyrene	193-39-5		U	114	57.1
Isophorone	78-59-1		U	114	57.1
N-Nitrosodiphenylamine	86-30-6		U	114	57.1
N-Nitrosodipropylamine	621-64-7		U	114	57.1
Naphthalene	91-20-3		U	114	57.1
Nitrobenzene	98-95-3		U	114	57.1
Pentachlorophenol	87-86-5		U	571	285
Phenanthrene	85-01-8		U	114	57.1
Phenol	108-95-2		U	114	57.1
Pyrene	129-00-0		U	114	57.1

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	87.7	35	125	
2-Fluorobiphenyl	72.9	45	105	
2-Fluorophenol	74.7	35	105	
Nitrobenzene-d5	69.4	35	100	
p-Terphenyl-d14	111	30	125	
Phenol-d5	74.5	40	100	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG382999**
Collect Date: **11/21/2011 18:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/23/2011 16:15**
Cal Date: **11/10/2011 15:36**
Run Date: **11/24/2011 01:57**
File ID: **9M90003**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6		U	4.72	0.472
1,1,1-Trichloroethane	71-55-6		U	4.72	0.472
1,1,2,2-Tetrachloroethane	79-34-5		U	4.72	0.472
1,1,2-Trichloroethane	79-00-5		U	4.72	0.472
1,1-Dichloroethane	75-34-3		U	4.72	0.943
1,1-Dichloroethene	75-35-4		U	4.72	0.472
1,1-Dichloropropene	563-58-6		U	4.72	0.472

Report Number: **L11110790**
Report Date : **January 9, 2012**

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG382999**
Collect Date: **11/21/2011 18:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/23/2011 16:15**
Cal Date: **11/10/2011 15:36**
Run Date: **11/24/2011 01:57**
File ID: **9M90003**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,2,3-Trichlorobenzene	87-61-6		U	4.72	0.472
1,2,3-Trichloropropane	96-18-4		U	4.72	0.943
1,2,4-Trichlorobenzene	120-82-1		U	4.72	0.472
1,2,4-Trimethylbenzene	95-63-6		U	4.72	0.472
1,2-Dibromo-3-chloropropane	96-12-8		U	4.72	1.89
1,2-Dibromoethane	106-93-4		U	4.72	0.472
1,2-Dichlorobenzene	95-50-1		U	4.72	0.472
1,2-Dichloroethane	107-06-2		U	4.72	0.472
1,2-Dichloropropane	78-87-5		U	4.72	0.472
1,3,5-Trimethylbenzene	108-67-8		U	4.72	0.472
1,3-Dichlorobenzene	541-73-1		U	4.72	0.472
1,3-Dichloropropane	142-28-9		U	4.72	0.472
1,4-Dichlorobenzene	106-46-7		U	4.72	0.472
2,2-Dichloropropane	594-20-7		U	4.72	0.472
2-Butanone	78-93-3		U	4.72	2.36
2-Chloroethyl vinyl ether	110-75-8		U	4.72	1.89
2-Chlorotoluene	95-49-8		U	4.72	0.472
2-Hexanone	591-78-6		U	4.72	2.36
4-Chlorotoluene	106-43-4		U	4.72	0.472
4-Methyl-2-pentanone	108-10-1		U	4.72	2.36
Acetone	67-64-1		U	9.43	4.72
Benzene	71-43-2		U	4.72	0.472
Bromobenzene	108-86-1		U	4.72	0.472
Bromochloromethane	74-97-5		U	4.72	0.943
Bromodichloromethane	75-27-4		U	4.72	0.472
Bromoform	75-25-2		U	4.72	0.472
Bromomethane	74-83-9		U	4.72	0.943
Carbon disulfide	75-15-0		U	4.72	0.472
Carbon tetrachloride	56-23-5		U	4.72	0.472
Chlorobenzene	108-90-7		U	4.72	0.472
Chlorodibromomethane	124-48-1		U	4.72	0.472
Chloroethane	75-00-3		U	4.72	0.943
Chloroform	67-66-3		U	4.72	0.472
Chloromethane	74-87-3		U	4.72	1.89
cis-1,2-Dichloroethene	156-59-2		U	4.72	0.472
cis-1,3-Dichloropropene	10061-01-5		U	4.72	0.472
Dibromomethane	74-95-3		U	4.72	0.472
Dichlorodifluoromethane	75-71-8		U	4.72	0.943
Ethylbenzene	100-41-4		U	4.72	0.472
Hexachlorobutadiene	87-68-3		U	4.72	0.472
Isopropylbenzene	98-82-8		U	4.72	0.472
m-,p-Xylene	179601-23-1		U	4.72	0.472
Methylene chloride	75-09-2		U	4.72	0.943
n-Butylbenzene	104-51-8		U	4.72	0.472
n-Propylbenzene	103-65-1		U	4.72	0.472
Naphthalene	91-20-3		U	4.72	0.472
o-Xylene	95-47-6		U	4.72	0.472
p-Isopropyltoluene	99-87-6		U	4.72	0.472
sec-Butylbenzene	135-98-8		U	4.72	0.472
Styrene	100-42-5		U	4.72	0.472
tert-Butylbenzene	98-06-6		U	4.72	0.472
Tetrachloroethene	127-18-4		U	4.72	0.472
Toluene	108-88-3		U	4.72	0.472
trans-1,2-Dichloroethene	156-60-5		U	4.72	0.472
trans-1,3-Dichloropropene	10061-02-6		U	4.72	0.472
Trichloroethene	79-01-6		U	4.72	0.472
Trichlorofluoromethane	75-69-4		U	4.72	0.943
Vinyl acetate	108-05-4		U	4.72	2.36
Vinyl chloride	75-01-4		U	4.72	0.943

Report Number: **L11110790**
Report Date : **January 9, 2012**

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG382999**
Collect Date: **11/21/2011 18:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/23/2011 16:15**
Cal Date: **11/10/2011 15:36**
Run Date: **11/24/2011 01:57**
File ID: **9M90003**

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	95.9	80	120	
4-Bromofluorobenzene	93.2	85	120	
Dibromofluoromethane	97.3	80	120	
Toluene-d8	94.8	85	115	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11110790-01**
Client ID: **40 IDW SL 112111**
Matrix: **Solidwaste**
Workgroup Number: **WG383273**
Collect Date: **11/21/2011 18:05**

PrePrep Method: **NONE**
Prep Method: **9045D**
Analytical Method: **9045D**
Analyst: **HJR**
Dilution: **1**
Units: **UNITS**

Instrument: **ORION-4STAR**
Prep Date: **11/29/2011 13:40**
Cal Date:
Run Date: **11/29/2011 13:40**
File ID: **OS11113013500201**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	9.73			

Sample Number: **L11110790-02**
Client ID: **40 IDW SL 112111**
Matrix: **Leachate**
Workgroup Number: **WG383335**
Collect Date: **11/21/2011 18:05**
Sample Tag: **01**

PrePrep Method: **1311**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **EDL**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **11/29/2011 11:34**
Cal Date: **11/30/2011 09:48**
Run Date: **11/30/2011 10:41**
File ID: **HY.113011.104111**

Analyte	CAS.Number	Result	Qual	LOQ	LOD	EPA HW#	Reg. Limit
Mercury	7439-97-6		U	.002	.001	D009	.2

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11110790-02**
Client ID: **40 IDW SL 112111**
Matrix: **Leachate**
Workgroup Number: **WG383294**
Collect Date: **11/21/2011 18:05**
Sample Tag: **01**

PrePrep Method: **1311**
Prep Method: **3015**
Analytical Method: **6010B**
Analyst: **SLP**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **11/29/2011 13:09**
Cal Date: **11/29/2011 09:15**
Run Date: **11/29/2011 19:42**
File ID: **P2.112911.194219**

Analyte	CAS.Number	Result	Qual	LOQ	LOD	EPA HW#	Reg. Limit
Arsenic, TCLP	7440-38-2		U	1	.5	D004	5
Barium, TCLP	7440-39-3	2.19		.1	.05	D005	100
Cadmium, TCLP	7440-43-9		U	.1	.05	D006	1
Chromium, TCLP	7440-47-3		U	.2	.1	D007	5
Lead, TCLP	7439-92-1		U	1	.5	D008	5
Selenium, TCLP	7782-49-2	0.408	J	.8	.4	D010	1
Silver, TCLP	7440-22-4	0.0984	JB	.1	.05	D011	5

JB JB
U Analyte was not detected. The concentration is below the reported LOD.
J Estimated value ; the analyte concentration was less than the LOQ.

Report Number: **L11110790**
Report Date : **January 9, 2012**

Sample Number: **L11110790-03**
Client ID: **40 IDW D1 GW112111**
Matrix: **Water**
Workgroup Number: **WG385407**
Collect Date: **11/21/2011 17:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **SLP**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **12/20/2011 12:17**
Cal Date: **12/28/2011 08:32**
Run Date: **12/28/2011 08:57**
File ID: **HY.122811.085735**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Mercury	7439-97-6		U	0.000200	0.000100

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11110790-03**
Client ID: **40 IDW D1 GW112111**
Matrix: **Water**
Workgroup Number: **WG383211**
Collect Date: **11/21/2011 17:55**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **2**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **11/28/2011 08:38**
Cal Date: **12/01/2011 11:51**
Run Date: **12/01/2011 17:02**
File ID: **EL.120111.170214**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Arsenic, Total	7440-38-2	0.0157		0.00200	0.00100
Cadmium, Total	7440-43-9	0.00229		0.00120	0.000600
Chromium, Total	7440-47-3	0.158		0.00400	0.00200
Copper, Total	7440-50-8	0.233		0.00400	0.00200
Lead, Total	7439-92-1	0.0698		0.00200	0.00100
Nickel, Total	7440-02-0	0.137		0.00800	0.00400
Selenium, Total	7782-49-2	0.00165	J	0.00200	0.00100
Silver, Total	7440-22-4		U	0.00200	0.00100
Zinc, Total	7440-66-6	0.469		0.0500	0.0250

U Analyte was not detected. The concentration is below the reported LOD.
J Estimated value ; the analyte concentration was less than the LOQ.

Sample Number: **L11110790-03**
Client ID: **40 IDW D1 GW112111**
Matrix: **Water**
Workgroup Number: **WG383211**
Collect Date: **11/21/2011 17:55**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **100**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **11/28/2011 08:38**
Cal Date: **01/04/2012 09:11**
Run Date: **01/04/2012 11:13**
File ID: **EL.010412.111352**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Barium, Total	7440-39-3	1.49		0.300	0.150

Report Number: **L11110790**
Report Date : **January 9, 2012**

Sample Number: **L11110790-03**
Client ID: **40 IDW D1 GW112111**
Matrix: **Water**
Workgroup Number: **WG382805**
Collect Date: **11/21/2011 17:55**

PrePrep Method: **NONE**
Prep Method: **SM5210B**
Analytical Method: **SM5210B**
Analyst: **DLP**
Dilution: **1**
Units: **mg/L**

Instrument: **YSI-5000**
Prep Date: **11/23/2011 08:15**
Cal Date:
Run Date: **11/23/2011 08:15**
File ID: **00.1111230815-09**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Biochemical Oxygen Demand		**55.6**		**8.00**	**2.67**

Sample Number: **L11110790-03**
Client ID: **40 IDW D1 GW112111**
Matrix: **Water**
Workgroup Number: **WG383224**
Collect Date: **11/21/2011 17:55**

PrePrep Method: **NONE**
Prep Method: **HACH**
Analytical Method: **410.4 MOD**
Analyst: **DIH**
Dilution: **1**
Units: **mg/L**

Instrument: **UV-120-1V**
Prep Date: **11/29/2011 08:35**
Cal Date: **11/01/2011 08:30**
Run Date: **11/29/2011 08:35**
File ID: **1V.1111290835-22**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Chemical Oxygen Demand		**1140**		**150**	**10.0**

Sample Number: **L11110790-04**
Client ID: **40 IDW D2 GW112111**
Matrix: **Water**
Workgroup Number: **WG382805**
Collect Date: **11/21/2011 18:00**

PrePrep Method: **NONE**
Prep Method: **SM5210B**
Analytical Method: **SM5210B**
Analyst: **DLP**
Dilution: **1**
Units: **mg/L**

Instrument: **YSI-5000**
Prep Date: **11/23/2011 08:15**
Cal Date:
Run Date: **11/23/2011 08:15**
File ID: **00.1111230815-10**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Biochemical Oxygen Demand		**16.5**		**3.00**	**1.00**

Sample Number: **L11110790-04**
Client ID: **40 IDW D2 GW112111**
Matrix: **Water**
Workgroup Number: **WG383225**
Collect Date: **11/21/2011 18:00**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **410.4 MOD**
Analyst: **DIH**
Dilution: **1**
Units: **mg/L**

Instrument: **UV-120-1V**
Prep Date: **11/29/2011 08:36**
Cal Date: **11/01/2011 08:20**
Run Date: **11/29/2011 08:36**
File ID: **1V.1111290836-10**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Chemical Oxygen Demand		**102**		**20.0**	**10.0**

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG382999
Blank File ID:	9M89989	Blank Sample ID:	WG382999-01
Prep Date:	11/23/11 19:00	Instrument ID:	HPMS9
Analyzed Date:	11/23/11 19:00	Method:	8260B
Analyst:	TMB		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG382999-02	9M89990	11/23/11 19:30	01
40 IDW SL 112111	L11110790-01	9M90003	11/24/11 01:57	01

Report Name: BLANK_SUMMARY
PDF File ID: 2240718
Report generated 12/23/2011 08:20

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/23/11 19:00 Sample ID: WG382999-01
Instrument ID: HPMS9 Run Date: 11/23/11 19:00 Prep Method: 5030B/5030C/503
File ID: 9M89989 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG382999 Matrix: Solidwaste Units: ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.500	5.00	0.500	1	U
1,1,1-Trichloroethane	0.500	5.00	0.500	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	0.500	1	U
1,1,2-Trichloroethane	0.500	5.00	0.500	1	U
1,1-Dichloroethane	1.00	5.00	1.00	1	U
1,1-Dichloroethene	0.500	5.00	0.500	1	U
1,1-Dichloropropene	0.500	5.00	0.500	1	U
1,2,3-Trichlorobenzene	0.500	5.00	0.500	1	U
1,2,3-Trichloropropane	1.00	5.00	1.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	0.500	1	U
1,2,4-Trimethylbenzene	0.500	5.00	0.500	1	U
1,2-Dibromo-3-chloropropane	2.00	5.00	2.00	1	U
1,2-Dibromoethane	0.500	5.00	0.500	1	U
1,2-Dichlorobenzene	0.500	5.00	0.500	1	U
1,2-Dichloroethane	0.500	5.00	0.500	1	U
1,2-Dichloropropane	0.500	5.00	0.500	1	U
1,3,5-Trimethylbenzene	0.500	5.00	0.500	1	U
1,3-Dichlorobenzene	0.500	5.00	0.500	1	U
1,3-Dichloropropane	0.500	5.00	0.500	1	U
1,4-Dichlorobenzene	0.500	5.00	0.500	1	U
2,2-Dichloropropane	0.500	5.00	0.500	1	U
2-Butanone	2.50	5.00	2.50	1	U
2-Chloroethyl vinyl ether	2.00	5.00	2.00	1	U
2-Chlorotoluene	0.500	5.00	0.500	1	U
2-Hexanone	2.50	5.00	2.50	1	U
4-Chlorotoluene	0.500	5.00	0.500	1	U
4-Methyl-2-pentanone	2.50	5.00	2.50	1	U
Acetone	5.00	10.0	5.00	1	U
Benzene	0.500	5.00	0.500	1	U
Bromobenzene	0.500	5.00	0.500	1	U
Bromochloromethane	1.00	5.00	1.00	1	U
Bromodichloromethane	0.500	5.00	0.500	1	U
Bromoform	0.500	5.00	0.500	1	U
Bromomethane	1.00	5.00	1.00	1	U
Carbon disulfide	0.500	5.00	0.500	1	U
Carbon tetrachloride	0.500	5.00	0.500	1	U
Chlorobenzene	0.500	5.00	0.500	1	U
Chlorodibromomethane	0.500	5.00	0.500	1	U
Chloroethane	1.00	5.00	1.00	1	U
Chloroform	0.500	5.00	0.500	1	U
Chloromethane	2.00	5.00	2.00	1	U
cis-1,2-Dichloroethene	0.500	5.00	0.500	1	U

Report Name:BLANK
PDF ID: 2240719
23-DEC-2011 08:20

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/23/11 19:00 Sample ID: WG382999-01
Instrument ID: HPMS9 Run Date: 11/23/11 19:00 Prep Method: 5030B/5030C/503
File ID: 9M89989 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG382999 Matrix: Solidwaste Units: ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
cis-1,3-Dichloropropene	0.500	5.00	0.500	1	U
Dibromomethane	0.500	5.00	0.500	1	U
Dichlorodifluoromethane	1.00	5.00	1.00	1	U
Ethylbenzene	0.500	5.00	0.500	1	U
Hexachlorobutadiene	0.500	5.00	0.500	1	U
Isopropylbenzene	0.500	5.00	0.500	1	U
m-,p-Xylene	0.500	5.00	0.500	1	U
Methylene chloride	1.00	5.00	1.00	1	U
n-Butylbenzene	0.500	5.00	0.500	1	U
n-Propylbenzene	0.500	5.00	0.500	1	U
Naphthalene	0.500	5.00	0.500	1	U
o-Xylene	0.500	5.00	0.500	1	U
p-Isopropyltoluene	0.500	5.00	0.500	1	U
sec-Butylbenzene	0.500	5.00	0.500	1	U
Styrene	0.500	5.00	0.500	1	U
tert-Butylbenzene	0.500	5.00	0.500	1	U
Tetrachloroethene	0.500	5.00	0.500	1	U
Toluene	0.500	5.00	0.500	1	U
trans-1,2-Dichloroethene	0.500	5.00	0.500	1	U
trans-1,3-Dichloropropene	0.500	5.00	0.500	1	U
Trichloroethene	0.500	5.00	0.500	1	U
Trichlorofluoromethane	1.00	5.00	1.00	1	U
Vinyl acetate	2.50	5.00	2.50	1	U
Vinyl chloride	1.00	5.00	1.00	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	90.6	80 - 120	PASS
4-Bromofluorobenzene	93.0	85 - 120	PASS
Dibromofluoromethane	95.6	80 - 120	PASS
Toluene-d8	96.3	85 - 115	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2240719
23-DEC-2011 08:20

Login Number: L11110790 Run Date: 11/23/2011 Sample ID: WG382999-02
Instrument ID: HPMS9 Run Time: 19:30 Prep Method: 5030B/5030C/503
File ID: 9M89990 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG382999 Matrix: Solidwaste Units: ug/kg
QC Key: DOD4 Lot#: STD48720 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1,2-Tetrachloroethane	20.0	20.5	102	75 - 125	
1,1,1-Trichloroethane	20.0	21.0	105	70 - 135	
1,1,2,2-Tetrachloroethane	20.0	19.5	97.3	55 - 130	
1,1,2-Trichloroethane	20.0	18.4	91.9	60 - 125	
1,1-Dichloroethane	20.0	17.7	88.5	75 - 125	
1,1-Dichloroethene	20.0	17.6	88.2	65 - 135	
1,1-Dichloropropene	20.0	19.0	95.2	70 - 135	
1,2,3-Trichlorobenzene	20.0	21.1	106	60 - 135	
1,2,3-Trichloropropane	20.0	19.2	96.1	65 - 130	
1,2,4-Trichlorobenzene	20.0	19.7	98.6	65 - 130	
1,2,4-Trimethylbenzene	20.0	19.7	98.3	65 - 135	
1,2-Dibromo-3-chloropropane	20.0	21.6	108	40 - 135	
1,2-Dibromoethane	20.0	18.9	94.6	70 - 125	
1,2-Dichlorobenzene	20.0	19.9	99.7	75 - 120	
1,2-Dichloroethane	20.0	19.0	94.9	70 - 135	
1,2-Dichloropropane	20.0	16.6	83.0	70 - 120	
1,3,5-Trimethylbenzene	20.0	20.1	100	65 - 135	
1,3-Dichlorobenzene	20.0	19.5	97.7	70 - 125	
1,3-Dichloropropane	20.0	17.5	87.6	75 - 125	
1,4-Dichlorobenzene	20.0	19.6	98.0	70 - 125	
2,2-Dichloropropane	20.0	19.4	96.8	65 - 135	
2-Butanone	20.0	13.2	65.8	30 - 160	
2-Chloroethyl vinyl ether	20.0	15.9	79.5	35 - 154	
2-Chlorotoluene	20.0	19.5	97.5	70 - 130	
2-Hexanone	20.0	14.1	70.6	45 - 145	
4-Chlorotoluene	20.0	19.2	96.2	75 - 125	
4-Methyl-2-pentanone	20.0	14.6	73.2	45 - 145	
Acetone	20.0	13.8	69.2	20 - 160	
Benzene	20.0	18.2	90.9	75 - 125	
Bromobenzene	20.0	20.3	102	65 - 120	
Bromochloromethane	20.0	20.9	104	70 - 125	
Bromodichloromethane	20.0	17.5	87.7	70 - 130	
Bromoform	20.0	19.9	99.3	55 - 135	
Bromomethane	20.0	19.5	97.3	30 - 160	
Carbon disulfide	20.0	19.3	96.7	45 - 160	
Carbon tetrachloride	20.0	21.7	109	65 - 135	
Chlorobenzene	20.0	19.5	97.6	75 - 125	
Chlorodibromomethane	20.0	18.0	90.0	65 - 130	
Chloroethane	20.0	17.8	89.1	40 - 155	
Chloroform	20.0	19.1	95.3	70 - 125	
Chloromethane	20.0	21.5	108	50 - 130	

LCS - Modified 03/06/2008
PDF File ID: 2239105
Report generated: 12/23/2011 08:20

Login Number: L11110790 Run Date: 11/23/2011 Sample ID: WG382999-02
Instrument ID: HPMS9 Run Time: 19:30 Prep Method: 5030B/5030C/503
File ID: 9M89990 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG382999 Matrix: Solidwaste Units: ug/kg
QC Key: DOD4 Lot#: STD48720 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
cis-1,2-Dichloroethene	20.0	19.8	98.8	65 - 125	
cis-1,3-Dichloropropene	20.0	16.6	83.2	70 - 125	
Dibromomethane	20.0	20.1	101	75 - 130	
Dichlorodifluoromethane	20.0	24.1	120	35 - 135	
Ethylbenzene	20.0	19.9	99.5	75 - 125	
Hexachlorobutadiene	20.0	20.9	104	55 - 140	
Isopropylbenzene	20.0	17.5	87.7	75 - 130	
m-,p-Xylene	40.0	39.1	97.7	80 - 125	
Methylene chloride	20.0	18.7	93.6	55 - 140	
n-Butylbenzene	20.0	19.3	96.7	65 - 140	
n-Propylbenzene	20.0	19.0	95.2	65 - 135	
Naphthalene	20.0	21.4	107	40 - 125	
o-Xylene	20.0	19.4	97.2	75 - 125	
p-Isopropyltoluene	20.0	18.8	94.0	75 - 135	
sec-Butylbenzene	20.0	19.8	99.1	65 - 130	
Styrene	20.0	19.7	98.3	75 - 125	
tert-Butylbenzene	20.0	20.2	101	65 - 130	
Tetrachloroethene	20.0	20.0	100	65 - 140	
Toluene	20.0	18.3	91.4	70 - 125	
trans-1,2-Dichloroethene	20.0	17.7	88.3	65 - 135	
trans-1,3-Dichloropropene	20.0	17.3	86.4	65 - 125	
Trichloroethene	20.0	18.8	93.9	75 - 125	
Trichlorofluoromethane	20.0	21.7	108	25 - 185	
Vinyl acetate	20.0	16.2	81.1	10 - 150	
Vinyl chloride	20.0	24.5	122	60 - 125	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	91.2	80 - 120	PASS
4-Bromofluorobenzene	91.9	85 - 120	PASS
Dibromofluoromethane	96.7	80 - 120	PASS
Toluene-d8	94.5	85 - 115	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 2239105
Report generated: 12/23/2011 08:20

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383196
Blank File ID:	12M37726	Blank Sample ID:	WG383027-01
Prep Date:	11/28/11 08:46	Instrument ID:	HPMS12
Analyzed Date:	12/02/11 09:26	Method:	8270C
Analyst:	CAA		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383027-02	12M37727	12/02/11 09:58	01
LCS2	WG383027-03	12M37728	12/02/11 10:30	01
40 IDW SL 112111	L11110790-01	12M37732	12/02/11 12:40	01

Report Name: BLANK_SUMMARY
PDF File ID: 2242777
Report generated 12/09/2011 09:46

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383965
Blank File ID:	4M59012	Blank Sample ID:	WG383898-01
Prep Date:	12/06/11 13:11	Instrument ID:	HPMS4
Analyzed Date:	12/07/11 09:04	Method:	8270C
Analyst:	CAA		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383898-02	4M59013	12/07/11 09:37	01
LCS2	WG383898-03	4M59014	12/07/11 10:09	01
40 IDW SL 112111	L11110790-01	4M59025	12/07/11 16:07	RE01

Report Name: BLANK_SUMMARY
PDF File ID: 2242777
Report generated 12/09/2011 09:46

Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number:L11110790 Prep Date:11/28/11 08:46 Sample ID:WG383027-01
Instrument ID:HPMS12 Run Date:12/02/11 09:26 Prep Method:3545
File ID:12M37726 Analyst:CAA Method:8270C
Workgroup (AAB#):WG383196 Matrix:Solidwaste Units:ug/kg
Contract #: Cal ID:HPMS12-30-NOV-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	82.5	165	82.5	1	U
1,2-Dichlorobenzene	82.5	165	82.5	1	U
1,3-Dichlorobenzene	82.5	165	82.5	1	U
1,4-Dichlorobenzene	82.5	165	82.5	1	U
2,4,5-Trichlorophenol	82.5	165	82.5	1	U
2,4,6-Trichlorophenol	82.5	165	82.5	1	U
2,4-Dichlorophenol	82.5	165	82.5	1	U
2,4-Dimethylphenol	82.5	165	82.5	1	U
2,4-Dinitrophenol	412	825	412	1	U
2,4-Dinitrotoluene	82.5	165	82.5	1	U
2,6-Dinitrotoluene	82.5	165	82.5	1	U
2-Chloronaphthalene	82.5	165	82.5	1	U
2-Chlorophenol	82.5	165	82.5	1	U
2-Methylnaphthalene	82.5	165	82.5	1	U
2-Methylphenol	82.5	165	82.5	1	U
2-Nitroaniline	412	825	412	1	U
2-Nitrophenol	82.5	165	82.5	1	U
3,3'-Dichlorobenzidine	165	330	165	1	U
3-,4-Methylphenol	82.5	165	82.5	1	U
3-Nitroaniline	412	825	412	1	U
4,6-Dinitro-2-methylphenol	412	825	412	1	U
4-Bromophenyl-phenylether	82.5	165	82.5	1	U
4-Chloro-3-methylphenol	82.5	165	82.5	1	U
4-Chloroaniline	82.5	165	82.5	1	U
4-Chlorophenyl-phenyl ether	82.5	165	82.5	1	U
4-Nitroaniline	412	825	412	1	U
4-Nitrophenol	412	825	412	1	U
Acenaphthene	82.5	165	82.5	1	U
Acenaphthylene	82.5	165	82.5	1	U
Anthracene	82.5	165	82.5	1	U
Benzo(a)anthracene	82.5	165	82.5	1	U
Benzo(a)pyrene	82.5	165	82.5	1	U
Benzo(b)fluoranthene	82.5	165	82.5	1	U
Benzo(g,h,i)Perylene	82.5	165	82.5	1	U
Benzo(k)fluoranthene	82.5	165	82.5	1	U
Benzoic acid	330	5000	330	1	U
Benzyl alcohol	82.5	165	82.5	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	82.5	1	U
Bis(2-Chloroethyl)ether	82.5	165	82.5	1	U
bis(2-Chloroisopropyl)ether	82.5	165	82.5	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	82.5	1	U
Butylbenzylphthalate	82.5	165	82.5	1	U

Report Name:BLANK
PDF ID: 2242778
09-DEC-2011 09:46

Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/28/11 08:46 Sample ID: WG383027-01
Instrument ID: HPMS12 Run Date: 12/02/11 09:26 Prep Method: 3545
File ID: 12M37726 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG383196 Matrix: Solidwaste Units: ug/kg
Contract #: Cal ID: HPMS12-30-NOV-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Chrysene	82.5	165	82.5	1	U
Di-N-Butylphthalate	82.5	165	82.5	1	U
Di-n-octylphthalate	82.5	165	82.5	1	U
Dibenzo(a,h)Anthracene	82.5	165	82.5	1	U
Dibenzofuran	82.5	165	82.5	1	U
Diethylphthalate	82.5	165	82.5	1	U
Dimethylphthalate	82.5	165	82.5	1	U
Fluoranthene	82.5	165	82.5	1	U
Fluorene	82.5	165	82.5	1	U
Hexachlorobenzene	82.5	165	82.5	1	U
Hexachlorobutadiene	82.5	165	82.5	1	U
Hexachlorocyclopentadiene	82.5	165	82.5	1	U
Hexachloroethane	82.5	165	82.5	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	82.5	1	U
Isophorone	82.5	165	82.5	1	U
N-Nitrosodiphenylamine	82.5	165	82.5	1	U
N-Nitrosodipropylamine	82.5	165	82.5	1	U
Naphthalene	82.5	165	82.5	1	U
Nitrobenzene	82.5	165	82.5	1	U
Pentachlorophenol	412	825	412	1	U
Phenanthrene	82.5	165	82.5	1	U
Phenol	82.5	165	82.5	1	U
Pyrene	82.5	165	82.5	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,6-Tribromophenol	45.6	35	-	125	PASS
2-Fluorobiphenyl	52.2	45	-	105	PASS
2-Fluorophenol	61.9	35	-	105	PASS
Nitrobenzene-d5	54.2	35	-	100	PASS
p-Terphenyl-d14	75.5	30	-	125	PASS
Phenol-d5	56.8	40	-	100	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2242778
09-DEC-2011 09:46

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11110790 Prep Date:12/06/11 13:11 Sample ID:WG383898-01
Instrument ID:HPMS4 Run Date:12/07/11 09:04 Prep Method:3550B
File ID:4M59012 Analyst:CAA Method:8270C
Workgroup (AAB#):WG383965 Matrix:Solidwaste Units:ug/kg
Contract #: Cal ID: HPMS4-02-DEC-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	82.5	165	82.5	1	U
1,2-Dichlorobenzene	82.5	165	82.5	1	U
1,3-Dichlorobenzene	82.5	165	82.5	1	U
1,4-Dichlorobenzene	82.5	165	82.5	1	U
2,4,5-Trichlorophenol	82.5	165	82.5	1	U
2,4,6-Trichlorophenol	82.5	165	82.5	1	U
2,4-Dichlorophenol	82.5	165	82.5	1	U
2,4-Dimethylphenol	82.5	165	82.5	1	U
2,4-Dinitrophenol	412	825	412	1	U
2,4-Dinitrotoluene	82.5	165	82.5	1	U
2,6-Dinitrotoluene	82.5	165	82.5	1	U
2-Chloronaphthalene	82.5	165	82.5	1	U
2-Chlorophenol	82.5	165	82.5	1	U
2-Methylnaphthalene	82.5	165	82.5	1	U
2-Methylphenol	82.5	165	82.5	1	U
2-Nitroaniline	412	825	412	1	U
2-Nitrophenol	82.5	165	82.5	1	U
3,3'-Dichlorobenzidine	165	330	165	1	U
3-,4-Methylphenol	82.5	165	82.5	1	U
3-Nitroaniline	412	825	412	1	U
4,6-Dinitro-2-methylphenol	412	825	412	1	U
4-Bromophenyl-phenylether	82.5	165	82.5	1	U
4-Chloro-3-methylphenol	82.5	165	82.5	1	U
4-Chloroaniline	82.5	165	82.5	1	U
4-Chlorophenyl-phenyl ether	82.5	165	82.5	1	U
4-Nitroaniline	412	825	412	1	U
4-Nitrophenol	412	825	412	1	U
Acenaphthene	82.5	165	82.5	1	U
Acenaphthylene	82.5	165	82.5	1	U
Anthracene	82.5	165	82.5	1	U
Benzo(a)anthracene	82.5	165	82.5	1	U
Benzo(a)pyrene	82.5	165	82.5	1	U
Benzo(b)fluoranthene	82.5	165	82.5	1	U
Benzo(g,h,i)Perylene	82.5	165	82.5	1	U
Benzo(k)fluoranthene	82.5	165	82.5	1	U
Benzoic acid	330	5000	330	1	U
Benzyl alcohol	82.5	165	82.5	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	82.5	1	U
Bis(2-Chloroethyl)ether	82.5	165	82.5	1	U
bis(2-Chloroisopropyl)ether	82.5	165	82.5	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	82.5	1	U
Butylbenzylphthalate	82.5	165	82.5	1	U

Report Name:BLANK
PDF ID: 2242778
09-DEC-2011 09:46

Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 12/06/11 13:11 Sample ID: WG383898-01
Instrument ID: HPMS4 Run Date: 12/07/11 09:04 Prep Method: 3550B
File ID: 4M59012 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG383965 Matrix: Solidwaste Units: ug/kg
Contract #: Cal ID: HPMS4-02-DEC-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Chrysene	82.5	165	82.5	1	U
Di-N-Butylphthalate	82.5	165	82.5	1	U
Di-n-octylphthalate	82.5	165	82.5	1	U
Dibenzo(a,h)Anthracene	82.5	165	82.5	1	U
Dibenzofuran	82.5	165	82.5	1	U
Diethylphthalate	82.5	165	82.5	1	U
Dimethylphthalate	82.5	165	82.5	1	U
Fluoranthene	82.5	165	82.5	1	U
Fluorene	82.5	165	82.5	1	U
Hexachlorobenzene	82.5	165	82.5	1	U
Hexachlorobutadiene	82.5	165	82.5	1	U
Hexachlorocyclopentadiene	82.5	165	82.5	1	U
Hexachloroethane	82.5	165	82.5	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	82.5	1	U
Isophorone	82.5	165	82.5	1	U
N-Nitrosodiphenylamine	82.5	165	82.5	1	U
N-Nitrosodipropylamine	82.5	165	82.5	1	U
Naphthalene	82.5	165	82.5	1	U
Nitrobenzene	82.5	165	82.5	1	U
Pentachlorophenol	412	825	412	1	U
Phenanthrene	82.5	165	82.5	1	U
Phenol	82.5	165	82.5	1	U
Pyrene	82.5	165	82.5	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,6-Tribromophenol	87.2	35	-	125	PASS
2-Fluorobiphenyl	73.3	45	-	105	PASS
2-Fluorophenol	75.6	35	-	105	PASS
Nitrobenzene-d5	69.6	35	-	100	PASS
p-Terphenyl-d14	110	30	-	125	PASS
Phenol-d5	74.6	40	-	100	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2242778
09-DEC-2011 09:46

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 Analyst: CAA Prep Method: 3545
Instrument ID: HPMS12 Matrix: Solidwaste Method: 8270C
Workgroup (AAB#): WG383196 Units: ug/kg
QC Key: DOD4 Lot #: STD48246

Sample ID: WG383027-02 LCS File ID: 12M37727 Run Date: 12/02/2011 09:58
Sample ID: WG383027-03 LCS2 File ID: 12M37728 Run Date: 12/02/2011 10:30

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,2,4-Trichlorobenzene	1670	619	37.1	1670	727	43.6	16.0	45 - 110	30	*
1,2-Dichlorobenzene	1670	737	44.2	1670	834	50.0	12.3	45 - 100	30	*
1,3-Dichlorobenzene	1670	715	42.9	1670	791	47.5	10.1	40 - 100	30	
1,4-Dichlorobenzene	1670	737	44.2	1670	807	48.4	9.00	35 - 105	30	
2,4,5-Trichlorophenol	1670	834	50.0	1670	1230	73.6	38.1	50 - 110	30	#
2,4,6-Trichlorophenol	1670	819	49.1	1670	1140	68.6	33.1	45 - 110	30	#
2,4-Dichlorophenol	1670	714	42.8	1670	895	53.7	22.5	45 - 110	30	*
2,4-Dimethylphenol	1670	745	44.7	1670	942	56.5	23.3	30 - 105	30	
2,4-Dinitrophenol	1670	1170	70.0	1670	1430	86.0	20.5	15 - 130	30	
2,4-Dinitrotoluene	1670	1050	63.0	1670	1380	83.0	27.4	50 - 115	30	
2,6-Dinitrotoluene	1670	883	53.0	1670	1270	76.1	35.9	50 - 110	30	#
2-Chloronaphthalene	1670	704	42.2	1670	942	56.5	29.0	45 - 105	30	*
2-Chlorophenol	1670	754	45.2	1670	867	52.0	14.0	45 - 105	30	
2-Methylnaphthalene	1670	662	39.7	1670	837	50.2	23.4	45 - 105	30	*
2-Methylphenol	1670	761	45.7	1670	948	56.9	21.9	40 - 105	30	
2-Nitroaniline	1670	940	56.4	1670	1420	85.3	40.7	45 - 120	30	#
2-Nitrophenol	1670	709	42.6	1670	901	54.1	23.8	40 - 110	30	
3,3'-Dichlorobenzidine	1670	1890	113	1670	2230	134	16.4	10 - 130	30	*
3-,4-Methylphenol	1670	760	45.6	1670	913	54.8	18.3	40 - 105	30	
3-Nitroaniline	1670	1400	84.0	1670	1730	104	20.8	25 - 110	30	
4,6-Dinitro-2-methylphenol	1670	1320	79.5	1670	1560	93.7	16.4	30 - 135	30	
4-Bromophenyl-phenylether	1670	908	54.5	1670	1270	76.2	33.2	45 - 115	30	#
4-Chloro-3-methylphenol	1670	764	45.8	1670	1070	64.2	33.3	45 - 115	30	#
4-Chloroaniline	1670	715	42.9	1670	886	53.2	21.4	10 - 100	30	
4-Chlorophenyl-phenyl ether	1670	750	45.0	1670	1100	66.2	38.1	45 - 110	30	#
4-Nitroaniline	1670	1230	73.9	1670	1730	104	33.8	35 - 115	30	#
4-Nitrophenol	1670	1280	76.7	1670	1760	106	31.6	15 - 140	30	#
Acenaphthene	1670	765	45.9	1670	1120	67.2	37.7	45 - 110	30	#
Acenaphthylene	1670	658	39.5	1670	953	57.2	36.6	45 - 105	30	*#
Anthracene	1670	1150	68.7	1670	1500	90.2	27.0	55 - 105	30	
Benzo(a)anthracene	1670	1520	91.4	1670	1860	112	20.1	50 - 110	30	*
Benzo(a)pyrene	1670	1400	84.0	1670	1740	104	21.5	50 - 110	30	
Benzo(b)fluoranthene	1670	1290	77.2	1670	1590	95.1	20.8	45 - 115	30	
Benzo(g,h,i)Perylene	1670	1370	82.5	1670	1730	104	23.1	40 - 125	30	
Benzo(k)fluoranthene	1670	1520	91.3	1670	1870	112	20.5	45 - 125	30	
Benzoic acid	1670	1490	89.6	1670	1850	111	21.0	0 - 110	30	*
Benzyl alcohol	1670	700	42.0	1670	850	51.0	19.3	20 - 125	30	
Bis(2-Chloroethoxy)Methane	1670	479	28.7	1670	602	36.1	22.9	45 - 110	30	*
Bis(2-Chloroethyl)ether	1670	739	44.3	1670	902	54.1	19.9	40 - 105	30	
bis(2-Chloroisopropyl)ether	1670	972	58.3	1670	1190	71.5	20.3	20 - 115	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2242779
Report generated: 12/09/2011 09:46

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 Analyst: CAA Prep Method: 3545
Instrument ID: HPMS12 Matrix: Solidwaste Method: 8270C
Workgroup (AAB#): WG383196 Units: ug/kg
QC Key: DOD4 Lot #: STD48246

Sample ID: WG383027-02 LCS File ID: 12M37727 Run Date: 12/02/2011 09:58
Sample ID: WG383027-03 LCS2 File ID: 12M37728 Run Date: 12/02/2011 10:30

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
bis(2-Ethylhexyl)phthalate	1670	1670	100	1670	2030	122	19.1	45 - 125	30	
Butylbenzylphthalate	1670	1480	89.1	1670	1850	111	21.8	50 - 125	30	
Chrysene	1670	1570	94.4	1670	1940	117	21.1	55 - 110	30	*
Di-N-Butylphthalate	1670	1390	83.4	1670	1740	104	22.2	55 - 110	30	
Di-n-octylphthalate	1670	1610	96.4	1670	2000	120	21.6	40 - 130	30	
Dibenzo(a,h)Anthracene	1670	1300	77.7	1670	1620	97.1	22.1	40 - 125	30	
Dibenzofuran	1670	742	44.5	1670	1100	66.3	39.3	50 - 105	30	*#
Diethylphthalate	1670	1100	66.0	1670	1520	91.3	32.2	50 - 115	30	#
Dimethylphthalate	1670	843	50.6	1670	1200	72.0	34.9	50 - 110	30	#
Fluoranthene	1670	1430	85.5	1670	1750	105	20.7	55 - 115	30	
Fluorene	1670	789	47.4	1670	1180	70.7	39.5	50 - 110	30	*#
Hexachlorobenzene	1670	1050	62.9	1670	1360	81.7	26.0	45 - 120	30	
Hexachlorobutadiene	1670	777	46.6	1670	912	54.7	16.0	40 - 115	30	
Hexachlorocyclopentadiene	1670	439	26.3	1670	515	30.9	16.0	10 - 100	40	
Hexachloroethane	1670	705	42.3	1670	815	48.9	14.6	35 - 110	30	
Indeno(1,2,3-cd)pyrene	1670	1360	81.7	1670	1720	103	23.3	40 - 120	30	
Isophorone	1670	709	42.5	1670	926	55.6	26.6	45 - 110	30	*
N-Nitrosodiphenylamine	1670	1030	62.0	1670	1430	85.6	32.0	50 - 115	30	#
N-Nitrosodipropylamine	1670	696	41.8	1670	901	54.0	25.6	40 - 115	30	
Naphthalene	1670	793	47.6	1670	940	56.4	17.0	40 - 105	30	
Nitrobenzene	1670	738	44.3	1670	892	53.5	18.8	40 - 115	30	
Pentachlorophenol	1670	1460	87.3	1670	1760	106	19.2	25 - 120	30	
Phenanthrene	1670	1170	70.3	1670	1540	92.1	26.8	50 - 110	30	
Phenol	1670	789	47.3	1670	942	56.5	17.7	40 - 100	30	
Pyrene	1670	1430	85.5	1670	1730	104	19.4	45 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2,4,6-Tribromophenol	55.3	75.2	35 - 125	PASS
2-Fluorobiphenyl	44.9	59.9	45 - 105	FAIL
2-Fluorophenol	51.0	56.8	35 - 105	PASS
Nitrobenzene-d5	45.5	54.7	35 - 100	PASS
p-Terphenyl-d14	95.0	118	30 - 125	PASS
Phenol-d5	47.0	56.9	40 - 100	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2242779
Report generated: 12/09/2011 09:46

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number:L11110790 Analyst:CAA Prep Method:3550B
Instrument ID:HPMS4 Matrix:Solidwaste Method:8270C
Workgroup (AAB#):WG383965 Units:ug/kg
QC Key:DOD4 Lot #:STD48246

Sample ID:WG383898-02 LCS File ID:4M59013 Run Date:12/07/2011 09:37
Sample ID:WG383898-03 LCS2 File ID:4M59014 Run Date:12/07/2011 10:09

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,2,4-Trichlorobenzene	2500	1590	63.4	2500	1550	61.8	2.49	45 - 110	30	
1,2-Dichlorobenzene	2500	1650	66.1	2500	1560	62.5	5.53	45 - 100	30	
1,3-Dichlorobenzene	2500	1620	64.8	2500	1520	60.8	6.50	40 - 100	30	
1,4-Dichlorobenzene	2500	1640	65.7	2500	1560	62.3	5.24	35 - 105	30	
2,4,5-Trichlorophenol	2500	2040	81.6	2500	2170	87.0	6.38	50 - 110	30	
2,4,6-Trichlorophenol	2500	1980	79.4	2500	2070	82.6	4.05	45 - 110	30	
2,4-Dichlorophenol	2500	1820	72.7	2500	1830	73.3	0.815	45 - 110	30	
2,4-Dimethylphenol	2500	1910	76.3	2500	1940	77.6	1.70	30 - 105	30	
2,4-Dinitrophenol	2500	2100	84.0	2500	2070	82.8	1.40	15 - 130	30	
2,4-Dinitrotoluene	2500	2350	93.9	2500	2320	92.8	1.19	50 - 115	30	
2,6-Dinitrotoluene	2500	2130	85.1	2500	2120	84.7	0.465	50 - 110	30	
2-Chloronaphthalene	2500	1760	70.3	2500	1860	74.6	5.90	45 - 105	30	
2-Chlorophenol	2500	1690	67.6	2500	1610	64.5	4.67	45 - 105	30	
2-Methylnaphthalene	2500	1740	69.5	2500	1820	72.7	4.46	45 - 105	30	
2-Methylphenol	2500	1800	72.1	2500	1780	71.2	1.27	40 - 105	30	
2-Nitroaniline	2500	2120	84.6	2500	2200	88.0	3.91	45 - 120	30	
2-Nitrophenol	2500	1750	69.9	2500	1790	71.5	2.30	40 - 110	30	
3,3'-Dichlorobenzidine	2500	1980	79.3	2500	1950	78.1	1.53	10 - 130	30	
3-,4-Methylphenol	2500	1820	72.6	2500	1840	73.8	1.58	40 - 105	30	
3-Nitroaniline	2500	2020	81.0	2500	2020	80.9	0.0752	25 - 110	30	
4,6-Dinitro-2-methylphenol	2500	2440	97.4	2500	2400	96.2	1.33	30 - 135	30	
4-Bromophenyl-phenylether	2500	2220	89.0	2500	2180	87.2	2.00	45 - 115	30	
4-Chloro-3-methylphenol	2500	1980	79.3	2500	2110	84.4	6.26	45 - 115	30	
4-Chloroaniline	2500	1820	73.0	2500	1830	73.3	0.475	10 - 100	30	
4-Chlorophenyl-phenyl ether	2500	2050	82.0	2500	2080	83.1	1.32	45 - 110	30	
4-Nitroaniline	2500	1840	73.8	2500	1890	75.7	2.67	35 - 115	30	
4-Nitrophenol	2500	2210	88.2	2500	2170	86.7	1.76	15 - 140	30	
Acenaphthene	2500	1900	76.1	2500	1990	79.8	4.70	45 - 110	30	
Acenaphthylene	2500	1730	69.3	2500	1820	73.0	5.13	45 - 105	30	
Anthracene	2500	2370	94.9	2500	2320	93.0	2.08	55 - 105	30	
Benzo(a)anthracene	2500	2450	98.1	2500	2390	95.4	2.81	50 - 110	30	
Benzo(a)pyrene	2500	2380	95.3	2500	2330	93.0	2.42	50 - 110	30	
Benzo(b)fluoranthene	2500	2190	87.7	2500	2150	85.9	2.04	45 - 115	30	
Benzo(g,h,i)Perylene	2500	2430	97.2	2500	2370	94.9	2.42	40 - 125	30	
Benzo(k)fluoranthene	2500	2590	104	2500	2500	99.8	3.83	45 - 125	30	
Benzoic acid	2500	3060	123	2500	3260	130	6.27	0 - 110	30	*
Benzyl alcohol	2500	1880	75.1	2500	1890	75.4	0.460	20 - 125	30	
Bis(2-Chloroethoxy)Methane	2500	1310	52.3	2500	1360	54.4	3.95	45 - 110	30	
Bis(2-Chloroethyl)ether	2500	1650	65.9	2500	1610	64.3	2.43	40 - 105	30	
bis(2-Chloroisopropyl)ether	2500	2000	80.1	2500	1970	79.0	1.43	20 - 115	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2242779
Report generated: 12/09/2011 09:46

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 Analyst: CAA Prep Method: 3550B
Instrument ID: HPMS4 Matrix: Solidwaste Method: 8270C
Workgroup (AAB#): WG383965 Units: ug/kg
QC Key: DOD4 Lot #: STD48246

Sample ID: WG383898-02 LCS File ID: 4M59013 Run Date: 12/07/2011 09:37
Sample ID: WG383898-03 LCS2 File ID: 4M59014 Run Date: 12/07/2011 10:09

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
bis(2-Ethylhexyl)phthalate	2500	2510	100	2500	2420	96.8	3.63	45 - 125	30	
Butylbenzylphthalate	2500	2370	94.8	2500	2310	92.4	2.64	50 - 125	30	
Chrysene	2500	2490	99.7	2500	2420	96.7	2.99	55 - 110	30	
Di-N-Butylphthalate	2500	2630	105	2500	2390	95.6	9.48	55 - 110	30	
Di-n-octylphthalate	2500	2440	97.6	2500	2390	95.7	1.93	40 - 130	30	
Dibenzo(a,h)Anthracene	2500	2290	91.5	2500	2180	87.2	4.85	40 - 125	30	
Dibenzofuran	2500	2070	82.6	2500	2140	85.8	3.72	50 - 105	30	
Diethylphthalate	2500	2300	91.9	2500	2250	90.2	1.87	50 - 115	30	
Dimethylphthalate	2500	2070	82.9	2500	2050	82.2	0.863	50 - 110	30	
Fluoranthene	2500	2500	99.8	2500	2420	96.9	3.02	55 - 115	30	
Fluorene	2500	2090	83.7	2500	2120	84.8	1.28	50 - 110	30	
Hexachlorobenzene	2500	2300	91.9	2500	2270	90.6	1.42	45 - 120	30	
Hexachlorobutadiene	2500	1850	74.0	2500	1790	71.6	3.30	40 - 115	30	
Hexachlorocyclopentadiene	2500	1130	45.2	2500	1180	47.1	4.14	10 - 100	40	
Hexachloroethane	2500	1600	64.2	2500	1500	60.2	6.44	35 - 110	30	
Indeno(1,2,3-cd)pyrene	2500	2430	97.2	2500	2360	94.3	3.00	40 - 120	30	
Isophorone	2500	1830	73.3	2500	1940	77.6	5.64	45 - 110	30	
N-Nitrosodiphenylamine	2500	2280	91.1	2500	2250	89.9	1.31	50 - 115	30	
N-Nitrosodipropylamine	2500	1850	73.9	2500	1950	78.0	5.38	40 - 115	30	
Naphthalene	2500	1930	77.2	2500	1930	77.1	0.209	40 - 105	30	
Nitrobenzene	2500	1680	67.4	2500	1690	67.4	0.0342	40 - 115	30	
Pentachlorophenol	2500	2730	109	2500	2680	107	1.97	25 - 120	30	
Phenanthrene	2500	2400	96.1	2500	2350	94.0	2.23	50 - 110	30	
Phenol	2500	1780	71.3	2500	1720	68.6	3.74	40 - 100	30	
Pyrene	2500	2330	93.3	2500	2290	91.4	1.99	45 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2,4,6-Tribromophenol	102	98.6	35 - 125	PASS
2-Fluorobiphenyl	74.8	76.9	45 - 105	PASS
2-Fluorophenol	70.9	64.9	35 - 105	PASS
Nitrobenzene-d5	68.4	66.5	35 - 100	PASS
p-Terphenyl-d14	105	103	30 - 125	PASS
Phenol-d5	71.8	69.0	40 - 100	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2242779
Report generated: 12/09/2011 09:46

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383270
Blank File ID:	9GF66204.F	Blank Sample ID:	WG383030-01
Prep Date:	11/28/11 11:21	Instrument ID:	HP9
Analyzed Date:	11/30/11 17:34	Method:	8082
Analyst:	ECL		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383030-02	9GF66205.F	11/30/11 17:52	01
LCS2	WG383030-03	9GF66206.F	11/30/11 18:09	01
40 IDW SL 112111	L11110790-01	9GF66208.F	11/30/11 18:45	01

Report Name: BLANK_SUMMARY
PDF File ID: 2241124
Report generated 12/02/2011 14:12

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/28/11 11:21 Sample ID: WG383030-01
Instrument ID: HP9 Run Date: 11/30/11 17:34 Prep Method: 3550B
File ID: 9GF66204.F Analyst: ECL Method: 8082
Workgroup (AAB#): WG383270 Matrix: Solidwaste Units: ug/kg
Contract #: Cal ID: HP9-26-AUG-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Aroclor-1016	8.25	16.5	8.25	1	U
Aroclor-1221	8.25	16.5	8.25	1	U
Aroclor-1232	8.25	16.5	8.25	1	U
Aroclor-1242	8.25	16.5	8.25	1	U
Aroclor-1248	8.25	16.5	8.25	1	U
Aroclor-1254	8.25	16.5	8.25	1	U
Aroclor-1260	8.25	16.5	8.25	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,5,6-Tetrachloro-m-Xylene	57.0	29	-	133	PASS
Decachlorobiphenyl	80.3	60	-	125	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2241125
02-DEC-2011 14:12

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 Analyst: ECL Prep Method: 3550B
Instrument ID: HP9 Matrix: Solidwaste Method: 8082
Workgroup (AAB#): WG383270 Units: ug/kg
QC Key: DOD4 Lot #: STD47572

Sample ID: WG383030-02 LCS File ID: 9GF66205.F Run Date: 11/30/2011 17:52
Sample ID: WG383030-03 LCS2 File ID: 9GF66206.F Run Date: 11/30/2011 18:09

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Aroclor-1016	83.3	65.0	78.0	83.3	70.5	84.6	8.16	40 - 140	30	
Aroclor-1260	83.3	62.8	75.3	83.3	64.6	77.5	2.92	60 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2,4,5,6-Tetrachloro-m-Xylene	62.0	70.5	29 - 133	PASS
Decachlorobiphenyl	84.5	87.5	60 - 125	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2241126
Report generated: 12/02/2011 14:12

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383493
Blank File ID:	5L005914.F	Blank Sample ID:	WG383301-02
Prep Date:	11/30/11 08:00	Instrument ID:	HPLC5
Analyzed Date:	12/02/11 11:06	Method:	8330B
Analyst:	ECL		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383301-03	5L005915.F	12/02/11 11:45	01
40 IDW SL 112111	L11110790-01	5L005916.F	12/02/11 12:24	01
DUP	WG383301-07	5L005919.F	12/02/11 14:21	01
DUP	WG383301-08	5L005920.F	12/02/11 15:00	01

Report Name: BLANK_SUMMARY
PDF File ID: 2243486
Report generated 12/06/2011 13:36

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383493
Blank File ID:	4L022953.F	Blank Sample ID:	WG383301-02
Prep Date:	11/30/11 08:00	Instrument ID:	HPLC4
Analyzed Date:	12/05/11 14:45	Method:	8330B
Analyst:	ECL		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383301-04	4L022954.F	12/05/11 15:05	01
40 IDW SL 112111	L11110790-01	4L022955.F	12/05/11 15:24	02

Report Name: BLANK_SUMMARY
PDF File ID: 2243486
Report generated 12/06/2011 13:36

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/30/11 08:00 Sample ID: WG383301-02
Instrument ID: HPLC5 Run Date: 12/02/11 11:06 Prep Method: METHOD
File ID: 5L005914.F Analyst: ECL Method: 8330B
Workgroup (AAB#): WG383493 Matrix: Solidwaste Units: mg/kg
Contract #: Cal ID: HPLC5-10-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
1,3,5-Trinitrobenzene	0.100	0.250	0.100	1	U
1,3-Dinitrobenzene	0.100	0.250	0.100	1	U
2,4,6-Trinitrotoluene	0.100	0.250	0.100	1	U
2,4-Dinitrotoluene	0.100	0.250	0.100	1	U
2,6-Dinitrotoluene	0.100	0.250	0.100	1	U
2-Amino-4,6-dinitrotoluene	0.100	0.250	0.100	1	U
2-Nitrotoluene	0.100	0.250	0.100	1	U
3-Nitrotoluene	0.100	0.250	0.100	1	U
4-Nitrotoluene	0.100	0.250	0.100	1	U
4-Amino-2,6-dinitrotoluene	0.100	0.250	0.100	1	U
HMX	0.100	0.250	0.100	1	U
Nitrobenzene	0.100	0.250	0.100	1	U
RDX	0.100	0.250	0.100	1	U
Tetryl	0.100	0.250	0.100	1	U
Nitroglycerin	0.100	0.250	0.100	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dinitrobenzene	110	50 - 150	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2243487
06-DEC-2011 13:36

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/30/11 08:00 Sample ID: WG383301-02
Instrument ID: HPLC4 Run Date: 12/05/11 14:45 Prep Method: METHOD
File ID: 4L022953.F Analyst: ECL Method: 8330B
Workgroup (AAB#): WG383493 Matrix: Solidwaste Units: mg/kg
Contract #: Cal ID: HPLC4-01-NOV-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
PETN	0.100	0.250	0.100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2243487
06-DEC-2011 13:36

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 Run Date: 12/02/2011 Sample ID: WG383301-03
Instrument ID: HPLC5 Run Time: 11:45 Prep Method: METHOD
File ID: 5L005915.F Analyst: ECL Method: 8330B
Workgroup (AAB#): WG383493 Matrix: Solidwaste Units: mg/kg
QC Key: DOD4 Lot#: STD48665 Cal ID: HPLC5-10-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,3,5-Trinitrobenzene	0.500	0.536	107	75 - 125	
1,3-Dinitrobenzene	0.500	0.537	107	80 - 125	
2,4,6-Trinitrotoluene	0.500	0.508	102	55 - 140	
2,4-Dinitrotoluene	0.500	0.547	109	80 - 125	
2,6-Dinitrotoluene	0.500	0.533	107	80 - 120	
2-Amino-4,6-dinitrotoluene	0.500	0.519	104	80 - 125	
2-Nitrotoluene	0.500	0.553	111	80 - 125	
3-Nitrotoluene	0.500	0.470	94.0	75 - 120	
4-Nitrotoluene	0.500	0.490	98.0	75 - 125	
4-Amino-2,6-dinitrotoluene	0.500	0.505	101	80 - 125	
HMX	0.500	0.520	104	75 - 125	
Nitrobenzene	0.500	0.620	124	75 - 125	
RDX	0.500	0.452	90.4	70 - 135	
Tetryl	0.500	0.592	118	10 - 150	
Nitroglycerin	0.500	0.484	96.8	50 - 150	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dinitrobenzene	105	50 - 150	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 2243498
Report generated: 12/06/2011 13:36

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 Run Date: 12/05/2011 Sample ID: WG383301-04
Instrument ID: HPLC4 Run Time: 15:05 Prep Method: METHOD
File ID: 4L022954.F Analyst: ECL Method: 8330B
Workgroup (AAB#): WG383493 Matrix: Solidwaste Units: mg/kg
QC Key: DOD4 Lot#: STD48665 Cal ID: HPLC4-01-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
PETN	0.500	0.529	106	30 - 140	

LCS - Modified 03/06/2008
PDF File ID: 2243498
Report generated: 12/06/2011 13:36

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383294
Blank File ID:	P2.112911.181239	Blank Sample ID:	WG383255-02
Prep Date:	11/29/11 13:09	Instrument ID:	PE-ICP2
Analyzed Date:	11/29/11 18:12	Method:	6010B
Analyst:	SLP		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383255-03	P2.112911.181935	11/29/11 18:19	01
40 IDW SL 112111	L11110790-02	P2.112911.194219	11/29/11 19:42	01

Report Name: BLANK_SUMMARY
PDF File ID: 2238811
Report generated 11/30/2011 09:37

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/29/11 13:09 Sample ID: WG383255-02
Instrument ID: PE-ICP2 Run Date: 11/29/11 18:12 Prep Method: 3015
File ID: P2.112911.181239 Analyst: SLP Method: 6010B
Workgroup (AAB#): WG383294 Matrix: Leachate Units: mg/L
Contract #: Cal ID: PE-ICP-29-NOV-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Arsenic, TCLP	0.500	1.00	0.500	1	U
Barium, TCLP	0.0500	0.100	0.0500	1	U
Cadmium, TCLP	0.0500	0.100	0.0500	1	U
Chromium, TCLP	0.100	0.200	0.100	1	U
Lead, TCLP	0.500	1.00	0.500	1	U
Selenium, TCLP	0.400	0.800	0.400	1	U
Silver, TCLP	0.0500	0.100	0.0500	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2238812
30-NOV-2011 09:37

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 **Run Date:** 11/29/2011 **Sample ID:** WG383255-03
Instrument ID: PE-ICP2 **Run Time:** 18:19 **Prep Method:** 3015
File ID: P2.112911.181935 **Analyst:** SLP **Method:** 6010B
Workgroup (AAB#): WG383294 **Matrix:** Leachate **Units:** mg/L
QC Key: DOD4 **Lot#:** STD48461 **Cal ID:** PE-ICP-29-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, TCLP	2.00	1.87	93.7	80 - 120	
Barium, TCLP	5.00	4.87	97.4	80 - 120	
Cadmium, TCLP	0.250	0.236	94.4	80 - 120	
Chromium, TCLP	2.50	2.45	98.2	80 - 120	
Lead, TCLP	2.50	2.37	94.7	80 - 120	
Selenium, TCLP	2.00	1.75	87.7	80 - 120	
Silver, TCLP	2.00	1.99	99.6	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 2238813
Report generated: 11/30/2011 09:37

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11110790 Cal ID:PE-ICP2- Worknum:WG383294

Instrument ID:PE-ICP2 Contract #: Method:6010B

Parent ID:WG383255-01 File ID:P2.112911.190748 Dil:1 Matrix:WATER

Sample ID:WG383255-04 MS File ID:P2.112911.191442 Dil:1 Units:mg/L

Sample ID:WG383255-05 MSD File ID:P2.112911.193523 Dil:1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic, TCLP	ND	2.00	1.99	99.6	2.00	1.99	99.3	0.345	80 - 120	20	
Barium, TCLP	1.13	5.00	6.10	99.3	5.00	6.08	98.9	0.298	80 - 120	20	
Cadmium, TCLP	ND	0.250	0.246	98.5	0.250	0.250	99.9	1.39	80 - 120	20	
Chromium, TCLP	ND	2.50	2.53	101	2.50	2.53	101	0.158	80 - 120	20	
Lead, TCLP	ND	2.50	2.45	98.2	2.50	2.47	98.7	0.557	80 - 120	20	
Selenium, TCLP	ND	2.00	1.86	92.9	2.00	1.88	93.8	1.01	80 - 120	20	
Silver, TCLP	0.0552	2.00	2.06	100	2.00	2.06	100	0.0575	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 05/26/2011

PDF File ID: 2238814

Report generated 11/30/2011 09:37

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383211
Blank File ID:	EL.120111.151306	Blank Sample ID:	WG383037-03
Prep Date:	11/28/11 08:38	Instrument ID:	ELAN-ICP
Analyzed Date:	12/01/11 15:13	Method:	6020
Analyst:	JYH		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383037-04	EL.120111.152022	12/01/11 15:20	01
DUP	WG383037-08	EL.120111.154210	12/01/11 15:42	DL01
40 IDW D1 GW112111	L11110790-03	EL.120111.170214	12/01/11 17:02	DL01
40 IDW D1 GW112111	L11110790-03	EL.010412.111352	01/04/12 11:13	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 2241638
Report generated 01/04/2012 12:39

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11110790 Prep Date:11/28/11 08:38 Sample ID:WG383037-03
Instrument ID:ELAN-ICP Run Date:12/01/11 15:13 Prep Method:3015
File ID:EL.120111.151306 Analyst:JYH Method:6020
Workgroup (AAB#):WG383211 Matrix:Water Units:mg/L
Contract #: Cal ID:ELAN-I-01-DEC-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Arsenic, Total	0.000500	0.00100	0.000500	1	U
Barium, Total	0.00150	0.00300	0.00150	1	U
Cadmium, Total	0.000300	0.000600	0.000300	1	U
Chromium, Total	0.00100	0.00200	0.00100	1	U
Copper, Total	0.00100	0.00200	0.00100	1	U
Lead, Total	0.000500	0.00100	0.000500	1	U
Nickel, Total	0.00200	0.00400	0.00200	1	U
Selenium, Total	0.000500	0.00100	0.000500	1	U
Silver, Total	0.000500	0.00100	0.000500	1	U
Zinc, Total	0.0125	0.0250	0.0125	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2241639
04-JAN-2012 12:39

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 **Run Date:** 12/01/2011 **Sample ID:** WG383037-04
Instrument ID: ELAN-ICP **Run Time:** 15:20 **Prep Method:** 3015
File ID: EL.120111.152022 **Analyst:** JYH **Method:** 6020
Workgroup (AAB#): WG383211 **Matrix:** Water **Units:** mg/L
QC Key: DOD4 **Lot#:** STD47574 **Cal ID:** ELAN-I-01-DEC-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Total	0.0625	0.0667	107	80 - 120	
Barium, Total	0.0625	0.0647	104	80 - 120	
Cadmium, Total	0.0625	0.0636	102	80 - 120	
Chromium, Total	0.0625	0.0656	105	80 - 120	
Copper, Total	0.0625	0.0628	100	80 - 120	
Lead, Total	0.0625	0.0647	103	80 - 120	
Nickel, Total	0.0625	0.0649	104	80 - 120	
Selenium, Total	0.0625	0.0694	111	80 - 120	
Silver, Total	0.0625	0.0626	100	80 - 120	
Zinc, Total	0.0625	0.0622	99.5	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 2241640
Report generated: 01/04/2012 12:39

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11110790 Cal ID: ELAN-ICP- Worknum:WG383211

Instrument ID:ELAN-ICP Contract #: Method:6020

Parent ID:WG383037-01 File ID:EL.120111.171648 Dil:2 Matrix:WATER

Sample ID:WG383037-05 MS File ID:EL.120111.175314 Dil:2 Units:mg/L

Sample ID:WG383037-06 MSD File ID:EL.120111.180033 Dil:2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic, Total	0.000581	0.0625	0.0682	108	0.0625	0.0726	115	6.22	80 - 120	20	
Barium, Total	0.0571	0.0625	0.118	97.8	0.0625	0.127	112	7.15	80 - 120	20	
Cadmium, Total	ND	0.0625	0.0629	101	0.0625	0.0666	107	5.70	80 - 120	20	
Chromium, Total	0.00389	0.0625	0.0671	101	0.0625	0.0706	107	5.17	80 - 120	20	
Copper, Total	0.00175	0.0625	0.0606	94.1	0.0625	0.0643	100	6.02	80 - 120	20	
Lead, Total	0.000870	0.0625	0.0641	101	0.0625	0.0693	110	7.78	80 - 120	20	
Nickel, Total	0.00453	0.0625	0.0656	97.7	0.0625	0.0698	104	6.18	80 - 120	20	
Silver, Total	ND	0.0625	0.0582	93.1	0.0625	0.0629	101	7.69	80 - 120	20	
Zinc	0.0249	0.0625	0.0623	59.9	0.0625	0.0666	66.7	6.60	80 - 120	20	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 05/26/2011

PDF File ID: 2241641

Report generated 01/05/2012 20:13

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11110790 Cal ID: ELAN-ICP- Worknum:WG383211

Instrument ID:ELAN-ICP Contract #: Method:6020

Parent ID:WG383037-01 File ID:EL.120611.223220 Dil:2 Matrix:WATER

Sample ID:WG383037-05 MS File ID:EL.120611.230957 Dil:2 Units:mg/L

Sample ID:WG383037-06 MSD File ID:EL.120611.231726 Dil:2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Selenium, Total	0.00131	0.0625	0.0622	97.3	0.0625	0.0635	99.5	2.13	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 05/26/2011

PDF File ID: 2241641

Report generated 01/05/2012 20:13

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG385407
Blank File ID:	HY.122111.145745	Blank Sample ID:	WG385279-02
Prep Date:	12/20/11 12:17	Instrument ID:	HYDRA
Analyzed Date:	12/21/11 14:57	Method:	7470A
Analyst:	EDL		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG385279-03	HY.122111.145957	12/21/11 14:59	01
LCS	WG385279-03	HY.122811.085554	12/28/11 08:55	02
40 IDW D1 GW112111	L11110790-03	HY.122811.085735	12/28/11 08:57	01

Report Name: BLANK_SUMMARY
PDF File ID: 2268649
Report generated 12/28/2011 15:18

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG385407
Blank File ID:	HY.122811.085402	Blank Sample ID:	WG385279-02
Prep Date:	12/20/11 12:17	Instrument ID:	HYDRA
Analyzed Date:	12/28/11 08:54	Method:	7470A
Analyst:	SLP		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG385279-03	HY.122111.145957	12/21/11 14:59	01
LCS	WG385279-03	HY.122811.085554	12/28/11 08:55	02
40 IDW D1 GW112111	L11110790-03	HY.122811.085735	12/28/11 08:57	01

Report Name: BLANK_SUMMARY
PDF File ID: 2268649
Report generated 12/28/2011 15:18

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383335
Blank File ID:	HY.113011.100454	Blank Sample ID:	WG383241-03
Prep Date:	11/29/11 11:34	Instrument ID:	HYDRA
Analyzed Date:	11/30/11 10:04	Method:	7470A
Analyst:	EDL		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383241-04	HY.113011.100639	11/30/11 10:06	01
40 IDW SL 112111	L11110790-02	HY.113011.104111	11/30/11 10:41	01
DUP	WG383241-07	HY.113011.104520	11/30/11 10:45	01

Report Name: BLANK_SUMMARY
PDF File ID: 2239276
Report generated 11/30/2011 11:56

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 12/20/11 12:17 Sample ID: WG385279-02
Instrument ID: HYDRA Run Date: 12/21/11 14:57 Prep Method: 7470A
File ID: HY.122111.145745 Analyst: EDL Method: 7470A
Workgroup (AAB#): WG385407 Matrix: Water Units: mg/L
Contract #: Cal ID: HYDRA-21-DEC-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Mercury	0.000100	0.000200	0.000162	1	*

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2268650
28-DEC-2011 15:18

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 12/20/11 12:17 Sample ID: WG385279-02
Instrument ID: HYDRA Run Date: 12/28/11 08:54 Prep Method: 7470A
File ID: HY.122811.085402 Analyst: SLP Method: 7470A
Workgroup (AAB#): WG385407 Matrix: Water Units: mg/L
Contract #: Cal ID: HYDRA-28-DEC-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Mercury	0.000100	0.000200	0.000100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2268650
28-DEC-2011 15:18

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/29/11 11:34 Sample ID: WG383241-03
Instrument ID: HYDRA Run Date: 11/30/11 10:04 Prep Method: 7470A
File ID: HY.113011.100454 Analyst: EDL Method: 7470A
Workgroup (AAB#): WG383335 Matrix: Leachate Units: mg/L
Contract #: Cal ID: HYDRA-30-NOV-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Mercury	0.000100	0.000200	0.000100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2239277
30-NOV-2011 11:56

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 **Run Date:** 12/21/2011 **Sample ID:** WG385279-03
Instrument ID: HYDRA **Run Time:** 14:59 **Prep Method:** 7470A
File ID: HY.122111.145957 **Analyst:** EDL **Method:** 7470A
Workgroup (AAB#): WG385407 **Matrix:** Water **Units:** mg/L
QC Key: DOD4 **Lot#:** STD49163 **Cal ID:** HYDRA-21-DEC-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury	0.00400	0.00442	111	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 2268651
Report generated: 12/28/2011 15:24

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 **Run Date:** 12/28/2011 **Sample ID:** WG385279-03
Instrument ID: HYDRA **Run Time:** 08:55 **Prep Method:** 7470A
File ID: HY.122811.085554 **Analyst:** SLP **Method:** 7470A
Workgroup (AAB#): WG385407 **Matrix:** Water **Units:** mg/L
QC Key: DOD4 **Lot#:** STD49163 **Cal ID:** HYDRA-28-DEC-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury	0.00400	0.00439	110	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 2268651
Report generated: 12/28/2011 15:24

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 **Run Date:** 11/30/2011 **Sample ID:** WG383241-04
Instrument ID: HYDRA **Run Time:** 10:06 **Prep Method:** 7470A
File ID: HY.113011.100639 **Analyst:** EDL **Method:** 7470A
Workgroup (AAB#): WG383335 **Matrix:** Leachate **Units:** mg/L
QC Key: DOD4 **Lot#:** STD48845 **Cal ID:** HYDRA-30-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury	0.00400	0.00443	111	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 2239278
Report generated: 11/30/2011 11:56

Microbac Laboratories Inc.
MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11110790 Cal ID:HYDRA- Worknum:WG385407
Instrument ID:HYDRA Contract #: Method:7470A
Parent ID:WG385279-01 File ID:HY.122111.152123 Dil:1 Matrix:WATER
Sample ID:WG385279-04 MS File ID:HY.122111.152403 Dil:1 Units:mg/L
Sample ID:WG385279-05 MSD File ID:HY.122111.152549 Dil:1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury	ND	0.0400	0.0435	109	0.0400	0.0444	111	2.05	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 05/26/2011
PDF File ID: 2268652
Report generated 12/28/2011 15:18

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L11110790 Cal ID: HYDRA- Worknum: WG385407

Instrument ID: HYDRA Contract #: Method: 7470A

Parent ID: WG385279-01 File ID: HY.122811.090246 Dil: 1 Matrix: WATER

Sample ID: WG385279-04 MS File ID: HY.122811.090444 Dil: 1 Units: mg/L

Sample ID: WG385279-05 MSD File ID: HY.122811.090646 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury	ND	0.0400	0.0432	108	0.0400	0.0434	109	0.462	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 05/26/2011

PDF File ID: 2268652

Report generated 12/28/2011 15:18

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11110790 Cal ID:HYDRA- Worknum:WG383335

Instrument ID:HYDRA Contract #: Method:7470A

Parent ID:WG383241-01 File ID:HY.113011.101956 Dil:1 Matrix:WATER

Sample ID:WG383241-05 MS File ID:HY.113011.102203 Dil:1 Units:mg/L

Sample ID:WG383241-06 MSD File ID:HY.113011.102347 Dil:1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury	ND	0.0400	0.0447	112	0.0400	0.0446	112	0.224	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 05/26/2011

PDF File ID: 2239279

Report generated 11/30/2011 11:56

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11110790
Work Group: WG382805
Blank File ID: 00.1111230815-01
Blank Sample ID: WG382805-01
Prep Date: 11/23/11 08:15
Instrument ID: YSI-5000
Analyzed Date: 11/23/11 08:15
Method: SM5210B
Analyst: DLP

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG382805-02	00.1111230815-02	11/23/11 08:15	
LCS2	WG382805-03	00.1111230815-03	11/23/11 08:15	
LCSX	WG382805-04	00.1111230815-04	11/23/11 08:15	
DUP	WG382805-07	00.1111230815-06	11/23/11 08:15	
40 IDW D1 GW112111	L11110790-03	00.1111230815-09	11/23/11 08:15	
40 IDW D2 GW112111	L11110790-04	00.1111230815-10	11/23/11 08:15	

Report Name: BLANK_SUMMARY
PDF File ID: 2238702
Report generated 11/30/2011 09:35

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11110790 Prep Date:11/23/11 08:15 Sample ID:WG382805-01
Instrument ID:YSI-5000 Run Date:11/23/11 08:15 Prep Method:SM5210B
File ID:00.1111230815-01 Analyst:DLP Method:SM5210B
Workgroup (AAB#):WG382805 Matrix:Water Units:mg/L
Contract #: Cal ID:YSI-50-

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Biochemical Oxygen Demand	1.00	3.00	1.00	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2238703
30-NOV-2011 09:35

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 **Analyst:** DLP **Prep Method:** SM5210B
Instrument ID: YSI-5000 **Matrix:** Water **Method:** SM5210B
Workgroup (AAB#): WG382805 **Units:** mg/L
QC Key: DOD4 **Lot #:** STD48143

Sample ID: WG382805-02 LCS **File ID:** 00.1111230815-02 **Run Date:** 11/23/2011 08:15
Sample ID: WG382805-03 LCS2 **File ID:** 00.1111230815-03 **Run Date:** 11/23/2011 08:15

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Biochemical Oxygen Demand	198	236	119	198	229	116	3.01	84.6 - 115.4	20	*

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2238704
Report generated: 11/30/2011 09:35

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383224
Blank File ID:	1V.1111290835-02	Blank Sample ID:	WG383224-01
Prep Date:	11/29/11 08:35	Instrument ID:	UV-120-1V
Analyzed Date:	11/29/11 08:35	Method:	410.4 MOD
Analyst:	DIH		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383224-02	1V.1111290835-03	11/29/11 08:35	
LCS2	WG383224-03	1V.1111290835-04	11/29/11 08:35	
40 IDW D1 GW112111	L11110790-03	1V.1111290835-22	11/29/11 08:35	
DUP	WG383224-05	1V.1111290835-23	11/29/11 08:35	

Report Name: BLANK_SUMMARY
PDF File ID: 2239600
Report generated 11/30/2011 13:20

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11110790	Work Group:	WG383225
Blank File ID:	1V.1111290836-02	Blank Sample ID:	WG383225-01
Prep Date:	11/29/11 08:36	Instrument ID:	UV-120-1V
Analyzed Date:	11/29/11 08:36	Method:	410.4 MOD
Analyst:	DIH		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG383225-02	1V.1111290836-03	11/29/11 08:36	
LCS2	WG383225-03	1V.1111290836-04	11/29/11 08:36	
40 IDW D2 GW112111	L11110790-04	1V.1111290836-10	11/29/11 08:36	
DUP	WG383225-05	1V.1111290836-13	11/29/11 08:36	

Report Name: BLANK_SUMMARY
PDF File ID: 2239624
Report generated 11/30/2011 13:25

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/29/11 08:35 Sample ID: WG383224-01
Instrument ID: UV-120-1V Run Date: 11/29/11 08:35 Prep Method: HACH
File ID: 1V.1111290835-02 Analyst: DIH Method: 410.4 MOD
Workgroup (AAB#): WG383224 Matrix: Water Units: mg/L
Contract #: Cal ID: UV-120-22-NOV-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Chemical Oxygen Demand	10.0	150	10.0	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2239601
30-NOV-2011 13:20

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11110790 Prep Date: 11/29/11 08:36 Sample ID: WG383225-01
Instrument ID: UV-120-1V Run Date: 11/29/11 08:36 Prep Method: METHOD
File ID: 1V.1111290836-02 Analyst: DIH Method: 410.4 MOD
Workgroup (AAB#): WG383225 Matrix: Water Units: mg/L
Contract #: Cal ID: UV-120-22-NOV-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Chemical Oxygen Demand	10.0	20.0	10.0	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 2239625
30-NOV-2011 13:25

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 **Analyst:** DIH **Prep Method:** HACH
Instrument ID: UV-120-1V **Matrix:** Water **Method:** 410.4 MOD
Workgroup (AAB#): WG383224 **Units:** mg/L
QC Key: DOD4 **Lot #:** STD48498

Sample ID: WG383224-02 LCS **File ID:** 1V.1111290835-03 **Run Date:** 11/29/2011 08:35
Sample ID: WG383224-03 LCS2 **File ID:** 1V.1111290835-04 **Run Date:** 11/29/2011 08:35

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Chemical Oxygen Demand	1000	1000	100	1000	1030	103	2.43	90 - 110	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2239602
Report generated: 11/30/2011 13:20

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11110790 **Analyst:** DIH **Prep Method:** METHOD
Instrument ID: UV-120-1V **Matrix:** Water **Method:** 410.4 MOD
Workgroup (AAB#): WG383225 **Units:** mg/L
QC Key: DOD4 **Lot #:** STD48498

Sample ID: WG383225-02 LCS **File ID:** 1V.1111290836-03 **Run Date:** 11/29/2011 08:36
Sample ID: WG383225-03 LCS2 **File ID:** 1V.1111290836-04 **Run Date:** 11/29/2011 08:36

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Chemical Oxygen Demand	100	100	100	100	101	101	0.874	90 - 110	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2239626
Report generated: 11/30/2011 13:25

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
January 9, 2012

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CS – CODY M. STRAHLER	CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DHG – DEBORAH H. GRIFFITHS
DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE
DLR – DIANNA L. RAUCH	DSM – DAVID S. MOSSOR	ECL – ERIC C. LAWSON
EDL – ERIN D. LONG	ERP – ERIN R. PORTER	FJB – FRANCES J. BOLDEN
HAV – HEMA VILASAGAR	HJR – HOLLY J. REED	JAL – JOHN A. LENT
JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON	JKS – JANE K. SCHAAD
JLL – JOHN L. LENT	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT	RAH – ROY A. HALSTEAD
REK – BOB E. KYER	RLB – BOB BUCHANAN	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SJP – SUZANNE J. PAUGH	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WJB – WILL J. BEASLEY
WTD – WADE T. DELONG		

Microbac Laboratories Inc.
List of Valid Qualifiers
January 09, 2012

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the LOQ.
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

L11110790 / Revision: 0 / 88 total pages

COC No. A 2172

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4308
Fax: 740-376-2536

Company Name: KEMRON

Project Contact: MARY LOU ROCKHOLD | Contact Phone #: 740-373-4308

Turn Around Requirements: 14-DAY | Location: RADFORD, VA

Project ID: M20669 SWMU 40 IDW CRAAP

Sampler (print): JONAH ANDERSON | Signature:

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	TCLP metals + Hg	VOC	SVOC	TOTAL Explosives 8330	PCB	pH	COD	BOD	TCLP metals	TOTAL Zn, Cu, Ni						TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
40 IDW SC 112111	X		11-21-11	1805	SOLID	3		✓	✓	✓	✓	✓	✓											PER QAPP
40 IDW D1GW 112111	X		11-21-11	1755	~~SOLID~~ LIQUID	3								1	1	-	1							
40 IDW D2GW 112111	X		11-21-11	1800	SOLID	2								1	1									

Microbac OVD
221000020460
Received: 11/22/2011 14:29
By: BRENDA GREENWALT

Relinquished by: (Signature)	Date	Time	Received (Signatur	Date	Time	Received by: (Signature)
	11-22-11	1430	Brenda Greenwalt			

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
			Cara Strickler	11/22/11	1430	

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

Generated: 01/09/2012 09:11

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11110790
Account: 2820
Project: 2820.216
Samples: 4
Due Date: 23-DEC-2011

Samplenum	Container ID	Products
L11110790-01	914081	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	23-NOV-2011 07:52	JKT		
2	ANALYZ	V1	ORG4	23-NOV-2011 10:00	FJB	JKS	
3	STORE	ORG4	A2	06-DEC-2011 07:48	JKT	MRT	

Samplenum	Container ID	Products
L11110790-01	914082	8330

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	23-NOV-2011 07:52	JKT		
2	PREP	W1	EXT	23-NOV-2011 09:15	CSH	JKT	
3	STORE	EXT	A2	30-NOV-2011 13:47	RLK	CEB	
4	ANALYZ*	EXT	SEMI	06-DEC-2011 08:54	ECL	CSH	

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11110790-01	914083	8082 827-SPE COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	EXT	23-NOV-2011 07:52	JKT		
2	STORE	EXT	W1	28-NOV-2011 13:27	JKT	CEB	
3	ANALYZ	W1	WET	29-NOV-2011 12:45	HJR	JKT	
4	STORE	WET	A2	30-NOV-2011 08:40	JKT	HJR	
5	PREP	A2	EXT	06-DEC-2011 12:57	CEB	JKT	
6	STORE	EXT	A2	07-DEC-2011 06:39	AZH	CEB	
7	ANALYZ*	EXT	SEMI	07-DEC-2011 07:37	CAA	CEB	

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11110790-02	914084	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	23-NOV-2011 07:52	JKT		

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11110790
Account: 2820
Project: 2820.216
Samples: 4
Due Date: 23-DEC-2011

Samplenum	Container ID	Products
L11110790-03	914085	BOD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	23-NOV-2011 07:52	JKT		
2	STORE	WET	A2	23-NOV-2011 16:10	RLK	DLP	

Samplenum	Container ID	Products
L11110790-03	914086	COD-HIGH COD-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	23-NOV-2011 07:52	JKT		
2	ANALYZ	W1	WET	28-NOV-2011 10:26	DIH	JKT	
3	STORE	WET	A2	29-NOV-2011 12:53	JKT	DIH	

Samplenum	Container ID	Products
L11110790-03	914087	CU-MS NI-MS ZN-MS AG-MS AS-MS BA-MS CD-MS CR-M

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	23-NOV-2011 07:52	JKT		
2	PREP	W1	DIG	23-NOV-2011 11:40	BRG	RLK	
3	STORE	DIG	A2	28-NOV-2011 13:04	JKT	BRG	
4	ANALYZ*	DIG	METALS	29-NOV-2011 09:48	JYH	BRG	
5	PREP	W1	DIG	20-DEC-2011 10:22	REK	JKT	
6	STORE	DIG	A2	20-DEC-2011 14:16	JKT	ERP	

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11110790-04	914088	BOD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	23-NOV-2011 07:52	JKT		
2	STORE	WET	A2	23-NOV-2011 16:10	RLK	DLP	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11110790
Account: 2820
Project: 2820.216
Samples: 4
Due Date: 23-DEC-2011

Samplenum	Container ID	Products
L11110790-04	914089	COD-HIGH COD-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	23-NOV-2011 07:52	JKT		
2	ANALYZ	W1	WET	28-NOV-2011 10:26	DIH	JKT	
3	STORE	WET	A2	29-NOV-2011 12:53	JKT	DIH	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

APPENDIX D

Waste Disposal Documentation:

- **Waste Profile**
- **Non-Hazardous Waste Manifests**

First Piedmont Corporation P.O. Drawer 1069 Chatham, VA 24531

Waste Characterization Form

Generator Identification: FPC Approval #: _____

Name: Alliant Techsytems (Radford Army Ammunition Plant)

Address: PO BOX 1 State Rt 114

Plant location: Radford VA 24143 Phone #: 540-639-7668

Broker or Consultant name and address: UXB-KEMRON 156 Starlite Drive, Marietta, OH 45750

Description of waste product: Rock and Soil cuttings from Monitoring Well Installation

Indicate the process that generated this waste (be specific): Environmental Monitoring Well Installation (SWMU 40)

Waste Characterization:

Estimated volume/tonnage: 2.5 tons Frequency (check one): ☐monthly ☐ yearly ☒ one time

Packing: ☐Bulk ☒Drums *if drums, give size and type:* 55 gallon Steel Open Top Drums

Physical State: ☒solid ☐liquid ☐semi solid Is there layering? No

Flashpoint (degrees F) NA, cyanides NA ppm, sulfides NA ppm

Metallics: Arsenic <0.5 TCLP$_{ppm}$ Chromium <0.1 TCLP$_{ppm}$ Selenium 0.408 TCLP$_{ppm}$
Barium 2.19 TCLP$_{ppm}$ Silver 0.0984 TCLP$_{ppm}$ Cadmium <0.05 TCLP$_{ppm}$
Mercury <0.001 TCLP$_{ppm}$ Lead <0.5 TCLP$_{ppm}$

Other Metallics/Toxics NA _____ppm, _____ _____ppm, _____ _____ppm

Is this waste corrosive? NA *PH of waste:* 9.73 (solid/soil pH)

Is this a listed hazardous waste per USEPA Regulations? NO

Total Constituents (must equal 100%)	_____ _____%	_____ _____%	
Crushed Rock 98%	Soil 2%	_____ _____%	_____ _____%
_____ _____%	_____ _____%	_____ _____%	_____ _____%

Additional information: Ten 55-gallon steel drums of cuttings from monitoring well instalation. The predominant rock type is Limestone. Trace amounts of topsoil and clay from the subsurface are mixed into the drums. The waste is free of liquids. - 6 pages of analytical attached

Hauler's Information *(if other than First Piedmont Corporation vehicles)*:

Name: _____ Address: _____

Telephone Number: _____

Generator's Certification:

This is a complete and accurate description of this waste material and I hereby certify this waste is not hazardous as defined by U.S. Department of Transportation (DOT), U.S. Environmental Protection Agency (EPA), state or local regulations.

Generator's Signature: Jeremy Flint Printed Name: Jeremy Flint

Title: ENV Eng Date: 1/10/12

Report Number: L11110790
Report Date : December 14, 2011

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG383270
Collect Date: 11/21/2011 18:05
Sample Tag: 01

PrePrep Method: NONE
Prep Method: 3550B
Analytical Method: 8082
Analyst: ECL
Dilution: 1
Units: ug/kg

Instrument: HP9
Prep Date: 11/28/2011 11:21
Cal Date: 08/26/2011 17:38
Run Date: 11/30/2011 18:45
File ID: 9GF66208.F

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aroclor-1016	12674-11-2		U	16.2	8.11
Aroclor-1221	11104-28-2		U	16.2	8.11
Aroclor-1232	11141-16-5		U	16.2	8.11
Aroclor-1242	53469-21-9		U	16.2	8.11
Aroclor-1248	12672-29-6		U	16.2	8.11
Aroclor-1254	11097-69-1		U	16.2	8.11
Aroclor-1260	11096-82-5		U	16.2	8.11

Surrogate	% Recovery	Lower	Upper	Qual
2,4,5,6-Tetrachloro-m-Xylene	57.9	29	133	
Decachlorobiphenyl	81.0	60	125	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG383493
Collect Date: 11/21/2011 18:05
Sample Tag: 01

PrePrep Method: NONE
Prep Method: METHOD
Analytical Method: 8330B
Analyst: ECL
Dilution: 1
Units: mg/kg

Instrument: HPLC5
Prep Date: 11/30/2011 08:00
Cal Date: 02/10/2011 16:32
Run Date: 12/02/2011 12:24
File ID: 5L005916.F

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,3,5-Trinitrobenzene	99-35-4		U	0.249	0.0997
1,3-Dinitrobenzene	99-65-0		U	0.249	0.0997
2,4,6-Trinitrotoluene	118-96-7		U	0.249	0.0997
2,4-Dinitrotoluene	121-14-2		U	0.249	0.0997
2,6-Dinitrotoluene	606-20-2		U	0.249	0.0997
2-Amino-4,6-dinitrotoluene	35572-78-2		U	0.249	0.0997
2-Nitrotoluene	88-72-2		U	0.249	0.0997
3-Nitrotoluene	99-08-1		U	0.249	0.0997
4-Nitrotoluene	99-99-0		U	0.249	0.0997
4-Amino-2,6-dinitrotoluene	19406-51-0		U	0.249	0.0997
HMX	2691-41-0		U	0.249	0.0997
Nitrobenzene	98-95-3		U	0.249	0.0997
RDX	121-82-4		U	0.249	0.0997
Tetryl	479-45-8		U	0.249	0.0997
Nitroglycerin	55-63-0		U	0.249	0.0997

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dinitrobenzene	91.5	50	150	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG383493
Collect Date: 11/21/2011 18:05
Sample Tag: 02

PrePrep Method: NONE
Prep Method: METHOD
Analytical Method: 8330B
Analyst: ECL
Dilution: 1
Units: mg/kg

Instrument: HPLC4
Prep Date: 11/30/2011 08:00
Cal Date: 11/01/2011 19:22
Run Date: 12/05/2011 15:24
File ID: 4L022955.F

Analyte	CAS. Number	Result	Qual	LOQ	LOD
PETN	78-11-5		U	0.249	0.0997

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: L11110790
Report Date : December 14, 2011

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG383196
Collect Date: 11/21/2011 18:05
Sample Tag: 01

PrePrep Method: NONE
Prep Method: 3545
Analytical Method: 8270C
Analyst: CAA
Dilution: 1
Units: ug/kg

Instrument: HPMS12
Prep Date: 11/28/2011 08:46
Cal Date: 11/30/2011 18:07
Run Date: 12/02/2011 12:40
File ID: 12M37732

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,2,4-Trichlorobenzene	120-82-1		U	157	78.7
1,2-Dichlorobenzene	95-50-1		U	157	78.7
1,3-Dichlorobenzene	541-73-1		U	157	78.7
1,4-Dichlorobenzene	106-46-7		U	157	78.7
2,4,5-Trichlorophenol	95-95-4		U	157	78.7
2,4,6-Trichlorophenol	88-06-2		U	157	78.7
2,4-Dichlorophenol	120-83-2		U	157	78.7
2,4-Dimethylphenol	105-67-9		U	157	78.7
2,4-Dinitrophenol	51-28-5		U	787	393
2,4-Dinitrotoluene	121-14-2		U	157	78.7
2,6-Dinitrotoluene	606-20-2		U	157	78.7
2-Chloronaphthalene	91-58-7		U	157	78.7
2-Chlorophenol	95-57-8		U	157	78.7
2-Methylnaphthalene	91-57-6		U	157	78.7
2-Methylphenol	95-48-7		U	157	78.7
2-Nitroaniline	88-74-4		U	787	393
2-Nitrophenol	88-75-5		U	157	78.7
3,3'-Dichlorobenzidine	91-94-1		U	315	157
3-,4-Methylphenol	106-44-5		U	157	78.7
3-Nitroaniline	99-09-2		U	787	393
4,6-Dinitro-2-methylphenol	534-52-1		U	787	393
4-Bromophenyl-phenylether	101-55-3		U	157	78.7
4-Chloro-3-methylphenol	59-50-7		U	157	78.7
4-Chloroaniline	106-47-8		U	157	78.7
4-Chlorophenyl-phenyl ether	7005-72-3		U	157	78.7
4-Nitroaniline	100-01-6		U	787	393
4-Nitrophenol	100-02-7		U	787	393
Acenaphthene	83-32-9		U	157	78.7
Acenaphthylene	208-96-8		U	157	78.7
Anthracene	120-12-7		U	157	78.7
Benzo(a)anthracene	56-55-3		U	157	78.7
Benzo(a)pyrene	50-32-8		U	157	78.7
Benzo(b)fluoranthene	205-99-2		U	157	78.7
Benzo(g,h,i)Perylene	191-24-2		U	157	78.7
Benzo(k)fluoranthene	207-08-9		U	157	78.7
Benzoic acid	65-85-0		U	4770	315
Benzyl alcohol	100-51-6		U	157	78.7
Bis(2-Chloroethoxy)Methane	111-91-1		U	157	78.7
Bis(2-Chloroethyl)ether	111-44-4		U	157	78.7
bis(2-Chloroisopropyl)ether	108-60-1		U	157	78.7
bis(2-Ethylhexyl)phthalate	117-81-7		U	157	78.7
Butylbenzylphthalate	85-68-7		U	157	78.7
Chrysene	218-01-9		U	157	78.7
Di-N-Butylphthalate	84-74-2		U	157	78.7
Di-n-octylphthalate	117-84-0		U	157	78.7
Dibenzo(a,h)Anthracene	53-70-3		U	157	78.7
Dibenzofuran	132-64-9		U	157	78.7
Diethylphthalate	84-66-2		U	157	78.7
Dimethylphthalate	131-11-3		U	157	78.7
Fluoranthene	206-44-0		U	157	78.7
Fluorene	86-73-7		U	157	78.7
Hexachlorobenzene	118-74-1		U	157	78.7
Hexachlorobutadiene	87-68-3		U	157	78.7
Hexachlorocyclopentadiene	77-47-4		U	157	78.7
Hexachloroethane	67-72-1		U	157	78.7
Indeno(1,2,3-cd)pyrene	193-39-5		U	157	78.7
Isophorone	78-59-1		U	157	78.7
N-Nitrosodiphenylamine	86-30-6		U	157	78.7
N-Nitrosodipropylamine	621-64-7		U	157	78.7

Report Number: L11110790
Report Date : December 14, 2011

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG383196
Collect Date: 11/21/2011 18:05
Sample Tag: 01

PrePrep Method: NONE
Prep Method: 3545
Analytical Method: 8270C
Analyst: CAA
Dilution: 1
Units: ug/kg

Instrument: HPMS12
Prep Date: 11/28/2011 08:46
Cal Date: 11/30/2011 18:07
Run Date: 12/02/2011 12:40
File ID: 12M37732

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Naphthalene	91-20-3		U	157	78.7
Nitrobenzene	98-95-3		U	157	78.7
Pentachlorophenol	87-86-5		U	787	393
Phenanthrene	85-01-8		U	157	78.7
Phenol	108-95-2		U	157	78.7
Pyrene	129-00-0		U	157	78.7

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	44.5	35	125	
2-Fluorobiphenyl	53.2	45	105	
2-Fluorophenol	64.7	35	105	
Nitrobenzene-d5	56.9	35	100	
p-Terphenyl-d14	81.5	30	125	
Phenol-d5	58.6	40	100	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG383965
Collect Date: 11/21/2011 18:05
Sample Tag: RE01

PrePrep Method: NONE
Prep Method: 3550B
Analytical Method: 8270C
Analyst: CAA
Dilution: 1
Units: ug/kg

Instrument: HPMS4
Prep Date: 12/06/2011 13:11
Cal Date: 12/02/2011 16:01
Run Date: 12/07/2011 16:07
File ID: 4M59025

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,2,4-Trichlorobenzene	120-82-1		U	114	57.1
1,2-Dichlorobenzene	95-50-1		U	114	57.1
1,3-Dichlorobenzene	541-73-1		U	114	57.1
1,4-Dichlorobenzene	106-46-7		U	114	57.1
2,4,5-Trichlorophenol	95-95-4		U	114	57.1
2,4,6-Trichlorophenol	88-06-2		U	114	57.1
2,4-Dichlorophenol	120-83-2		U	114	57.1
2,4-Dimethylphenol	105-67-9		U	114	57.1
2,4-Dinitrophenol	51-28-5		U	571	285
2,4-Dinitrotoluene	121-14-2		U	114	57.1
2,6-Dinitrotoluene	606-20-2		U	114	57.1
2-Chloronaphthalene	91-58-7		U	114	57.1
2-Chlorophenol	95-57-8		U	114	57.1
2-Methylnaphthalene	91-57-6		U	114	57.1
2-Methylphenol	95-48-7		U	114	57.1
2-Nitroaniline	88-74-4		U	571	285
2-Nitrophenol	88-75-5		U	114	57.1
3,3'-Dichlorobenzidine	91-94-1		U	228	114
3-,4-Methylphenol	106-44-5		U	114	57.1
3-Nitroaniline	99-09-2		U	571	285
4,6-Dinitro-2-methylphenol	534-52-1		U	571	285
4-Bromophenyl-phenylether	101-55-3		U	114	57.1
4-Chloro-3-methylphenol	59-50-7		U	114	57.1
4-Chloroaniline	106-47-8		U	114	57.1
4-Chlorophenyl-phenyl ether	7005-72-3		U	114	57.1
4-Nitroaniline	100-01-6		U	571	285
4-Nitrophenol	100-02-7		U	571	285
Acenaphthene	83-32-9		U	114	57.1
Acenaphthylene	208-96-8		U	114	57.1
Anthracene	120-12-7		U	114	57.1
Benzo(a)anthracene	56-55-3		U	114	57.1
Benzo(a)pyrene	50-32-8		U	114	57.1
Benzo(b)fluoranthene	205-99-2		U	114	57.1

Report Number: L11110790
Report Date : December 14, 2011

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG383965
Collect Date: 11/21/2011 18:05
Sample Tag: RE01

PrePrep Method: NONE
Prep Method: 3550B
Analytical Method: 8270C
Analyst: CAA
Dilution: 1
Units: ug/kg

Instrument: HPMS4
Prep Date: 12/06/2011 13:11
Cal Date: 12/02/2011 16:01
Run Date: 12/07/2011 16:07
File ID: 4M59025

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Benzo(g,h,i)Perylene	191-24-2		U	114	57.1
Benzo(k)fluoranthene	207-08-9		U	114	57.1
Benzoic acid	65-85-0		U	3460	228
Benzyl alcohol	100-51-6		U	114	57.1
Bis(2-Chloroethoxy)Methane	111-91-1		U	114	57.1
Bis(2-Chloroethyl)ether	111-44-4		U	114	57.1
bis(2-Chloroisopropyl)ether	108-60-1		U	114	57.1
bis(2-Ethylhexyl)phthalate	117-81-7		U	114	57.1
Butylbenzylphthalate	85-68-7		U	114	57.1
Chrysene	218-01-9		U	114	57.1
Di-N-Butylphthalate	84-74-2		U	114	57.1
Di-n-octylphthalate	117-84-0		U	114	57.1
Dibenzo(a,h)Anthracene	53-70-3		U	114	57.1
Dibenzofuran	132-64-9		U	114	57.1
Diethylphthalate	84-66-2		U	114	57.1
Dimethylphthalate	131-11-3		U	114	57.1
Fluoranthene	206-44-0		U	114	57.1
Fluorene	86-73-7		U	114	57.1
Hexachlorobenzene	118-74-1		U	114	57.1
Hexachlorobutadiene	87-68-3		U	114	57.1
Hexachlorocyclopentadiene	77-47-4		U	114	57.1
Hexachloroethane	67-72-1		U	114	57.1
Indeno(1,2,3-cd)pyrene	193-39-5		U	114	57.1
Isophorone	78-59-1		U	114	57.1
N-Nitrosodiphenylamine	86-30-6		U	114	57.1
N-Nitrosodipropylamine	621-64-7		U	114	57.1
Naphthalene	91-20-3		U	114	57.1
Nitrobenzene	98-95-3		U	114	57.1
Pentachlorophenol	87-86-5		U	571	285
Phenanthrene	85-01-8		U	114	57.1
Phenol	108-95-2		U	114	57.1
Pyrene	129-00-0		U	114	57.1

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	87.7	35	125	
2-Fluorobiphenyl	72.9	45	105	
2-Fluorophenol	74.7	35	105	
Nitrobenzene-d5	69.4	35	100	
p-Terphenyl-d14	111	30	125	
Phenol-d5	74.5	40	100	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG382999
Collect Date: 11/21/2011 18:05
Sample Tag: 01

PrePrep Method: NONE
Prep Method: 5030B/5030C/5035
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/kg

Instrument: HPMS9
Prep Date: 11/23/2011 16:15
Cal Date: 11/10/2011 15:36
Run Date: 11/24/2011 01:57
File ID: 9M90003

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6		U	4.72	0.472
1,1,1-Trichloroethane	71-55-6		U	4.72	0.472
1,1,2,2-Tetrachloroethane	79-34-5		U	4.72	0.472
1,1,2-Trichloroethane	79-00-5		U	4.72	0.472
1,1-Dichloroethane	75-34-3		U	4.72	0.943
1,1-Dichloroethene	75-35-4		U	4.72	0.472
1,1-Dichloropropene	563-58-6		U	4.72	0.472

Report Number: L11110790
Report Date : December 14, 2011

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG382999
Collect Date: 11/21/2011 18:05
Sample Tag: 01

PrePrep Method: NONE
Prep Method: 5030B/5030C/5035
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/kg

Instrument: HPMS9
Prep Date: 11/23/2011 16:15
Cal Date: 11/10/2011 15:36
Run Date: 11/24/2011 01:57
File ID: 9M90003

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,2,3-Trichlorobenzene	87-61-6		U	4.72	0.472
1,2,3-Trichloropropane	96-18-4		U	4.72	0.943
1,2,4-Trichlorobenzene	120-82-1		U	4.72	0.472
1,2,4-Trimethylbenzene	95-63-6		U	4.72	0.472
1,2-Dibromo-3-chloropropane	96-12-8		U	4.72	1.89
1,2-Dibromoethane	106-93-4		U	4.72	0.472
1,2-Dichlorobenzene	95-50-1		U	4.72	0.472
1,2-Dichloroethane	107-06-2		U	4.72	0.472
1,2-Dichloropropane	78-87-5		U	4.72	0.472
1,3,5-Trimethylbenzene	108-67-8		U	4.72	0.472
1,3-Dichlorobenzene	541-73-1		U	4.72	0.472
1,3-Dichloropropane	142-28-9		U	4.72	0.472
1,4-Dichlorobenzene	106-46-7		U	4.72	0.472
2,2-Dichloropropane	594-20-7		U	4.72	0.472
2-Butanone	78-93-3		U	4.72	2.36
2-Chloroethyl vinyl ether	110-75-8		U	4.72	1.89
2-Chlorotoluene	95-49-8		U	4.72	0.472
2-Hexanone	591-78-6		U	4.72	2.36
4-Chlorotoluene	106-43-4		U	4.72	0.472
4-Methyl-2-pentanone	108-10-1		U	4.72	2.36
Acetone	67-64-1		U	9.43	4.72
Benzene	71-43-2		U	4.72	0.472
Bromobenzene	108-86-1		U	4.72	0.472
Bromochloromethane	74-97-5		U	4.72	0.943
Bromodichloromethane	75-27-4		U	4.72	0.472
Bromoform	75-25-2		U	4.72	0.472
Bromomethane	74-83-9		U	4.72	0.943
Carbon disulfide	75-15-0		U	4.72	0.472
Carbon tetrachloride	56-23-5		U	4.72	0.472
Chlorobenzene	108-90-7		U	4.72	0.472
Chlorodibromomethane	124-48-1		U	4.72	0.472
Chloroethane	75-00-3		U	4.72	0.943
Chloroform	67-66-3		U	4.72	0.472
Chloromethane	74-87-3		U	4.72	1.89
cis-1,2-Dichloroethene	156-59-2		U	4.72	0.472
cis-1,3-Dichloropropene	10061-01-5		U	4.72	0.472
Dibromomethane	74-95-3		U	4.72	0.472
Dichlorodifluoromethane	75-71-8		U	4.72	0.943
Ethylbenzene	100-41-4		U	4.72	0.472
Hexachlorobutadiene	87-68-3		U	4.72	0.472
Isopropylbenzene	98-82-8		U	4.72	0.472
m-,p-Xylene	179601-23-1		U	4.72	0.472
Methylene chloride	75-09-2		U	4.72	0.943
n-Butylbenzene	104-51-8		U	4.72	0.472
n-Propylbenzene	103-65-1		U	4.72	0.472
Naphthalene	91-20-3		U	4.72	0.472
o-Xylene	95-47-6		U	4.72	0.472
p-Isopropyltoluene	99-87-6		U	4.72	0.472
sec-Butylbenzene	135-98-8		U	4.72	0.472
Styrene	100-42-5		U	4.72	0.472
tert-Butylbenzene	98-06-6		U	4.72	0.472
Tetrachloroethene	127-18-4		U	4.72	0.472
Toluene	108-88-3		U	4.72	0.472
trans-1,2-Dichloroethene	156-60-5		U	4.72	0.472
trans-1,3-Dichloropropene	10061-02-6		U	4.72	0.472
Trichloroethene	79-01-6		U	4.72	0.472
Trichlorofluoromethane	75-69-4		U	4.72	0.943
Vinyl acetate	108-05-4		U	4.72	2.36
Vinyl chloride	75-01-4		U	4.72	0.943

Report Number: L11110790
Report Date : December 14, 2011

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG382999
Collect Date: 11/21/2011 18:05
Sample Tag: 01

PrePrep Method: NONE
Prep Method: 5030B/5030C/5035
Analytical Method: 8260B
Analyst: TMB
Dilution: 1
Units: ug/kg

Instrument: HPMS9
Prep Date: 11/23/2011 16:15
Cal Date: 11/10/2011 15:36
Run Date: 11/24/2011 01:57
File ID: 9M90003

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	95.9	80	120	
4-Bromofluorobenzene	93.2	85	120	
Dibromofluoromethane	97.3	80	120	
Toluene-d8	94.8	85	115	

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: L11110790-01
Client ID: 40 IDW SL 112111
Matrix: Solidwaste
Workgroup Number: WG383273
Collect Date: 11/21/2011 18:05

PrePrep Method: NONE
Prep Method: 9045D
Analytical Method: 9045D
Analyst: EJR
Dilution: 1
Units: UNITS

Instrument: ORION-4STAR
Prep Date: 11/29/2011 13:40
Cal Date:
Run Date: 11/29/2011 13:40
File ID: OS11113013500201

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	9.73			

Sample Number: L11110790-02
Client ID: 40 IDW SL 112111
Matrix: Leachate
Workgroup Number: WG383335
Collect Date: 11/21/2011 18:05
Sample Tag: 01

PrePrep Method: 1311
Prep Method: 7470A
Analytical Method: 7470A
Analyst: EDL
Dilution: 1
Units: mg/L

Instrument: HYDRA
Prep Date: 11/29/2011 11:34
Cal Date: 11/30/2011 09:48
Run Date: 11/30/2011 10:41
File ID: HY.113011.104111

Analyte	CAS.Number	Result	Qual	LOQ	LOD	EPA HW#	Reg. Limit
Mercury	7439-97-6		U	.002	.001	D009	.2

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: L11110790-02
Client ID: 40 IDW SL 112111
Matrix: Leachate
Workgroup Number: WG383294
Collect Date: 11/21/2011 18:05
Sample Tag: 01

PrePrep Method: 1311
Prep Method: 3015
Analytical Method: 6010B
Analyst: SLP
Dilution: 1
Units: mg/L

Instrument: PE-ICP2
Prep Date: 11/29/2011 13:09
Cal Date: 11/29/2011 09:15
Run Date: 11/29/2011 19:42
File ID: P2.112911.194219

Analyte	CAS.Number	Result	Qual	LOQ	LOD	EPA HW#	Reg. Limit
Arsenic, TCLP	7440-38-2		U	1	.5	D004	5
Barium, TCLP	7440-39-3	2.19		.1	.05	D005	100
Cadmium, TCLP	7440-43-9		U	.1	.05	D006	1
Chromium, TCLP	7440-47-3		U	.2	.1	D007	5
Lead, TCLP	7439-92-1		U	1	.5	D008	5
Selenium, TCLP	7782-49-2	0.408	J	.8	.4	D010	1
Silver, TCLP	7440-22-4	0.0984	JB	.1	.05	D011	5

JB JB
U Analyte was not detected. The concentration is below the reported LOD.
J Estimated value ; the analyte concentration was less than the LOQ.

From: Flint, Jeremy [mailto:Jeremy.Flint@ATK.COM]
Sent: Thursday, November 17, 2011 3:49 PM
To: Jonah Anderson
Cc: McKenna, Jim; Mary Lou Rochotte
Subject: RFAAP SWMU 40 - IDW Analticaly parameters

Water samples;
BOD, COD, TCLP metals, total Zn, total Cu, total Ni, pH

Solid Samples:
TCLP (metals, voc, svoc, OK to skip Pest and Herb)
Total explosives 8330
PCB
pH
SKIP (iginitability, cyanide, sulfide)

Here is a list of Non-hazardous waste facilities we have used recently;

Montgomery Regional Solid Waste Authority (MRSWA) – Household Trash, bioplant sludge, drinking water plant sludge, etc., construction demolition debris
New River Resource Authority (Horseshoe and NRU only): Ballistics Range sand, (MRSWA transfers to here)
First Piedmont : Petroleum contaminated debris/clan-up, Asbestos dumpster (friable and non friable)
Hamms landfill: contractor generated asbestos
Waste Management Amelia: IRP though SHAW
EarthTec: Outfall 007 calcium sulfate sludge
New River Recycling: cardboard recycling, inert concrete

MRSWA does not accept full containers but other contractors have transported containers and emptied on the tipping floor. MRSWA uses the same profile as NRRA. I attached the MS Word file used at SWMU 57.

Thank You
Jeremy Flint
Lead Compliance Engineer
Environmental Affairs Department
Alliant Techsystems Inc.
P.O. Box 1
Radford, VA 24143
Phone: 540 - 639 - 7668
Fax: 540 - 639 - 8109
"Together Everyone Accomplishes More." (TEAM)

From: Jonah Anderson [mailto:janderson@kemron.com]
Sent: Tuesday, November 15, 2011 6:28 PM
To: Mary Lou Rochotte
Cc: McKenna, Jim; Flint, Jeremy; Mike Brantley
Subject: RFAAP SWMU 40 Daily Update

11-15-11

- Completed repair of additional work at SWMU 40 under direction of Jim McKenna. Inspected site to verify grout/cement seal for monitoring well outer casing was setting properly. Jonah Anderson and Mike Brantley onsite for 2 hours.
- Met with Jim McKenna at SWMU 57 to verify work was final and satisfactory. Jim McKenna stated the site was satisfactory. Jonah Anderson and Mike Brantley onsite for 0.25 hours.

Jonah L. Anderson
Environmental Scientist
KEMRON Environmental Services, Inc.
156 Starlite Drive
Marietta, OH 45750
Cell: 740-629-8456
Direct: 740-373-1077
Office: 740-373-4308
Fax: 740-376-2536
Email: janderson@kemron.com

Visit our website at www.kemron.com-

Before printing, think about ENVIRONMENTAL responsibility

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Daily Safety Meeting

Project Name: Kemron/UXB SWMU-40 well **Date:** 2/2/12

Location: Radford Army Ammunition Plant **Presented by:** Jay Cole - UXB Int'l

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☑ safety is everyone=s responsibility
- ☑ site health and safety plan reviewed
- ☑ safety glasses, hard hat, safety boots
- ☑ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☑ hazard analysis for all tasks or new technology
- ☑ chemical hazards
- ☑ first aid, safety, and PPE location
- ☑ sharp object, rebar, and scrap metal hazards
- ☑ latex gloves inner/nitrile gloves outer
- ☑ open pits, excavations, and trenching hazards
- ☑ excavation/trenching inspections/documentation
- ☑ full face respirators with proper cartridges
- ☑ upgrade to Level C at:
- ☑ work stoppage at:
- ☑ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☑ strains and sprains
- ☑ anticipated visitors
- ☑ electrical ground fault
- ☑ public safety and fences
- ☑ excavator swing and loading
- ☑ orderly site and housekeeping
- ☑ smoking in designated areas
- ☑ leather gloves for protection
- ☑ effects of the night before? Rain or snow?
- ☑ vibration related injuries
- ☐ noise hazards
- ☑ confined space entry
- ☑ hot work permits
- ☐ overhead utility locations cleared?
- ☑ all underground utilities cleared?
- ☑ equipment and machinery familiarization
- ☑ fire extinguisher locations
- ☑ eye wash station locations
- ☑ directions to hospital
- ☑ heat and cold stress
- ☐ decontamination steps
- ☑ review emergency protocol
- ☐ parking and laydown area
- ☑ vehicle backing up hazards
- ☑ accidents can be costly
- ☑ no horse play
- ☑ dust and vapor control
- ☑ refueling procedures
- ☑ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Raymon Eanes		First Procurement

Instructions:

Conduct a daily safety meeting prior to beginning each day=s site activities.
Complete form, obtain signatures, and file with the Daily Summary.
Follow-up on any noted items and document resolution of any action items.

Location Radford VA Date Feb 7, 2012

Project / Client SWMU-40 RFAAP

went to RFAAP to dump 3 barrels of water @ the BioPlant.
Contacted Matt, he stated to hold off for about 30-40 minutes that he was tied up but would find out where lift tk was at.
30 minutes later he called and said Forklift and Equip was there already with the barrels and he was dumping them now.
I did not have to go in properly.

JE

Location Radford VA Date Feb 8, 2012

Project / Client SMV 40 RFAAP

Arrived @ 10:10 am ~~AM~~ contact Piedmont about driver arrival.

went on into Arsenal and located Barrels. Applied Nomex decals to each. There were 10 full & 1 partial Barrels Also 1 empty which we crossed out the label and marked empty.

Piedmont Arrived and we loaded All 11 Barrels with Forklift and proceeded to scales where we weighed material and had Manifest signed by ATK Personel.

Job completed approx 1120 hr.

Location Date

Project / Client

P. O. Box 1069

CHATHAM, VIRGINIA 24531

First Piedmont COMPANY

WASTE REMOVAL & DISPOSAL

PHONE: (800) 476-6780

Name Kerr-McGee Environmental Services

Address: RARP

Richmond VA

Delivered To: FPC

ACCT# TRUCK # 917

DATE	TIME IN	TIME OUT	P.O.#	DRIVER
2/16/11	10 am			Rayon
DATE	TIME IN	TIME OUT	P.O.#	DRIVER

BOX # SPOTTED	BOX # PICKED UP	SALES REP CODE

QUANTITY	DESCRIPTION	AMOUNT
17	Drums of Soil	
	Load - 60	

WORK ORDER # 545-786

TOTAL

Shawn Brine

RECEIVED BY

MOTLEY BUSINESS FORMS CHATHAM VA 24531 33137387 MC 8/07

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
VA1210020730	1	404-925-2985	

GENERATOR

5. Generator's Name and Mailing Address: US ARMY Radford Army Ammunition Plant (RFAAP) RFAAP - Rt. 114, RADFORD, VA 24141

Generator's Site Address (if different than mailing address):

Generator's Phone: 540-639-7668

6. Transporter 1 Company Name: FIRST PIEDMONT CORPORATION — U.S. EPA ID Number: N/A

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: FIRST PIEDMONT CORPORATION, PO DRAWER 1069, CHATHAM, VA 24531 — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	ROCK AND SOIL CUTTINGS FROM SWMU 4/0 (RAAP-003) WELL INSTALLATION	~~10~~ 011	55-gal Drum	6880	~~TON~~ P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: H.R. BLANKENSHIP — Signature — Month: 2 — Day: 08 — Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month: 2 — Day — Year: 12

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

COPY

APPENDIX E

Site Photographs

1. Clay and Topsoil Stockpile

2. Additional Maintenance Area Repair

3. SWMU-40 Drainage Repair

4. SWMU-40 Cover for PCB Point 40SS1

5. Additional Maintenance Area Repairs

6. SWMU-40 Berm Installation

7. SWMU-40 Drainage Swale Improvements

8. SWMU-40 Swale Installation

9. Additional Maintenance Area Repair

10. Additional Maintenance Area Drainage Improvements

11. Completed SWMU-40 Drainage Repair

12. Completed Interim Measures Downgradient Well 40MW7

13. Downgradient Monitoring Well 40MW7

14. SWMU-40 Well Installation Decontamination Pad

APPENDIX F

Field Documentation and Well Log

Attachment 25-3

Daily Safety Meeting

Project Name: RFAAP

Date: 10/17/11

Location: Radford, VA

Presented by: J. W. Senter

Check the Topics/Information Reviewed:

- ☐ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☐ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☑ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:
Speed limits on base, uneven surface, high grass

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
J. Senter	J. Senter	KEMRON
T. Hatten	John Hatten	Kemron
M. GUARDZ	[illegible]	KEMRON

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

Attachment 25-3

Daily Safety Meeting

Project Name: RFAAP

Date: 10/18/11

Location: Radford, VA

Presented by: J. Senter

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☐ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☑ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☐ slips, trips, and falls
- ☑ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
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- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
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- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

uneven ground, trips, slips & falls; animals; trenches

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
J. Senter	J. Senter	KEMRON
J. Hatten	J. Hatten	Kemron
M. SWARTZ	M. SWARTZ	KEMRON
J. WHETZEL	J. WHETZEL	

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

Attachment 25-3

Daily Safety Meeting

Project Name: RFAPP

Date: 10/19/11

Location: Radford, VA

Presented by: J Senter

Check the Topics/Information Reviewed:

- ☐ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☐ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

Truck movement

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
J. Senter	J Senter	UXB-KEMRON
John Hatten	John Hatten	UXB-Kemron
MIKE SWARTZ		UXB-KEMRON

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

Attachment 25-3

Daily Safety Meeting

Project Name: RFAPP

Location: Radford, VA

Date: 10/20/11

Presented by: Mike Bradley

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☐ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☐ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

Cold wind will de hydrate you.

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
John Hatten		URS-Kemron
[illegible]		URS-Kemron
J. W. Senter		URS Kemron

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

Attachment 25-3

Daily Safety Meeting

Project Name: RFB PP

Date: 10/21/11

Location: Radford

Presented by: Mike Brantley

Check the Topics/Information Reviewed:

- [x] Daily work scope reviewed
- [ ] safety is everyone's responsibility
- [ ] site health and safety plan reviewed
- [x] safety glasses, hard hat, safety boots
- [ ] employee Right-To- Know/MSDS location
- [ ] vehicle safety and driving/road conditions
- [ ] hazard analysis for all tasks or new technology
- [ ] chemical hazards
- [ ] first aid, safety, and PPE location
- [x] sharp object, rebar, and scrap metal hazards
- [ ] latex gloves inner/nitrile gloves outer
- [ ] open pits, excavations, and trenching hazards
- [ ] excavation/trenching inspections/documentation
- [ ] full face respirators with proper cartridges
- [ ] upgrade to Level C at:
- [ ] work stoppage at:
- [ ] portable tool safety and awareness
- [ ] slips, trips, and falls
- [ ] strains and sprains
- [ ] anticipated visitors
- [ ] electrical ground fault
- [ ] public safety and fences
- [ ] excavator swing and loading
- [ ] orderly site and housekeeping
- [ ] smoking in designated areas
- [x] leather gloves for protection
- [ ] effects of the night before? Rain or snow?
- [ ] vibration related injuries
- [ ] noise hazards
- [ ] confined space entry
- [ ] hot work permits
- [ ] overhead utility locations cleared?
- [ ] all underground utilities cleared?
- [ ] equipment and machinery familiarization
- [x] fire extinguisher locations
- [ ] eye wash station locations
- [ ] directions to hospital
- [ ] heat and cold stress
- [ ] decontamination steps
- [ ] review emergency protocol
- [ ] parking and laydown area
- [ ] vehicle backing up hazards
- [ ] accidents can be costly
- [ ] no horse play
- [ ] dust and vapor control
- [ ] refueling procedures
- [ ] flying debris hazards
- [ ] poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

Low Clearance Power Lines

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Michael Swartz		URS - Kemron
John Hatten		URS - Kemron
J. Senter		URS - Kemron

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

Attachment 25-3

Daily Safety Meeting

Project Name: RFAAP EOD Date: 10-22-11

Location: SWMU 40 Presented by: Michael Brantley

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☐ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☑ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☑ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☒ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

RFAAP Sponsored Bow Hunt High Visibility Vest 100's

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Michael Swartz		UXB - KEMRON
John Hatten		UXB - KEMRON

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

Attachment 25-3

Daily Safety Meeting

Project Name: RFAAP SWMU 40 Date: 10-24-11

Location: Radford, VA Presented by: Michael Broadway

Check the Topics/Information Reviewed:

- ☐ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☐ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☐ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
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- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
John Hatten	John Hatten	UXB-Kemron
Michael Swooz		UXB-Kemron

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

Attachment 25-3

Daily Safety Meeting

Project Name: RFAAP-SWMU 40 Date: 10-25-11

Location: Radford, VA Presented by: Michael Brantley UXB-KEMRON

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☑ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☑ excavator swing and loading
- ☑ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☑ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☑ overhead utility locations cleared?
- ☐ all underground utilities cleared?
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- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

Low Power & Communication Lines

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Michael Shaver		UXB-KEMRON
John Hatten		UXB-KEMRON

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

Attachment 25-3

Daily Safety Meeting

Project Name: RFAAP - SWMU 40 + 57 Date: 10-26-11

Location: Radford, VA Presented by: Michael Bennett UXB-KEMRON

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☐ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☑ orderly site and housekeeping
- ☐ smoking in designated areas
- ☑ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

Steep Hills
Dump Ground
Housekeeping

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
John Hatten		UXB-KEMRON
Michael Swantz		UXB KEMRON

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

Attachment 25-3

Daily Safety Meeting

Project Name: RAFSP

Date: 11/14/11

Location: SWMU 40

Presented by: M. Bradley

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☑ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☑ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☑ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☑ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☑ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☑ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

Fire hazards

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Jason T. Watts		Bedford Well Drilling
Rodney A. Crawford		"
Michael F. Monaghan		"
Jonah Anderson		UXB Kenmore

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

DAILY SAFETY MEETING

Project Name: SWMU 40 Date: 11/15/11

Location: RFAAP Presented by: M Brantley

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☑ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☐ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

HAND TOOLS

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Michael Brantley	Michael Brantley	UXB - KEMRON
JOSHUA ANDERSON		UXB KEMRON

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

DAILY SAFETY MEETING

Project Name: SWMU 40 Date: 11/16/11

Location: RFAAP Presented by: M. Bradley

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☑ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☑ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☑ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:
Hearing Protection Weather! Lightening Possible
Respiratory "

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Jason Watts		Bedford Well Drilling
Rodney Crawford		"
Michael Mowaga		"
		UXB - Kemron

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

DAILY SAFETY MEETING

Project Name: SWMU 40 Date: 11/17/11 Thursday

Location: RFAAP- Radford, VA Presented by: Michael Bradley UXB-KEMRON

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☑ safety glasses, hard hat, safety boots Hearing Prot
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☑ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☑ leather gloves for protection Cold
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:
Cooler Weather

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Michael Mongler	Michael Mongler	BWD
Rodney Cowford	Rodney Cowford	"
	Scott Anderson	UXB-Kemron

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

DAILY SAFETY MEETING

Project Name: SWMU 40 Date: 11/18/11

Location: RFAAP - Radford, VA Presented by: Michael Brantley UXB Kemron

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☑ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☑ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☑ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☑ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

Demob Drill Rig
Build well Pad
Develop well.

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Josh Anderson		UXB Kemron
Rodney Crawford		BWD
Michael Monaghan		BWD
Jason Watts		BWD

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

DAILY SAFETY MEETING

Project Name: SWMU 40 monitoring Date: 11-20-11

Location: RFAAP, Radford, VA Presented by: Michael Brantley

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☑ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

Monitoring Well Samples

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Michael Brantley		UXB-KEMRON
Jonah Anderson		UXB-KEMRON

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

DAILY SAFETY MEETING

Project Name: SWMU 40 Sampling

Date: 11-21-11

Location: RFAAP, Radford, VA

Presented by: Michael Brawthey

Check the Topics/Information Reviewed:

- ☑ Daily work scope reviewed
- ☐ safety is everyone's responsibility
- ☐ site health and safety plan reviewed
- ☑ safety glasses, hard hat, safety boots
- ☐ employee Right-To- Know/MSDS location
- ☐ vehicle safety and driving/road conditions
- ☐ hazard analysis for all tasks or new technology
- ☐ chemical hazards
- ☐ first aid, safety, and PPE location
- ☐ sharp object, rebar, and scrap metal hazards
- ☐ latex gloves inner/nitrile gloves outer
- ☐ open pits, excavations, and trenching hazards
- ☐ excavation/trenching inspections/documentation
- ☐ full face respirators with proper cartridges
- ☐ upgrade to Level C at:
- ☐ work stoppage at:
- ☐ portable tool safety and awareness
- ☑ slips, trips, and falls
- ☐ strains and sprains
- ☐ anticipated visitors
- ☐ electrical ground fault
- ☐ public safety and fences
- ☐ excavator swing and loading
- ☐ orderly site and housekeeping
- ☐ smoking in designated areas
- ☐ leather gloves for protection
- ☐ effects of the night before? Rain or snow?
- ☐ vibration related injuries
- ☐ noise hazards
- ☐ confined space entry
- ☐ hot work permits
- ☐ overhead utility locations cleared?
- ☐ all underground utilities cleared?
- ☐ equipment and machinery familiarization
- ☐ fire extinguisher locations
- ☐ eye wash station locations
- ☐ directions to hospital
- ☐ heat and cold stress
- ☐ decontamination steps
- ☐ review emergency protocol
- ☐ parking and laydown area
- ☐ vehicle backing up hazards
- ☐ accidents can be costly
- ☐ no horse play
- ☐ dust and vapor control
- ☐ refueling procedures
- ☐ flying debris hazards
- ☐ poison ivy/oak/sumac

Other Discussion Items/Comments/Follow-up Actions:

Sampling
~~SWMU~~ Level, Seed + Straw MW7 Area

NAME (PRINT)	NAME (SIGNATURE)	COMPANY
Michael Brawthey		UXB Redford
Jonah Anderson		UXB - Redford

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow-up on any noted items and document resolution of any action items.

FIELD CALIBRATION FORM

INITIAL CALIBRATION	FINAL CALIBRATION
DATE: 11-14-11	DATE: 11-14-11
TIME: 1320	TIME: 1325

pH METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

pH STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
7.0			
10.0			
4.0			

CONDUCTIVITY METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

COND. STANDARD	INITIAL READING	RECALIB. READING	FINAL READING

DISSOLVED OXYGEN METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING

FIELD CALIBRATION FORM

TURBIDITY METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING

ORD METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING

PID CALIBRATION

CALIBRATION STANDARD REFERENCE NO: Isobutylene

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
100 ppm	—	—	99.8

COMMENTS_____

11-14-11

SIGNATURE_____

FIELD CALIBRATION FORM

INITIAL CALIBRATION	FINAL CALIBRATION
DATE: 11-16-11	DATE: 11-16-11
TIME: 830	TIME: 830

pH METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

pH STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
7.0			
10.0			
4.0			

CONDUCTIVITY METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

COND. STANDARD	INITIAL READING	RECALIB. READING	FINAL READING

DISSOLVED OXYGEN METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING

FIELD CALIBRATION FORM

TURBIDITY METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING

ORD METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING

PID CALIBRATION

CALIBRATION STANDARD REFERENCE NO: 100 BUTYLENE

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
100 ppm	—	—	996

COMMENTS n/a

11-16-11 SIGNATURE

FIELD CALIBRATION FORM

INITIAL CALIBRATION	FINAL CALIBRATION
DATE: 11-20-11	DATE: 11-20-11
TIME: 0800	TIME: 0820

pH METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

pH STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
7.0	7.22	7.00	7.00
10.0	9.90	9.98	9.98
4.0	3.94	4.00	4.00

CONDUCTIVITY METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

COND. STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
1.413 ms/cm	1.286	1.413	1.413

DISSOLVED OXYGEN METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
TAP	98.6	95.4 %	95.6
TAP	8.51	8.45 mg/L	8.45

FIELD CALIBRATION FORM

TURBIDITY METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
100 ntu	126.8	100.4 ntu	100.6 ntu

ORD METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO: FOBOUS

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
229	235.1	229.1	229.1

PID CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
ISOBUTYLENE	—	99.8	99.8 ppm
100 ppm			

COMMENTS_____

SIGNATURE_____

11-20-11

FIELD CALIBRATION FORM

INITIAL CALIBRATION	FINAL CALIBRATION
DATE: 11-21-11	DATE: 11-21-11
TIME: 0730	TIME: 0745

pH METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

pH STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
7.0	7.12	7.00	"
10.0	9.98	9.94	"
4.0	3.96	4.01	"

CONDUCTIVITY METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

COND. STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
1.413	1.396	1.413	"

DISSOLVED OXYGEN METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
TAP	96.5 %	97.4 %	
	8.43	8.45 mg/l	

FIELD CALIBRATION FORM

TURBIDITY METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
100 ntu	105.4	100.1	" "

ORD METER CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
229	231.4	229.4	" "

PID CALIBRATION

CALIBRATION STANDARD REFERENCE NO:_____

METER ID_____

STANDARD	INITIAL READING	RECALIB. READING	FINAL READING
ISOBUTYLENE	_____	100 ppm	" "
100 ppm			

COMMENTS_____

SIGNATURE_____

11-21-11

4

Location DUBLIN, VA Date 9-14-11

Project / Client RFAAP SWMU-40

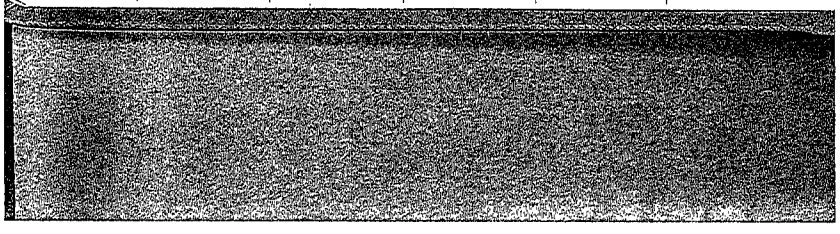
RADFORD, VA

1500 - SUNNY & CLEAR 80A

MET W/ SAM GREGORY OFFSITE TO VIEW SOIL FOR SWMU-40 IMPLEMENTATION. TOOK SEVERAL PICTURES.

- DID NOT TAKE SAMPLES DUE TO CONVERSATION W/ DON KING ABOUT BEING ABLE TO GET SOIL (CLEAN) FROM ALREADY HARVESTED SITE.

OFFSITE @ 1630



Location RFAAP Date 9-15-11

Project / Client RFAAP SWMU-40

RADFORD, VA

ONSITE @ 0930 JCA

CLOUDY & 68°F

- ONSITE TO MEET w/ MATT ALBERTS ABOUT PERMITTING FOR JCA.

- Jeremy Flint & Matt Alberts onsite @ 1000

- COMPLETED HOT WORK PERMIT ; MATT SIGNED PERMIT

- Jonathan Anderson & Jeremy visited SWMU-57 MOST IN GOOD CONDITION, EXCELLENT GROWTH OF SEEDED MIX

OFFSITE @ 1115

6

Location Radford, VA Date 10/17/11

Project / Client RFAPP

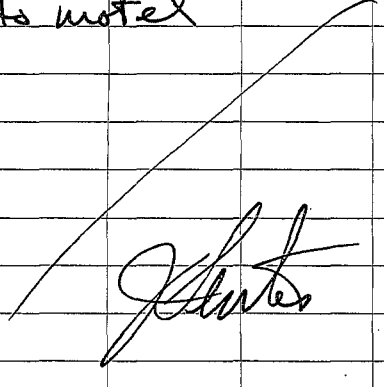
J. Senter

0800 – truck inspection for VA
– get badged, etc.

1100 – Reviewing sites w/ Mike & John
SWMU 40 & 57

Matt w/ ATK came by SWMU 40 & visited a while about safety etc

1545 – back to motel



Work on resumé

Location Radford, VA Date 10/18/11

Project / Client RFAPP

J. Sentz
M. Swartz
J. Hatter

0730 - on site
0745 - to gate 15 w/ Hertz Trencher & backhoe
Anderson & Assoc. surveyor on site / getting badged
H&S tailgate meeting

1000 Montgomery Sanitation on site w/ porta john
1200-1230 lunch
1235 Surveyor back to pick up his base station & leave site
staked 40551 at SWMU 40 repair area
elev. = 1884.73'
staked 40MW7 new proposed monitoring well
elev. = 1919.96'

- to Lowe's for supplies & silt fence 500

1440 - begin trenching operations for silt fence
1540 - clearing around 40MW7
1550 - start trenching for silt fence installation

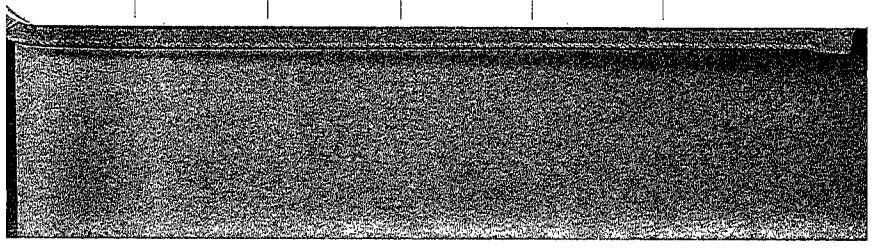
8

Location _____ Date 10/18/11

Project / Client _____

1645 - Jeremy Flint/ATK onsite to look at area w/ Mike S.

1730 - leave site



Location Radford, VA Date 10/19/11

Project / Client RFAPP

Rain J. Senter, M. Swartz, J. Hatter

0730	to Lowe's to get poly; pull trailer to site; get tail light; fuel up eq. truck & drive to RFAAP
0855	H&S tailgate meeting
0945	Jeremy Kent on way over to go w/ Mike & John to view & discuss SMMU 57
1030	1st load clay
1100	2nd load clay
1110	3rd load clay
1135	4th load
1150	5th load — 1155 Hertz w/ Bobcat
1215	6th load
1223	7th load
1245	8th load top soil
1309	9th load
1319	10th load
1345	11th load
1420	12th load
1450	13th load
	last load; cover soil piles w/ plastic
1535	leave summit 40 for gate

Location Radford, VA Date 10/20/11

Project / Client RFAAP

J. Senter
M. Swartz
J. Hafer
M. Brantley

0740 - mike called - wait at gate
0800 - at SWMU 40
H&S tailgate meeting
- calling landscapers - got bid # 2000.00
mike wants bid w/ straw
- start moving clay to make repairs to SWMU 40 slope & top side
- continue hydroseed companies search & contact
1210 - off site for lunch & materials to cut fabric & saw blades
1335 escort Bobcat out to change/fix bucket
- review maps
- talk w/ Mike about berm locations
- mark out approx. location of upper berm
- continue work on repairs to SWMU 40
1640 shut down equipment, cover fill piles
1700 leave site

[redacted]

Location Redford, VA Date 10/21/11 11

Project / Client RFAAP

J. Senter
M. Swartz
M. Brantley
J. Hatt

0800 @ SWMU 40
Safety Mtg + Sign in
Called Home Depot & Lowes for Transit Rental
Neither Have Rental Depts.

0855 - Don King Trucking Escorted to site w/ Load of Rock. Sent Back → wrong size Rock

1000 - Jim McKenna on site. Okayed
Jay here w/ mat + Grass Seed

1030 Jay offsite → Demob
Don King w/ load of Rock

1100 - Brantley offsite to change Rooms, Pick up Grade Stakes & Transit - Lunch

1500 Final Load From Don King
Matt Albert (ATK) onsite 1000 about [illegible] on 11/22

1550 Progress Photos Taken

1630 off site

2 Topsoil
2 Clay
2 6" Rock

12

Location Radford, VA Date 10/22/11

Project / Client REAAP - SWMU 40

M. Swartz
M. Brantley
J. Hatten

1030 On site - delayed start due To Bowhunting in Area
Battery Dead on Backhoe ~~Dead~~ had to Jump Start
Shot Grade on Berms
Began Seeding & Matting
Another Matting.
1410 Mat complete & Rocks in
Photos Taken
OFF Site

Location Radford, VA Date 10-24-11

Project / Client RFAAP SWMU 40 M.Bradley M.Swan J.Hatter

0745 onsite
Backhoe dead. Hertz Notified
Purchased 10 more Rolls of mat + Stove/
0930 Hertz onsite + Replacing Batteries/
first Load of Clay on site
1100 Hertz completed + left site
Permit Secured for SWMU 57
Fuel Purchased - skid Steer Refueled
1505 Jeremy Flint + Jim McKenna onsite
Liked Berms + All work so far
Last Load of clay.
6 Loads Clay today
4 Loads Topsoil today
APPROVED work Completed
To DATE.
Completed clay cap on
For Berms 3 + 4
Saw location & Approved.
Started putting topsoil on
Top of the clay at PCB spot.

1 14

Location Radford, VA Date 10-25-11

Project / Client RFAAP. SWMU 40

0730 onsite, Berms sited To ASSUre drainage
0815 Hertz onsite to install new Batteries in B
0920 Hertz offsite
Pictures Taken Rock swale & new berms
1100 Jim McKenna & Jeremy Plint onsite for site visit - Happy with what They Saw.
1715 Complete - All Grass, Mats & Roc in Place. Pictures taken

ADD ON Rock THAT JIM & JEREMY HAD REQUESTED AT THE TOP OF THE ESTRA SWALE.

[redacted]

Location Radford, VA Date 10-26-11

Project / Client RFAAP. SWMU 40

SWARTZ
BRANTLEY
HATTEN

0745 on site
0810 Jim McKenna on site
Looked at the eastern swales
where was added the rock
to the top of the swales.
Also looked at the where
site all or
1000 Hertz onsite. Picked up
Equipment

TDY MOB at 1200

Location RADFORD, VA Date 11-14-11

Project / Client RRAAP SWMU-40

SUNNY & 64°F

0730 ONSITE FOR BADGING JA/MB

0900 BEDFORD ONSITE FOR BADGING

1100 ONSITE SWMU-40 FOR DRILLING W/ BEDFORD AND MATT ROBERTS TO MOD HOT WORK PERMIT & MEETING W/ STAFF (COMPLETE @ 1115

1215 POSITIONED RIG @ APPROXIMATE LOCATION OF LOCATED POINT

1320 CALIBRATED PID

1330 STARTED DRILLING W/ 10" ROLLER BIT

UPPER SOIL 0-2' SILTY CLAY TAN - PID = 0.0

2' HIT ROCK - REDDISH STAINED LIMESTONE - BRITTLE

8' SMALL SEAM W/ LIMESTONE SILT CLAY

12' LIMESTONE APPARENT BEDROCK GRAY - LIGHT GREY IN COLOR

~1' - SMALL SOFT ZONE MOIST @ 12-16' SILTY CLAY - WEATHERED (STAINED) PID = 0.0, BEDROCK W/ SMALL ROCK FRAGMENTS

17' BACK TO LIMESTONE

Location RADFORD, VA Date 11-14-11

Project / Client RRAAP SWMU-40

CONT....

17-20' BEDROCK - LIMESTONE

SETTING OUTER CASING 0-20'

OFFSITE @ 1445 TO GET CONCRETE

ONSITE @ 1530 TO GROUT/CEMENT OUTER CASING ON LOCK - (COMPLETED) GROUT/CEMENT @ 1630 (WAITING 24 HRS FOR CURING).....

NOTE: MB (COMPLETED) H&S MEETING @ 1130

(CONTAMINATED) SOIL/ROCK CUTTINGS = 2 DRUMS

OFFSITE @ 1730

Location RADFORD, VA Date 11-15-11

Project / Client READY SUMU 40

ONSITE @ 0930. TB MEET W/ JIM MCCONNA, JA & MB
- RAIN, 59°F

- JIM M. INDICATED AREA OF CONCERN
- MB & JA SMOOTHED AREA W/ RAKES & SHOVELS

- INSPECTED DRILL AREA W/ JIM McCONNA (NO COMPLAINTS) EVERYTHING LOOKS FINE

OFFSITE @ 1100

Location RADFORD, VA Date 11-16-11

Project / Client READY SUMU-40

ONSITE @ 0750 JA/MB
RAIN, 57°F
REDFORD BUILDING ONSITE @ 0750
0830 - COMPLETED H&S MEETING
CIRCLED SEAL - CLOSED!
- CALIBRATED PID
STARTED DRILLING @ 0845

20' - 30' LIMESTONE PID = 0.0
30' - 31' REDDISH SILTY CLAY LAYER W/ WEATHERED SHALE & LIMESTONE FRAGMENTS SLIGHTLY MOIST PID = 0.0
31' - 38' LIMESTONE PID = 0.0
38' - 40' WEATHERED ~~LIMESTONE~~ SHALE & SILTY CLAY (REDDISH) DRY-SLIGHTLY MOIST PID = 0.0
40' - 55' LIMESTONE PID = 0.0
55' - 50' ~~SET~~ SILTY CLAY W/ WEATHERED BEDROCK FRAGMENTS MEDIUM TAN COLOR PID = 0.0
50' - 70' LIMESTONE PID = 0.0
W/ SOME 1" PEBBLY WEATHERED SHALE

Location RADFORD, VA Date 11-16-11

Project / Client RFAAP SWMU 40

cont....

70'

* TARGET ZONE BEGINNING ELEVATION 1850' MSL

70' - 80'	limestone	PID = 0.0
80' - 90'	limestone	PID = 0.0
90 - 100	limestone	PID = 0.0
100 - 105'	limestone	PID = 0.0
105' - 106'	weathered stone mostly moist	PID = 0.0
106' - 110'	limestone	PID = 0.0
110' - 120'	limestone	PID = 0.0
120' - 130'	limestone	PID = 0.0
130' - 140'	limestone	" "
140' - 148'	limestone	" "
@ 148'	6" weathered rock	
149' - ~~150~~ 190'	limestone	PID = 0.0

- NO SUBSTANTIAL WATER BEARING ZONE, ON HOLD UNTIL DECISION MADE ON SCREEN

Location RADFORD, VA Date 11-16-11

Project / Client RFAAP SWMU 40

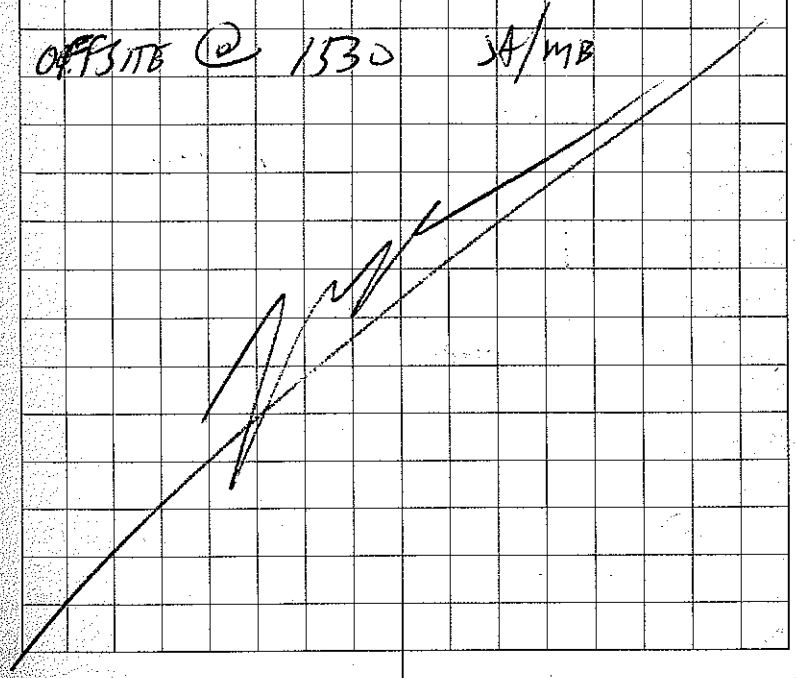
Cont...

TO SCREEN

DECISION IS TO SCREEN 145' - 165'.

- MOVING DRUMS OF SOIL/ROCK TO DRUM STORAGE AREA (TOTAL 10 DRUMS OF SOIL/ROCK CUTTINGS)

OFFSITE @ 1530 JA/MB



Location RADFORD, VA Date 11-17-11

Project / Client RFAAP, VA SWMU-40

ONSITE @ 1000 J.T/MB
W/ BEDFORD DRILLING
COLD, SNOWY 39°F
- COMPLETED H&S MEETING

1015 - STARTED RUNNING ROD
ESTIMATED 47' WATER
≈ 143' BGS
MEASURED 156.6' TO WATER BGS
TOTAL DEPTH 189' ±
WELL CONSTRUCTION:
BOTTOM TO BOTTOM SEAL
BGS - HIT 1
NOTE: 3 1/4 FT/hr UP TO 167' BGS

SAND TO 164.6' BGS
SCREEN TO 144.8' BGS w/ BOTTOM CAP
SAND TO ~~140.5'~~ 140.5' BGS
BENTONITE TO 135' BGS
CEMENT/GROUT TO 15' BGS
BENTONITE TO 3' BGS
DEPTH TO WATER 148.8' TOC TD 167.5' TOC
DEVELOPED ≈ 10 gallons @ NOTE: 154.3' AFTER PURGE.
OFFSITE @ 1930

Location RADFORD, VA Date 11-18-11

Project / Client RFAAP, VA SWMU 40

ONSITE @ 0830 (A), MD
W/ BEDFORD DRILLING TO
COMPLETE INSTALLATION OF
40 MW7
- COMPLETED H&S MEETING
- DEPTH TO WATER
145.4' FROM TOC
- TOTAL DEPTH
167.5 FROM TOC
- COMPLETING WELL INSTALL
PAD, BARRIER, PROTECTIVE
CASING
- MJS ANDERSON & ASEC
ONSITE TO COMPLETE
SURVEYING 40 MW7
AND LOCATIONS OF BORING
- ANDERSON & ASEC OFFSITE
@ 1330
- WELL COMPLETED @ 1430
IN ACCORDANCE W/ SOP 20.1,
20.2 & THE APPROVED SMAP
- MOVED 1 DRUM OF DECON/DEVELOP. WATER
& 1 DRUM OF PLASTIC TO DRUM STORE
OFFSITE 1630

Location RFAAP, RADFORD VA Date 11-20-11

Project / Client SWMU 40 RFAAP

0800 CALIBRATED YSI & PID
0830 ONSITE JA, MB
COMPLETED H&S MEETING
SUNNY & 41°F
- STARTING GW MON. PURGED ON 40MW7 PID = 0.0 ppm
- WL = 145.14'
- COMPLETED 1205, DEGASSED & SAMPLED
- STARTING GW MON. PURGED ON 40MW5 @ 1430
PID = 0.0
COMPLETED @ 1525
COLLECTED SAMPLE, MS, MSD, DUP & RINSE BLANK, & FIELD BLANK.

PACKED SAMPLES ON ICE
MOVED DECON WATER TO DRUM STORAGE AREA

OFFSITE 1900

Location RFAAP, RADFORD VA Date 11-21-11

Project / Client SWMU 40 RFAAP

0730 CALIBRATED YSI & PID
0800 ONSITE SA, MB
COMPLETED H&S MEETING
CLOUDY, 52°F
- STARTING GW MONITORING ON 40MW6 PID = 0.0
WL - 106.25'
SAMPLED @ 0934, COLLECTED EQR @ 1110

- STARTING GW MONITORING ON LF MW1 @ 1150
PID = 0.0 ppm
WL - 84.95'
- TUBING STUCK IN WELL REMOVED, LOOKS LIKE DOLLY TUBING W/ DUCT TAPE
SAMPLED @ 1354

DECON PUMP

MOVED IDW TO STORAGE AREA

Location RADFORD, VA Date 11-21-11

Project / Client RFAAP SWMU 40

cont..

1600 PACKAGED DIOXIN/FURAN SAMPLES FOR SHIPMENT
* WENT TO FEDEX

1700 BACK ONSITE TO COLLECT IDW SAMPLES

10 DRUMS CUTTINGS

2 DRUMS CONTACTED PLASTIC/WASTE

① 1 DRUM DECON/PURGE (DEVELOP) WATER FROM 40MW7

② 2 DRUMS FROM GW SAMPLING PURGE/DECON ≈ 80 gallons

① ph = 8.66 (BOD, COD, Metals) 1755

② ph = 8.24 (BOD, COD) 1800

collected cutting comp.. @ 1805

Location RADFORD, VA Date 11-21-11

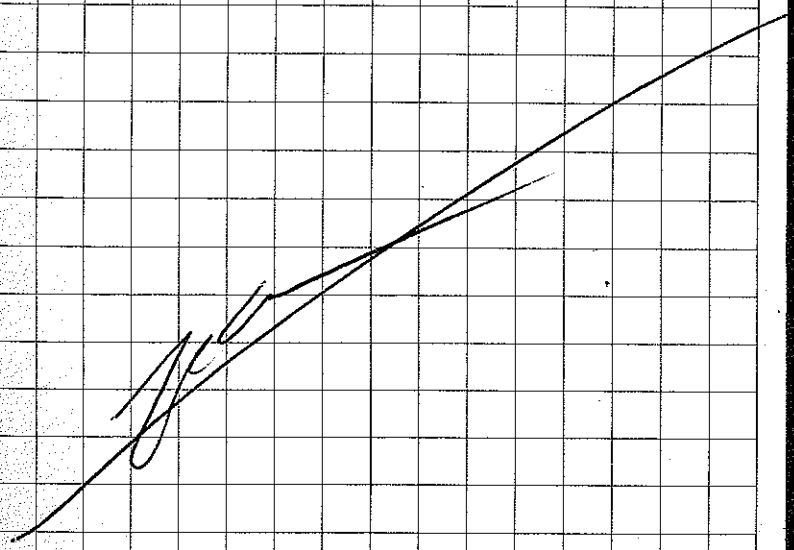
Project / Client RFAAP SWMU 40

cont....

COMPOSITED ARE WERE SAMPLING IN ACCORDANCE W/ SOP 30.2 & THE APPROVED SWMU 40 WMWT

NOTE:

WL	
65.13	- 40mw4
95.44	40mw3
57.32	40mw2



28

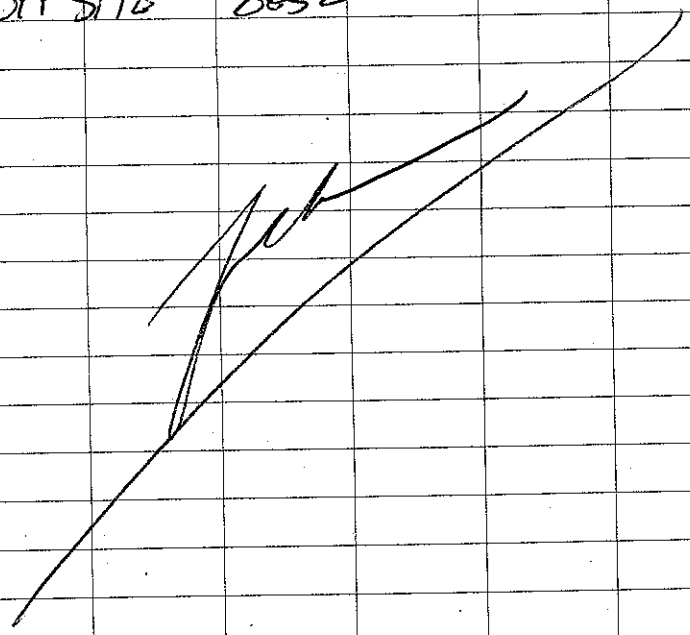
Location RADFORD VA Date 11-22-11

Project / Client SWMU 40 RFAAP

ONSITE @ 0750 SA/MB
54°F, RAIN

- HEAD TO MEET JIM McKENNA FOR PICTURE APPROVAL & SITE WALK
- JIM ONSITE @ 0810 SAYS EVERYTHING LOOKS GOOD

OFF SITE 0850



29

Location Date

Project / Client

SOIL BORING AND WELL LOG

KEMRON ENVIRONMENTAL SERVICES

PROJECT NUMBER: MR0669
PROJECT: SWMU 40
LOCATION: RFAAP, RADFORD VA
DRILLING METHOD: AIR ROTARY
DRILLER: BEDFORD
DRILLING CONTRACTOR: BEDFORD
NORTHING:

SHEET: 1 of ~~1~~ 8
BORING NUMBER: 40MW7
GEOLOGIST: SA
START: 11-14-11
FINISH: 11-18-11.
TOC ELEVATION:
EASTING:

DEPTH BELOW SURFACE (FT)	SAMPLE: LITHILOGIC SYMBOL	SAMPLE: INTERVAL	SAMPLE: PID	SAMPLE: USCS Symbol	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS: 6" - 6" - 6" "N"	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	WELL DESCRIPTION: WELL COMPLETION DETAILS: WELL TYPE, DEPTH, SCREEN LENGTH, COVER, ETC.
0			0.0				Ground Surface	CEMENT/GROUTE SEAL
1							0-2' TOPSOIL (OH) & CLAY (CL) MOIST COLOR DARK REDDISH BROWN A TO REDDISH CLAY	10' REVERSE BIT
2							7.5 YR 3/3 Δ 7.5YR 5/6	CONCRETE
3								
4								
5								
6			0.0			2-8'		
7							@ 2' HIT COMPETONT ROCK BRITTLE STRIPED REDDISH LIMESTONE	
8								
9								
10			0.0				SMALL SEAM OF CLAY W/ LIMESTONE PLACEMENTS (REDDISH BROWN) 7.5 YR 6/4, MOIST	BENTONITE
11								
12								
13								
14			0.0				SAME ↑ BUT W/ WEATHERED SHALE	
15								
16			0.0				SOFT CLAY ZONE 2.5YR 5/6 MOIST	CEMENT GROUT SEAL
17							COMPETONT ROCK LIMESTONE GREY IN COLOR	
18								
19								
20								@ 20' USED 6" BIT TO COMPLETION

NOTE PID HITS FOR 40MW7 = 0.0 TO COMPLETION

SOIL BORING AND WELL LOG 2-8

KEMRON ENVIRONMENTAL SERVICES

PROJECT NUMBER:
PROJECT:
LOCATION:
DRILLING METHOD:
DRILLER:
DRILLING CONTRACTOR:
NORTHING:

SHEET: 1 of 1 2
BORING NUMBER:
GEOLOGIST: JA
START:
FINISH:
TOC ELEVATION:
EASTING:

DEPTH BELOW SURFACE (FT)	SAMPLE: LITHILOGIC SYMBOL	SAMPLE: INTERVAL	SAMPLE: PID	SAMPLE: USCS Symbol	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS: 6" - 6" - 6"- 6" "N"	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	WELL DESCRIPTION: WELL COMPLETION DETAILS: WELL TYPE, DEPTH, SCREEN LENGTH, COVER, ETC.
0			0.0				Ground Surface	
1							LIMESTONE *COMPETENT ROCK	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11						30-31'	GUTY CLAY WEATHERED SHALE FRAGMENTS	
12							LIMESTONE COMPETENT ROCK	
13								
14								
15						31-38'		
16								
17								
18								
19						38'-40	WEATHERED limestone fragments silty clay (DRY) REDISH & TAN 7.5 YR 7/6	
20								

20'
30
40'

RISER
CEMENT/BENTO SEAL

SOIL BORING AND WELL LOG

3-8

KEMRON ENVIRONMENTAL SERVICES

PROJECT NUMBER:
PROJECT:
LOCATION:
DRILLING METHOD:
DRILLER:
DRILLING CONTRACTOR:
NORTHING:

SHEET: ~~1 of 1~~ 3
BORING NUMBER:
GEOLOGIST:
START:
FINISH:
TOC ELEVATION:
EASTING:

DEPTH BELOW SURFACE (FT)	SAMPLE: LITHILOGIC SYMBOL	SAMPLE: INTERVAL	SAMPLE: PID	SAMPLE: USCS Symbol	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS: 6" - 6" - 6" "N"	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	WELL DESCRIPTION: WELL COMPLETION DETAILS: WELL TYPE, DEPTH, SCREEN LENGTH, COVER, ETC.
40								
0							Ground Surface	
1							LIMESTONE COMPETENT ROCK	
2						40-55'		
3								
4								
5						55-56'	SILTY CLAY w/ weathered bedrock fragments 7.5 YR 7/6	
6								
7								
8								
9						56-70'	LIMESTONE COMPETENT ROCK	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
70								

RISER
CEMENT/GROUT SEAL

KEMRON
ENVIRONMENTAL SERVICES

SOIL BORING AND WELL LOG 4-8

PROJECT NUMBER:
PROJECT:
LOCATION:
DRILLING METHOD:
DRILLER:
DRILLING CONTRACTOR:
NORTHING:

SHEET: ~~1 of 1~~ 4 of 4
BORING NUMBER:
GEOLOGIST:
START:
FINISH:
TOC ELEVATION:
EASTING:

DEPTH BELOW SURFACE (FT)	SAMPLE: LITHILOGIC SYMBOL	SAMPLE: INTERVAL	SAMPLE: PID	SAMPLE: USCS Symbol	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS: 6" - 6" - 6"- 6" "N"	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	WELL DESCRIPTION: WELL COMPLETION DETAILS: WELL TYPE, DEPTH, SCREEN LENGTH, COVER, ETC.
60								
0							Ground Surface	
1								
2								
3								
4								
5								
6								
7								
8								
9						TARGET ZONE 185' BGS/MSL		
70 10								
11								
12							LIMESTONE COMPETENT ROCK	
13						70-105'		
14								
15								
16								
17								
18								
19								
80 20								

RISER
CONCRETE SEAL

KEMRON
ENVIRONMENTAL SERVICES

SOIL BORING AND WELL LOG 5-8

PROJECT NUMBER:
PROJECT:
LOCATION:
DRILLING METHOD:
DRILLER:
DRILLING CONTRACTOR:
NORTHING:

SHEET: ~~1 of 1~~ 5
BORING NUMBER:
GEOLOGIST:
START:
FINISH:
TOC ELEVATION:
EASTING:

DEPTH BELOW SURFACE (FT)	SAMPLE: LITHILOGIC SYMBOL	SAMPLE: INTERVAL	SAMPLE: PID	SAMPLE: USCS Symbol	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS: 6" - 6" - 6"- 6" "N"	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	WELL DESCRIPTION: WELL COMPLETION DETAILS: WELL TYPE, DEPTH, SCREEN LENGTH, COVER, ETC.
0							Ground Surface	
1							SAME	
2								
3								
4								
5								
6								SAME AS Page 4
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

KEMRON
ENVIRONMENTAL SERVICES

SOIL BORING AND WELL LOG 6-8

PROJECT NUMBER:
PROJECT:
LOCATION:
DRILLING METHOD:
DRILLER:
DRILLING CONTRACTOR:
NORTHING:

SHEET: ~~1 of 1~~ 6
BORING NUMBER:
GEOLOGIST:
START:
FINISH:
TOC ELEVATION:
EASTING:

DEPTH BELOW SURFACE (FT)	SAMPLE: LITHILOGIC SYMBOL	SAMPLE: INTERVAL	SAMPLE: PID	SAMPLE: USCS Symbol	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS: 6" - 6" - 6" - 6" "N"	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	WELL DESCRIPTION: WELL COMPLETION DETAILS: WELL TYPE, DEPTH, SCREEN LENGTH, COVER, ETC.
100							Ground Surface	
0							same ↑ ↓	
1								
2								
3								
4								
5								
6						105-106'		
7							weathered stone reddish color moist	same as page 5
8								
9						106-148'	competent rock limestone	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
120								

KEMRON
ENVIRONMENTAL SERVICES

SOIL BORING AND WELL LOG 7-8

PROJECT NUMBER:
PROJECT:
LOCATION:
DRILLING METHOD:
DRILLER:
DRILLING CONTRACTOR:
NORTHING:

SHEET: 1 of ~~1~~ 7
BORING NUMBER:
GEOLOGIST:
START:
FINISH:
TOC ELEVATION:
EASTING:

DEPTH BELOW SURFACE (FT)	SAMPLE: LITHILOGIC SYMBOL	SAMPLE: INTERVAL	SAMPLE: PID	SAMPLE: USCS Symbol	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS: 6" - 6" - 6" - 6" "N"	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	WELL DESCRIPTION: WELL COMPLETION DETAILS: WELL TYPE, DEPTH, SCREEN LENGTH, COVER, ETC.
0							Ground Surface	
1								
2								
3								
4								
5								
6								
7								
8								
9							SAME	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

120

40

SAME AS 6

13.5-15' CEMENT/GROUT SEAL

14.5-13.5 BENT SEAL

PISTON

SOIL BORING AND WELL LOG 8-8

KEMRON ENVIRONMENTAL SERVICES

PROJECT NUMBER:
PROJECT:
LOCATION:
DRILLING METHOD:
DRILLER:
DRILLING CONTRACTOR:
NORTHING:

SHEET: ~~1 of 1~~ 1 of 8
BORING NUMBER:
GEOLOGIST:
START:
FINISH:
TOC ELEVATION:
EASTING:

DEPTH BELOW SURFACE (FT)	SAMPLE: LITHILOGIC SYMBOL	SAMPLE: INTERVAL	SAMPLE: PID	SAMPLE: USCS Symbol	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS: 6" - 6" - 6" - 6" "N"	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	WELL DESCRIPTION: WELL COMPLETION DETAILS: WELL TYPE, DEPTH, SCREEN LENGTH, COVER, ETC.
140							Ground Surface	
0								
1								
2								
3							SAND	
4								
5								
6								
7								
8								
9							6"-1' weathered silty stone moist (tan color) 10YR 8/4	
10								
11								
12								
13							COMPETENT ROCK LIMESTONE	
14								
15								
16								
17								
18								
19								
160								
20								

A water bearing zone 148'

149' ↓ 190'

SAND TO 140.5'

RISER

SCREEN TO 144.4

SCREEN

CAP

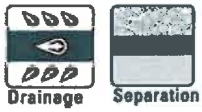
145 ↑ 167'

SAND

90 ↓

NOTE - BENTONITE BACK TO 167'

TENCATE
Mirafi



Mirafi® 160N

Mirafi® 160N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 160N geotextile is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	N (lbs)	712 (160)	712 (160)
Grab Tensile Elongation	ASTM D 4632	%	50	50
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	267 (60)	267 (60)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2101 (305)	
Puncture Strength[1]	ASTM D 4833	N (lbs)	423 (95)	
CBR Puncture Strength	ASTM D 6241	N (lbs)	1780 (400)	
Apparent Opening Size (AOS)[2]	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)	
Permittivity	ASTM D 4491	sec^{-1}	1.4	
Flow Rate	ASTM D 4491	$l/min/m^2$ ($gal/min/ft^2$)	4481 (110)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

[1] ASTM D 4833 has been replaced with ASTM D 6241
[2] ASTM D 4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value
Weight	ASTM D 5261	g/m^2 (oz/yd^2)	220 (6.5)
Thickness	ASTM D 5199	mm (mils)	1.7 (65)
Roll Dimensions (width x length)	--	m (ft)	4.5 x 91 (15 x 300)
Roll Area	--	m^2 (yd^2)	418 (500)
Estimated Roll Weight	--	kg (lb)	97 (215)

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UXB–Kemron Environmental Services, Inc.
2020 Kraft Drive, Suite 2100
Blackburg, VA 24060
Telephone: (540) 443-3700
Fax: (540) 443-3790

WELL NUMBER 40-MW-7

CLIENT U.S. Army Corps of Engineers – Baltimore Dist.
PROJECT NAME SWMU 40, RAAP-009
PROJECT NUMBER MR0669-200-002
PROJECT LOCATION Radford Army Ammunition Plant, VA
DATE STARTED 11/14/11 COMPLETED 11/18/11
GROUND ELEVATION 1919.83 ft HOLE SIZE 10" / 6"
DRILLING CONTRACTOR Bedford
GROUND WATER LEVELS:
DRILLING METHOD Air Rotary
AT TIME OF DRILLING 143.00 ft / Elev 1776.83 ft
LOGGED BY JA CHECKED BY JA
AT END OF DRILLING 142.16 ft / Elev 1777.67 ft
NOTES Coordinates – 3594419.6223,10886145.0515
AFTER DRILLING 141.90 ft / Elev 1777.93 ft

DEPTH (ft)	Environmental Data	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0		OH		ORGANIC SOIL, (OH), dark reddish brown, moist. 7.5 YR 3/3	1918.8
		CL	1.0 / 2.0	LEAN CLAY, (CL), reddish brown, moist. 7.5 YR 5/6	1917.8
5				DOLOMITE LIMESTONE, pinkish gray, hard, dry, brittle	
			8.0		1911.8
10	PID = 0	CL		LEAN CLAY, (CL), reddish brown, moist, with Limestone fragments. 7.5 YR 6/6	
			12.0		1907.8
15		CL		LEAN CLAY, (CL), reddish brown, moist, with weathered Shale fragments. 7.5 YR 6/6	
			16.0		1903.8
		CL	17.0	LEAN CLAY, (CL), red, moist, soft. 2.5 YR 5/8	1902.8
20	PID = 0			LIMESTONE, gray, hard, dry	
25					
30			30.0		1889.8
	PID = 0	CL-ML	31.0	LEAN CLAY, (CL-ML), reddish tan, with weathered Shale fragments.	1888.8
35				LIMESTONE, gray, hard, dry	
			38.0		1881.8
40		CL-ML	40.0	LEAN CLAY, (CL-ML), reddish tan, dry, with weathered Limestone fragments. 7.5 YR 7/6	1879.8

WELL DIAGRAM

Protective Casing
Casing Top Elev: 1923.07 (ft)
Casing Type: PVC
Cement Grout Seal
Concrete
Bentonite
6" I.D. Surface Casing
Cement Grout Seal

(Continued Next Page)

GENERAL BH / TP / WELL – GINT STD US.GDT – 1/23/12 09:09 – C:\USERS\DBURNETT\DESKTOP\40-MW-7.GPJ

UXB-Kemron Environmental Services, Inc.
2020 Kraft Drive, Suite 2100
Blackburg, VA 24060
Telephone: (540) 443-3700
Fax: (540) 443-3790

WELL NUMBER 40-MW-7

CLIENT U.S. Army Corps of Engineers - Baltimore Dist.
PROJECT NAME SWMU 40, RAAP-009
PROJECT NUMBER MR0669-200-002
PROJECT LOCATION Radford Army Ammunition Plant, VA

DEPTH (ft)	Environmental Data	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
40	PID = 0			LIMESTONE, gray, hard, **dry**	
45					
50	PID = 0				
55				55.0 1864.8	
		CL-ML		56.0 LEAN CLAY, (CL-ML), reddish tan, with weathered Limestone fragments. 7.5 YR 7/6 1863.8	← Cement Grout Seal
				LIMESTONE, gray, hard, **dry**	
60	PID = 0				
65					
70					
75					
80	PID = 0				
85					

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/12 09:09 - C:\USERS\DBURNETT\DESKTOP\40-MW-7.GPJ

(Continued Next Page)

UXB-Kemron Environmental Services, Inc.
2020 Kraft Drive, Suite 2100
Blackburg, VA 24060
Telephone: (540) 443-3700
Fax: (540) 443-3790

WELL NUMBER 40-MW-7

CLIENT U.S. Army Corps of Engineers - Baltimore Dist.
PROJECT NAME SWMU 40, RAAP-009
PROJECT NUMBER MR0669-200-002
PROJECT LOCATION Radford Army Ammunition Plant, VA

DEPTH (ft)	Environmental Data	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
90				LIMESTONE, gray, hard, dry (continued)	
95					Cement Grout Seal
100	PID = 0				
105				105.0 1814.8	
				106.0 DOLOMITE LIMESTONE, moderately weathered, pinkish gray, medium hard, damp 1813.8	
110				LIMESTONE, gray, hard, dry	
115					
120	PID = 0				
125					
130					

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/12 09:09 - C:\USERS\DBURNETT\DESKTOP\40-MW-7.GPJ

(Continued Next Page)

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2020 Kraft Drive, Suite 2100
Blackburg, VA 24060
Telephone: (540) 443-3700
Fax: (540) 443-3790

WELL NUMBER 40-MW-7

CLIENT U.S. Army Corps of Engineers - Baltimore Dist.
PROJECT NAME SWMU 40, RAAP-009
PROJECT NUMBER MR0669-200-002
PROJECT LOCATION Radford Army Ammunition Plant, VA

DEPTH (ft)	Environmental Data	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
135				LIMESTONE, gray, hard, dry (continued)	Cement Grout Seal
140	PID = 0				Bentonite
145					
				148.0 1771.8	
				SILTSTONE, highly weathered, tan (10YR 8/4), medium hard, **wet**	
				149.0 1770.8 Water Bearing Zone	Filter Pack
150				LIMESTONE, gray, hard, **dry**	Slotted Screen
155					
160	PID = 0				
165					Screen Cap
170					
175					Bentonite

(Continued Next Page)

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/12 09:09 - C:\USERS\DBURNETT\DESKTOP\40-MW-7.GPJ

UXB-Kemron Environmental Services, Inc.
2020 Kraft Drive, Suite 2100
Blackburg, VA 24060
Telephone: (540) 443-3700
Fax: (540) 443-3790

WELL NUMBER 40-MW-7

CLIENT U.S. Army Corps of Engineers - Baltimore Dist.
PROJECT NAME SWMU 40, RAAP-009
PROJECT NUMBER MR0669-200-002
PROJECT LOCATION Radford Army Ammunition Plant, VA

DEPTH (ft)	Environmental Data	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
180	PID = 0			LIMESTONE, gray, hard, dry (continued)	Bentonite
185					
190				190.0 1729.8	

Bottom of borehole at 190.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 1/23/12 09:09 - C:\USERS\DBURNETT\DESKTOP\40-MW-7.GPJ

APPENDIX G

Interim Measures Correspondence:

- **USEPA and VDEQ approval of IMWP**
- **RFAAP approval to dispose of liquid IDM**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

August 26, 2011

Commander,
Radford Army Ammunition Plant
Attn: SJMRF-OP-EQ (Jim McKenna)
P.O. Box 2
Radford, VA 24141-0099

P.W. Holt
Environmental Manager
Alliant Techsystems, Inc.
Radford Army Ammunition Plant
P.O. Box 1
Radford, VA 24141-0100

VIA Electronic Mail

Re: Radford Army Ammunition Plant, Radford, Virginia
Solid Waste Management Unit 40
Interim Measures Work Plan

Dear Mr. McKenna and Ms. Holt:

The U.S. Environmental Protection Agency (EPA) and Virginia Department of Environmental Quality (VDEQ) have reviewed the U.S. Army's (Army's) Solid Waste Management Unit 40 (SWMU), Landfill Nitro Area Interim Measures Work Plan, for SWMU 40 located at the Radford Army Ammunition Plant (RFAAP) in Radford, Virginia. Based upon our review, the Work Plan is approved, and in accordance with Part II. (E)(5) of RFAAP's Corrective Action Permit, the Work Plan is considered final. If you have any questions, please call me at 215-814-3284.

Sincerely,

Erich Weissbart

Erich Weissbart, P.G.
RCRA Project Manager
Office of Remediation (3LC20)

c: James Cutler, VDEQ

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Customer Service Hotline: 1-800-438-2474

From: Habersack, Matt [mailto:Mathew.Habersack@ATK.COM]
Sent: Wednesday, December 21, 2011 3:01 PM
To: Jonah Anderson; Flint, Jeremy; Alberts, Matthew
Cc: McKenna, Jim; Mary Lou Rochotte; Hatfield, Greg
Subject: RE: RFAAP SWMU 40 IDW Disposal

The Bioplant will be able to accept the 135 gallons of water. Please sign in with the Bioplant operator as usual.

Thank you,
Matt Habersack

****

Matt Habersack
Environmental Engineer
ATK Armament Systems
Radford Army Ammunition Plant
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From: Jonah Anderson [mailto:janderson@kemron.com]
Sent: Wednesday, December 21, 2011 9:42 AM
To: Flint, Jeremy; Alberts, Matthew
Cc: McKenna, Jim; Mary Lou Rochotte; Habersack, Matt
Subject: RFAAP SWMU 40 IDW Disposal

Hi Jeremy, We have the analytical back and I want to see if the bioplant will accept the decon/purge water from the groundwater event (total of approximately 135 gallons). We have SWS Eagle set up to remove the cuttings if you would rather us use someone else such as one of the recommended places from before; please let me know. I have not set up a day for removal because I want to make sure the bioplant will accept the water first. There are a total of three drums with purge/decon water: D1 is the drill rig decon and development water from 40MW07 (pH=8.66); D2 is a composite of the other two drums of purge and decon water from the sampling event (pH=8.24). The lab had issues with total metals from D1 but will report them soon. As soon as this data is available I will send them on. The lab reports are attached. Please contact me with any questions or concerns. Thanks, Jonah

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From: Habersack, Matt [Mathew.Habersack@ATK.COM]
Sent: Thursday, January 12, 2012 8:54 AM
To: Jonah Anderson
Cc: McKenna, Jim; Flint, Jeremy; Alberts, Matthew; Mary Lou Rochotte; Sandia Sommer
Subject: RE: RFAAP SWMU 40 IDW Revised Data

No change in approval... Thanks

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Matt Habersack
Environmental Engineer
ATK Armament Systems
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From: Jonah Anderson [mailto:janderson@kemron.com]
Sent: Thursday, January 12, 2012 8:30 AM
To: Habersack, Matt
Cc: McKenna, Jim; Flint, Jeremy; Alberts, Matthew; Mary Lou Rochotte; Sandia Sommer
Subject: RFAAP SWMU 40 IDW Revised Data

I have attached the revised data for the IDW from SWMU 40. The only change is the addition of Total-Metals data for the IDW water to be disposed of at the Bioplant. The levels are very low so I do not foresee a change in approval. Please let me know. Thanks, Jonah

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