

## Atmospheric Analysis & Consulting, Inc.

Client : SWAPE.  
Client Project Name : Bridgeton Sanitary Landfill Air Quality Assessment  
Client Project No. : NA  
AAC Project No. : 130559  
Reporting Date : 05/14/2013

On May 9, 2013, Atmospheric Analysis & Consulting, Inc. received eight (8) Silica Gel Tubes for HCL analysis by NIOSH Method 7903. Upon receipt each sample was assigned a unique Laboratory ID number as follows:

Client Sample ID	AAC Sample ID
Trip Blank-HCL	130559-62845
BZ-2-HCL	130559-62855
U1-HCL	130559-62864
U2-HCL	130559-62873
U3-HCL	130559-62882
D1-HCL	130559-62891
D2-HCL	130559-62900
D3-HCL	130559-62909


NIOSH 7903 Analysis – Up to a 5mL aliquot of the sample was injected into the DIONEX IC for analysis following NIOSH 7903 as specified in the SOW.

All sample values were blank corrected using the Trip Blank value for HCL. The Trip Blank value was calculated using a sample volume of 100 Liters.

No other problems were encountered during receiving, preparation, and/or analysis of these samples. The test results included in this report meet all requirements of the NELAC Standards and/or AAC SOP# N.7903.02.

I certify that this data is technically accurate, complete and in compliance with the terms and conditions of the contract. The Laboratory Director or his designee, as verified by the following signature, has authorized the release of the data contained in this hardcopy data package.

If you have any questions or require further explanation of data results, please contact the undersigned.

  
Marcus Hueppe  
Laboratory Director

This report consists of 45 pages.



AAE 130559

**CHAIN OF CUSTODY RECORD / ANALYTICAL REQUEST FORM**

Bridgeton Sanitary Landfill Air Quality Assessment

Client Name: SOIL / WATER AIR PROTECTION ENTERPRISE		Telephone No. / Fax No.: (310) 434-0110 / (310) 434-0011		Date:	Page of			
Project Manager: PAUL ROSENFELD, PH.D.		<b>REQUESTED TESTS / ANALYSES</b>						
Address: 1640 FIFTH STREET, SUITE 204, SANTA MONICA, CA 90401								
Project Name and Location: BRIDGETON SANITARY LANDFILL AIR QUALITY ASSESSMENT		<div style="text-align: right;">Special Instructions / Conditions of Receipt</div>						
Sampled By: <i>Paul Rosenfeld</i>	Sampler Signature: <i>Paul Rosenfeld</i>							
LAB ID	SAMPLE ID NUMBER					Type	Date	Time
02843	TRAIL BLANK - WPH							
02844	- ACIDS							
02845	- HEL							
02846	- AMMONIA							
02847	- SO2							
02848	- HCN							
02849	- AMINES							
02850	- MERCURY							
02851	- CANISTER							
Requested Turnaround Time: Standard turn-around for all analyses. If possible deliver report within 2 weeks.		QC Requirements: Provide Level IV QC Package for all Analyses.						
Relinquished By: <i>Paul Rosenfeld</i>	Date: 5/8/13	Time: 15:00	Received By: <i>Paul Rosenfeld</i>	Date: 5/9/13	Time: 09:35			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:			

SOIL / WATER / AIR PROTECTION ENTERPRISE

- FELIX

# CHAIN OF CUSTODY RECORD / ANALYTICAL REQUEST FORM

Bridgeton Sanitary Landfill Air Quality Assessment

Client Name: SOIL / WATER AIR PROTECTION ENTERPRISE				Telephone No. / Fax No.: (310) 434-0110 / (310) 434-0011																
Project Manager: PAUL ROSENFELD, PH.D.				REQUESTED TESTS / ANALYSES																
Address: 1640 FIFTH STREET, SUITE 204, SANTA MONICA, CA 90401																				
Project Name and Location: BRIDGETON SANITARY LANDFILL AIR QUALITY ASSESSMENT				Special Instructions / Conditions of Receipt																
Sampled By: <i>Paul Rosenfeld</i>		Sampler's Signature: <i>Paul Rosenfeld</i>																		
LAB ID	SAMPLE ID NUMBER	Type	Date			Time	VOCS - EPA TO-15	Reduced Sulfur Compounds - ASTM D5504	Aldehydes - EPA TO-11A	Carboxylic Acids - Tube GC-MS	HCL - NIOSH 7903	Ammonia - OSHA ID-188	SO2 - OSHA ID-200	HCN - NIOSH 6010	Amines - NIOSH 2010M	Fixed Gases - EPA 3C	PAHs / Dioxins EPA TO-13A / 9A	Mercury - NIOSH 6009	Odor Evaluation	
62852	BZ-2 - Boulder	DMRH TUBE	5/8/12			13:22	X									X				
62853	-ACIDS					13:22				X										
62854	-HCL					13:24				X										
62855	-AMMONIA					13:20					X									
62856	-SO2					13:22						X								
62857	-HCN					13:29							X							
62858	-AMINES					13:31								X						
62859	-MERCURY					13:28												X		
62860																				
Requested Turnaround Time: Standard turn-around for all analyses. If possible deliver report within 2 weeks.				QC Requirements: Provide Level IV QC Package for all Analyses.																
Relinquished By: <i>Paul Rosenfeld</i>		Date: 5/8/12		Time: 10:00		Received By: <i>Paul Rosenfeld</i>		Date: 5/8/12		Time: 10:00		Received By: <i>Paul Rosenfeld</i>		Date: 5/8/12		Time: 0935				
Relinquished By:		Date:		Time:		Received By:		Date:		Time:		Received By:		Date:		Time:				

SOIL / WATER / AIR PROTECTION ENTERPRISE

-RETRN

# CHAIN OF CUSTODY RECORD / ANALYTICAL REQUEST FORM

Bridgeton Sanitary Landfill Air Quality Assessment

Client Name: SOIL / WATER AIR PROTECTION ENTERPRISE				Telephone No. / Fax No.: (310) 434-0110 / (310) 434-0011				Date: 5/7/13	Page 1 of 1									
Project Manager: PAUL ROSENFELD, PH.D.				<b>REQUESTED TESTS / ANALYSES</b>				Special Instructions / Conditions of Receipt										
Address: 1640 FIFTH STREET, SUITE 204, SANTA MONICA, CA 90401																		
Project Name and Location: BRIDGETON SANITARY LANDFILL AIR QUALITY ASSESSMENT																		
Sampled By: <i>Paul Rosenfeld</i>		Sampler Signature <i>Paul Rosenfeld</i>																
LAB ID	SAMPLE ID NUMBER	Type	Date	Time	VOCS - EPA TO-15	Reduced Sulfur Compounds - ASTM D5504	Aldehydes - EPA TO-11A	Carboxylic Acids - Tube GC-MS	HCL - NIOSH 7903	Ammonia - OSHA ID-188	SO2 - OSHA ID-200	HCN - NIOSH 6010	Amines - NIOSH 2010M	Fixed Gases - EPA 3C	PAHs / Dioxins EPA TO-13A / 9A	Mercury - NIOSH 6009	Odor Evaluation	
Vo: 2	U-1 - Canister	Canister	5/7/13	11:17	X	X												
62862	- DNPH	TOPE		12:17														
62863	- ACIDS			12:46			X											
62864	- HCL			12:49				X										
62865	- AMMONIA			12:54						X								
62866	- SO2			12:51							X							
62867	- HCN			12:52								X						
62868	- AMINES			12:53									X					
62869	- MERCURY			12:50												X		
62871	U-1B - Canister	Can			X	X												
Requested Turnaround Time: Standard turn-around for all analyses. If possible deliver report within 2 weeks.				QC Requirements: Provide Level IV QC Package for all Analyses.														
Relinquished By: <i>Paul Rosenfeld</i>		Date: 5/6/13		Time: 10:00		Received By:		Date:		Time:		Received By: <i>Paul</i>		Date: 5/6/13		Time: 0935		
Relinquished By:		Date:		Time:		Received By:		Date:		Time:		Received By:		Date:		Time:		
SOIL / WATER / AIR PROTECTION ENTERPRISE																		

- FedEx

# CHAIN OF CUSTODY RECORD / ANALYTICAL REQUEST FORM

Bridgeton Sanitary Landfill Air Quality Assessment

Client Name: SOIL / WATER AIR PROTECTION ENTERPRISE  
 Project Manager: PAUL ROSENFELD, PH.D.  
 Address: 1640 FIFTH STREET, SUITE 204, SANTA MONICA, CA 90401  
 Project Name and Location: BRIDGETON SANITARY LANDFILL AIR QUALITY ASSESSMENT

Telephone No. / Fax No.: (310) 434-0110 / (310) 434-0011  
**REQUESTED TESTS / ANALYSES**

Date: 5/9/13 Page 1 of 1

Sampled By: Paul Rosenfeld  
 Sampler Signature: Paul Rosenfeld

LAB ID	SAMPLE ID NUMBER	Type	Date	Time	VOCS - EPA TO-15	Reduced Sulfur Compounds - ASTM D5504	Aldehydes - EPA TO-11A	Carboxylic Acids - Tube GC-MS	HCL - NIOSH 7903	Ammonia - OSHA ID-188	SO2 - OSHA ID-200	HCN - NIOSH 6010	Amines - NIOSH 2010M	Fixed Gases - EPA 3C	PAHs / Dioxins EPA TO-13A / 9A	Mercury - NIOSH 6009	Odor Evaluation
62870	U-2-Canister	Canister	5/7/13	13:25	X									X			
62871	-DMPH	TYPE		13:17		X											
62872	-ACIDIS			13:09		X											
62873	-HCL			13:14			X										
62874	-AMMONIA			13:18				X									
62875	-SO2			13:13					X								
62876	-HCN			13:15						X							
62877	-AMINES			13:10							X						
62878	-MERCURY			13:12								X					

Special Instructions / Conditions of Receipt

Requested Turnaround Time: Standard turn-around for all analyses. If possible deliver report within 2 weeks.

QC Requirements: Provide Level IV QC Package for all Analyses.

Relinquished By: <i>Paul Rosenfeld</i>	Date: 5/6/13	Time: 18:00	Received By: <i>Paul Rosenfeld</i>	Date: 5/9/13	Time: 09:35
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

SOIL / WATER / AIR PROTECTION ENTERPRISE

- FENDIX

# CHAIN OF CUSTODY RECORD / ANALYTICAL REQUEST FORM

Bridgeton Sanitary Landfill Air Quality Assessment

Client Name: SOIL / WATER AIR PROTECTION ENTERPRISE  
 Telephone No. / Fax No.: (310) 434-0110 / (310) 434-0011  
 Project Manager: PAUL ROSENFELD, PH.D.  
 Address: 1640 FIFTH STREET, SUITE 204, SANTA MONICA, CA 90401  
 Project Name and Location: BRIDGETON SANITARY LANDFILL AIR QUALITY ASSESSMENT

Requested Tests / Analyses: VOCs - EPA TO-15, Reduced Sulfur Compounds - ASTM D5504, Aldehydes - EPA TO-11A, Carboxylic Acids - Tube GC-MS, HCL - NIOSH 7903, Ammonia - OSHA ID-188, SO2 - OSHA ID-200, HCN - NIOSH 6010, Amines - NIOSH 2010M, Fixed Gases - EPA 3C, PAHs / Dioxins EPA TO-13A / 9A, Mercury - NIOSH 6009, Odor Evaluation

Sampled By: Paul Rosenfeld  
 Sample Signature: Paul Rosenfeld  
 Date: 5/8/13  
 Page 1 of 1

LAB ID	SAMPLE ID NUMBER	Type	Date	Time	VOCs - EPA TO-15	Reduced Sulfur Compounds - ASTM D5504	Aldehydes - EPA TO-11A	Carboxylic Acids - Tube GC-MS	HCL - NIOSH 7903	Ammonia - OSHA ID-188	SO2 - OSHA ID-200	HCN - NIOSH 6010	Amines - NIOSH 2010M	Fixed Gases - EPA 3C	PAHs / Dioxins EPA TO-13A / 9A	Mercury - NIOSH 6009	Odor Evaluation
62879	03-Camster	CAN	5/8/13	12:14	X	X								X			
62880	-DAPT	TUBE		12:02		X											
62881	-ACI05			12:06			X										
62882	-HCL			12:09				X									
62883	-AMMONIA			12:07					X								
62884	-SO2			12:11						X							
62885	-HCN			12:12							X						
62886	-AMINES			12:05								X					
62887	-Mercury			11:22											X		

Requested Turnaround Time: Standard turn-around for all analyses. If possible deliver report within 2 weeks.  
 QC Requirements: Provide Level IV QC Package for all Analyses.

Relinquished By: [Signature] Date: 5/8/13 Time: 18:00  
 Received By: [Signature] Date: 5/9/13 Time: 0935

SOIL / WATER / AIR PROTECTION ENTERPRISE  
 - FERRY

# CHAIN OF CUSTODY RECORD / ANALYTICAL REQUEST FORM

Bridgeton Sanitary Landfill Air Quality Assessment

Client Name: SOIL / WATER AIR PROTECTION ENTERPRISE  
 Project Manager: PAUL ROSENFELD, PH.D.  
 Address: 1640 FIFTH STREET, SUITE 204, SANTA MONICA, CA 90401  
 Project Name and Location: BRIDGETON SANITARY LANDFILL AIR QUALITY ASSESSMENT  
 Telephone No. / Fax No.: (310) 434-0110 / (310) 434-0011  
 Date: 5/7/12 Page 1 of 1

## REQUESTED TESTS / ANALYSES

LAB ID	SAMPLE ID NUMBER	Type	Date	Time	VOCS - EPA TO-15	Reduced Sulfur Compounds - ASTM D5504	Aldehydes - EPA TO-11A	Carboxylic Acids - Tube GC-MS	HCL - NIOSH 7903	Ammonia - OSHA ID-188	SO2 - OSHA ID-200	HCN - NIOSH 6010	Amines - NIOSH 2010M	Fixed Gases - EPA 3C	PAHs / Dioxins EPA TO-13A / 9A	Mercury - NIOSH 6009	Odor Evaluation
62888	0-1 - Canister		5/7/12	11:57	X	X								X			
62889	- ANPH	TUBE		11:55			X										
62890	- ACIDS			11:54				X									
62891	- HCL			11:40					X								
62892	- AMMONIA			11:49						X							
62893	- SO2			11:48							X						
62894	- HCN			11:42								X					
62895	- AMINES			11:52									X				
62896	- MERCURY			11:43											X		

Requested Turnaround Time: Standard turn-around for all analyses. If possible deliver report within 2 weeks.  
 QC Requirements: Provide Level IV QC Package for all Analyses.

Relinquished By: [Signature] Date: 5/8/12 Time: 10:00  
 Received By: [Signature] Date: 5/7/12 Time: 0935

Special Instructions / Conditions of Receipt

SOIL / WATER / AIR PROTECTION ENTERPRISE  
 - PDEX

# CHAIN OF CUSTODY RECORD / ANALYTICAL REQUEST FORM

Bridgeton Sanitary Landfill Air Quality Assessment

Client Name: SOIL / WATER AIR PROTECTION ENTERPRISE		Telephone No. / Fax No.: (310) 434-0110 / (310) 434-0011																		
Project Manager: PAUL ROSENFELD, PH.D.		<b>REQUESTED TESTS / ANALYSES</b>																		
Address: 1640 FIFTH STREET, SUITE 204, SANTA MONICA, CA 90401																				
Project Name and Location: BRIDGETON SANITARY LANDFILL AIR QUALITY ASSESSMENT		Special Instructions / Conditions of Receipt																		
Sampled By: <i>Paul Rosenfeld</i>				Sampler's Signature: <i>Paul Rosenfeld</i>																
LAB ID	SAMPLE ID NUMBER			Type	Date	Time	VOCS - EPA TO-15	Reduced Sulfur Compounds - ASTM D5504	Aldehydes - EPA TO-11A	Carboxylic Acids - Tube GC-MS	HCL - NIOSH 7903	Ammonia - OSHA ID-188	SO2 - OSHA ID-200	HCN - NIOSH 6010	Amines - NIOSH 2010M	Fixed Gases - EPA 3C	PAHs / Dioxins EPA TO-13A / 9A	Mercury - NIOSH 6009	Odor Evaluation	
62897	D-2 - Canister				04/27/13	12:22	X	X								X				
62898	- DNPH			TOBE		12:19			X											
62899	- Ac105					12:21			X											
62900	- HCL					12:12				X										
62901	- AMMONIA					12:17				X										
62902	- SO2					12:15					X									
62903	- HCN					12:16					X									
62904	- AMINES			12:08						X										
62905	- MERCURY			12:10											X					
Requested Turnaround Time: Standard turn-around for all analyses. If possible deliver report within 2 weeks.		QC Requirements: Provide Level IV QC Package for all Analyses.		Date: 5/7/13		Page 1 of 1														
Relinquished By: <i>Paul Rosenfeld</i>		Date: 3/6/13		Time: 18:00		Received By: <i>Paul Rosenfeld</i>		Date: 3/9/13		Time: 0935										
Relinquished By:		Date:		Time:		Received By:		Date:		Time:										
Relinquished By:		Date:		Time:		Received By:		Date:		Time:										

SOIL / WATER / AIR PROTECTION ENTERPRISE

- FOLDER



# CHAIN OF CUSTODY RECORD / ANALYTICAL REQUEST FORM

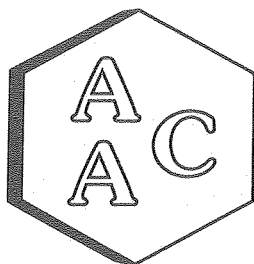
Bridgeton Sanitary Landfill Air Quality Assessment

Client Name: SOIL / WATER AIR PROTECTION ENTERPRISE		Telephone No. / Fax No.: (310) 434-0110 / (310) 434-0011				
Project Manager: PAUL ROSENFELD, PH.D.		<b>REQUESTED TESTS / ANALYSES</b>				
Address: 1640 FIFTH STREET, SUITE 204, SANTA MONICA, CA 90401						
Project Name and Location: BRIDGETON SANITARY LANDFILL AIR QUALITY ASSESSMENT		<b>Special Instructions / Conditions of Receipt</b>				
Sampled By: <i>Paul Rosenfeld</i>						
Sampler Signature: <i>Paul Rosenfeld</i>						
LAB ID	SAMPLE ID NUMBER			Type	Date	Time
62906	D-3-Rosester			MAN	5/8/13	1:00
62907	- DMPH					1:17
62908	- AKIDS					1:58
62909	- HCL					1:51
62910	- AMMONIA					1:55
62911	- SO2					1:57
62912	- HCN			1:50		
62913	- AMINES			1:54		
62914	- MERCURY			1:48		
Requested Turnaround Time: Standard turn-around for all analyses. If possible deliver report within 2 weeks.		QC Requirements: Provide Level IV QC Package for all Analyses.				
Relinquished By: <i>Paul Rosenfeld</i>	Date: 5/8/13	Time: 1:00	Received By: <i>[Signature]</i>	Date: 5/8/13	Time: 1:00	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By: <i>[Signature]</i>	Date: 5/8/13	Time: 1:35	

SOIL / WATER / AIR PROTECTION ENTERPRISE

- PERRY

# Results



# Atmospheric Analysis & Consulting, Inc.

## Laboratory Analysis Report

Anion Analysis by IC

Client: : Swape  
Client Project Name : Bridgeton Sanitary Landfill Air Quality Assessment  
AAC Project No. : 130559  
Analyst : EG/HP  
Units : ppbv

Sampling Date : 05/07-8/2013  
Receiving Date : 05/09/2013  
Analysis Date : 05/13/2013  
Reporting Date : 05/14/2013

### Hydrochloric Acid by NIOSH Method 7903

Client Sample ID	AAC Sample ID	Sample Volume (mL)	Analysis DF	Hydrochloric Acid Concentration (ppbv)	Sample Reporting Limit (ppbv)
Trip Blank-HCL	130559-62845	10	1	<SRL	6.90
BZ-2-HCL	130559-62855	10	1	<SRL	6.05
U1-HCL	130559-62864	10	1	<SRL	6.39
U2-HCL	130559-62873	10	1	<SRL	5.70
U3-HCL	130559-62882	10	1	<SRL	6.10
D1-HCL	130559-62891	10	1	<SRL	5.80
D2-HCL	130559-62900	10	1	<SRL	7.32
D3-HCL	130559-62909	10	1	<SRL	9.00

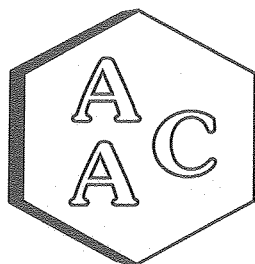
<SRL-compound was analyzed for but not detected at or above the SRL (Sample Reporting Limit)

All sample values were blank corrected using the Trip Blank value for HCL

The Trip Blank value was calculated using a sample volume of 100 Liters

Marcus Hueppe  
Laboratory Director





# Atmospheric Analysis & Consulting, Inc.

## Laboratory Analysis Report

Anion Analysis by IC

Client: : Swape  
Client Project Name: : Bridgeton Sanitary Landfill Air Quality Assessment  
AAC Project No. : 130559  
Analyst : EG/HP  
Units : ug/sample and ug/m<sup>3</sup>

Sampling Date : 05/07-8/2013  
Receiving Date : 05/09/2013  
Analysis Date : 05/13/2013  
Reporting Date : 05/14/2013

### Hydrochloric Acid by NIOSH Method 7903

Client Sample ID	AAC Sample ID	Sample Volume (mL)	Analysis DF	Hydrochloric Acid Concentration (ug/sample)	Sample Reporting Limit (ug/sample)	Hydrochloric Acid Concentration (ug/m <sup>3</sup> )	Sample Reporting Limit (ug/m <sup>3</sup> )
Trip Blank-HCL	130559-62845	10	1	<SRL	1.03	<SRL	10.3
BZ-2-HCL	130559-62855	10	1	<SRL	1.03	<SRL	9.02
U1-HCL	130559-62864	10	1	<SRL	1.03	<SRL	9.52
U2-HCL	130559-62873	10	1	<SRL	1.03	<SRL	8.50
U3-HCL	130559-62882	10	1	<SRL	1.03	<SRL	9.10
D1-HCL	130559-62891	10	1	<SRL	1.03	<SRL	8.64
D2-HCL	130559-62900	10	1	<SRL	1.03	<SRL	10.9
D3-HCL	130559-62909	10	1	<SRL	1.03	<SRL	13.4

<SRL-compound was analyzed for but not detected at or above the SRL (Sample Reporting Limit)

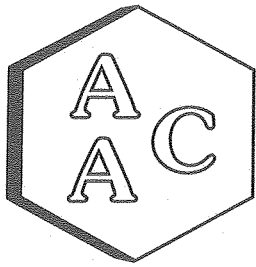
All sample values were blank corrected using the Trip Blank value for HCL

The Trip Blank value was calculated using a sample volume of 100 Liters

Marcus Hueppe  
Laboratory Director



# **QA/QC Summary**



# Atmospheric Analysis & Consulting, Inc.

## Quality Control/Quality Assurance Report OSHA Method ID-200

Analysis Date : 05/13/2013  
Analyst : EG/HP

Instrument ID : DIONEX IC #1

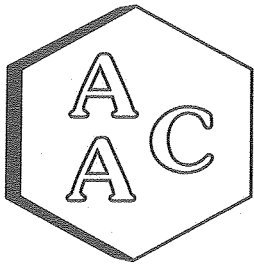
### Calibration Verification of the 04/25/2013 Calibration

Sample ID	Analyte	Theoretical Concentration (ug/mL)	Practical Concentration (ug/mL)	Percent Recovery (%)*
Opening CV	Sulfate	25.0	24.1	96.3
Continuing CV	Sulfate	25.0	24.1	96.4
Continuing CV	Sulfate	25.0	24.2	96.8
Closing CV	Sulfate	25.0	24.3	97.2
Second Source	Sulfate	25.0	24.1	96.4

\* Must be 85-115%

  
\_\_\_\_\_  
Marcus Hueppe  
Laboratory Director





# Atmospheric Analysis & Consulting, Inc.

## QUALITY CONTROL/ASSURANCE REPORT

*OSHA Method ID-200*

Analysis Date : 05/13/2013  
 Analyst : EG/HP

Instrument ID : DIONEX IC #1

*Method Blank Analysis*

Analyte	Concentration (ug/mL)	SRL (ug/mL)
Sulfate	0.000	0.100

*Laboratory Control Spike Analysis*

Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Lab Spike Concentration (ug/mL)	Duplicate Lab Spike Concentration (ug/mL)	Spike Recovery (%)**	Duplicate Spike Recovery (%)**	% RPD****
Sulfate	0.000	12.5	11.6	11.5	93.0	92.3	0.7

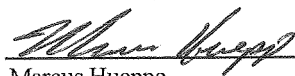
*Matrix Spike Analysis (Sample ID 130559-62847)*

Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Matrix Spike Concentration (ug/mL)	Duplicate Matrix Spike Concentration (ug/mL)	Spike Recovery (%)**	Duplicate Spike Recovery (%)**	% RPD****
Sulfate	0.000	12.5	11.5	11.5	91.6	92.2	0.6

*Duplicate Sample Analysis*

Sample ID	Analyte	Result (ug/mL)	Duplicate Result (ug/mL)	%RPD *	DF
130559-62845	Sulfate	0.190	0.190	0.0	1
130559-62864	Sulfate	0.250	0.240	4.1	1
130559-62847	Sulfate	0.000	0.000	NA	1

\* Must be <5%  
 \*\* Must be 85-115%  
 \*\*\* Must be 75-125%  
 \*\*\*\* Must be < 25%  
 SRL - Sample Reporting Limit

  
 \_\_\_\_\_  
 Marcus Hueppe  
 Laboratory Director

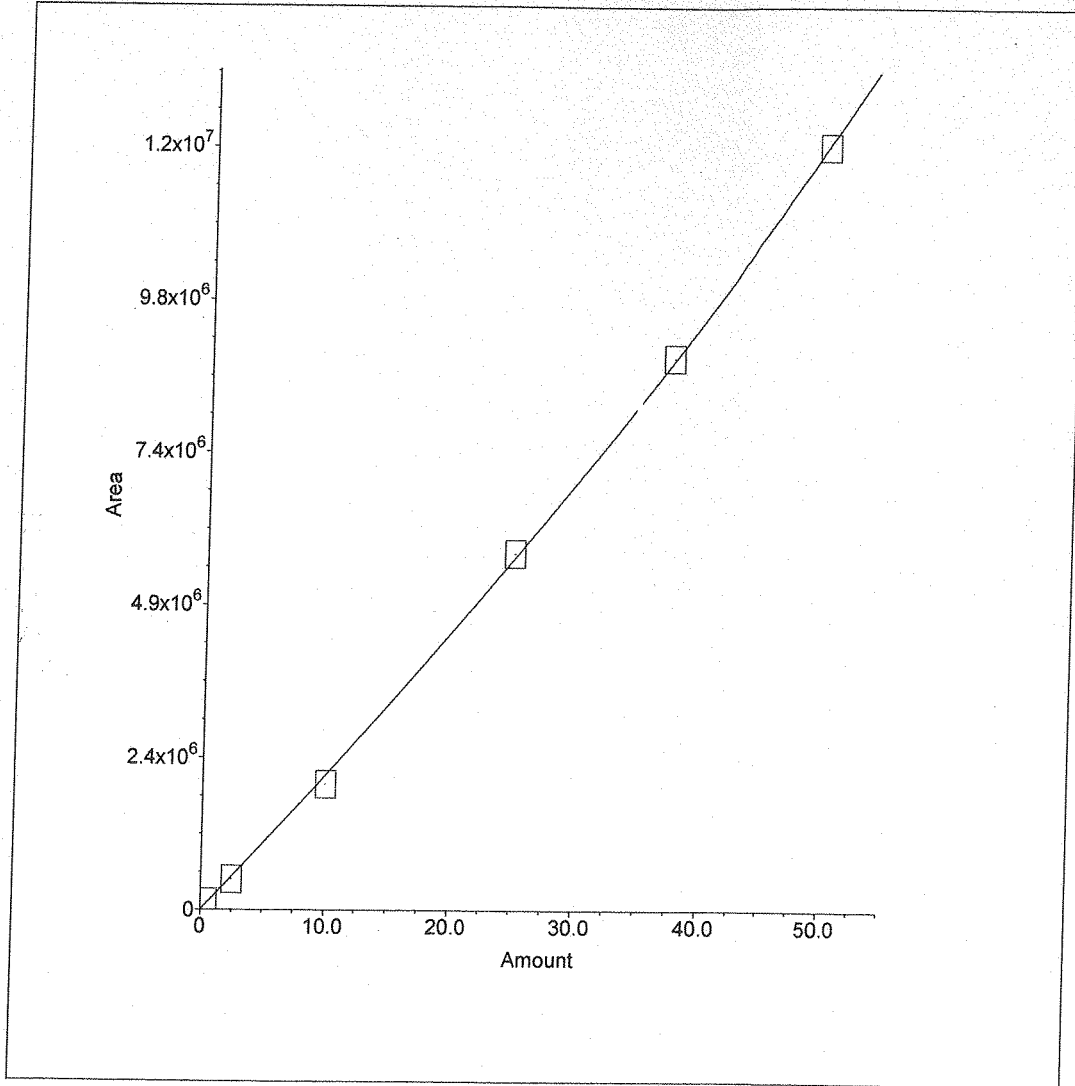


# Calibration Summary



2. Component:Chloride  
Standard:External Fit Type:Quadratic  
Origin:Force Calibration:Area  
 $r^2=0.999743$   
 $Amt=-5.263305e-014*Resp^2+$   
 $4.683164e-006*Resp+0$

Method:Chloride



# Raw Data

# Sample Analysis Report

Sample Name : DI Water Blank

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONSIA\_001.DXD

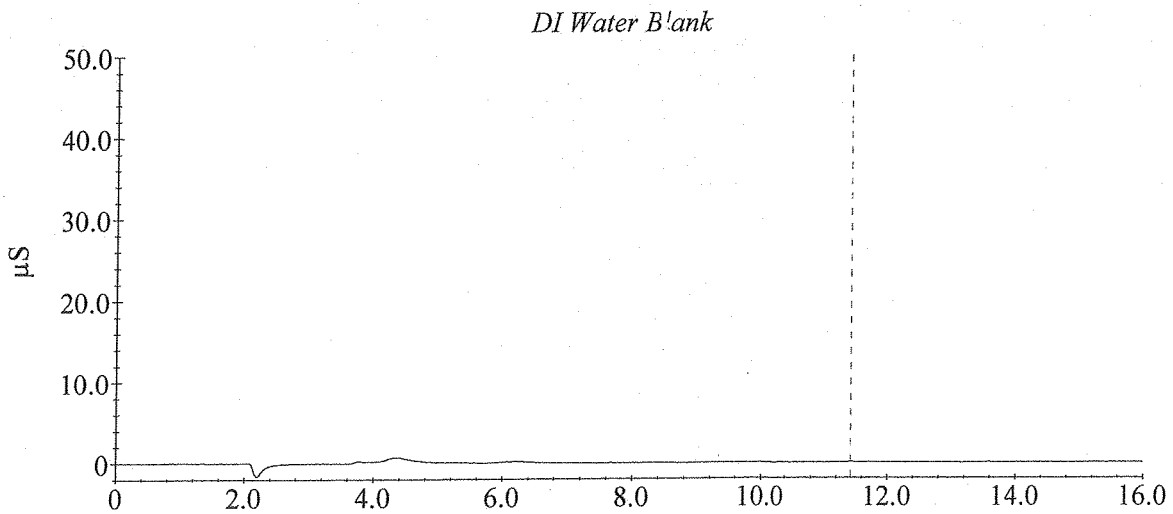
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 8:45:37 AM

System Operator : EG

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
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06  
CS1313

# Sample Analysis Report

Sample Name : CCV 25ug/mL SS0746x4

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_002.DXD

Method File Name : c:\peaknet\method\2013\anions-042513.met

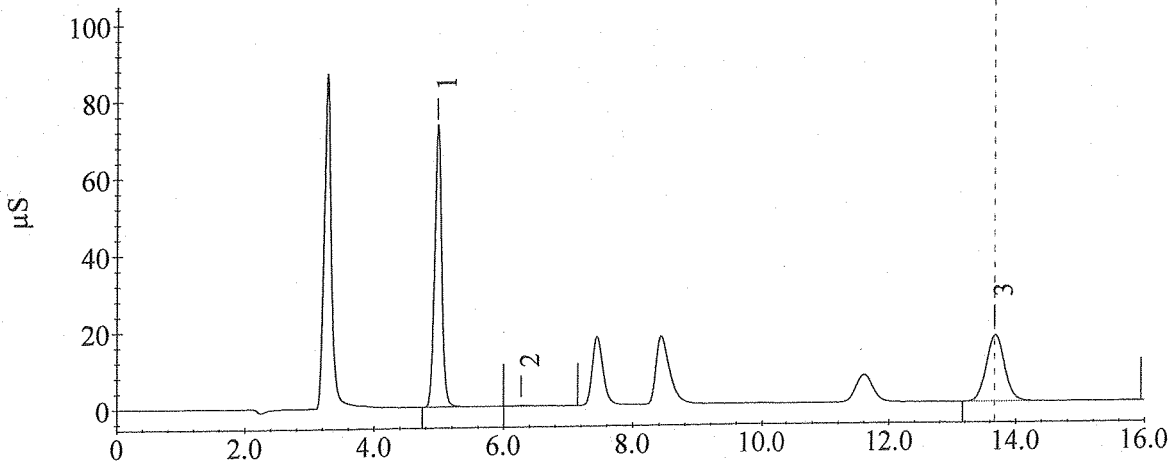
Date Time Collected : 5/13/2013 9:01:56 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.98	24.34	5543171	725247
2	Unknown 1	6.27	0.00	34066	1136
3	Sulfate	13.67	24.07	3456735	172175

CCV 25ug/mL SS0746x4



EG  
09/13/13

# Sample Analysis Report

Sample Name : SS 25ug/ml SS0664x4

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONSIA\_003.DXD

Method File Name : c:\peaknet\method\2013\anions-042513.met

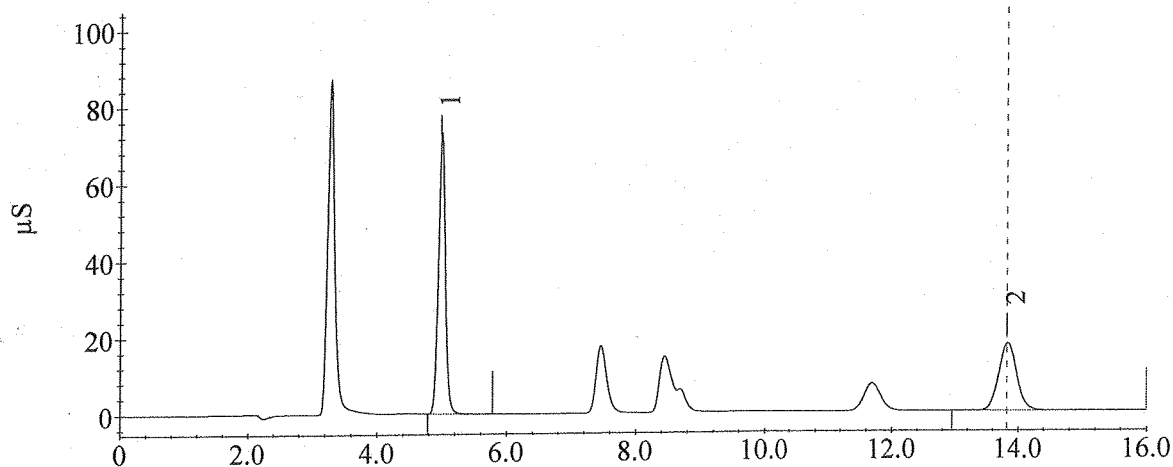
Date Time Collected : 5/13/2013 9:40:31 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.98	24.16	5497944	697597
2	Sulfate	13.82	24.11	3463446	174507

SS 25ug/ml SS0664x4



CC  
05/13/13

# Sample Analysis Report

Sample Name : Method Blank

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_004.DXD

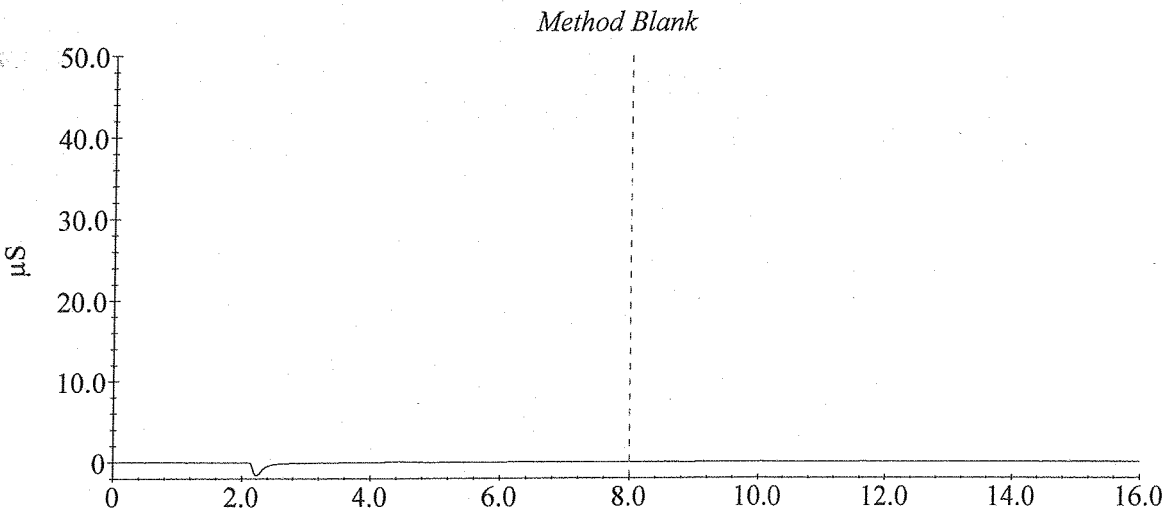
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 9:56:50 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
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06  
051313

# Sample Analysis Report

Sample Name : LCS 12.5ug/ml SS0746x8

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_005.DXD

Method File Name : c:\peaknet\method\2013\anions-042513.met

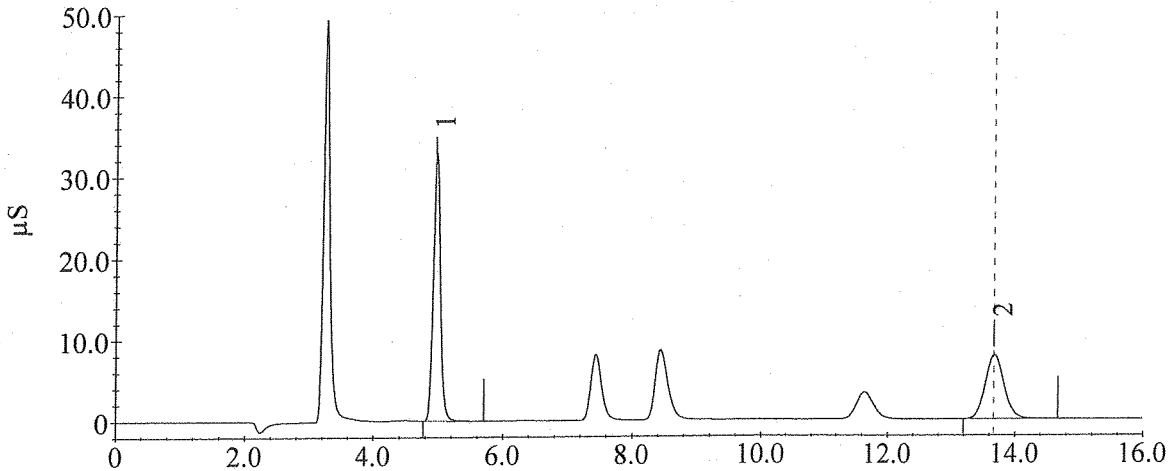
Date Time Collected : 5/13/2013 10:13:07 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.95	11.34	2490913	312346
2	Sulfate	13.67	11.62	1604801	78523

LCS 12.5ug/ml SS0746x8



# Sample Analysis Report

Sample Name : LCSD 12.5ug/ml SS0746x8

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_006.DXD

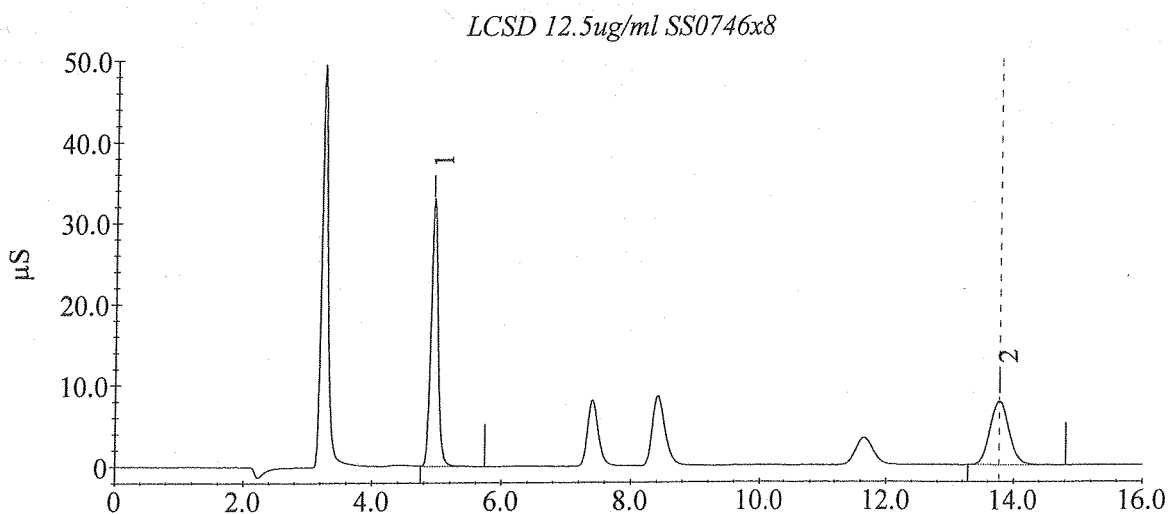
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 10:29:24 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.93	11.31	2484324	321213
2	Sulfate	13.77	11.54	1593166	77786



EG  
5/13/13



# Sample Analysis Report

Sample Name : MS 12.5 ug/ml (130559-62845)

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_007.DXD

Method File Name : c:\peaknet\method\2013\anions-042513.met

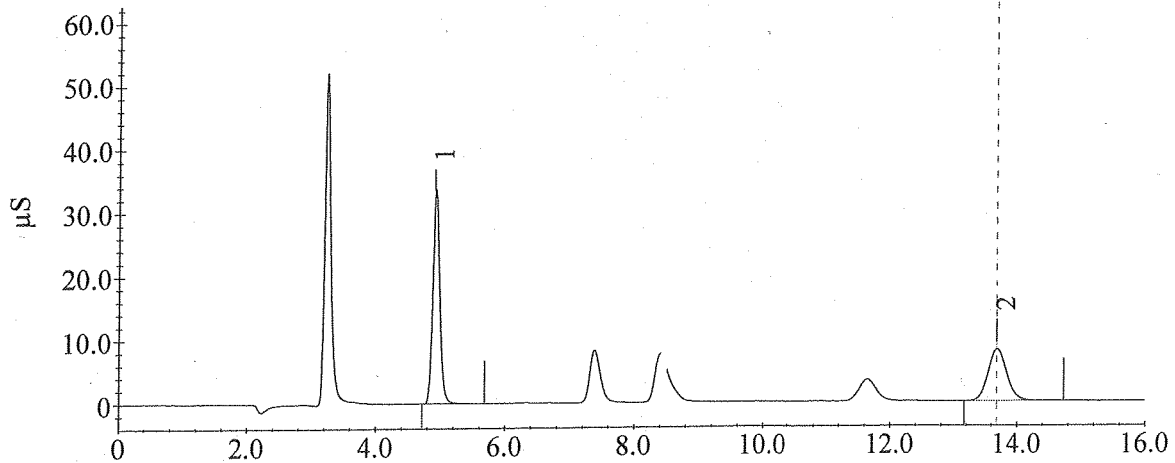
Date Time Collected : 5/13/2013 10:45:40 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.92	11.48	2523538	320175
2	Sulfate	13.68	11.85	1638135	81278

MS 12.5 ug/ml (130559-62845)



CC  
251313

# Sample Analysis Report

Sample Name : MSD 12.5 ug/ml (130559-62845)

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_008.DXD

Method File Name : c:\peaknet\method\2013\anions-042513.met

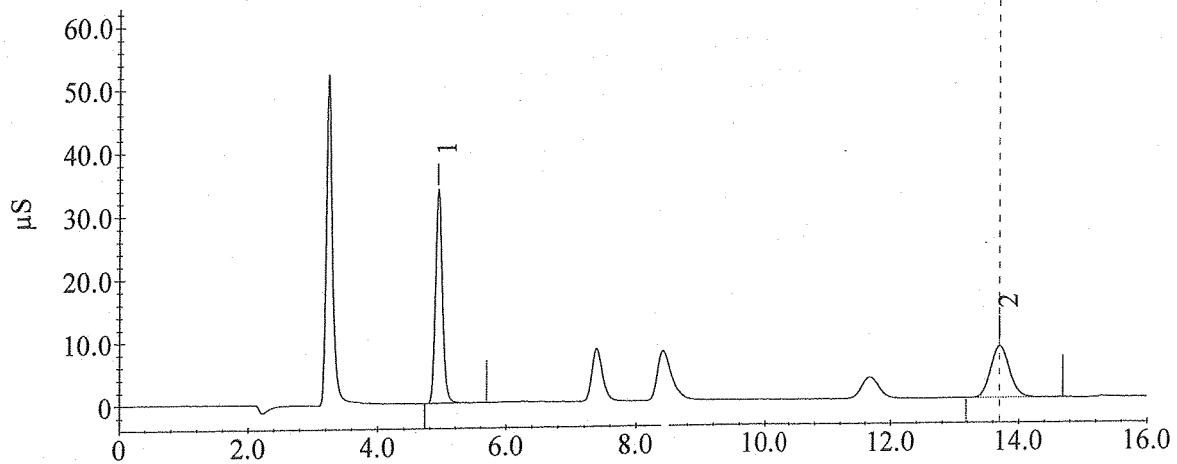
Date Time Collected : 5/13/2013 11:01:56 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.93	11.51	2530544	331109
2	Sulfate	13.70	11.92	1647838	81683

MSD 12.5 ug/ml (130559-62845)



# Sample Analysis Report

Sample Name : 130559-62845

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_009.DXD

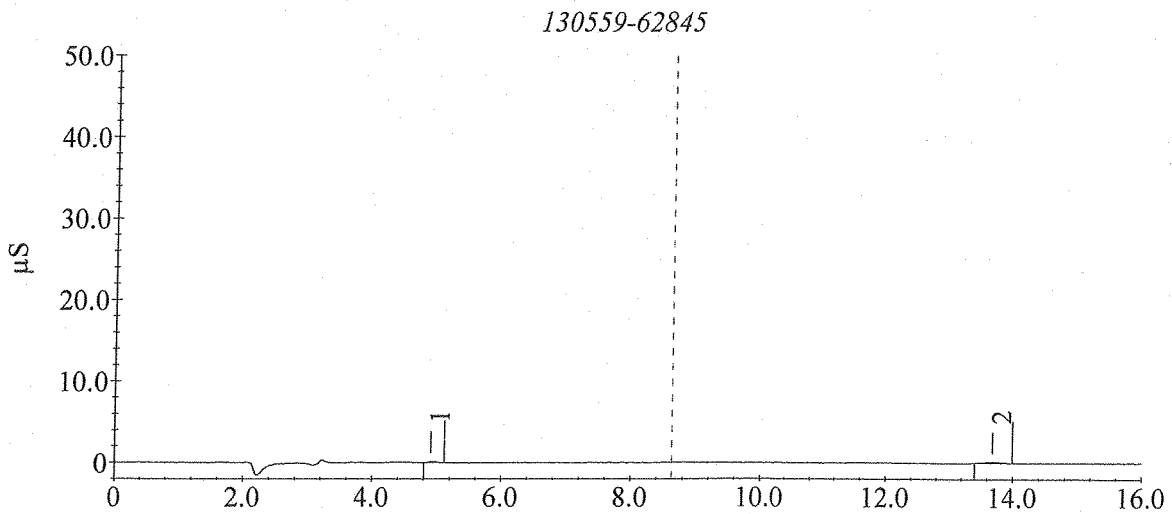
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 11:18:13 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.92	0.06	11952	1436
2	Sulfate	13.68	0.19	24850	1383



# Sample Analysis Report

Sample Name : 130559-62845 dup

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_010.DXD

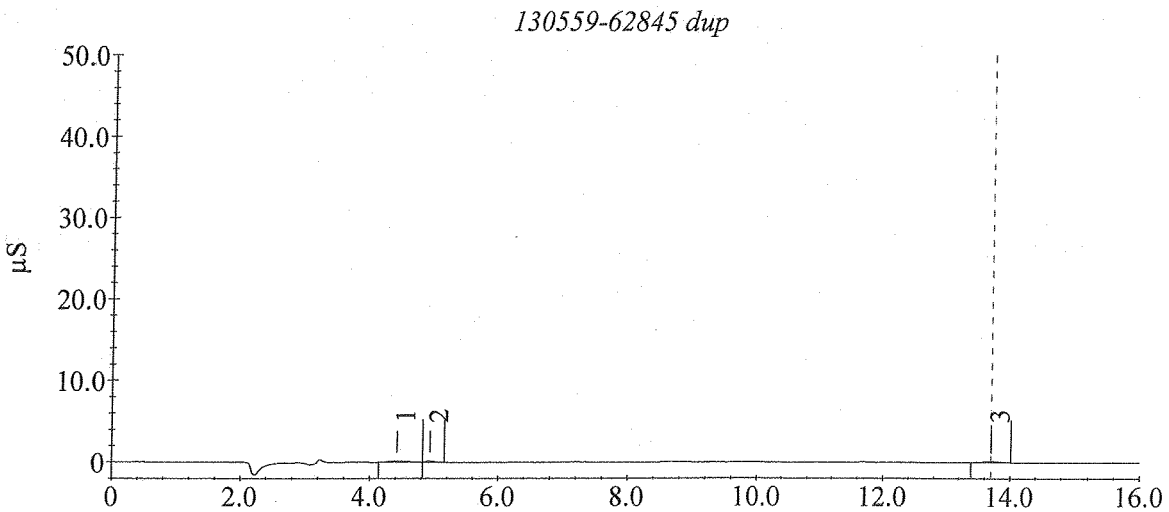
Method File Name : c:\peaknet\method\2013\anions-042513.mel

Date Time Collected : 5/13/2013 11:34:30 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Unknown 1	4.42	0.00	32028	1441
2	Chloride	4.93	0.06	12502	1487
3	Sulfate	13.70	0.19	25635	1394



HP  
05/13/13

# Sample Analysis Report

Sample Name : 130559-62855

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_011.DXD

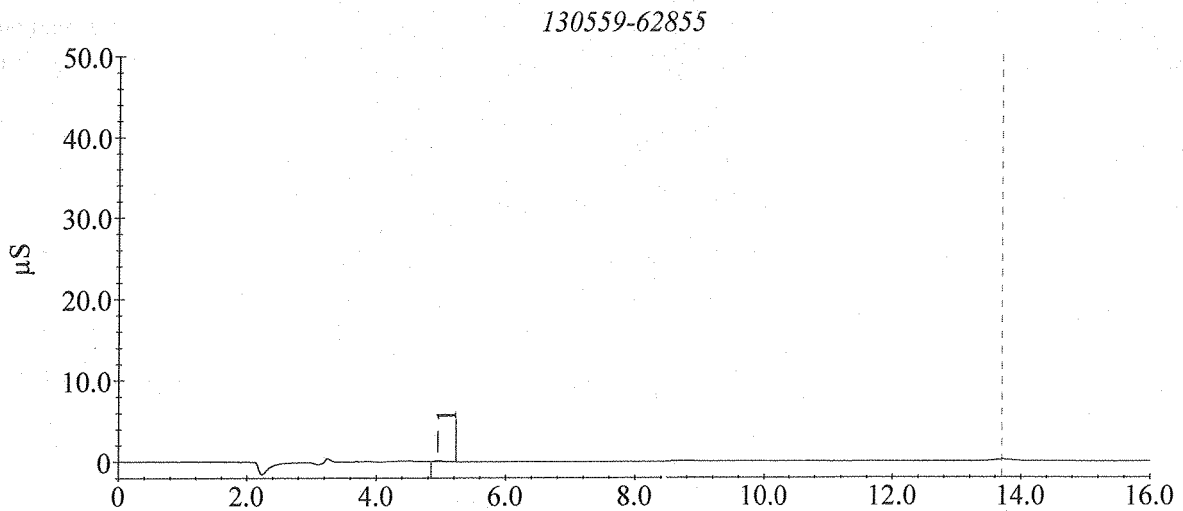
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 11:50:46 AM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.95	0.05	10620	1292



# Sample Analysis Report

Sample Name : DI Water Blank

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_012.DXD

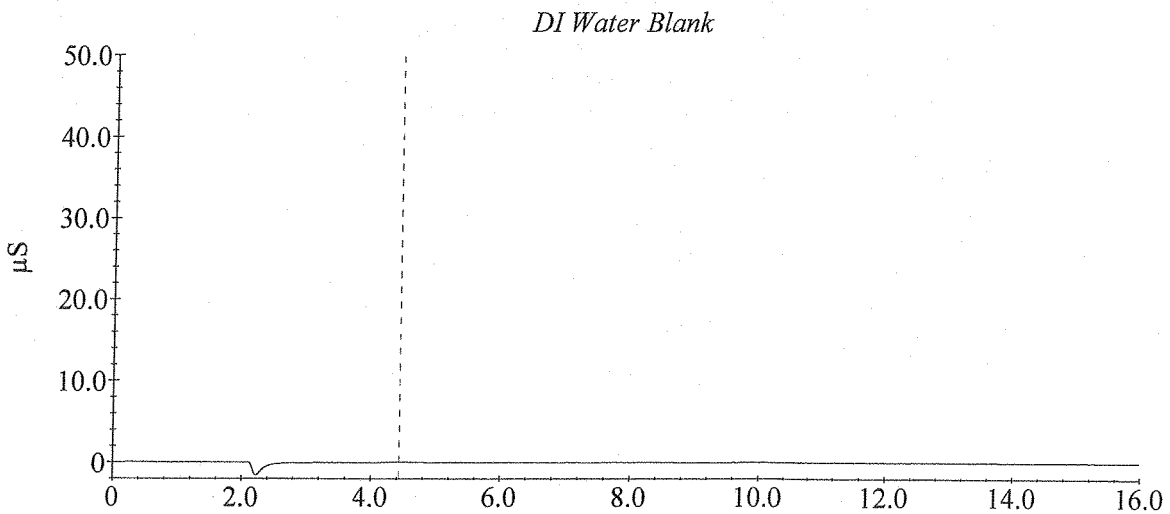
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 12:07:03 PM

System Operator : EG

## Peak Information . All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
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HP  
5/13/13

# Sample Analysis Report

Sample Name : CCV 25ug/mL SS0746x4

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_013.DXD

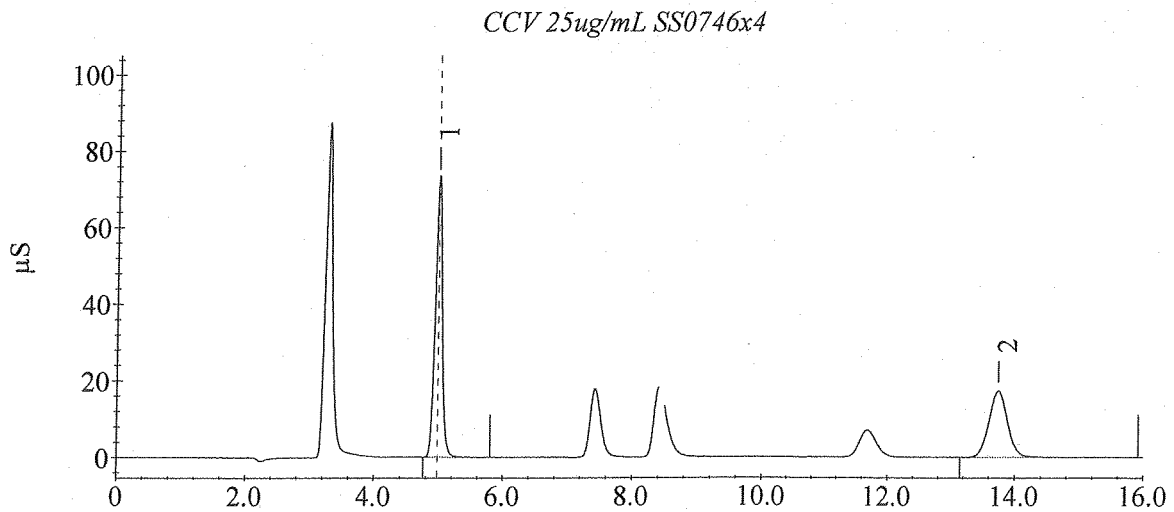
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 12:23:20 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.98	24.27	5525840	729988
2	Sulfate	13.73	24.09	3459115	172896



# Sample Analysis Report

Sample Name : 130559-62864

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_014.DXD

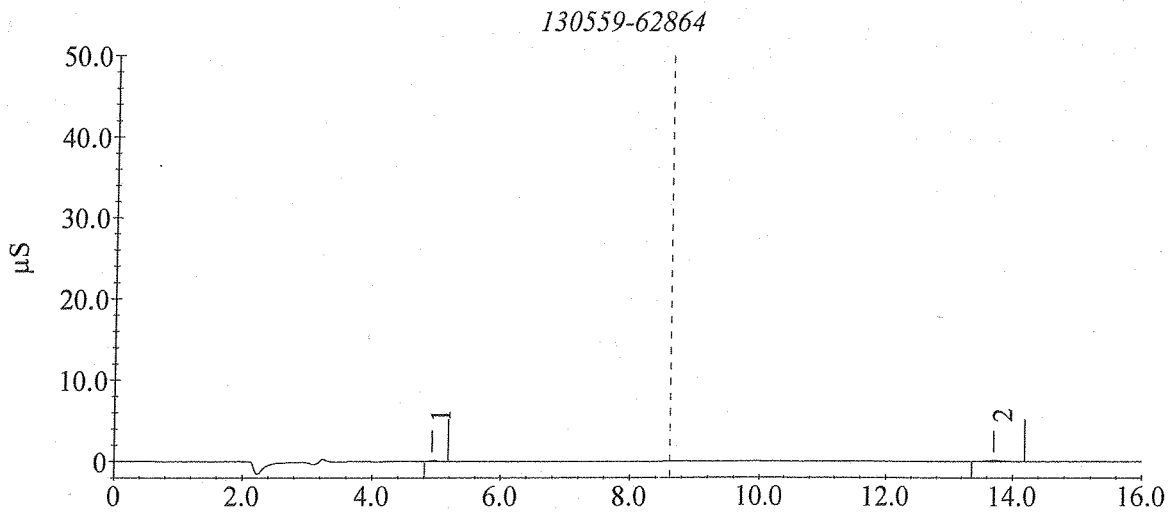
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 12:39:36 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.93	0.05	11618	1347
2	Sulfate	13.70	0.25	32875	1635





# Sample Analysis Report

Sample Name : 130559-62864 dup

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_015.DXD

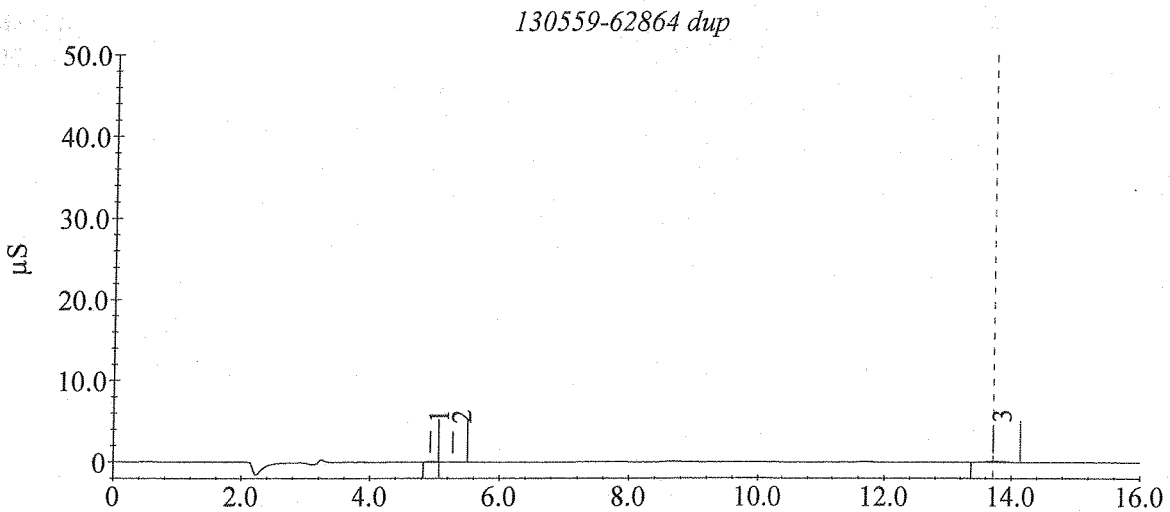
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 12:55:52 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.93	0.05	10064	1227
2	Unknown 1	5.28	0.00	5886	294
3	Sulfate	13.72	0.24	31659	1568



# Sample Analysis Report

Sample Name : 130559-62873

Data File Name : C:\PEAKNET\DATA\2013\051313ANION3\A\_016.DXD

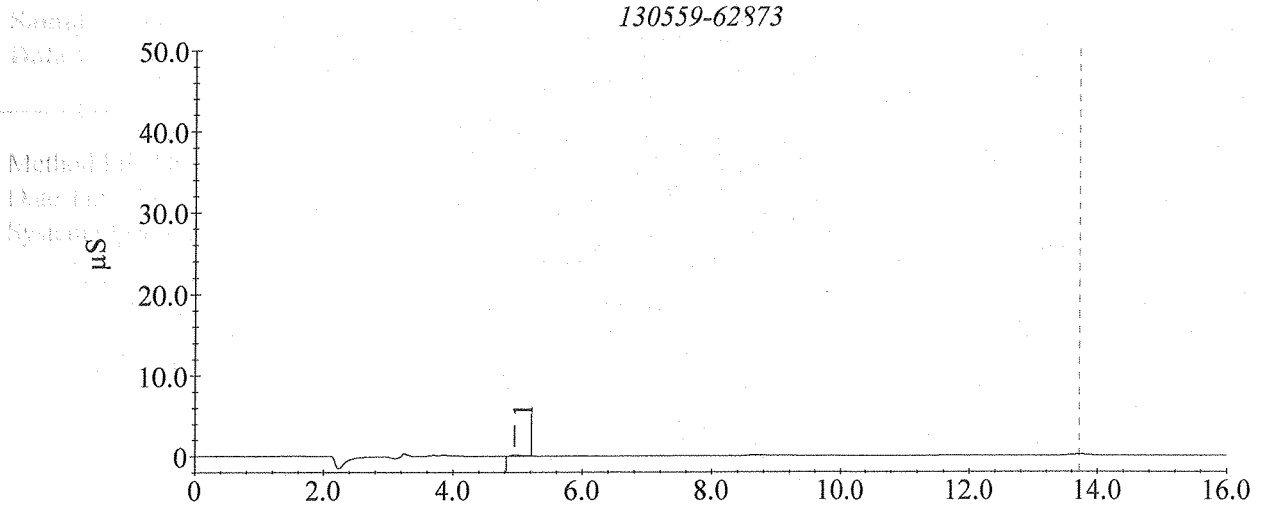
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 1:12:10 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.95	0.06	12885	1456



# Sample Analysis Report

Sample Name : 130559-62882

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_017.DXD

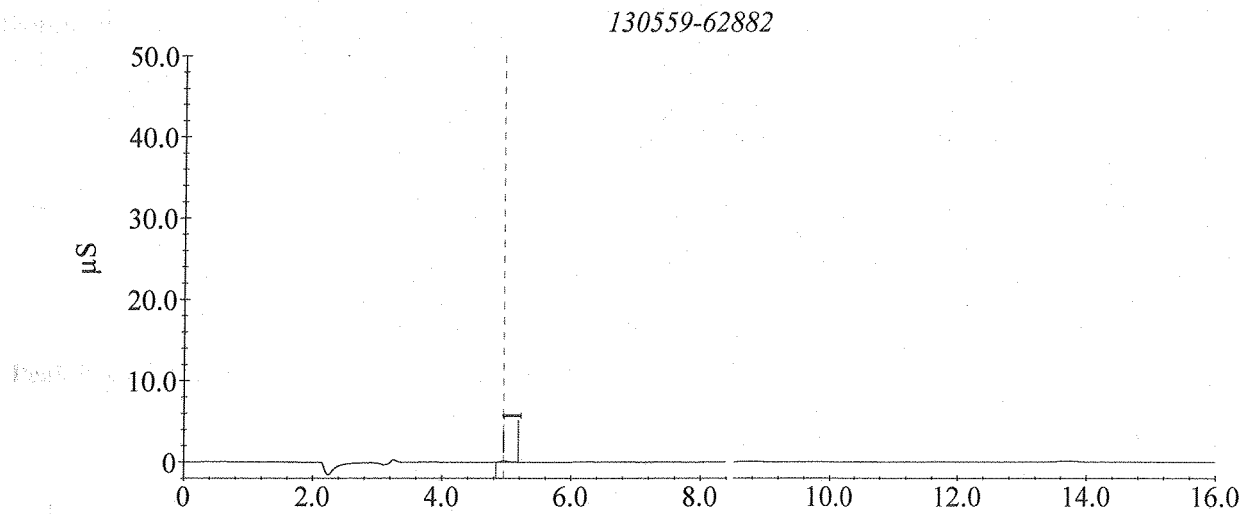
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 1:28:25 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.95	0.06	12090	1416



EG  
05/13/13

# Sample Analysis Report

Sample Name : 130559-62891

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_018.DXD

Method File Name : c:\peaknet\method\2013\anions-042513.met

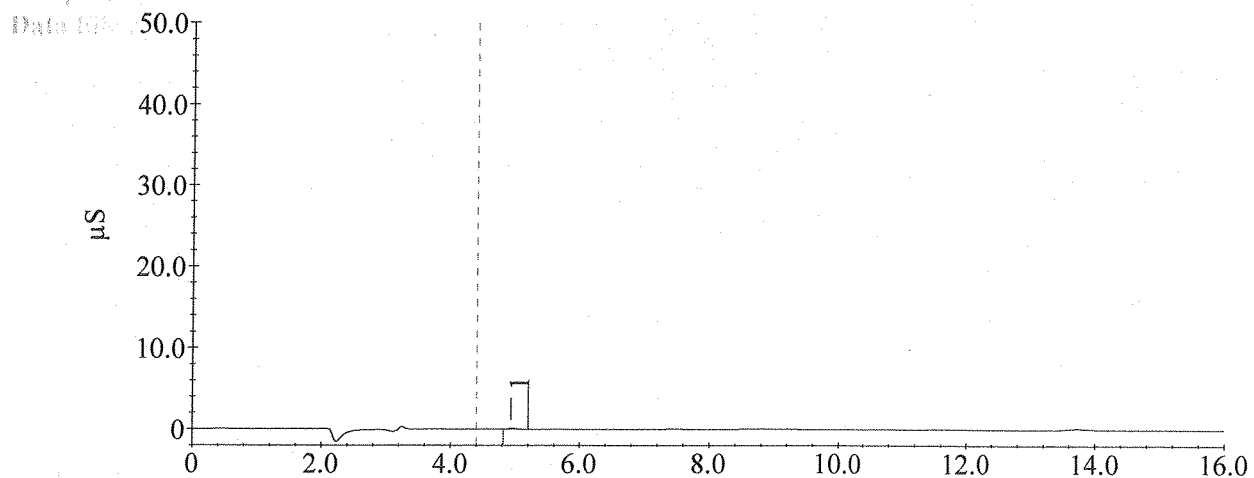
Date Time Collected : 5/13/2013 1:44:42 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.93	0.05	9804	1167

Sample ID: 130559-62891



EG  
05/13/13

# Sample Analysis Report

Sample Name : 130559-62900

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_019.DXD

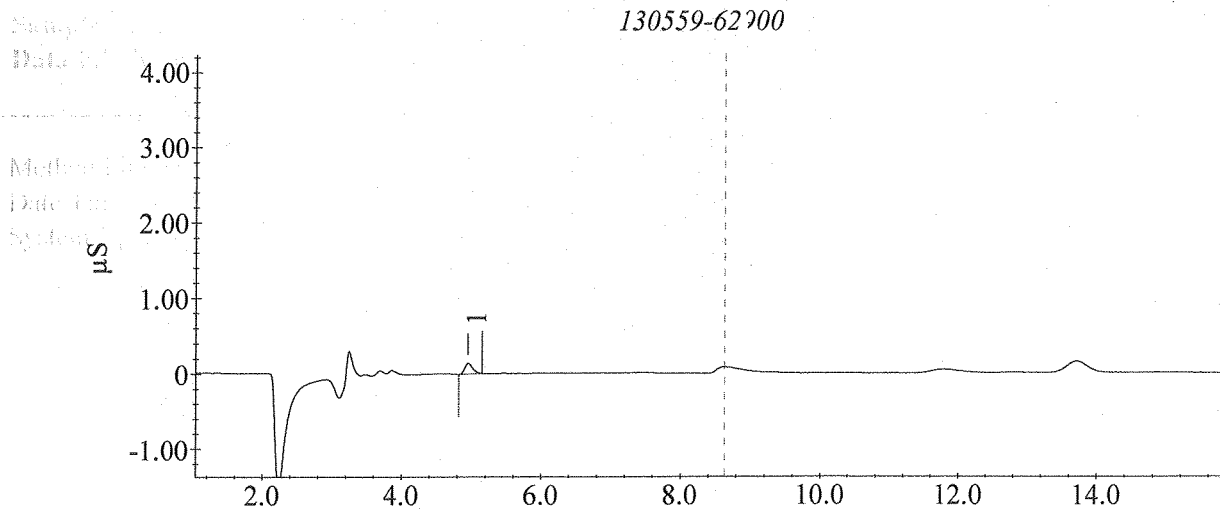
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 2:00:58 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.95	0.05	11337	1405



HO  
05/13/13

# Sample Analysis Report

Sample Name : 130559-62909

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_020.DXD

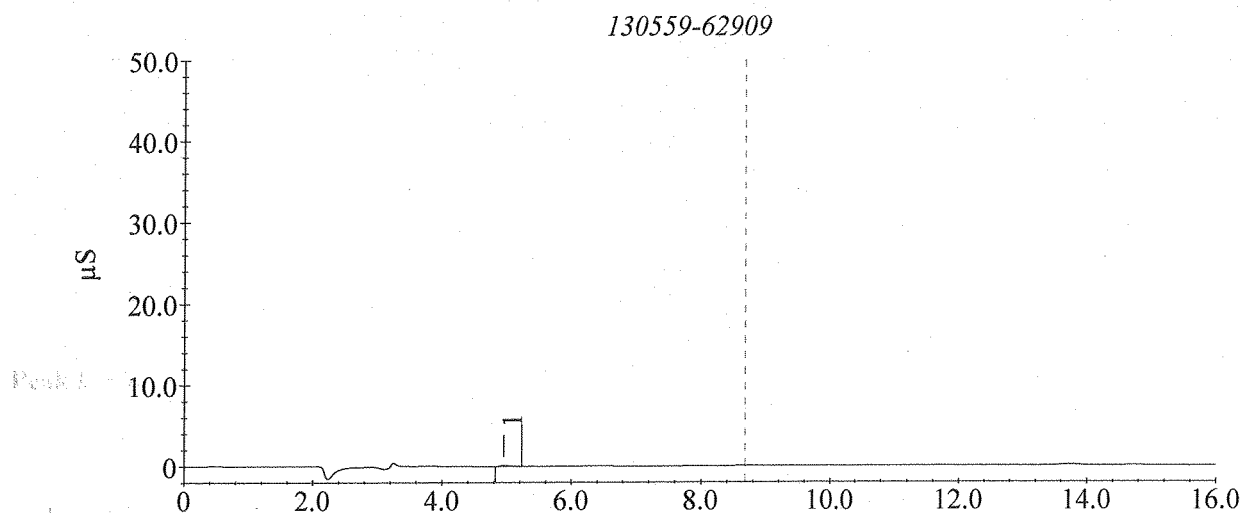
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 2:17:16 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.95	0.05	10708	1235



# Sample Analysis Report

Sample Name : DI Water Blank

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_023.DXD

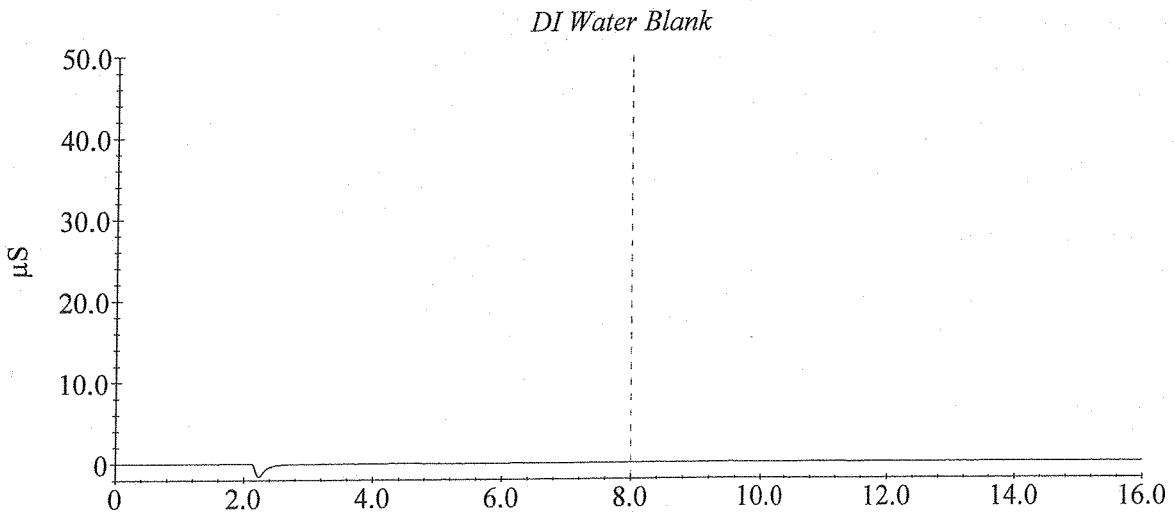
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 3:06:04 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
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HP  
5/13/13

# Sample Analysis Report

Sample Name : CCV 25ug/mL SS0746x4

Data File Name : C:\PEAKNET\DATA\2013\051313ANION 3\A\_024.DXD

Method File Name : c:\peaknet\method\2013\anions-042513.met

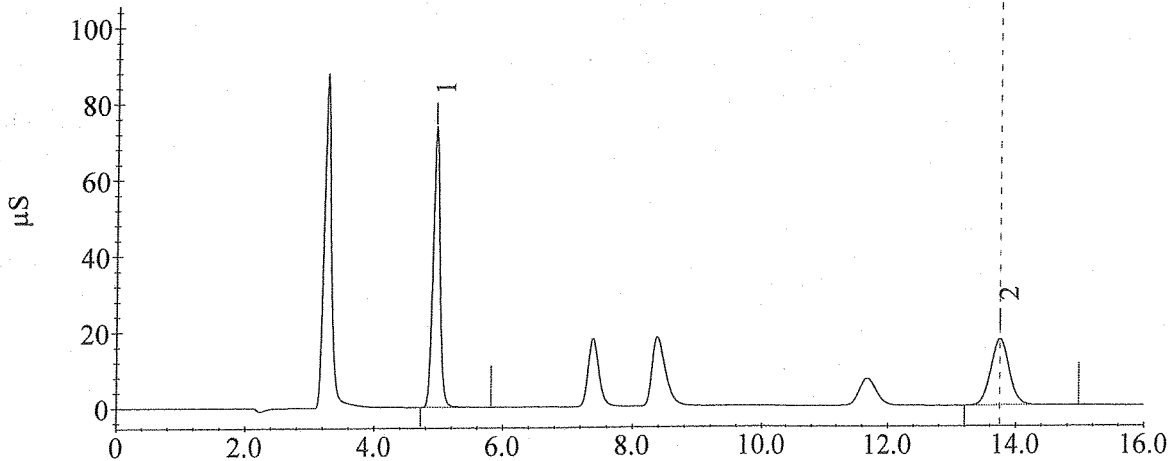
Date Time Collected : 5/13/2013 3:22:21 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.95	24.30	5532626	720987
2	Sulfate	13.75	24.20	3477130	174261

CCV 25ug/mL SS0746x4



EG  
05/13/13



# Sample Analysis Report

Sample Name : 130559-62847

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_025.DXD

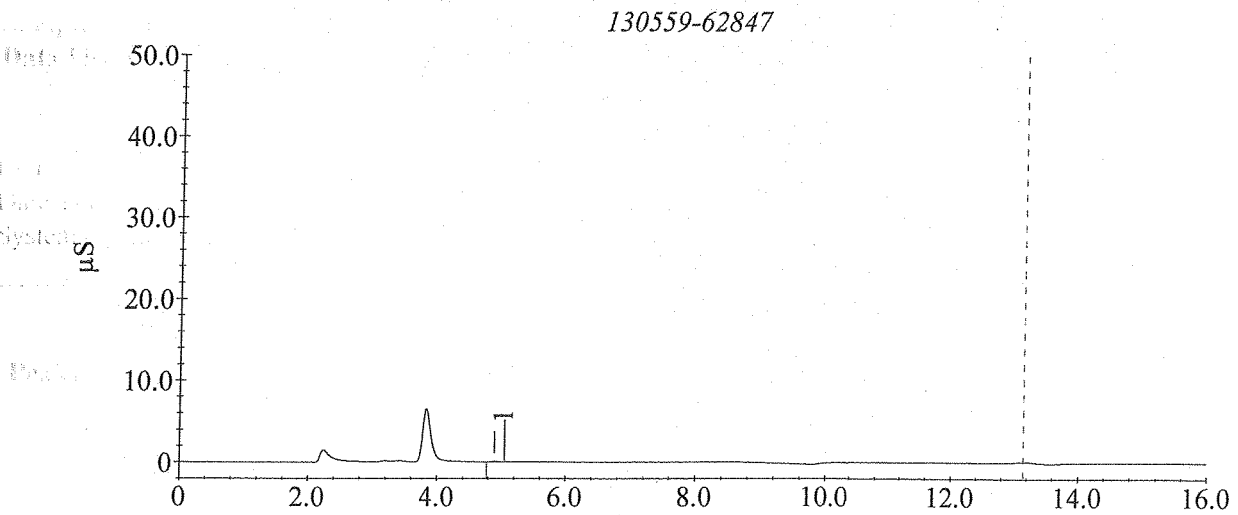
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 3:38:37 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.90	0.02	4944	621



# Sample Analysis Report

Sample Name : 130559-62847 dup

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_026.DXD

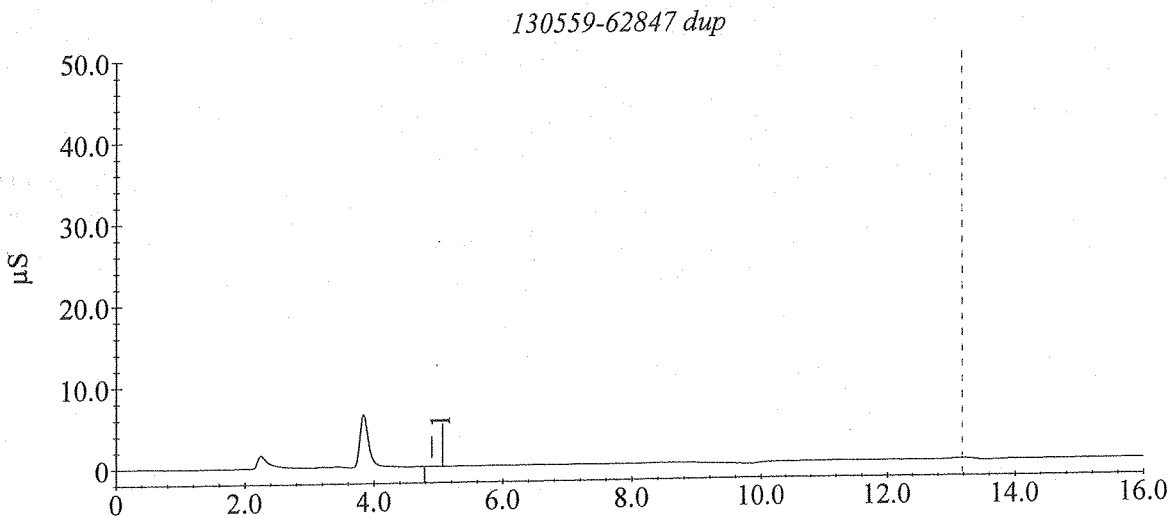
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 3:54:54 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.90	0.02	3825	480



EG  
5/13/13

# Sample Analysis Report

Sample Name : DI Water Blank

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_034.DXD

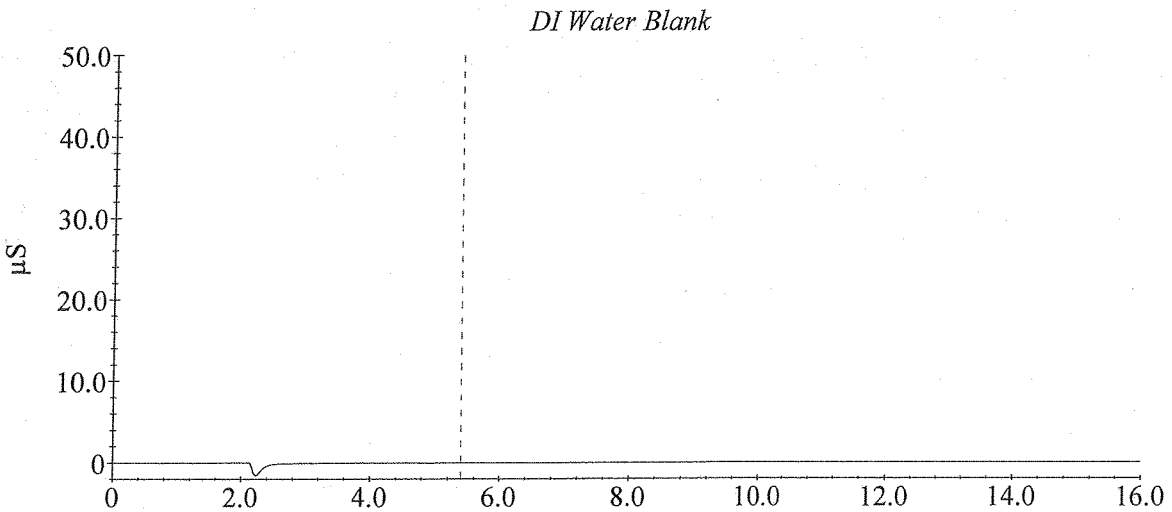
Method File Name : c:\peaknet\method\2013\anions-042513.met

Date Time Collected : 5/13/2013 6:05:06 PM

System Operator : EG

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
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EG  
5/14/13

# Sample Analysis Report

Sample Name : CCV 25ug/mL SS0746x4

Data File Name : C:\PEAKNET\DATA\2013\051313ANIONS\A\_035.DXD

Method File Name : c:\peaknet\method\2013\anions-042513.met

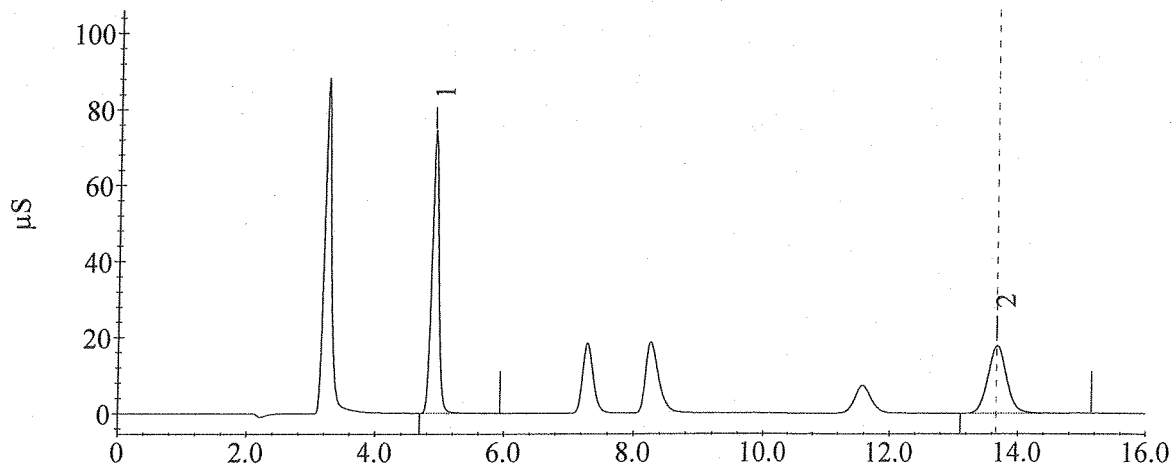
Date Time Collected : 5/13/2013 6:21:22 PM

System Operator : EG

## Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (ug/ml)	Peak Area	Peak Height
1	Chloride	4.90	24.27	5526492	726634
2	Sulfate	13.67	24.29	3490249	176111

CCV 25ug/mL SS0746x4



ES  
C 5/14/13

Line	Sample	Sample Type	Level	Method	Data File
1	DI Water Blank	Sample		antions-042513.met	2013\051313\antions_a_001.dxd
2	CCV 25ug/ml SS0746x4	Sample		antions-042513.met	2013\051313\antions_a_002.dxd
3	SS 25ug/ml SS0664x4	Sample		antions-042513.met	2013\051313\antions_a_003.dxd
4	Method Blank	Sample		antions-042513.met	2013\051313\antions_a_004.dxd
5	LCS 12.5ug/ml SS0746x8	Sample		antions-042513.met	2013\051313\antions_a_005.dxd
6	LCSD 12.5ug/ml SS0746x8	Sample		antions-042513.met	2013\051313\antions_a_006.dxd
7	MS 12.5 ug/ml (130559-62845)	Sample		antions-042513.met	2013\051313\antions_a_007.dxd
8	MSD 12.5 ug/ml (130559-62845)	Sample		antions-042513.met	2013\051313\antions_a_008.dxd
9	130559-62845	Sample		antions-042513.met	2013\051313\antions_a_008.dxd
10	130559-62845 dup	Sample		antions-042513.met	2013\051313\antions_a_010.dxd
11	130559-62855	Sample		antions-042513.met	2013\051313\antions_a_011.dxd
12	DI Water Blank	Sample		antions-042513.met	2013\051313\antions_a_012.dxd
13	CCV 25ug/ml SS0746x4	Sample		antions-042513.met	2013\051313\antions_a_013.dxd
14	130559-62864	Sample		antions-042513.met	2013\051313\antions_a_014.dxd
15	130559-62873	Sample		antions-042513.met	2013\051313\antions_a_015.dxd
16	130559-62882	Sample		antions-042513.met	2013\051313\antions_a_016.dxd
17	130559-62891	Sample		antions-042513.met	2013\051313\antions_a_017.dxd
18	130559-62900	Sample		antions-042513.met	2013\051313\antions_a_018.dxd
19	130559-62909	Sample		antions-042513.met	2013\051313\antions_a_019.dxd
20	MS 12.5 ug/ml (130559-62847)	Sample		antions-042513.met	2013\051313\antions_a_020.dxd
21	MSD 12.5 ug/ml (130559-62847)	Sample		antions-042513.met	2013\051313\antions_a_021.dxd
22	DI Water Blank	Sample		antions-042513.met	2013\051313\antions_a_022.dxd
23	CCV 25ug/ml SS0746x4	Sample		antions-042513.met	2013\051313\antions_a_023.dxd
24	130559-62847	Sample		antions-042513.met	2013\051313\antions_a_024.dxd
25	130559-62857	Sample		antions-042513.met	2013\051313\antions_a_025.dxd
26	130559-62866	Sample		antions-042513.met	2013\051313\antions_a_025.dxd
27	130559-62875	Sample		antions-042513.met	2013\051313\antions_a_027.dxd
28	130559-62884	Sample		antions-042513.met	2013\051313\antions_a_028.dxd
29	130559-62893	Sample		antions-042513.met	2013\051313\antions_a_029.dxd
30	130559-62902	Sample		antions-042513.met	2013\051313\antions_a_030.dxd
31	130559-62911	Sample		antions-042513.met	2013\051313\antions_a_031.dxd
32	DI Water Blank	Sample		antions-042513.met	2013\051313\antions_a_032.dxd
33	CCV 25ug/ml SS0746x4	Sample		antions-042513.met	2013\051313\antions_a_033.dxd
34	130559-62911	Sample		antions-042513.met	2013\051313\antions_a_034.dxd
35	130559-62911	Sample		antions-042513.met	2013\051313\antions_a_035.dxd
36	stopgp40.met	Sample		stopgp40.met	a

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Default Method Path: C:\PEAKNET\METHOD\2013  
 Default Data Path: C:\PEAKNET\DATA  
 Comment: