



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

Cover Page

Order ID : N3259

Project ID : Fresh Kills Landfill Leachate Treatment Plant

Client : Inframark

Lab Sample Number

N3259-01
N3259-02

Client Sample Number

BI-WEEKLY-INFLUENT
BI-WEEKLY-INFLUENT

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 : _____

Date: 6/22/2022

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A**QA REVIEW GENERAL DOCUMENTATION**

Project #: N3259

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 Custody

☒

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: 06/22/2022

2nd Level QA Review Signature: _____

Date: _____



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LAB CHRONICLE

OrderID: N3259	OrderDate: 6/8/2022 12:24:00 PM
Client: Inframark	Project: Fresh Kills Landfill Leachate Treatment Plant
Contact: Kevin Russell	Location: N11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
N3259-01	BI-WEEKLY-INFLUENT	WATER			06/08/22 07:00			06/08/22
			Anions Group1	300.0			06/09/22 13:23	
			COD	SM5220 D			06/10/22 14:17	
			Phosphorus-Total	365.3		06/09/22	06/09/22 14:22	
N3259-01DL	BI-WEEKLY-INFLUENT DL	WATER			06/08/22 07:00			06/08/22
			Anions Group1	300.0			06/09/22 13:53	
			Phosphorus-Total	365.3		06/09/22	06/09/22 14:26	
N3259-02	BI-WEEKLY-INFLUENT	WATER			06/08/22 08:53			06/08/22
			Oil and Grease	1664A			06/08/22 16:15	

SAMPLE DATA



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Report of Analysis

Client:	Inframark	Date Collected:	06/08/22 07:00
Project:	Fresh Kills Landfill Leachate Treatment Plant	Date Received:	06/08/22
Client Sample ID:	BI-WEEKLY-INFLUENT	SDG No.:	N3259
Lab Sample ID:	N3259-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1480	OR	10	0.97	6.00	mg/L		06/09/22 13:23	300.0
COD	437	D	10	24.0	100	mg/L		06/10/22 14:17	SM5220 D
Phosphorus, Total	1.27	OR	1	0.010	0.050	mg/L	06/09/22 09:45	06/09/22 14:22	365.3

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:	Inframark	Date Collected:	06/08/22 07:00
Project:	Fresh Kills Landfill Leachate Treatment Plant	Date Received:	06/08/22
Client Sample ID:	BI-WEEKLY-INFLUENTDL	SDG No.:	N3259
Lab Sample ID:	N3259-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1140	D	300	29.1	180	mg/L		06/09/22 13:53	300.0
Phosphorus, Total	4.17	D	5	0.048	0.25	mg/L	06/09/22 09:45	06/09/22 14:26	365.3

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:	Inframark	Date Collected:	06/08/22 08:53
Project:	Fresh Kills Landfill Leachate Treatment Plant	Date Received:	06/08/22
Client Sample ID:	BI-WEEKLY-INFLUENT	SDG No.:	N3259
Lab Sample ID:	N3259-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Oil and Grease	1.40	J	1	0.62	5.00	mg/L		06/08/22 16:15	1664A

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: Inframark

SDG No.: N3259

Project: Fresh Kills Landfill Leachate Treatment Plant

RunNo.: LB120595

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.496	0.50	99	80-120	06/09/2022
Sample ID: CCV1 Phosphorus, Total	mg/L	0.503	0.50	101	80-120	06/09/2022
Sample ID: CCV2 Phosphorus, Total	mg/L	0.508	0.50	102	80-120	06/09/2022
Sample ID: CCV3 Phosphorus, Total	mg/L	0.497	0.50	99	80-120	06/09/2022

Initial and Continuing Calibration Verification

Client: Inframark

SDG No.: N3259

Project: Fresh Kills Landfill Leachate Treatment Plant

RunNo.: LB120604

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.8	10	98	90-110	06/06/2022
Chloride	mg/L	2.9	3	97	90-110	06/06/2022
Fluoride	mg/L	1.9	2	95	90-110	06/06/2022
Nitrite	mg/L	3	3	100	90-110	06/06/2022
Nitrate	mg/L	2.4	2.5	96	90-110	06/06/2022
Sulfate	mg/L	14.4	15	96	90-110	06/06/2022
Orthophosphate as P	mg/L	5.3	5	106	90-110	06/06/2022
Sample ID: CCV1						
Bromide	mg/L	9.5	10	95	90-110	06/09/2022
Chloride	mg/L	2.9	3	97	90-110	06/09/2022
Fluoride	mg/L	2	2	100	90-110	06/09/2022
Nitrite	mg/L	2.8	3	93	90-110	06/09/2022
Nitrate	mg/L	2.3	2.5	92	90-110	06/09/2022
Sulfate	mg/L	13.9	15	93	90-110	06/09/2022
Orthophosphate as P	mg/L	5.2	5	104	90-110	06/09/2022
Sample ID: CCV2						
Bromide	mg/L	9.7	10	97	90-110	06/09/2022
Chloride	mg/L	2.9	3	97	90-110	06/09/2022
Fluoride	mg/L	2	2	100	90-110	06/09/2022
Nitrite	mg/L	3	3	100	90-110	06/09/2022
Nitrate	mg/L	2.4	2.5	96	90-110	06/09/2022
Sulfate	mg/L	14.2	15	95	90-110	06/09/2022
Orthophosphate as P	mg/L	6	5	120	90-110	06/09/2022
Sample ID: CCV3						
Bromide	mg/L	9.7	10	97	90-110	06/09/2022
Chloride	mg/L	2.9	3	97	90-110	06/09/2022
Fluoride	mg/L	2	2	100	90-110	06/09/2022
Nitrite	mg/L	2.9	3	97	90-110	06/09/2022
Nitrate	mg/L	2.4	2.5	96	90-110	06/09/2022
Sulfate	mg/L	14.2	15	95	90-110	06/09/2022
Orthophosphate as P	mg/L	6.3	5	126	90-110	06/09/2022

Initial and Continuing Calibration Verification**Client:** Inframark**SDG No.:** N3259**Project:** Fresh Kills Landfill Leachate Treatment Plant**RunNo.:** LB120613

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
COD		mg/L	50.726	50	101	95-105	05/19/2022
Sample ID:	CCV1						
COD		mg/L	50.726	50	101	95-105	06/10/2022
Sample ID:	CCV2						
COD		mg/L	48.714	50	97	95-105	06/10/2022
Sample ID:	CCV3						
COD		mg/L	49.720	50	99	95-105	06/10/2022



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Initial and Continuing Calibration Verification

Client: Inframark

SDG No.: N3259

Project: Fresh Kills Landfill Leachate Treatment Plant

RunNo.: LB120613

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
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Initial and Continuing Calibration Blank Summary

Client: Inframark

SDG No.: N3259

Project: Fresh Kills Landfill Leachate Treatment Plant

RunNo.: LB120595

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0096	0.05	06/09/2022
Sample ID: CCB1 Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0096	0.05	06/09/2022
Sample ID: CCB2 Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0096	0.05	06/09/2022
Sample ID: CCB3 Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0096	0.05	06/09/2022

Initial and Continuing Calibration Blank Summary

Client: Inframark

SDG No.: N3259

Project: Fresh Kills Landfill Leachate Treatment Plant

RunNo.: LB120604

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.14	2	06/06/2022
Chloride	mg/L	< 0.3000	0.3000	U	0.097	0.6	06/06/2022
Fluoride	mg/L	< 0.2000	0.2000	U	0.092	0.4	06/06/2022
Nitrite	mg/L	< 0.3000	0.3000	U	0.032	0.6	06/06/2022
Nitrate	mg/L	< 0.2500	0.2500	U	0.050	0.5	06/06/2022
Sulfate	mg/L	< 1.5000	1.5000	U	0.18	3	06/06/2022
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	06/06/2022
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.14	2	06/09/2022
Chloride	mg/L	< 0.3000	0.3000	U	0.097	0.6	06/09/2022
Fluoride	mg/L	< 0.2000	0.2000	U	0.092	0.4	06/09/2022
Nitrite	mg/L	< 0.3000	0.3000	U	0.032	0.6	06/09/2022
Nitrate	mg/L	< 0.2500	0.2500	U	0.050	0.5	06/09/2022
Sulfate	mg/L	< 1.5000	1.5000	U	0.18	3	06/09/2022
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	06/09/2022
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.14	2	06/09/2022
Chloride	mg/L	< 0.3000	0.3000	U	0.097	0.6	06/09/2022
Fluoride	mg/L	< 0.2000	0.2000	U	0.092	0.4	06/09/2022
Nitrite	mg/L	< 0.3000	0.3000	U	0.032	0.6	06/09/2022
Nitrate	mg/L	< 0.2500	0.2500	U	0.050	0.5	06/09/2022
Sulfate	mg/L	< 1.5000	1.5000	U	0.18	3	06/09/2022
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	06/09/2022
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.14	2	06/09/2022
Chloride	mg/L	< 0.3000	0.3000	U	0.097	0.6	06/09/2022
Fluoride	mg/L	< 0.2000	0.2000	U	0.092	0.4	06/09/2022
Nitrite	mg/L	< 0.3000	0.3000	U	0.032	0.6	06/09/2022
Nitrate	mg/L	< 0.2500	0.2500	U	0.050	0.5	06/09/2022
Sulfate	mg/L	< 1.5000	1.5000	U	0.18	3	06/09/2022
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	06/09/2022

Initial and Continuing Calibration Blank Summary**Client:** Inframark**SDG No.:** N3259**Project:** Fresh Kills Landfill Leachate Treatment Plant**RunNo.:** LB120613

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB							
COD		mg/L	< 5.0000	5.0000	U	2.40	10	05/19/2022
Sample ID:	CCB1							
COD		mg/L	< 5.0000	5.0000	U	2.40	10	06/10/2022
Sample ID:	CCB2							
COD		mg/L	< 5.0000	5.0000	U	2.40	10	06/10/2022
Sample ID:	CCB3							
COD		mg/L	< 5.0000	5.0000	U	2.40	10	06/10/2022



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Initial and Continuing Calibration Blank Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	RunNo.:	LB120613

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
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Preparation Blank Summary**Client:** Inframark**SDG No.:** N3259**Project:** Fresh Kills Landfill Leachate Treatment Plant

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB120567BL							
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.62	5.0	06/08/2022
Sample ID: LB120604BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.14	2	06/09/2022
Chloride	mg/L	< 0.3000	0.3000	U	0.097	0.6	06/09/2022
Fluoride	mg/L	< 0.2000	0.2000	U	0.092	0.4	06/09/2022
Nitrite	mg/L	< 0.3000	0.3000	U	0.032	0.6	06/09/2022
Nitrate	mg/L	< 0.2500	0.2500	U	0.05	0.5	06/09/2022
Sulfate	mg/L	< 1.5000	1.5000	U	0.18	3	06/09/2022
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.3	1	06/09/2022
Sample ID: LB120613BL							
COD	mg/L	< 5.0000	5.0000	U	2.4	10.0	06/10/2022
Sample ID: PB145436BL							
Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.01	0.05	06/09/2022



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Matrix Spike Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3252-01
Client ID:	POOL-WATERMS	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	10.2		0.14	U	10	1	102		06/09/2022
Chloride	mg/L	80-120	3.20		0.18	J	3	1	101		06/09/2022
Fluoride	mg/L	80-120	2.20		0.092	U	2	1	110		06/09/2022
Nitrite	mg/L	80-120	3.00		0.032	U	3	1	100		06/09/2022
Nitrate	mg/L	80-120	2.80		0.21	J	2.5	1	104		06/09/2022
Sulfate	mg/L	80-120	15.3		0.60	J	15	1	98		06/09/2022
Orthophosphate as P	mg/L	80-120	6.60		0.30	U	5	1	132	*	06/09/2022



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Matrix Spike Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3252-01
Client ID:	POOL-WATERMSD	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	12.9		0.14	U	10	1	129	*	06/09/2022
Chloride	mg/L	80-120	4.10		0.18	J	3	1	131	*	06/09/2022
Fluoride	mg/L	80-120	2.90		0.092	U	2	1	145	*	06/09/2022
Nitrite	mg/L	80-120	3.80		0.032	U	3	1	127	*	06/09/2022
Nitrate	mg/L	80-120	3.50		0.21	J	2.5	1	132	*	06/09/2022
Sulfate	mg/L	80-120	19.4		0.60	J	15	1	125	*	06/09/2022
Orthophosphate as P	mg/L	80-120	8.30		0.30	U	5	1	166	*	06/09/2022



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Matrix Spike Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3261-01DL
Client ID:	BI-WEEKLY-DECANTMS	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
Phosphorus, Total	mg/L	75-125	1.71	D	1.10	D	0.5	5	122		06/09/2022



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Matrix Spike Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3261-01DL
Client ID:	BI-WEEKLY-DECANTMSD	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
Phosphorus, Total	mg/L	75-125	1.71	D	1.10	D	0.5	5	122		06/09/2022



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Matrix Spike Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3263-01
Client ID:	DSN002MS	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
COD	mg/L	75-125	70.9		21.5		50.0	1	99		06/10/2022



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Matrix Spike Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3263-01
Client ID:	DSN002MSD	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
COD	mg/L	75-125	70.9		21.5		50.0	1	99		06/10/2022



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Duplicate Sample Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	LB120567BS
Client ID:	LB120567BSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	16.9		16.7		1	1.19		06/08/2022



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Duplicate Sample Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3252-01
Client ID:	POOL-WATERMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Nitrate	mg/L	+/-20	2.80		3.50		1	22	*	06/09/2022
Bromide	mg/L	+/-20	10.2		12.9		1	23	*	06/09/2022
Orthophosphate as P	mg/L	+/-20	6.60		8.30		1	23	*	06/09/2022
Nitrite	mg/L	+/-20	3.00		3.80		1	24	*	06/09/2022
Sulfate	mg/L	+/-20	15.3		19.4		1	24	*	06/09/2022
Chloride	mg/L	+/-20	3.20		4.10		1	25	*	06/09/2022
Fluoride	mg/L	+/-20	2.20		2.90		1	27	*	06/09/2022



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Duplicate Sample Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3261-01DL
Client ID:	BI-WEEKLY-DECANTDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phosphorus, Total	mg/L	+/-20	1.10	D	1.09	D	5	0.91		06/09/2022



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Duplicate Sample Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3261-01DL
Client ID:	BI-WEEKLY-DECANTMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phosphorus, Total	mg/L	+/-20	1.71	D	1.71	D	5	0		06/09/2022



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Duplicate Sample Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3263-01
Client ID:	DSW002DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
COD	mg/L	+/-20	21.5		22.5		1	4.55		06/10/2022



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Duplicate Sample Summary

Client:	Inframark	SDG No.:	N3259
Project:	Fresh Kills Landfill Leachate Treatment Plant	Sample ID:	N3263-01
Client ID:	DSN002MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
COD	mg/L	+/-20	70.9		70.9		1	0		06/10/2022



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Laboratory Control Sample Summary

Client:

Inframark

SDG No.:

N3259

Project:

Fresh Kills Landfill Leachate Treatment Plant

Run No.:

LB120567

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB120567BS							
Oil and Grease	mg/L	20.0	16.9		84	1	78-114	06/08/2022



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Laboratory Control Sample Summary

Client: Inframark

SDG No.: N3259

Project: Fresh Kills Landfill Leachate Treatment Plant

Run No.: LB120567

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB120567BSD							
Oil and Grease	mg/L	20.0	16.7		84	1	78-114	06/08/2022



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Laboratory Control Sample Summary

Client: Inframark

SDG No.: N3259

Project: Fresh Kills Landfill Leachate Treatment Plant

Run No.: LB120604

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB120604BSW							
Bromide	mg/L	10	9.60		96	1	90-110	06/09/2022
Chloride	mg/L	3	2.90		97	1	90-110	06/09/2022
Fluoride	mg/L	2	2.00		100	1	90-110	06/09/2022
Nitrite	mg/L	3	2.90		97	1	90-110	06/09/2022
Nitrate	mg/L	2.5	2.40		96	1	90-110	06/09/2022
Sulfate	mg/L	15	14.2		95	1	90-110	06/09/2022
Orthophosphate as P	mg/L	5	5.50		110	1	90-110	06/09/2022



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Laboratory Control Sample Summary

Client: Inframark

SDG No.: N3259

Project: Fresh Kills Landfill Leachate Treatment Plant

Run No.: LB120613

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB120613BS								
COD		mg/L	50	49.7		99	1	90-110	06/10/2022



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Laboratory Control Sample Summary

Client: Inframark

SDG No.: N3259

Project: Fresh Kills Landfill Leachate Treatment Plant

Run No.: LB120595

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB145436BS							
Phosphorus, Total	mg/L	0.50	0.51		101	1	80-120	06/09/2022

RAW DATA



Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: Oil and Grease
Run Number: LB120567
Analysis Date: 06/08/2022
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: mohammad
Extraction Date: 06/08/2022
Extraction IN Time: 15:10
Extraction OUT Time: 16:45
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Silica Gel Weight (g)	Weight After Drying (g)	Final Weight After Drying (g)	Change Weight (g)	Result in ppm
1	LB120567BL	LB120567BL	WATER	1.3	1000	100	3.0658	3.0658	0	3.0659	3.0659	0.0001	0.1
2	LB120567BS	LB120567BS	WATER	1.3	1000	100	3.1988	3.1988	0	3.2157	3.2157	0.0169	16.9
3	LB120567BSD	LB120567BSD	WATER	1.3	1000	100	3.0651	3.0651	0	3.0818	3.0818	0.0167	16.7
4	N3214-07	LOD-MDL-WATER-01-QT2-2	WATER	1.3	1000	100	3.0537	3.0537	0	3.0559	3.0559	0.0022	2.2
5	N3214-08	LOQ-WATER-02-QT2-2022	WATER	1.3	1000	100	3.1741	3.1741	0	3.1784	3.1784	0.0043	4.3
6	N3259-02	BI-WEEKLY-INFLUENT	WATER	1.6	1000	100	3.1227	3.1227	0	3.1241	3.1241	0.0014	1.4
7	N3261-02	BI-WEEKLY-DECANT	WATER	1.6	1000	100	3.1133	3.1133	0	3.1136	3.1136	0.0003	0.3



QC Batch# LB120567 Test: Oil and Grease Analysis Date: 06/08/2022

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W2919
pH Paper 0-14	M4909
Sodium Sulfate	EP2247
1:1 HCL	WP95586
Silica Gel	NA
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP95587
LCSWD	2.5 ML	WP95588
MS/MSD	NA	NA

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance:	<u>0.0019</u>	(0.0018-0.0022)	In OVEN TEMP1 :	<u>70 °C</u>	Dessicator Time In1 :	<u>17:01</u>
1.0000 gram Balance:	<u>1.0005</u>	(0.9950-1.0050)	In Time1:	<u>16:15</u>		
Bal Check Time:	<u>15:30</u>		Out OVEN TEMP1:	<u>70 °C</u>	Dessicator Time Out1:	<u>17:30</u>
			Out Time1:	<u>17:00</u>		

After Analysis

0.0020 gram Balance:	<u>0.0021</u>	(0.0018-0.0022)	In OVEN TEMP2 :	<u>71 °C</u>	Dessicator Time In2 :	<u>18:31</u>
1.0000 gram Balance:	<u>1.0004</u>	(0.9950-1.0050)	In Time2:	<u>18:00</u>		
Bal Check Time:	<u>19:10</u>		Out OVEN TEMP2:	<u>71 °C</u>	Dessicator Time Out2:	<u>19:00</u>
			Out Time2:	<u>18:30</u>		

WORKLIST(Hardcopy Internal Chain)

120567

WorkList Name : OIL & GREASE N3261

WorkList ID : 160358

Department : Wet-Chemistry

Date : 06-08-2022 14:57:20

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
06/27/2022	Water	N3214-07	Oil and Grease	Conc H2SO4 tr	CHEM02	QA Of	LOD-MDL-WATER-01-QT2-2022	06/06/2022	1664A
06/27/2022	Water	N3214-08	Oil and Grease	Conc H2SO4 tr	CHEM02	QA Of	LOQ-WATER-02-QT2-2022	06/06/2022	1664A
06/21/2022	Water	N3259-02	Oil and Grease	Conc H2SO4 tr	INFR01	N11	BI-WEEKLY-INFLUENT	06/08/2022	1664A
06/21/2022	Water	N3261-02	Oil and Grease	Conc H2SO4 tr	INFR01	N11	BI-WEEKLY-DECANT	06/08/2022	1664A

Date/Time 06/08/22 15:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 06/08/22 18:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Analysis Method: 365.3

ANALYST: Iwona

Parameter: Phosphorus-Total

SUPERVISOR REVIEW BY: jignesh

Run Number: LB120595

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP97112
calibration std. phosphate 0.5 ppm	WP97111
calibration std. phosphate 0.3 ppm	WP97110
calibration std. phosphate 0.1 ppm	WP97109
calibration std. phosphate 0.05 ppm	WP97108
calibration std. 0 ppm	WP97107
phosphate CCV std.	WP97115
Combined reagent	WP97249
Phenolphthalein indicator	WP96861
Sodium hydroxide, 1N	WP95405
Phosphosphate LOQ std, 0.05PPM	WP97267
Phosphate ICV-LCS Std	WP97116
Phosphate LOD-MDL Std 0.025ppm	WP97266

Intercept: -0.0019

Slope: 0.6515

Regression: 0.999919

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000			06/09/2022	14:15
2	CAL2	0.05	1	50	50	0.033			06/09/2022	14:15
3	CAL3	0.10	1	50	50	0.064			06/09/2022	14:16
4	CAL4	0.30	1	50	50	0.188			06/09/2022	14:16
5	CAL5	0.50	1	50	50	0.322			06/09/2022	14:17
6	CAL6	1.00	1	50	50	0.652			06/09/2022	14:17

Analysis Method: 365.3

ANALYST: Iwona

Parameter: Phosphorus-Total

SUPERVISOR REVIEW BY: jignesh

Run Number: LB120595

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.321	0.496	06/09/2022	14:18
2	ICB		1	50	50	0.001	0.004	06/09/2022	14:18
3	CCV1	0.50	1	50	50	0.326	0.503	06/09/2022	14:19
4	CCB1		1	50	50	0.002	0.006	06/09/2022	14:19
5	PB145436BL		1	50	50	0.003	0.008	06/09/2022	14:20
6	PB145436BS	0.50	1	50	50	0.328	0.506	06/09/2022	14:20
7	N3200-01		1	50	50	1.772	2.723	06/09/2022	14:21
8	N3214-07		1	50	50	0.015	0.026	06/09/2022	14:21
9	N3214-08		1	50	50	0.320	0.494	06/09/2022	14:22
10	N3259-01		1	50	50	0.828	1.274	06/09/2022	14:22
11	N3261-01		1	50	50	0.669	1.030	06/09/2022	14:23
12	N3261-01DUP		1	50	50	0.668	1.028	06/09/2022	14:23
13	N3261-01MS	0.50	1	50	50	0.799	1.229	06/09/2022	14:24
14	N3261-01MSD	0.50	1	50	50	0.669	1.030	06/09/2022	14:24
15	CCV2	0.50	1	50	50	0.329	0.508	06/09/2022	14:25
16	CCB2		1	50	50	0.002	0.006	06/09/2022	14:25
17	N3200-01		20	50	50	0.465	0.717	06/09/2022	14:26
18	N3259-01		5	50	50	0.541	0.833	06/09/2022	14:26
19	N3261-01		5	50	50	0.141	0.219	06/09/2022	14:27
20	N3261-01DUP		5	50	50	0.140	0.218	06/09/2022	14:27
21	N3261-01MS	0.50	5	50	50	0.221	0.342	06/09/2022	14:28
22	N3261-01MSD	0.50	5	50	50	0.220	0.341	06/09/2022	14:28
23	CCV3	0.50	1	50	50	0.322	0.497	06/09/2022	14:29
24	CCB3		1	50	50	0.003	0.008	06/09/2022	14:29

Clear table

Instrument ID: IC-2										Analyst :		IZ	Method:		300.0 / 9056A	
ident	concentra tion F-	concentratio n CL-	concentratio on NO2	concentrati on BR-	concentrati on NO3	concentrati on HPO4	concentrati on 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	2022-06-06_	6/6/22 10:26		IZ/AP					
STD2	0.3970	0.6140	0.6210	2.0220	0.5080	0.7720	3.1470	2022-06-06_	6/6/22 10:56		IZ/AP					
STD3	0.8100	1.1600	1.1490	3.8850	0.9770	1.8890	5.8380	2022-06-06_	6/6/22 11:26		IZ/AP					
STD4	0.9700	1.4810	1.4850	4.9410	1.2380	2.5520	7.3880	2022-06-06_	6/6/22 11:55		IZ/AP					
STD5	1.9970	3.0310	3.0400	10.1050	2.5120	5.4020	14.9990	2022-06-06_	6/6/22 12:25		IZ/AP					
STD6	4.1300	6.1050	6.0690	20.3490	5.0860	10.2940	30.5160	2022-06-06_	6/6/22 12:55		IZ/AP					
STD7	4.8960	7.4100	7.4370	24.6970	6.1800	12.0910	37.1110	2022-06-06_	6/6/22 13:24		IZ/AP					
ICV	1.9380	2.9210	2.9620	9.7820	2.4440	5.2740	14.4460	2022-06-06_	6/6/22 13:54		IZ/AP					
ICB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2022-06-06_	6/6/22 14:25		IZ/AP					
CCV	1.9970	2.8520	2.7970	9.5020	2.3460	5.1610	13.9030	2022-06-09_	6/9/22 9:39		IZ/AP					
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2022-06-09_	6/9/22 10:10		IZ/AP					
LB120604BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2022-06-09_	6/9/22 10:39		IZ/AP					
LB120604BSW	2.0140	2.8940	2.9070	9.6190	2.3940	5.5070	14.1520	2022-06-09_	6/9/22 11:09		IZ/AP					
N3252-01	0.0000	0.1790	0.0000	0.0000	0.2140	0.0000	0.5950	2022-06-09_	6/9/22 11:54		IZ/AP					
N3252-01MS	2.2220	3.2420	2.9800	10.2370	2.7580	6.5520	15.3190	2022-06-09_	6/9/22 12:24		IZ/AP					
N3252-01MSD	2.9180	4.0610	3.8420	12.9250	3.4520	8.3030	19.4230	2022-06-09_	6/9/22 12:53		IZ/AP					
N3259-01X10	0.0000	148.4010	0.0000	0.6960	0.0000	-0.0820	3.2210	2022-06-09_	6/9/22 13:23		IZ/AP					
N3259-01DLX300	0.0000	3.7870	0.0000	0.0000	0.0000	0.0000	0.5930	2022-06-09_	6/9/22 13:53		IZ/AP					
CCV	2.0100	2.9050	2.9630	9.6570	2.4000	6.0090	14.1900	2022-06-09_	6/9/22 14:22		IZ/AP					
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2022-06-09_	6/9/22 14:56		IZ/AP					
N3297-02	0.1810	47.2530	0.1400	0.0000	0.6890	0.6260	7.0800	2022-06-09_	6/9/22 17:20		IZ/AP					
CCV	2.0070	2.9080	2.9310	9.6640	2.4170	6.2650	14.1660	2022-06-09_	6/9/22 17:50		IZ/AP					
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2022-06-09_	6/9/22 18:20		IZ/AP					

Clear table

Instrument ID: IC-2 Analyst : IZ Method: 300.0 / 9056A

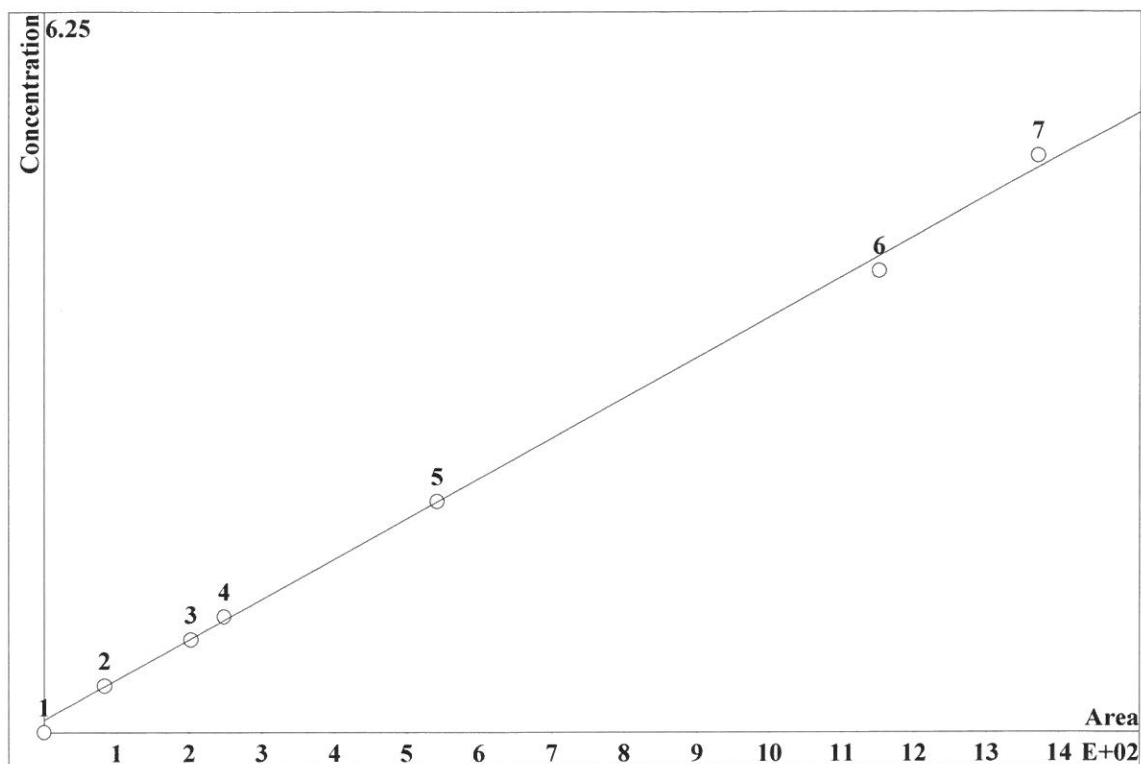
ident	concentra tion F-	concentratio n CL-	concentrati on NO2	concentrati on BR-	concentrati on NO3	concentrati on HPO4	concentrati on SO4	file name	date time	Initial wt/ Final Vol	Analyst
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2022-06-06_	6/6/22 10:26		IZ/AP
STD2	0.3970	0.6140	0.6210	2.0220	0.5080	0.7720	3.1470	2022-06-06_	6/6/22 10:56		IZ/AP
STD3	0.8100	1.1600	1.1490	3.8850	0.9770	1.8890	5.8380	2022-06-06_	6/6/22 11:26		IZ/AP
STD4	0.9700	1.4810	1.4850	4.9410	1.2380	2.5520	7.3880	2022-06-06_	6/6/22 11:55		IZ/AP
STD5	1.9970	3.0310	3.0400	10.1050	2.5120	5.4020	14.9990	2022-06-06_	6/6/22 12:25		IZ/AP
STD6	4.1300	6.1050	6.0690	20.3490	5.0860	10.2940	30.5160	2022-06-06_	6/6/22 12:55		IZ/AP
STD7	4.8960	7.4100	7.4370	24.6970	6.1800	12.0910	37.1110	2022-06-06_	6/6/22 13:24		IZ/AP

ident	True Value F-	True Value CL-	True Value NO2	True Value BR-	True Value NO3	True Value HPO4	True Value SO4
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD2	0.4000	0.6000	0.6000	2.0000	0.5000	1.0000	3.0000
STD3	0.8000	1.2000	1.2000	4.0000	1.0000	2.0000	6.0000
STD4	1.0000	1.5000	1.5000	5.0000	1.2500	2.5000	7.5000
STD5	2.0000	3.0000	3.0000	10.0000	2.5000	5.0000	15.0000
STD6	4.0000	6.0000	6.0000	20.0000	5.0000	10.0000	30.0000
STD7	5.0000	7.5000	7.5000	25.0000	6.2500	12.5000	37.0000

ident	Relative Error F-	Relative Error CL-	Relative Error NO2	Relative Error BR-	Relative Error NO3	Relative Error HPO4	Relative Error SO4
STD1							
STD2	-0.7500	2.3333	3.5000	1.1000	1.6000	-22.8000	4.9000
STD3	1.2500	-3.3333	-4.2500	-2.8750	-2.3000	-5.5500	-2.7000
STD4	-3.0000	-1.2667	-1.0000	-1.1800	-0.9600	2.0800	-1.4933
STD5	-0.1500	1.0333	1.3333	1.0500	0.4800	8.0400	-0.0067
STD6	3.2500	1.7500	1.1500	1.7450	1.7200	2.9400	1.7200
STD7	-2.0800	-1.2000	-0.8400	-1.2120	-1.1200	-3.2720	0.3000

CALIBRATION OF COMPONENT F-

Method: AnionsIC2-060622.mtw
Equation: $Q = 0.0698825 \cdot A + 2.0889$
RSD: 3.863 %
Correlation coefficient: 0.999186



K3 = 0 K2 = 0 K1 = 0.0698825 K0 = 2.0889

Base: Area

Ref.channel: chl

ISTD:

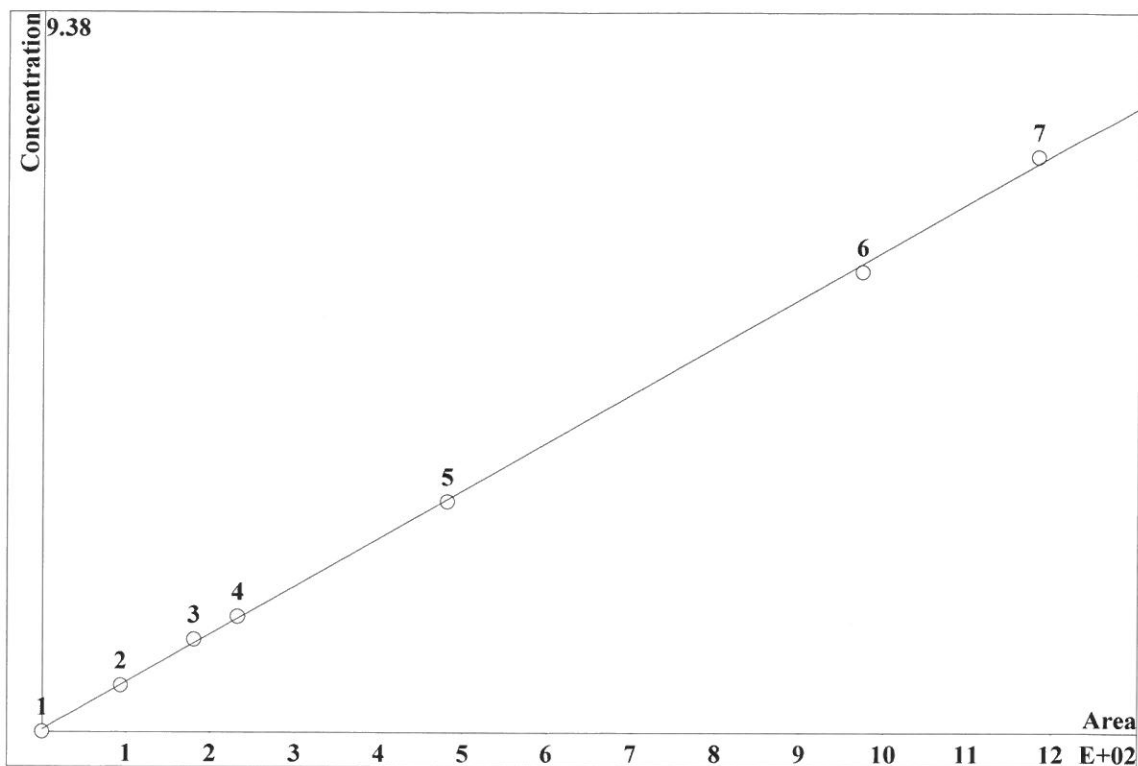
Formula: Linear

Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used File
1	0	0	0	0	0	
2	3.816	83.62	0.4	20	5.653	
3	7.977	202	0.8	20	5.653	
4	10.12	247.6	1	20	5.653	
5	25.63	541.7	2	20	5.653	
6	53.4	1152	4	20	5.653	
7	63.7	1371	5	20	5.653	

CALIBRATION OF COMPONENT CL-

Method: AnionsIC2-060622.mtw
 Equation: $Q = 0.124804 \cdot A + 0.584499$
 RSD: 2.256 %
 Correlation coefficient: 0.999723

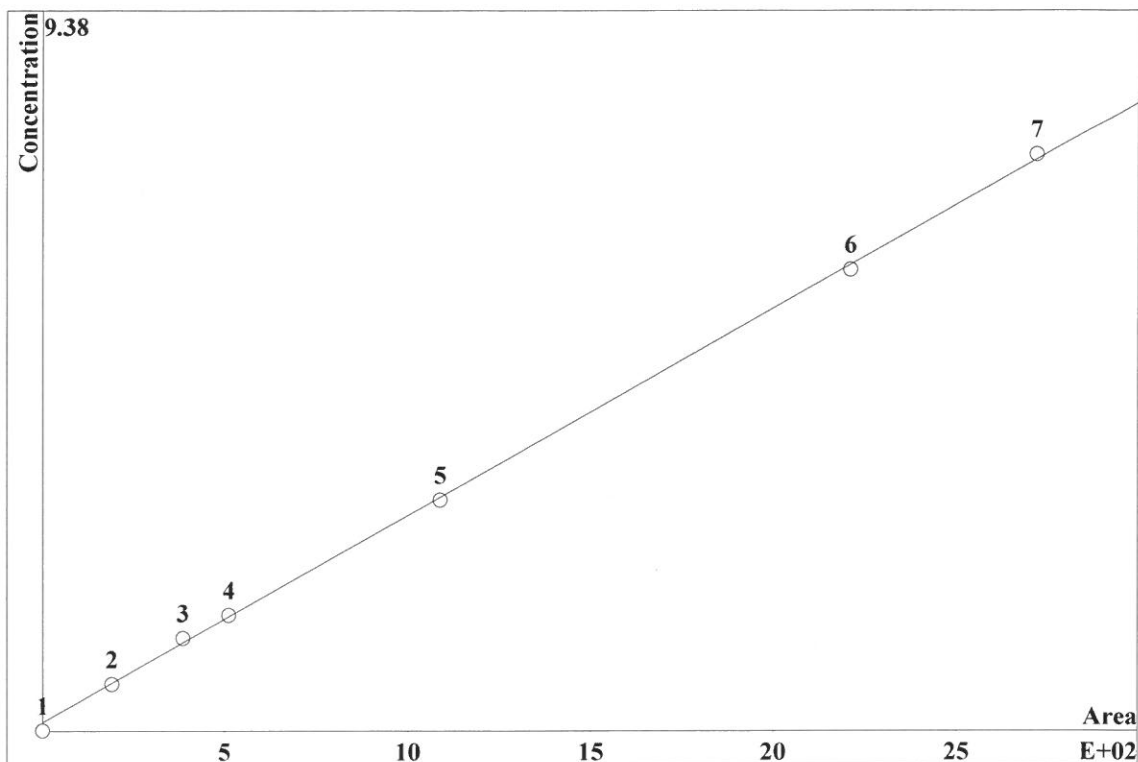


K3 = 0 K2 = 0 K1 = 0.124804 K0 = 0.584499
 Base: Area
 Ref.channel: chl
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used File
1	0	0	0	0	0	0
2	5.64	93.68	0.6	20	8.643	
3	11.14	181.2	1.2	20	8.643	
4	14.49	232.6	1.5	20	8.643	
5	30.66	481	3	20	8.643	
6	61.58	973.6	6	20	8.643	
7	76.02	1183	7.5	20	8.643	

CALIBRATION OF COMPONENT NO2

Method: AnionsIC2-060622.mtw
Equation: $Q = 0.0539197 \cdot A + 2.1117$
RSD: 1.764 %
Correlation coefficient: 0.999830



K3 = 0 K2 = 0 K1 = 0.0539197 K0 = 2.1117

Base: Area

Ref.channel: ch1

ISTD:

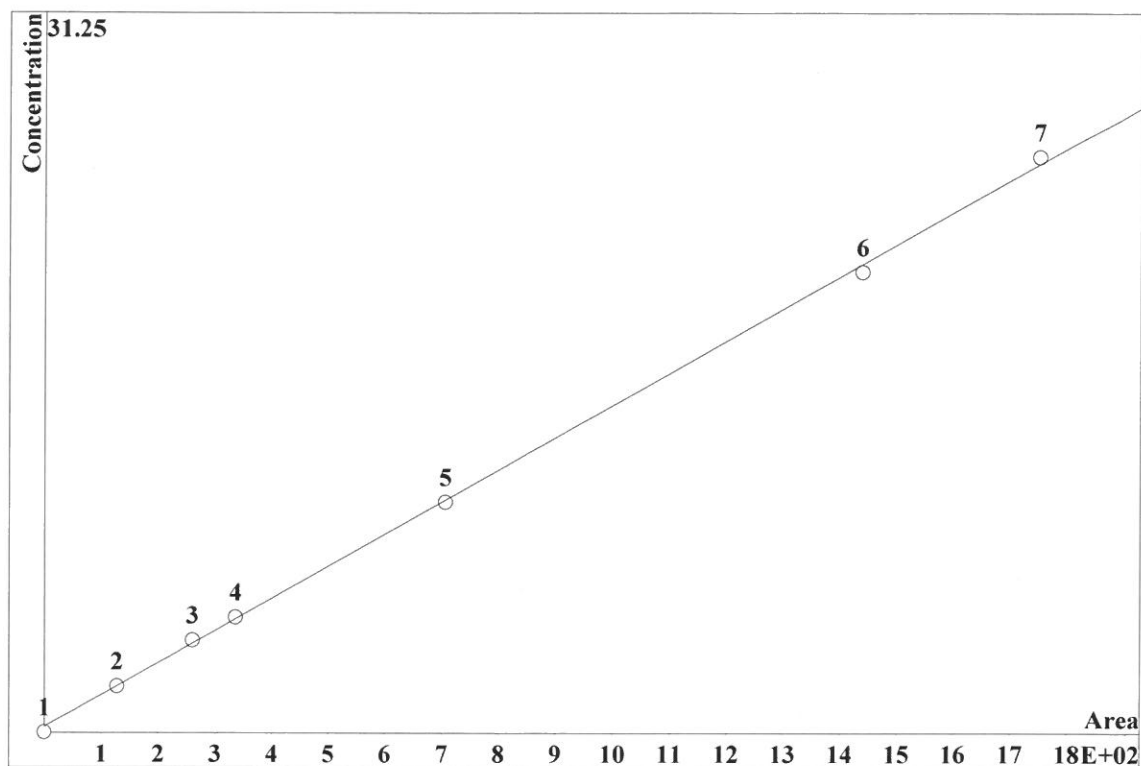
Formula: Linear

Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used File
1	0	0	0	0	0	
2	9.863	191.1	0.6	20	10.45	
3	19.83	387.1	1.2	20	10.45	
4	26.25	511.5	1.5	20	10.45	
5	55.89	1089	3	20	10.45	
6	111.1	2212	6	20	10.45	
7	136.7	2719	7.5	20	10.45	

CALIBRATION OF COMPONENT BR-

Method: AnionsIC2-060622.mtw
Equation: $Q = 0.279425 \cdot A + 4.83545$
RSD: 2.235 %
Correlation coefficient: 0.999728

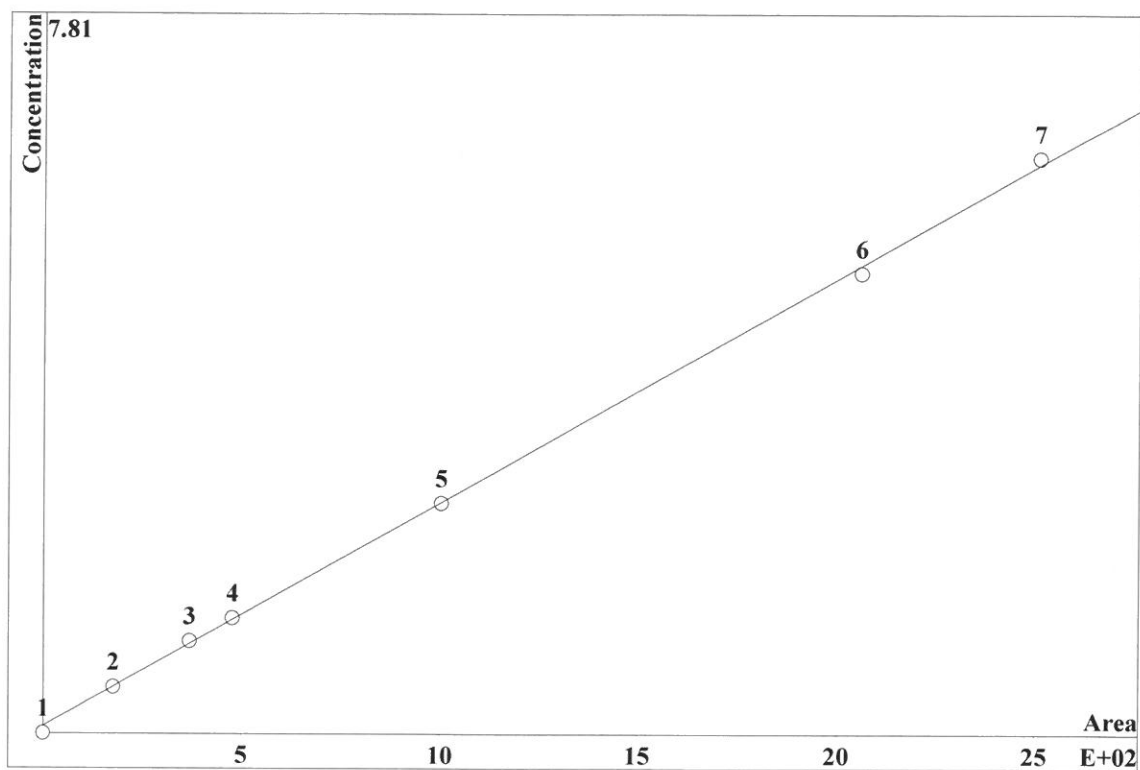


K3 = 0 K2 = 0 K1 = 0.279425 K0 = 4.83545
Base: Area
Ref.channel: chl
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	-0.001714	0.002995		0	20		13.53
2	5.626	127.4		2	20		13.53
3	11.43	260.8		4	20		13.53
4	14.92	336.4		5	20		13.53
5	31.95	706		10	20		13.53
6	63.88	1439		20	20		13.53
7	78.32	1750		25	20		13.53

CALIBRATION OF COMPONENT NO3

Method: AnionsIC2-060622.mtw
 Equation: $Q = 0.0486399 \cdot A + 1.53534$
 RSD: 2.089 %
 Correlation coefficient: 0.999762

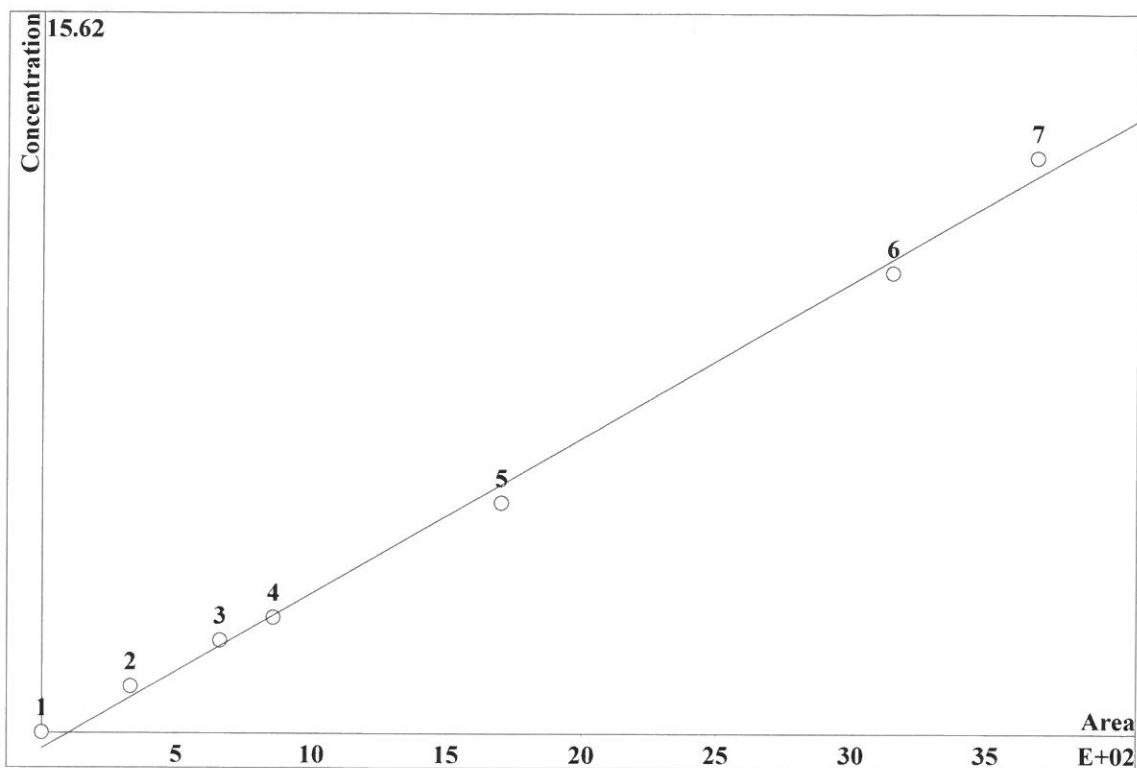


K3 = 0 K2 = 0 K1 = 0.0486399 K0 = 1.53534
 Base: Area
 Ref.channel: chl
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1		0	0	0	0		0
2	6.475	177.2	0.5	20	15.58		
3	13.36	370	1	20	15.58		
4	17.48	477.4	1.25	20	15.58		
5	37.67	1001	2.5	20	15.58		
6	76.34	2060	5	20	15.58		
7	94.32	2510	6.25	20	15.58		

CALIBRATION OF COMPONENT HPO4

Method: AnionsIC2-060622.mtw
Equation: $Q = 0.0675476 \cdot A - 6.90062$
RSD: 6.317 %
Correlation coefficient: 0.997822



K3 = 0 K2 = 0 K1 = 0.0675476 K0 = -6.90062

Base: Area

Ref.channel: chl

ISTD:

Formula: Linear

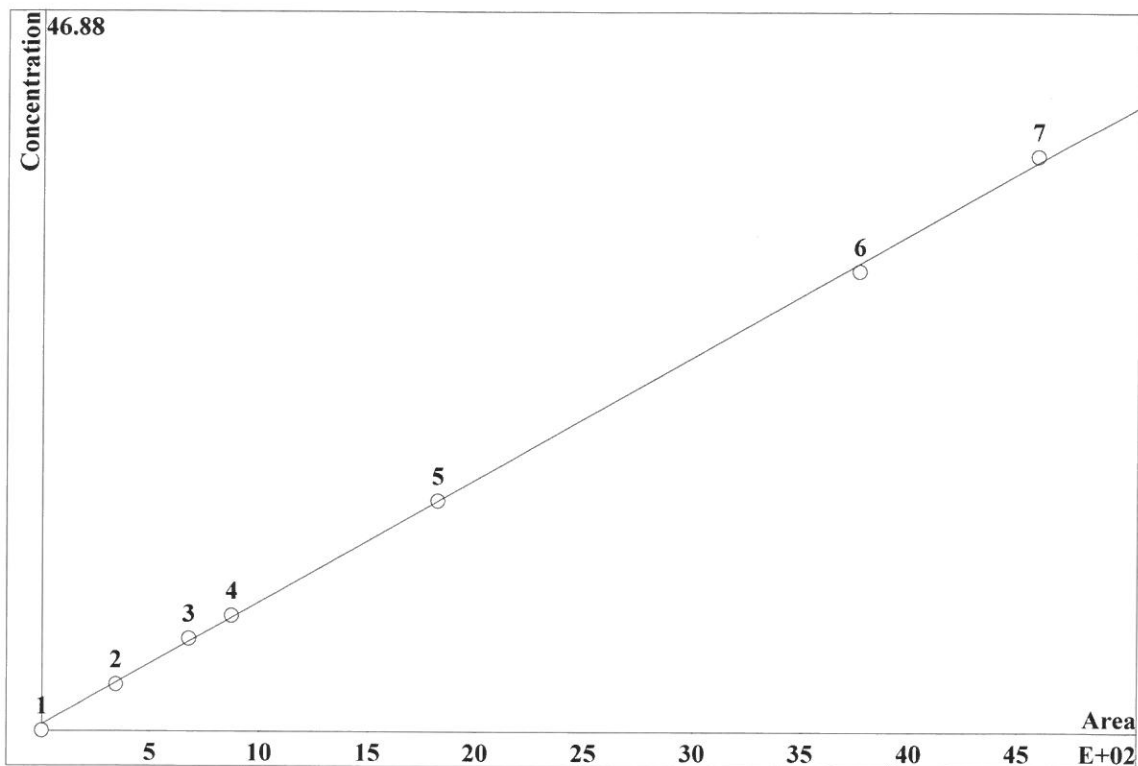
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		0
2	6.881	330.6	1	20	20.18		
3	14.19	661.6	2	20	20.18		
4	18.85	857.8	2.5	20	20.18		
5	39.66	1702	5	20	20.18		
6	75.88	3150	10	20	20.18		
7	90.42	3682	12.5	20	20.18		

* &

CALIBRATION OF COMPONENT SO4

Method: AnionsIC2-060622.mtw
Equation: $Q = 0.159946 \cdot A + 8.19929$
RSD: 2.094 %
Correlation coefficient: 0.999761



K3 = 0 K2 = 0 K1 = 0.159946 K0 = 8.19929

Base: Area

Ref.channel: chl

ISTD:

Formula: Linear

Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1		0	0	0	0		0
2	9.454	342.3		3	20		23.09
3	18.85	678.7		6	20		23.09
4	24.64	872.6		7.5	20		23.09
5	53.07	1824		15	20		23.09
6	108.7	3765		30	20		23.09
7	133.7	4589		37.5	20		23.09

Report date: 6/6/2022 4:23:31 PM
Printed by: wet

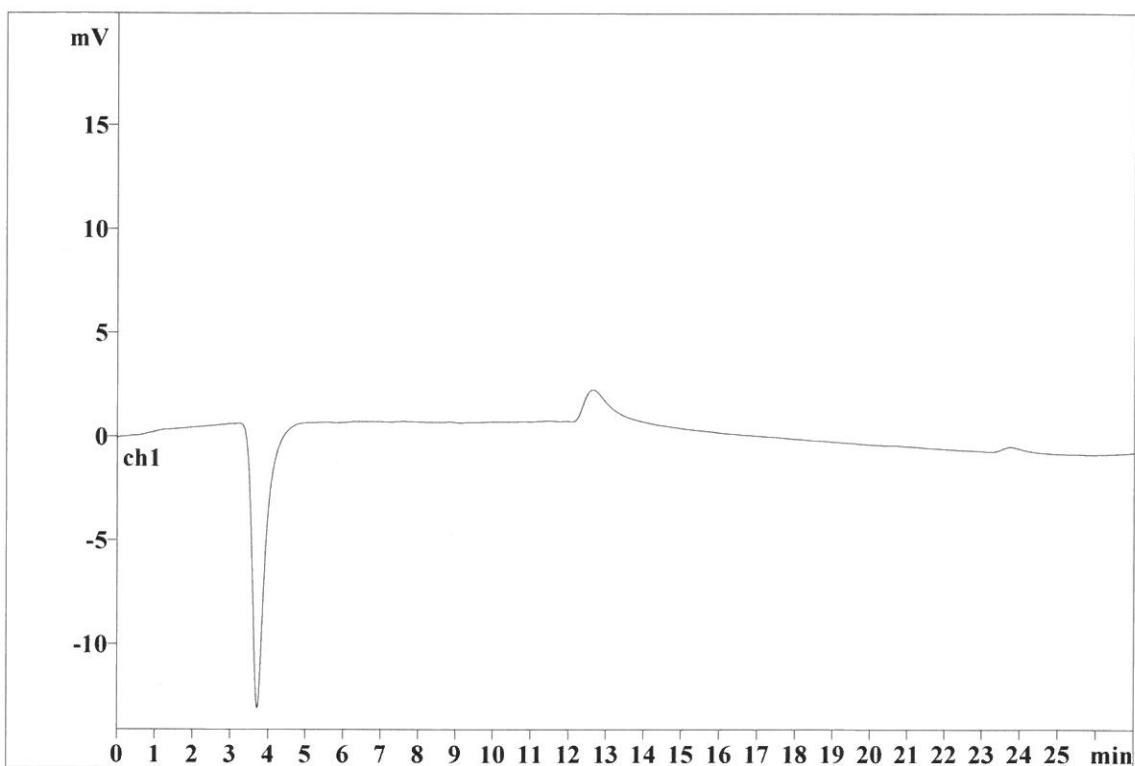
Ident: STD1
Analysis from: 6/6/2022 10:26:33 AM
File: _2022-06-06_

Last save: 6/6/2022 4:23:21 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30625

Last save: 6/6/2022 1:22:0

SAMPLE:
: IZ/AP
Vial number: 2
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

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Report date: 6/6/2022 4:23:40 PM
Printed by: wet

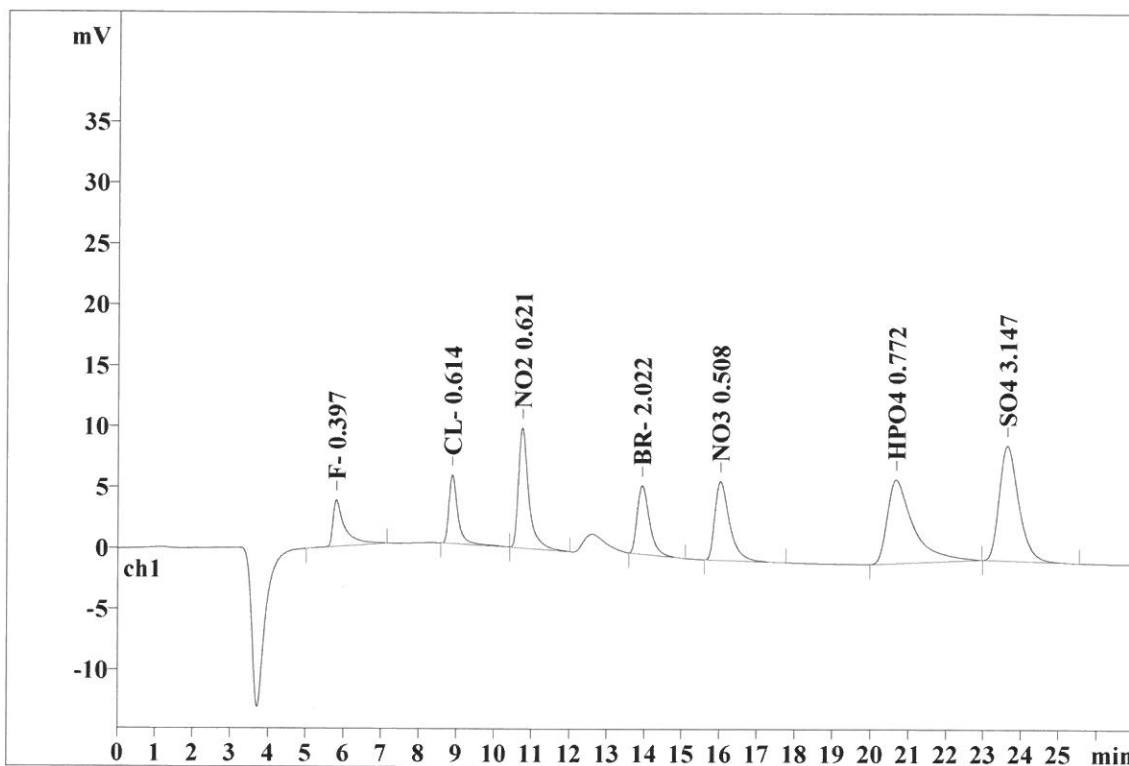
Ident: STD2
Analysis from: 6/6/2022 10:56:34 AM
File: _2022-06-06_

Last save: 6/6/2022 1:57:33 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30626

Last save: 6/6/2022 1:22:0

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.80	0.265	3.82	7.99	83.620	6.21
2	8.88	0.230	5.64	11.81	93.679	6.96
3	10.74	0.272	9.86	20.65	191.055	14.20
4	13.93	0.337	5.63	11.78	127.417	9.47
5	16.02	0.402	6.47	13.56	177.197	13.17
6	20.65	0.656	6.88	14.41	330.601	24.56
7	23.62	0.545	9.45	19.80	342.272	25.43
7	27.00	0.387	47.75	99.99	1345.841	100.00

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Report date: 6/6/2022 4:23:51 PM
Printed by: wet

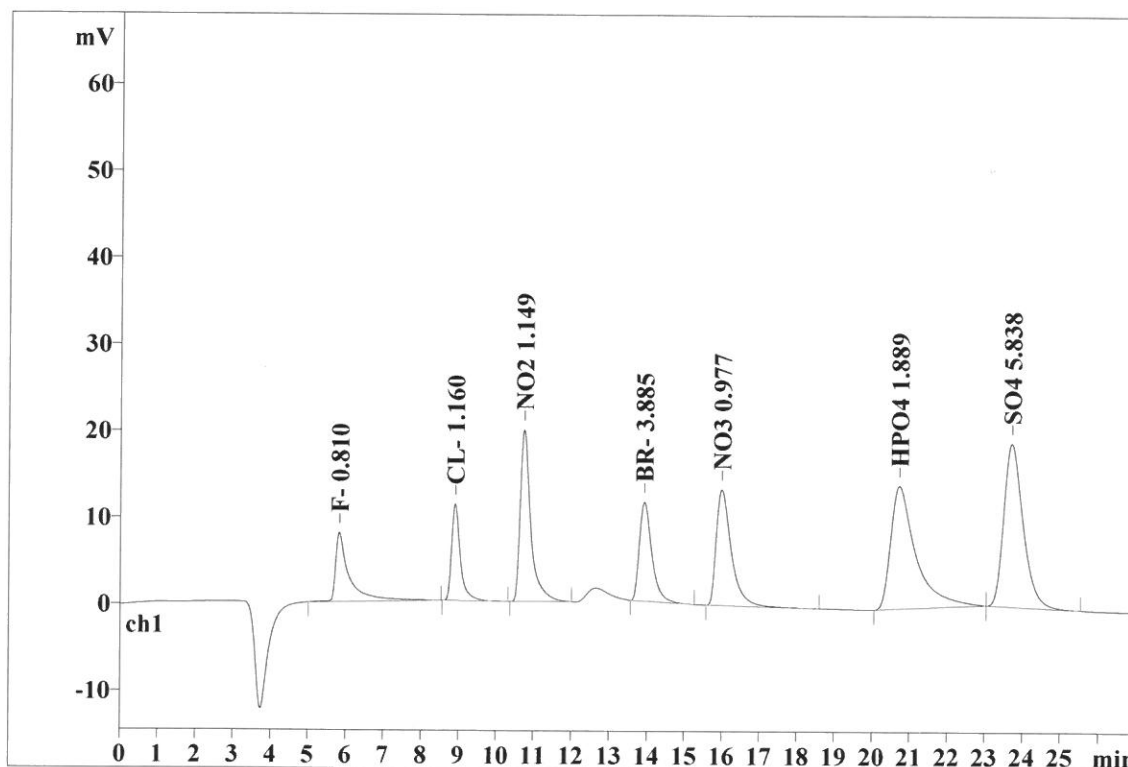
Ident: STD3
Analysis from: 6/6/2022 11:26:12 AM
File: _2022-06-06_

Last save: 6/6/2022 1:57:33 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30627

Last save: 6/6/2022 1:22:0

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.83	0.276	7.98	8.24	202.034	7.37
2	8.89	0.228	11.14	11.51	181.181	6.61
3	10.74	0.271	19.83	20.49	387.054	14.12
4	13.92	0.336	11.42	11.81	260.772	9.51
5	15.98	0.401	13.36	13.80	370.012	13.50
6	20.71	0.636	14.19	14.66	661.562	24.13
7	23.70	0.541	18.85	19.48	678.739	24.76
7	27.00	0.384	96.77	99.99	2741.354	100.00

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Report date: 6/6/2022 4:23:59 PM
Printed by: wet

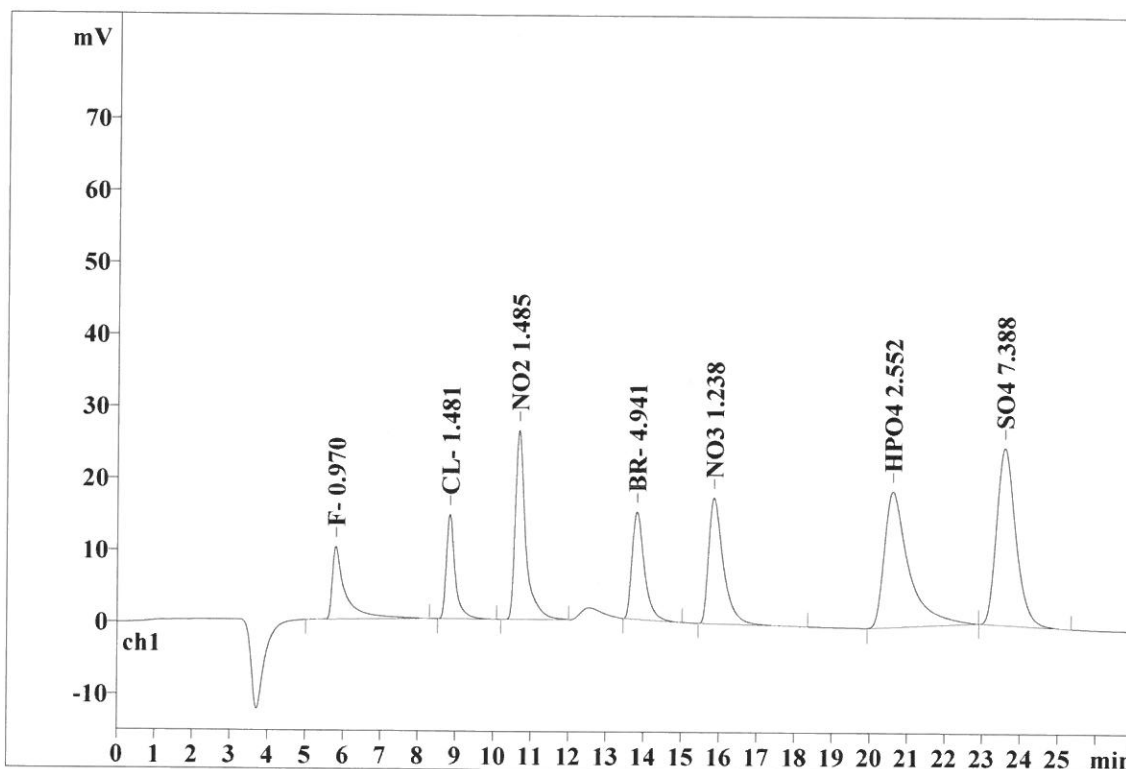
Ident: STD4
Analysis from: 6/6/2022 11:55:50 AM
File: _2022-06-06_

Last save: 6/6/2022 1:57:33 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30628

Last save: 6/6/2022 1:22:0

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.79	0.271	10.11	7.98	247.634	7.00
2	8.83	0.224	14.49	11.43	232.610	6.58
3	10.66	0.267	26.25	20.71	511.520	14.47
4	13.81	0.332	14.92	11.77	336.371	9.51
5	15.85	0.397	17.48	13.79	477.413	13.50
6	20.59	0.621	18.85	14.87	857.783	24.26
7	23.57	0.536	24.64	19.44	872.584	24.68
7	27.00	0.378	126.75	99.99	3535.915	100.00

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Report date: 6/6/2022 4:24:06 PM
Printed by: wet

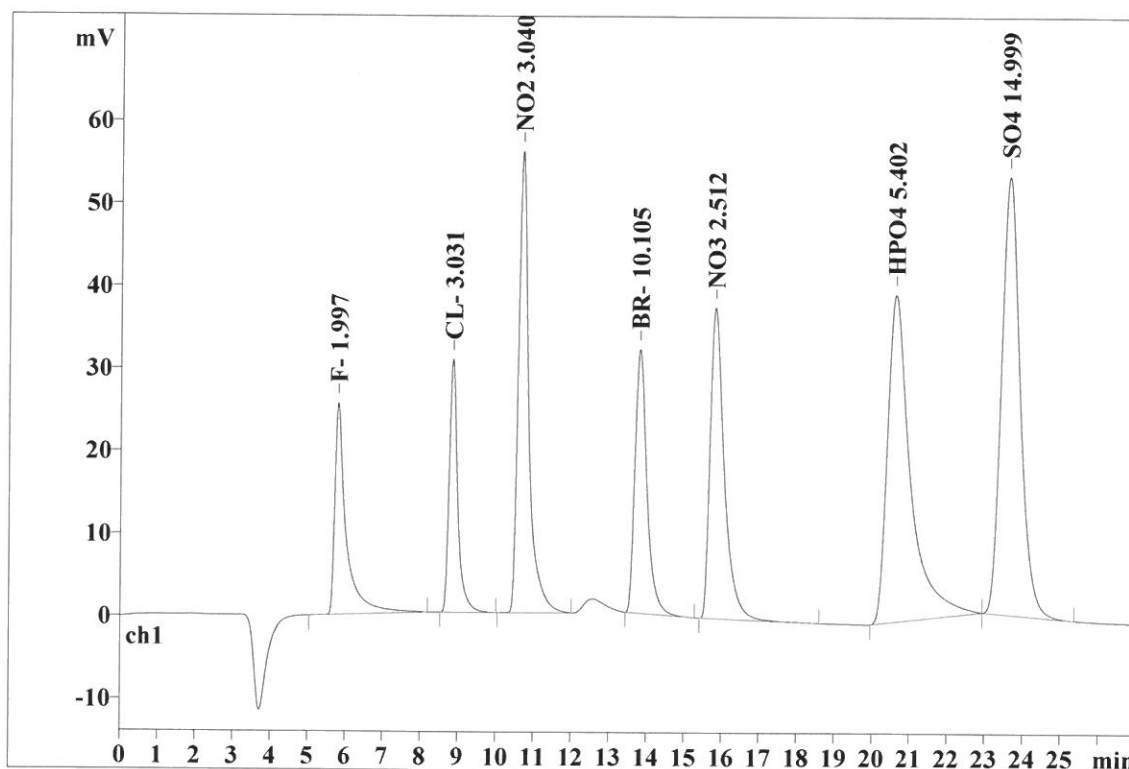
Ident: STD5
Analysis from: 6/6/2022 12:25:27 PM
File: _2022-06-06_

Last save: 6/6/2022 1:57:34 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30629

Last save: 6/6/2022 1:22:0

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.80	0.251	25.63	9.34	541.704	7.38
2	8.84	0.223	30.66	11.17	481.002	6.55
3	10.66	0.272	55.89	20.36	1088.535	14.82
4	13.80	0.326	31.95	11.64	705.983	9.61
5	15.80	0.388	37.67	13.72	1001.322	13.63
6	20.60	0.586	39.66	14.45	1701.703	23.17
7	23.60	0.520	53.07	19.33	1824.275	24.84
7	27.00	0.366	274.54	100.00	7344.525	100.00

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Report date: 6/6/2022 4:24:14 PM
Printed by: wet

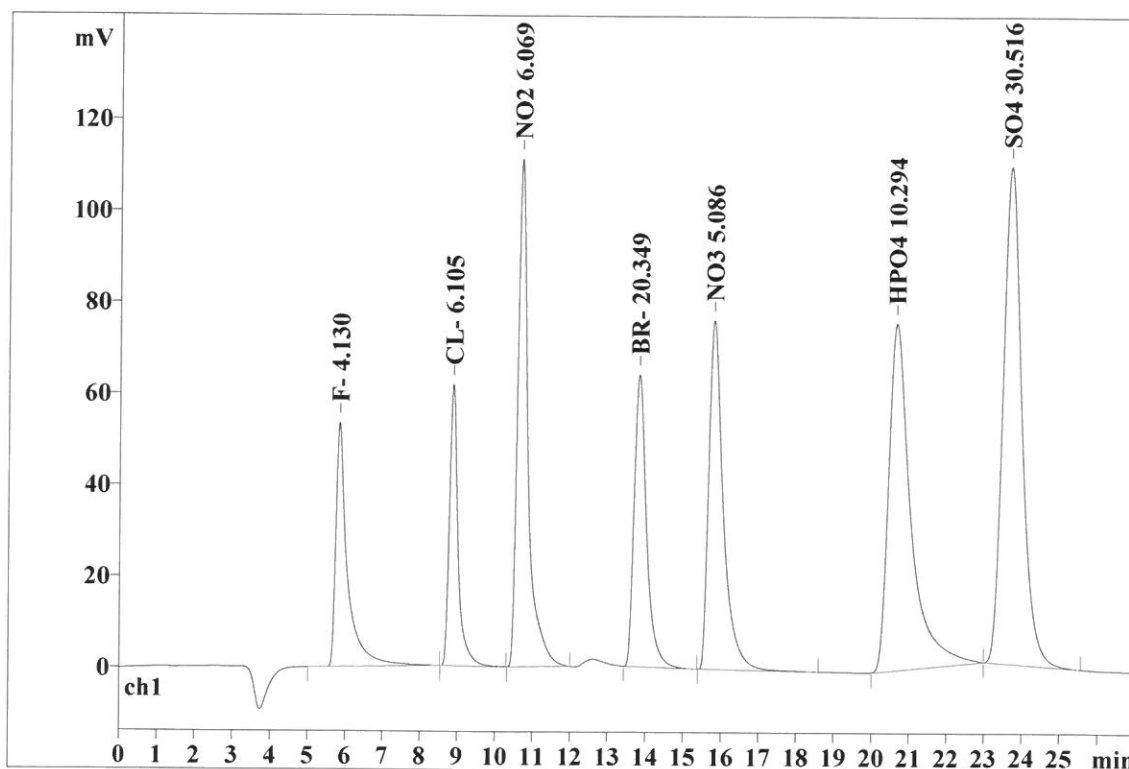
Ident: STD6
Analysis from: 6/6/2022 12:55:05 PM
File: _2022-06-06_

Last save: 6/6/2022 1:57:34 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30630

Last save: 6/6/2022 1:22:0

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.83	0.257	53.40	9.69	1152.174	7.81
2	8.86	0.218	61.57	11.18	973.614	6.60
3	10.67	0.273	111.15	20.17	2211.783	14.99
4	13.81	0.328	63.88	11.59	1439.197	9.76
5	15.78	0.386	76.34	13.86	2059.708	13.96
6	20.63	0.570	75.88	13.77	3150.104	21.36
7	23.67	0.520	108.74	19.74	3764.509	25.52
7	27.00	0.365	550.97	100.00	14751.088	100.00

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Report date: 6/6/2022 4:24:21 PM
Printed by: wet

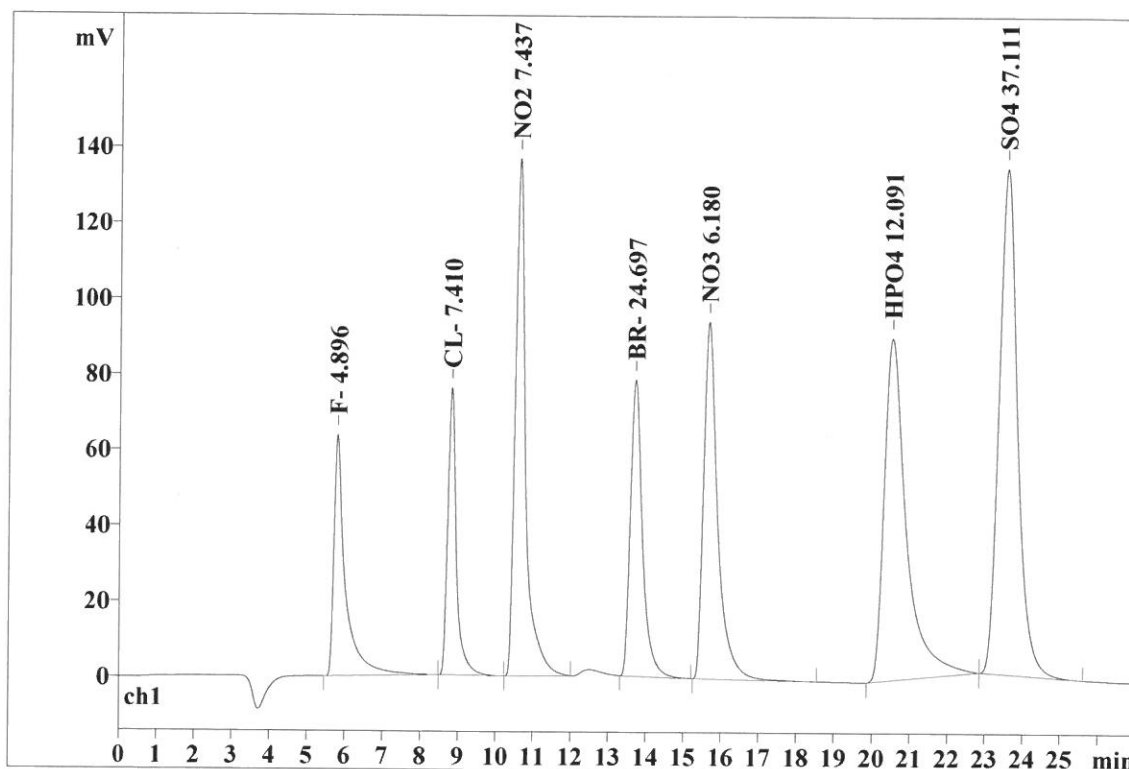
Ident: STD7
Analysis from: 6/6/2022 1:24:43 PM
File: _2022-06-06_

Last save: 6/6/2022 1:57:34 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30631

Last save: 6/6/2022 1:22:0

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.79	0.253	63.70	9.46	1371.250	7.70
2	8.79	0.214	76.02	11.29	1182.802	6.64
3	10.58	0.272	136.69	20.31	2719.321	15.27
4	13.70	0.325	78.31	11.63	1750.416	9.83
5	15.63	0.379	94.32	14.01	2509.507	14.09
6	20.50	0.559	90.42	13.43	3682.091	20.68
7	23.53	0.514	133.66	19.86	4589.224	25.78
7	27.00	0.360	673.12	100.00	17804.611	100.00

This report has been created by IC Net
METROHM LTD

Report date: 6/6/2022 4:24:29 PM
Printed by: wet

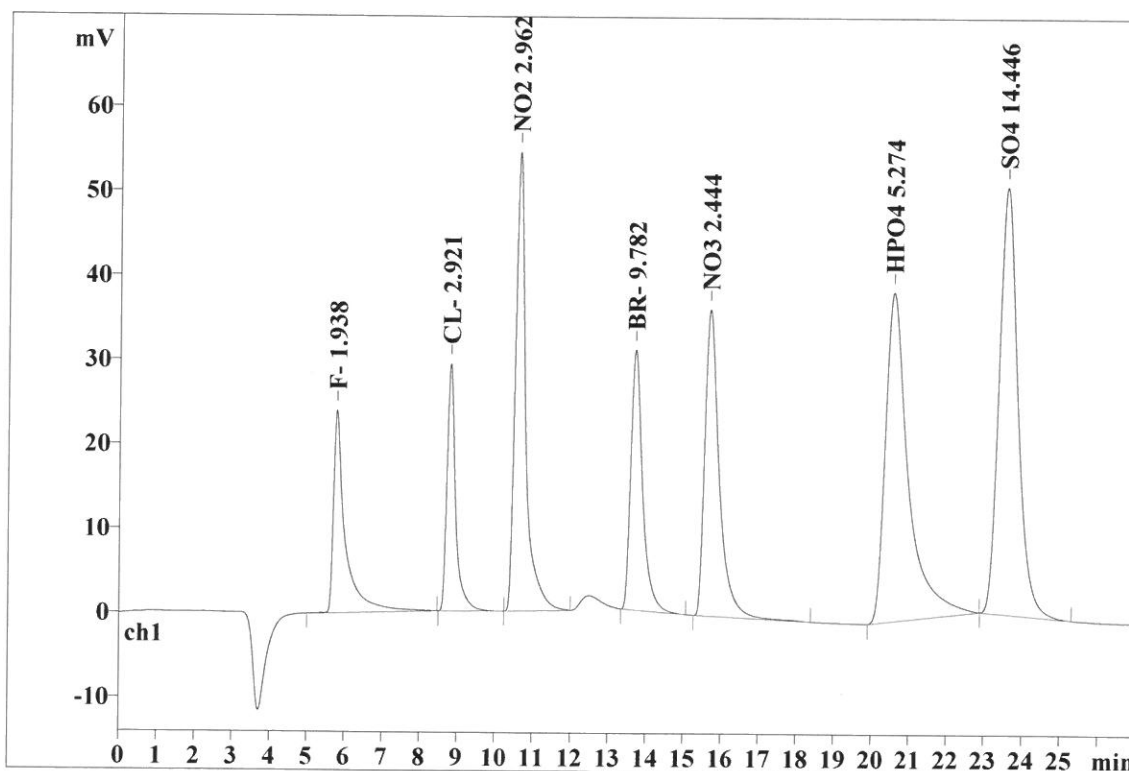
Ident: ICV
Analysis from: 6/6/2022 1:54:23 PM
File: _2022-06-06_

Last save: 6/6/2022 2:21:24 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30632

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.78	0.249	24.02	9.09	524.692	7.37
2	8.79	0.220	29.29	11.08	463.458	6.51
3	10.60	0.267	54.39	20.57	1059.596	14.88
4	13.70	0.324	30.82	11.66	682.839	9.59
5	15.67	0.385	36.29	13.73	973.532	13.67
6	20.55	0.582	38.98	14.74	1663.672	23.36
7	23.55	0.522	50.59	19.14	1755.043	24.64
7	27.00	0.364	264.38	100.00	7122.831	100.00

This report has been created by IC Net
METROHM LTD

Report date: 6/6/2022 4:26:42 PM
Printed by: wet

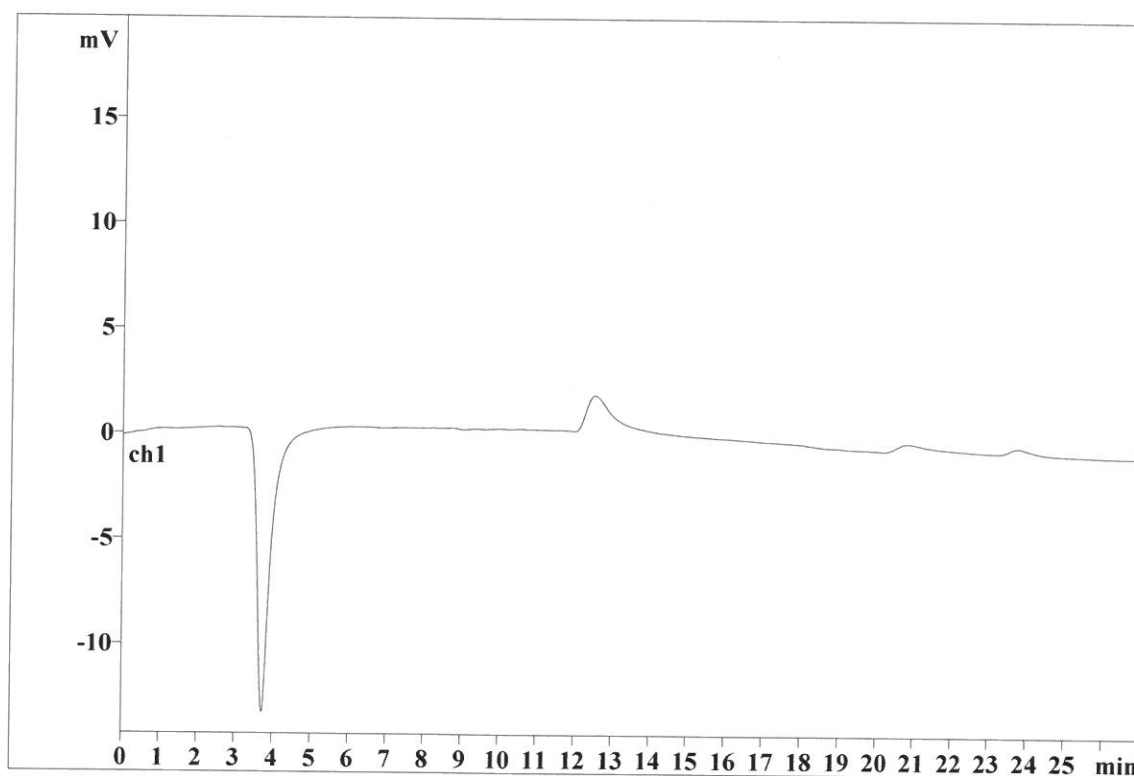
Ident: ICB
Analysis from: 6/6/2022 2:25:42 PM
File: _2022-06-06_

Last save: 6/6/2022 4:25:00 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30633

Last save: 6/6/2022 1:51:4

SAMPLE:
:
Vial number: 10
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:17:04 AM
Printed by: wet

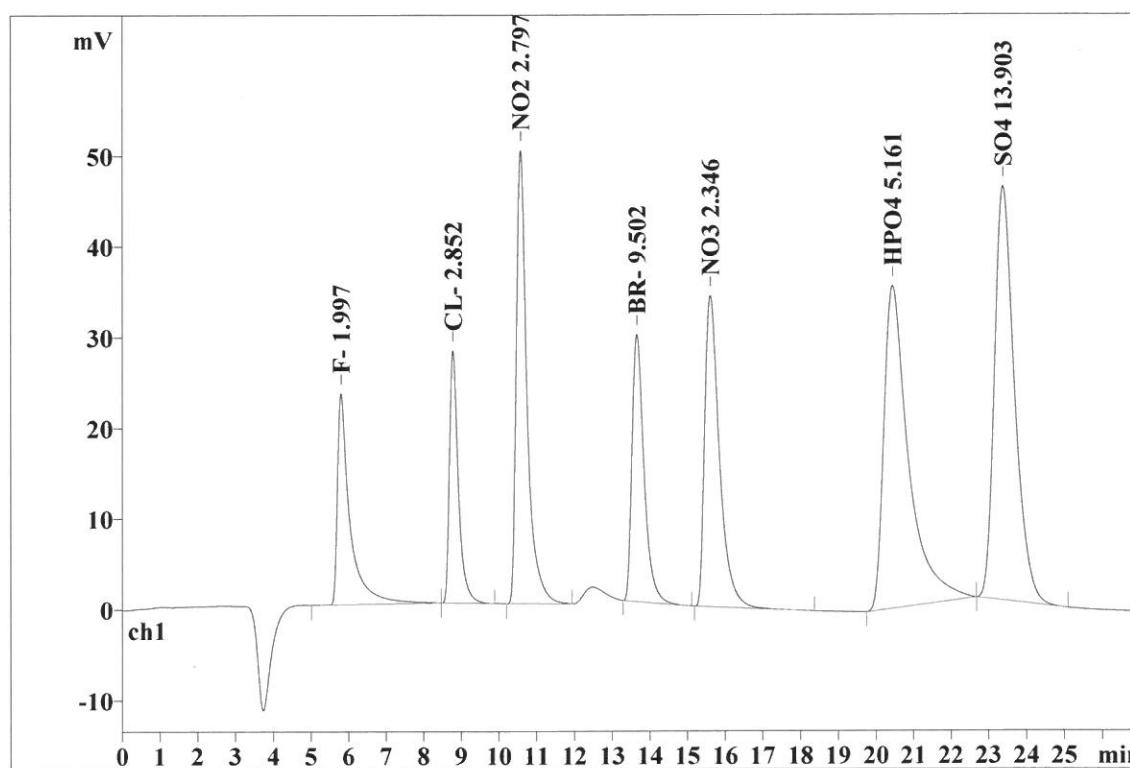
Ident: CCV
Analysis from: 6/9/2022 9:39:58 AM
File: _2022-06-09_

Last save: 6/9/2022 10:06:58 AM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30685

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.79	0.283	23.26	9.45	541.594	7.84
2	8.78	0.234	27.85	11.32	452.354	6.55
3	10.56	0.283	49.97	20.31	998.456	14.46
4	13.64	0.336	29.46	11.97	662.817	9.60
5	15.59	0.403	34.30	13.94	933.161	13.51
6	20.42	0.635	35.57	14.45	1630.141	23.61
7	23.37	0.559	45.63	18.55	1687.241	24.43
7	27.00	0.390	246.05	100.00	6905.763	100.00

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:17:40 AM
Printed by: wet

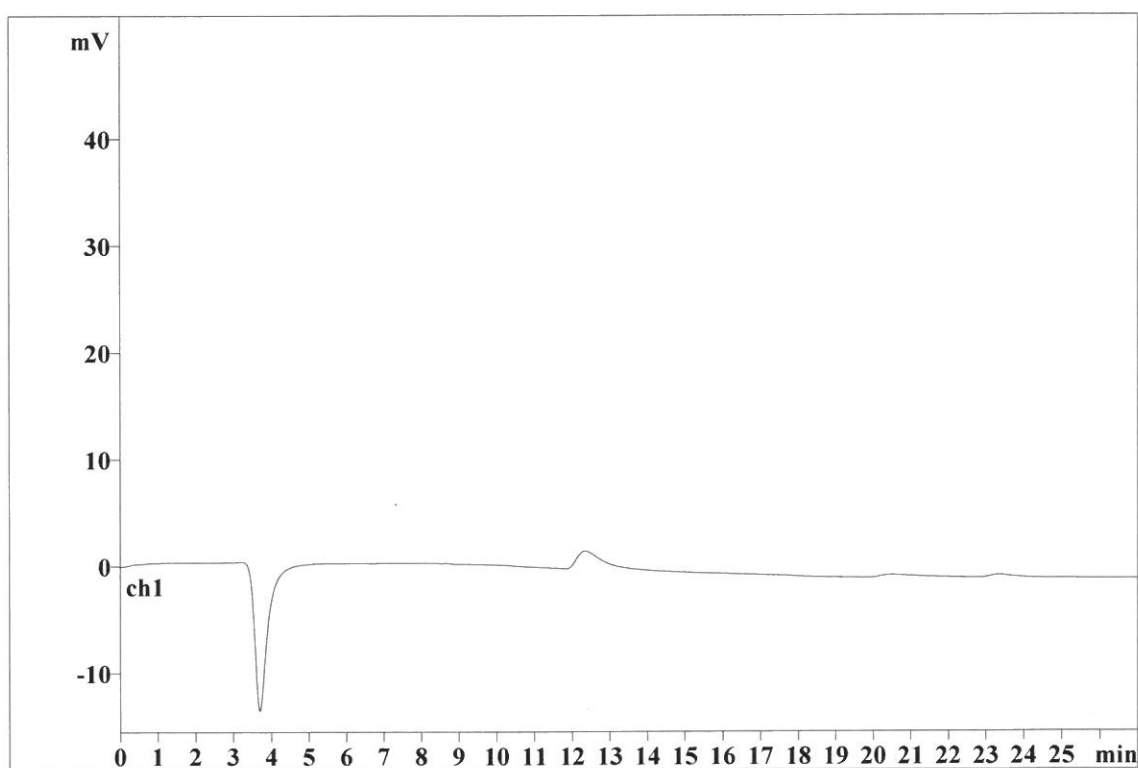
Ident: CCB
Analysis from: 6/9/2022 10:10:03 AM
File: _2022-06-09_

Last save: 6/9/2022 10:37:03 AM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30686

Last save: 6/6/2022 1:51:4

SAMPLE:
: IZ/AP
Vial number: 12
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:18:02 AM
Printed by: wet

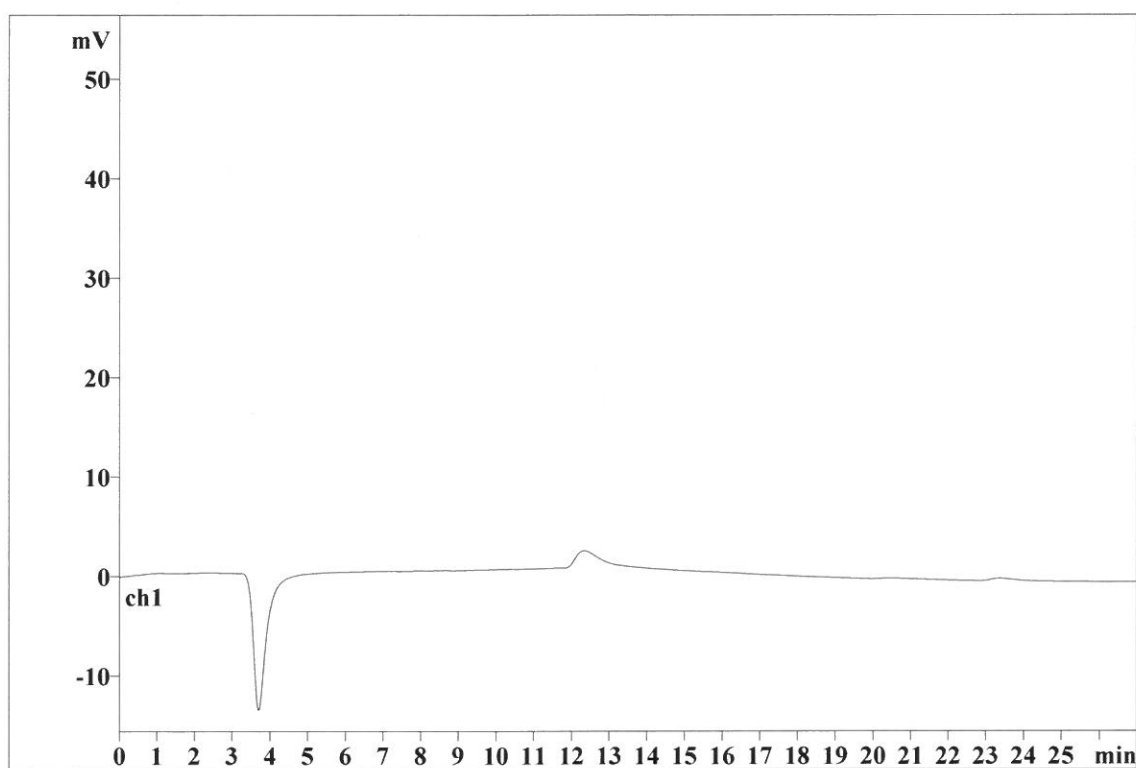
Ident: LB120604BLW
Analysis from: 6/9/2022 10:39:41 AM
File: _2022-06-09_

Last save: 6/10/2022 11:16:06 AM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30687

Last save: 6/6/2022 1:51:4

SAMPLE:
: IZ/AP
Vial number: 13
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:18:22 AM
Printed by: wet

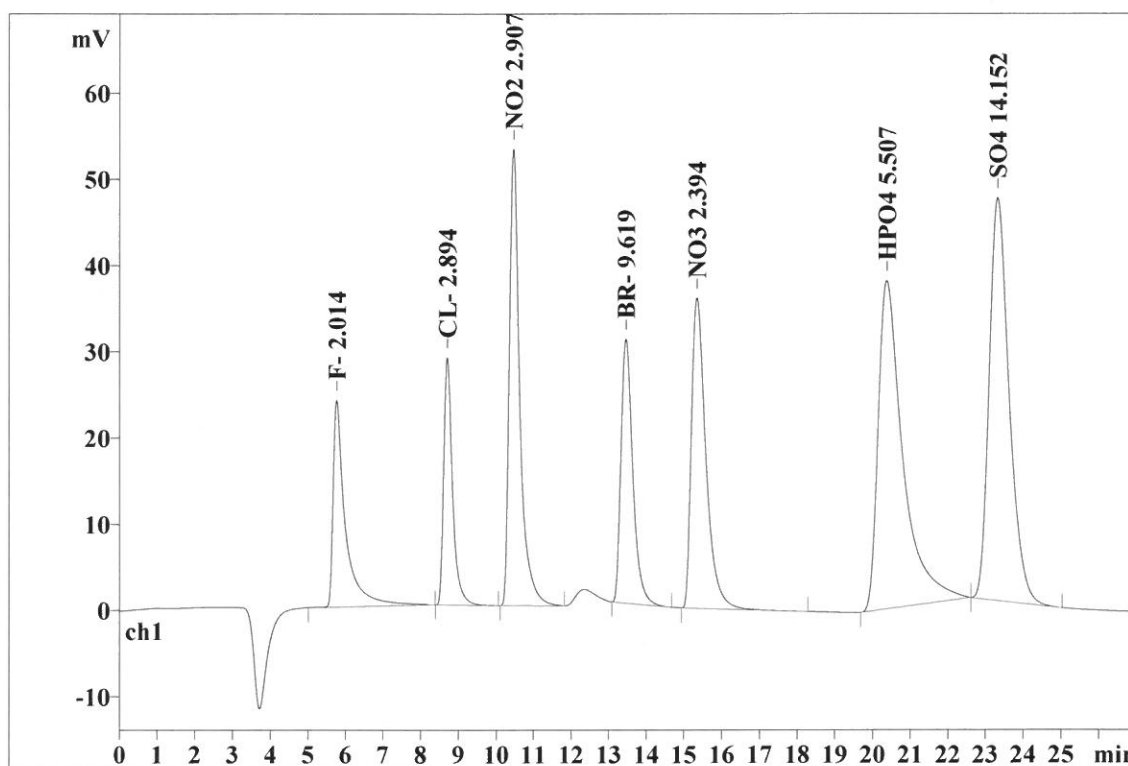
Ident: LB120604BSW
Analysis from: 6/9/2022 11:09:19 AM
File: _2022-06-09_

Last save: 6/10/2022 11:16:06 AM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30688

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.76	0.275	24.02	9.34	546.512	7.68
2	8.69	0.230	28.67	11.15	459.121	6.45
3	10.44	0.278	52.96	20.59	1039.240	14.60
4	13.44	0.327	30.67	11.92	671.188	9.43
5	15.33	0.391	36.03	14.01	952.744	13.38
6	20.36	0.630	38.13	14.82	1732.645	24.34
7	23.30	0.558	46.73	18.17	1718.296	24.13
7	27.00	0.384	257.20	100.00	7119.747	100.00

This report has been created by IC Net
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Report date: 6/10/2022 11:18:39 AM
Printed by: wet

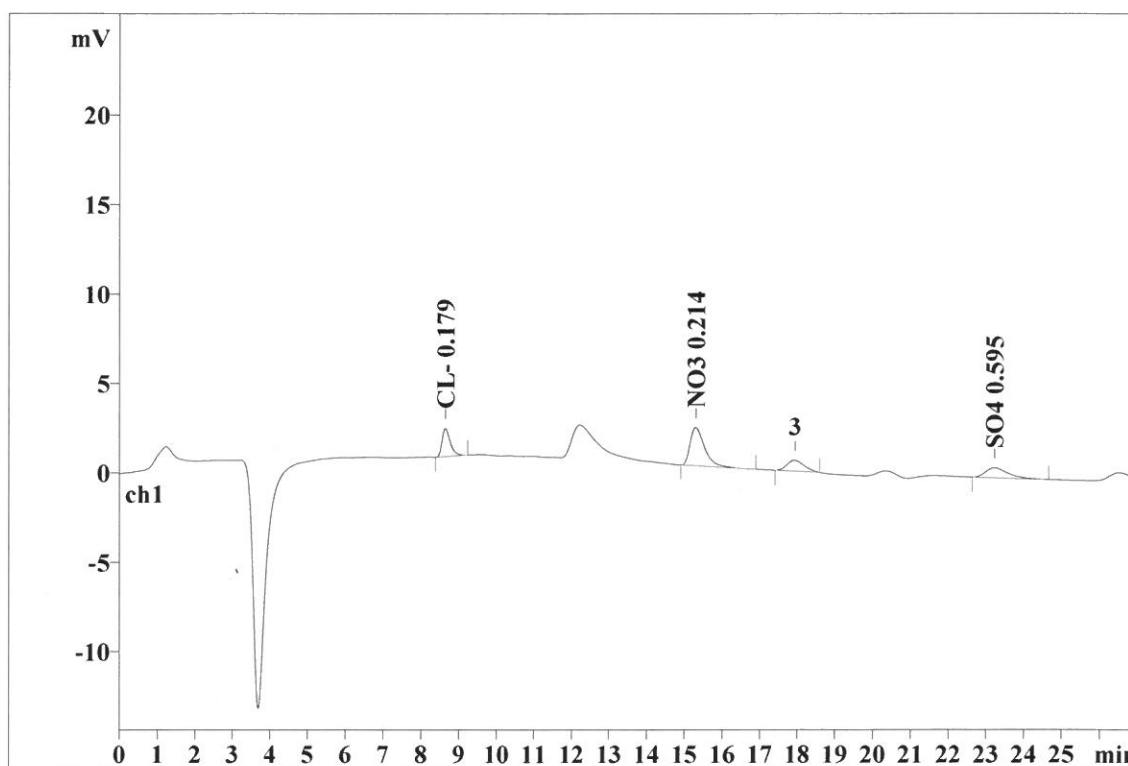
Ident: N3252-01
Analysis from: 6/9/2022 11:54:40 AM
File: _2022-06-09_

Last save: 6/9/2022 12:21:41 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30689

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	0.00	0.000	0.00	0.00	0.000	0.00
2	8.63	0.226	1.58	32.22	23.929	19.46
3	0.00	0.000	0.00	0.00	0.000	0.00
4	0.00	0.000	0.00	0.00	0.000	0.00
5	15.30	0.389	2.14	43.68	56.470	45.93
6	0.00	0.000	0.00	0.00	0.000	0.00
7	23.22	0.612	0.56	11.52	23.097	18.79
7	27.00	0.175	4.28	87.43	103.496	84.18

This report has been created by IC Net
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Report date: 6/10/2022 11:18:53 AM
Printed by: wet

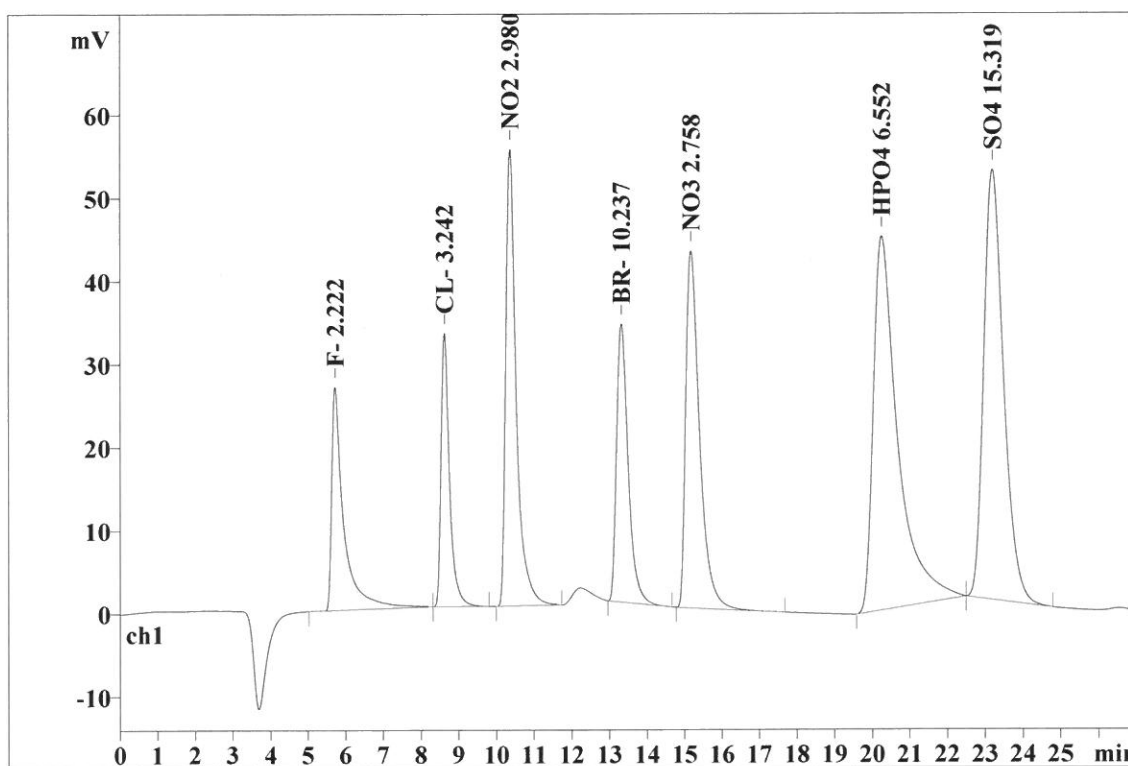
Ident: N3252-01MS
Analysis from: 6/9/2022 12:24:18 PM
File: _2022-06-09_

Last save: 6/9/2022 12:51:18 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30690

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.72	0.268	26.88	9.33	605.971	7.66
2	8.62	0.224	32.89	11.42	514.865	6.51
3	10.35	0.274	54.97	19.09	1066.337	13.48
4	13.31	0.318	33.49	11.63	715.406	9.04
5	15.17	0.377	42.99	14.93	1102.406	13.93
6	20.25	0.623	45.04	15.64	2042.243	25.81
7	23.18	0.545	51.76	17.97	1864.212	23.56
7	27.00	0.376	288.03	100.00	7911.439	100.00

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:19:14 AM
Printed by: wet

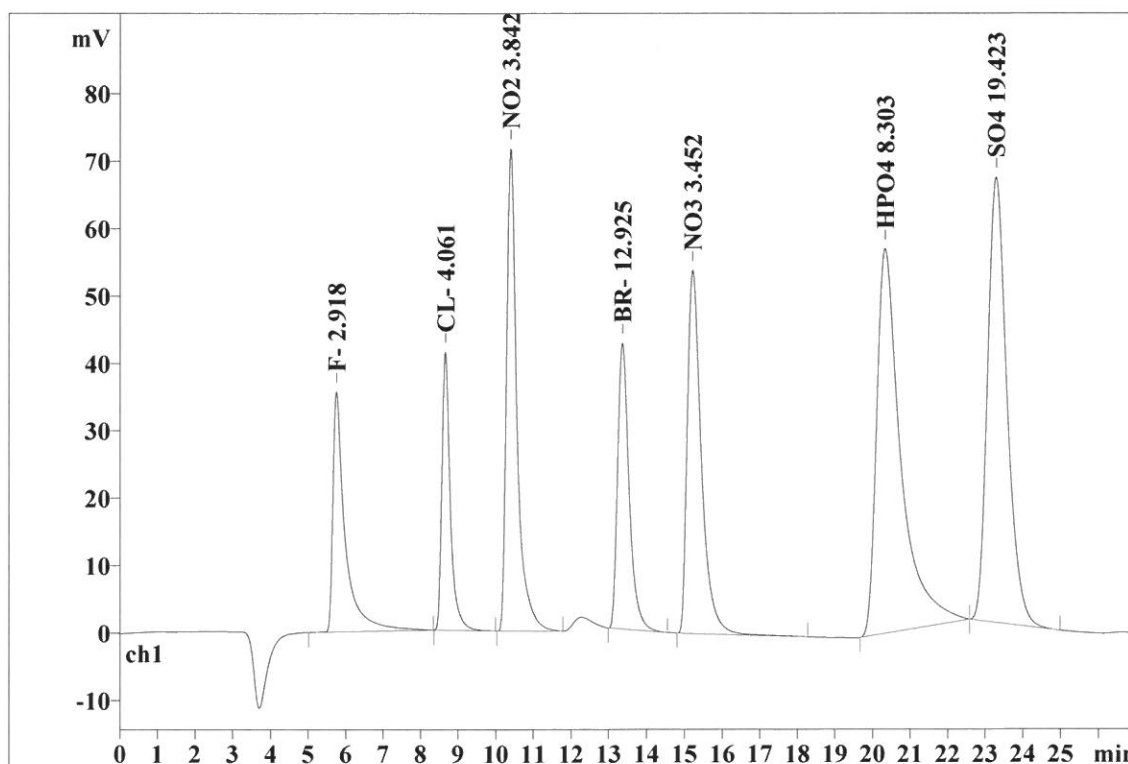
Ident: N3252-01MSD
Analysis from: 6/9/2022 12:53:56 PM
File: _2022-06-09_

Last save: 6/9/2022 1:20:57 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30691

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.75	0.275	35.60	9.68	805.123	7.99
2	8.65	0.223	41.25	11.21	646.133	6.42
3	10.37	0.271	71.55	19.45	1386.001	13.76
4	13.35	0.318	42.44	11.54	907.793	9.01
5	15.20	0.377	53.89	14.65	1387.976	13.78
6	20.31	0.617	57.09	15.52	2560.431	25.42
7	23.26	0.545	66.04	17.95	2377.380	23.61
7	27.00	0.375	367.87	100.00	10070.837	100.00

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:20:02 AM
Printed by: wet

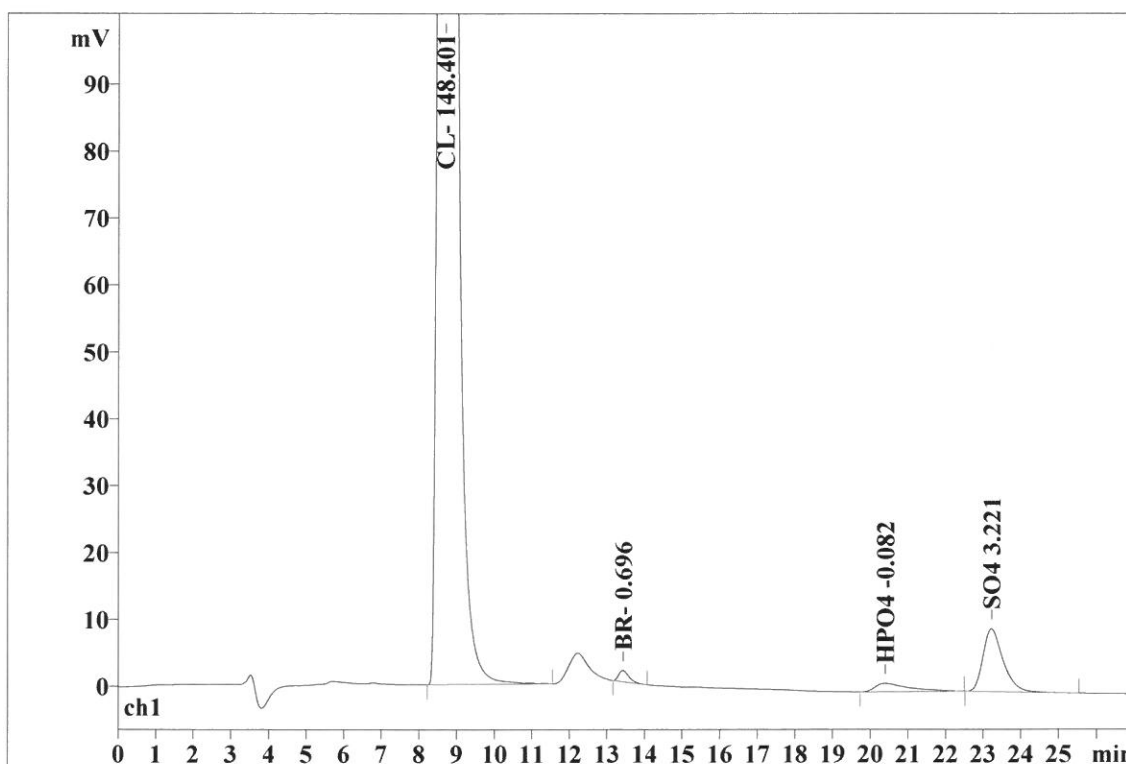
Ident: N3259-01X10
Analysis from: 6/9/2022 1:23:34 PM
File: _2022-06-09_

Last save: 6/9/2022 1:50:34 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30692

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	0.00	0.000	0.00	0.00	0.000	0.00
2	8.67	0.262	1316.17	99.07	23776.777	98.09
3	0.00	0.000	0.00	0.00	0.000	0.00
4	13.43	0.298	1.70	0.13	32.487	0.13
5	0.00	0.000	0.00	0.00	0.000	0.00
6	20.39	0.881	1.26	0.09	77.796	0.32
7	23.21	0.561	9.40	0.71	351.560	1.45
7	27.00	0.286	1328.52	100.00	24238.619	100.00

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:20:16 AM
Printed by: wet

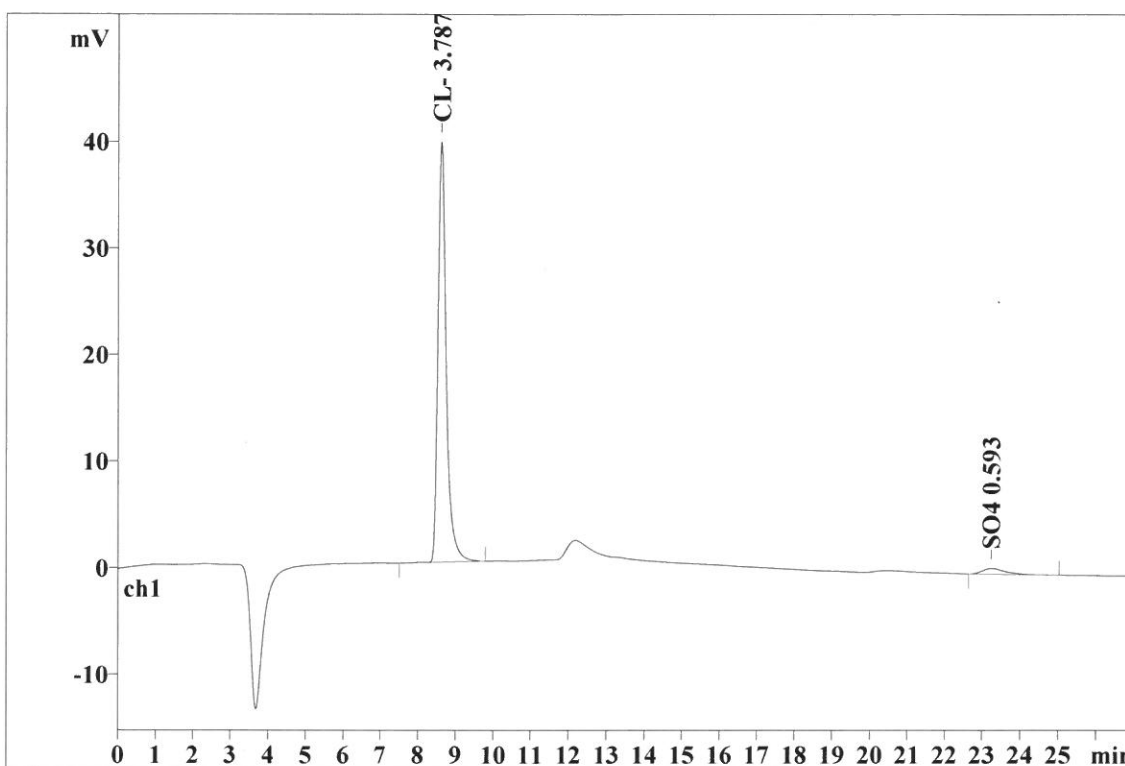
Ident: N3259-01DLX300
Analysis from: 6/9/2022 1:53:12 PM
File: _2022-06-09_

Last save: 6/9/2022 2:20:12 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30693

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	0.00	0.000	0.00	0.00	0.000	0.00
2	8.60	0.220	39.47	98.64	602.132	96.34
3	0.00	0.000	0.00	0.00	0.000	0.00
4	0.00	0.000	0.00	0.00	0.000	0.00
5	0.00	0.000	0.00	0.00	0.000	0.00
6	0.00	0.000	0.00	0.00	0.000	0.00
7	23.24	0.622	0.54	1.36	22.904	3.66
7	27.00	0.120	40.01	100.00	625.036	100.00

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:21:17 AM
Printed by: wet

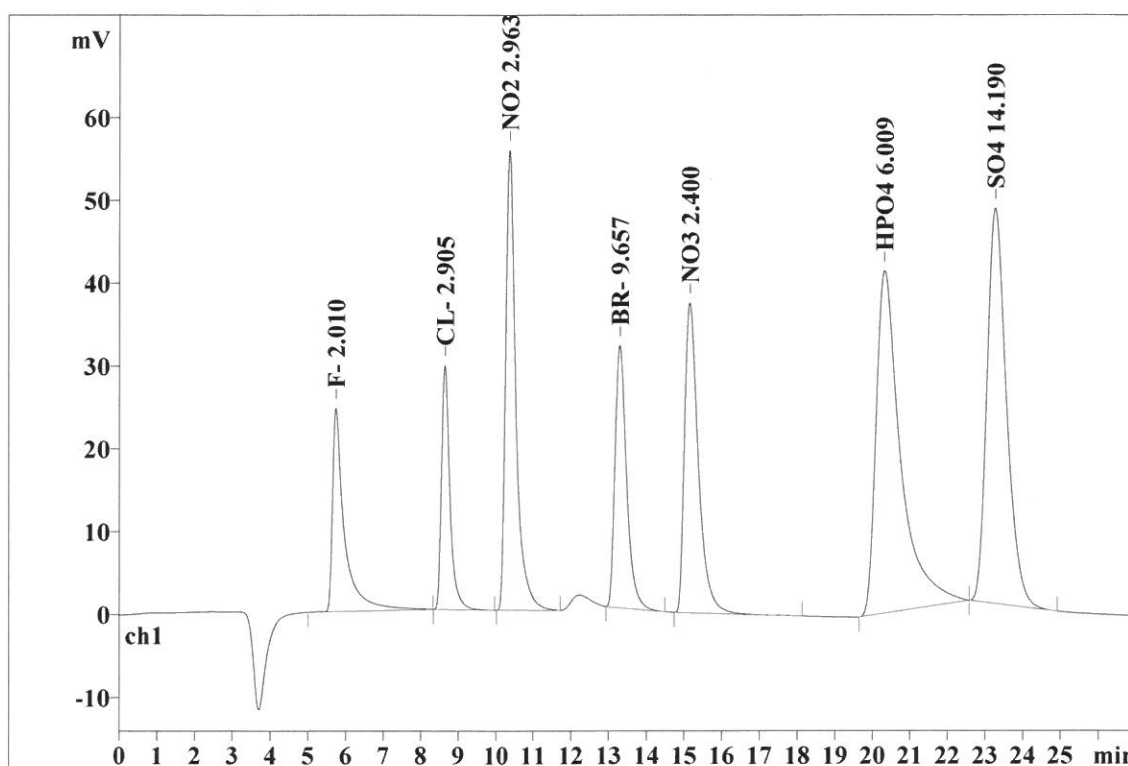
Ident: CCV
Analysis from: 6/9/2022 2:22:55 PM
File: _2022-06-09_

Last save: 6/9/2022 2:49:55 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30694

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.74	0.267	24.57	9.18	545.317	7.47
2	8.63	0.225	29.47	11.01	460.894	6.31
3	10.35	0.270	55.53	20.74	1059.992	14.52
4	13.29	0.317	31.67	11.83	673.929	9.23
5	15.14	0.376	37.42	13.98	955.373	13.09
6	20.31	0.626	41.37	15.45	1881.458	25.77
7	23.25	0.548	47.73	17.83	1723.147	23.60
7	27.00	0.376	267.76	100.00	7300.109	100.00

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:21:39 AM
Printed by: wet

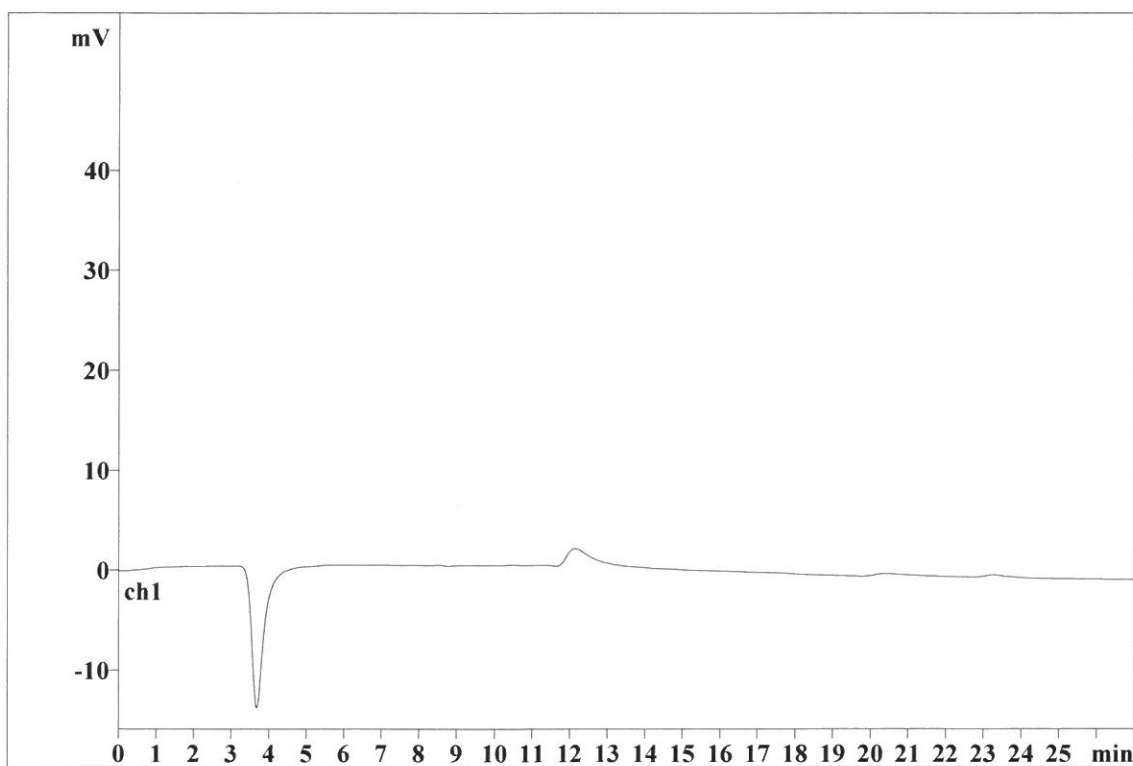
Ident: CCB
Analysis from: 6/9/2022 2:56:07 PM
File: _2022-06-09_

Last save: 6/9/2022 3:23:07 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30695

Last save: 6/6/2022 1:51:4

SAMPLE:
: IZ/AP
Vial number: 12
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:23:34 AM
Printed by: wet

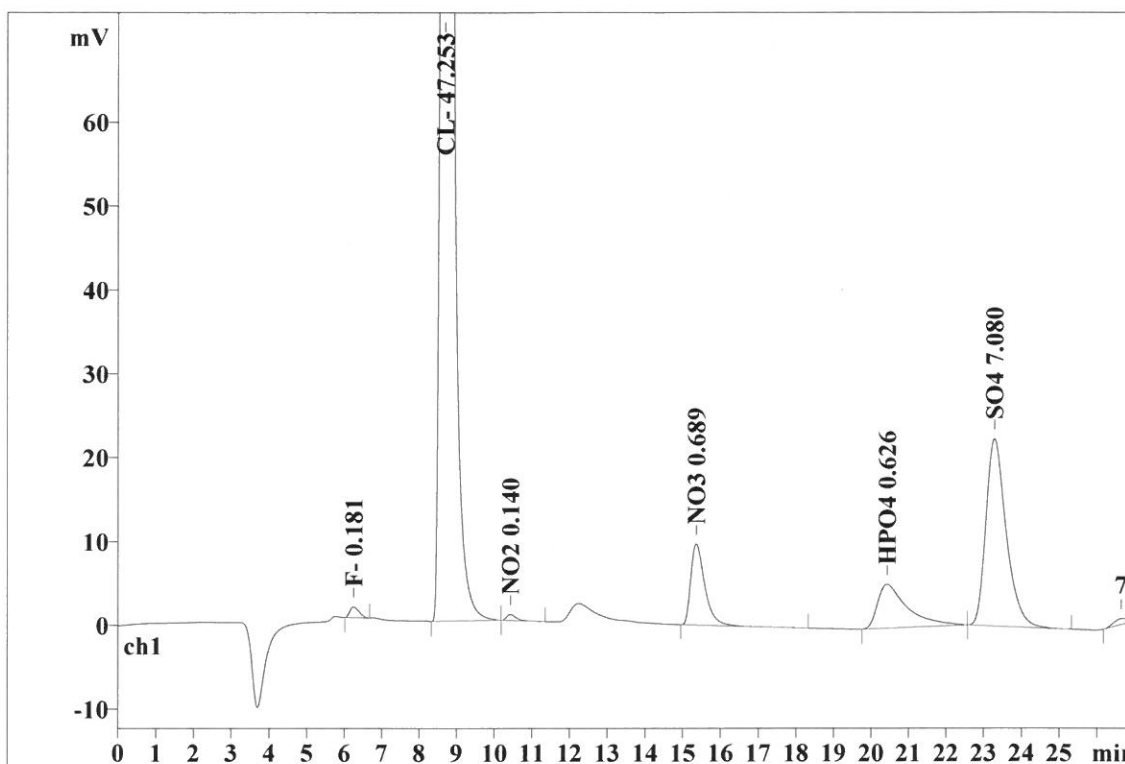
Ident: N3297-02
Analysis from: 6/9/2022 5:20:43 PM
File: _2022-06-09_

Last save: 6/10/2022 11:23:06 AM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30697

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	6.24	0.278	1.28	0.23	21.897	0.24
2	8.68	0.208	523.60	92.91	7567.690	84.15
3	10.43	0.261	0.73	0.13	12.837	0.14
4	0.00	0.000	0.00	0.00	0.000	0.00
5	15.35	0.384	9.69	1.72	251.574	2.80
6	20.42	0.768	5.22	0.93	287.464	3.20
7	23.27	0.561	22.33	3.96	834.031	9.27
7	27.00	0.351	562.84	99.87	8975.493	99.81

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:24:06 AM
Printed by: wet

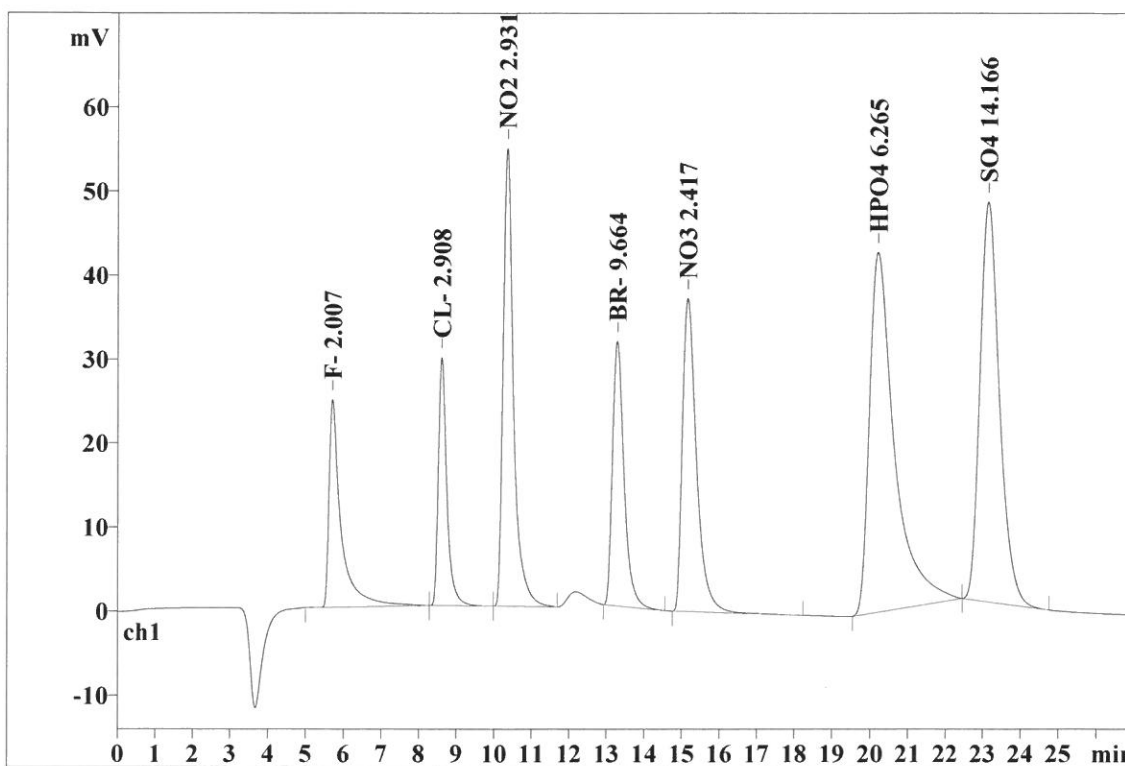
Ident: CCV
Analysis from: 6/9/2022 5:50:26 PM
File: _2022-06-09_

Last save: 6/9/2022 6:17:26 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30698

Last save: 6/6/2022 1:51:4

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height mV	Height %	Area mV*sec	Area %
1	5.71	0.262	24.75	9.23	544.384	7.39
2	8.60	0.225	29.53	11.01	461.394	6.26
3	10.33	0.272	54.52	20.34	1047.908	14.22
4	13.28	0.319	31.51	11.75	674.387	9.15
5	15.15	0.380	37.29	13.91	962.171	13.06
6	20.19	0.628	42.86	15.99	1957.192	26.57
7	23.12	0.547	47.62	17.76	1720.035	23.35
7	27.00	0.376	268.07	100.00	7367.471	100.00

This report has been created by IC Net
METROHM LTD

Report date: 6/10/2022 11:24:22 AM
Printed by: wet

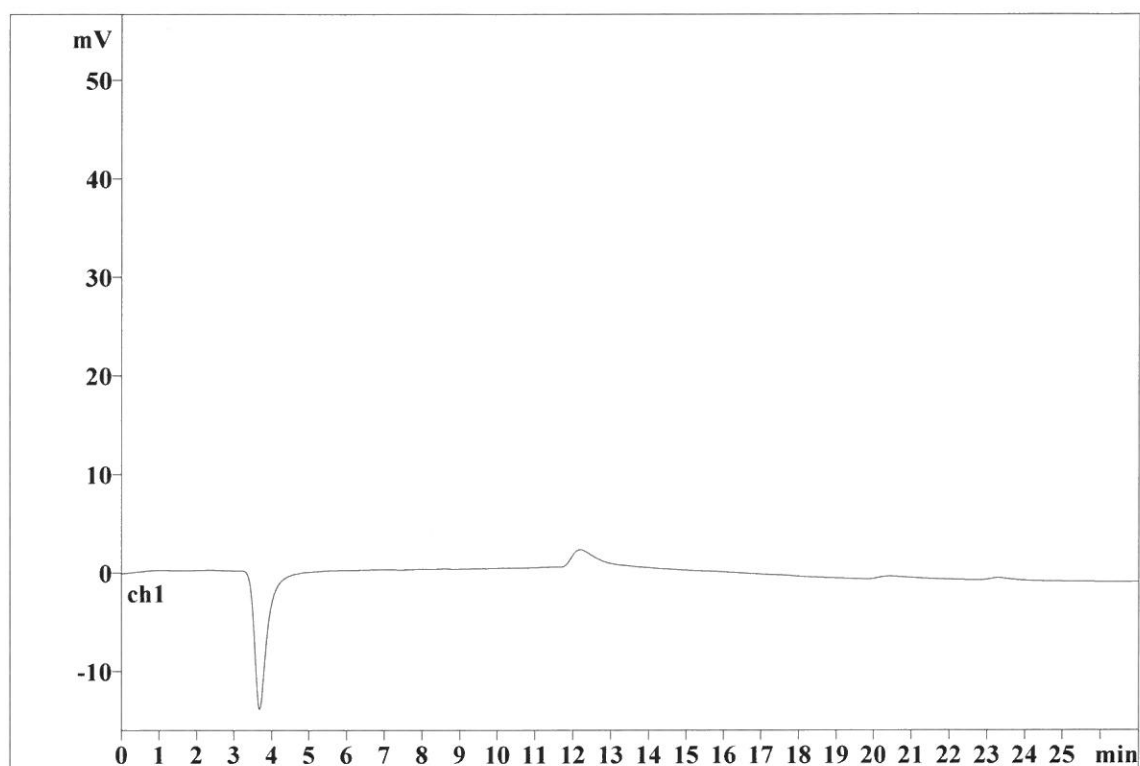
Ident: CCB
Analysis from: 6/9/2022 6:20:05 PM
File: _2022-06-09_

Last save: 6/9/2022 6:47:05 PM

Method: AnionsIC2-060622.mtw
Run operator: wet
Analysis number: 30699

Last save: 6/6/2022 1:51:4

SAMPLE:
: IZ/AP
Vial number: 12
Volume: 20.0 μ L
Dilution: 1.00
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB120613

Reagent/Standard	Lot/Log #
COD ICV-LCS std, 50ppm	WP96871
COD calibration std. 100 ppm	WP96868
COD calibration std. 10 ppm	WP96866
COD calibration std. 150 ppm	WP96869
COD calibration std. 50 ppm	WP96867
COD calibration std. 0 ppm	WP96865
COD Digestion Vials Low Level 0-150Mg/L	W2831
COD ICV-LCS std, 50ppm	WP97294
COD CCV std, 50ppm	WP97293
COD LOD std, 5ppm	WP97295
COD LOQ std, 10.0PPM	WP97296

Temp In (C): 148	Date In: 06/10/2022	Time In: 10:15
Temp Out (C): 150	Date Out: 06/10/2022	Time Out: 12:15

Intercept: 0.5982

Slope: 0.9936

Regression: 0.9999

Seq	Lab ID	TrueValue (mg/l)	DF	MATRIX	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	Water	0.000	-0.602		05/19/2022	13:35
2	CAL2	10	1	Water	11.000	10.469	-4.7	05/19/2022	13:35
3	CAL3	50	1	Water	50.000	49.72	0.6	05/19/2022	13:36
4	CAL4	100	1	Water	101.000	101.049	-1	05/19/2022	13:36
5	CAL5	150	1	Water	149.000	149.358	0.4	05/19/2022	13:37

Analysis Method: SM5220 D

ANALYST: Iwona

Parameter: COD

SUPERVISOR REVIEW BY: jignesh

Run Number: LB120613

Seq	Lab ID	True Value (mg/l)	Initial Weight (g)	Final Vol (ml)	DF	MATRIX	Reading	Result	AnalDate	AnalTime
1	ICV	50	NA	NA	1	Water	51.000	50.726	05/19/2022	13:37
2	ICB		NA	NA	1	Water	0.000	-0.602	05/19/2022	13:38
3	CCV1	50	NA	NA	1	Water	51.000	50.726	06/10/2022	14:15
4	CCB1		NA	NA	1	Water	0.000	-0.602	06/10/2022	14:15
5	LB120613BL		NA	NA	1	Water	1.000	0.404	06/10/2022	14:16
6	LB120613BS	50	NA	NA	1	Water	50.000	49.720	06/10/2022	14:16
7	N3214-09		NA	NA	1	Water	5.000	4.430	06/10/2022	14:17
8	N3259-01		NA	NA	10	Water	44.000	43.681	06/10/2022	14:17
9	N3261-01		NA	NA	10	Water	28.000	27.578	06/10/2022	14:18
10	N3263-01		NA	NA	1	Water	22.000	21.540	06/10/2022	14:18
11	N3263-01DUP		NA	NA	1	Water	23.000	22.546	06/10/2022	14:19
12	N3263-01MS	50	NA	NA	1	Water	71.000	70.855	06/10/2022	14:19
13	N3263-01MSD	50	NA	NA	1	Water	71.000	70.855	06/10/2022	14:20
14	N3263-03		NA	NA	1	Water	64.000	63.810	06/10/2022	14:20
15	CCV2	50	NA	NA	1	Water	49.000	48.714	06/10/2022	14:21
16	CCB2		NA	NA	1	Water	1.000	0.404	06/10/2022	14:21
17	N3263-05		NA	NA	1	Water	21.000	20.533	06/10/2022	14:22
18	CCV3	50	NA	NA	1	Water	50.000	49.720	06/10/2022	14:22
19	CCB3		NA	NA	1	Water	1.000	0.404	06/10/2022	14:23

WORKLIST(Hardcopy Internal Chain)

LB120613

WorkList Name : COD-060922 WorkList ID : 160405 Department : Wet-Chemistry Date : 06-09-2022 15:51:54

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
06/27/2022	Water	N3214-09	COD	Conc H2SO4 to	CHEM02	QA Of	MDL-WATER-03-QT2-2022	06/06/2022	SM5220 D
06/21/2022	Water	N3259-01	COD	Conc H2SO4 to	INFR01	N11	BI-WEEKLY-INFLUENT	06/08/2022	SM5220 D
06/21/2022	Water	N3261-01	COD	Conc H2SO4 to	INFR01	N11	BI-WEEKLY-DECANT	06/08/2022	SM5220 D
06/15/2022	Water	N3263-01	COD	Conc H2SO4 to	PSEG04	P11	DSW002	06/08/2022	SM5220 D
06/15/2022	Water	N3263-03	COD	Conc H2SO4 to	PSEG04	P11	DSW001	06/08/2022	SM5220 D
06/15/2022	Water	N3263-05	COD	Conc H2SO4 to	PSEG04	P11	RWS003	06/08/2022	SM5220 D

Date/Time 6/10/22 09:40
 Raw Sample Received by: 12/61
 Raw Sample Relinquished by: KS(wc)

Date/Time 6/10/22 11:20
 Raw Sample Received by: KS(wc)
 Raw Sample Relinquished by: 12/61

SOP ID : M365.3 & SM4500-P E-17

SDG No : N/A

Start Digest Date: 06/09/2022 Time : 09:45 Temp : 94 °C

Matrix : WATER

End Digest Date: 06/09/2022 Time : 11:20 Temp : 96 °C

Pipette ID : WA

Balance ID : N/A

Hood ID : WC HOOD#3

Digestion tube ID : M5041

Block Thermometer ID : WC-Block#1

Block ID : WC S-2, WC S-1

Filter paper ID : N/A

Prep Technician Signature: 12

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: KS

Standardized Name	MLS USED	STD REF. # FROM LOG
PBW	50ml	W2606
LCSW	0.5ml	WP96810
MS/MSD	0.5ml	WP96809
LOD	50ml	WP97266
LOQ	50ml	WP97267

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ml	WP95451
AMMONIUM MOLYBDATE	0.4g	W2611
pH Paper 0-14	N/A	W2910
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP97107
CAL2	CAL2	50.0ML	WP97108
CAL3	CAL3	50.0ML	WP97109
CAL4	CAL4	50.0ML	WP97110
CAL5	CAL5	50.0ML	WP97111
CAL6	CAL6	50.0ML	WP97112
ICV	ICV	50.0ML	WP97116
ICB	ICB	50.0ML	W2606
CCV	CCV	50.0ML	WP97115
CCB	CCB	50.0ML	W2606

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

12
6/9/22

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Comment	Prep Pos
N3200-01	EFFLUENT	50	50	<2	N/A	N/A	N/A	N/A
N3214-07	LOD-MDL-WATER-01-QT2-2022	50	50	<2	N/A	N/A	N/A	N/A
N3214-08	LOQ-WATER-02-QT2-2022	50	50	<2	N/A	N/A	N/A	N/A
N3259-01	BI-WEEKLY-INFLUENT	50	50	<2	N/A	N/A	N/A	N/A
N3261-01	BI-WEEKLY-DECANT	50	50	<2	N/A	N/A	N/A	N/A
N3261-01DUP	BI-WEEKLY-DECANTDUP	50	50	<2	N/A	N/A	N/A	N/A
N3261-01MS	BI-WEEKLY-DECANTMS	50	50	<2	N/A	N/A	N/A	N/A
N3261-01MSD	BI-WEEKLY-DECANTMSD	50	50	<2	N/A	N/A	N/A	N/A
PB145436BL	PBW436	50	50	<2	N/A	N/A	N/A	N/A
PB145436BS	LCS436	50	50	<2	N/A	N/A	N/A	N/A



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

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB120567

Review By	jignesh	Review On	6/8/2022 5:01:14 PM
Supervise By	mohammad	Supervise On	6/9/2022 12:00:07 PM
SubDirectory	LB120567	Test	Oil and Grease
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W2919,M4909,EP2247,WP95586,NA,NA,WP95587,WP95588,NA		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	LB120567BL	LB120567BL	MB	06/08/22 16:15		jignesh	OK
2	LB120567BS	LB120567BS	LCS	06/08/22 16:15		jignesh	OK
3	LB120567BSD	LB120567BSD	LCSD	06/08/22 16:15		jignesh	OK
4	N3214-07	LOD-MDL-WATER-01	SAM	06/08/22 16:15		jignesh	OK
5	N3214-08	LOQ-WATER-02-QT2	SAM	06/08/22 16:15		jignesh	OK
6	N3259-02	BI-WEEKLY-INFLUEN	SAM	06/08/22 16:15		jignesh	OK
7	N3261-02	BI-WEEKLY-DECANT	SAM	06/08/22 16:15		jignesh	OK



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

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB120595

Review By	Iwona	Review On	6/9/2022 3:26:55 PM
Supervise By	jignesh	Supervise On	6/10/2022 11:10:58 AM
SubDirectory	LB120595	Test	Phosphorus-Total
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP97112,WP97111,WP97110,WP97109,WP97108,WP97107,WP97115,WP97249,WP96861,WP95405,WP97267,W		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/09/22 14:15		Iwona	OK
2	CAL2	CAL2	CAL	06/09/22 14:15		Iwona	OK
3	CAL3	CAL3	CAL	06/09/22 14:16		Iwona	OK
4	CAL4	CAL4	CAL	06/09/22 14:16		Iwona	OK
5	CAL5	CAL5	CAL	06/09/22 14:17		Iwona	OK
6	CAL6	CAL6	CAL	06/09/22 14:17		Iwona	OK
7	ICV	ICV	ICV	06/09/22 14:18		Iwona	OK
8	ICB	ICB	ICB	06/09/22 14:18		Iwona	OK
9	CCV1	CCV1	CCV	06/09/22 14:19		Iwona	OK
10	CCB1	CCB1	CCB	06/09/22 14:19		Iwona	OK
11	PB145436BL	PB145436BL	MB	06/09/22 14:20		Iwona	OK
12	PB145436BS	PB145436BS	LCS	06/09/22 14:20		Iwona	OK
13	N3200-01	EFFLUENT	SAM	06/09/22 14:21		Iwona	OK
14	N3214-07	LOD-MDL-WATER-01	SAM	06/09/22 14:21		Iwona	OK
15	N3214-08	LOQ-WATER-02-QT2	SAM	06/09/22 14:22		Iwona	OK
16	N3259-01	BI-WEEKLY-INFLUEN	SAM	06/09/22 14:22		Iwona	OK
17	N3261-01	BI-WEEKLY-DECANT	SAM	06/09/22 14:23		Iwona	OK
18	N3261-01DUP	BI-WEEKLY-DECANT	DUP	06/09/22 14:23		Iwona	OK
19	N3261-01MS	BI-WEEKLY-DECANT	MS	06/09/22 14:24		Iwona	OK
20	N3261-01MSD	BI-WEEKLY-DECANT	MSD	06/09/22 14:24		Iwona	OK



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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB120595

Review By	Iwona	Review On	6/9/2022 3:26:55 PM
Supervise By	jignesh	Supervise On	6/10/2022 11:10:58 AM
SubDirectory	LB120595	Test	Phosphorus-Total

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP97112,WP97111,WP97110,WP97109,WP97108,WP97107,WP97115,WP97249,WP96861,WP95405,WP97267,W

21	CCV2	CCV2	CCV	06/09/22 14:25		Iwona	OK
22	CCB2	CCB2	CCB	06/09/22 14:25		Iwona	OK
23	N3200-01DL	EFFLUENTDL	SAM	06/09/22 14:26		Iwona	OK
24	N3259-01DL	BI-WEEKLY-INFLUEN	SAM	06/09/22 14:26		Iwona	OK
25	N3261-01DL	BI-WEEKLY-DECANT	SAM	06/09/22 14:27		Iwona	OK
26	N3261-01DUP	BI-WEEKLY-DECANT	DUP	06/09/22 14:27		Iwona	OK
27	N3261-01MS	BI-WEEKLY-DECANT	MS	06/09/22 14:28		Iwona	OK
28	N3261-01MSD	BI-WEEKLY-DECANT	MSD	06/09/22 14:28		Iwona	OK
29	CCV3	CCV3	CCV	06/09/22 14:29		Iwona	OK
30	CCB3	CCB3	CCB	06/09/22 14:29		Iwona	OK



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Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB120604

Review By	Guerda	Review On	6/13/2022 2:07:14 PM
Supervise By	mohammad	Supervise On	6/13/2022 3:07:44 PM
SubDirectory	LB120604	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP97148,WP97149,WP97150,WP97151,WP97152,WP97153,WP97154		
ICV Standard	WP97184		
CCV Standard	WP97263		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP97264		
Chk Standard	WP97155,WP97156		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	06/06/22 10:26	All standards, samples, and	IZ/AP	OK
2	STD2	STD2	CAL2	06/06/22 10:56	QC are filtered through	IZ/AP	OK
3	STD3	STD3	CAL3	06/06/22 11:26	0.45um, filter lot W2865	IZ/AP	OK
4	STD4	STD4	CAL4	06/06/22 11:55		IZ/AP	OK
5	STD5	STD5	CAL5	06/06/22 12:25		IZ/AP	OK
6	STD6	STD6	CAL6	06/06/22 12:55		IZ/AP	OK
7	STD7	STD7	CAL7	06/06/22 13:24		IZ/AP	OK
8	ICV1	ICV1	ICV	06/06/22 13:54		IZ/AP	OK
9	ICB1	ICB1	ICB	06/06/22 14:25		IZ/AP	OK
10	CCV1	CCV1	CCV	06/09/22 09:39		IZ/AP	OK
11	CCB1	CCB1	CCB	06/09/22 10:10		IZ/AP	OK
12	LB120604BLW	LB120604BLW	MB	06/09/22 10:39		IZ/AP	OK
13	LB120604BSW	LB120604BSW	LCS	06/09/22 11:09		IZ/AP	OK
14	N3252-01	POOL-WATER	SAM	06/09/22 11:54		IZ/AP	OK
15	N3252-01MS	POOL-WATERMS	MS	06/09/22 12:24	9.5ml of sample, 0.5mL W2820	IZ/AP	OK
16	N3252-01MSD	POOL-WATERMSD	MSD	06/09/22 12:53	9.5ml of sample, 0.5mL W2820	IZ/AP	OK
17	N3259-01	BI-WEEKLY-INFLUEN	SAM	06/09/22 13:23	10x straight, CI high	IZ/AP	Dilution
18	N3259-01DL	BI-WEEKLY-INFLUEN	SAM	06/09/22 13:53	300x for CI	IZ/AP	Confirms
19	CCV2	CCV2	CCV	06/09/22 14:22		IZ/AP	OK
20	CCB2	CCB2	CCB	06/09/22 14:56		IZ/AP	OK



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Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB120604

Review By	Guerda	Review On	6/13/2022 2:07:14 PM
Supervise By	mohammad	Supervise On	6/13/2022 3:07:44 PM
SubDirectory	LB120604	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP97148,WP97149,WP97150,WP97151,WP97152,WP97153,WP97154
ICV Standard	WP97184
CCV Standard	WP97263
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP97264
Chk Standard	WP97155,WP97156

21	N3297-02	TI-633	SAM	06/09/22 17:20		IZ/AP	OK
22	CCV3	CCV3	CCV	06/09/22 17:50		IZ/AP	OK
23	CCB3	CCB3	CCB	06/09/22 18:20		IZ/AP	OK



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Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB120613

Review By	Iwona	Review On	6/10/2022 2:25:35 PM
Supervise By	jignesh	Supervise On	6/15/2022 12:22:10 PM
SubDirectory	LB120613	Test	COD
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP96871,WP96868,WP96866,WP96869,WP96867,WP96865,W2831,WP97294,WP97293,WP97295,WP97296		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/19/22 13:35		Iwona	OK
2	CAL2	CAL2	CAL	05/19/22 13:35		Iwona	OK
3	CAL3	CAL3	CAL	05/19/22 13:36		Iwona	OK
4	CAL4	CAL4	CAL	05/19/22 13:36		Iwona	OK
5	CAL5	CAL5	CAL	05/19/22 13:37		Iwona	OK
6	ICV	ICV	ICV	05/19/22 13:37		Iwona	OK
7	ICB	ICB	ICB	05/19/22 13:38		Iwona	OK
8	CCV1	CCV1	CCV	06/10/22 14:15		Iwona	OK
9	CCB1	CCB1	CCB	06/10/22 14:15		Iwona	OK
10	LB120613BL	LB120613BL	MB	06/10/22 14:16		Iwona	OK
11	LB120613BS	LB120613BS	LCS	06/10/22 14:16		Iwona	OK
12	N3214-09	MDL-WATER-03-QT2	SAM	06/10/22 14:17		Iwona	OK
13	N3259-01	BI-WEEKLY-INFLUEN	SAM	06/10/22 14:17		Iwona	OK
14	N3261-01	BI-WEEKLY-DECANT	SAM	06/10/22 14:18		Iwona	OK
15	N3263-01	DSN002	SAM	06/10/22 14:18		Iwona	OK
16	N3263-01DUP	DSN002	DUP	06/10/22 14:19		Iwona	OK
17	N3263-01MS	DSN002MS	MS	06/10/22 14:19		Iwona	OK
18	N3263-01MSD	DSN002MSD	MSD	06/10/22 14:20		Iwona	OK
19	N3263-03	DSN001	SAM	06/10/22 14:20		Iwona	OK
20	CCV2	CCV2	CCV	06/10/22 14:21		Iwona	OK



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Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB120613

Review By	Iwona	Review On	6/10/2022 2:25:35 PM				
Supervise By	jignesh	Supervise On	6/15/2022 12:22:10 PM				
SubDirectory	LB120613	Test	COD				
STD. NAME	STD REF.#						
ICAL Standard	N/A						
ICV Standard	N/A						
CCV Standard	N/A						
ICSA Standard	N/A						
CRI Standard	N/A						
LCS Standard	N/A						
Chk Standard	WP96871,WP96868,WP96866,WP96869,WP96867,WP96865,W2831,WP97294,WP97293,WP97295,WP97296						

21	CCB2	CCB2	CCB	06/10/22 14:21		Iwona	OK
22	N3263-05	RWS003	SAM	06/10/22 14:22		Iwona	OK
23	CCV3	CCV3	CCV	06/10/22 14:22		Iwona	OK
24	CCB3	CCB3	CCB	06/10/22 14:23		Iwona	OK

SHIPPING DOCUMENTS

Chemtech Project Number:

73259/60

COC Number:

[illegible]



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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2020021
Maryland	296
New Hampshire	255421
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-22-15