CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : NYCDPR BUSH TERMINAL LANDFILL PIERS 1-4

TRC COMPANIES, INC.

1430 Broadway

10th Floor Suite # 1000

New York, NY - 10018

Phone No: 212-221-7822

ORDER ID : M1770

ATTENTION : James Peronto, P.E., LEED AP

CHEMTECH

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Cover Page

Order ID : M1770

Project ID : NYCDPR Bush Terminal LandFill Piers 1-4

Client : TRC Companies, Inc.

Lab Sample Number	Client Sample Number
M1770-01	TB-03222021
M1770-02	MW-106I
M1770-03	MW-106S
M1770-04	MW-106SMS
M1770-05	MW-106SMSD
M1770-06	MW-105D
M1770-07	MW-105I
M1770-08	MW-105S
M1770-09	TB-03232021
M1770-10	MW-106D
M1770-11	MW-104D
M1770-12	MW-104I
M1770-13	MW-103D
M1770-14	MW-103I
M1770-15	MW-101S
M1770-16	MW-101I
M1770-17	MW-101D
M1770-18	FB-03232021
M1770-19	TB-03242021
M1770-20	MW-103S
M1770-21	MW-102D
M1770-22	MW-102S
M1770-23	MW-102I
M1770-24	MW-107I

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:45 am, Apr 06, 2021
Date: 4/2/2021

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

TRC Companies, Inc.
Project Name: NYCDPR Bush Terminal LandFill Piers 1-4
Project # N/A
Chemtech Project # M1770
Test Name: Anions Group1

A. Number of Samples and Date of Receipt:
8 Water samples were received on 03/22/2021.
10 Water samples were received on 03/23/2021.
6 Water samples were received on 03/24/2021.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, SVOCMS Group1 and VOCMS Group1. This data package contains results for Anions Group1.

C. Analytical Techniques:
The analysis of Anions Group1 was based on method 300.0.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
Sample MW-106I was diluted due to high concentrations for Chloride
& Sample MW-106S was diluted due to high concentrations for Chloride
& Sample MW-105D was diluted due to high concentrations for Chloride
& Sample MW-105I was diluted due to high concentrations for Chloride
& Sample MW-105S was diluted due to high concentrations for Chloride
& Sample MW-104D was diluted due to high concentrations for Chloride
& Sample MW-101S was diluted due to high concentrations for Chloride
& Sample MW-101I was diluted due to high concentrations for Chloride
& Sample MW-101D was diluted due to high concentrations for Chloride
& Sample MW-103S was diluted due to high concentrations for Chloride
& Sample MW-102D was diluted due to high concentrations for Chloride
& Sample MW-102I was diluted due to high concentrations for Chloride
& Sample MW-107I was diluted due to high concentrations for Chloride.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (EL-509-WATER-SAMPLEMS) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike (MW-106SMS) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike (MW-106DMS) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike (MW-107IMS) analysis met criteria for all samples except for Chloride due to sample concentration of chloride.

The Matrix Spike Duplicate(EL-509-WATER-SAMPLEMSD) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike Duplicate(MW-106SMSD) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike Duplicate(MW-106DMSD) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike Duplicate(MW-107IMSD) analysis met criteria for all samples except for Chloride due to sample concentration of chloride.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
Samples# M1770-10, M1770-11, M1770-12, M1770-13, M1770-14, M1770-15, M1770-16, M1770-17, M1770-20, M1770-21, M1770-22, M1770-23, M1770-24 were analyzed with straight dilutions as per history of high concentration.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:45 am, Apr 06, 2021

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: M1770 MATRIX: Water

METHOD: 300.0

		NA	NO	YES
1.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2.	Matrix Spike Duplicate Recoveries Met Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range. The Matrix Spike (MW-106SMS) analysis met criteria for all samples except for Chloride due to matrix interference. The Matrix Spike (MW-106DMS) analysis met criteria for all samples except for Chloride due to matrix interference. The Matrix Spike (MW-107IMS) analysis met criteria for all samples except for Chloride due to sample concentration of chloride. The Matrix Spike Duplicate(EL-509-WATER-SAMPLEMSD) analysis met criteria for all samples except for Chloride due to matrix interference. The Matrix Spike Duplicate(MW-106SMSD) analysis met criteria for all samples except for Chloride due to matrix interference. The Matrix Spike Duplicate(MW-106DMSD) analysis met criteria for all samples except for Chloride due to matrix interference. The Matrix Spike Duplicate(MW-107IMSD) analysis met criteria for all samples except for Chloride due to sample concentration of chloride. The Blank Spike met requirements for all samples.The Matrix Spike (EL-509-WATER-SAMPLEMS) analysis met criteria for all samples except for Chloride due to matrix interference.			
3.	Sample Duplicate Analysis Met QC Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
8.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: Samples# M1770-10, M1770-11, M1770-12, M1770-13, M1770-14, M1770-15, M1770-16, M1770-17, M1770-20, M1770-21, M1770-22, M1770-23, M1770-24 were analyzed with straight dilutions as per history of high concentration.

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 11:13 am, Apr 06, 2021

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: M1770

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 04/02/2021

2nd Level QA Review Signature: N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:46 am, Apr 06, 2021

Date:

CHEMTECH

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LAB CHRONICLE

OrderID:	M1770	**OrderDate:**	3/22/2021 4:40:20 PM
Client:	TRC Companies, Inc.	**Project:**	NYCDPR Bush Terminal LandFill Piers 1-4
Contact:	James Peronto, P.E., LEED AP	**Location:**	J52,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
M1770-02	**MW-106I**	**WATER**			**03/22/21 12:15**			**03/22/21**
			Anions Group1	300.0			03/23/21 11:54	
M1770-02DL	**MW-106IDL**	**WATER**			**03/22/21 12:15**			**03/22/21**
			Anions Group1	300.0			03/23/21 16:43	
M1770-03	**MW-106S**	**WATER**			**03/22/21 13:30**			**03/22/21**
			Anions Group1	300.0			03/23/21 12:26	
M1770-03DL	**MW-106SDL**	**WATER**			**03/22/21 13:30**			**03/22/21**
			Anions Group1	300.0			03/23/21 17:14	
M1770-06	**MW-105D**	**WATER**			**03/22/21 13:18**			**03/22/21**
			Anions Group1	300.0			03/23/21 12:58	
M1770-06DL	**MW-105DDL**	**WATER**			**03/22/21 13:18**			**03/22/21**
			Anions Group1	300.0			03/23/21 17:46	
M1770-07	**MW-105I**	**WATER**			**03/22/21 15:30**			**03/22/21**
			Anions Group1	300.0			03/23/21 13:30	
M1770-07DL	**MW-105IDL**	**WATER**			**03/22/21 15:30**			**03/22/21**

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LAB CHRONICLE

			Anions Group1	300.0		03/23/21 18:18	
M1770-08	**MW-105S**	**WATER**			**03/22/21 15:45**		**03/22/21**
			Anions Group1	300.0		03/23/21 14:02	
M1770-08DL	**MW-105SDL**	**WATER**			**03/22/21 15:45**		**03/22/21**
			Anions Group1	300.0		03/23/21 18:50	
M1770-10	**MW-106D**	**WATER**			**03/23/21 09:40**		**03/23/21**
			Anions Group1	300.0		03/24/21 11:16	
M1770-11	**MW-104D**	**WATER**			**03/23/21 10:05**		**03/23/21**
			Anions Group1	300.0		03/24/21 11:48	
M1770-11DL	**MW-104DDL**	**WATER**			**03/23/21 10:05**		**03/23/21**
			Anions Group1	300.0		03/24/21 18:10	
M1770-12	**MW-104I**	**WATER**			**03/23/21 09:55**		**03/23/21**
			Anions Group1	300.0		03/24/21 18:42	
M1770-13	**MW-103D**	**WATER**			**03/23/21 11:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 19:14	
M1770-14	**MW-103I**	**WATER**			**03/23/21 13:30**		**03/23/21**
			Anions Group1	300.0		03/24/21 19:46	
M1770-15	**MW-101S**	**WATER**			**03/23/21 15:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 13:55	

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M1770-15DL	**MW-101SDL**	**WATER**			**03/23/21 15:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 20:18	
M1770-16	**MW-101I**	**WATER**			**03/23/21 12:30**		**03/23/21**
			Anions Group1	300.0		03/24/21 14:27	
M1770-16DL	**MW-101IDL**	**WATER**			**03/23/21 12:30**		**03/23/21**
			Anions Group1	300.0		03/24/21 20:50	
M1770-17	**MW-101D**	**WATER**			**03/23/21 13:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 14:59	
M1770-17DL	**MW-101DDL**	**WATER**			**03/23/21 13:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 21:22	
M1770-18	**FB-03232021**	**WATER**			**03/23/21 14:45**		**03/23/21**
			Anions Group1	300.0		03/24/21 16:35	
M1770-20	**MW-103S**	**WATER**			**03/24/21 11:30**		**03/24/21**
			Anions Group1	300.0		03/25/21 16:15	
M1770-20DL	**MW-103SDL**	**WATER**			**03/24/21 11:30**		**03/24/21**
			Anions Group1	300.0		03/26/21 12:43	
M1770-21	**MW-102D**	**WATER**			**03/24/21 11:30**		**03/24/21**
			Anions Group1	300.0		03/25/21 16:47	

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LAB CHRONICLE

M1770-21DL	**MW-102DDL**	**WATER**			**03/24/21 11:30**		**03/24/21**
			Anions Group1	300.0		03/26/21 13:16	
M1770-22	**MW-102S**	**WATER**			**03/24/21 13:55**		**03/24/21**
			Anions Group1	300.0		03/25/21 17:19	
M1770-23	**MW-102I**	**WATER**			**03/24/21 13:40**		**03/24/21**
			Anions Group1	300.0		03/25/21 17:50	
M1770-23DL	**MW-102IDL**	**WATER**			**03/24/21 13:40**		**03/24/21**
			Anions Group1	300.0		03/26/21 13:49	
M1770-24	**MW-107I**	**WATER**			**03/24/21 13:45**		**03/24/21**
			Anions Group1	300.0		03/25/21 18:22	
M1770-24DL	**MW-107IDL**	**WATER**			**03/24/21 13:45**		**03/24/21**
			Anions Group1	300.0		03/26/21 14:22	

SAMPLE DATA

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 12:15
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106I	SDG No.:	M1770
Lab Sample ID:	M1770-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1750	OR	1	0.070	0.60	mg/L		03/23/21 11:54	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 12:15
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106IDL	SDG No.:	M1770
Lab Sample ID:	M1770-02DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1050	D	400	27.9	240	mg/L		03/23/21 16:43	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 13:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106S	SDG No.:	M1770
Lab Sample ID:	M1770-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	745	OR	1	0.070	0.60	mg/L		03/23/21 12:26	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 13:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SDL	SDG No.:	M1770
Lab Sample ID:	M1770-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	440	D	100	7.00	60.0	mg/L		03/23/21 17:14	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 13:18
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105D	SDG No.:	M1770
Lab Sample ID:	M1770-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	2960	OR	1	0.070	0.60	mg/L		03/23/21 12:58	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 13:18
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105DDL	SDG No.:	M1770
Lab Sample ID:	M1770-06DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1850	D	500	34.8	300	mg/L		03/23/21 17:46	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 15:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105I	SDG No.:	M1770
Lab Sample ID:	M1770-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	737	OR	1	0.070	0.60	mg/L		03/23/21 13:30	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 15:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105IDL	SDG No.:	M1770
Lab Sample ID:	M1770-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	457	D	100	7.00	60.0	mg/L		03/23/21 18:18	300.0

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 15:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105S	SDG No.:	M1770
Lab Sample ID:	M1770-08	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	881	OR	1	0.070	0.60	mg/L		03/23/21 14:02	300.0

Comments:

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LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 15:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105SDL	SDG No.:	M1770
Lab Sample ID:	M1770-08DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	523	D	200	13.9	120	mg/L		03/23/21 18:50	300.0

Comments:

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LOQ = Limit of Quantitation
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LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 09:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-106D	SDG No.:	M1770
Lab Sample ID:	M1770-10	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	83.6	D	20	1.40	12.0	mg/L		03/24/21 11:16	300.0

Comments:

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LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 10:05
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104D	SDG No.:	M1770
Lab Sample ID:	M1770-11	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	13800	OR	20	1.40	12.0	mg/L		03/24/21 11:48	300.0

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 10:05
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104DDL	SDG No.:	M1770
Lab Sample ID:	M1770-11DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	8620	D	2000	139	1200	mg/L		03/24/21 18:10	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 09:55
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104I	SDG No.:	M1770
Lab Sample ID:	M1770-12	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	10.0	D	2	0.14	1.20	mg/L		03/24/21 18:42	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 11:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103D	SDG No.:	M1770
Lab Sample ID:	M1770-13	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	12.1	D	2	0.14	1.20	mg/L		03/24/21 19:14	300.0

Comments:

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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 13:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103I	SDG No.:	M1770
Lab Sample ID:	M1770-14	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	10.4	D	2	0.14	1.20	mg/L		03/24/21 19:46	300.0

Comments:

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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 15:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101S	SDG No.:	M1770
Lab Sample ID:	M1770-15	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	293	OR	20	1.40	12.0	mg/L		03/24/21 13:55	300.0

Comments:

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 15:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101SDL	SDG No.:	M1770
Lab Sample ID:	M1770-15DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	268	D	50	3.50	30.0	mg/L		03/24/21 20:18	300.0

Comments:

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J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 12:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101I	SDG No.:	M1770
Lab Sample ID:	M1770-16	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	347	OR	20	1.40	12.0	mg/L		03/24/21 14:27	300.0

Comments:

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 12:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101IDL	SDG No.:	M1770
Lab Sample ID:	M1770-16DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	311	D	50	3.50	30.0	mg/L		03/24/21 20:50	300.0

Comments:

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J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 13:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101D	SDG No.:	M1770
Lab Sample ID:	M1770-17	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	410	OR	20	1.40	12.0	mg/L		03/24/21 14:59	300.0

Comments:

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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 13:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101DDL	SDG No.:	M1770
Lab Sample ID:	M1770-17DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	338	D	100	7.00	60.0	mg/L		03/24/21 21:22	300.0

Comments:

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J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 14:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	FB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-18	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1.00		1	0.070	0.60	mg/L		03/24/21 16:35	300.0

Comments:

U = Not Detected
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 11:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103S	SDG No.:	M1770
Lab Sample ID:	M1770-20	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	4330	OR	5	0.35	3.00	mg/L		03/25/21 16:15	300.0

Comments:

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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 11:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103SDL	SDG No.:	M1770
Lab Sample ID:	M1770-20DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	2660	D	1000	69.7	600	mg/L		03/26/21 12:43	300.0

Comments:

U = Not Detected
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J = Estimated Value
B = Analyte Found in Associated Method Blank
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 11:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102D	SDG No.:	M1770
Lab Sample ID:	M1770-21	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	334	OR	5	0.35	3.00	mg/L		03/25/21 16:47	300.0

Comments:

U = Not Detected
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 11:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102DDL	SDG No.:	M1770
Lab Sample ID:	M1770-21DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	258	D	50	3.50	30.0	mg/L		03/26/21 13:16	300.0

Comments:

U = Not Detected
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LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:55
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102S	SDG No.:	M1770
Lab Sample ID:	M1770-22	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	8.30	D	5	0.35	3.00	mg/L		03/25/21 17:19	300.0

Comments:

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H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102I	SDG No.:	M1770
Lab Sample ID:	M1770-23	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	346	OR	5	0.35	3.00	mg/L		03/25/21 17:50	300.0

Comments:

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MDL = Method Detection Limit
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N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102IDL	SDG No.:	M1770
Lab Sample ID:	M1770-23DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	261	D	50	3.50	30.0	mg/L		03/26/21 13:49	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107I	SDG No.:	M1770
Lab Sample ID:	M1770-24	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	341	OR	5	0.35	3.00	mg/L		03/25/21 18:22	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107IDL	SDG No.:	M1770
Lab Sample ID:	M1770-24DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	267	D	50	3.50	30.0	mg/L		03/26/21 14:22	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113629

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.8	10	98	90-110	03/09/2021
Chloride	mg/L	2.9	3	97	90-110	03/09/2021
Fluoride	mg/L	2	2	100	90-110	03/09/2021
Nitrite	mg/L	2.9	3	97	90-110	03/09/2021
Nitrate	mg/L	2.4	2.5	96	90-110	03/09/2021
Sulfate	mg/L	14.5	15	97	90-110	03/09/2021
Orthophosphate as P	mg/L	5	5	100	90-110	03/09/2021
Sample ID: CCV1						
Bromide	mg/L	9.3	10	93	90-110	03/23/2021
Chloride	mg/L	2.8	3	93	90-110	03/23/2021
Fluoride	mg/L	1.9	2	95	90-110	03/23/2021
Nitrite	mg/L	2.8	3	93	90-110	03/23/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/23/2021
Sulfate	mg/L	13.7	15	91	90-110	03/23/2021
Orthophosphate as P	mg/L	5.1	5	102	90-110	03/23/2021
Sample ID: CCV2						
Bromide	mg/L	9.3	10	93	90-110	03/23/2021
Chloride	mg/L	2.8	3	93	90-110	03/23/2021
Fluoride	mg/L	1.9	2	95	90-110	03/23/2021
Nitrite	mg/L	2.8	3	93	90-110	03/23/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/23/2021
Sulfate	mg/L	13.9	15	93	90-110	03/23/2021
Orthophosphate as P	mg/L	6.4	5	128	90-110	03/23/2021
Sample ID: CCV3						
Bromide	mg/L	9.3	10	93	90-110	03/23/2021
Chloride	mg/L	2.8	3	93	90-110	03/23/2021
Fluoride	mg/L	2	2	100	90-110	03/23/2021
Nitrite	mg/L	2.8	3	93	90-110	03/23/2021
Nitrate	mg/L	2.4	2.5	96	90-110	03/23/2021
Sulfate	mg/L	14	15	93	90-110	03/23/2021
Orthophosphate as P	mg/L	5.6	5	112	90-110	03/23/2021
Sample ID: CCV4						
Bromide	mg/L	9.2	10	92	90-110	03/24/2021
Chloride	mg/L	2.8	3	93	90-110	03/24/2021
Fluoride	mg/L	2	2	100	90-110	03/24/2021
Nitrite	mg/L	2.8	3	93	90-110	03/24/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/24/2021
Sulfate	mg/L	14.1	15	94	90-110	03/24/2021
Orthophosphate as P	mg/L	5.1	5	102	90-110	03/24/2021
Sample ID: CCV5						
Bromide	mg/L	9.6	10	96	90-110	03/24/2021

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Initial and Continuing Calibration Verification

Client:	TRC Companies, Inc.	**SDG No.:**	M1770
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	**RunNo.:**	LB113629

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Chloride	mg/L	2.9	3	97	90-110	03/24/2021
Fluoride	mg/L	2	2	100	90-110	03/24/2021
Nitrite	mg/L	2.9	3	97	90-110	03/24/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/24/2021
Sulfate	mg/L	14	15	93	90-110	03/24/2021
Orthophosphate as P	mg/L	5.4	5	108	90-110	03/24/2021
Sample ID: CCV6						
Bromide	mg/L	9.3	10	93	90-110	03/24/2021
Chloride	mg/L	2.8	3	93	90-110	03/24/2021
Fluoride	mg/L	2	2	100	90-110	03/24/2021
Nitrite	mg/L	2.9	3	97	90-110	03/24/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/24/2021
Sulfate	mg/L	13.6	15	91	90-110	03/24/2021
Orthophosphate as P	mg/L	5.5	5	110	90-110	03/24/2021

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Initial and Continuing Calibration Verification

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113684

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.8	10	98	90-110	03/09/2021
Chloride	mg/L	2.9	3	97	90-110	03/09/2021
Fluoride	mg/L	2	2	100	90-110	03/09/2021
Nitrite	mg/L	2.9	3	97	90-110	03/09/2021
Nitrate	mg/L	2.4	2.5	96	90-110	03/09/2021
Sulfate	mg/L	14.5	15	97	90-110	03/09/2021
Orthophosphate as P	mg/L	5	5	100	90-110	03/09/2021
Sample ID: CCV1						
Bromide	mg/L	9.1	10	91	90-110	03/25/2021
Chloride	mg/L	2.8	3	93	90-110	03/25/2021
Fluoride	mg/L	1.8	2	90	90-110	03/25/2021
Nitrite	mg/L	2.8	3	93	90-110	03/25/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/25/2021
Sulfate	mg/L	13.5	15	90	90-110	03/25/2021
Orthophosphate as P	mg/L	5.2	5	104	90-110	03/25/2021
Sample ID: CCV2						
Bromide	mg/L	9.2	10	92	90-110	03/25/2021
Chloride	mg/L	2.8	3	93	90-110	03/25/2021
Fluoride	mg/L	2	2	100	90-110	03/25/2021
Nitrite	mg/L	2.8	3	93	90-110	03/25/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/25/2021
Sulfate	mg/L	13.6	15	91	90-110	03/25/2021
Orthophosphate as P	mg/L	5.5	5	110	90-110	03/25/2021
Sample ID: CCV3						
Bromide	mg/L	9.2	10	92	90-110	03/26/2021
Chloride	mg/L	2.8	3	93	90-110	03/26/2021
Fluoride	mg/L	2	2	100	90-110	03/26/2021
Nitrite	mg/L	2.8	3	93	90-110	03/26/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/26/2021
Sulfate	mg/L	13.5	15	90	90-110	03/26/2021
Orthophosphate as P	mg/L	5	5	100	90-110	03/26/2021
Sample ID: CCV4						
Bromide	mg/L	9.3	10	93	90-110	03/26/2021
Chloride	mg/L	2.9	3	97	90-110	03/26/2021
Fluoride	mg/L	1.9	2	95	90-110	03/26/2021
Nitrite	mg/L	3.2	3	107	90-110	03/26/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/26/2021
Sulfate	mg/L	13.5	15	90	90-110	03/26/2021
Orthophosphate as P	mg/L	5	5	100	90-110	03/26/2021

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Initial and Continuing Calibration Blank Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113629

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: ICB1						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/09/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/09/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/09/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/09/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/09/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/09/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/09/2021
Sample ID: CCB1						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/23/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/23/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/23/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/23/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/23/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/23/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/23/2021
Sample ID: CCB2						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/23/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/23/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/23/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/23/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/23/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/23/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/23/2021
Sample ID: CCB3						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/23/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/23/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/23/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/23/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/23/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/23/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/23/2021
Sample ID: CCB4						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/24/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/24/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/24/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/24/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/24/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/24/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/24/2021
Sample ID: CCB5						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/24/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/24/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/24/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/24/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/24/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/24/2021

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Initial and Continuing Calibration Blank Summary

Client:	TRC Companies, Inc.	**SDG No.:**	M1770
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	**RunNo.:**	LB113629

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/24/2021
Sample ID: CCB6						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/24/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/24/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/24/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/24/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/24/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/24/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/24/2021

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Initial and Continuing Calibration Blank Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113684

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: ICB1						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/09/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/09/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/09/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/09/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/09/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/09/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/09/2021
Sample ID: CCB1						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/25/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/25/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/25/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/25/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/25/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/25/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/25/2021
Sample ID: CCB2						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/25/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/25/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/25/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/25/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/25/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/25/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/25/2021
Sample ID: CCB3						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/26/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/26/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/26/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/26/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/26/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/26/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/26/2021
Sample ID: CCB4						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/26/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/26/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/26/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/26/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/26/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/26/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/26/2021

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Preparation Blank Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: LB113629BLW						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/23/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/23/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/23/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/23/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/23/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/23/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/23/2021
Sample ID: LB113629BLW2						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/24/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/24/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/24/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/24/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/24/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/24/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/24/2021
Sample ID: LB113684BLW						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/25/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/25/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/25/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/25/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/25/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/25/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/25/2021
Sample ID: LB113684BLW2						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/26/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/26/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/26/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/26/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/26/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/26/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/26/2021

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Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1763-03

Client ID: EL-509-WATER-SAMPLEMS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.5		2.20		10	1	93		03/26/2021
Chloride	mg/L	80-120	1000	OR	1020	OR	3	1	-667	*	03/26/2021
Fluoride	mg/L	80-120	2.60		1.00		2	1	80		03/26/2021
Nitrite	mg/L	80-120	3.00		0.30	J	3	1	90		03/26/2021
Nitrate	mg/L	80-120	6.50	OR	4.00		2.5	1	100		03/26/2021
Sulfate	mg/L	80-120	63.8	OR	50.2	OR	15	1	91		03/26/2021
Orthophosphate as P	mg/L	80-120	1.50		0.086	U	5	1	30	*	03/26/2021

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Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1763-03

Client ID: EL-509-WATER-SAMPLEMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.4		2.20		10	1	92		03/26/2021
Chloride	mg/L	80-120	976	OR	1020	OR	3	1	-1467	*	03/26/2021
Fluoride	mg/L	80-120	2.60		1.00		2	1	80		03/26/2021
Nitrite	mg/L	80-120	3.00		0.30	J	3	1	90		03/26/2021
Nitrate	mg/L	80-120	6.50	OR	4.00		2.5	1	100		03/26/2021
Sulfate	mg/L	80-120	63.8	OR	50.2	OR	15	1	91		03/26/2021
Orthophosphate as P	mg/L	80-120	1.00		0.086	U	5	1	20	*	03/26/2021

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Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-03

Client ID: MW-106SMS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.0		1.90	J	10	1	91		03/23/2021
Chloride	mg/L	80-120	703	OR	745	OR	3	1	-1400	*	03/23/2021
Fluoride	mg/L	80-120	3.00		0.79		2	1	111		03/23/2021
Nitrite	mg/L	80-120	3.30		0.053	U	3	1	110		03/23/2021
Nitrate	mg/L	80-120	2.40		0.046	U	2.5	1	96		03/23/2021
Sulfate	mg/L	80-120	84.1	OR	73.1	OR	15	1	73	*	03/23/2021
Orthophosphate as P	mg/L	80-120	6.30		0.086	U	5	1	126	*	03/23/2021

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Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-03

Client ID: MW-106SMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.7		1.90	J	10	1	88		03/23/2021
Chloride	mg/L	80-120	692	OR	745	OR	3	1	-1767	*	03/23/2021
Fluoride	mg/L	80-120	3.00		0.79		2	1	111		03/23/2021
Nitrite	mg/L	80-120	3.20		0.053	U	3	1	107		03/23/2021
Nitrate	mg/L	80-120	2.30		0.046	U	2.5	1	92		03/23/2021
Sulfate	mg/L	80-120	83.9	OR	73.1	OR	15	1	72	*	03/23/2021
Orthophosphate as P	mg/L	80-120	6.70		0.086	U	5	1	134	*	03/23/2021

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Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-10

Client ID: MW-106DMS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	22.0	J	2.70	U	10	20	220	*	03/24/2021
Chloride	mg/L	80-120	79.7		83.6	D	3	20	-130	*	03/24/2021
Fluoride	mg/L	80-120	3.00	J	1.40	U	2	20	150	*	03/24/2021
Nitrite	mg/L	80-120	6.40	J	1.10	U	3	20	213	*	03/24/2021
Nitrate	mg/L	80-120	7.70	J	6.10	J	2.5	20	64	*	03/24/2021
Sulfate	mg/L	80-120	37.1	J	25.5	J	15	20	77	*	03/24/2021
Orthophosphate as P	mg/L	80-120	1.70	U	1.70	U	5	20	0	*	03/24/2021

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Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-10

Client ID: MW-106DMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	21.5	J	2.70	U	10	20	215	*	03/24/2021
Chloride	mg/L	80-120	79.9		83.6	D	3	20	-123	*	03/24/2021
Fluoride	mg/L	80-120	2.30	J	1.40	U	2	20	115		03/24/2021
Nitrite	mg/L	80-120	6.30	J	1.10	U	3	20	210	*	03/24/2021
Nitrate	mg/L	80-120	7.50	J	6.10	J	2.5	20	56	*	03/24/2021
Sulfate	mg/L	80-120	36.7	J	25.5	J	15	20	75	*	03/24/2021
Orthophosphate as P	mg/L	80-120	1.70	U	1.70	U	5	20	9	*	03/24/2021

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Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-24

Client ID: MW-107IMS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.5		0.68	U	10	5	115		03/25/2021
Chloride	mg/L	80-120	325	OR	341	OR	3	5	-533	*	03/25/2021
Fluoride	mg/L	80-120	2.60		0.35	U	2	5	130	*	03/25/2021
Nitrite	mg/L	80-120	3.20		0.27	U	3	5	107		03/25/2021
Nitrate	mg/L	80-120	9.80		8.20	D	2.5	5	64	*	03/25/2021
Sulfate	mg/L	80-120	79.6		70.1	D	15	5	63	*	03/25/2021
Orthophosphate as P	mg/L	80-120	5.50		0.43	U	5	5	110		03/25/2021

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Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-24

Client ID: MW-107IMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.5		0.68	U	10	5	115		03/25/2021
Chloride	mg/L	80-120	327	OR	341	OR	3	5	-467	*	03/25/2021
Fluoride	mg/L	80-120	2.40		0.35	U	2	5	120		03/25/2021
Nitrite	mg/L	80-120	3.30		0.27	U	3	5	110		03/25/2021
Nitrate	mg/L	80-120	10.0		8.20	D	2.5	5	72	*	03/25/2021
Sulfate	mg/L	80-120	79.6		70.1	D	15	5	63	*	03/25/2021
Orthophosphate as P	mg/L	80-120	6.60		0.43	U	5	5	132	*	03/25/2021

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Duplicate Sample Summary

Client: TRC Companies, Inc.
SDG No.: M1770
Project: NYCDPR Bush Terminal LandFill Piers 1-4
Sample ID: M1763-03
Client ID: EL-509-WATER-SAMPLEMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	2.60		2.60		1	0		03/26/2021
Nitrite	mg/L	+/-20	3.00		3.00		1	0		03/26/2021
Nitrate	mg/L	+/-20	6.50	OR	6.50	OR	1	0		03/26/2021
Sulfate	mg/L	+/-20	63.8	OR	63.8	OR	1	0		03/26/2021
Bromide	mg/L	+/-20	11.5		11.4		1	1		03/26/2021
Chloride	mg/L	+/-20	1000	OR	976	OR	1	2		03/26/2021
Orthophosphate as P	mg/L	+/-20	1.50		1.00		1	40	*	03/26/2021

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Duplicate Sample Summary

Client: TRC Companies, Inc.
SDG No.: M1770
Project: NYCDPR Bush Terminal LandFill Piers 1-4
Sample ID: M1770-03
Client ID: MW-106SMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	3.00		3.00		1	0		03/23/2021
Sulfate	mg/L	+/-20	84.1	OR	83.9	OR	1	0		03/23/2021
Chloride	mg/L	+/-20	703	OR	692	OR	1	2		03/23/2021
Bromide	mg/L	+/-20	11.0		10.7		1	3		03/23/2021
Nitrite	mg/L	+/-20	3.30		3.20		1	3		03/23/2021
Nitrate	mg/L	+/-20	2.40		2.30		1	4		03/23/2021
Orthophosphate as P	mg/L	+/-20	6.30		6.70		1	6		03/23/2021

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Duplicate Sample Summary

Client: TRC Companies, Inc.
SDG No.: M1770
Project: NYCDPR Bush Terminal LandFill Piers 1-4
Sample ID: M1770-10
Client ID: MW-106DMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Chloride	mg/L	+/-20	79.7		79.9		20	0		03/24/2021
Sulfate	mg/L	+/-20	37.1	J	36.7	J	20	1		03/24/2021
Bromide	mg/L	+/-20	22.0	J	21.5	J	20	2		03/24/2021
Nitrite	mg/L	+/-20	6.40	J	6.30	J	20	2		03/24/2021
Nitrate	mg/L	+/-20	7.70	J	7.50	J	20	3		03/24/2021
Fluoride	mg/L	+/-20	3.00	J	2.30	J	20	26	*	03/24/2021
Orthophosphate as P	mg/L	+/-20	1.70	U	1.70	U	20	51	*	03/24/2021

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Duplicate Sample Summary

Client: TRC Companies, Inc.
SDG No.: M1770
Project: NYCDPR Bush Terminal LandFill Piers 1-4
Sample ID: M1770-24
Client ID: MW-107IMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Bromide	mg/L	+/-20	11.5		11.5		5	0		03/25/2021
Sulfate	mg/L	+/-20	79.6		79.6		5	0		03/25/2021
Chloride	mg/L	+/-20	325	OR	327	OR	5	1		03/25/2021
Orthophosphate as P	mg/L	+/-20	5.50		6.60		5	18		03/25/2021
Nitrate	mg/L	+/-20	9.80		10.0		5	2		03/25/2021
Nitrite	mg/L	+/-20	3.20		3.30		5	3		03/25/2021
Fluoride	mg/L	+/-20	2.60		2.40		5	8		03/25/2021

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Laboratory Control Sample Summary

Client:	TRC Companies, Inc.	**SDG No.:**	M1770
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	**Run No.:**	LB113629

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB113629BSW								
Bromide	mg/L	10	9.50		95	1	90-110	03/23/2021
Chloride	mg/L	3	2.80		93	1	90-110	03/23/2021
Fluoride	mg/L	2	2.00		100	1	90-110	03/23/2021
Nitrite	mg/L	3	2.80		93	1	90-110	03/23/2021
Nitrate	mg/L	2.5	2.40		96	1	90-110	03/23/2021
Sulfate	mg/L	15	14.0		93	1	90-110	03/23/2021
Orthophosphate as P	mg/L	5	5.40		108	1	90-110	03/23/2021

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Laboratory Control Sample Summary

Client:	TRC Companies, Inc.	**SDG No.:**	M1770
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	**Run No.:**	LB113629

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB113629BSW2								
Bromide	mg/L	10	9.30		93	1	90-110	03/24/2021
Chloride	mg/L	3	2.80		93	1	90-110	03/24/2021
Fluoride	mg/L	2	2.00		100	1	90-110	03/24/2021
Nitrite	mg/L	3	2.80		93	1	90-110	03/24/2021
Nitrate	mg/L	2.5	2.30		92	1	90-110	03/24/2021
Sulfate	mg/L	15	13.7		91	1	90-110	03/24/2021
Orthophosphate as P	mg/L	5	5.40		108	1	90-110	03/24/2021

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Laboratory Control Sample Summary

Client:	TRC Companies, Inc.	**SDG No.:**	M1770
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	**Run No.:**	LB113684

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB113684BSW								
Bromide	mg/L	10	9.40		94	1	90-110	03/25/2021
Chloride	mg/L	3	2.70		90	1	90-110	03/25/2021
Fluoride	mg/L	2	1.90		95	1	90-110	03/25/2021
Nitrite	mg/L	3	2.80		93	1	90-110	03/25/2021
Nitrate	mg/L	2.5	2.30		92	1	90-110	03/25/2021
Sulfate	mg/L	15	13.3		89	1	90-110	03/25/2021
Orthophosphate as P	mg/L	5	5.20		104	1	90-110	03/25/2021

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Laboratory Control Sample Summary

Client:	TRC Companies, Inc.	**SDG No.:**	M1770
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	**Run No.:**	LB113684

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB113684BSW2								
Bromide	mg/L	10	9.20		92	1	90-110	03/26/2021
Chloride	mg/L	3	2.80		93	1	90-110	03/26/2021
Fluoride	mg/L	2	2.00		100	1	90-110	03/26/2021
Nitrite	mg/L	3	2.80		93	1	90-110	03/26/2021
Nitrate	mg/L	2.5	2.30		92	1	90-110	03/26/2021
Sulfate	mg/L	15	13.6		91	1	90-110	03/26/2021
Orthophosphate as P	mg/L	5	5.30		106	1	90-110	03/26/2021

RAW DATA

IC-1
300.0
03/26/2021
AM

Clear table

ident	concentration F-	concentration CL-	concentration NO2	concentration BR-	concentration NO3	concentration HPO4	concentration SO4	file name	date time	Initial wt/ Final Vol	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-09_	3/9/21 9:53		AM/AP
STD2	0.3800	0.6610	0.6650	2.3350	0.5890	0.7930	3.5170	_2021-03-09_	3/9/21 10:25		AM/AP
STD3	0.8060	1.2430	1.2290	4.1410	1.0270	2.0680	6.1740	_2021-03-09_	3/9/21 11:04		AM/AP
STD4	1.0000	1.4840	1.4780	5.0120	1.2560	2.5800	7.4420	_2021-03-09_	3/9/21 11:34		AM/AP
STD5	2.0300	2.9410	2.9490	9.4860	2.3580	5.0880	14.1650	_2021-03-09_	3/9/21 12:05		AM/AP
STD6	3.9820	5.8220	5.8470	19.5340	4.9180	10.1240	29.7870	_2021-03-09_	3/9/21 12:36		AM/AP
STD7	5.0030	7.6490	7.6310	25.4930	6.3520	12.3470	37.9150	_2021-03-09_	3/9/21 13:07		AM/AP
ICV	2.0000	2.9430	2.9180	9.7600	2.4440	5.0450	14.4750	_2021-03-09_	3/9/21 13:41		AM/AP
ICB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-09_	3/9/21 14:12		AM/AP
CCV	1.9430	2.7910	2.8230	9.2500	2.3210	5.1440	13.6880	_2021-03-23_	3/23/21 9:38		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-23_	3/23/21 10:18		AM/AP
LB113629BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-23_	3/23/21 10:50		AM/AP
LB113629BSW	1.9680	2.8020	2.8310	9.5100	2.4070	5.4380	14.0060	_2021-03-23_	3/23/21 11:22		AM/AP
M1770-02	1.6470	1752.5990	0.2280	4.0590	2.7160	0.2830	207.4370	_2021-03-23_	3/23/21 11:54		AM/AP
M1770-03	0.7900	745.1350	0.0000	1.8800	0.0000	-0.0990	73.0670	_2021-03-23_	3/23/21 12:26		AM/AP
M1770-06	0.4090	2958.3400	0.0000	6.6440	0.8640	0.0000	295.8390	_2021-03-23_	3/23/21 12:58		AM/AP
M1770-07	1.2460	737.3360	0.0000	2.3320	0.3350	0.0740	23.3080	_2021-03-23_	3/23/21 13:30		AM/AP
M1770-08	1.4410	881.1290	0.0000	2.1200	0.2100	-0.0960	244.5950	_2021-03-23_	3/23/21 14:02		AM/AP
M1770-04MS	3.0170	702.7930	3.2710	11.0210	2.4040	6.3310	84.0770	_2021-03-23_	3/23/21 14:33		AM/AP
M1770-05MSD	3.0330	692.4810	3.1830	10.6570	2.3450	6.7190	83.9310	_2021-03-23_	3/23/21 15:05		AM/AP
CCV	1.9480	2.8130	2.8090	9.3060	2.3330	6.3620	13.9390	_2021-03-23_	3/23/21 15:37		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-23_	3/23/21 16:11		AM/AP
M1770-02DLX40(	0.0000	2.6170	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-23_	3/23/21 16:43		AM/AP
M1770-03DLX10(	0.0000	4.3950	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-23_	3/23/21 17:14		AM/AP
M1770-06DLX50(	0.0000	3.6980	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-23_	3/23/21 17:46		AM/AP
M1770-07DLX10(	0.0000	4.5730	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-23_	3/23/21 18:18		AM/AP
M1770-08DLX20(	0.0000	2.6150	0.0000	0.0000	0.0000	0.0000	1.8790	_2021-03-23_	3/23/21 18:50		AM/AP
CCV	2.0150	2.8000	2.8260	9.3200	2.3620	5.6150	13.9760	_2021-03-23_	3/23/21 19:22		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-23_	3/23/21 19:54		AM/AP
CCV	2.0150	2.8040	2.8100	9.2060	2.2930	5.1400	14.0590	_2021-03-24_	3/24/21 8:55		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-24_	3/24/21 9:40		AM/AP
LB113629BLW2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-24_	3/24/21 10:12		AM/AP
LB113629BSW2	2.0370	2.7870	2.8460	9.3060	2.3160	5.3980	13.7150	_2021-03-24_	3/24/21 10:44		AM/AP

M1770-10X20	0.0000	4.1810	0.0000	0.0000	0.3060	0.0000	1.2770	_2021-03-24_	3/24/21 11:16	AM/AP
M1770-11X20	0.0000	691.2360	0.0000	2.0450	0.0000	0.0000	39.3170	_2021-03-24_	3/24/21 11:48	AM/AP
M1770-15X20	0.0000	14.6370	0.0000	0.0000	0.5610	0.0000	3.9960	_2021-03-24_	3/24/21 13:55	AM/AP
M1770-16X20	0.0000	17.3720	0.0000	0.0000	0.6030	0.0000	4.1490	_2021-03-24_	3/24/21 14:27	AM/AP
M1770-17X20	0.0000	20.4750	0.0000	0.0000	0.6780	0.0000	4.5390	_2021-03-24_	3/24/21 14:59	AM/AP
CCV	1.9570	2.8650	2.9100	9.5920	2.3490	5.4140	13.9960	_2021-03-24_	3/24/21 15:31	AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-24_	3/24/21 16:03	AM/AP
M1770-18	0.0000	1.0080	0.0000	0.0000	0.0000	0.0000	1.2560	_2021-03-24_	3/24/21 16:35	AM/AP
M1770-10MSX20	0.1490	3.9840	0.3200	1.0990	0.3840	0.0130	1.8560	_2021-03-24_	3/24/21 17:07	AM/AP
M1770-10MSDX2	0.1160	3.9950	0.3150	1.0770	0.3730	0.0220	1.8330	_2021-03-24_	3/24/21 17:39	AM/AP
M1770-11DLX20(	0.0000	4.3120	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-24_	3/24/21 18:10	AM/AP
M1770-12X2	0.0000	5.0140	0.0000	0.0000	0.6060	0.0000	2.3140	_2021-03-24_	3/24/21 18:42	AM/AP
M1770-13X2	0.0000	6.0720	0.0000	0.0000	41.0810	0.0000	2.1380	_2021-03-24_	3/24/21 19:14	AM/AP
M1770-14X2	0.0860	5.1780	0.0000	0.0000	0.7720	-0.1090	2.1680	_2021-03-24_	3/24/21 19:46	AM/AP
M1770-15DLX50	0.0000	5.3690	0.0000	0.0000	0.3260	0.0000	2.2070	_2021-03-24_	3/24/21 20:18	AM/AP
M1770-16DLX50	0.0000	6.2110	0.0000	0.0000	0.3400	0.0000	2.2450	_2021-03-24_	3/24/21 20:50	AM/AP
M1770-17DLX10(	0.0000	3.3780	0.0000	0.0000	0.2620	0.0000	1.7250	_2021-03-24_	3/24/21 21:22	AM/AP
CCV	1.9710	2.7990	2.8720	9.2970	2.3210	5.4510	13.6120	_2021-03-24_	3/24/21 21:54	AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-24_	3/24/21 22:26	AM/AP

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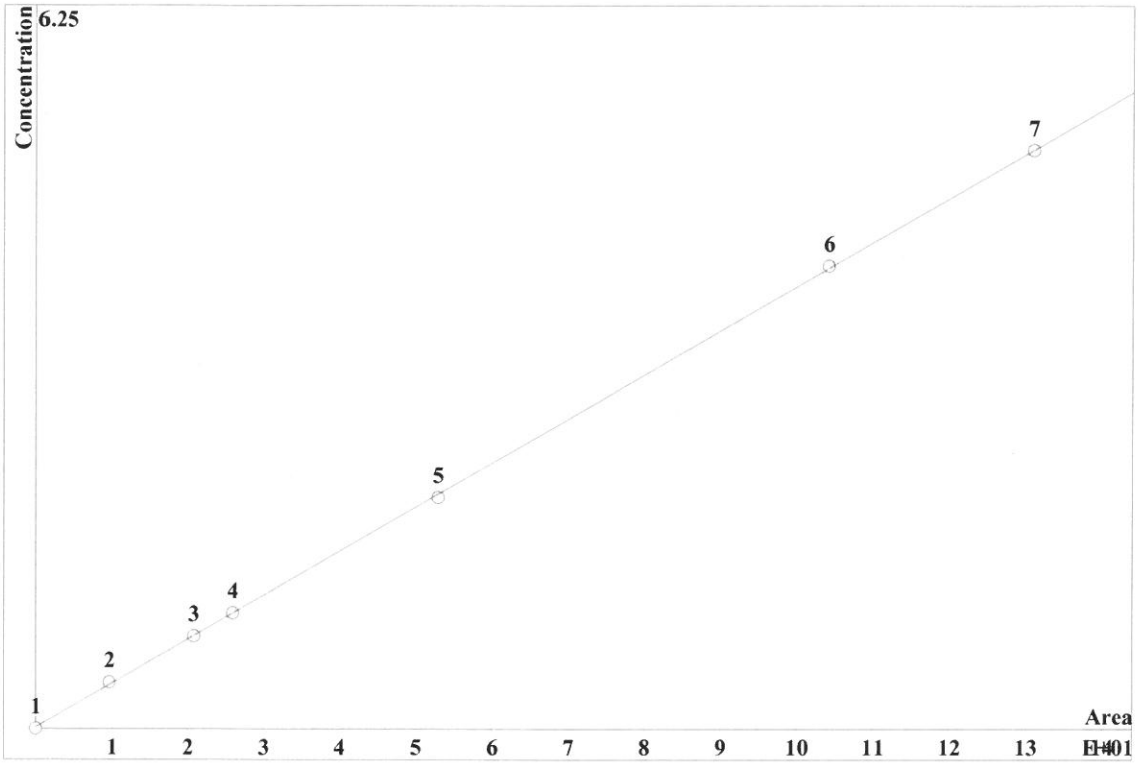
3/09/2021
AM

CALIBRATION OF COMPONENT F-

Method: ANIONS 03-09-21.mtw
Equation: Q = 0.762166·A + 0.260905
RSD: 0.935 %
Correlation coefficient: 0.999952

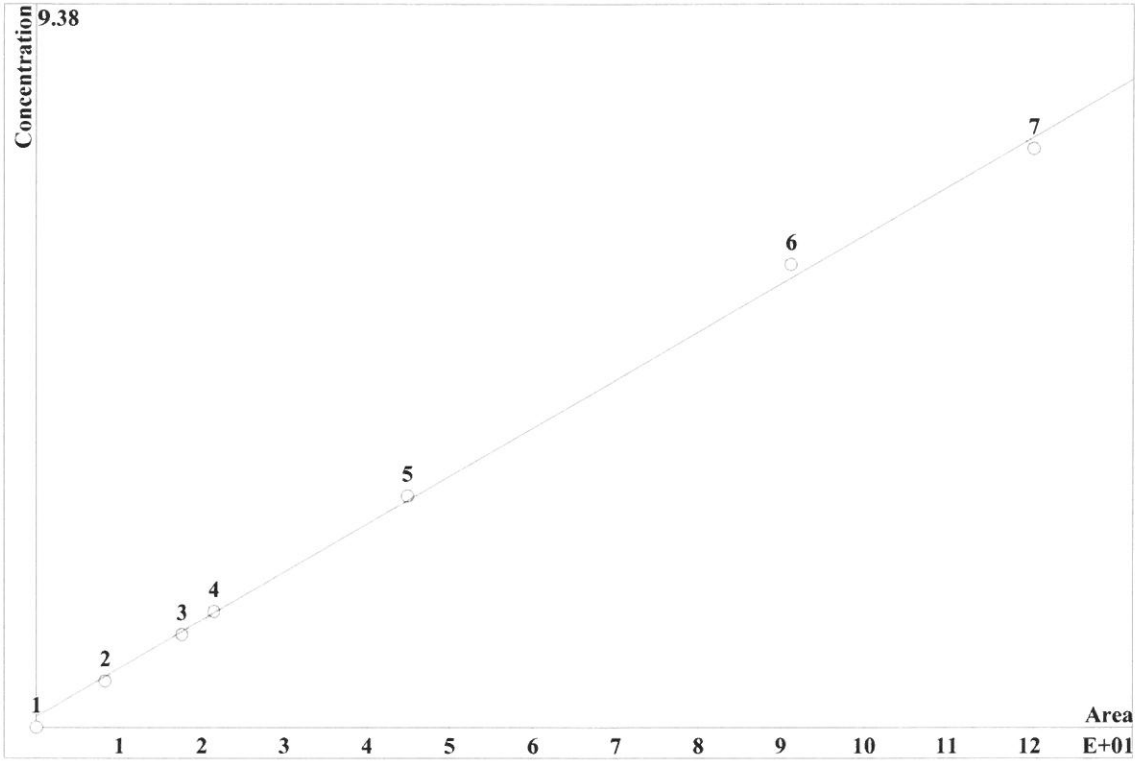


K3 = 0 K2 = 0 K1 = 0.762166 K0 = 0.260905
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.7658	9.617	0.4	20	5.822		Yes
3	1.568	20.8	0.8	20	5.822		Yes
4	2.051	25.9	1	20	5.822		Yes
5	4.191	52.93	2	20	5.822		Yes
6	8.519	104.1	4	20	5.822		Yes
7	10.98	130.9	5	20	5.822		Yes

CALIBRATION OF COMPONENT CL-

Method: ANIONS 03-09-21.mtw
Equation: Q = 1.24598·A + 2.87797
RSD: 3.808 %
Correlation coefficient: 0.999209

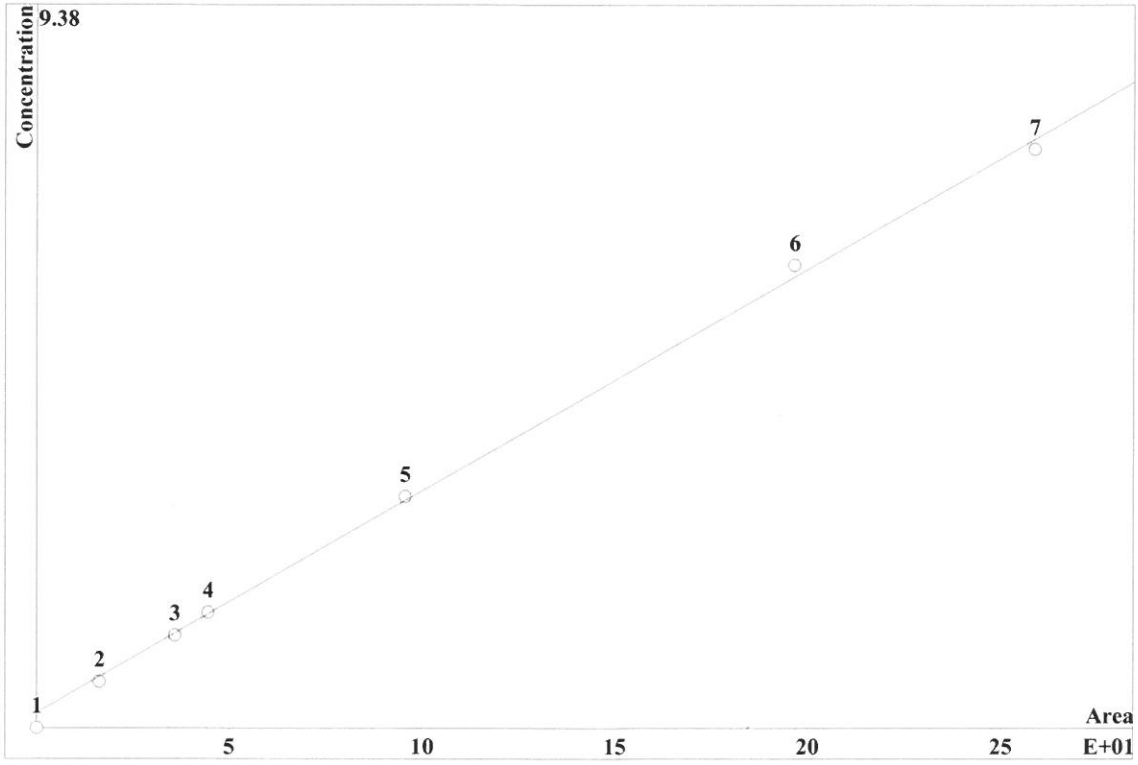


K3 = 0 K2 = 0 K1 = 1.24598 K0 = 2.87797
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.6501	8.293	0.6	20	9.31		Yes
3	1.365	17.65	1.2	20	9.31		Yes
4	1.705	21.51	1.5	20	9.31		Yes
5	3.511	44.9	3	20	9.31		Yes
6	7.471	91.14	6	20	9.31		Yes
7	9.724	120.5	7.5	20	9.31		Yes

CALIBRATION OF COMPONENT NO2

Method: ANIONS 03-09-21.mtw
Equation: Q = 0.574737·A + 3.98858
RSD: 3.346 %
Correlation coefficient: 0.999389

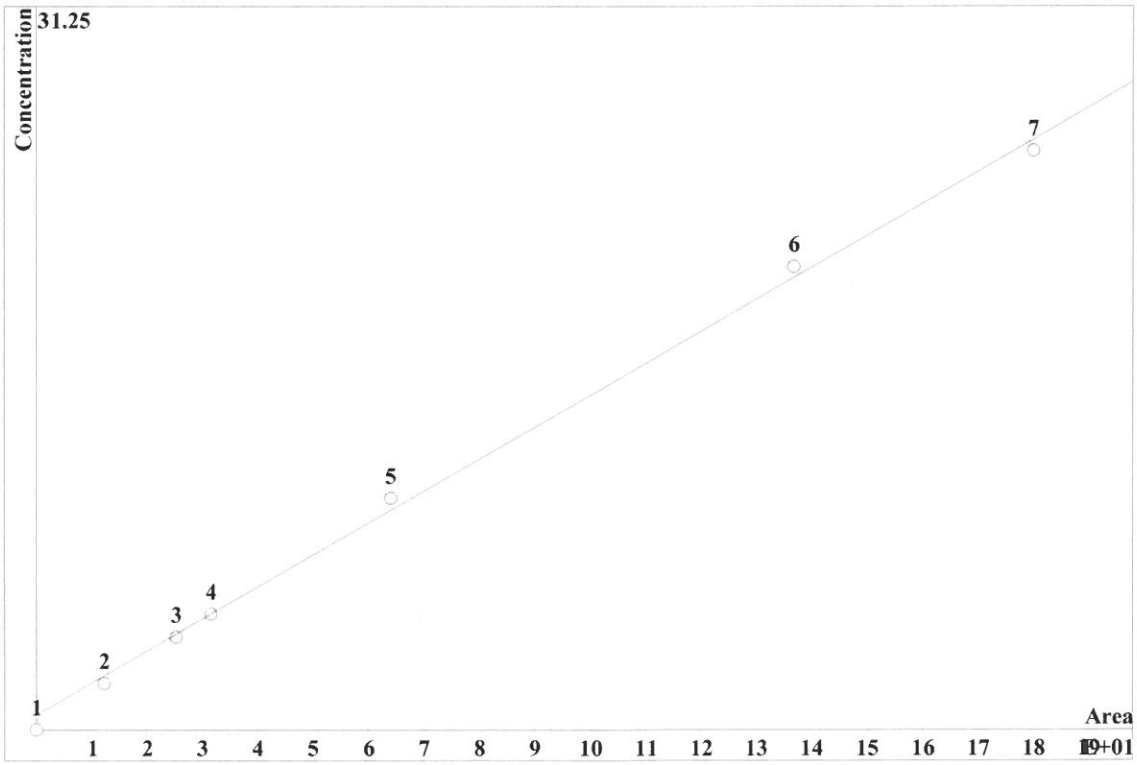


K3 = 0 K2 = 0 K1 = 0.574737 K0 = 3.98858
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	1.027	16.22	0.6	20	11.45	Yes	
3	2.244	35.84	1.2	20	11.45	Yes	
4	2.787	44.5	1.5	20	11.45	Yes	
5	5.661	95.7	3	20	11.45	Yes	
6	11.53	196.5	6	20	11.45	Yes	
7	14.55	258.6	7.5	20	11.45	Yes	

CALIBRATION OF COMPONENT BR-

Method: ANIONS 03-09-21.mtw
Equation: Q = 2.76027·A + 13.1683
RSD: 4.205 %
Correlation coefficient: 0.999036

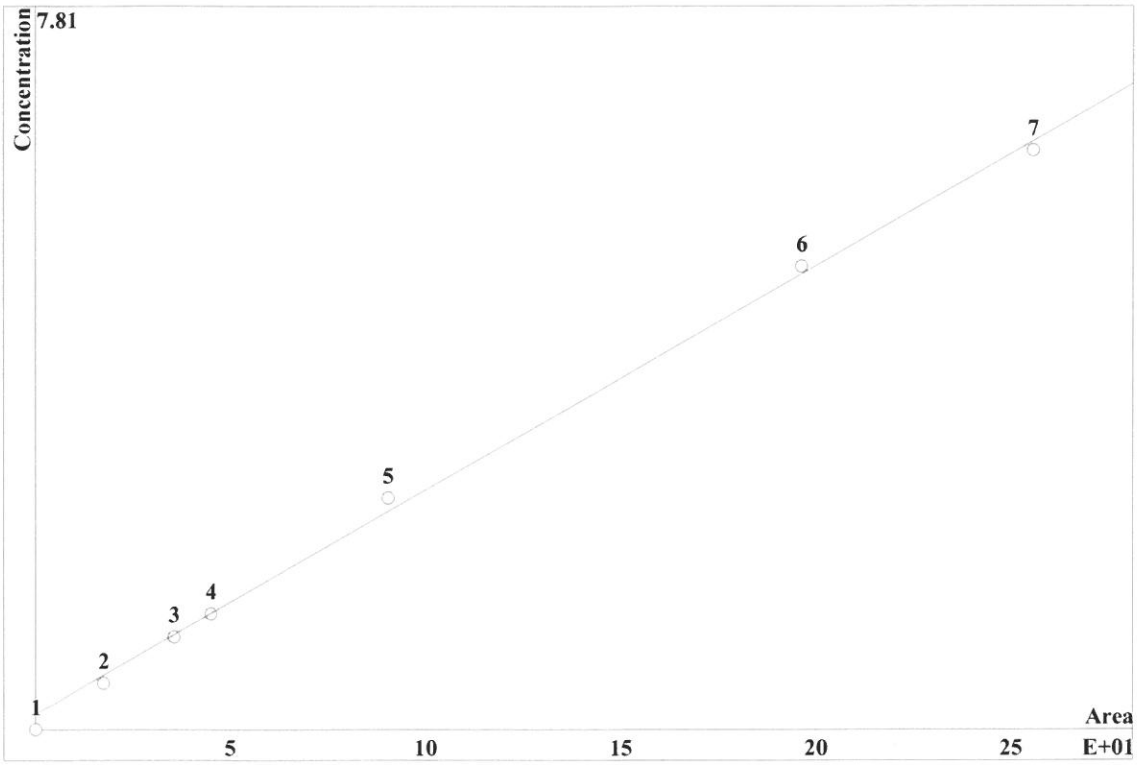


K3 = 0 K2 = 0 K1 = 2.76027 K0 = 13.1683
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	0.6194	12.15	2	20	15.03	Yes	
3	1.323	25.23	4	20	15.03	Yes	
4	1.672	31.54	5	20	15.03	Yes	
5	3.458	63.96	10	20	15.03	Yes	
6	7.336	136.8	20	20	15.03	Yes	
7	9.456	179.9	25	20	15.03	Yes	

CALIBRATION OF COMPONENT NO3

Method: ANIONS 03-09-21.mtw
Equation: Q = 0.483932·A + 3.34418
RSD: 3.902 %
Correlation coefficient: 0.999170

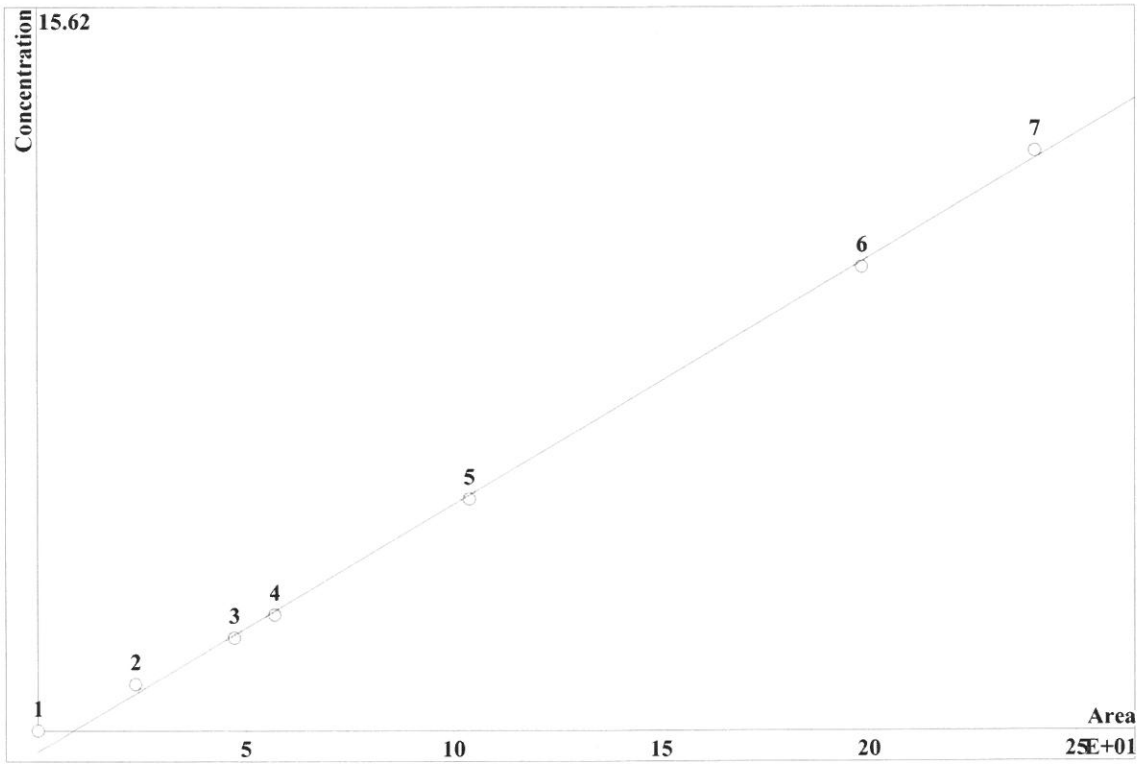


K3 = 0 K2 = 0 K1 = 0.483932 K0 = 3.34418
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	0.7355	17.43	0.5	20	17.65	Yes	
3	1.552	35.52	1	20	17.65	Yes	
4	1.953	45.01	1.25	20	17.65	Yes	
5	4.007	90.53	2.5	20	17.65	Yes	
6	8.482	196.4	5	20	17.65	Yes	
7	10.98	255.6	6.25	20	17.65	Yes	

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 03-09-21.mtw
Equation: Q = 1.06642·A - 9.04155
RSD: 2.884 %
Correlation coefficient: 0.999547

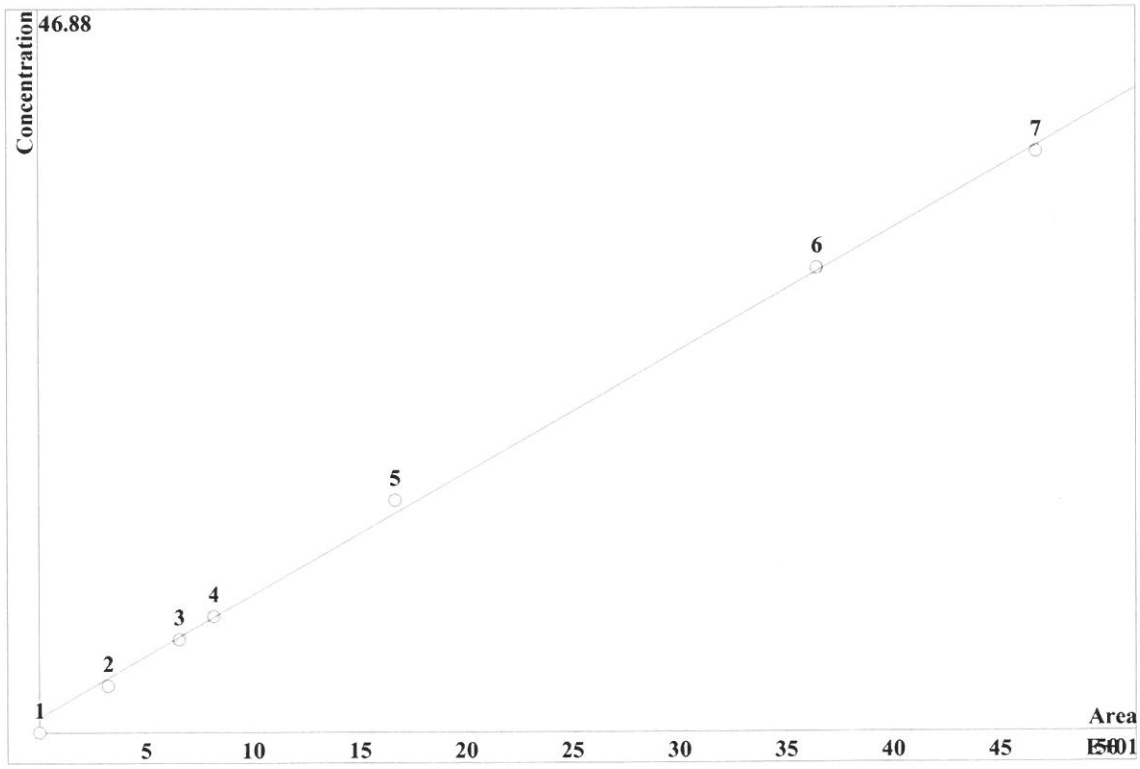


K3 = 0 K2 = 0 K1 = 1.06642 K0 = -9.04155
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	0.6282	23.35	1	20	23.03	Yes	
3	1.326	47.25	2	20	23.03	Yes	
4	1.621	56.87	2.5	20	23.03	Yes	
5	3.08	103.9	5	20	23.03	Yes	
6	6.03	198.4	10	20	23.03	Yes	
7	7.557	240	12.5	20	23.03	Yes	

CALIBRATION OF COMPONENT SO4

Method: ANIONS 03-09-21.mtw
Equation: Q = 1.58171·A + 19.4902
RSD: 3.342 %
Correlation coefficient: 0.999391



K3 = 0 K2 = 0 K1 = 1.58171 K0 = 19.4902
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

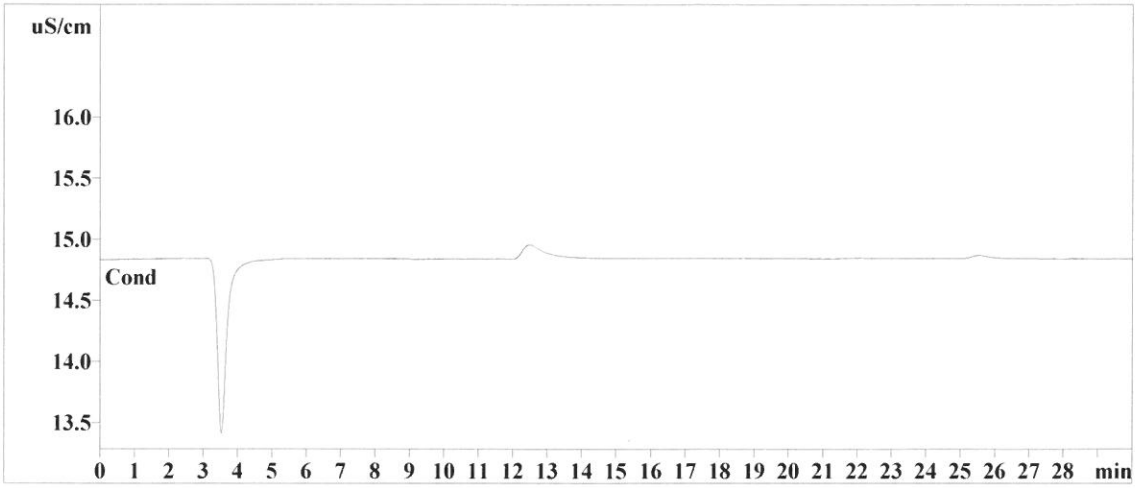
Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	1.068	32.15	3	20	26.99	Yes	
3	2.214	65.75	6	20	26.99	Yes	
4	2.773	81.78	7.5	20	26.99	Yes	
5	5.719	166.8	15	20	26.99	Yes	
6	12.24	364.3	30	20	26.99	Yes	
7	15.74	467.1	37.5	20	26.99	Yes	

Report date: 3/9/2021 2:10:21 PM
Printed by: wet

Ident: STD1
Analysis from: 3/9/2021 9:53:04 AM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73549

SAMPLE:
: AM/AP
Vial number: 2
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
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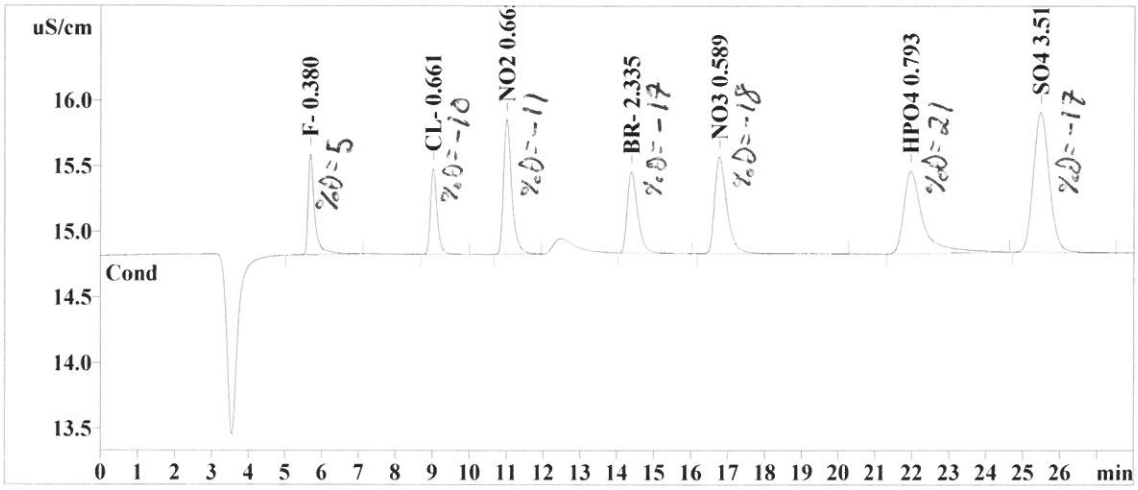
Report date: 3/9/2021 2:10:26 PM
Printed by: wet

Ident: STD2
Analysis from: 3/9/2021 10:25:57 AM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73550

SAMPLE:
: AM/AP
Vial number: 3
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.69	0.163	0.77	13.93	9.617	8.07	0.
2	9.01	0.189	0.65	11.83	8.293	6.96	0.
3	11.00	0.230	1.03	18.68	16.217	13.60	0.
4	14.39	0.290	0.62	11.27	12.146	10.19	0.
5	16.76	0.343	0.73	13.37	17.428	14.62	0.
6	21.96	0.485	0.63	11.43	23.346	19.59	0.
7	25.47	0.456	1.07	19.42	32.154	26.98	0.
7	28.00	0.308	5.49	99.93	119.201	100.00	0.

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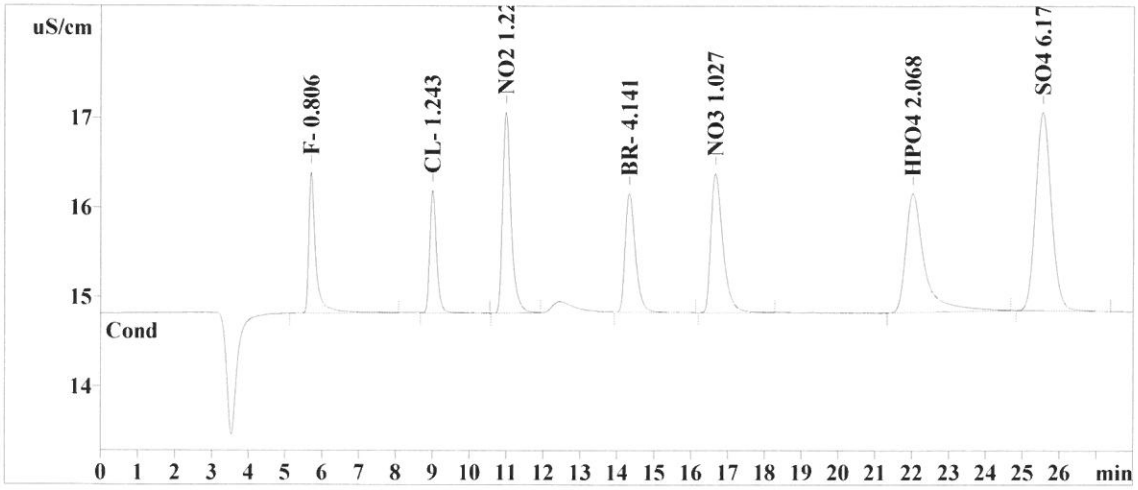
Report date: 3/9/2021 2:10:32 PM
Printed by: wet

Ident: STD3
Analysis from: 3/9/2021 11:04:02 AM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73551

SAMPLE:
: AM/AP
Vial number: 4
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.70	0.167	1.57	13.53	20.801	8.39	0.
2	9.00	0.191	1.36	11.77	17.647	7.11	0.
3	10.99	0.233	2.24	19.35	35.842	14.45	0.
4	14.32	0.284	1.32	11.41	25.232	10.17	0.
5	16.65	0.339	1.55	13.39	35.517	14.32	0.
6	22.02	0.473	1.33	11.43	47.255	19.05	0.
7	25.54	0.453	2.21	19.09	65.751	26.51	0.
7	28.00	0.306	11.59	99.98	248.045	100.00	0.

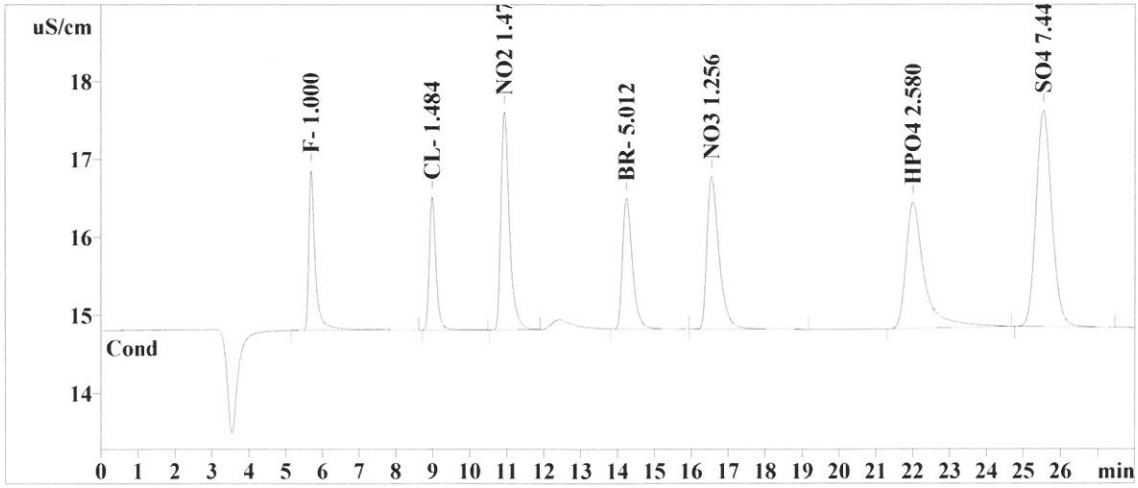
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:10:43 PM
Printed by: wet

Ident: STD4
Analysis from: 3/9/2021 11:34:57 AM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73552

SAMPLE:
: AM/AP
Vial number: 5
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.69	0.163	2.05	14.08	25.900	8.43	0.
2	8.98	0.187	1.70	11.71	21.511	7.00	0.
3	10.93	0.233	2.79	19.14	44.499	14.49	0.
4	14.23	0.281	1.67	11.48	31.544	10.27	0.
5	16.54	0.340	1.95	13.41	45.008	14.66	0.
6	22.00	0.468	1.62	11.13	56.868	18.52	0.
7	25.53	0.450	2.77	19.04	81.777	26.63	0.
7	28.00	0.303	14.56	99.99	307.107	100.00	0.

This report has been created by IC Net
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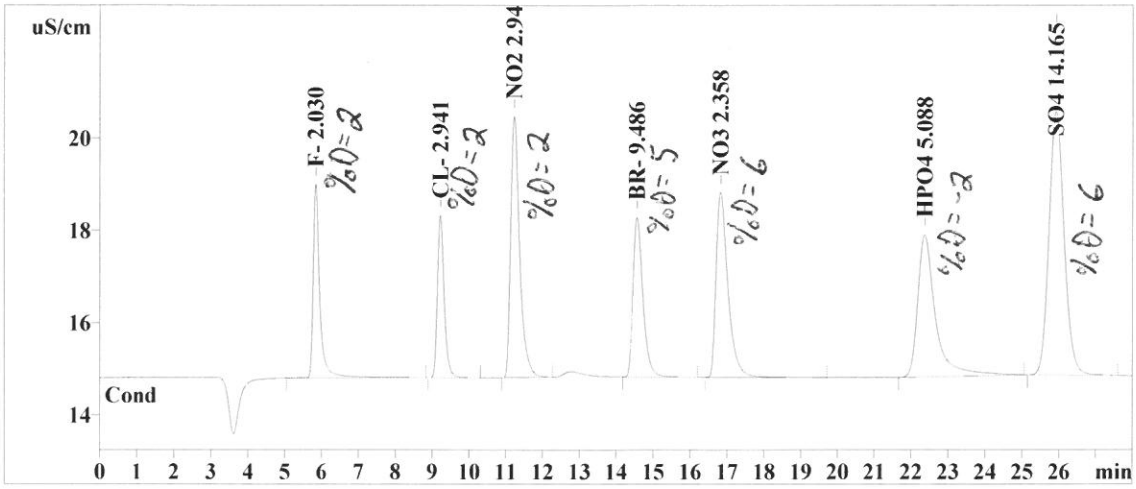
Report date: 3/9/2021 2:10:49 PM
Printed by: wet

Ident: STD5
Analysis from: 3/9/2021 12:05:51 PM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73553

SAMPLE:
: AM/AP
Vial number: 6
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.84	0.166	4.19	14.14	52.926	8.55	0.
2	9.22	0.190	3.51	11.85	44.902	7.26	0.
3	11.22	0.246	5.66	19.11	95.698	15.47	0.
4	14.56	0.276	3.46	11.67	63.963	10.34	0.
5	16.81	0.333	4.01	13.52	90.525	14.63	0.
6	22.36	0.456	3.08	10.39	103.905	16.79	0.
7	25.91	0.445	5.72	19.30	166.787	26.96	0.
7	28.00	0.302	29.63	99.99	618.707	100.00	0.

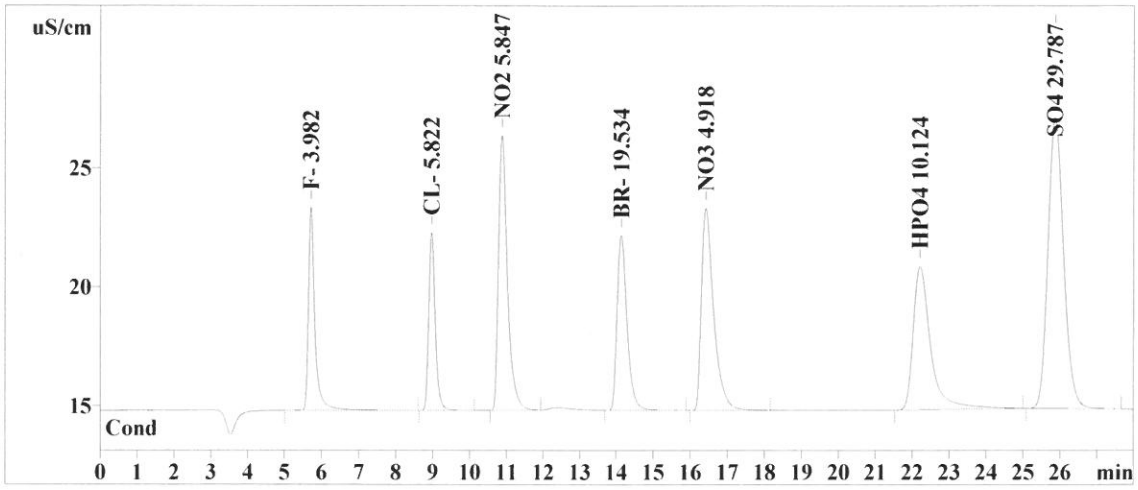
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:10:54 PM
Printed by: wet

Ident: STD6
Analysis from: 3/9/2021 12:36:46 PM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73554

SAMPLE:
: AM/AP
Vial number: 7
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.71	0.162	8.52	13.83	104.142	8.09	0.
2	8.96	0.180	7.47	12.12	91.142	7.08	0.
3	10.87	0.249	11.53	18.72	196.516	15.26	0.
4	14.13	0.279	7.34	11.91	136.765	10.62	0.
5	16.41	0.341	8.48	13.77	196.354	15.25	0.
6	22.21	0.453	6.03	9.79	198.352	15.40	0.
7	25.85	0.454	12.24	19.87	364.317	28.29	0.
7	28.00	0.303	61.61	100.00	1287.589	100.00	0.

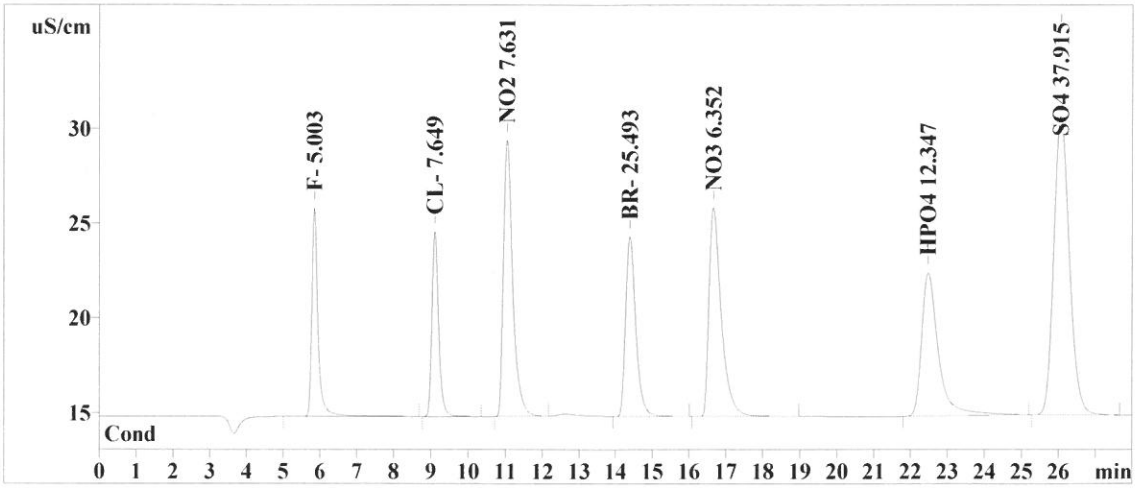
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:11:00 PM
Printed by: wet

Ident: STD7
Analysis from: 3/9/2021 1:07:41 PM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73555

SAMPLE:
: AM/AP
Vial number: 8
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.85	0.162	10.98	13.90	130.942	7.92	0.
2	9.10	0.184	9.72	12.31	120.469	7.29	0.
3	11.04	0.261	14.55	18.42	258.600	15.65	0.
4	14.38	0.285	9.46	11.97	179.940	10.89	0.
5	16.66	0.342	10.98	13.91	255.618	15.47	0.
6	22.48	0.441	7.56	9.57	240.037	14.52	0.
7	26.05	0.454	15.74	19.92	467.090	28.26	0.
7	28.00	0.304	78.99	100.00	1652.696	100.00	0.

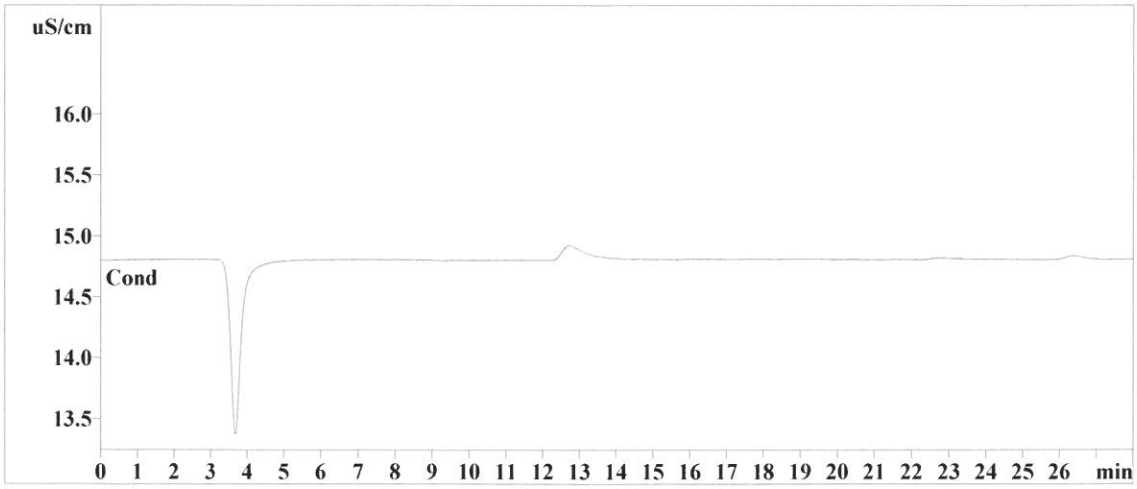
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:48:46 PM
Printed by: wet

Ident: ICB
Analysis from: 3/9/2021 2:12:46 PM
File: _2021-03-09_ Last save: 3/9/2021 2:48:32 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73557

SAMPLE:
: AM/AP
Vial number: 10
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

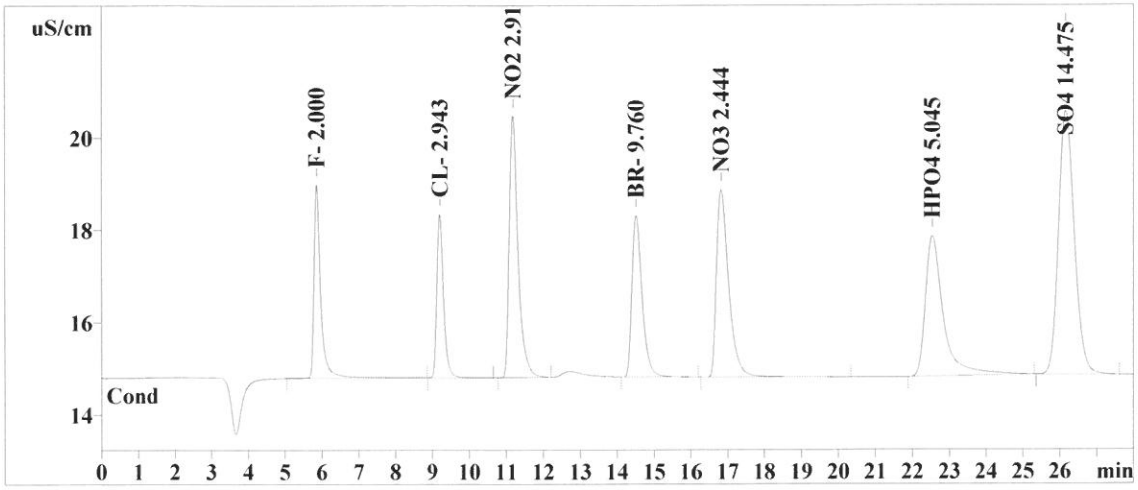
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:47:19 PM
Printed by: wet

Ident: ICV
Analysis from: 3/9/2021 1:41:40 PM
File: _2021-03-09_ Last save: 3/9/2021 2:47:14 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73556

SAMPLE:
: AM/AP
Vial number: 9
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.85	0.164	4.18	14.09	52.139	8.34	0.
2	9.20	0.189	3.53	11.90	44.930	7.18	0.
3	11.17	0.243	5.66	19.09	94.592	15.12	0.
4	14.50	0.283	3.49	11.76	65.945	10.54	0.
5	16.81	0.342	4.05	13.66	94.112	15.05	0.
6	22.53	0.456	3.04	10.25	103.085	16.48	0.
7	26.16	0.457	5.71	19.25	170.704	27.29	0.
7	28.00	0.305	29.65	99.99	625.507	100.00	0.

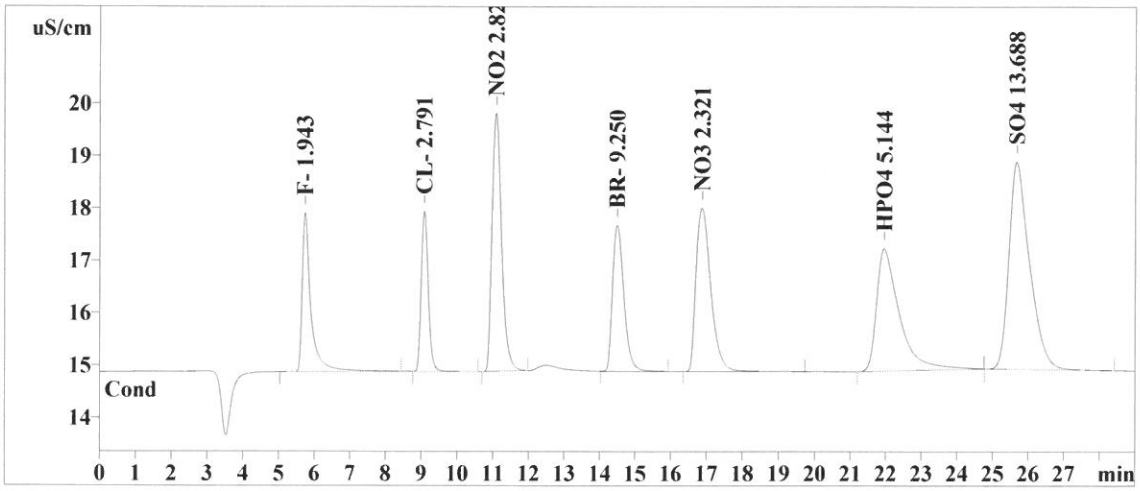
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:37:14 PM
Printed by: wet

Ident: CCV
Analysis from: 3/23/2021 9:38:39 AM
File: _2021-03-23_ Last save: 3/23/2021 10:07:28 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73769

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.74	0.210	3.02	13.05	50.649	8.42	0.
2	9.08	0.214	3.05	13.15	42.491	7.07	0.
3	11.08	0.282	4.92	21.23	91.297	15.18	0.
4	14.48	0.344	2.78	11.98	62.253	10.35	0.
5	16.86	0.437	3.11	13.43	89.004	14.80	0.
6	21.95	0.636	2.33	10.06	104.955	17.45	0.
7	25.66	0.612	3.96	17.08	160.757	26.73	0.
7	29.00	0.391	23.18	99.99	601.406	100.00	0.

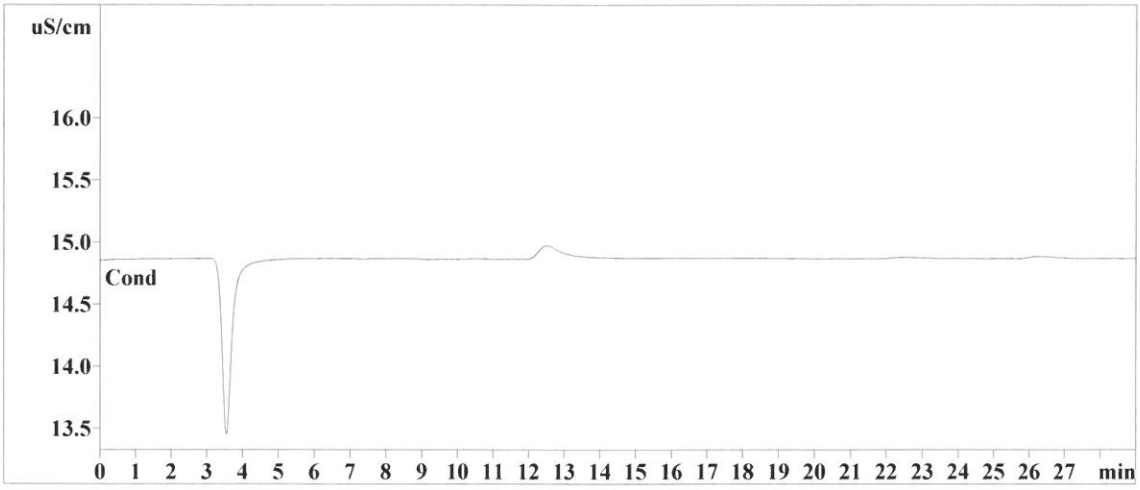
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:37:24 PM
Printed by: wet

Ident: CCB
Analysis from: 3/23/2021 10:18:42 AM
File: _2021-03-23_ Last save: 3/23/2021 10:47:30 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73770

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

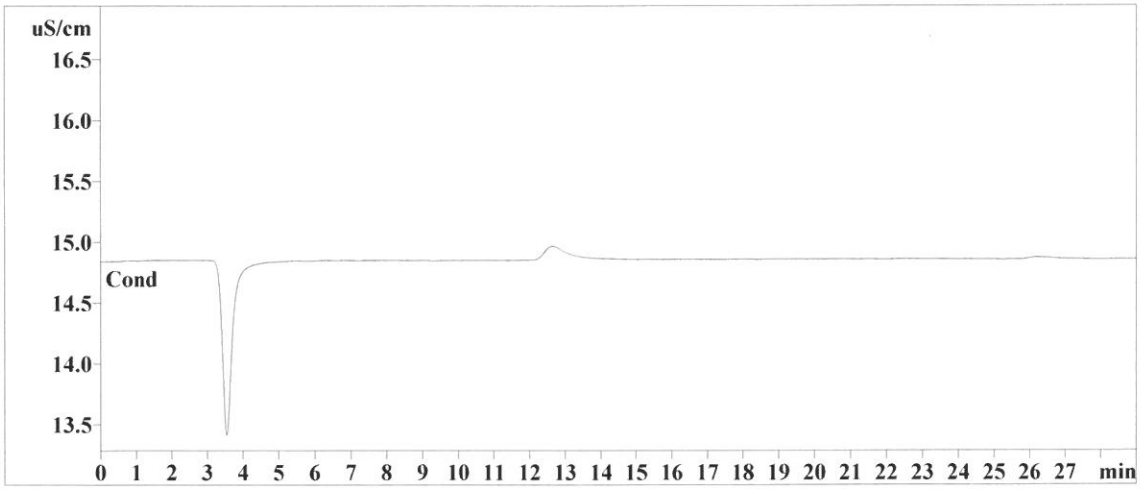
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:37:30 PM
Printed by: wet

Ident: LB113629BLW
Analysis from: 3/23/2021 10:50:36 AM
File: _2021-03-23_ Last save: 3/23/2021 11:19:24 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73771

SAMPLE:
: AM/AP
Vial number: 13
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

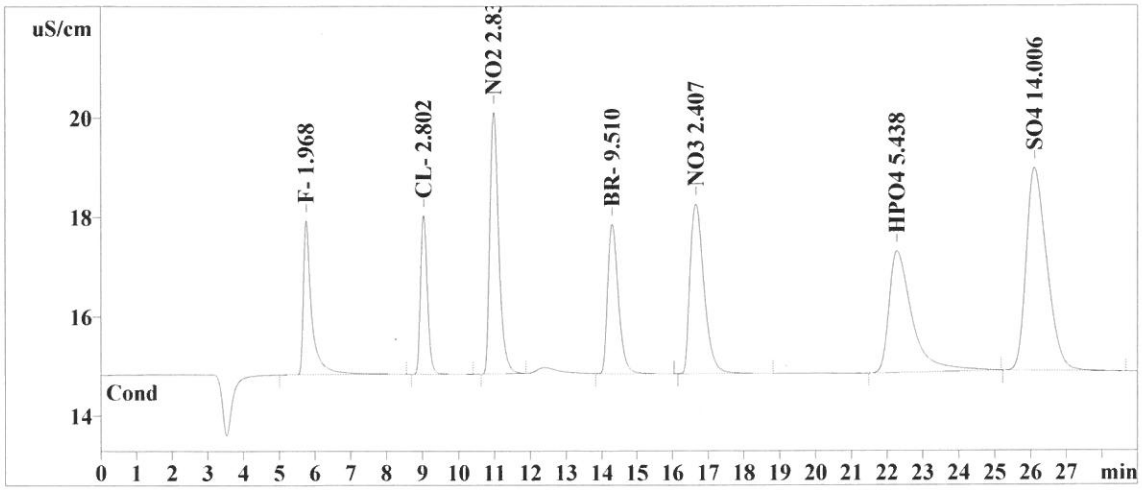
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:37:36 PM
Printed by: wet

Ident: LB113629BSW
Analysis from: 3/23/2021 11:22:30 AM
File: _2021-03-23_ Last save: 3/23/2021 11:51:18 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73772

SAMPLE:
: AM/AP
Vial number: 14
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.76	0.205	3.10	12.64	51.307	8.31	0.
2	9.03	0.204	3.19	13.03	42.668	6.91	0.
3	10.97	0.262	5.26	21.48	91.569	14.83	0.
4	14.29	0.326	3.00	12.26	64.136	10.39	0.
5	16.65	0.415	3.41	13.93	92.579	14.99	0.
6	22.28	0.634	2.45	9.99	110.460	17.89	0.
7	26.10	0.622	4.08	16.65	164.782	26.69	0.
7	29.00	0.381	24.49	99.99	617.502	100.00	0.

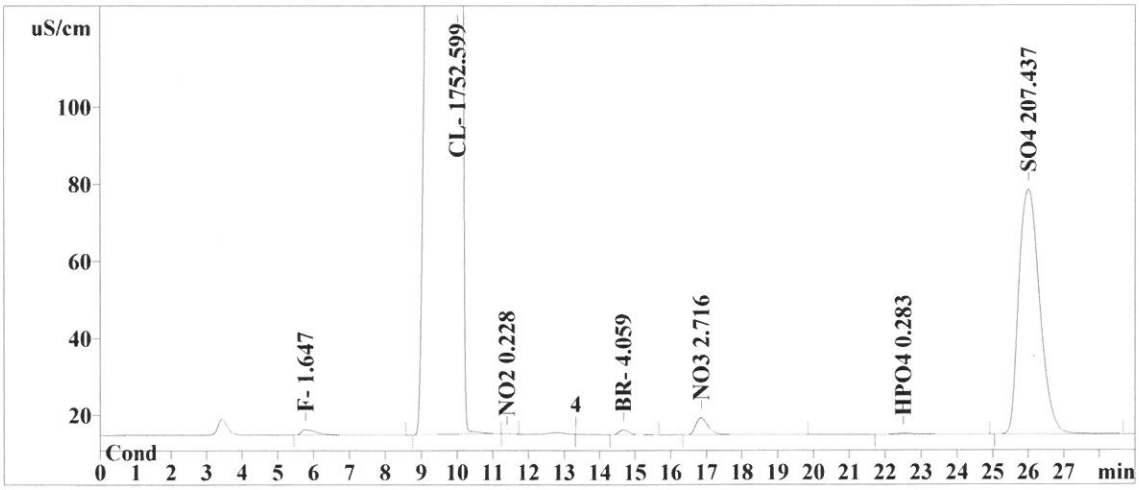
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:37:45 PM
Printed by: wet

Ident: M1770-02
Analysis from: 3/23/2021 11:54:24 AM
File: _2021-03-23_ Last save: 3/23/2021 12:23:12 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73773

SAMPLE:
: AM/AP
Vial number: 15
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.78	0.446	1.39	0.19	42.869	0.14	0.
2	10.00	0.762	647.87	90.12	28129.865	90.95	0.
3	11.41	0.242	0.07	0.01	0.980	0.00	0.
4	14.67	0.298	1.28	0.18	24.641	0.08	0.
5	16.85	0.365	4.38	0.61	105.335	0.34	0.
6	22.50	0.747	0.25	0.03	13.786	0.04	0.
7	26.00	0.650	63.49	8.83	2610.622	8.44	0.
7	29.00	0.501	718.72	99.97	30928.098	100.00	0.

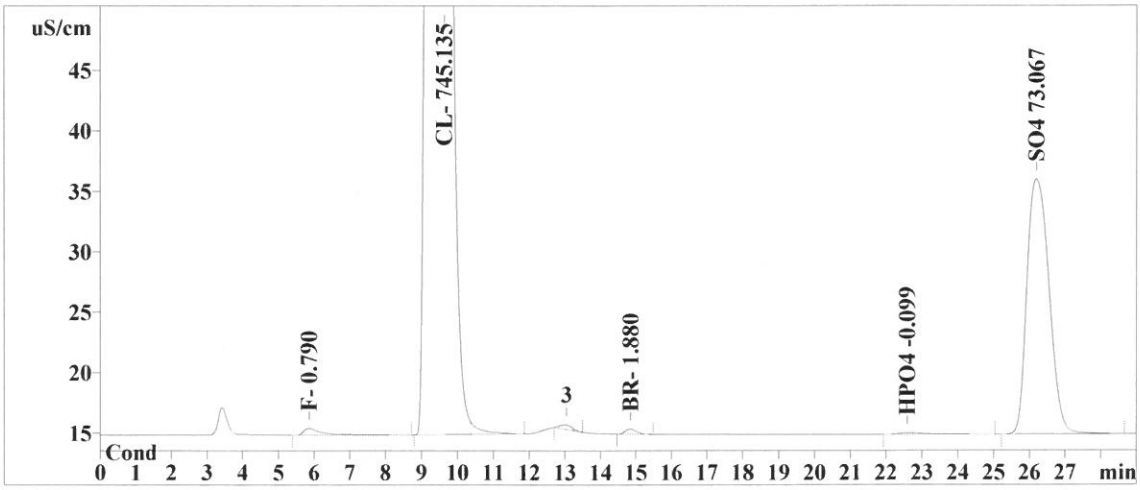
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:38:15 PM
Printed by: wet

Ident: M1770-03
Analysis from: 3/23/2021 12:26:18 PM
File: _2021-03-23_ Last save: 3/24/2021 3:38:16 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73774

SAMPLE:
: AM/AP
Vial number: 16
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.86	0.458	0.55	0.12	20.401	0.16	0.
2	9.62	0.463	420.41	94.88	11958.367	92.59	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	14.85	0.344	0.41	0.09	8.852	0.07	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	22.60	0.815	0.11	0.02	6.628	0.05	0.
7	26.18	0.689	21.09	4.76	911.574	7.06	0.
7	29.00	0.395	442.57	99.88	12905.821	99.93	0.

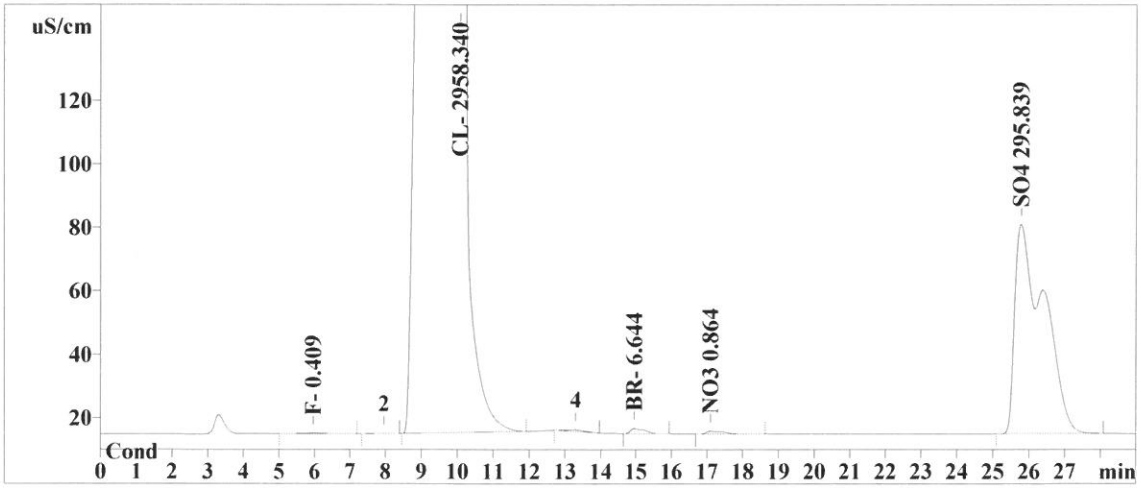
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:38:50 PM
Printed by: wet

Ident: M1770-06
Analysis from: 3/23/2021 12:58:13 PM
File: _2021-03-23_ Last save: 3/24/2021 3:38:46 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73775

SAMPLE:
: AM/AP
Vial number: 19
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.97	0.617	0.23	0.03	10.380	0.02	0.
2	10.06	1.050	787.05	91.91	47484.038	92.53	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	14.96	0.476	1.60	0.19	43.369	0.08	0.
5	17.10	0.570	0.86	0.10	28.782	0.06	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.77	1.067	66.01	7.71	3728.424	7.27	0.
7	29.00	0.540	855.74	99.93	51294.994	99.96	0.

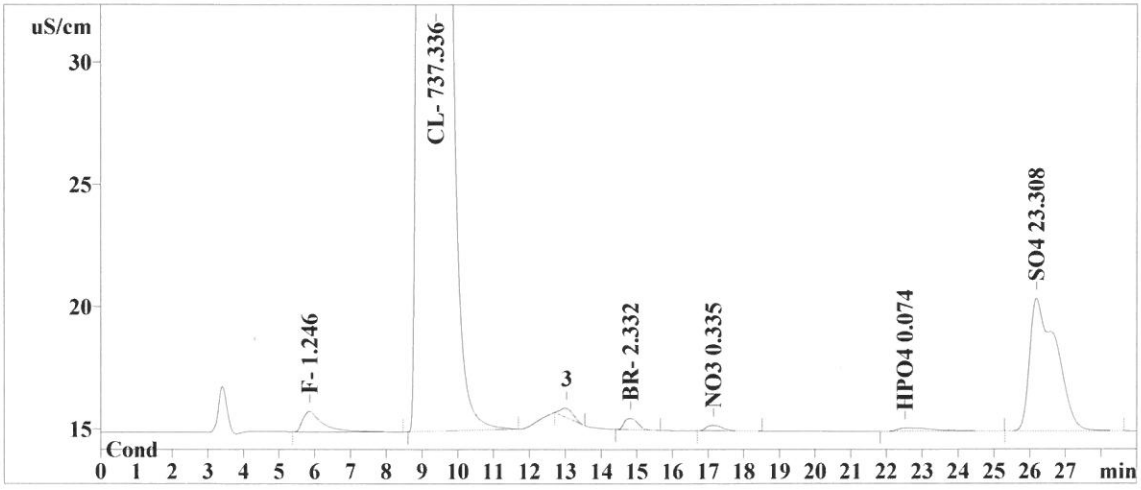
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:39:01 PM
Printed by: wet

Ident: M1770-07
Analysis from: 3/23/2021 1:30:07 PM
File: _2021-03-23_ Last save: 3/23/2021 1:58:56 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73776

SAMPLE:
: AM/AP
Vial number: 20
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.86	0.524	0.84	0.20	32.364	0.27	0.
2	9.38	0.449	415.62	98.20	11833.173	97.10	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	14.83	0.429	0.45	0.11	12.126	0.10	0.
5	17.15	0.507	0.22	0.05	6.937	0.06	0.
6	22.53	1.051	0.13	0.03	9.869	0.08	0.
7	26.19	0.904	5.42	1.28	282.392	2.32	0.
7	29.00	0.552	422.68	99.86	12176.861	99.92	0.

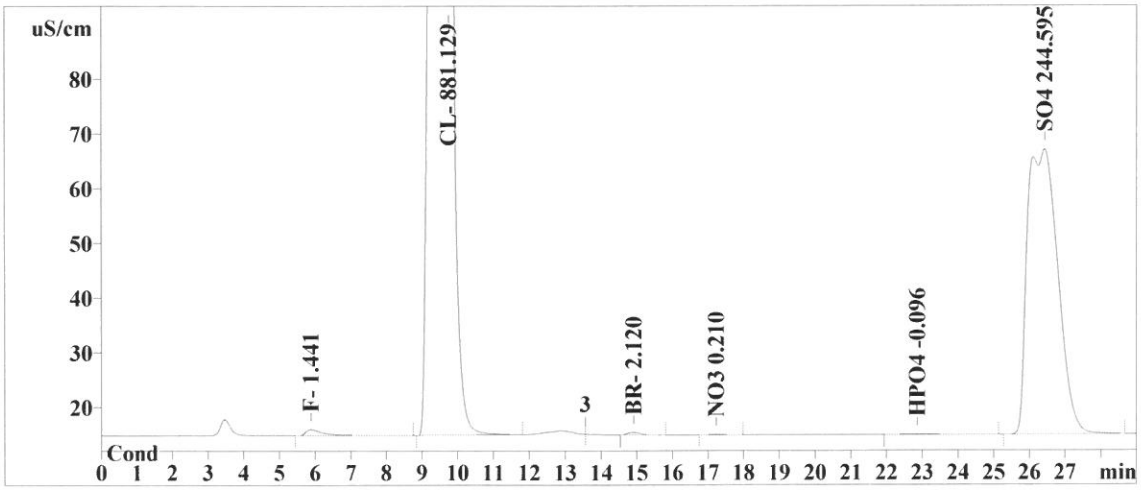
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:39:14 PM
Printed by: wet

Ident: M1770-08
Analysis from: 3/23/2021 2:02:01 PM
File: _2021-03-23_ Last save: 3/23/2021 2:30:50 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73777

SAMPLE:
: AM/AP
Vial number: 21
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.88	0.462	1.09	0.21	37.469	0.22	0.
2	9.74	0.506	464.51	89.61	14141.296	81.84	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	14.91	0.397	0.43	0.08	10.587	0.06	0.
5	17.25	0.476	0.06	0.01	1.752	0.01	0.
6	22.87	1.114	0.09	0.02	6.674	0.04	0.
7	26.42	0.967	52.12	10.05	3080.469	17.83	0.
7	29.00	0.560	518.29	99.98	17278.248	100.00	0.

This report has been created by IC Net
METROHM LTD

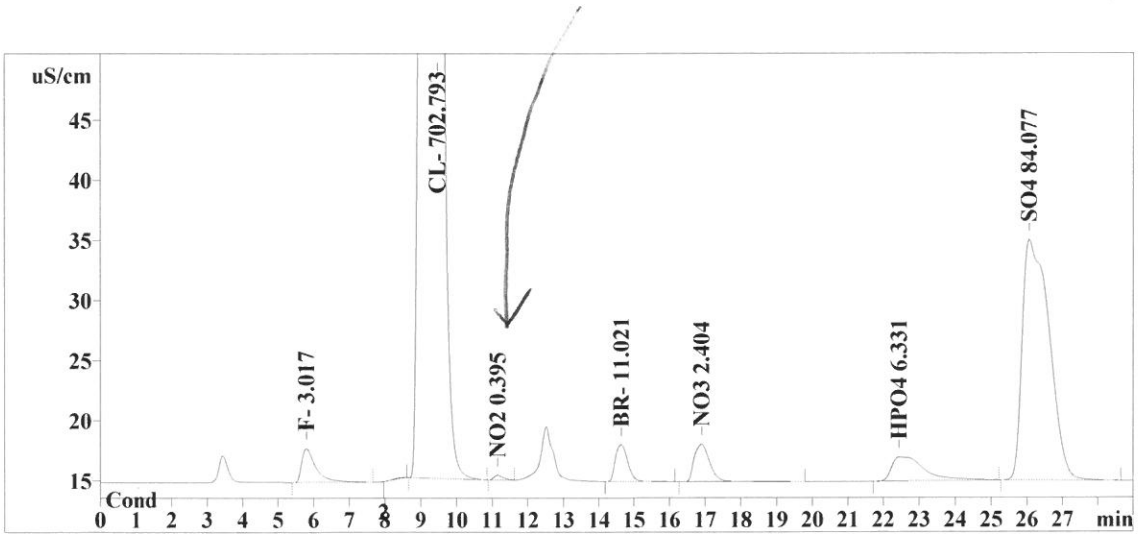
Report date: 3/24/2021 3:39:39 PM
Printed by: wet

Ident: M1770-04MS
Analysis from: 3/23/2021 2:33:55 PM
File: _2021-03-23_ Last save: 3/23/2021 3:02:44 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73778

SAMPLE:
: AM/AP
Vial number: 17
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000

Before integration:
Peaks not integrated properly
03/24/2021
AM



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.80	0.383	2.81	0.62	78.833	0.62	0.
2	9.45	0.439	422.13	93.06	11278.705	88.73	0.
3	11.15	0.263	0.40	0.09	6.821	0.05	0.
4	14.63	0.393	3.06	0.67	75.082	0.59	0.
5	16.89	0.474	3.12	0.69	92.426	0.73	0.
6	22.44	0.920	2.01	0.44	127.215	1.00	0.
7	26.06	0.863	20.01	4.41	1050.797	8.27	0.
7	29.00	0.534	453.53	99.98	12709.878	99.99	0.

This report has been created by IC Net
METROHM LTD

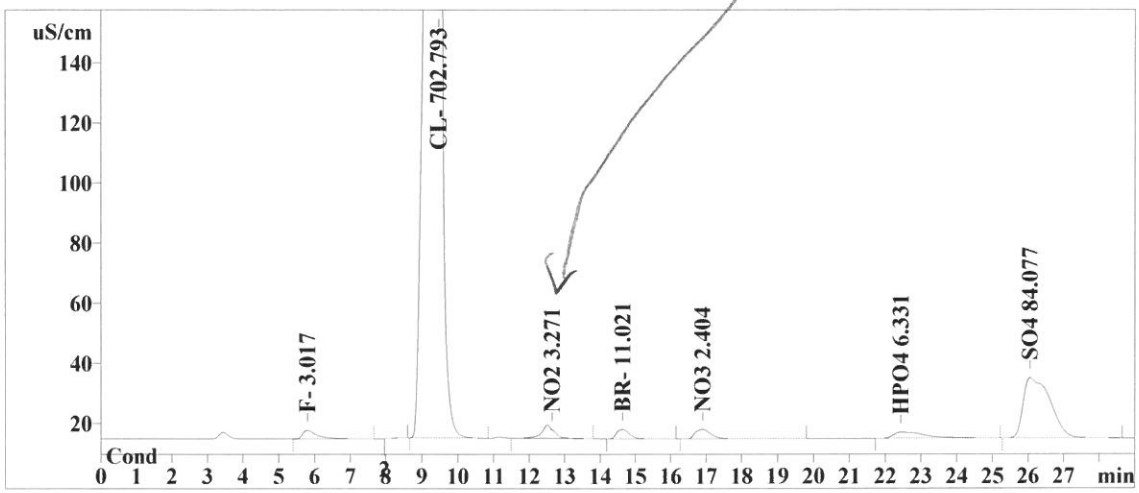
Reviewed By:apatel
On:4/1/2021 1:38:23 PM
Inst Id :IC-1
LB :LB113629

Report date: 3/24/2021 3:41:36 PM
Printed by: wet

Ident: M1770-04MS
Analysis from: 3/23/2021 2:33:55 PM
File: _2021-03-23_ Last save: 3/24/2021 3:41:28 PM
Manual peaks!
Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73778

SAMPLE:
: AM/AP
Vial number: 17
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000

After Manual Integration
03/24/2021
AM



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.80	0.383	2.81	0.62	78.833	0.62	0.
2	9.45	0.439	422.13	92.55	11278.705	88.04	0.
3	12.64	0.456	2.88	0.63	106.884	0.83	0.
4	14.63	0.393	3.06	0.67	75.082	0.59	0.
5	16.89	0.474	3.12	0.68	92.426	0.72	0.
6	22.44	0.920	2.01	0.44	127.215	0.99	0.
7	26.06	0.863	20.01	4.39	1050.797	8.20	0.
7	29.00	0.561	456.02	99.98	12809.942	99.99	0.

This report has been created by IC Net
METROHM LTD

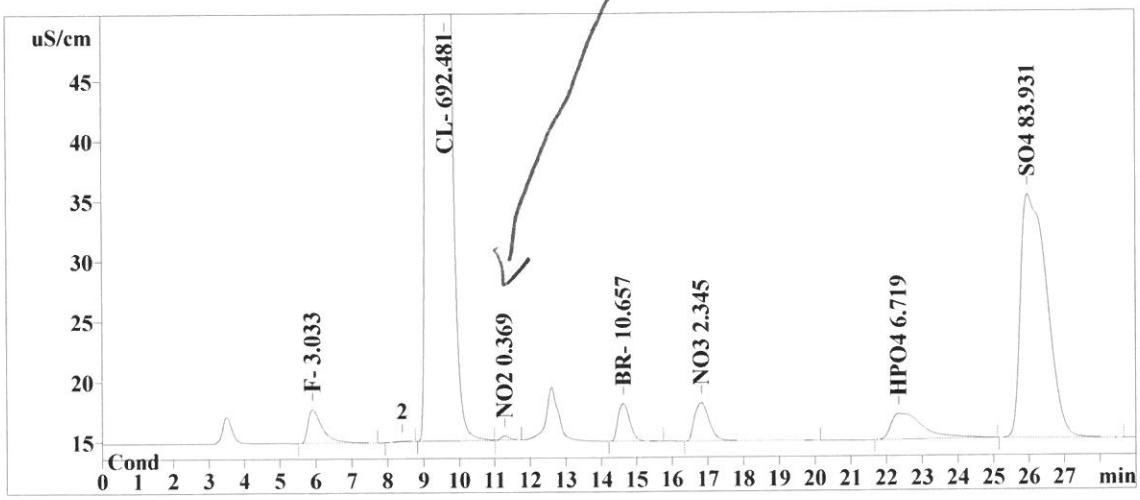
Report date: 3/24/2021 3:41:46 PM
Printed by: wet

Ident: M1770-05MSD
Analysis from: 3/23/2021 3:05:49 PM
File: _2021-03-23_ Last save: 3/23/2021 3:34:38 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73779

SAMPLE:
: AM/AP
Vial number: 18
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000

Before Integration:
Peaks not integrated properly
C3/24/2021
AM



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.92	0.389	2.81	0.62	79.245	0.63	0.
2	9.62	0.434	421.50	92.92	11113.183	88.58	0.
3	11.29	0.257	0.35	0.08	5.900	0.05	0.
4	14.62	0.370	3.13	0.69	72.443	0.58	0.
5	16.81	0.450	3.17	0.70	90.002	0.72	0.
6	22.35	0.904	2.14	0.47	134.493	1.07	0.
7	25.97	0.844	20.22	4.46	1048.953	8.36	0.
7	29.00	0.521	453.32	99.94	12544.219	99.99	0.

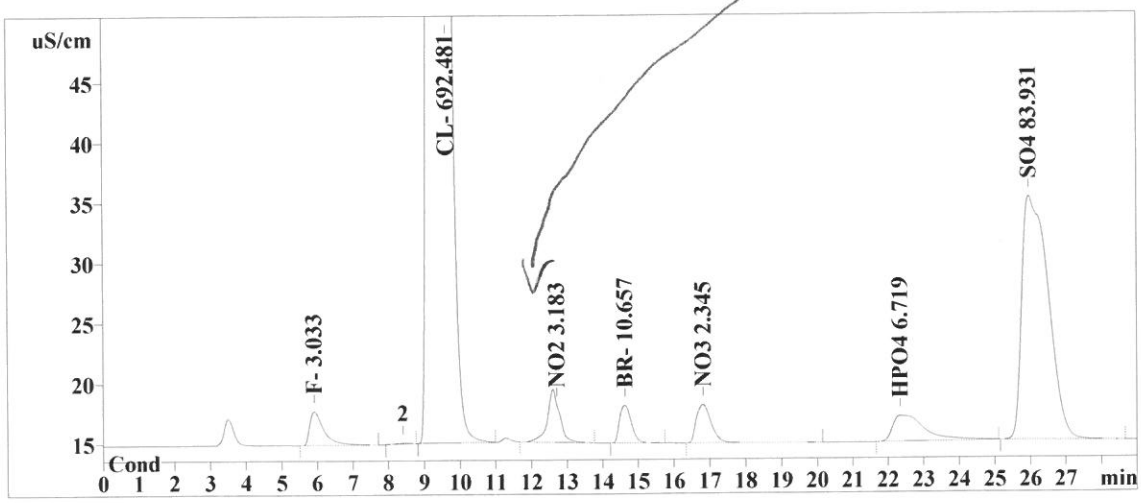
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:42:31 PM
Printed by: wet

Ident: M1770-05MSD
Analysis from: 3/23/2021 3:05:49 PM
File: _2021-03-23_ Last save: 3/24/2021 3:42:28 PM
Manual peaks!
Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73779

SAMPLE:
: AM/AP
Vial number: 18
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000

After 03/24/2021 AM



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.92	0.389	2.81	0.62	79.245	0.63	0.
2	9.62	0.434	421.50	92.36	11113.183	87.90	0.
3	12.71	0.423	3.11	0.68	103.825	0.82	0.
4	14.62	0.370	3.13	0.68	72.443	0.57	0.
5	16.81	0.450	3.17	0.70	90.002	0.71	0.
6	22.35	0.904	2.14	0.47	134.493	1.06	0.
7	25.97	0.844	20.22	4.43	1048.953	8.30	0.
7	29.00	0.545	456.08	99.94	12642.144	99.99	0.

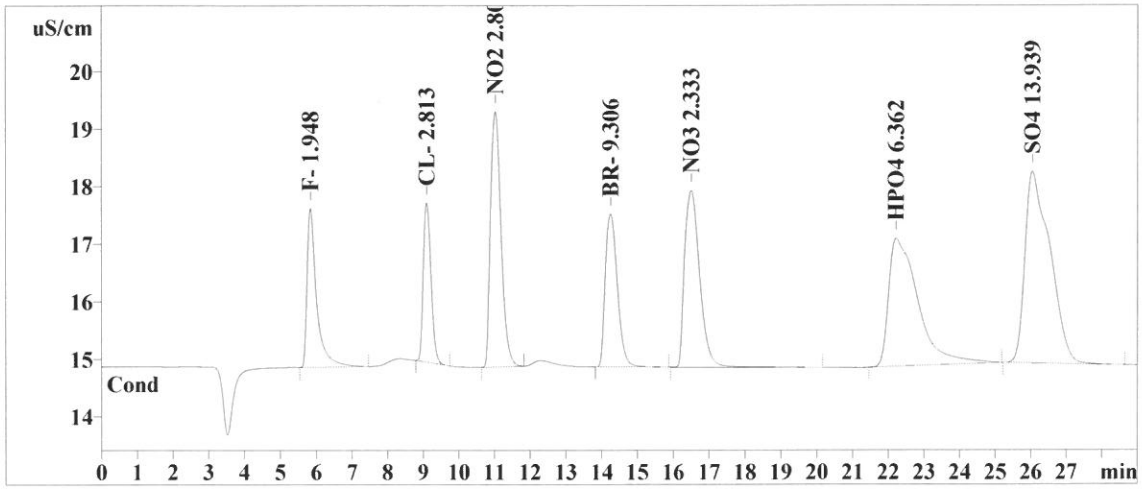
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:42:38 PM
Printed by: wet

Ident: CCV
Analysis from: 3/23/2021 3:37:43 PM
File: _2021-03-23_ Last save: 3/23/2021 4:08:18 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73780

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.83	0.243	2.75	12.97	50.775	8.08	0.
2	9.09	0.244	2.76	13.00	42.852	6.82	0.
3	11.02	0.320	4.44	20.89	90.822	14.45	0.
4	14.24	0.369	2.65	12.49	62.659	9.97	0.
5	16.49	0.451	3.07	14.46	89.493	14.24	0.
6	22.21	0.853	2.23	10.48	127.796	20.34	0.
7	26.04	0.821	3.33	15.70	163.934	26.09	0.
7	29.00	0.471	21.23	100.00	628.330	100.00	0.

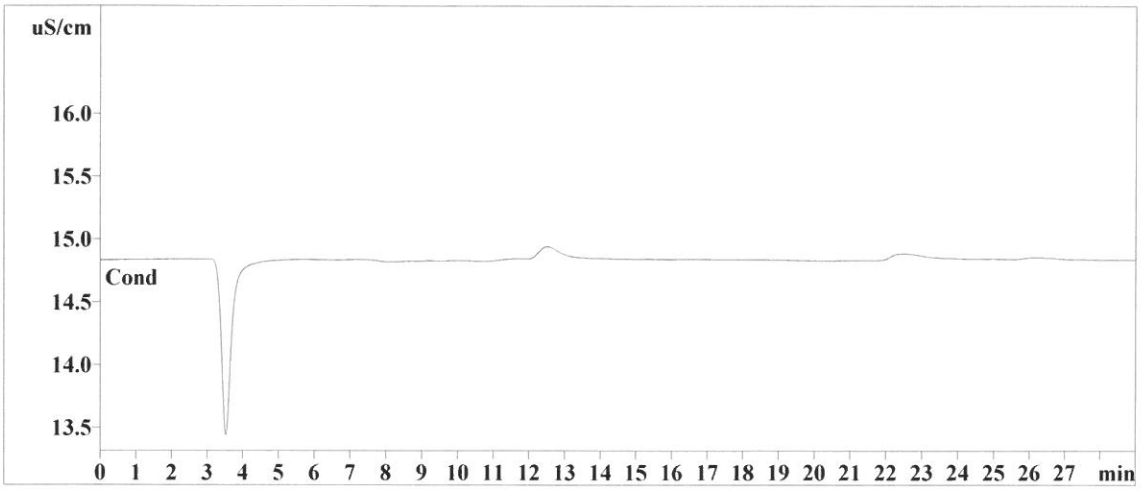
This report has been created by IC Net
METROHM LTD

Report date: 3/24/2021 3:42:46 PM
Printed by: wet

Ident: CCB
Analysis from: 3/23/2021 4:11:08 PM
File: _2021-03-23_ Last save: 3/23/2021 4:40:46 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73781

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

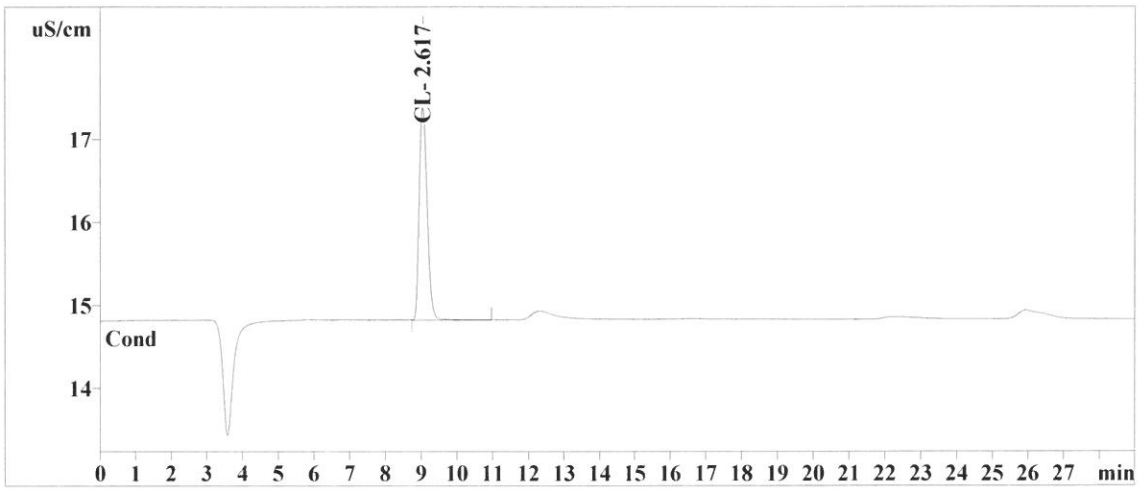
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:19:53 AM
Printed by: wet

Ident: M1770-02DLX400
Analysis from: 3/23/2021 4:43:02 PM
File: _2021-03-23_ Last save: 3/25/2021 8:19:54 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73782

SAMPLE:
: AM/AP
Vial number: 22
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.03	0.242	2.55	99.98	39.694	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	29.00	0.035	2.55	99.98	39.694	100.00	0.

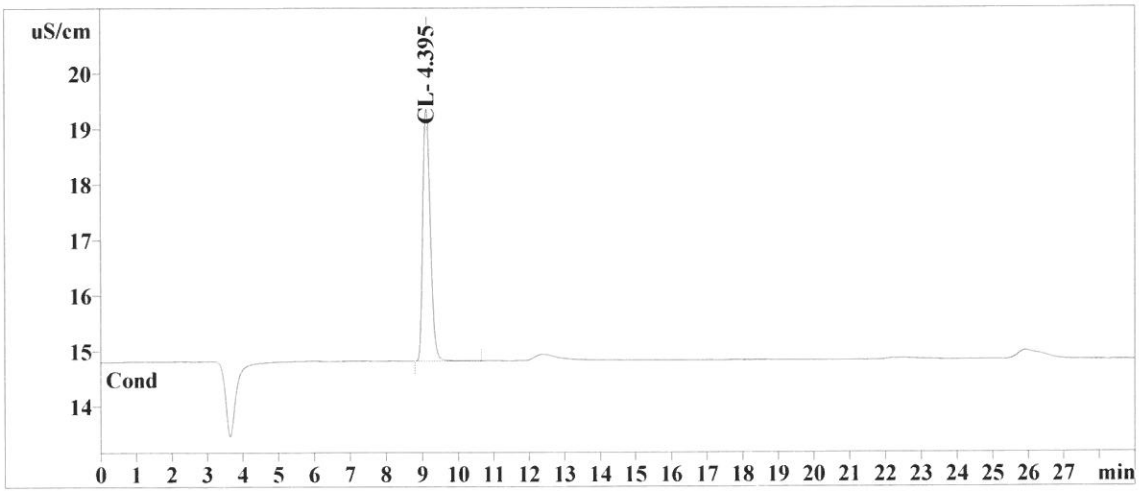
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:20:27 AM
Printed by: wet

Ident: M1770-03DLX100
Analysis from: 3/23/2021 5:14:56 PM
File: _2021-03-23_ Last save: 3/25/2021 8:20:28 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73783

SAMPLE:
: AM/AP
Vial number: 23
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.10	0.234	4.54	100.01	68.233	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	29.00	0.033	4.54	100.01	68.233	100.00	0.

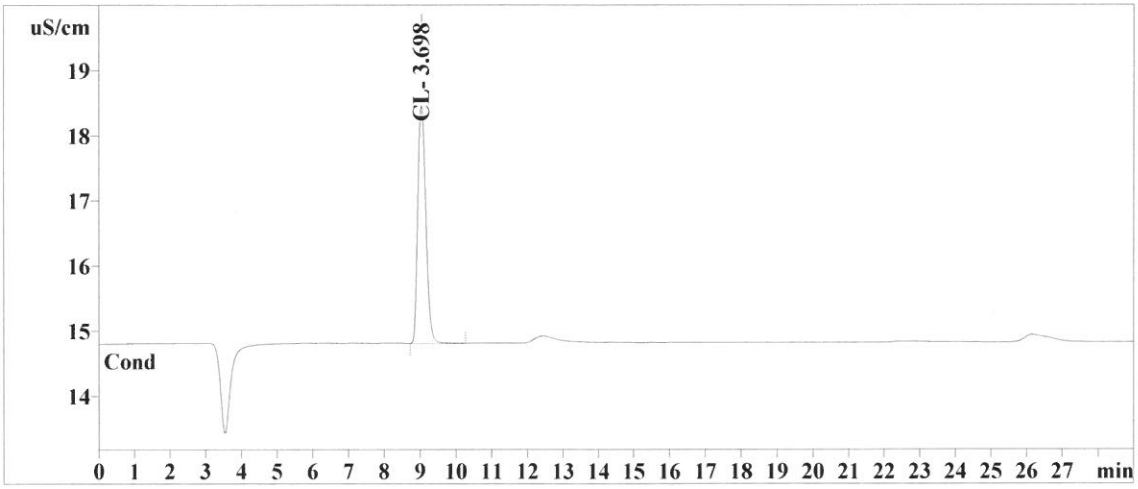
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:21:33 AM
Printed by: wet

Ident: M1770-06DLX500
Analysis from: 3/23/2021 5:46:50 PM
File: _2021-03-23_ Last save: 3/25/2021 8:21:34 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73784

SAMPLE:
: AM/AP
Vial number: 24
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.02	0.244	3.64	100.00	57.043	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	29.00	0.035	3.64	100.00	57.043	100.00	0.

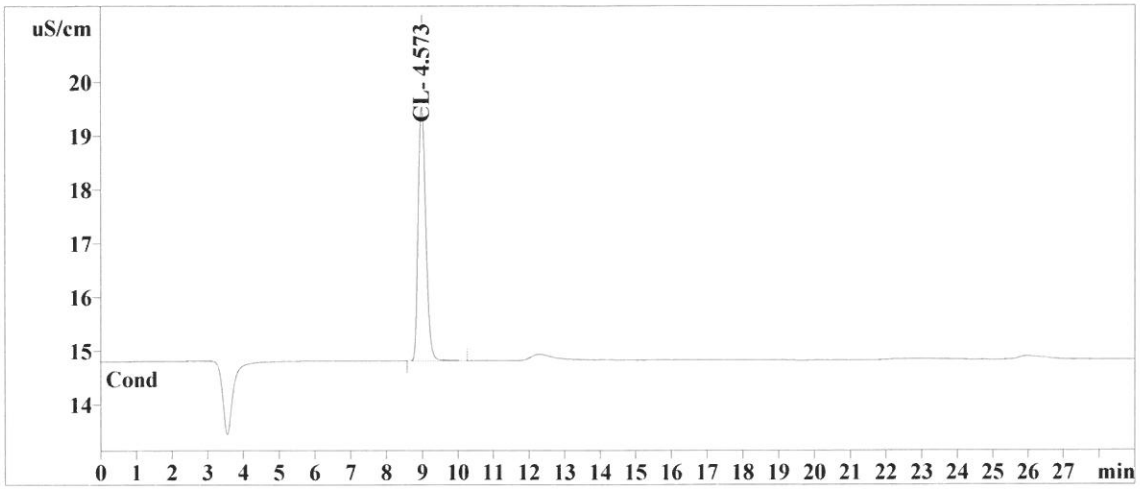
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:22:01 AM
Printed by: wet

Ident: M1770-07DLX100
Analysis from: 3/23/2021 6:18:44 PM
File: _2021-03-23_ Last save: 3/25/2021 8:22:02 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73785

SAMPLE:
: AM/AP
Vial number: 25
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.97	0.233	4.72	100.00	71.088	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	29.00	0.033	4.72	100.00	71.088	100.00	0.

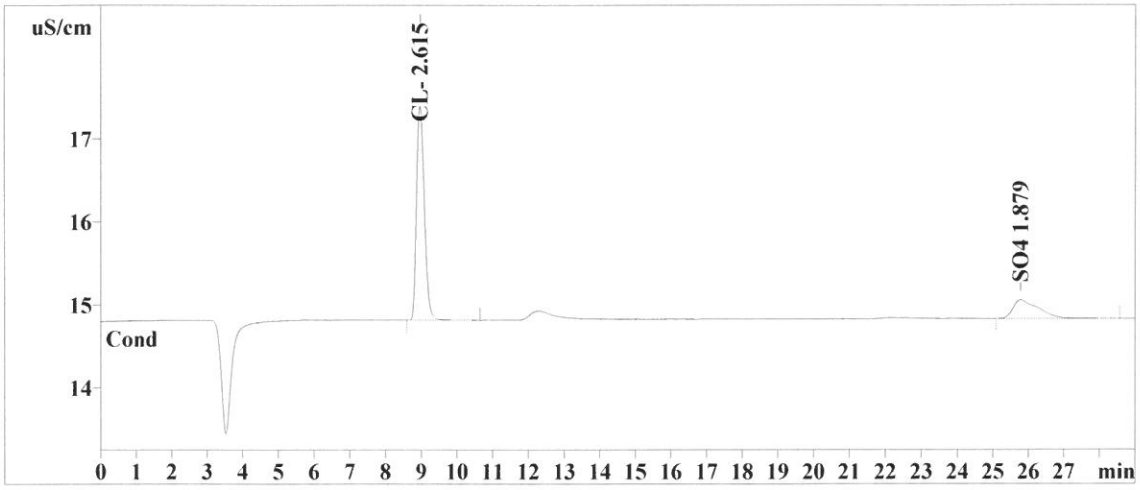
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:22:41 AM
Printed by: wet

Ident: M1770-08DLX200
Analysis from: 3/23/2021 6:50:38 PM
File: _2021-03-23_ Last save: 3/23/2021 7:19:26 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73786

SAMPLE:
: AM/AP
Vial number: 26
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.95	0.239	2.57	91.87	39.664	77.61	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.78	0.798	0.23	8.11	11.442	22.39	0.
7	29.00	0.148	2.80	99.98	51.106	100.00	0.

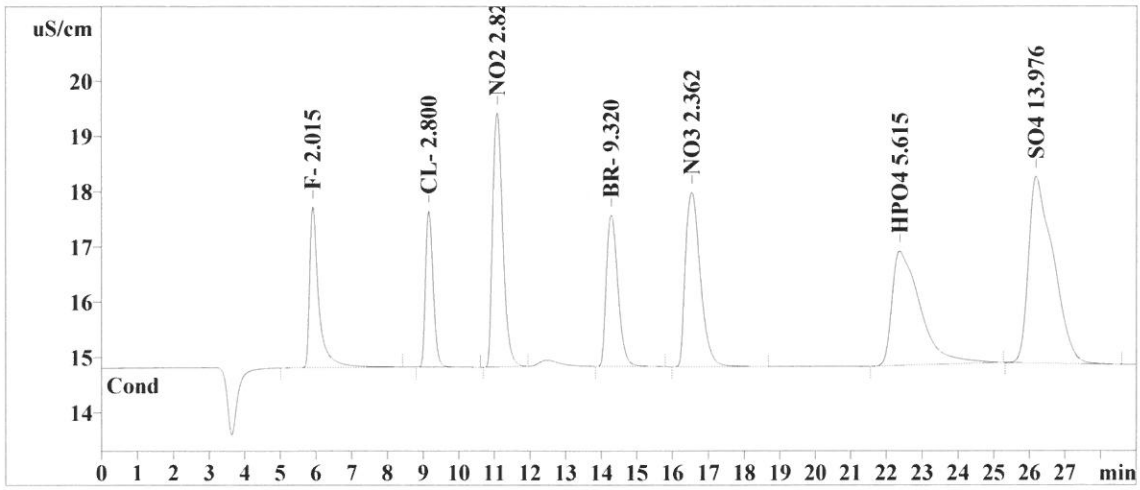
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:23:43 AM
Printed by: wet

Ident: CCV
Analysis from: 3/23/2021 7:22:32 PM
File: _2021-03-23_ Last save: 3/23/2021 7:51:20 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73787

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.91	0.236	2.90	13.41	52.529	8.50	0.
2	9.15	0.235	2.82	13.00	42.631	6.90	0.
3	11.07	0.308	4.59	21.22	91.416	14.79	0.
4	14.27	0.357	2.74	12.64	62.756	10.15	0.
5	16.52	0.446	3.16	14.57	90.700	14.67	0.
6	22.36	0.818	2.07	9.57	113.789	18.41	0.
7	26.18	0.793	3.38	15.59	164.402	26.59	0.
7	29.00	0.456	21.65	100.00	618.223	100.00	0.

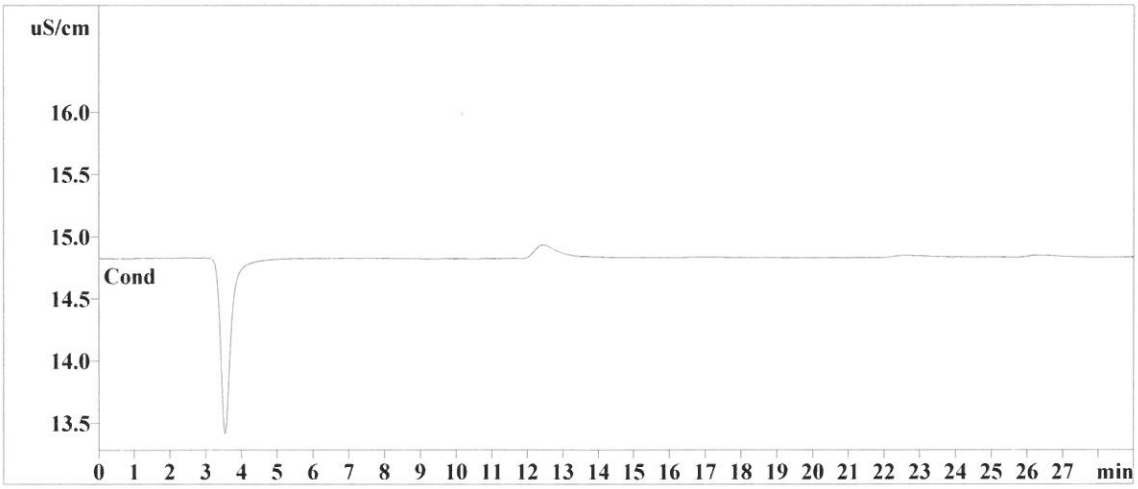
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:23:52 AM
Printed by: wet

Ident: CCB
Analysis from: 3/23/2021 7:54:26 PM
File: _2021-03-23_ Last save: 3/23/2021 8:23:14 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73788

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

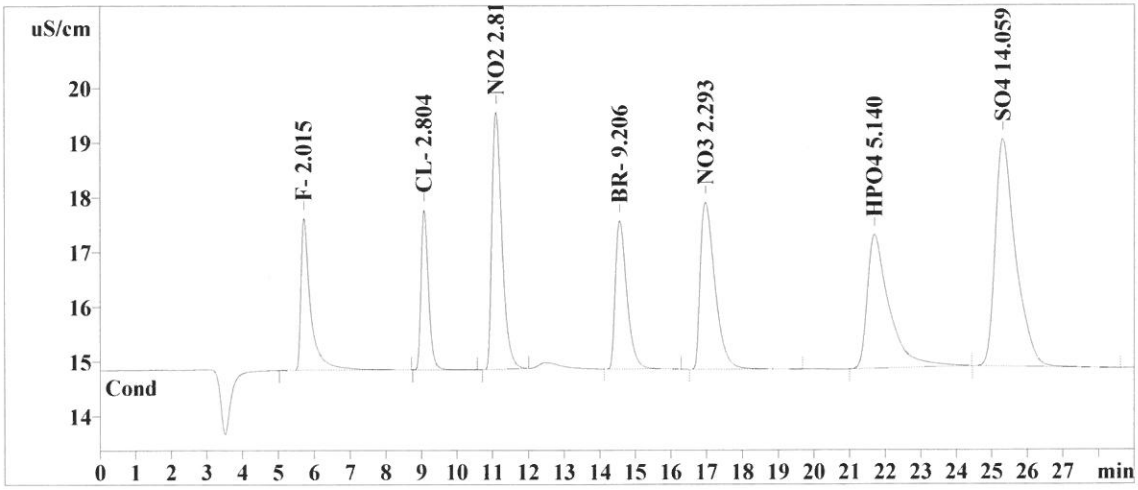
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:24:57 AM
Printed by: wet

Ident: CCV
Analysis from: 3/24/2021 8:55:34 AM
File: _2021-03-24_ Last save: 3/24/2021 9:24:22 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73792

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.71	0.237	2.78	12.20	52.524	8.66	0.
2	9.07	0.221	2.92	12.83	42.706	7.04	0.
3	11.09	0.292	4.70	20.64	90.853	14.99	0.
4	14.55	0.346	2.71	11.92	61.933	10.22	0.
5	16.96	0.438	3.05	13.40	87.853	14.49	0.
6	21.69	0.592	2.45	10.75	104.883	17.30	0.
7	25.31	0.581	4.15	18.26	165.446	27.29	0.
7	29.00	0.387	22.75	99.99	606.198	100.00	0.

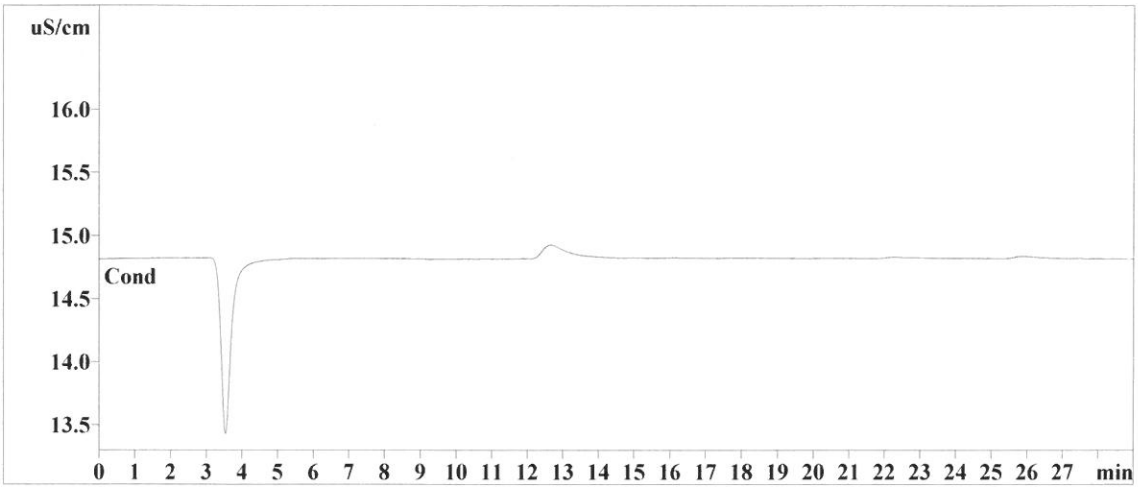
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:25:03 AM
Printed by: wet

Ident: CCB
Analysis from: 3/24/2021 9:40:30 AM
File: _2021-03-24_ Last save: 3/24/2021 10:09:18 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73793

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

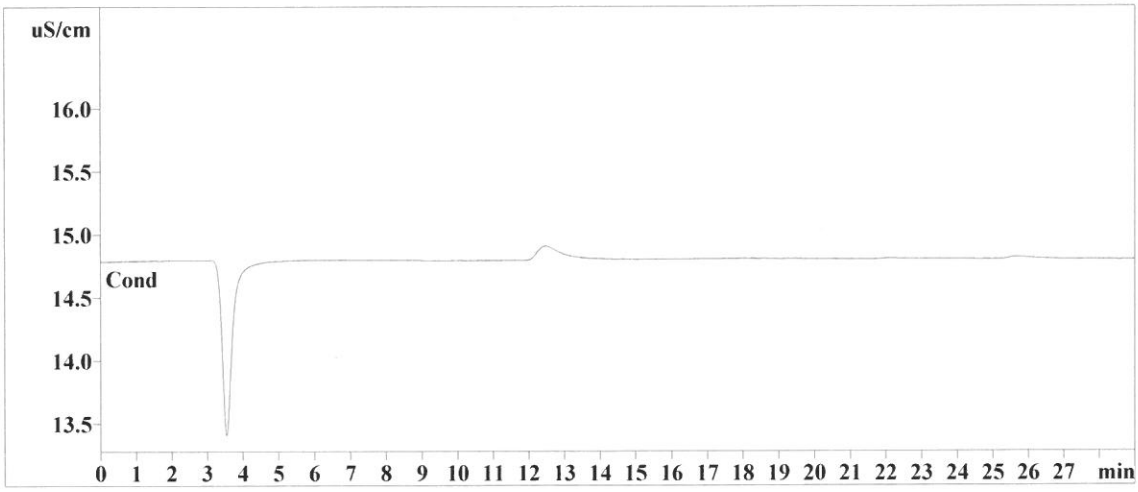
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:25:10 AM
Printed by: wet

Ident: LB113629BLW2
Analysis from: 3/24/2021 10:12:23 AM
File: _2021-03-24_ Last save: 3/25/2021 8:18:40 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73794

SAMPLE:
: AM/AP
Vial number: 13
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

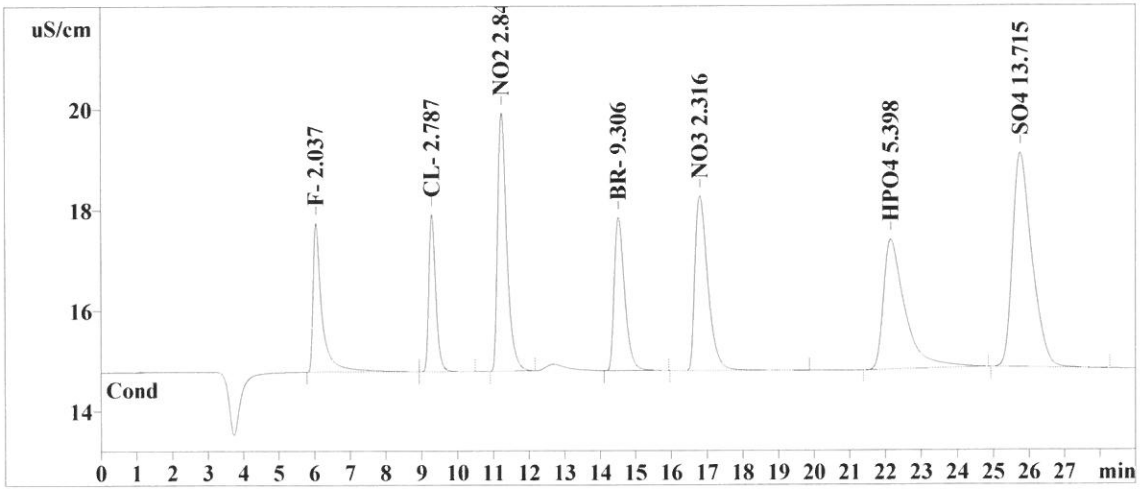
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:25:16 AM
Printed by: wet

Ident: LB113629BSW2
Analysis from: 3/24/2021 10:44:17 AM
File: _2021-03-24_ Last save: 3/25/2021 8:18:40 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73795

SAMPLE:
: AM/AP
Vial number: 14
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	6.04	0.220	2.96	12.03	53.107	8.71	0.
2	9.28	0.205	3.12	12.70	42.424	6.96	0.
3	11.22	0.267	5.14	20.90	92.098	15.10	0.
4	14.51	0.312	3.04	12.37	62.654	10.27	0.
5	16.78	0.385	3.47	14.12	88.811	14.56	0.
6	22.15	0.595	2.59	10.53	109.716	17.99	0.
7	25.75	0.569	4.26	17.35	161.101	26.41	0.
7	29.00	0.365	24.58	100.00	609.912	100.00	0.

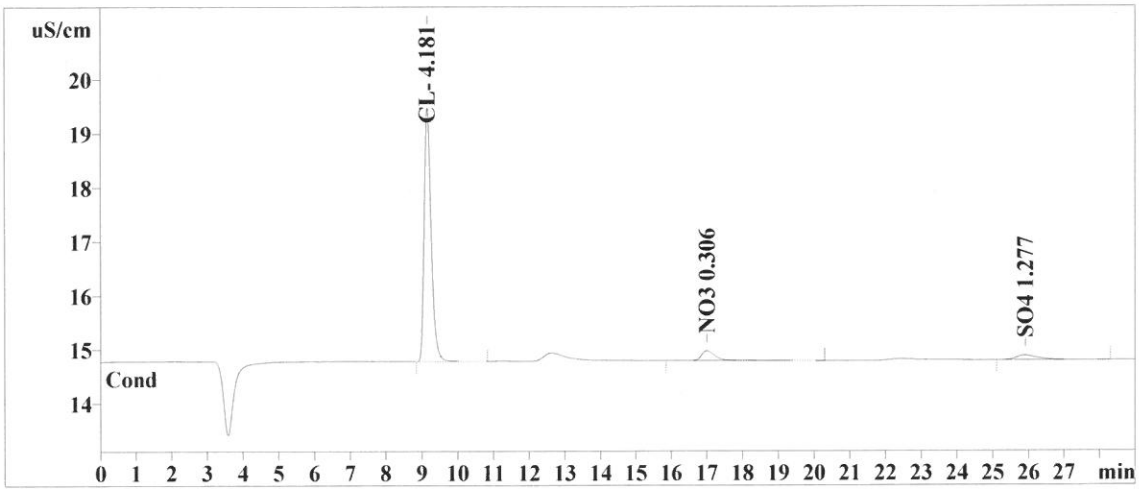
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:25:37 AM
Printed by: wet

Ident: M1770-10X20
Analysis from: 3/24/2021 11:16:11 AM
File: _2021-03-24_ Last save: 3/24/2021 12:28:02 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73796

SAMPLE:
: AM/AP
Vial number: 27
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.15	0.207	4.69	94.58	64.807	87.16	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	17.00	0.390	0.18	3.66	5.726	7.70	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.90	0.613	0.09	1.74	3.823	5.14	0.
7	29.00	0.173	4.96	99.97	74.356	100.00	0.

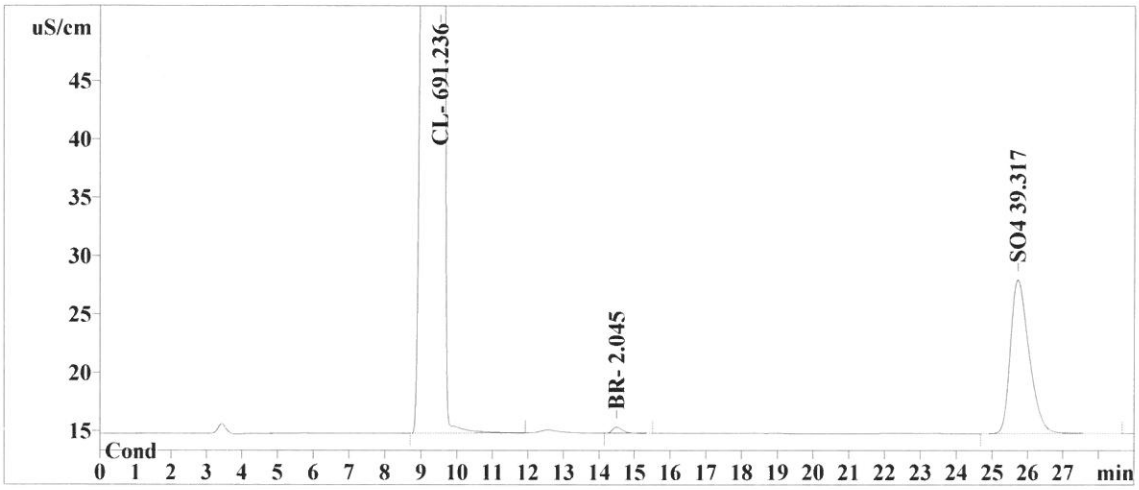
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:25:49 AM
Printed by: wet

Ident: M1770-11X20
Analysis from: 3/24/2021 11:48:06 AM
File: _2021-03-24_ Last save: 3/24/2021 12:28:02 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73797

SAMPLE:
: AM/AP
Vial number: 28
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.51	0.433	433.09	96.89	11093.197	95.73	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	14.49	0.300	0.51	0.11	10.043	0.09	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.72	0.561	13.17	2.95	484.821	4.18	0.
7	29.00	0.185	446.78	99.95	11588.062	100.00	0.

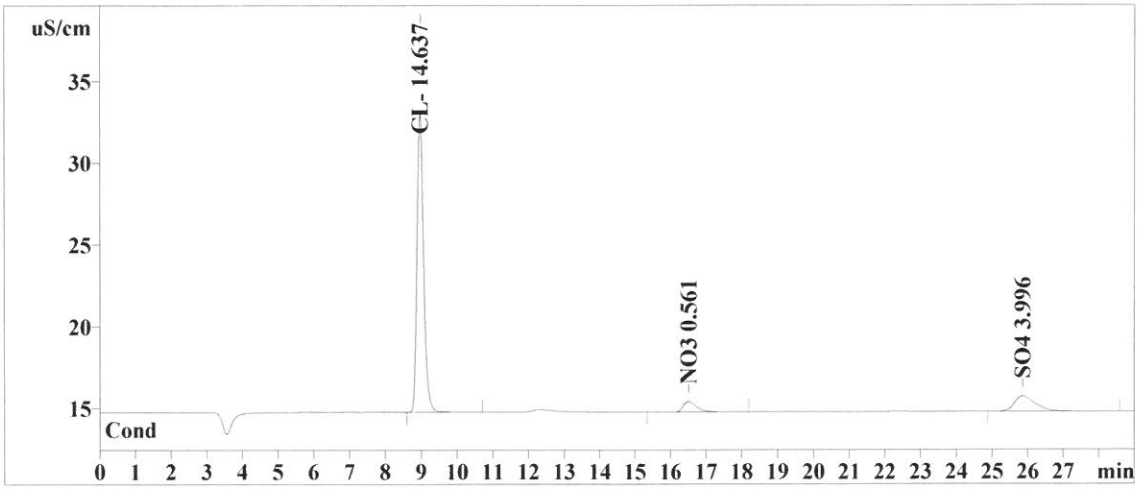
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:26:22 AM
Printed by: wet

Ident: M1770-15X20
Analysis from: 3/24/2021 1:55:42 PM
File: _2021-03-24_ Last save: 3/24/2021 2:24:30 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73801

SAMPLE:
: AM/AP
Vial number: 32
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.96	0.189	18.34	92.13	232.643	81.02	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.51	0.389	0.63	3.15	16.290	5.67	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.85	0.611	0.94	4.71	38.201	13.30	0.
7	29.00	0.170	19.91	99.99	287.134	100.00	0.

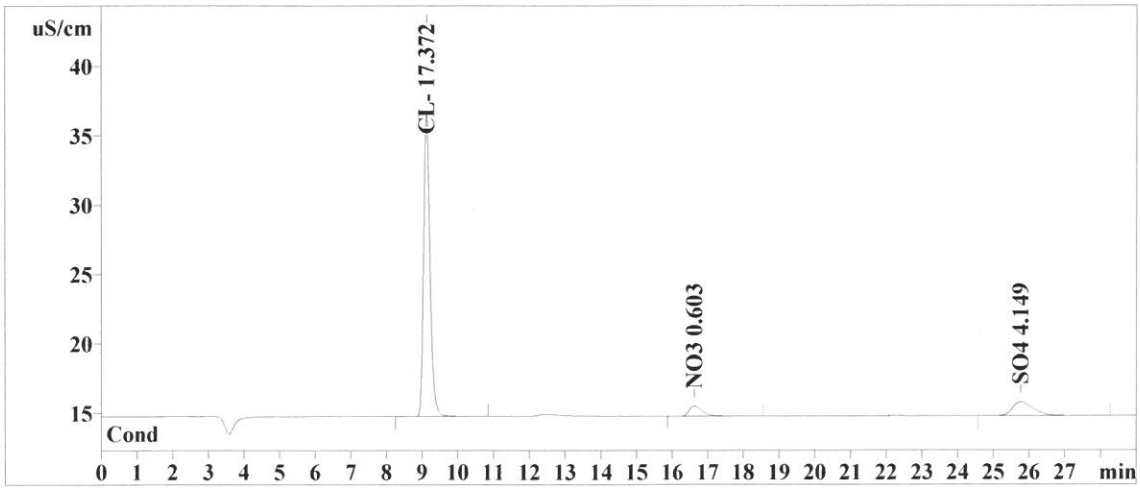
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:26:30 AM
Printed by: wet

Ident: M1770-16X20
Analysis from: 3/24/2021 2:27:36 PM
File: _2021-03-24_ Last save: 3/24/2021 2:56:24 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73802

SAMPLE:
: AM/AP
Vial number: 33
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.12	0.189	21.90	92.72	276.544	82.62	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.62	0.374	0.72	3.06	18.029	5.39	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.77	0.606	1.00	4.23	40.137	11.99	0.
7	29.00	0.167	23.62	100.01	334.710	100.00	0.

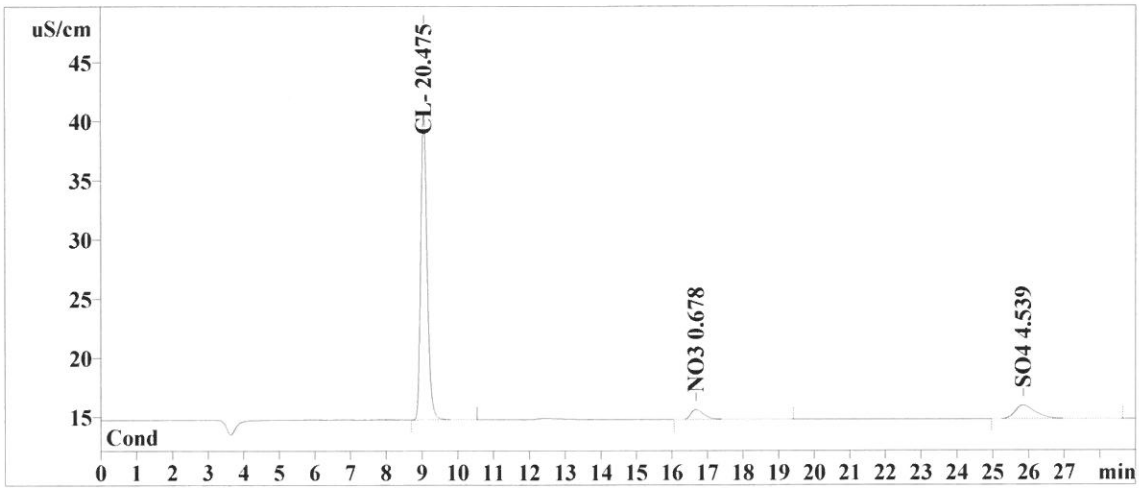
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:26:37 AM
Printed by: wet

Ident: M1770-17X20
Analysis from: 3/24/2021 2:59:30 PM
File: _2021-03-24_ Last save: 3/24/2021 3:28:18 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73803

SAMPLE:
: AM/AP
Vial number: 34
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.04	0.189	25.94	92.92	326.353	83.14	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.67	0.384	0.83	2.96	21.114	5.38	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.84	0.591	1.15	4.12	45.067	11.48	0.
7	29.00	0.166	27.92	100.00	392.534	100.00	0.

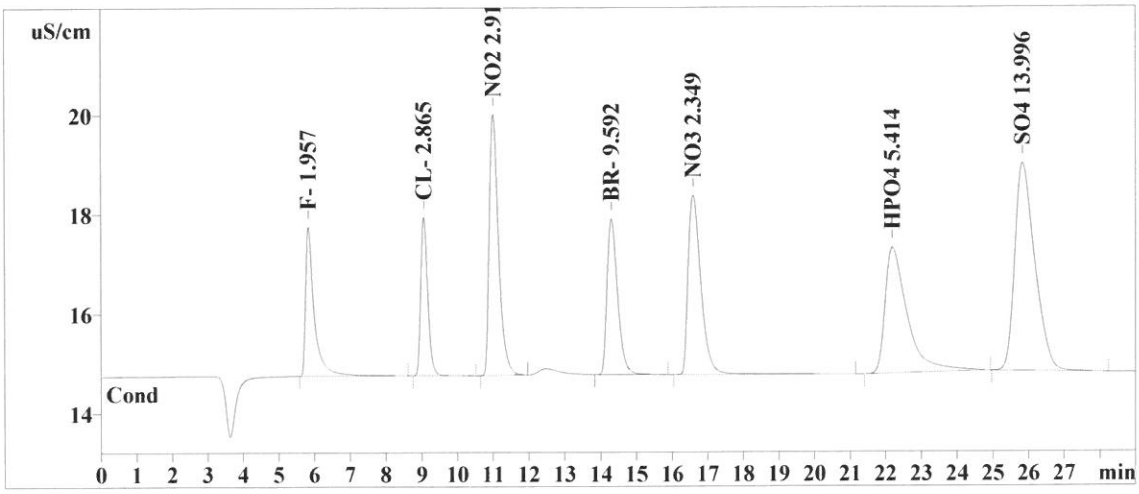
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:26:46 AM
Printed by: wet

Ident: CCV
Analysis from: 3/24/2021 3:31:24 PM
File: _2021-03-24_ Last save: 3/24/2021 4:00:14 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73804

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.84	0.217	3.00	12.05	51.018	8.25	0.
2	9.05	0.207	3.18	12.80	43.676	7.06	0.
3	11.00	0.268	5.25	21.10	94.317	15.25	0.
4	14.29	0.315	3.13	12.57	64.732	10.46	0.
5	16.58	0.375	3.60	14.48	90.170	14.58	0.
6	22.20	0.613	2.53	10.18	110.019	17.79	0.
7	25.83	0.603	4.19	16.83	164.655	26.62	0.
7	29.00	0.371	24.87	99.99	618.588	100.00	0.

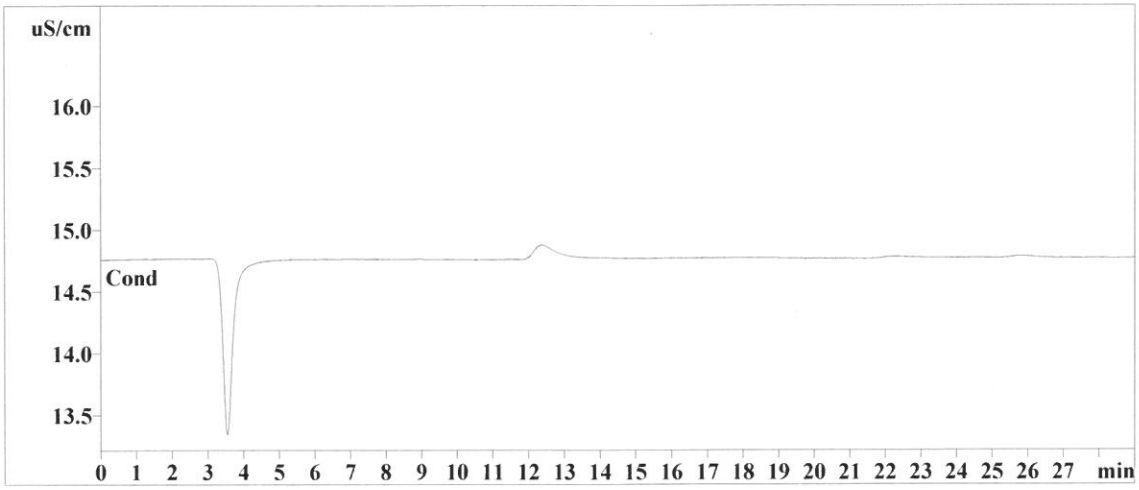
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:27:01 AM
Printed by: wet

Ident: CCB
Analysis from: 3/24/2021 4:03:18 PM
File: _2021-03-24_ Last save: 3/24/2021 4:32:08 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73805

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

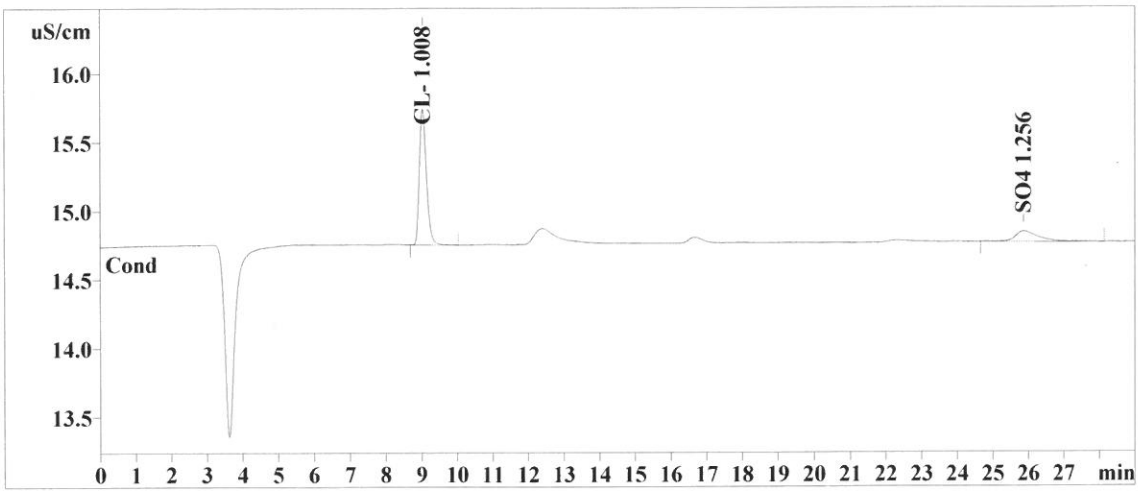
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:27:11 AM
Printed by: wet

Ident: M1770-18
Analysis from: 3/24/2021 4:35:13 PM
File: _2021-03-24_ Last save: 3/24/2021 5:04:02 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73806

SAMPLE:
: AM/AP
Vial number: 35
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.02	0.212	0.99	92.66	13.871	79.59	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.86	0.638	0.08	7.26	3.556	20.41	0.
7	29.00	0.121	1.06	99.92	17.427	100.00	0.

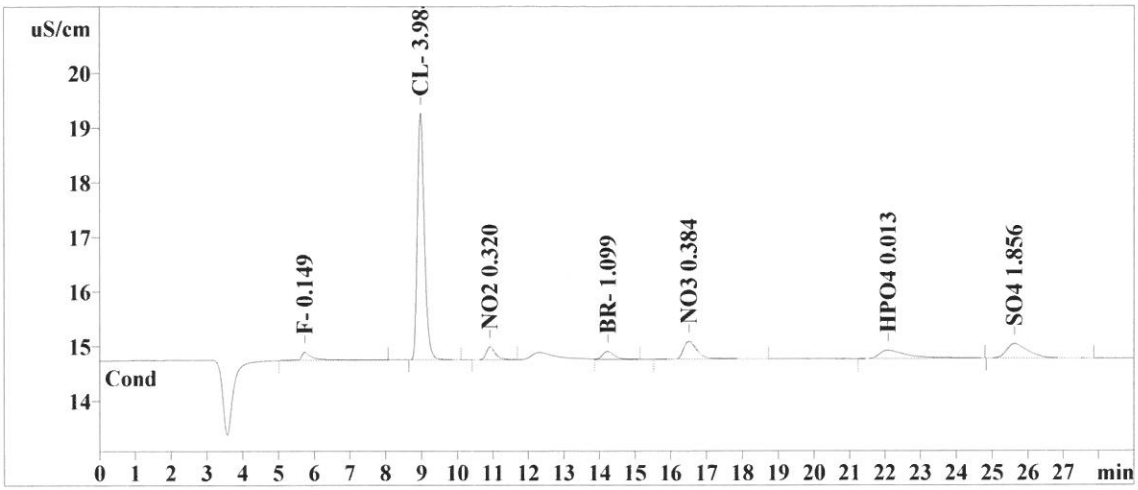
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:30:39 AM
Printed by: wet

Ident: M1770-10MSX20
Analysis from: 3/24/2021 5:07:07 PM
File: _2021-03-24_ Last save: 3/24/2021 5:35:56 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73807

SAMPLE:
: AM/AP
Vial number: 36
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.74	0.241	0.15	2.56	3.576	3.53	0.
2	8.96	0.207	4.51	78.02	61.643	60.76	0.
3	10.92	0.264	0.23	4.07	4.210	4.15	0.
4	14.22	0.342	0.14	2.45	3.195	3.15	0.
5	16.50	0.392	0.32	5.61	8.957	8.83	0.
6	22.08	0.760	0.15	2.67	8.730	8.61	0.
7	25.62	0.627	0.26	4.57	11.141	10.98	0.
7	29.00	0.405	5.78	99.94	101.452	100.00	0.

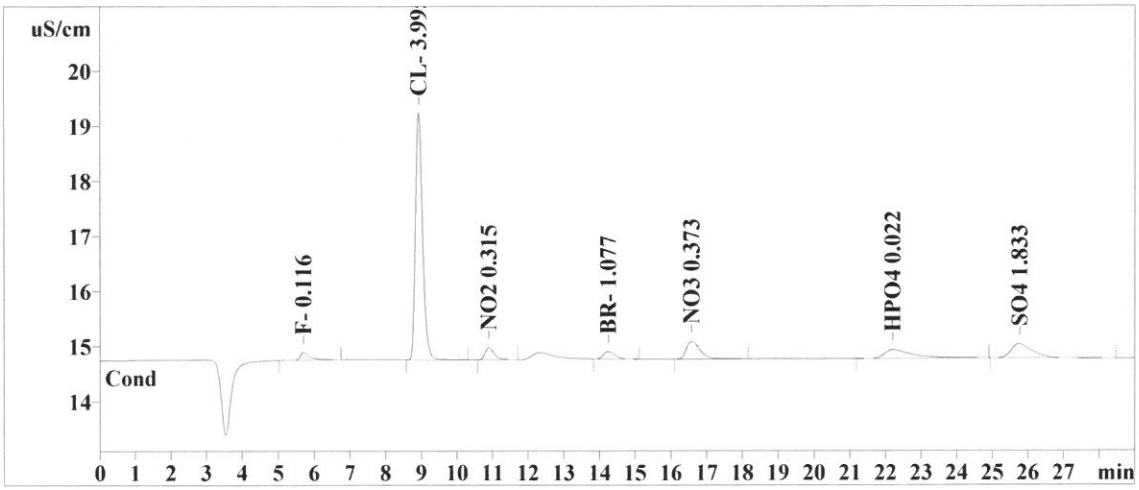
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:30:44 AM
Printed by: wet

Ident: M1770-10MSDX20
Analysis from: 3/24/2021 5:39:01 PM
File: _2021-03-24_ Last save: 3/24/2021 6:07:50 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73808

SAMPLE:
: AM/AP
Vial number: 37
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.70	0.236	0.14	2.46	2.711	2.71	0.
2	8.91	0.209	4.48	78.34	61.825	61.91	0.
3	10.90	0.271	0.22	3.85	4.036	4.04	0.
4	14.24	0.338	0.14	2.39	3.031	3.03	0.
5	16.58	0.403	0.32	5.59	8.514	8.53	0.
6	22.20	0.759	0.16	2.81	8.896	8.91	0.
7	25.75	0.628	0.26	4.50	10.852	10.87	0.
7	29.00	0.406	5.71	99.94	99.864	100.00	0.

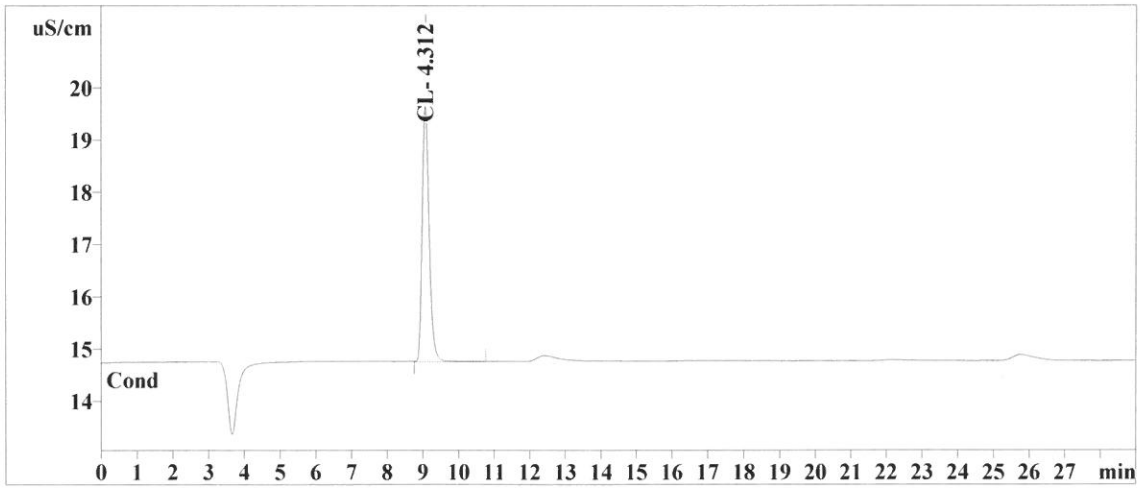
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:31:12 AM
Printed by: wet

Ident: M1770-11DLX2000
Analysis from: 3/24/2021 6:10:55 PM
File: _2021-03-24_ Last save: 3/25/2021 8:31:12 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73809

SAMPLE:
: AM/AP
Vial number: 38
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.06	0.207	4.88	100.01	66.913	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	29.00	0.030	4.88	100.01	66.913	100.00	0.

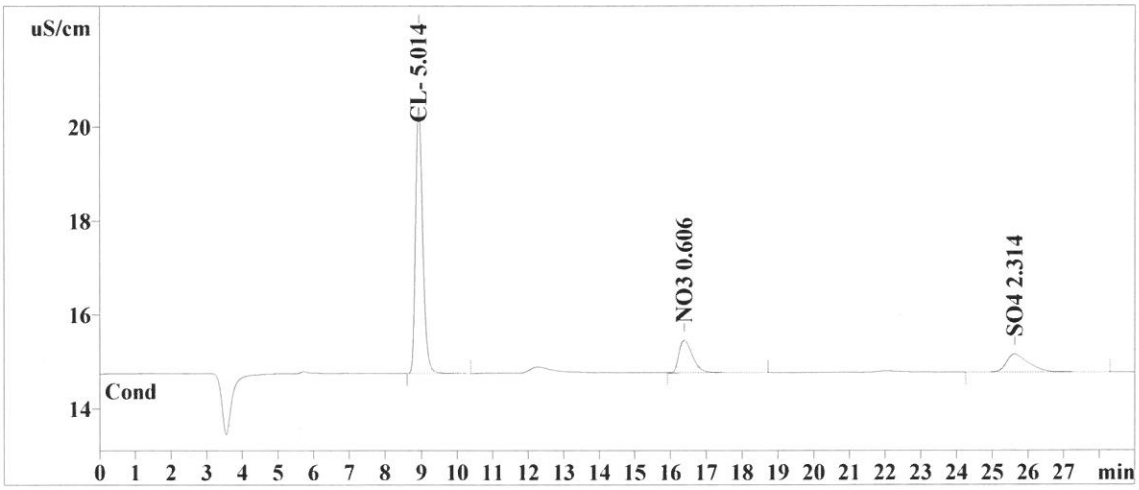
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:31:34 AM
Printed by: wet

Ident: M1770-12X2
Analysis from: 3/24/2021 6:42:49 PM
File: _2021-03-24_ Last save: 3/24/2021 7:11:38 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73810

SAMPLE:
: AM/AP
Vial number: 39
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.92	0.209	5.66	84.02	78.171	69.04	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.39	0.398	0.69	10.23	18.120	16.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.62	0.646	0.39	5.72	16.932	14.95	0.
7	29.00	0.179	6.74	99.97	113.223	100.00	0.

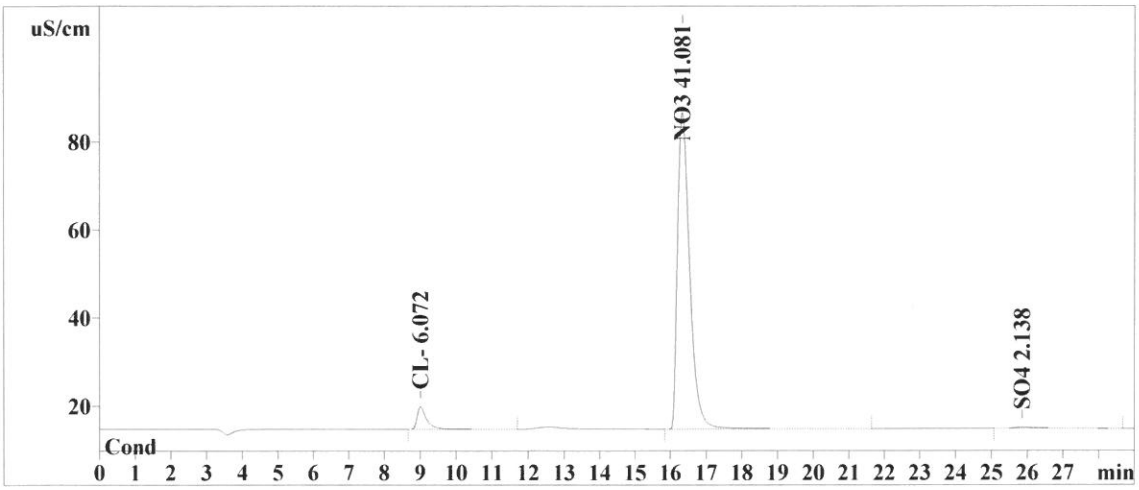
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:31:42 AM
Printed by: wet

Ident: M1770-13X2
Analysis from: 3/24/2021 7:14:43 PM
File: _2021-03-24_ Last save: 3/24/2021 7:43:32 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73811

SAMPLE:
: AM/AP
Vial number: 40
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.01	0.253	5.07	6.58	95.157	5.28	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.32	0.356	71.74	93.03	1690.905	93.90	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.85	0.711	0.31	0.40	14.711	0.82	0.
7	29.00	0.189	77.12	100.00	1800.773	100.00	0.

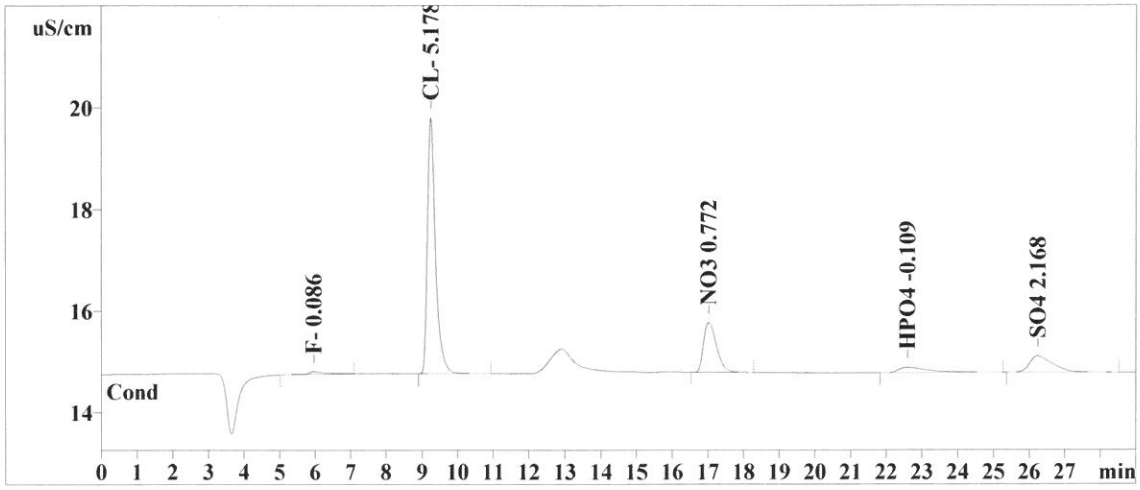
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:32:04 AM
Printed by: wet

Ident: M1770-14X2
Analysis from: 3/24/2021 7:46:37 PM
File: _2021-03-24_ Last save: 3/25/2021 8:32:02 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73812

SAMPLE:
: AM/AP
Vial number: 41
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.96	0.397	0.05	0.83	1.914	1.48	0.
2	9.24	0.232	5.04	77.45	80.813	62.53	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	17.01	0.397	0.98	15.01	24.991	19.34	0.
6	22.59	0.833	0.11	1.62	6.434	4.98	0.
7	26.24	0.687	0.33	5.04	15.089	11.68	0.
7	29.00	0.364	6.51	99.95	129.241	100.00	0.

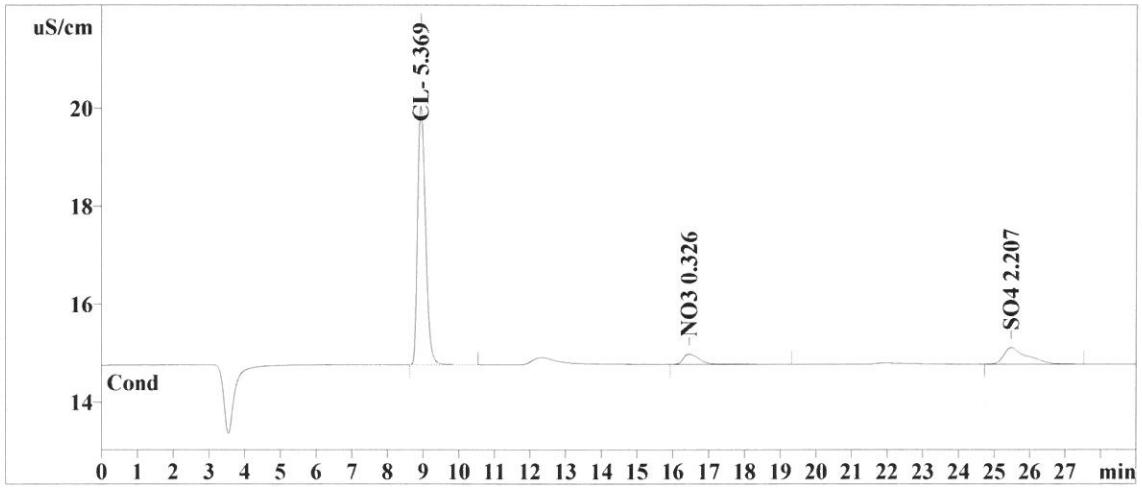
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:34:18 AM
Printed by: wet

Ident: M1770-15DLX50
Analysis from: 3/24/2021 8:18:31 PM
File: _2021-03-24_ Last save: 3/24/2021 8:47:20 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73813

SAMPLE:
: AM/AP
Vial number: 42
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.92	0.247	5.28	90.60	83.864	79.10	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.45	0.477	0.21	3.53	6.570	6.20	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.48	0.647	0.34	5.86	15.590	14.70	0.
7	29.00	0.196	5.83	99.98	106.023	100.00	0.

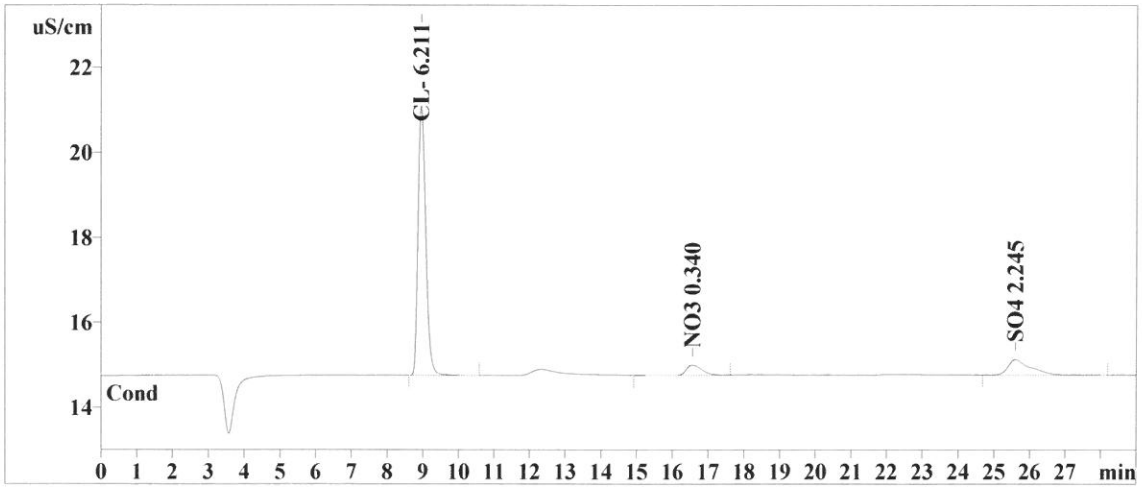
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:34:54 AM
Printed by: wet

Ident: M1770-16DLX50
Analysis from: 3/24/2021 8:50:25 PM
File: _2021-03-24_ Last save: 3/24/2021 9:19:14 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73814

SAMPLE:
: AM/AP
Vial number: 43
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.94	0.238	6.33	91.35	97.381	80.77	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.55	0.462	0.23	3.39	7.125	5.91	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.60	0.629	0.36	5.25	16.066	13.32	0.
7	29.00	0.190	6.93	99.99	120.571	100.00	0.

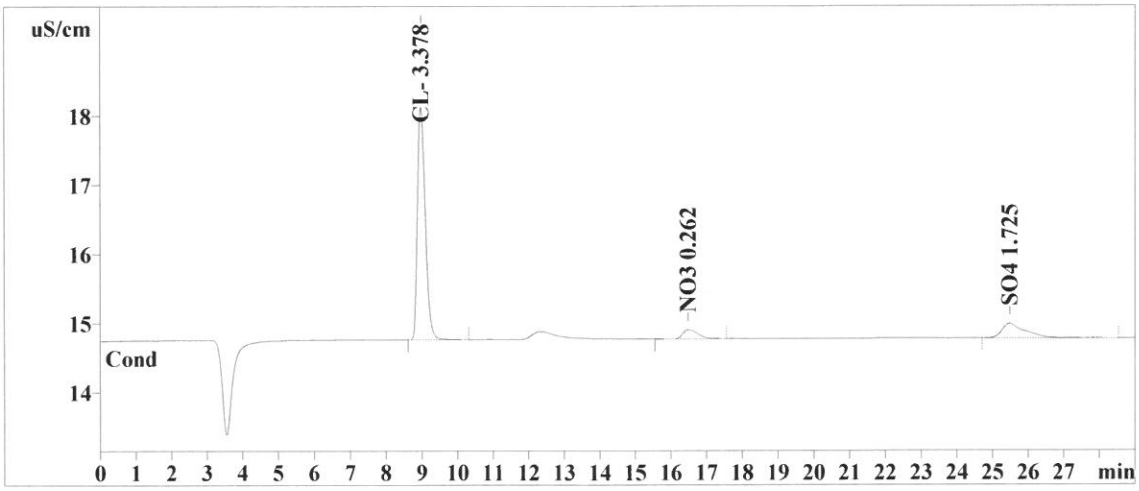
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:35:01 AM
Printed by: wet

Ident: M1770-17DLX100
Analysis from: 3/24/2021 9:22:19 PM
File: _2021-03-24_ Last save: 3/24/2021 9:51:08 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73815

SAMPLE:
: AM/AP
Vial number: 44
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.96	0.239	3.36	90.70	51.920	79.48	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.49	0.453	0.13	3.56	3.912	5.99	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.48	0.647	0.21	5.67	9.491	14.53	0.
7	29.00	0.191	3.70	99.93	65.323	100.00	0.

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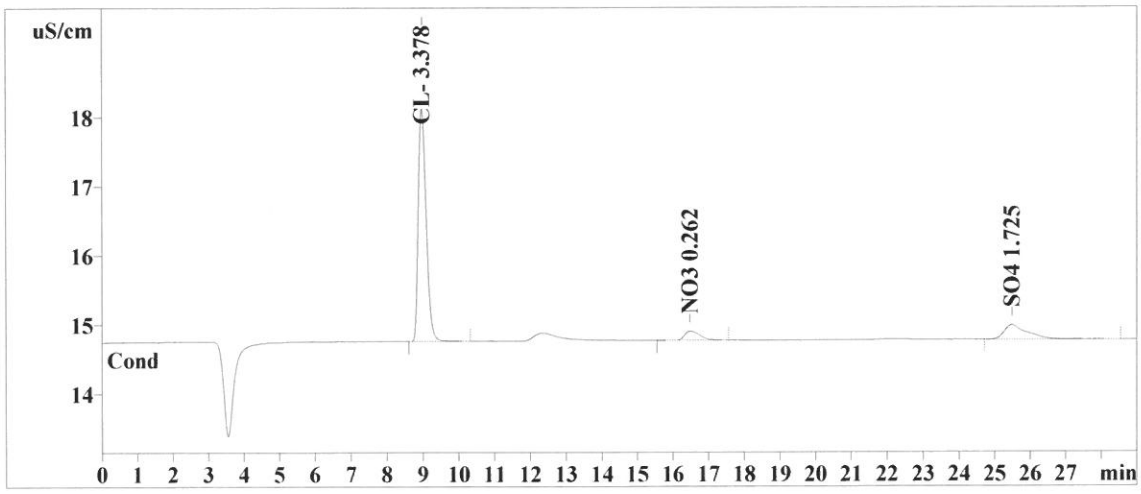
Report date: 3/25/2021 8:37:00 AM
Printed by: wet

Ident: M1770-17DLX100
Analysis from: 3/24/2021 9:22:19 PM
File: _2021-03-24_ Last save: 3/24/2021 9:51:08 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73815

SAMPLE:
: AM/AP
Vial number: 44
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.96	0.239	3.36	90.70	51.920	79.48	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.49	0.453	0.13	3.56	3.912	5.99	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.48	0.647	0.21	5.67	9.491	14.53	0.
7	29.00	0.191	3.70	99.93	65.323	100.00	0.

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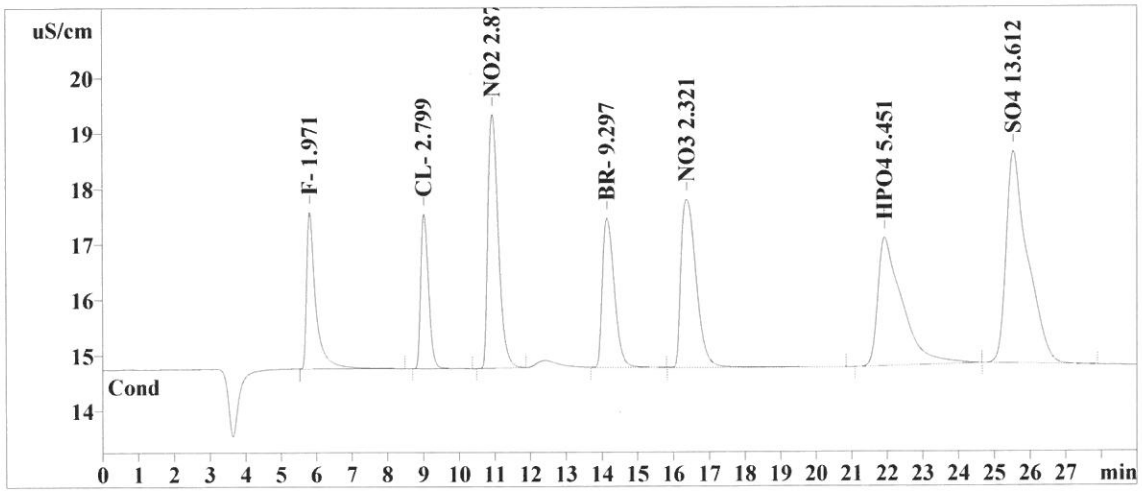
Report date: 3/25/2021 8:37:21 AM
Printed by: wet

Ident: CCV
Analysis from: 3/24/2021 9:54:13 PM
File: _2021-03-24_ Last save: 3/24/2021 10:23:02 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73816

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.81	0.236	2.82	12.79	51.375	8.43	0.
2	9.01	0.237	2.78	12.63	42.615	7.00	0.
3	10.93	0.313	4.57	20.78	93.011	15.27	0.
4	14.13	0.363	2.68	12.19	62.596	10.28	0.
5	16.37	0.454	3.02	13.73	89.023	14.61	0.
6	21.92	0.706	2.31	10.51	110.715	18.18	0.
7	25.53	0.616	3.82	17.36	159.790	26.23	0.
7	29.00	0.418	22.01	99.99	609.124	100.00	0.

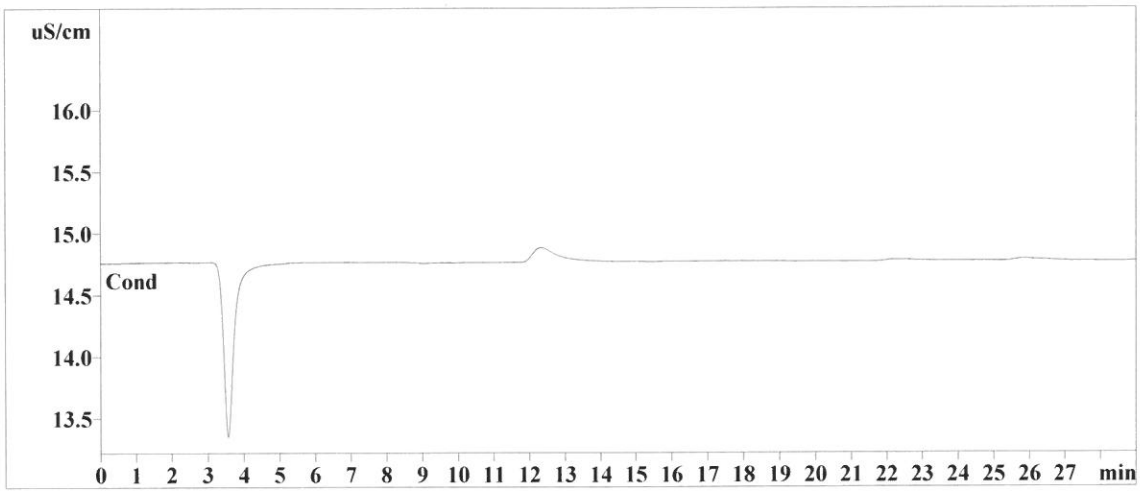
This report has been created by IC Net
METROHM LTD

Report date: 3/25/2021 8:37:28 AM
Printed by: wet

Ident: CCB
Analysis from: 3/24/2021 10:26:07 PM
File: _2021-03-24_ Last save: 3/24/2021 10:54:56 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73817

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
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IC-1
3/29/2021
300.0
AM

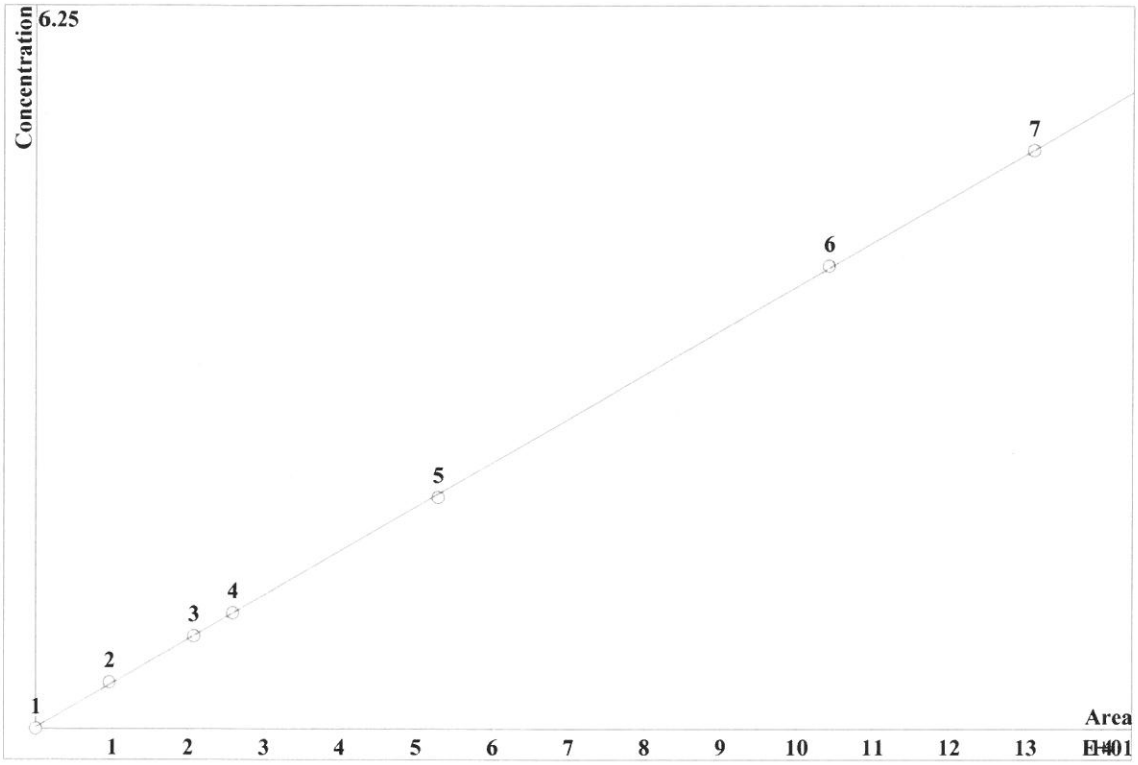
Clear table

ident	concentration F-	concentration CL-	concentration NO2	concentration BR-	concentration NO3	concentration HPO4	concentration SO4	file name	date time	Initial wt/ Final Vol	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-09_	3/9/21 9:53		AM/AP
STD2	0.3800	0.6610	0.6650	2.3350	0.5890	0.7930	3.5170	_2021-03-09_	3/9/21 10:25		AM/AP
STD3	0.8060	1.2430	1.2290	4.1410	1.0270	2.0680	6.1740	_2021-03-09_	3/9/21 11:04		AM/AP
STD4	1.0000	1.4840	1.4780	5.0120	1.2560	2.5800	7.4420	_2021-03-09_	3/9/21 11:34		AM/AP
STD5	2.0300	2.9410	2.9490	9.4860	2.3580	5.0880	14.1650	_2021-03-09_	3/9/21 12:05		AM/AP
STD6	3.9820	5.8220	5.8470	19.5340	4.9180	10.1240	29.7870	_2021-03-09_	3/9/21 12:36		AM/AP
STD7	5.0030	7.6490	7.6310	25.4930	6.3520	12.3470	37.9150	_2021-03-09_	3/9/21 13:07		AM/AP
ICV	2.0000	2.9430	2.9180	9.7600	2.4440	5.0450	14.4750	_2021-03-09_	3/9/21 13:41		AM/AP
ICB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-09_	3/9/21 14:12		AM/AP
CCV	1.8360	2.7830	2.8330	9.1440	2.2730	5.1740	13.5080	_2021-03-25_	3/25/21 13:35		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-25_	3/25/21 14:07		AM/AP
LB113684BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-25_	3/25/21 14:39		AM/AP
LB113684BSW	1.9330	2.7480	2.8120	9.3660	2.3370	5.2290	13.3150	_2021-03-25_	3/25/21 15:11		AM/AP
M1770-20X5	0.1150	866.6830	0.0000	2.5440	0.0000	0.0000	1.3300	_2021-03-25_	3/25/21 16:15		AM/AP
M1770-21X5	0.0000	66.7150	0.0000	0.0000	1.5230	0.0000	11.5260	_2021-03-25_	3/25/21 16:47		AM/AP
M1770-22X5	0.0000	1.6670	0.0000	0.0000	0.2620	0.0000	2.4450	_2021-03-25_	3/25/21 17:19		AM/AP
M1770-23X5	0.0000	69.2240	0.0000	0.0000	1.6290	0.0000	14.5090	_2021-03-25_	3/25/21 17:50		AM/AP
M1770-24X5	0.0000	68.1420	0.0000	0.0000	1.6390	0.0000	14.0190	_2021-03-25_	3/25/21 18:22		AM/AP
M1770-24MSX5	0.5110	65.0450	0.6420	2.3010	1.9640	1.0990	15.9150	_2021-03-25_	3/25/21 18:54		AM/AP
M1770-24MSDX5	0.4750	65.3800	0.6540	2.2950	1.9920	1.3200	15.9140	_2021-03-25_	3/25/21 19:26		AM/AP
CCV	1.9930	2.7810	2.7960	9.1730	2.2810	5.4740	13.5500	_2021-03-25_	3/25/21 19:58		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-25_	3/25/21 20:30		AM/AP
CCV	1.9660	2.7820	2.7770	9.1970	2.2660	4.9840	13.4560	_2021-03-26_	3/26/21 8:50		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-26_	3/26/21 9:26		AM/AP
LB113684BLW2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-26_	3/26/21 9:58		AM/AP
LB113684BSW2	2.0110	2.7830	2.7750	9.1990	2.2960	5.3140	13.5970	_2021-03-26_	3/26/21 10:31		AM/AP
M1763-03	1.0430	1020.2470	0.3040	2.2000	4.0380	0.0000	50.2010	_2021-03-26_	3/26/21 11:04		AM/AP
M1763-03MS	2.6440	1003.9180	3.0340	11.4550	6.5390	1.5230	63.7630	_2021-03-26_	3/26/21 11:37		AM/AP
M1763-03MSD	2.6070	975.5340	2.9740	11.3580	6.5280	1.0010	63.8250	_2021-03-26_	3/26/21 12:10		AM/AP
M1770-20DLX100	0.0000	2.6620	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-26_	3/26/21 12:43		AM/AP
M1770-21DLX50	0.0000	5.1660	0.0000	0.0000	0.2910	0.0000	2.0840	_2021-03-26_	3/26/21 13:16		AM/AP
M1770-23DLX50	0.0000	5.2210	0.0000	0.0000	0.3030	0.0000	2.2820	_2021-03-26_	3/26/21 13:49		AM/AP
M1770-24DLX50	0.0000	5.3400	0.0000	0.0000	0.3010	0.0000	2.2870	_2021-03-26_	3/26/21 14:22		AM/AP
CCV	1.8910	2.8510	3.2460	9.3300	2.2840	4.9870	13.5110	_2021-03-26_	3/26/21 14:55		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2021-03-26_	3/26/21 15:27		AM/AP

IC-1
300.0
3/09/2021
AM

CALIBRATION OF COMPONENT F-

Method: ANIONS 03-09-21.mtw
Equation: Q = 0.762166·A + 0.260905
RSD: 0.935 %
Correlation coefficient: 0.999952

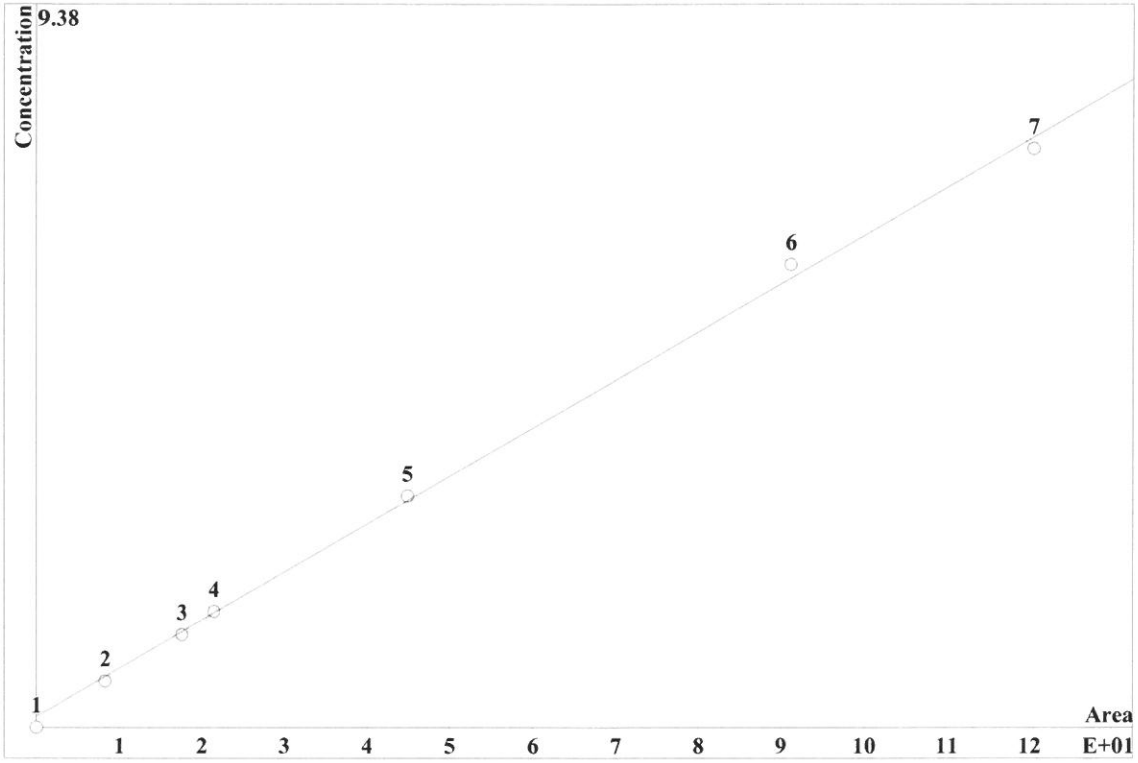


K3 = 0 K2 = 0 K1 = 0.762166 K0 = 0.260905
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.7658	9.617	0.4	20	5.822		Yes
3	1.568	20.8	0.8	20	5.822		Yes
4	2.051	25.9	1	20	5.822		Yes
5	4.191	52.93	2	20	5.822		Yes
6	8.519	104.1	4	20	5.822		Yes
7	10.98	130.9	5	20	5.822		Yes

CALIBRATION OF COMPONENT CL-

Method: ANIONS 03-09-21.mtw
Equation: Q = 1.24598·A + 2.87797
RSD: 3.808 %
Correlation coefficient: 0.999209

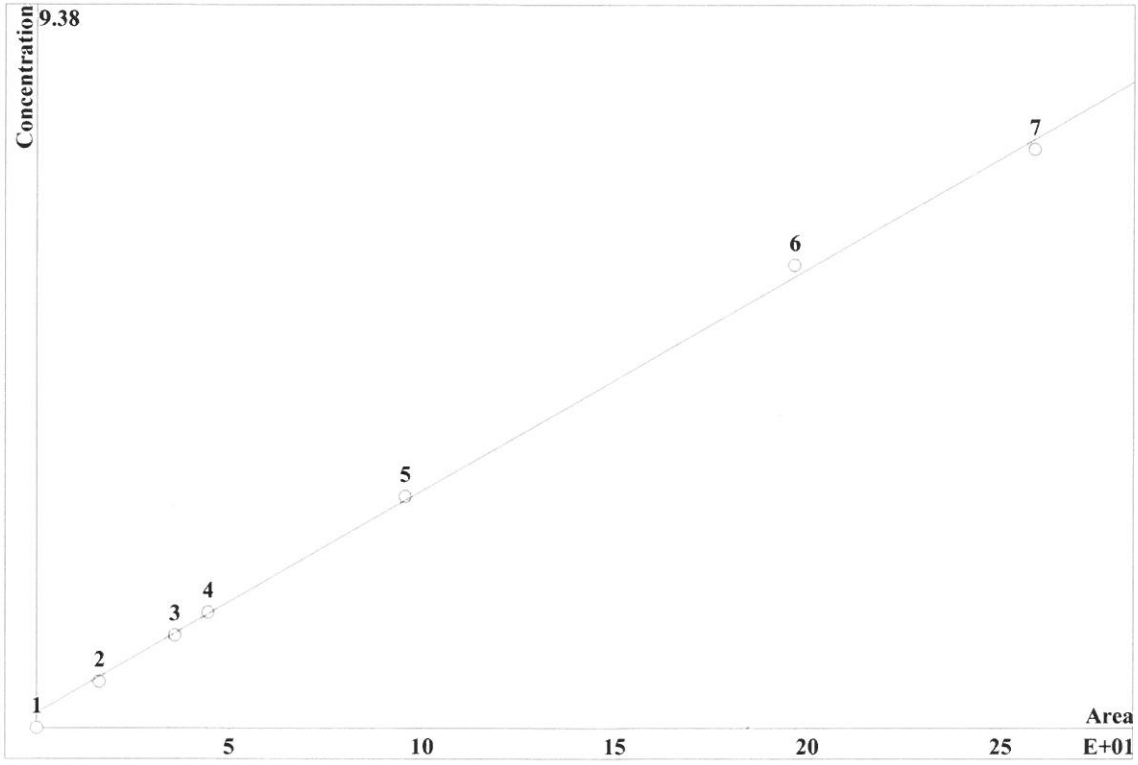


K3 = 0 K2 = 0 K1 = 1.24598 K0 = 2.87797
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	0.6501	8.293	0.6	20	9.31	Yes	
3	1.365	17.65	1.2	20	9.31	Yes	
4	1.705	21.51	1.5	20	9.31	Yes	
5	3.511	44.9	3	20	9.31	Yes	
6	7.471	91.14	6	20	9.31	Yes	
7	9.724	120.5	7.5	20	9.31	Yes	

CALIBRATION OF COMPONENT NO2

Method: ANIONS 03-09-21.mtw
Equation: Q = 0.574737·A + 3.98858
RSD: 3.346 %
Correlation coefficient: 0.999389

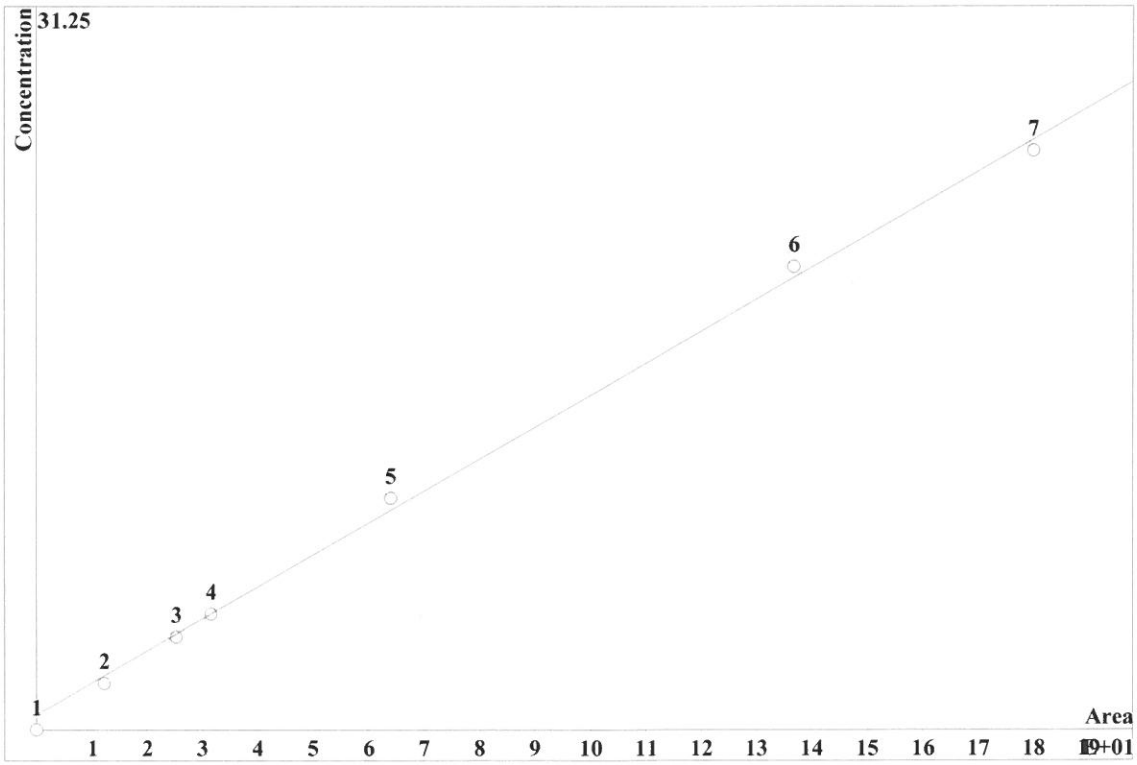


K3 = 0 K2 = 0 K1 = 0.574737 K0 = 3.98858
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	1.027	16.22	0.6	20	11.45	Yes	
3	2.244	35.84	1.2	20	11.45	Yes	
4	2.787	44.5	1.5	20	11.45	Yes	
5	5.661	95.7	3	20	11.45	Yes	
6	11.53	196.5	6	20	11.45	Yes	
7	14.55	258.6	7.5	20	11.45	Yes	

CALIBRATION OF COMPONENT BR-

Method: ANIONS 03-09-21.mtw
Equation: Q = 2.76027·A + 13.1683
RSD: 4.205 %
Correlation coefficient: 0.999036

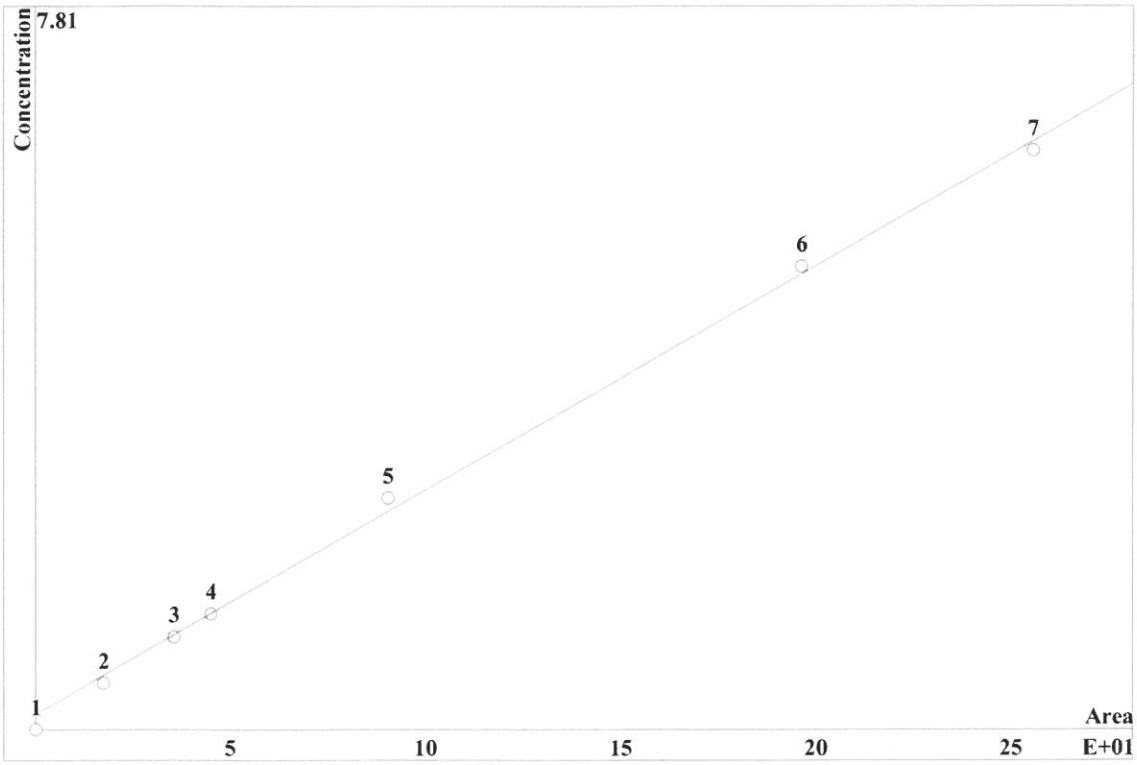


K3 = 0 K2 = 0 K1 = 2.76027 K0 = 13.1683
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	0.6194	12.15	2	20	15.03	Yes	
3	1.323	25.23	4	20	15.03	Yes	
4	1.672	31.54	5	20	15.03	Yes	
5	3.458	63.96	10	20	15.03	Yes	
6	7.336	136.8	20	20	15.03	Yes	
7	9.456	179.9	25	20	15.03	Yes	

CALIBRATION OF COMPONENT NO3

Method: ANIONS 03-09-21.mtw
Equation: Q = 0.483932·A + 3.34418
RSD: 3.902 %
Correlation coefficient: 0.999170

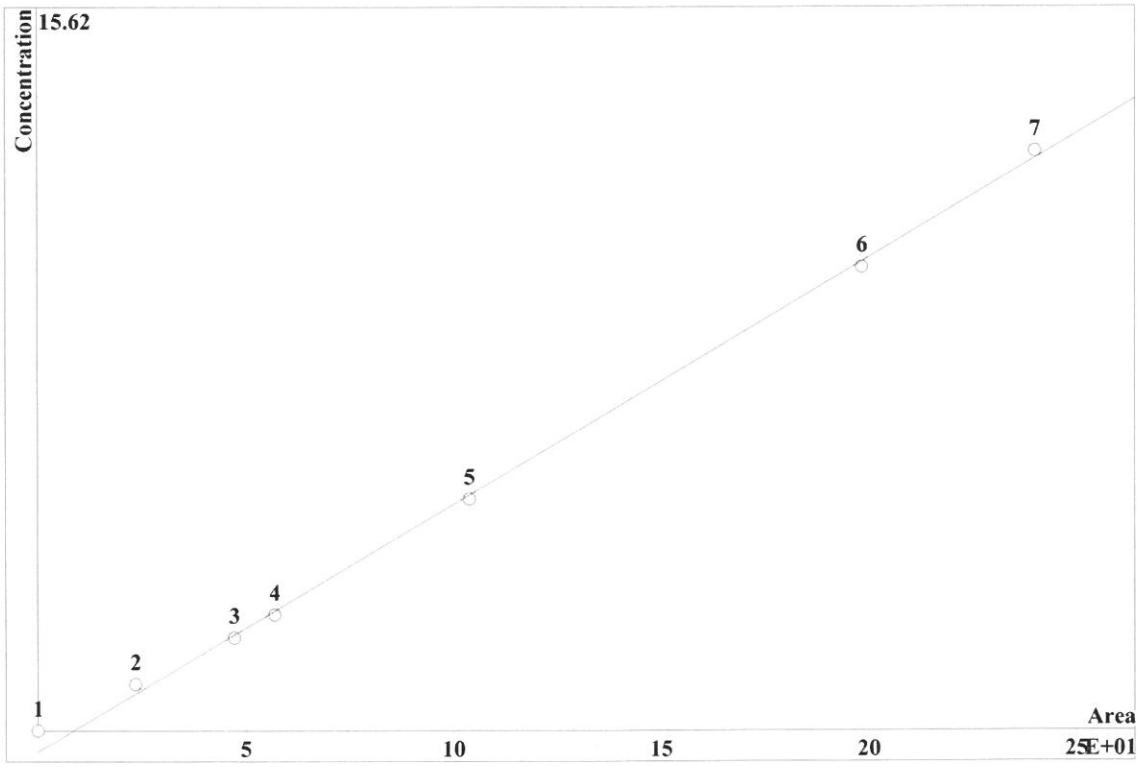


K3 = 0 K2 = 0 K1 = 0.483932 K0 = 3.34418
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	0.7355	17.43	0.5	20	17.65	Yes	
3	1.552	35.52	1	20	17.65	Yes	
4	1.953	45.01	1.25	20	17.65	Yes	
5	4.007	90.53	2.5	20	17.65	Yes	
6	8.482	196.4	5	20	17.65	Yes	
7	10.98	255.6	6.25	20	17.65	Yes	

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 03-09-21.mtw
Equation: Q = 1.06642·A - 9.04155
RSD: 2.884 %
Correlation coefficient: 0.999547

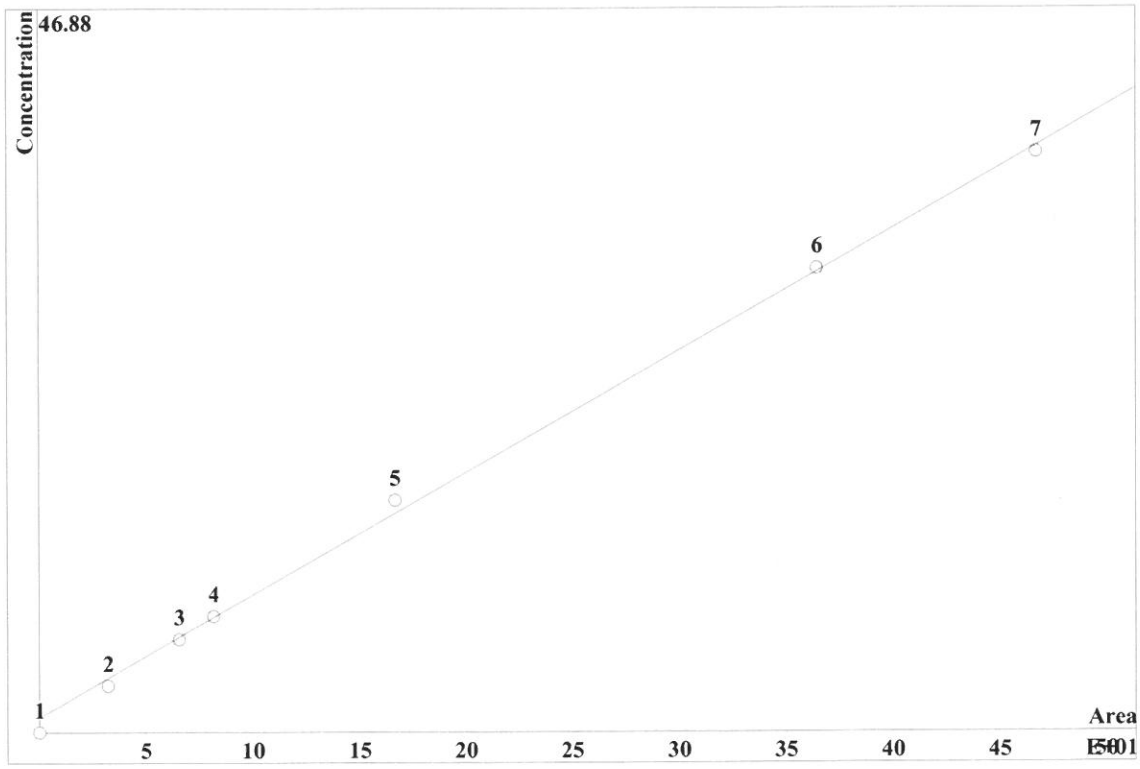


K3 = 0 K2 = 0 K1 = 1.06642 K0 = -9.04155
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	0.6282	23.35	1	20	23.03	Yes	
3	1.326	47.25	2	20	23.03	Yes	
4	1.621	56.87	2.5	20	23.03	Yes	
5	3.08	103.9	5	20	23.03	Yes	
6	6.03	198.4	10	20	23.03	Yes	
7	7.557	240	12.5	20	23.03	Yes	

CALIBRATION OF COMPONENT SO4

Method: ANIONS 03-09-21.mtw
Equation: Q = 1.58171·A + 19.4902
RSD: 3.342 %
Correlation coefficient: 0.999391



K3 = 0 K2 = 0 K1 = 1.58171 K0 = 19.4902
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

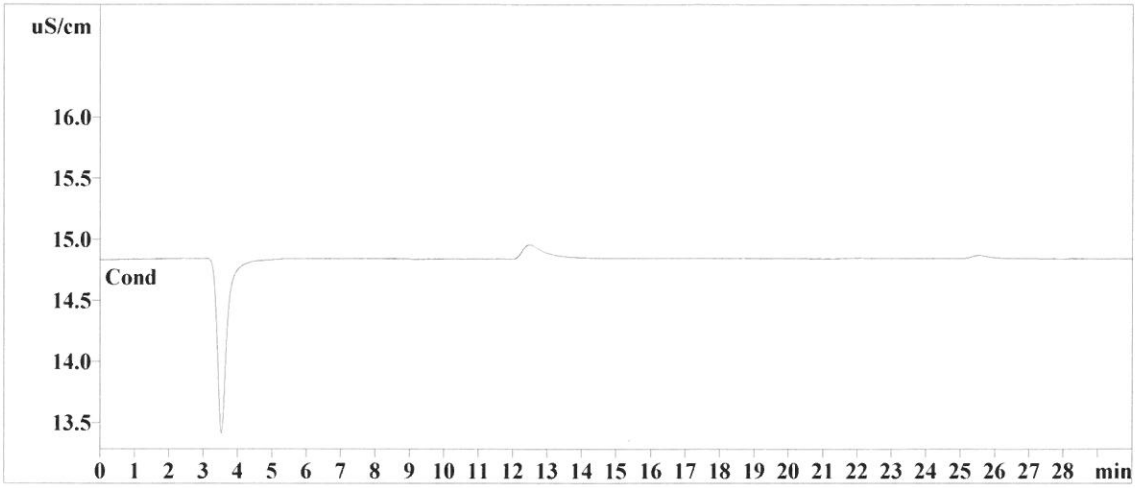
Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0	No	
2	1.068	32.15	3	20	26.99	Yes	
3	2.214	65.75	6	20	26.99	Yes	
4	2.773	81.78	7.5	20	26.99	Yes	
5	5.719	166.8	15	20	26.99	Yes	
6	12.24	364.3	30	20	26.99	Yes	
7	15.74	467.1	37.5	20	26.99	Yes	

Report date: 3/9/2021 2:10:21 PM
Printed by: wet

Ident: STD1
Analysis from: 3/9/2021 9:53:04 AM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73549

SAMPLE:
: AM/AP
Vial number: 2
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

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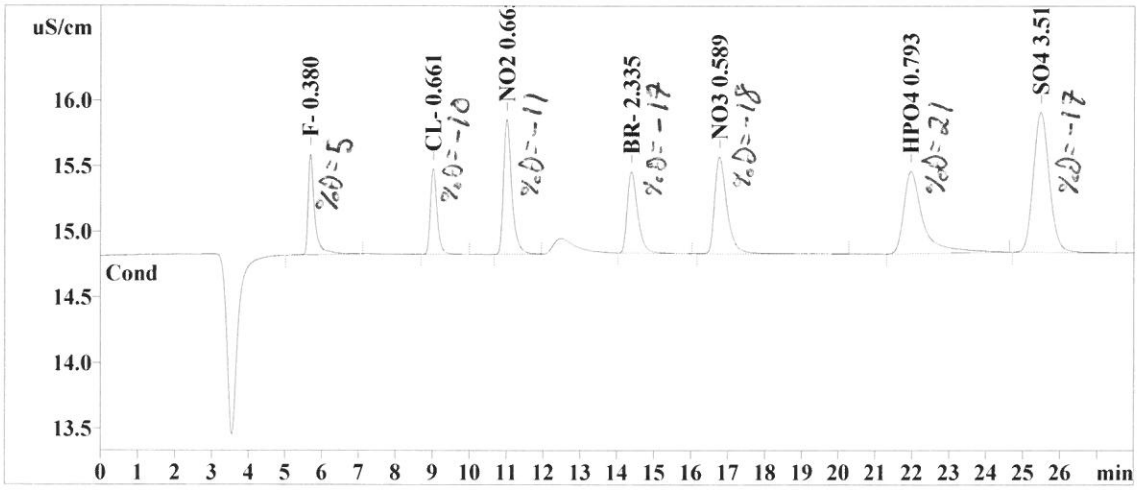
Report date: 3/9/2021 2:10:26 PM
Printed by: wet

Ident: STD2
Analysis from: 3/9/2021 10:25:57 AM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73550

SAMPLE:
: AM/AP
Vial number: 3
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.69	0.163	0.77	13.93	9.617	8.07	0.
2	9.01	0.189	0.65	11.83	8.293	6.96	0.
3	11.00	0.230	1.03	18.68	16.217	13.60	0.
4	14.39	0.290	0.62	11.27	12.146	10.19	0.
5	16.76	0.343	0.73	13.37	17.428	14.62	0.
6	21.96	0.485	0.63	11.43	23.346	19.59	0.
7	25.47	0.456	1.07	19.42	32.154	26.98	0.
7	28.00	0.308	5.49	99.93	119.201	100.00	0.

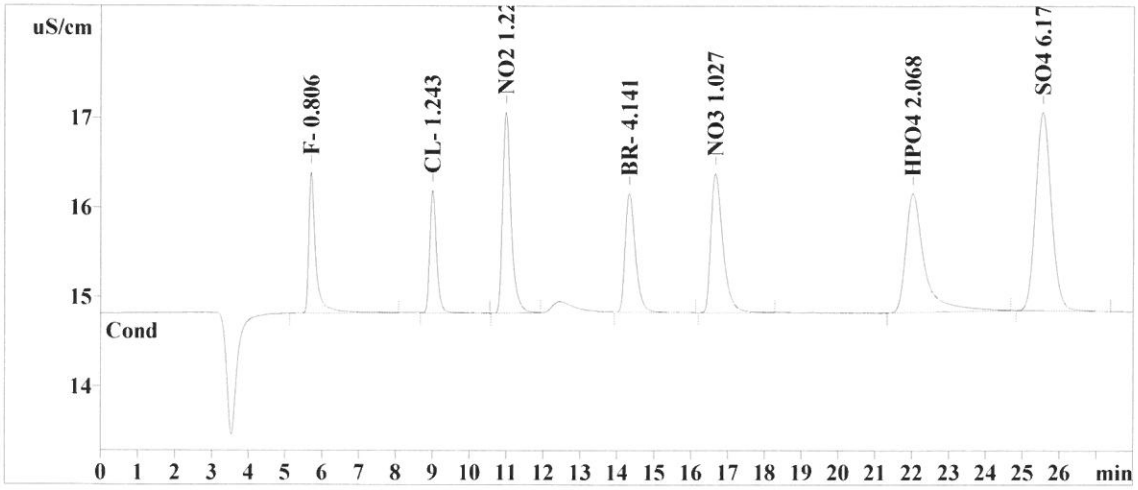
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:10:32 PM
Printed by: wet

Ident: STD3
Analysis from: 3/9/2021 11:04:02 AM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73551

SAMPLE:
: AM/AP
Vial number: 4
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.70	0.167	1.57	13.53	20.801	8.39	0.
2	9.00	0.191	1.36	11.77	17.647	7.11	0.
3	10.99	0.233	2.24	19.35	35.842	14.45	0.
4	14.32	0.284	1.32	11.41	25.232	10.17	0.
5	16.65	0.339	1.55	13.39	35.517	14.32	0.
6	22.02	0.473	1.33	11.43	47.255	19.05	0.
7	25.54	0.453	2.21	19.09	65.751	26.51	0.
7	28.00	0.306	11.59	99.98	248.045	100.00	0.

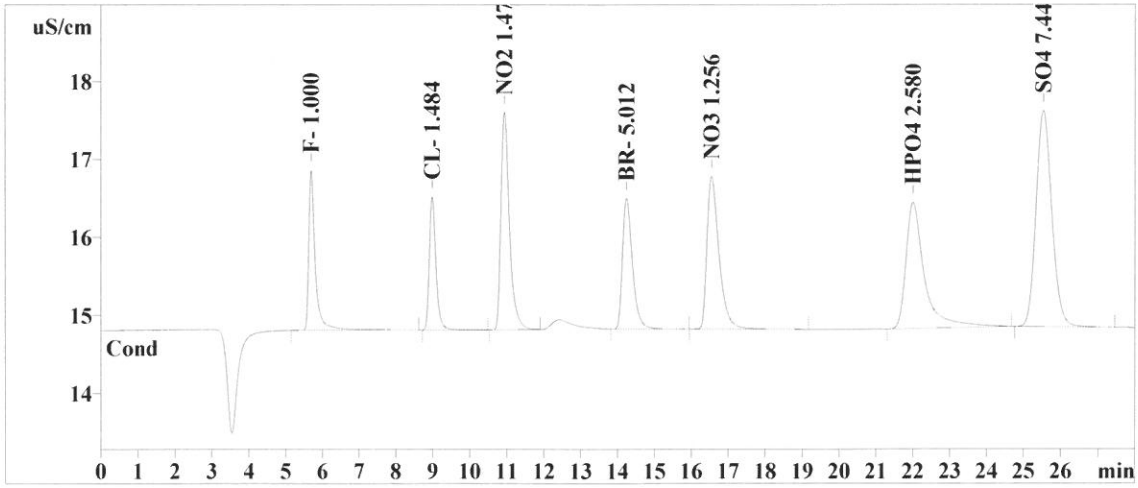
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:10:43 PM
Printed by: wet

Ident: STD4
Analysis from: 3/9/2021 11:34:57 AM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73552

SAMPLE:
: AM/AP
Vial number: 5
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.69	0.163	2.05	14.08	25.900	8.43	0.
2	8.98	0.187	1.70	11.71	21.511	7.00	0.
3	10.93	0.233	2.79	19.14	44.499	14.49	0.
4	14.23	0.281	1.67	11.48	31.544	10.27	0.
5	16.54	0.340	1.95	13.41	45.008	14.66	0.
6	22.00	0.468	1.62	11.13	56.868	18.52	0.
7	25.53	0.450	2.77	19.04	81.777	26.63	0.
7	28.00	0.303	14.56	99.99	307.107	100.00	0.

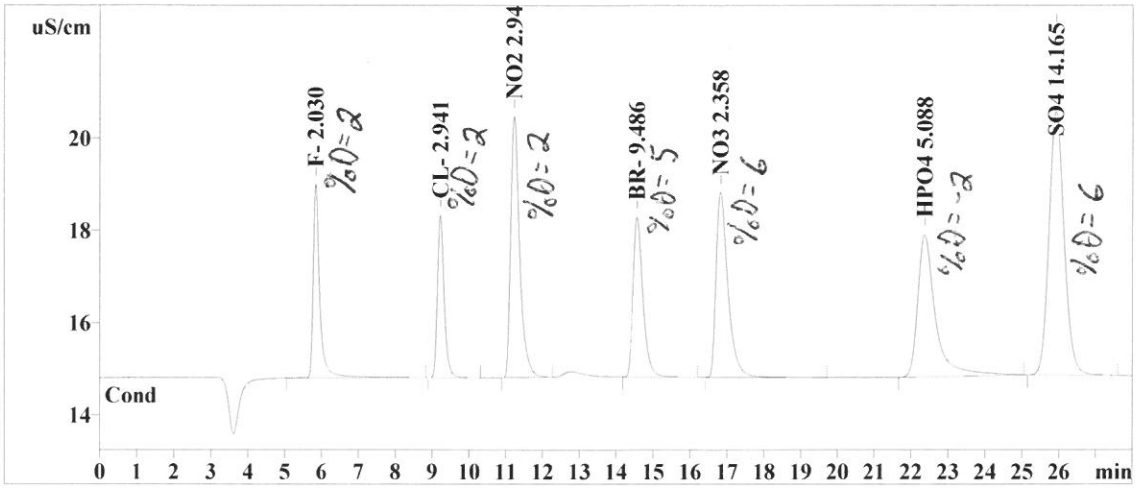
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:10:49 PM
Printed by: wet

Ident: STD5
Analysis from: 3/9/2021 12:05:51 PM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73553

SAMPLE:
: AM/AP
Vial number: 6
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.84	0.166	4.19	14.14	52.926	8.55	0.
2	9.22	0.190	3.51	11.85	44.902	7.26	0.
3	11.22	0.246	5.66	19.11	95.698	15.47	0.
4	14.56	0.276	3.46	11.67	63.963	10.34	0.
5	16.81	0.333	4.01	13.52	90.525	14.63	0.
6	22.36	0.456	3.08	10.39	103.905	16.79	0.
7	25.91	0.445	5.72	19.30	166.787	26.96	0.
7	28.00	0.302	29.63	99.99	618.707	100.00	0.

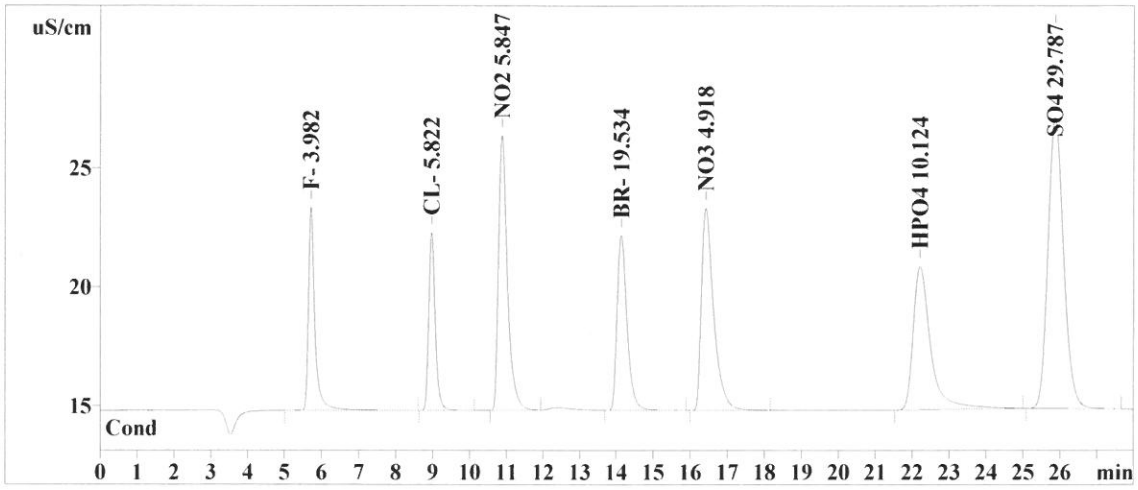
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:10:54 PM
Printed by: wet

Ident: STD6
Analysis from: 3/9/2021 12:36:46 PM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73554

SAMPLE:
: AM/AP
Vial number: 7
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.71	0.162	8.52	13.83	104.142	8.09	0.
2	8.96	0.180	7.47	12.12	91.142	7.08	0.
3	10.87	0.249	11.53	18.72	196.516	15.26	0.
4	14.13	0.279	7.34	11.91	136.765	10.62	0.
5	16.41	0.341	8.48	13.77	196.354	15.25	0.
6	22.21	0.453	6.03	9.79	198.352	15.40	0.
7	25.85	0.454	12.24	19.87	364.317	28.29	0.
7	28.00	0.303	61.61	100.00	1287.589	100.00	0.

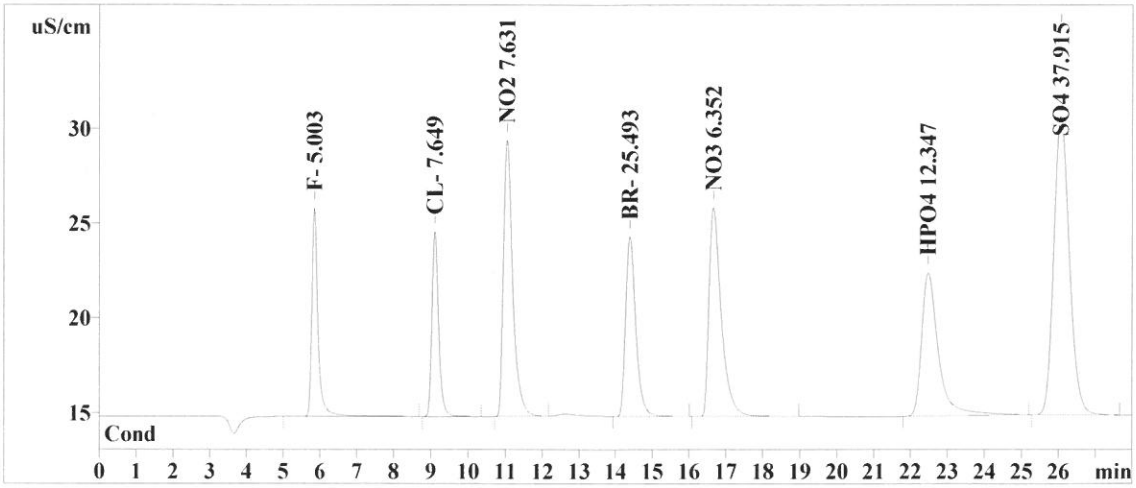
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:11:00 PM
Printed by: wet

Ident: STD7
Analysis from: 3/9/2021 1:07:41 PM
File: _2021-03-09_ Last save: 3/9/2021 2:10:10 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73555

SAMPLE:
: AM/AP
Vial number: 8
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.85	0.162	10.98	13.90	130.942	7.92	0.
2	9.10	0.184	9.72	12.31	120.469	7.29	0.
3	11.04	0.261	14.55	18.42	258.600	15.65	0.
4	14.38	0.285	9.46	11.97	179.940	10.89	0.
5	16.66	0.342	10.98	13.91	255.618	15.47	0.
6	22.48	0.441	7.56	9.57	240.037	14.52	0.
7	26.05	0.454	15.74	19.92	467.090	28.26	0.
7	28.00	0.304	78.99	100.00	1652.696	100.00	0.

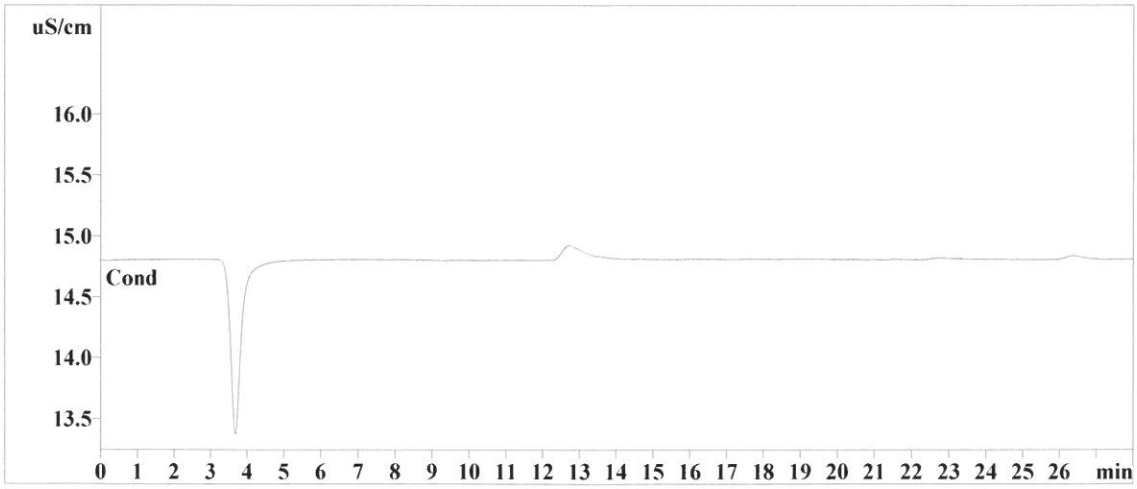
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:48:46 PM
Printed by: wet

Ident: ICB
Analysis from: 3/9/2021 2:12:46 PM
File: _2021-03-09_ Last save: 3/9/2021 2:48:32 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73557

SAMPLE:
: AM/AP
Vial number: 10
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

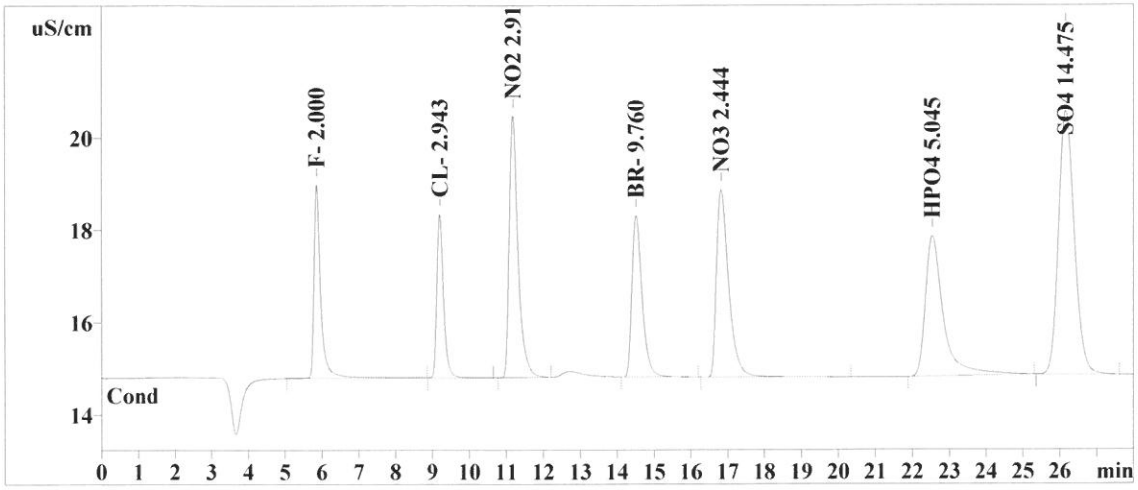
This report has been created by IC Net
METROHM LTD

Report date: 3/9/2021 2:47:19 PM
Printed by: wet

Ident: ICV
Analysis from: 3/9/2021 1:41:40 PM
File: _2021-03-09_ Last save: 3/9/2021 2:47:14 PM

Method: ANIONS 03-09-21.mtw Last save: 3/9/2021 1:04:34 PM
Run operator: wet
Analysis number: 73556

SAMPLE:
: AM/AP
Vial number: 9
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.85	0.164	4.18	14.09	52.139	8.34	0.
2	9.20	0.189	3.53	11.90	44.930	7.18	0.
3	11.17	0.243	5.66	19.09	94.592	15.12	0.
4	14.50	0.283	3.49	11.76	65.945	10.54	0.
5	16.81	0.342	4.05	13.66	94.112	15.05	0.
6	22.53	0.456	3.04	10.25	103.085	16.48	0.
7	26.16	0.457	5.71	19.25	170.704	27.29	0.
7	28.00	0.305	29.65	99.99	625.507	100.00	0.

This report has been created by IC Net
METROHM LTD

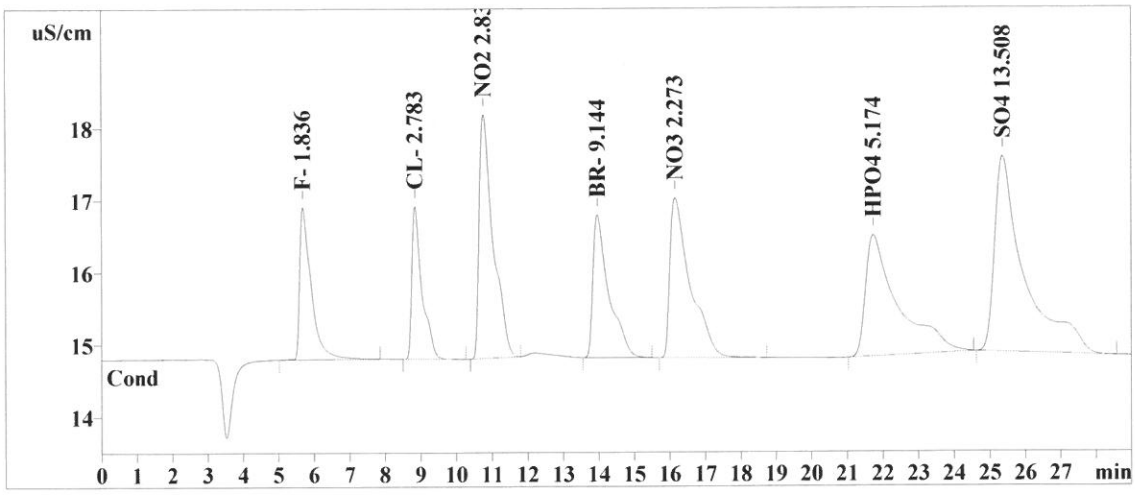
Report date: 3/26/2021 8:48:32 AM
Printed by: wet

Ident: CCV
Analysis from: 3/25/2021 1:35:11 PM
File: _2021-03-25_ Last save: 3/26/2021 8:48:26 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73829

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: METROSEP A Supp 5 250/4.0
Size: 4.0 x 250 mm
Number: 7401950
Part.size: 5.0 µm



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.69	0.328	2.11	13.02	47.834	8.05	0.
2	8.84	0.265	2.11	13.06	42.361	7.13	0.
3	10.76	0.376	3.38	20.89	91.641	15.42	0.
4	13.96	0.413	1.97	12.20	61.482	10.34	0.
5	16.15	0.524	2.21	13.69	87.029	14.64	0.
6	21.74	0.760	1.68	10.39	105.515	17.75	0.
7	25.37	0.678	2.71	16.75	158.475	26.66	0.
7	29.00	0.478	16.16	99.99	594.337	100.00	0.

This report has been created by IC Net
METROHM LTD

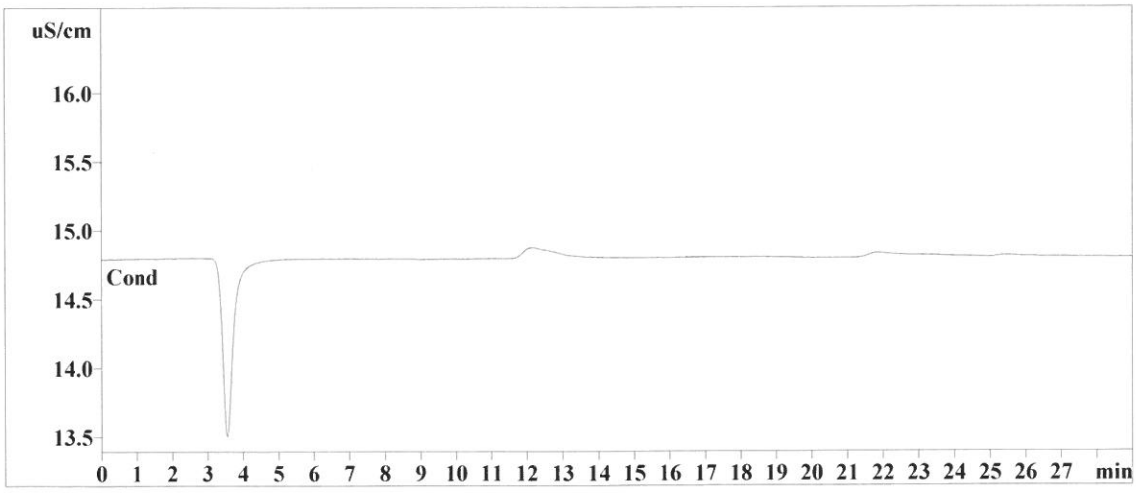
Report date: 3/26/2021 8:48:41 AM
Printed by: wet

Ident: CCB
Analysis from: 3/25/2021 2:07:36 PM
File: _2021-03-25_ Last save: 3/26/2021 8:48:26 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73830

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: METROSEP A Supp 5 250/4.0
Size: 4.0 x 250 mm
Number: 7401950
Part.size: 5.0 µm



Quantitation method: Custom

No peaks

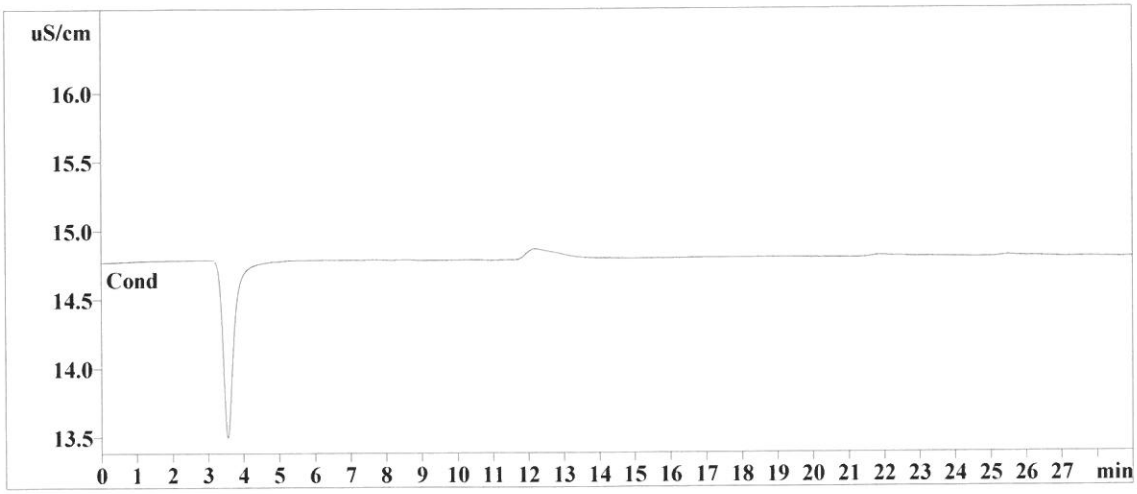
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:48:49 AM
Printed by: wet

Ident: LB113684BLW
Analysis from: 3/25/2021 2:39:29 PM
File: _2021-03-25_ Last save: 3/26/2021 8:35:02 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73831

SAMPLE:
: AM/AP
Vial number: 13
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

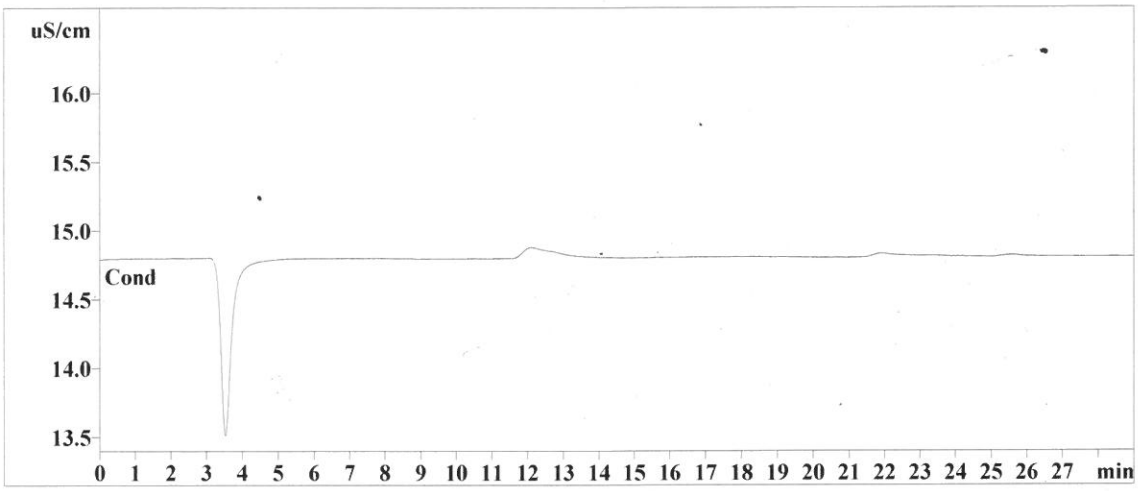
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:52:58 AM
Printed by: wet

Ident: CCB
Analysis from: 3/25/2021 8:30:23 PM
File: _2021-03-25_ Last save: 3/25/2021 8:59:12 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73842

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

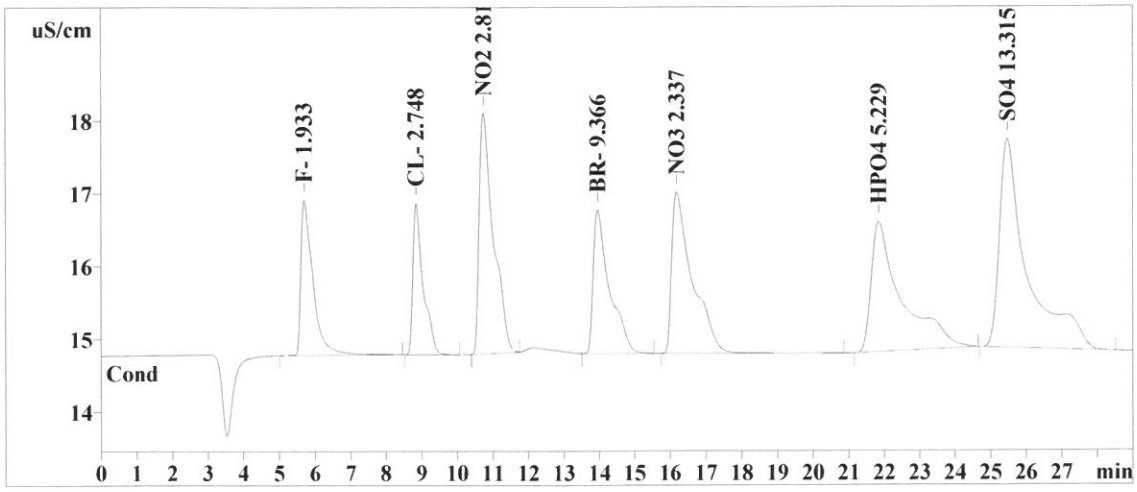
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:48:54 AM
Printed by: wet

Ident: LB113684BSW
Analysis from: 3/25/2021 3:11:23 PM
File: _2021-03-25_ Last save: 3/26/2021 8:35:02 AM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73832

SAMPLE:
: AM/AP
Vial number: 14
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.69	0.339	2.13	13.04	50.372	8.42	0.
2	8.84	0.266	2.07	12.67	41.797	6.98	0.
3	10.73	0.383	3.31	20.22	90.923	15.19	0.
4	13.95	0.417	1.97	12.06	63.092	10.54	0.
5	16.18	0.531	2.21	13.54	89.675	14.98	0.
6	21.84	0.673	1.79	10.93	106.551	17.80	0.
7	25.47	0.597	2.87	17.52	156.035	26.07	0.
7	29.00	0.458	16.35	99.98	598.446	100.00	0.

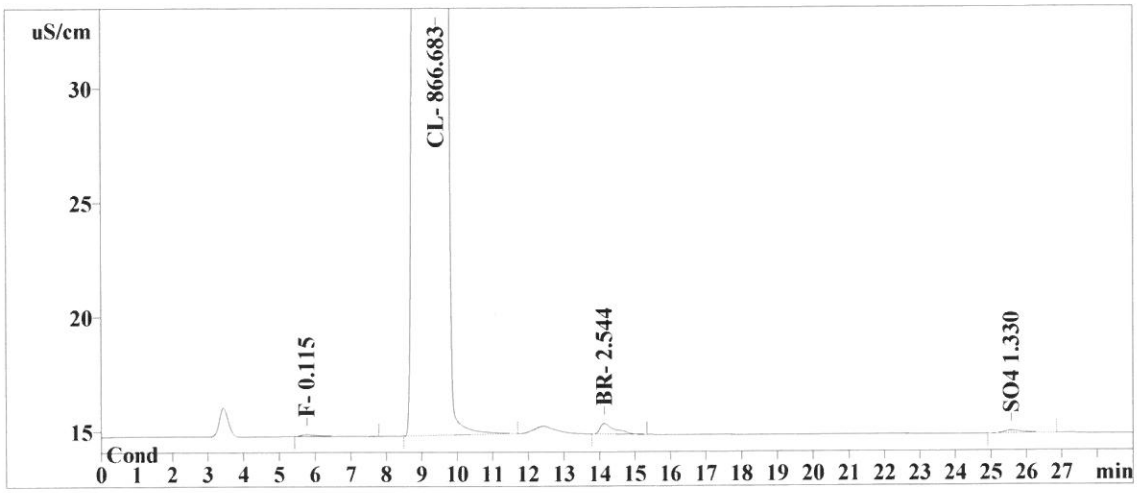
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:49:37 AM
Printed by: wet

Ident: M1770-20X5
Analysis from: 3/25/2021 4:15:12 PM
File: _2021-03-25_ Last save: 3/25/2021 4:44:00 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73834

SAMPLE:
: AM/AP
Vial number: 52
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.76	0.461	0.07	0.02	2.676	0.02	0.
2	9.41	0.489	443.31	99.80	13909.409	99.85	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	14.13	0.377	0.47	0.11	13.661	0.10	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.57	0.538	0.12	0.03	4.491	0.03	0.
7	29.00	0.267	443.97	99.95	13930.237	100.00	0.

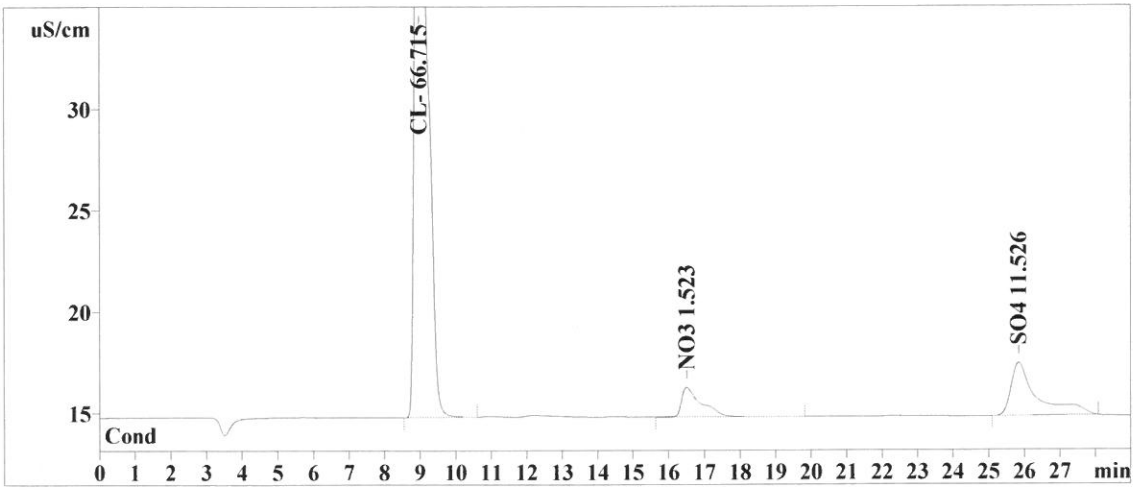
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:50:30 AM
Printed by: wet

Ident: M1770-21X5
Analysis from: 3/25/2021 4:47:06 PM
File: _2021-03-25_ Last save: 3/26/2021 8:50:18 AM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:50:26 AM
Run operator: wet
Analysis number: 73835

SAMPLE:
: AM/AP
Vial number: 53
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.96	0.214	62.77	93.91	1068.585	84.94	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.50	0.488	1.45	2.17	56.022	4.45	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.84	0.549	2.62	3.92	133.413	10.60	0.
7	29.00	0.179	66.84	100.00	1258.019	100.00	0.

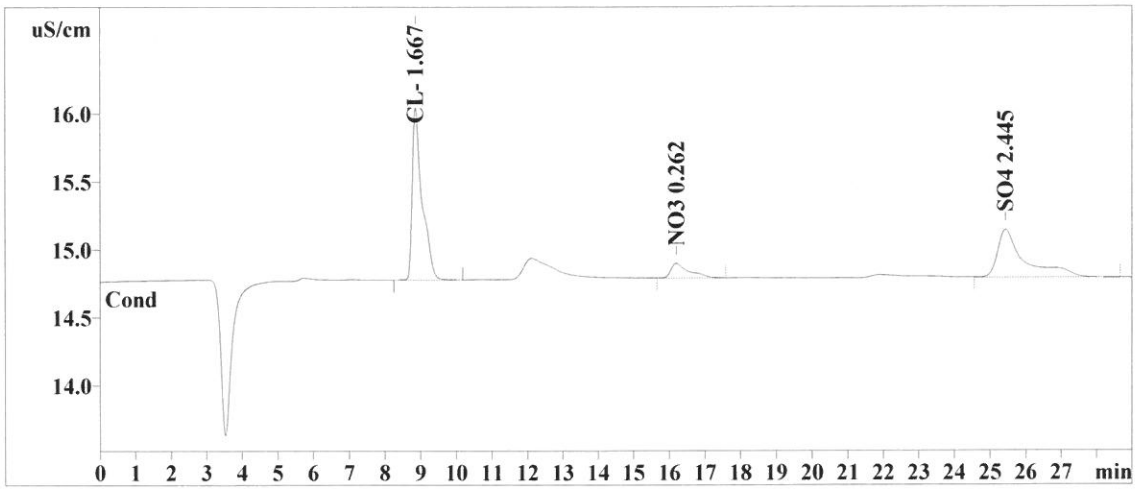
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:51:11 AM
Printed by: wet

Ident: M1770-22X5
Analysis from: 3/25/2021 5:19:00 PM
File: _2021-03-25_ Last save: 3/25/2021 5:47:48 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73836

SAMPLE:
: AM/AP
Vial number: 54
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.85	0.252	1.27	73.28	24.442	52.07	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.19	0.450	0.11	6.30	3.906	8.32	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.43	0.561	0.35	20.29	18.590	39.61	0.
7	29.00	0.180	1.73	99.87	46.938	100.00	0.

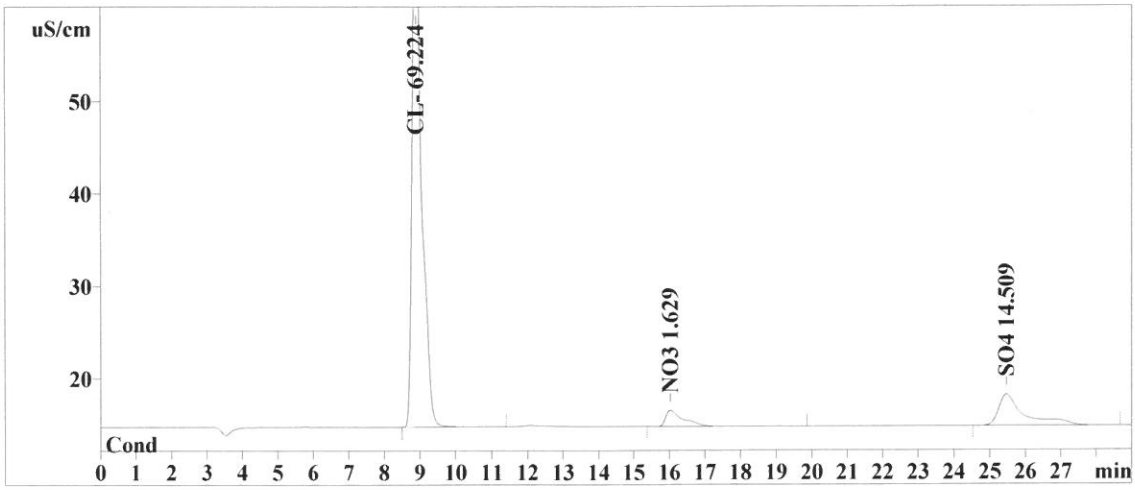
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:51:35 AM
Printed by: wet

Ident: M1770-23X5
Analysis from: 3/25/2021 5:50:54 PM
File: _2021-03-25_ Last save: 3/25/2021 6:19:42 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73837

SAMPLE:
: AM/AP
Vial number: 55
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.88	0.208	68.85	93.09	1108.853	82.73	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.02	0.449	1.73	2.34	60.412	4.51	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.46	0.559	3.38	4.57	171.134	12.77	0.
7	29.00	0.174	73.95	100.00	1340.399	100.00	0.

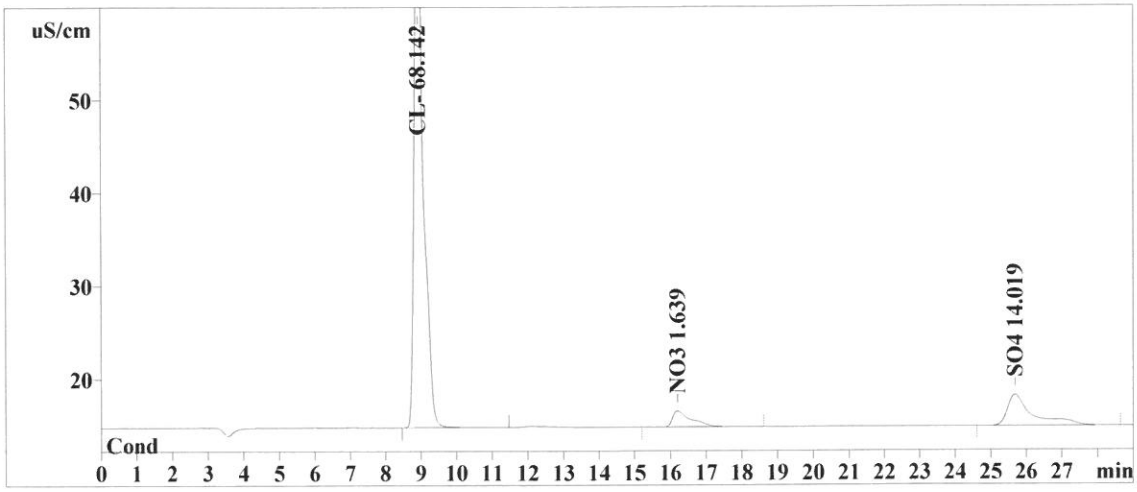
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:52:08 AM
Printed by: wet

Ident: M1770-24X5
Analysis from: 3/25/2021 6:22:48 PM
File: _2021-03-25_ Last save: 3/25/2021 6:51:36 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73838

SAMPLE:
: AM/AP
Vial number: 56
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.91	0.207	68.49	93.14	1091.488	82.86	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.20	0.471	1.70	2.32	60.825	4.62	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.69	0.547	3.35	4.55	164.936	12.52	0.
7	29.00	0.175	73.55	100.01	1317.250	100.00	0.

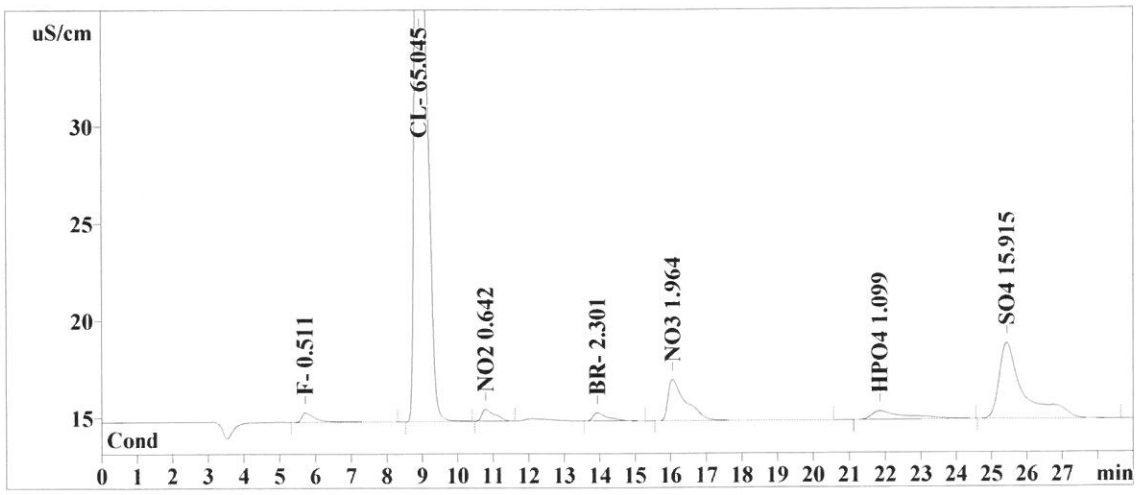
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:52:24 AM
Printed by: wet

Ident: M1770-24MSX5
Analysis from: 3/25/2021 6:54:42 PM
File: _2021-03-25_ Last save: 3/25/2021 7:23:30 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73839

SAMPLE:
: AM/AP
Vial number: 57
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.71	0.349	0.48	0.66	13.061	0.95	0.
2	8.90	0.205	65.57	89.14	1041.770	75.80	0.
3	10.80	0.420	0.60	0.82	15.411	1.12	0.
4	13.94	0.368	0.42	0.58	11.900	0.87	0.
5	16.05	0.455	2.13	2.89	74.261	5.40	0.
6	21.84	0.743	0.45	0.61	29.092	2.12	0.
7	25.43	0.541	3.90	5.30	188.915	13.75	0.
7	29.00	0.440	73.55	99.99	1374.410	100.00	0.

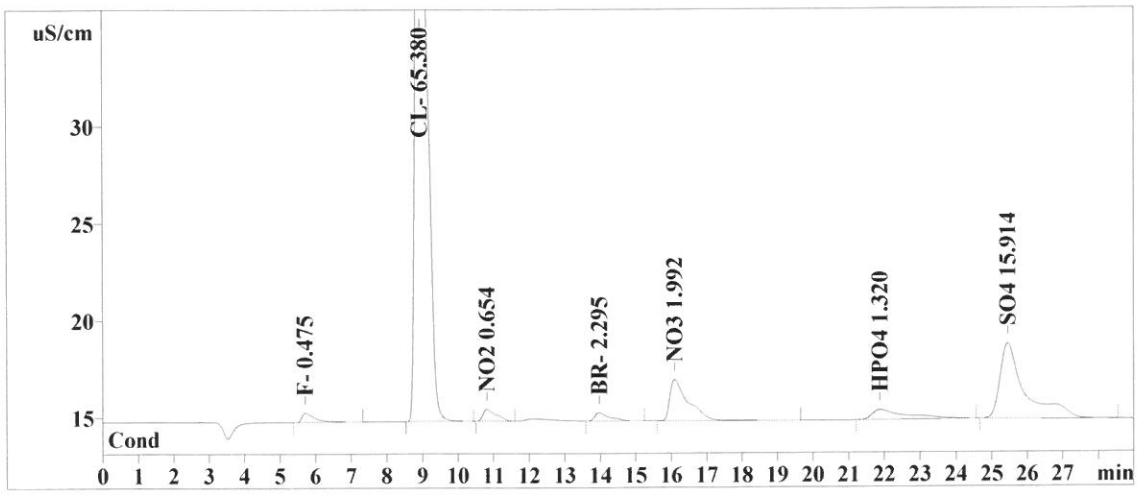
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:52:33 AM
Printed by: wet

Ident: M1770-24MSDX5
Analysis from: 3/25/2021 7:26:35 PM
File: _2021-03-25_ Last save: 3/25/2021 7:55:24 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73840

SAMPLE:
: AM/AP
Vial number: 58
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.71	0.348	0.47	0.64	12.133	0.88	0.
2	8.92	0.207	65.61	89.11	1047.154	75.63	0.
3	10.82	0.423	0.62	0.84	15.803	1.14	0.
4	13.97	0.368	0.42	0.57	11.856	0.86	0.
5	16.09	0.467	2.12	2.88	75.413	5.45	0.
6	21.89	0.742	0.52	0.70	33.232	2.40	0.
7	25.45	0.548	3.87	5.26	188.904	13.64	0.
7	29.00	0.443	73.62	99.99	1384.497	100.00	0.

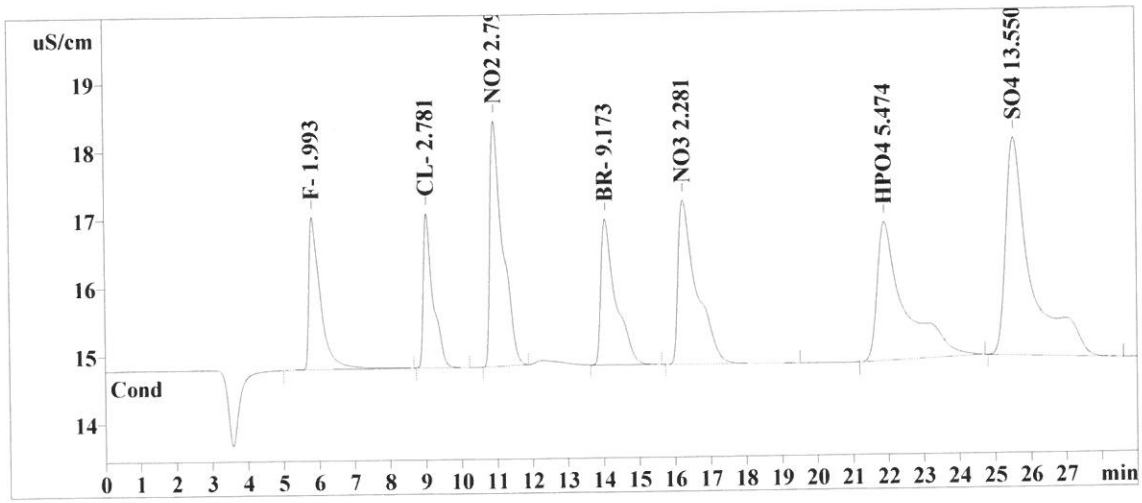
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 8:52:41 AM
Printed by: wet

Ident: CCV
Analysis from: 3/25/2021 7:58:29 PM
File: _2021-03-25_ Last save: 3/25/2021 8:27:18 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73841

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.81	0.327	2.24	12.50	51.964	8.61	0.
2	9.04	0.242	2.27	12.66	42.332	7.01	0.
3	10.93	0.349	3.61	20.15	90.352	14.96	0.
4	14.06	0.370	2.14	11.95	61.695	10.22	0.
5	16.24	0.467	2.41	13.46	87.376	14.47	0.
6	21.90	0.581	2.04	11.38	111.146	18.41	0.
7	25.54	0.552	3.20	17.88	159.010	26.33	0.
7	29.00	0.413	17.91	99.99	603.876	100.00	0.

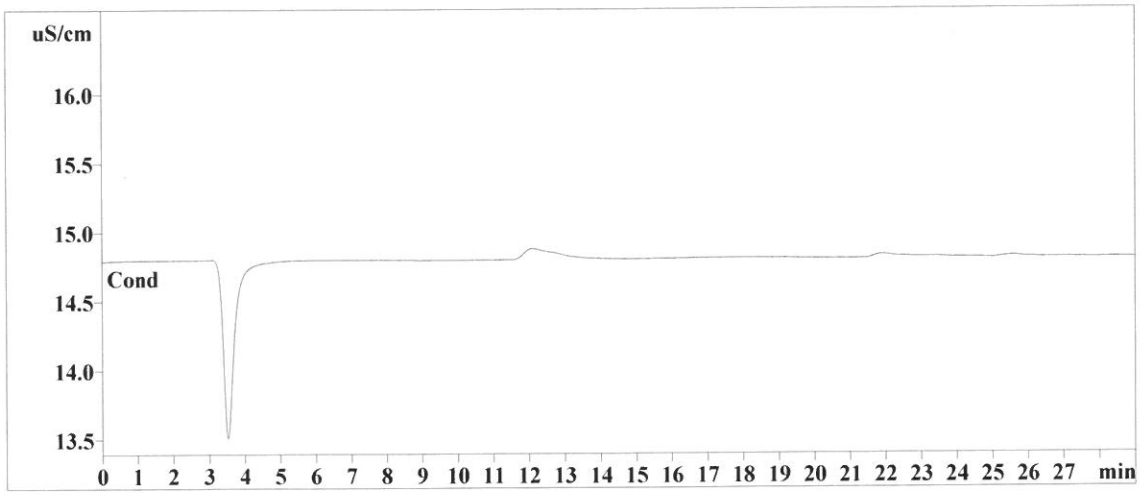
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:26:01 PM
Printed by: wet

Ident: CCB
Analysis from: 3/25/2021 8:30:23 PM
File: _2021-03-25_ Last save: 3/25/2021 8:59:12 PM

Method: ANIONS 03-09-21.mtw Last save: 3/19/2021 4:28:14 PM
Run operator: wet
Analysis number: 73842

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

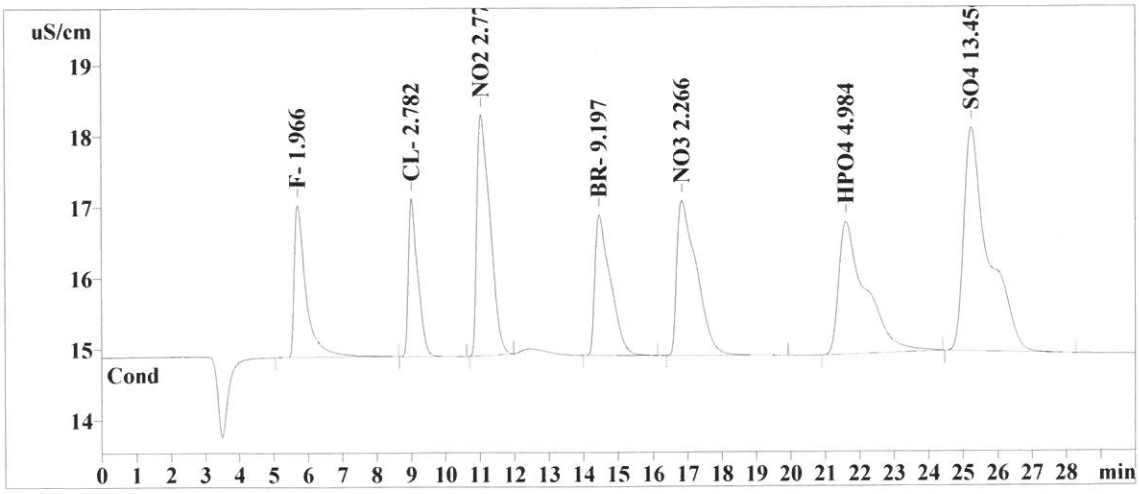
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:26:11 PM
Printed by: wet

Ident: CCV
Analysis from: 3/26/2021 8:50:48 AM
File: _2021-03-26_ Last save: 3/26/2021 9:20:36 AM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73847

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.70	0.310	2.14	12.62	51.253	8.66	0.
2	9.00	0.293	2.22	13.13	42.348	7.16	0.
3	11.02	0.431	3.39	20.05	89.690	15.16	0.
4	14.45	0.503	1.98	11.67	61.865	10.46	0.
5	16.83	0.652	2.18	12.87	86.726	14.66	0.
6	21.61	0.710	1.87	11.05	101.949	17.23	0.
7	25.24	0.600	3.15	18.60	157.821	26.67	0.
7	30.00	0.500	16.93	99.99	591.651	100.00	0.

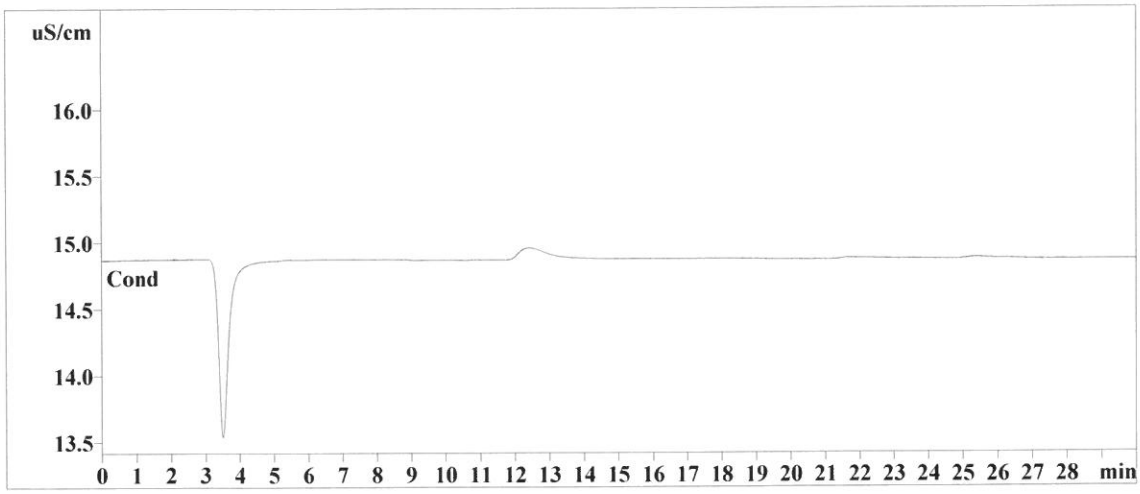
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:26:20 PM
Printed by: wet

Ident: CCB
Analysis from: 3/26/2021 9:26:05 AM
File: _2021-03-26_ Last save: 3/26/2021 9:55:52 AM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73848

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

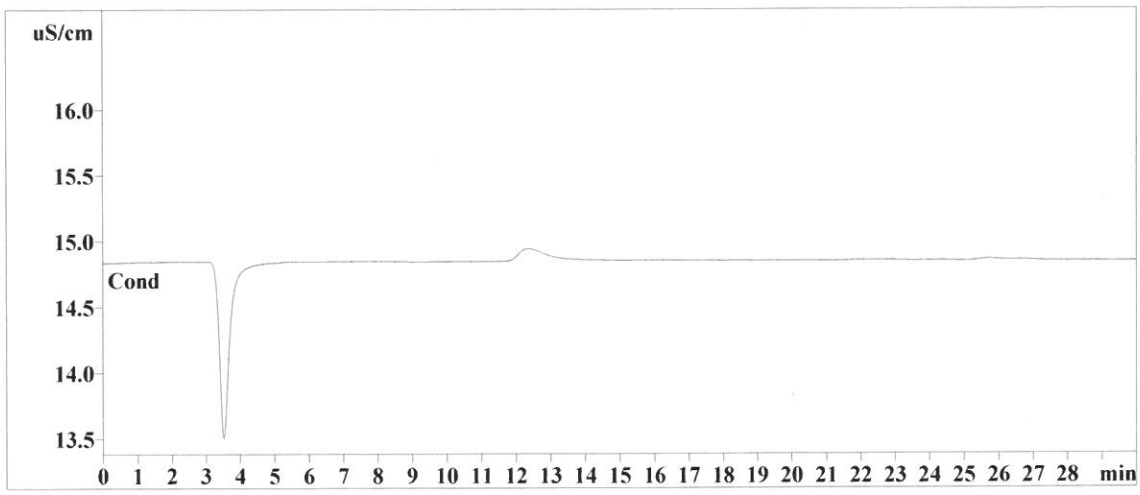
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:26:28 PM
Printed by: wet

Ident: LB113684BLW2
Analysis from: 3/26/2021 9:58:59 AM
File: _2021-03-26_ Last save: 3/26/2021 10:28:46 AM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73849

SAMPLE:
: AM/AP
Vial number: 13
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

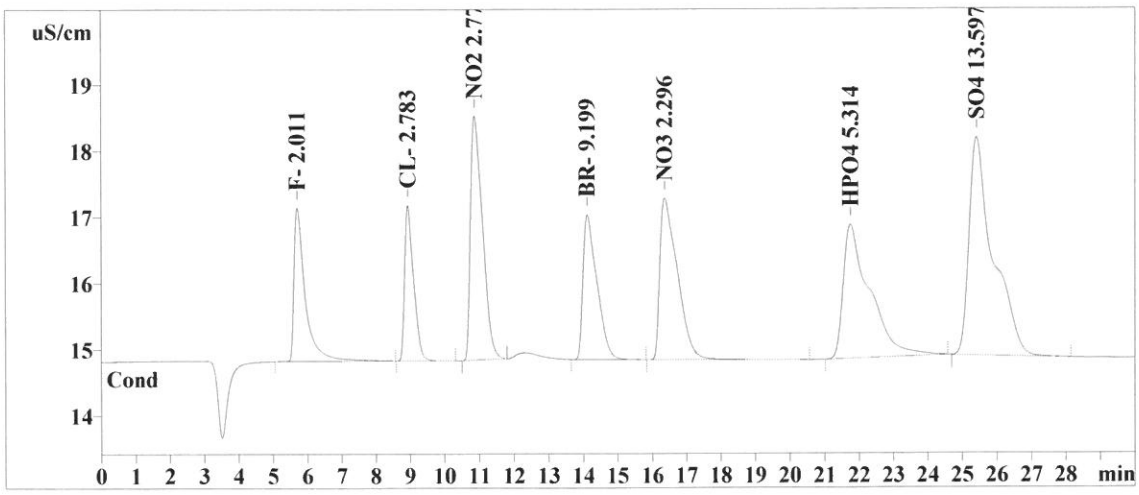
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:26:37 PM
Printed by: wet

Ident: LB113684BSW2
Analysis from: 3/26/2021 10:31:52 AM
File: _2021-03-26_ Last save: 3/26/2021 11:01:40 AM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73850

SAMPLE:
: AM/AP
Vial number: 14
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.71	0.292	2.32	12.66	52.439	8.71	0.
2	8.92	0.278	2.34	12.81	42.354	7.04	0.
3	10.85	0.391	3.69	20.14	89.637	14.89	0.
4	14.10	0.447	2.19	11.96	61.882	10.28	0.
5	16.35	0.579	2.44	13.34	87.987	14.61	0.
6	21.74	0.821	2.03	11.07	108.134	17.96	0.
7	25.41	0.600	3.30	18.01	159.605	26.51	0.
7	30.00	0.487	18.30	99.98	602.037	100.00	0.

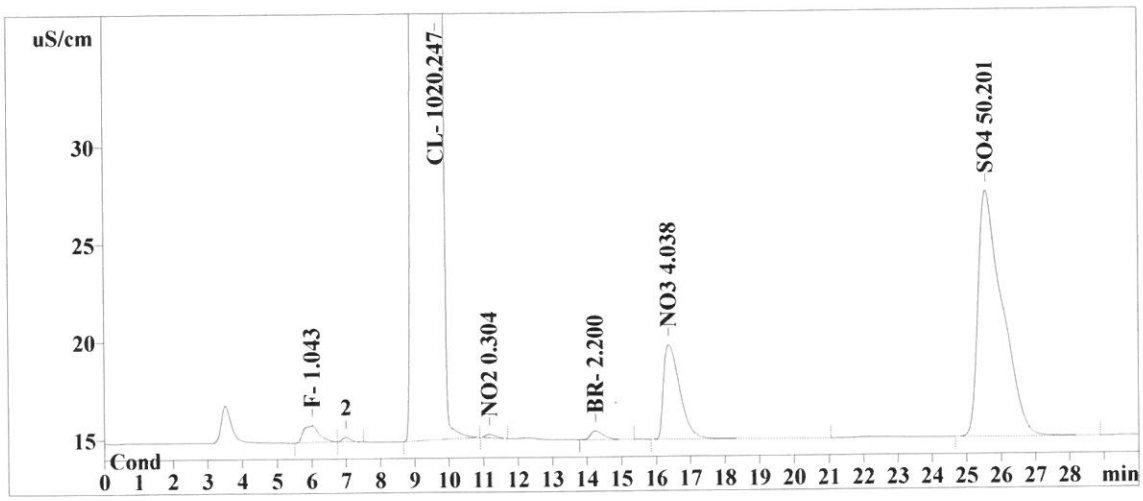
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:26:49 PM
Printed by: wet

Ident: M1763-03
Analysis from: 3/26/2021 11:04:46 AM
File: _2021-03-26_ Last save: 3/26/2021 11:34:34 AM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73851

SAMPLE:
: AM/AP
Vial number: 61
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	6.01	0.482	0.87	0.16	27.023	0.16	0.
2	9.64	0.539	508.29	96.31	16374.367	95.19	0.
3	11.16	0.329	0.18	0.03	3.651	0.02	0.
4	14.23	0.389	0.44	0.08	11.169	0.06	0.
5	16.38	0.512	4.82	0.91	159.987	0.93	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.57	0.780	12.59	2.39	622.453	3.62	0.
7	30.00	0.433	527.19	99.89	17198.651	99.98	0.

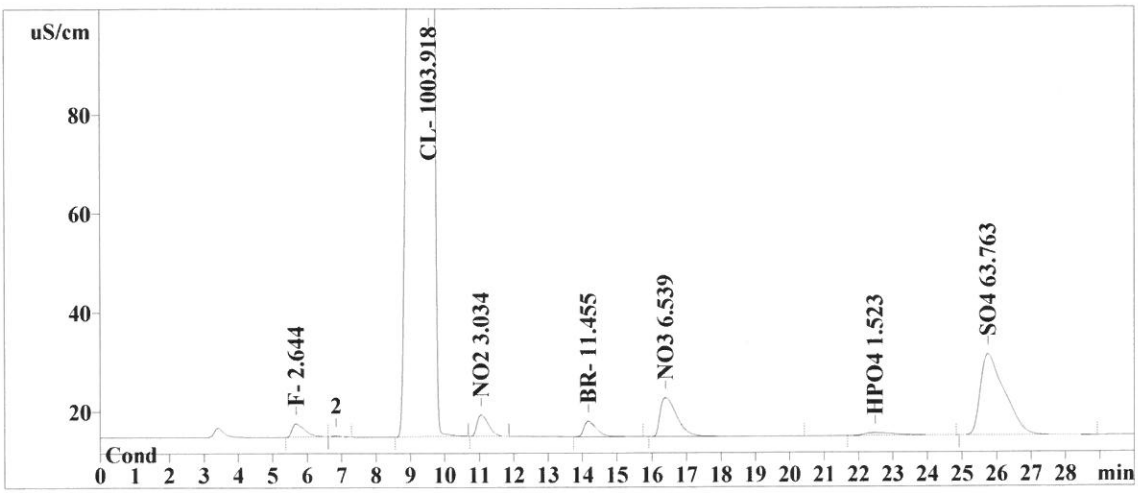
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:27:44 PM
Printed by: wet

Ident: M1763-03MS
Analysis from: 3/26/2021 11:37:39 AM
File: _2021-03-26_ Last save: 3/26/2021 12:07:28 PM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73852

SAMPLE:
: AM/AP
Vial number: 62
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.68	0.395	2.70	0.50	69.030	0.40	0.
2	9.53	0.538	500.71	93.38	16112.260	92.30	0.
3	11.06	0.366	4.28	0.80	98.651	0.57	0.
4	14.17	0.381	3.13	0.58	78.229	0.45	0.
5	16.40	0.517	7.84	1.46	263.328	1.51	0.
6	22.47	1.024	0.54	0.10	37.041	0.21	0.
7	25.75	0.771	16.39	3.06	793.928	4.55	0.
7	30.00	0.570	535.59	99.89	17452.467	99.98	0.

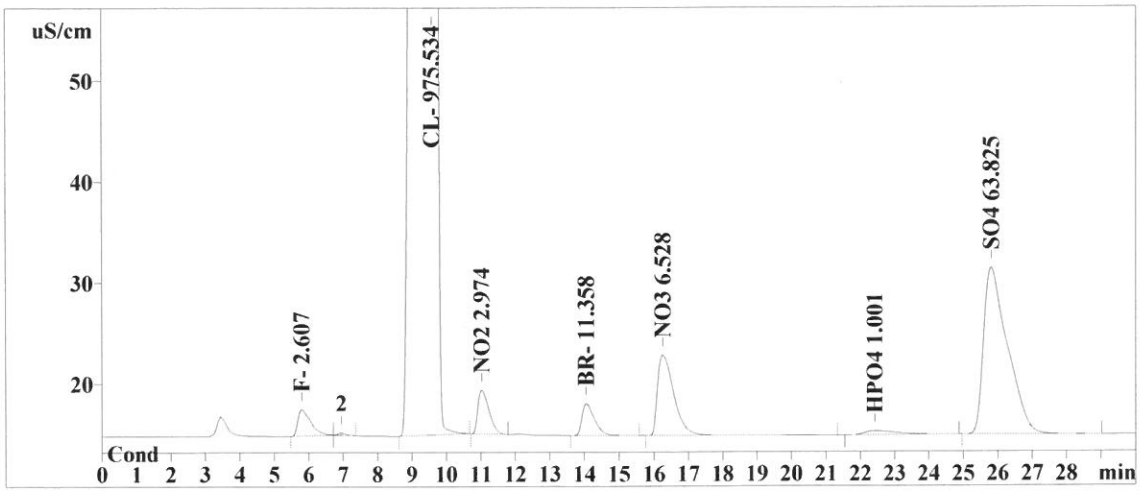
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:27:53 PM
Printed by: wet

Ident: M1763-03MSD
Analysis from: 3/26/2021 12:10:33 PM
File: _2021-03-26_ Last save: 3/26/2021 12:40:20 PM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73853

SAMPLE:
: AM/AP
Vial number: 63
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.80	0.402	2.62	0.49	68.066	0.40	0.
2	9.56	0.524	499.99	93.39	15656.660	92.17	0.
3	11.03	0.354	4.33	0.81	96.559	0.57	0.
4	14.05	0.376	3.15	0.59	77.524	0.46	0.
5	16.26	0.509	7.94	1.48	262.867	1.55	0.
6	22.43	1.013	0.40	0.08	27.255	0.16	0.
7	25.81	0.758	16.50	3.08	794.712	4.68	0.
7	30.00	0.562	534.93	99.91	16983.643	99.98	0.

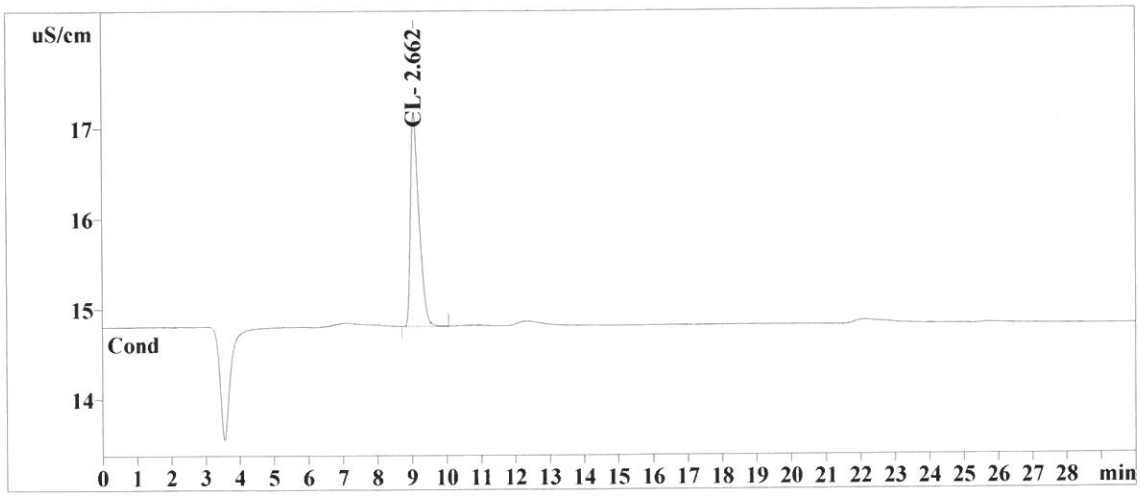
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:28:56 PM
Printed by: wet

Ident: M1770-20DLX1000
Analysis from: 3/26/2021 12:43:27 PM
File: _2021-03-26_ Last save: 3/26/2021 1:13:14 PM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73854

SAMPLE:
: AM/AP
Vial number: 64
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.05	0.258	2.37	99.99	40.418	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	30.00	0.037	2.37	99.99	40.418	100.00	0.

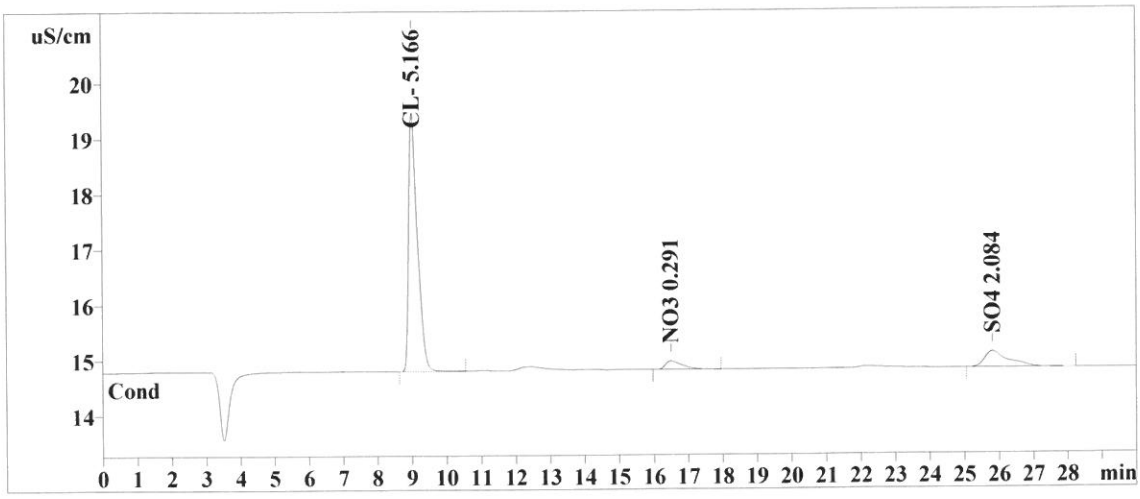
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:29:02 PM
Printed by: wet

Ident: M1770-21DLX50
Analysis from: 3/26/2021 1:16:20 PM
File: _2021-03-26_ Last save: 3/26/2021 1:46:08 PM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73855

SAMPLE:
: AM/AP
Vial number: 65
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.01	0.259	4.67	91.32	80.610	80.80	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.49	0.522	0.15	2.98	5.127	5.14	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.80	0.631	0.29	5.67	14.031	14.06	0.
7	30.00	0.202	5.11	99.97	99.768	100.00	0.

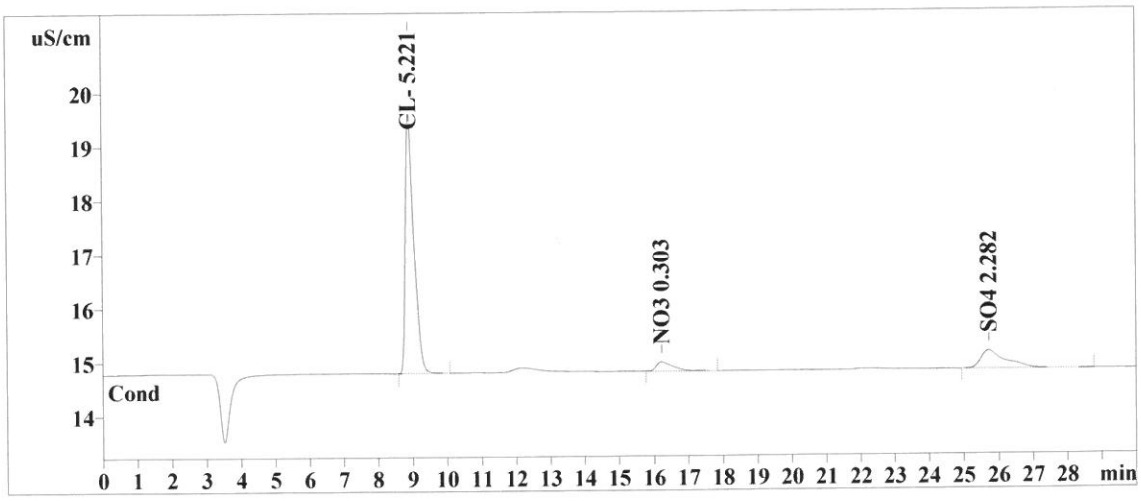
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 2:32:34 PM
Printed by: wet

Ident: M1770-23DLX50
Analysis from: 3/26/2021 1:49:14 PM
File: _2021-03-26_ Last save: 3/26/2021 2:19:02 PM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73856

SAMPLE:
: AM/AP
Vial number: 66
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.89	0.253	4.81	90.45	81.491	78.65	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.22	0.502	0.17	3.18	5.597	5.40	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.71	0.632	0.34	6.35	16.529	15.95	0.
7	30.00	0.198	5.32	99.97	103.618	100.00	0.

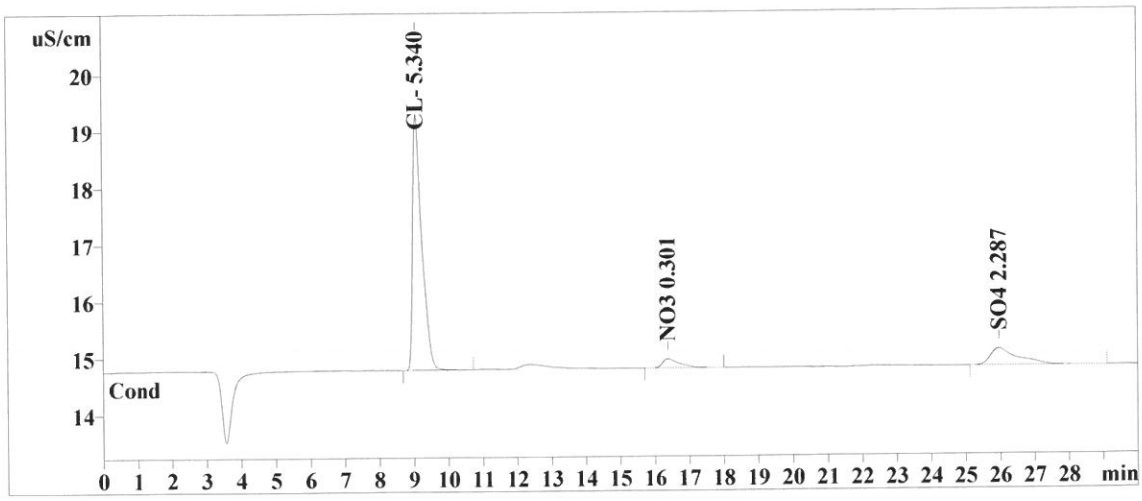
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 3:27:28 PM
Printed by: wet

Ident: M1770-24DLX50
Analysis from: 3/26/2021 2:22:07 PM
File: _2021-03-26_ Last save: 3/26/2021 2:51:56 PM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73857

SAMPLE:
: AM/AP
Vial number: 67
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.07	0.272	4.51	90.77	83.404	79.03	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	16.38	0.512	0.16	3.20	5.542	5.25	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.95	0.722	0.30	5.99	16.592	15.72	0.
7	30.00	0.215	4.96	99.96	105.539	100.00	0.

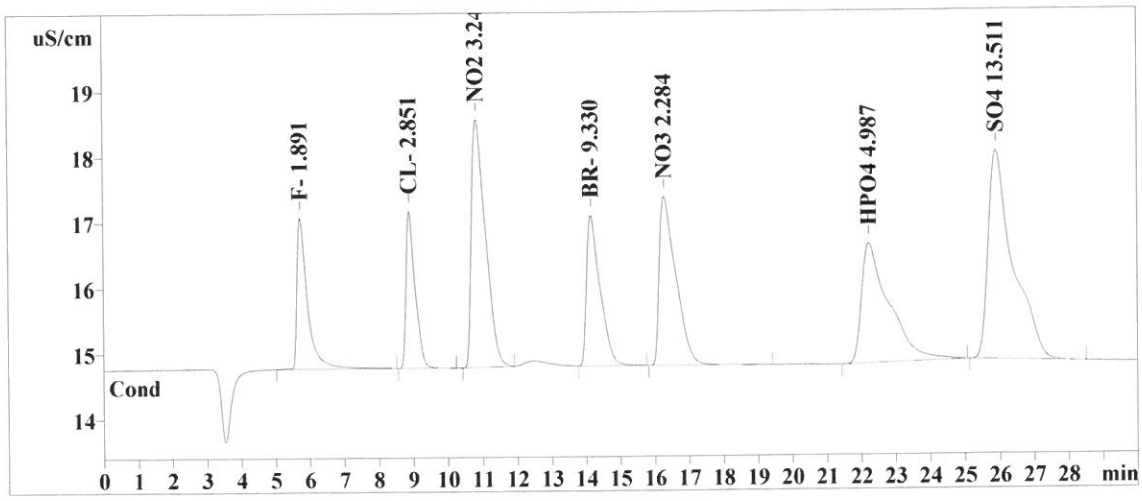
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 3:27:35 PM
Printed by: wet

Ident: CCV
Analysis from: 3/26/2021 2:55:01 PM
File: _2021-03-26_ Last save: 3/26/2021 3:24:48 PM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73858

SAMPLE:
: AM/AP
Vial number: 11
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.73	0.287	2.30	12.54	49.273	8.08	0.
2	8.88	0.272	2.39	13.02	43.448	7.13	0.
3	10.82	0.448	3.78	20.59	106.019	17.39	0.
4	14.13	0.416	2.29	12.50	62.834	10.31	0.
5	16.28	0.537	2.57	14.03	87.470	14.35	0.
6	22.23	0.794	1.83	9.97	101.998	16.73	0.
7	25.90	0.649	3.18	17.34	158.514	26.00	0.
7	30.00	0.486	18.35	99.99	609.556	100.00	0.

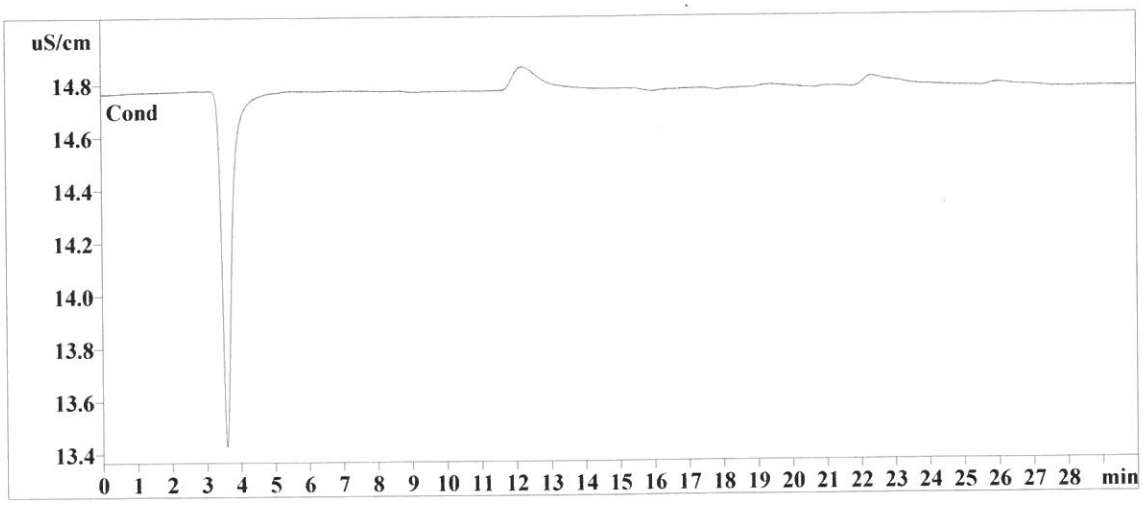
This report has been created by IC Net
METROHM LTD

Report date: 3/26/2021 3:58:55 PM
Printed by: wet

Ident: CCB
Analysis from: 3/26/2021 3:27:54 PM
File: _2021-03-26_ Last save: 3/26/2021 3:57:42 PM

Method: ANIONS 03-09-21.mtw Last save: 3/26/2021 8:53:12 AM
Run operator: wet
Analysis number: 73859

SAMPLE:
: AM/AP
Vial number: 12
Volume: 20.0 µL
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB113629

Review By	Alexander	Review On	3/29/2021 9:15:11 AM
Supervise By	apatel	Supervise On	3/29/2021 11:48:03 AM

STD. NAME	STD REF.#
ICAL Standard	WP89842,WP89843,WP89844,WP89845,WP89846,WP89847,WP89848
ICV Standard	WP89850
CCV Standard	WP90123,WP90135
ICSA Standard	N/A
CRI Standard	N/A
Chk Standard	WP89648,WP89651,WP90148,WP90151

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	03/09/21 09:53	All standards, samples, and	AM/AP	OK
2	STD2	STD2	CAL2	03/09/21 10:25	QC are filtered through	AM/AP	OK
3	STD3	STD3	CAL3	03/09/21 11:04	0.45um,filter lot #191125354	AM/AP	OK
4	STD4	STD4	CAL4	03/09/21 11:34		AM/AP	OK
5	STD5	STD5	CAL5	03/09/21 12:05		AM/AP	OK
6	STD6	STD6	CAL6	03/09/21 12:36		AM/AP	OK
7	STD7	STD7	CAL7	03/09/21 13:07		AM/AP	OK
8	ICV1	ICV1	ICV	03/09/21 13:41		AM/AP	OK
9	ICB1	ICB1	ICB	03/09/21 14:12		AM/AP	OK
10	CCV1	CCV1	CCV	03/23/21 09:38		AM/AP	OK
11	CCB1	CCB1	CCB	03/23/21 10:18		AM/AP	OK
12	LB113629BLW	LB113629BLW	MB	03/23/21 10:50		AM/AP	OK
13	LB113629BSW	LB113629BSW	LCS	03/23/21 11:22		AM/AP	OK
14	M1770-02	MW-106I	SAM	03/23/21 11:54	CL high	AM/AP	Dilution
15	M1770-03	MW-106S	SAM	03/23/21 12:26	CL high	AM/AP	Dilution
16	M1770-06	MW-105D	SAM	03/23/21 12:58	CL high	AM/AP	Dilution
17	M1770-07	MW-105I	SAM	03/23/21 13:30	CL high	AM/AP	Dilution
18	M1770-08	MW-105S	SAM	03/23/21 14:02	CL high	AM/AP	Dilution
19	M1770-04	MW-106SMS	MS	03/23/21 14:33	9.5ml of sample,0.5mL W2799	AM/AP	OK
20	M1770-05	MW-106SMSD	MSD	03/23/21 15:05	9.5ml of sample,0.5mL W2799	AM/AP	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB113629

Review By	Alexander	Review On	3/29/2021 9:15:11 AM
Supervise By	apatel	Supervise On	3/29/2021 11:48:03 AM

STD. NAME	STD REF.#
ICAL Standard	WP89842,WP89843,WP89844,WP89845,WP89846,WP89847,WP89848
ICV Standard	WP89850
CCV Standard	WP90123,WP90135
ICSA Standard	N/A
CRI Standard	N/A
Chk Standard	WP89648,WP89651,WP90148,WP90151

21	CCV2	CCV2	CCV	03/23/21 15:37		AM/AP	OK
22	CCB2	CCB2	CCB	03/23/21 16:11		AM/AP	OK
23	M1770-02DL	MW-106IDL	SAM	03/23/21 16:43	400X for CL	AM/AP	Confirms
24	M1770-03DL	MW-106SDL	SAM	03/23/21 17:14	100X for CL	AM/AP	Confirms
25	M1770-06DL	MW-105DDL	SAM	03/23/21 17:46	500X for CL	AM/AP	Confirms
26	M1770-07DL	MW-105IDL	SAM	03/23/21 18:18	100X for CL	AM/AP	Confirms
27	M1770-08DL	MW-105SDL	SAM	03/23/21 18:50	200X for CL	AM/AP	Confirms
28	CCV3	CCV3	CCV	03/23/21 19:22		AM/AP	OK
29	CCB3	CCB3	CCB	03/23/21 19:54		AM/AP	OK
30	CCV4	CCV4	CCV	03/24/21 08:55		AM/AP	OK
31	CCB4	CCB4	CCB	03/24/21 09:40		AM/AP	OK
32	LB113629BLW2	LB113629BLW2	MB	03/24/21 10:12		AM/AP	OK
33	LB113629BSW2	LB113629BSW2	LCS	03/24/21 10:44		AM/AP	OK
34	M1770-10	MW-106D	SAM	03/24/21 11:16		AM/AP	OK
35	M1770-11	MW-104D	SAM	03/24/21 11:48	CL high	AM/AP	Dilution
36	M1770-15	MW-101S	SAM	03/24/21 13:55	CL high	AM/AP	Dilution
37	M1770-16	MW-101I	SAM	03/24/21 14:27	CL high	AM/AP	Dilution
38	M1770-17	MW-101D	SAM	03/24/21 14:59	CL high	AM/AP	Dilution
39	CCV5	CCV5	CCV	03/24/21 15:31		AM/AP	OK
40	CCB5	CCB5	CCB	03/24/21 16:03		AM/AP	OK
41	M1770-18	FB-03232021	SAM	03/24/21 16:35		AM/AP	OK
42	M1770-10MS	MW-106DMS	MS	03/24/21 17:07	9.5ml of sample,0.5mL W2799	AM/AP	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB113629

Review By	Alexander	Review On	3/29/2021 9:15:11 AM
Supervise By	apatel	Supervise On	3/29/2021 11:48:03 AM

STD. NAME	STD REF.#
ICAL Standard	WP89842,WP89843,WP89844,WP89845,WP89846,WP89847,WP89848
ICV Standard	WP89850
CCV Standard	WP90123,WP90135
ICSA Standard	N/A
CRI Standard	N/A
Chk Standard	WP89648,WP89651,WP90148,WP90151

43	M1770-10MSD	MW-106DMSD	MSD	03/24/21 17:39	9.5ml of sample,0.5mL W2799	AM/AP	OK
44	M1770-11DL	MW-104DDL	SAM	03/24/21 18:10	2000X for CL	AM/AP	Confirms
45	M1770-12	MW-104I	SAM	03/24/21 18:42		AM/AP	OK
46	M1770-13	MW-103D	SAM	03/24/21 19:14		AM/AP	OK
47	M1770-14	MW-103I	SAM	03/24/21 19:46		AM/AP	OK
48	M1770-15DL	MW-101SDL	SAM	03/24/21 20:18	50X for CL	AM/AP	Confirms
49	M1770-16DL	MW-101IDL	SAM	03/24/21 20:50	50X for CL	AM/AP	Confirms
50	M1770-17DL	MW-101DDL	SAM	03/24/21 21:22	100X for CL	AM/AP	Confirms
51	CCV6	CCV6	CCV	03/24/21 21:54		AM/AP	OK
52	CCB6	CCB6	CCB	03/24/21 22:26		AM/AP	OK

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Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB113684

Review By	Alexander	Review On	3/30/2021 9:25:32 AM
Supervise By	apatel	Supervise On	3/30/2021 1:58:30 PM

STD. NAME	STD REF.#
ICAL Standard	WP89842,WP89843,WP89844,WP89845,WP89846,WP89847,WP89848
ICV Standard	WP89850
CCV Standard	WP90167,WP90181
ICSA Standard	N/A
CRI Standard	N/A
Chk Standard	WP90148,WP90151

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	03/09/21 09:53	All standards, samples, and	AM/AP	OK
2	STD2	STD2	CAL2	03/09/21 10:25	QC are filtered through	AM/AP	OK
3	STD3	STD3	CAL3	03/09/21 11:04	0.45um,filter lot #191125354	AM/AP	OK
4	STD4	STD4	CAL4	03/09/21 11:34		AM/AP	OK
5	STD5	STD5	CAL5	03/09/21 12:05		AM/AP	OK
6	STD6	STD6	CAL6	03/09/21 12:36		AM/AP	OK
7	STD7	STD7	CAL7	03/09/21 13:07		AM/AP	OK
8	ICV1	ICV1	ICV	03/09/21 13:41		AM/AP	OK
9	ICB1	ICB1	ICB	03/09/21 14:12		AM/AP	OK
10	CCV1	CCV1	CCV	03/25/21 13:35		AM/AP	OK
11	CCB1	CCB1	CCB	03/25/21 14:07		AM/AP	OK
12	LB113684BLW	LB113684BLW	MB	03/25/21 14:39		AM/AP	OK
13	LB113684BSW	LB113684BSW	LCS	03/25/21 15:11		AM/AP	OK
14	M1770-20	MW-103S	SAM	03/25/21 16:15	CL high	AM/AP	Dilution
15	M1770-21	MW-102D	SAM	03/25/21 16:47	CL high	AM/AP	Dilution
16	M1770-22	MW-102S	SAM	03/25/21 17:19		AM/AP	OK
17	M1770-23	MW-102I	SAM	03/25/21 17:50	CL high	AM/AP	Dilution
18	M1770-24	MW-107I	SAM	03/25/21 18:22	CL high	AM/AP	Dilution
19	M1770-24MS	MW-107IMS	MS	03/25/21 18:54		AM/AP	OK
20	M1770-24MSD	MW-107IMSD	MSD	03/25/21 19:26		AM/AP	OK

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB113684

Review By	Alexander	Review On	3/30/2021 9:25:32 AM
Supervise By	apatel	Supervise On	3/30/2021 1:58:30 PM

STD. NAME	STD REF.#
ICAL Standard	WP89842,WP89843,WP89844,WP89845,WP89846,WP89847,WP89848
ICV Standard	WP89850
CCV Standard	WP90167,WP90181
ICSA Standard	N/A
CRI Standard	N/A
Chk Standard	WP90148,WP90151

21	CCV2	CCV2	CCV	03/25/21 19:58		AM/AP	OK
22	CCB2	CCB2	CCB	03/25/21 20:30		AM/AP	OK
23	CCV3	CCV3	CCV	03/26/21 08:50		AM/AP	OK
24	CCB3	CCB3	CCB	03/26/21 09:26		AM/AP	OK
25	LB113684BLW2	LB113684BLW2	MB	03/26/21 09:58		AM/AP	OK
26	LB113684BSW2	LB113684BSW2	LCS	03/26/21 10:31		AM/AP	OK
27	M1763-03	EL-509-WATER-SAMI	SAM	03/26/21 11:04		AM/AP	OK
28	M1763-03MS	EL-509-WATER-SAMI	MS	03/26/21 11:37	9.5ml of sample,0.5mL W2799	AM/AP	OK
29	M1763-03MSD	EL-509-WATER-SAMI	MSD	03/26/21 12:10	9.5ml of sample,0.5mL W2799	AM/AP	OK
30	M1770-20DL	MW-103SDL	SAM	03/26/21 12:43	1000X for CL	AM/AP	Confirms
31	M1770-21DL	MW-102DDL	SAM	03/26/21 13:16	50X for CL	AM/AP	Confirms
32	M1770-23DL	MW-102IDL	SAM	03/26/21 13:49	50X for CL	AM/AP	Confirms
33	M1770-24DL	MW-107IDL	SAM	03/26/21 14:22	50X for CL	AM/AP	Confirms
34	CCV4	CCV4	CCV	03/26/21 14:55		AM/AP	OK
35	CCB4	CCB4	CCB	03/26/21 15:27		AM/AP	OK

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Prep Standard - Chemical Standard Summary

Order ID : M1770

Test : Anions Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: LB113629,LB113684,

Standard ID :
WP89641,WP89648,WP89651,WP89842,WP89843,WP89844,WP89845,WP89846,WP89847,WP89848,WP89850,WP90123,WP90124,WP90135,WP90136,WP90148,WP90151,WP90167,WP90168,WP90181,WP90182,

Chemical ID :
W2606,W2607,W2609,W2620,W2647,W2740,

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
440	IC ELUENT CONCENTRATE	WP89641	02/24/2021	08/24/2021	Alexander Milano	WETCHEM_SCALE_4 (WCSC-4)	None	Amit Patel 02/25/2021

FROM 33.90000gram of W2607 + 8.40000gram of W2647 + 957.70000ml of W2606 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
441	IC ELUENT	WP89648	02/24/2021	03/24/2021	Alexander Milano	None	Glass Pipette-A	Amit Patel 02/25/2021

FROM 1980.00000ml of W2606 + 20.00000ml of WP89641 = Final Quantity: 2000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
455	IC H2SO4	WP89651	02/24/2021	03/24/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 02/25/2021

FROM 2.80000ml of W2609 + 3997.20000ml of W2606 = Final Quantity: 4000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2487	Anions 300/9056 calibration standard 1	WP89842	03/09/2021	03/10/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/09/2021

FROM 10.00000ml of W2606 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
24	Anions 300/9056 calibration standard 2	WP89843	03/09/2021	03/10/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/09/2021

FROM 0.20000ml of W2740 + 9.80000ml of W2606 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
25	Anions 300/9056 calibration standard 3	WP89844	03/09/2021	03/10/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/09/2021

FROM 0.40000ml of W2740 + 9.60000ml of W2606 = Final Quantity: 10.000 ml

CHEMTECH

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
26	Anions 300/9056 calibration standard 4	WP89845	03/09/2021	03/10/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/09/2021

FROM 0.50000ml of W2740 + 9.50000ml of W2606 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3680	Anions 300/9056 calibration standard 5-CCV	WP89846	03/09/2021	03/10/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/09/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2740 = Final Quantity: 50.000 ml

CHEMTECH

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3679	Anions 300/9056 calibration standard 6	WP89847	03/09/2021	03/10/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/09/2021

FROM 2.00000ml of W2740 + 8.00000ml of W2606 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3681	Anions 300/9056 calibration standard 7	WP89848	03/09/2021	03/10/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/09/2021

FROM 2.50000ml of W2740 + 7.50000ml of W2606 = Final Quantity: 10.000 ml

CHEMTECH

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP89850	03/09/2021	03/10/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/09/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2620 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3680	Anions 300/9056 calibration standard 5-CCV	WP90123	03/23/2021	03/24/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/23/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2740 = Final Quantity: 50.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP90124	03/23/2021	03/24/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/23/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2620 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3680	Anions 300/9056 calibration standard 5-CCV	WP90135	03/24/2021	03/25/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/24/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2740 = Final Quantity: 50.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP90136	03/24/2021	03/25/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/24/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2620 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
441	IC ELUENT	WP90148	03/24/2021	04/24/2021	Alexander Milano	None	Glass Pipette-A	Amit Patel 03/24/2021

FROM 1980.00000ml of W2606 + 20.00000ml of WP89641 = Final Quantity: 2000.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
455	IC H2SO4	WP90151	03/24/2021	04/24/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/24/2021

FROM 3997.20000ml of W2606 = Final Quantity: 4000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3680	Anions 300/9056 calibration standard 5-CCV	WP90167	03/25/2021	03/26/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/25/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2740 = Final Quantity: 50.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP90168	03/25/2021	03/26/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/25/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2620 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3680	Anions 300/9056 calibration standard 5-CCV	WP90181	03/26/2021	03/27/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/26/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2740 = Final Quantity: 50.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3233	Anions 300/9056 ICV-LCS std	WP90182	03/26/2021	03/27/2021	Alexander Milano	None	WETCHEM_PIPETTE_1 (WA)	Amit Patel 03/26/2021

FROM 45.00000ml of W2606 + 5.00000ml of W2620 = Final Quantity: 50.000 ml

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	19D165205	11/01/2029	05/04/2020 / ketankumar	11/01/2019 / apatel	W2607

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000215588	10/30/2023	11/05/2019 / jignesh	11/05/2019 / jignesh	W2609

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	300-CAL-A-500ML / 300.0 Calibration Standard, 500 ml	P2-MEB678300	07/06/2021	07/06/2020 / Alexander	11/19/2019 / apatel	W2620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3506-5 / SODIUM BICARBONATE, PWD, ACS, 2.5KG	0000240594	06/03/2026	02/24/2020 / AMANDEEP	01/20/2020 / apatel	W2647

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	300-CAL-A-500ML / 300.0 Calibration Standard, 500 ml	P2-MEB687558	02/03/2022	02/03/2021 / apatel	07/30/2020 / apatel	W2740

Sodium Bicarbonate, Powder
BAKER ANALYZED® A.C.S. Reagent

(sodium hydrogen carbonate)

Material No.: 3506-05
Batch No.: 0000240594
Manufactured Date: 2019/06/05
Retest Date: 2026/06/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NaHCO_3$) (dried basis)	99.7 - 100.3 %	100.1
Insoluble Matter	<= 0.015 %	< 0.002
Chloride (Cl)	<= 0.003 %	0.003
Phosphate (PO_4)	<= 0.001 %	0.001
Sulfur Compounds (as SO_4)	<= 0.003 %	0.003
Calcium (Ca)	<= 0.02 %	0.02
Trace Impurities - Iron (Fe)	<= 0.001 %	0.001
Magnesium (Mg)	<= 0.005 %	0.005
Potassium (K)	<= 0.005 %	0.005
Ammonium (NH_4)	<= 5 ppm	5
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	5

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com
tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Ion Chromatography Solution
Catalog Number:	300-CAL-A
Lot Number:	P2-MEB678300
Matrix:	H2O
Value / Analyte(s):	150 µg/mL ea: Sulfate, 100 µg/mL ea: Bromide, 50 µg/mL ea: o-Phosphate as P, 30 µg/mL ea: Chloride, Nitrite as N, 25 µg/mL ea: Nitrate as N, 20 µg/mL ea: Fluoride

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Bromide, Br	**100.0 ± 0.5 µg/mL**	**Chloride, Cl**	**30.01 ± 0.16 µg/mL**
Fluoride, F-	**20.01 ± 0.09 µg/mL**	**Nitrate as N, NNO3-**	**25.00 ± 0.12 µg/mL**
Nitrite as N, NNO2-	**30.00 ± 0.16 µg/mL**	**o-Phosphate as P, PPO4**	**49.99 ± 0.22 µg/mL**
Sulfate, SO4	**150.0 ± 0.7 µg/mL**		

Density: 0.999 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Br	IC Assay	3184	151130
Br	Fajans	999c	999c
Cl	IC Assay	3182	060925
Cl	Fajans	999c	999c
F-	IC Assay	3183	140203
NNO3-	IC Assay	3185	050517
NNO2-	Calculated	8040	8040
NNO2-	IC Assay		traceable to 40h
PPO4	IC Assay	3186	090723
SO4	IC Assay	3181	080603
SO4	Calculated		See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 25, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 25, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Supervisor, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com
tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Ion Chromatography Solution
Catalog Number:	300-CAL-A
Lot Number:	P2-MEB687558
Matrix:	H2O
Value / Analyte(s):	150 µg/mL ea: Sulfate, 100 µg/mL ea: Bromide, 50 µg/mL ea: o-Phosphate as P, 30 µg/mL ea: Chloride, Nitrite as N, 25 µg/mL ea: Nitrate as N, 20 µg/mL ea: Fluoride

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Bromide, Br	**100.0 ± 0.5 µg/mL**	**Chloride, Cl**	**30.00 ± 0.14 µg/mL**
Fluoride, F-	**20.00 ± 0.07 µg/mL**	**Nitrate as N, NNO3-**	**25.00 ± 0.10 µg/mL**
Nitrite as N, NNO2-	**30.00 ± 0.18 µg/mL**	**o-Phosphate as P, PPO4**	**50.00 ± 0.22 µg/mL**
Sulfate, SO4	**150.0 ± 0.7 µg/mL**		

Density: 0.999 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Br	IC Assay	3184	151130
Br	Fajans	999c	999c
Cl	IC Assay	3182	060925
Cl	Fajans	999c	999c
F-	IC Assay	3183	140203
NNO3-	IC Assay	3185	050517
NNO2-	Calculated	traceable to 8040	SRM 8040
NNO2-	IC Assay		traceable to 40h new
PPO4	IC Assay	3186	170606
SO4	IC Assay	3181	080603

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 16, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 16, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Certificate of Analysis

Date of Release: 04/02/2019

Name: Sodium carbonate anhydrous

Grade: Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs.

Item No: SX0395-3

Lot No.: 19D165205

Country of Origin: USA

Characteristic	Requirement	Results
Assay (calculated on dried substance)	Min. 99.5 %	100.1 %
Color	White	White
Form	Powder	Powder
Heavy metals (ICP-OES)	Max. 5 ppm	< 5 ppm
Insoluble matter	Max. 0.01 %	< 0.01 %
Loss on heating (285°C)	Max. 1.0 %	< 1.0 %
Sulphur compounds (as SO4)	Max. 0.003 %	< 0.003 %
Cl (Chloride)	Max. 0.001 %	< 0.001 %
PO4 (Phosphate)	Max. 0.001 %	< 0.001 %
SiO2 (Silica)	Max. 0.005 %	< 0.005 %
Ca (Calcium)	Max. 0.03 %	0.005 %
Fe (Iron)	Max. 5 ppm	< 5 ppm
K (Potassium)	Max. 0.005 %	< 0.005 %
Mg (Magnesium)	Max. 0.005 %	< 0.005 %

Joe Schoellkopff

Quality Control Manager

This document has been produced electronically and is valid without signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

W2609
D.Date: 11/05/2019
Exp Date: 10/30/2023
JP

Material No.: 9673-33
Batch No.: 0000215588
Manufactured Date: 2018/10/31
Retest Date: 2023/10/30
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO_2)	<= 2 ppm	< 2
Ammonium (NH_4)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO_3)	<= 0.2 ppm	0.1
Phosphate (PO_4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	2.1
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	1.1
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	5.7
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 0.2
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 5.0
Heavy Metals (as Pb)	<= 500 ppb	< 100

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	4.4
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.5
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	16.8
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	0.6
Trace Impurities - Sodium (Na)	<= 500.0 ppb	1.1
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. M1770
COC Number 2028407

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: TRC Engineers, Inc.
ADDRESS: 71 Griffin Road
CITY Windsor, STATE: CT ZIP: 06095
ATTENTION: Jim Peronto
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Bush Terminal Park
PROJECT NO.: 435627 LOCATION: Brooklyn, NY
PROJECT MANAGER: Jim Peronto
e-mail: jperonto@trcompanies.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: SAME
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STD DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☒ NYS ASP B
- ☐ Other _____
- ☒ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
TCL VOCs	TCL SVOCs	TAL Metals	Total Chloride					

PRESERVATIVES

A	E	B	E					
1	2	3	4	5	6	7	8	9

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9
1.	TB-03222021	AQ	-	-	3/22/21	11:00	2	X								
2.	MW-106 I	GW		X	3/22/21	12:15	5	X	X	X	X					
3.	MW-106 S	GW		X	3/22/21	13:30	5	X	X	X	X					
4.	MW-106 S MS	GW		X	3/22/21	13:35	5	X	X	X	X					
5.	MW-106 S MSD	GW		X	3/22/21	13:40	5	X	X	X	X					
6.	MW-105 D	GW		X	3/22/21	13:13	5	X	X	X	X					
7.	MW-105 I	GW		X	3/22/21	15:30	5	X	X	X	X					
8.	MW-105 S	GW		X	3/22/21	15:45	5	X	X	X	X					
9.																
10.																

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3/22/21 16:00	1. 1632 3-22-21
2.		2.
3.	3-22-21 1900	3. SC

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.9°C °C
Comments: All samples should be on one report! ☒ BATCH ALL SAMPLES ☒
NYSDEC ASP CAT B
NYS Part 375

Page 1 of 1
CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☒ Picked Up ☐ Field Sampling
Shipment Complete ☒ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. M1770
QUOTE NO. ~~M1790~~
COC Number 2028408

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: TRC Engineers, Inc.
ADDRESS: 71 Griffin Road
CITY Windsor STATE: CT ZIP: 06095
ATTENTION: Jim Peronto
PHONE: 860-298-6233 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Bush Terminal Park
PROJECT NO.: 435627 LOCATION: Brooklyn
PROJECT MANAGER: Jim Peronto
e-mail: jperonto@trcompanies.com
PHONE: 860-298-6233 FAX:

CLIENT BILLING INFORMATION

BILL TO: / PO#:
ADDRESS: SAME
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) / DAYS*
HARDCOPY (DATA PACKAGE): STD DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☒ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☒ NYS ASP B
- ☐ Other

ANALYSIS

1	2	3	4	5	6	7	8	9
TCL VOCs	TCL SVOCs	TAL Metals	Chloride (Total)					

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2 (E)	3 (B)	4 (E)	5	6	7	8	9	COMMENTS
1.	TB-03232021	AQ	—	—	3/23/21	9:00	2	X									← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
2.	MW-106 D	GW		X	3/23/21	9:40	5	X	X	X	X						
3.	MW-104 D	GW		X	3/23/21	10:05	5	X	X	X	X						
4.	MW-104 I	GW		X	3/23/21	9:55	5	X	X	X	X						
5.	MW-103 D	GW		X	3/23/21	11:50	5	X	X	X	X						
6.	MW-103 I	GW		X	3/23/21	13:30	5	X	X	X	X						
7.	MW-101 S	GW		X	3/23/21	15:50	5	X	X	X	X						
8.	MW-101 I	GW		X	3/23/21	12:30	5	X	X	X	X						
9.	MW-101 D	GW		X	3/23/21	13:50	5	X	X	X	X						
10.	FB-03232021	AQ	—	—	3/23/21	14:45	5	X	X	X	X						

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3/23/21 17:00	1. 3-23-21 1700
2.		2.
3.	3-23-21 1800	3. SC

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.9 °C
Comments: BATCH ALL SAMPLES ON ONE REPORT!
NYSDEC ASP CAT B
NYSDEC Part 375

Page ___ of ___
CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☒ Picked Up ☐ Field Sampling
Shipment Complete ☒ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. M1770
COC Number 2028409

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: TRC Engineers, Inc.
ADDRESS: 71 Griffin Road
CITY Windsor STATE: CT ZIP: 06095
ATTENTION: Jim Peronto
PHONE: 860-298-6233 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Bush Terminal
PROJECT NO.: 435627 LOCATION: Brooklyn, NY
PROJECT MANAGER: Jim Peronto
e-mail: jperonto@trcompanies.com
PHONE: 860-298-6233 FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: SAME
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): STD DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☒ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1 TCL VOCs; 2 TCL SVOCs; 3 TAL Metals; 4 Total Chloride; 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A 1	E 2	B 3	E 4	5	6	7	8	9	COMMENTS
1.	TB-03242021	AQ	—	—	3/24/21	—	2	X									
2.	MW-103S	GW		X	3/24/21	11:30	5	X	X	X	X						
3.	MW-102D	GW		X	3/24/21	11:30	5	X	X	X	X						
4.	MW-102S	GW		X	3/24/21	13:55	5	X	X	X	X						
5.	MW-102I	GW		X	3/24/21	13:40	5	X	X	X	X						
6.	MW-107I	GW		X	3/24/21	13:45	5	X	X	X	X						
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	3/24/21 1546	1.	1549 3-24-21
2.		2.	
3.	3-24-21 1717	3. SC	

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.9 °C
Comments: BATCH ALL SAMPLES ON ONE REPORT
NYSDEC CAT B
NYSDEC Part 375

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☒ Picked Up ☐ Field Sampling

Shipment Complete ☒ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Steven Chaimowitz <S.Chaim@chemtech.net>
Sent: Wednesday, March 24, 2021 11:48 AM
To: 'Peronto, Jim'; CHEMTECH-Login@chemtech.net; Samantha@chemtech.net
Cc: 'Chalmers, Aine'
Subject: RE: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

Hi Jim,
We will batch all samples in SDG M1770. Thanks!

Regards,

Steven Chaimowitz
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3147
s.chaim@chemtech.net | www.chemtech.net

Your Opinion Matters! Please Give Us Your Feedback

From: Peronto, Jim [mailto:JPeronto@trccompanies.com]
Sent: Wednesday, March 24, 2021 11:27 AM
To: CHEMTECH-Login@chemtech.net; Samantha@chemtech.net
Cc: Chalmers, Aine <AChalmers@trccompanies.com>
Subject: RE: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

Hi Samantha,

As indicated on the TRC COCs, please be sure to batch all of the samples received on this project into ONE batch for our data validation.

This includes the samples on the two attached login summary reports as well as the samples being picked up today from the project site.

Thanks, Jim

Jim Peronto
TRC
860-298-6233

From: CHEMTECH-Login@chemtech.net <CHEMTECH-Login@chemtech.net>
Sent: Wednesday, March 24, 2021 10:16 AM
To: Warren, Daniel <DWarren@trccompanies.com>; ggatta@trccompanies.com; Peronto, Jim <JPeronto@trccompanies.com>; jraup@trccompanies.com; Morin, Kristen <KMorin@trccompanies.com>; LKrowitz@trccompanies.com; O'Hara, Lindsay <LOHara@trccompanies.com>; O'Hara, Lindsay <LOHara@trccompanies.com>; Zhou, Ping <PZhou@trccompanies.com>
Cc: Samantha@chemtech.net
Subject: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

To James Peronto, P.e., Leed Ap;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID	: M1790
Project ID	: NYCDPR Bush Terminal LandFill Piers 1-4
Download File	: https://client.chemtech.net
Order Date	: 3/24/2021 9:26:00 AM
CHEMTECH's Project Manager	: Samantha Beazley , Samantha@chemtech.net , Ext :
CHEMTECH's Sales Executive	: Kurt Hummler , khummler@chemtech.net , 908-728-3143 Ext :3143

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey http://chemtech.net/ClientSurvey.aspx .

Thank you,

CHEMTECH

From: Peronto, Jim <JPeronto@trccompanies.com>
Sent: Tuesday, March 30, 2021 3:56 PM
To: CHEMTECH-Login@chemtech.net; Samantha@chemtech.net
Cc: Chalmers, Aine
Subject: RE: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

Samantha,

Please do NOT report TICs with this sample data. TICs were inappropriately reported with the 2019 data.

Thanks, Jim

Jim Peronto
TRC
860-298-6233

From: Peronto, Jim
Sent: Wednesday, March 24, 2021 10:27 AM
To: CHEMTECH-Login@chemtech.net; Samantha@chemtech.net
Cc: Chalmers, Aine <AChalmers@trccompanies.com>
Subject: RE: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

Hi Samantha,

As indicated on the TRC COCs, please be sure to batch all of the samples received on this project into ONE batch for our data validation.

This includes the samples on the two attached login summary reports as well as the samples being picked up today from the project site.

Thanks, Jim

Jim Peronto
TRC
860-298-6233

From: CHEMTECH-Login@chemtech.net <CHEMTECH-Login@chemtech.net>
Sent: Wednesday, March 24, 2021 10:16 AM
To: Warren, Daniel <DWarren@trccompanies.com>; ggatta@trccompanies.com; Peronto, Jim <JPeronto@trccompanies.com>; jraup@trccompanies.com; Morin, Kristen <KMorin@trccompanies.com>; LKrowitz@trccompanies.com; O'Hara, Lindsay <LOHara@trccompanies.com>; O'Hara, Lindsay <LOHara@trccompanies.com>; Zhou, Ping <PZhou@trccompanies.com>
Cc: Samantha@chemtech.net
Subject: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

To James Peronto, P.e., Leed Ap;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID	: M1790
Project ID	: NYCDPR Bush Terminal LandFill Piers 1-4
Download File	: https://client.chemtech.net
Order Date	: 3/24/2021 9:26:00 AM

CHEMTECH's Project Manager	: Samantha Beazley , Samantha@chemtech.net , Ext :
CHEMTECH's Sales Executive	: Kurt Hummler , khummler@chemtech.net , 908-728-3143 Ext :3143

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey http://chemtech.net/ClientSurvey.aspx .

Thank you,

CHEMTECH

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2020021
Maryland	296
New Hampshire	255420
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-18-00132
Texas	T104704488-20-13

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M1770 TRCE03
Client Name : TRC Companies, Inc.
Client Contact : James Peronto, P.E., LEED
Invoice Name : TRC Companies, Inc.
Invoice Contact : James Peronto, P.E., LEED

Order Date : 3/22/2021 4:40:20 PM
Project Name : NYCDPR Bush Terminal L
Receive DateTime : 3/22/2021 7:00:00 PM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : NYSDEC EDD V-3
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
M1770-01	TB-03222021	Water	03/22/2021	11:00					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-02	MW-106I	Water	03/22/2021	12:15					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-03	MW-106S	Water	03/22/2021	13:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-04	M1770-03MS	Water	03/22/2021	13:35					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-05	M1770-03MSD	Water	03/22/2021	13:40					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-06	MW-105D	Water	03/22/2021	13:18					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-07	MW-105I	Water	03/22/2021	15:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-08	MW-105S	Water	03/22/2021	15:45					
					VOCMS Group1		8260-Low		10 Bus. Days

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	M1770 TRCE03	**Order Date :**	3/22/2021 4:40:20 PM	**Project Mgr :**	
Client Name :	TRC Companies, Inc.	**Project Name :**	NYCDPR Bush Terminal L.	**Report Type :**	NYS ASP B
Client Contact :	James Peronto, P.E., LEED	**Receive DateTime :**	3/22/2021 7:00:00 PM	**EDD Type :**	NYSDEC EDD V-3
Invoice Name :	TRC Companies, Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	James Peronto, P.E., LEED			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : CP
Date / Time : 3-23-21 9:35

Received By :
Date / Time : 3.23.21 9:35

Storage Area : VOA Refridgerator Room

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M1770 TRCE03
Client Name : TRC Companies, Inc.
Client Contact : James Peronto, P.E., LEED
Invoice Name : TRC Companies, Inc.
Invoice Contact : James Peronto, P.E., LEED

Order Date : 3/22/2021 4:40:20 PM
Project Name : NYCDPR Bush Terminal L
Receive DateTime : 3/23/2021 6:00:00 PM
Purchase Order :

Project Mgr : Tyler
Report Type : NYS ASP B
EDD Type : NYSDEC EDD V-3
Hard Copy Date :
Date Signoff : 3/23/2021 10:01:07 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
M1770-09	TB-03232021	Water	03/23/2021	09:00					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-10	MW-106D	Water	03/23/2021	09:40					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-11	MW-104D	Water	03/23/2021	10:05					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-12	MW-104I	Water	03/23/2021	09:55					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-13	MW-103D	Water	03/23/2021	11:50					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-14	MW-103I	Water	03/23/2021	13:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-16	MW-101I	Water	03/23/2021	12:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-17	MW-101D	Water	03/23/2021	13:50					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-18	FB-03232021	Water	03/23/2021	14:45					

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M1770 TRCE03
Client Name : TRC Companies, Inc.
Client Contact : James Peronto, P.E., LEED
Invoice Name : TRC Companies, Inc.
Invoice Contact : James Peronto, P.E., LEED

Order Date : 3/22/2021 4:40:20 PM
Project Name : NYCDPR Bush Terminal L
Receive DateTime : 3/23/2021 6:00:00 PM
Purchase Order :

Project Mgr : Tyler
Report Type : NYS ASP B
EDD Type : NYSDEC EDD V-3
Hard Copy Date :
Date Signoff : 3/23/2021 10:01:07 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By : [signature]
Date / Time : 3-24-21 14:15

Received By : [signature]
Date / Time : 3-24-21 14:15

Storage Area : VOA Refridgerator Room

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	M1770 TRCE03	**Order Date :**	3/22/2021 4:40:20 PM	**Project Mgr :**	Tyler
Client Name :	TRC Companies, Inc.	**Project Name :**	NYCDPR Bush Terminal L	**Report Type :**	NYS ASP B
Client Contact :	James Peronto, P.E., LEED	**Receive DateTime :**	3/24/2021 5:12:00 PM	**EDD Type :**	NYSDEC EDD V-3
Invoice Name :	TRC Companies, Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	James Peronto, P.E., LEED			**Date Signoff :**	3/23/2021 10:01:07 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
M1770-19	TB-03242021	Water	03/24/2021	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-20	MW-103S	Water	03/24/2021	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-21	MW-102D	Water	03/24/2021	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-22	MW-102S	Water	03/24/2021	13:55					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-23	MW-102I	Water	03/24/2021	13:40					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-24	MW-107I	Water	03/24/2021	13:45					
					VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By : _____

Date / Time : 3-25-21 9:30

Received By : _____

Date / Time : 3.25.21 9:30

Storage Area : **VOA Refridgerator Room** Stored in VOA-Ref-#4