

IC-2
M300.0
4/30/2020
AM

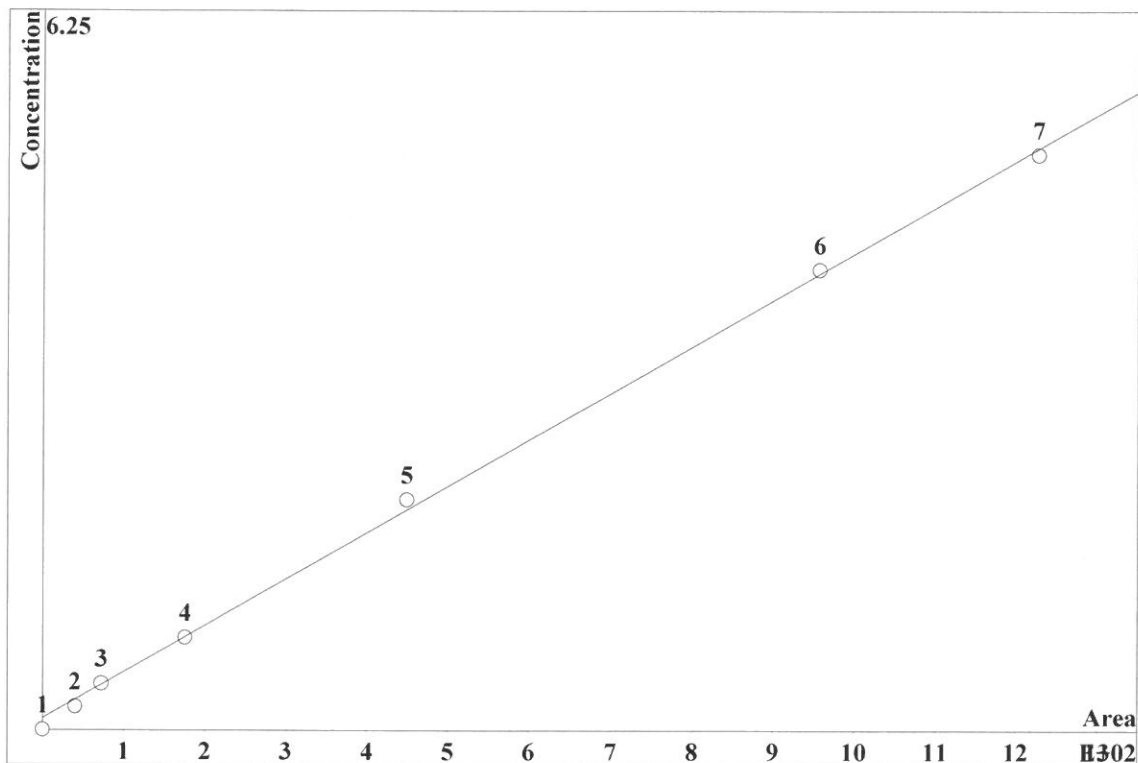
Clear table

ident	concentra tion F-	concentrati on 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	2020-04-21_	4/21/20 12:11		AM/AP
STD2	0.2640	0.3430	0.3820	1.1490	0.2900	0.5250	1.7760	2020-04-21_	4/21/20 12:44		AM/AP
STD3	0.3930	0.6150	0.6270	2.0360	0.5050	0.9720	3.1180	2020-04-21_	4/21/20 13:17		AM/AP
STD4	0.8090	1.1880	1.1740	3.9700	0.9970	1.9780	5.9120	2020-04-21_	4/21/20 13:47		AM/AP
STD5	1.9140	2.9190	2.8790	9.7330	2.4290	5.0120	14.4990	2020-04-21_	4/21/20 14:18		AM/AP
STD6	3.9660	6.0210	5.9730	20.0650	5.0170	10.0660	30.0570	2020-04-21_	4/21/20 14:48		AM/AP
STD7	5.0550	7.5130	7.5660	25.0460	6.2620	12.4460	37.6380	2020-04-21_	4/21/20 15:19		AM/AP
ICV	1.9280	2.9240	2.8700	9.7490	2.4430	5.0680	14.4950	2020-04-21_	4/21/20 15:52		AM/AP
ICB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2020-04-21_	4/21/20 16:23		AM/AP
CCV	1.8710	2.7830	3.1480	9.3760	2.3210	4.9820	13.8950	2020-04-23_	4/23/20 16:04		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2020-04-23_	4/23/20 16:36		AM/AP
LB108852BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2020-04-23_	4/23/20 17:07		AM/AP
LB108852BSW	1.8630	2.7950	3.1610	9.4320	2.3300	4.9160	13.9690	2020-04-23_	4/23/20 17:39		AM/AP
L2182-09	0.1580	0.1990	0.2190	0.6860	0.1680	0.3150	1.0950	2020-04-23_	4/23/20 18:11		AM/AP
CCV	1.8940	2.8050	3.1890	9.4180	2.3210	4.9990	13.9430	2020-04-23_	4/23/20 18:42		AM/AP
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2020-04-23_	4/23/20 19:14		AM/AP

CALIBRATION OF COMPONENT F-

Method: AnionsIC2-042120.mtw
 Equation: $Q = 0.0808174 \cdot A + 2.02171$
 RSD: 3.052 %
 Correlation coefficient: 0.999606

IC-2
 M300.0
 4/22/2020
 AM

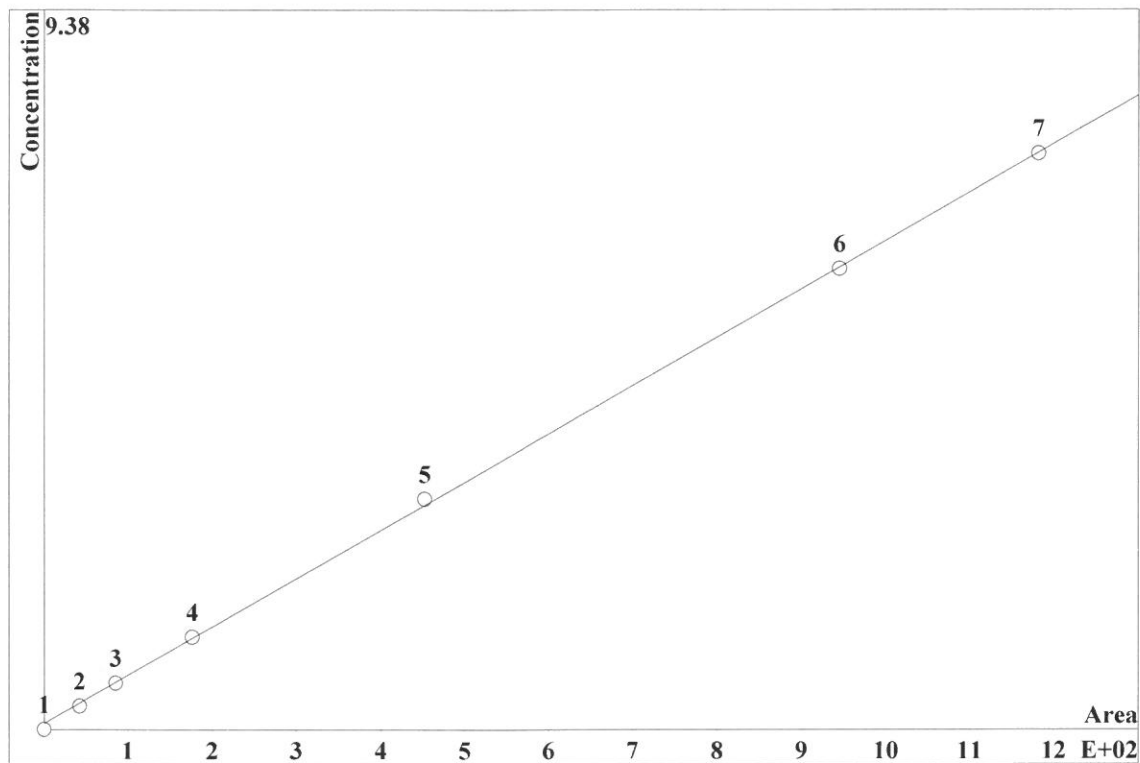


K3 = 0 K2 = 0 K1 = 0.0808174 K0 = 2.02171
 Base: Area
 Ref.channel: ch1
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		
2	0.9378	40.25	0.2	20	5.75		
3	1.892	72.23	0.4	20	5.75		
4	4.566	175.1	0.8	20	5.75		
5	12.24	448.5	2	20	5.75		
6	27.48	956.4	4	20	5.75		
7	35.54	1226	5	20	5.75		

CALIBRATION OF COMPONENT CL-

Method: AnionsIC2-042120.mtw
 Equation: $Q = 0.125849 \cdot A + 1.52293$
 RSD: 1.559 %
 Correlation coefficient: 0.999897

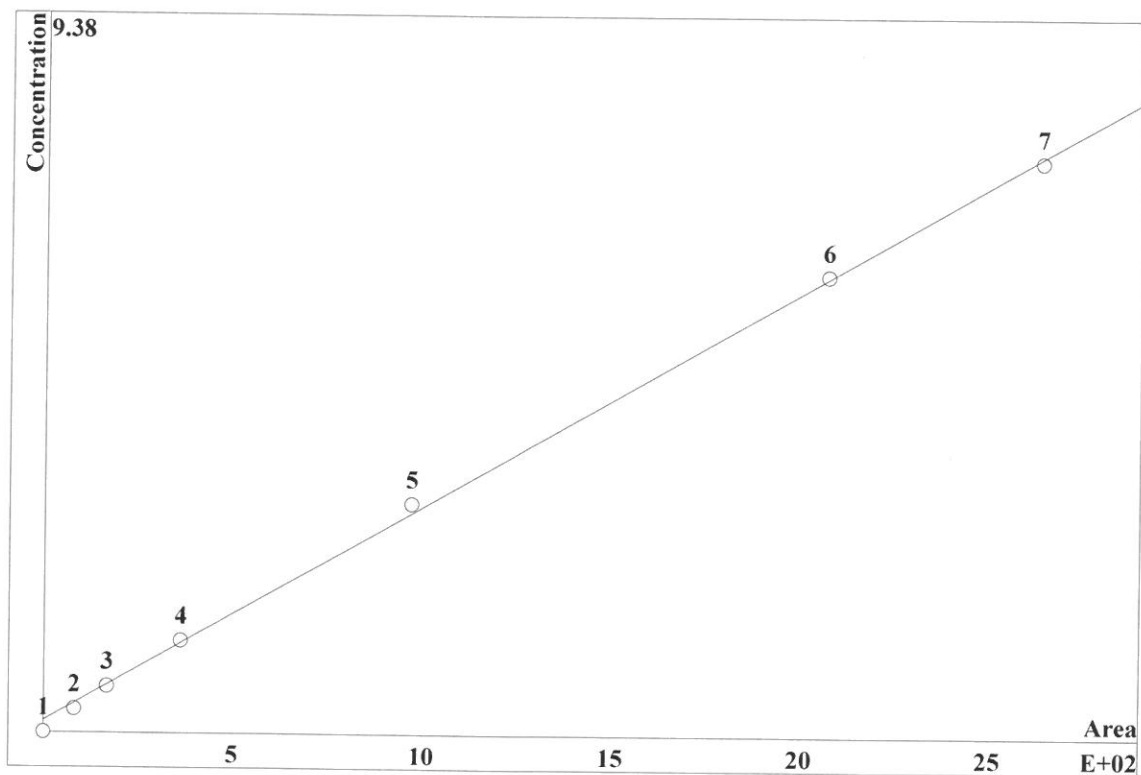


K3 = 0 K2 = 0 K1 = 0.125849 K0 = 1.52293
 Base: Area
 Ref.channel: ch1
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0		0	0			0
2	2.265	42.46		0.3	20		8.834
3	4.597	85.58		0.6	20		8.834
4	9.394	176.8		1.2	20		8.834
5	24.11	451.9		3	20		8.834
6	51.33	944.8		6	20		8.834
7	64.04	1182		7.5	20		8.834

CALIBRATION OF COMPONENT NO2

Method: AnionsIC2-042120.mtw
 Equation: $Q = 0.056277 \cdot A + 3.06996$
 RSD: 2.699 %
 Correlation coefficient: 0.999692

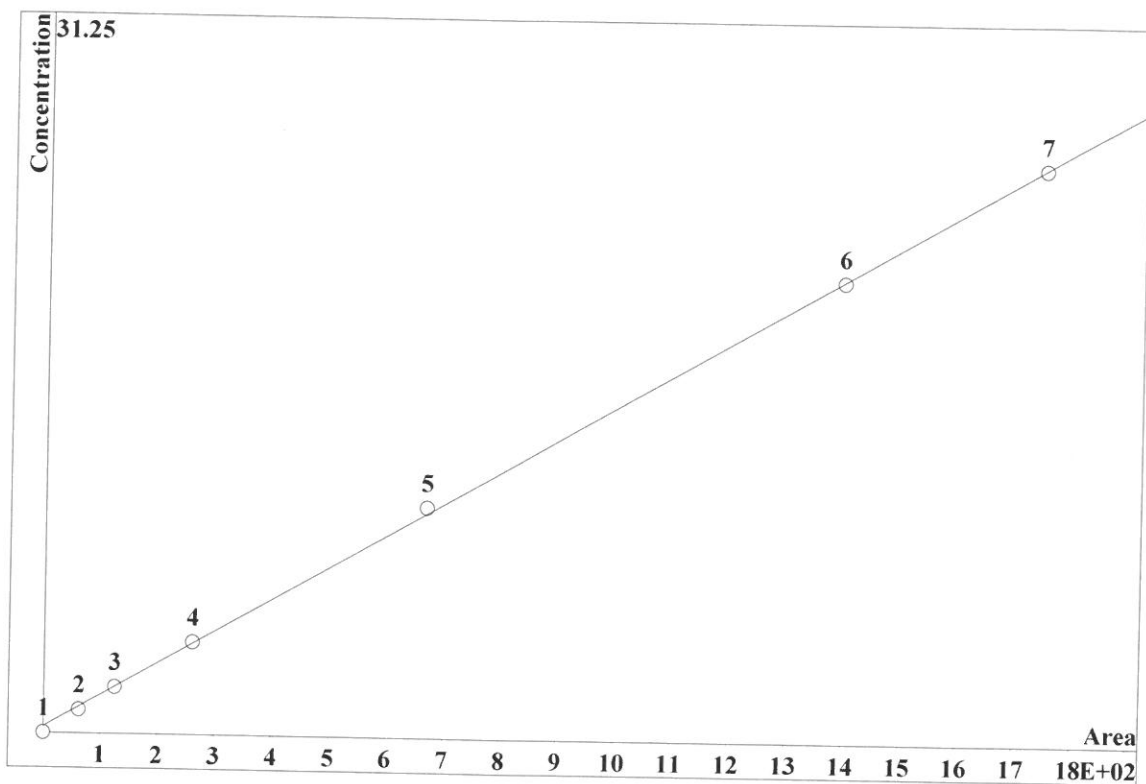


K3 = 0 K2 = 0 K1 = 0.056277 K0 = 3.06996
 Base: Area
 Ref.channel: ch1
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1		0	0	0	0		
2	3.535	81.32	0.3	20	10.73		
3	7.093	168.4	0.6	20	10.73		
4	14.85	362.6	1.2	20	10.73		
5	37.43	968.4	3	20	10.73		
6	75.59	2068	6	20	10.73		
7	93.79	2634	7.5	20	10.73		

CALIBRATION OF COMPONENT BR-

Method: AnionsIC2-042120.mtw
 Equation: $Q = 0.283724 \cdot A + 5.37926$
 RSD: 1.545 %
 Correlation coefficient: 0.999899



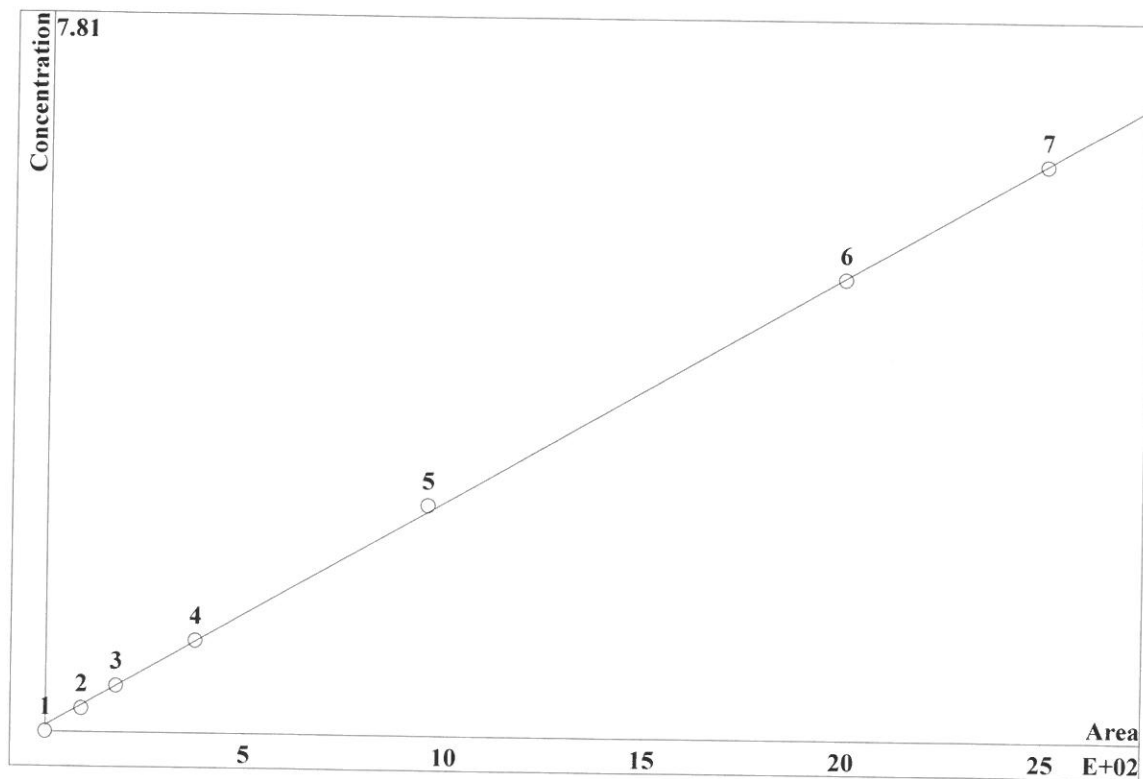
K3 = 0 K2 = 0 K1 = 0.283724 K0 = 5.37926
 Base: Area
 Ref.channel: ch1
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		0
2	2.186	62.02	1	20			14
3	4.422	124.6	2	20			14
4	9.206	260.9	4	20			14
5	23.84	667.1	10	20			14
6	51.08	1395	20	20			14
7	64.08	1747	25	20			14

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CALIBRATION OF COMPONENT NO3

Method: AnionsIC2-042120.mtw
 Equation: $Q = 0.0495992 \cdot A + 1.30724$
 RSD: 1.624 %
 Correlation coefficient: 0.999889

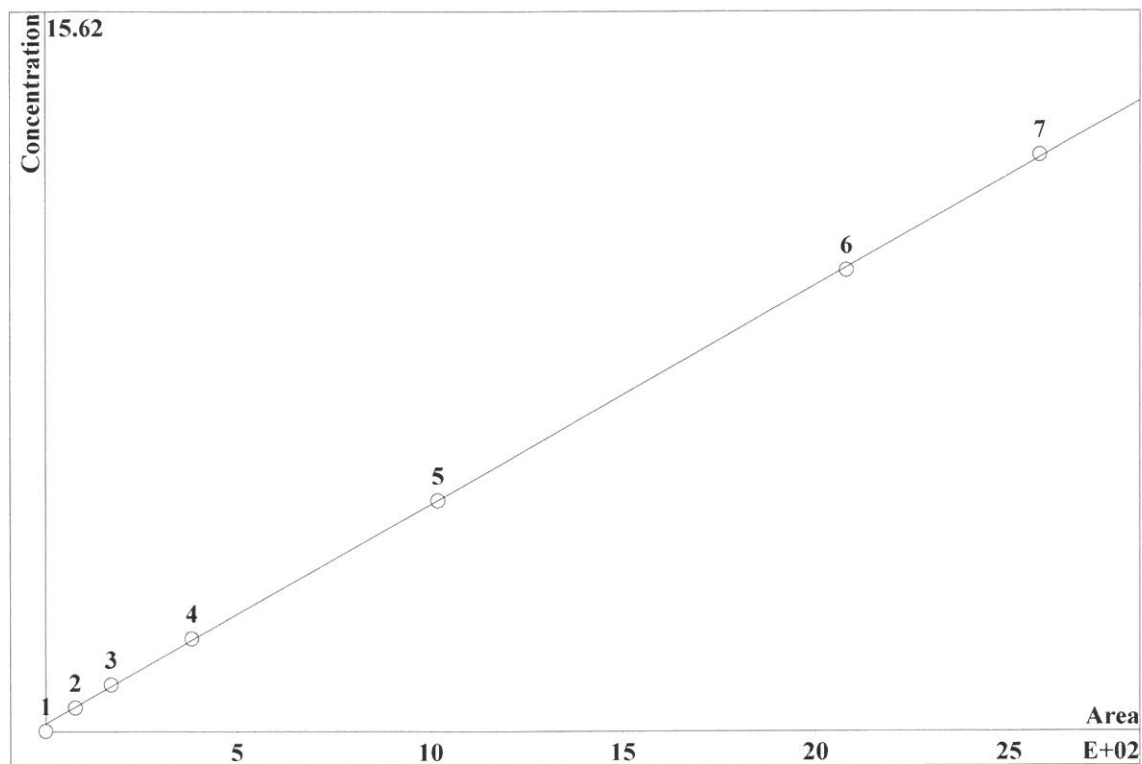


K3 = 0 K2 = 0 K1 = 0.0495992 K0 = 1.30724
 Base: Area
 Ref.channel: ch1
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used File
1	0	0	0	0	0	0
2	2.585	90.54	0.25	20	16.26	
3	5.234	177.3	0.5	20	16.26	
4	10.78	375.5	1	20	16.26	
5	27.09	953.3	2.5	20	16.26	
6	56.19	1997	5	20	16.26	
7	69.3	2499	6.25	20	16.26	

CALIBRATION OF COMPONENT HPO4

Method: AnionsIC2-042120.mtw
 Equation: $Q = 0.0952609 \cdot A + 3.17883$
 RSD: 0.935 %
 Correlation coefficient: 0.999963

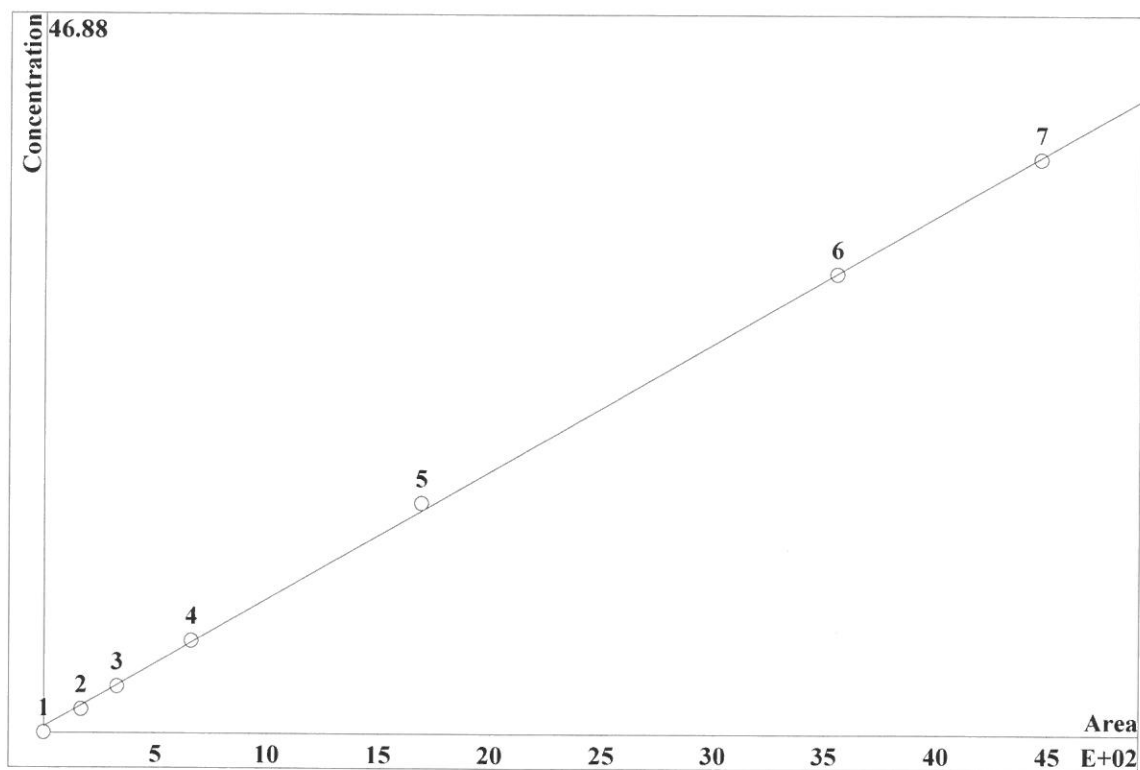


K3 = 0 K2 = 0 K1 = 0.0952609 K0 = 3.17883
 Base: Area
 Ref.channel: ch1
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		0
2	1.682	76.89	0.5	20	21.2		
3	3.689	170.8	1	20	21.2		
4	8.063	381.9	2	20	21.2		
5	21.59	1019	5	20	21.2		
6	45.69	2080	10	20	21.2		
7	56.7	2580	12.5	20	21.2		

CALIBRATION OF COMPONENT SO4

Method: AnionsIC2-042120.mtw
 Equation: $Q = 0.167029 \cdot A + 7.87332$
 RSD: 1.965 %
 Correlation coefficient: 0.999837



K3 = 0 K2 = 0 K1 = 0.167029 K0 = 7.87332
 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	3.903	165.5	1.5	20	24.57		
3	7.715	326.2	3	20	24.57		
4	15.73	660.7	6	20	24.57		
5	40.59	1689	15	20	24.57		
6	86.75	3552	30	20	24.57		
7	108.7	4460	37.5	20	24.57		

Report date: 4/22/2020 9:12:26 AM
Printed by: wet

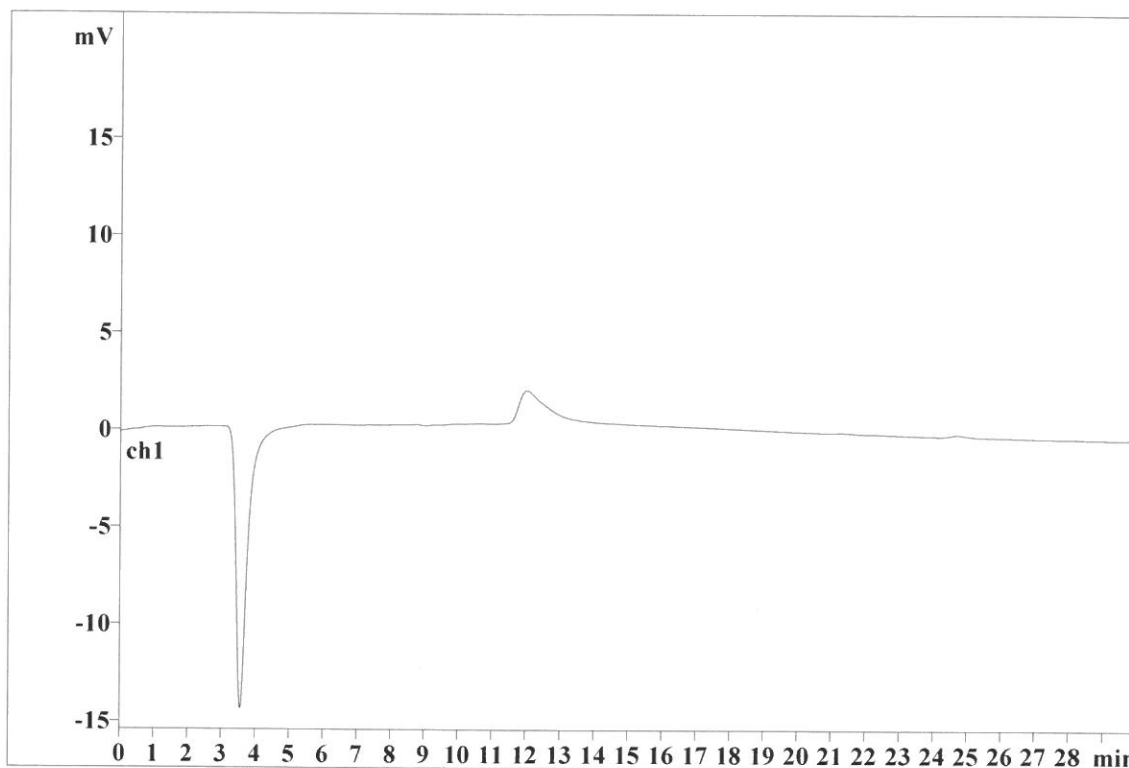
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File: _2020-04-21_

Last save: 4/22/2020 9:12:20 AM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25075

Last save: 4/21/2020 2:26:

SAMPLE:
: AM/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: 4/22/2020 9:12:36 AM
Printed by: wet

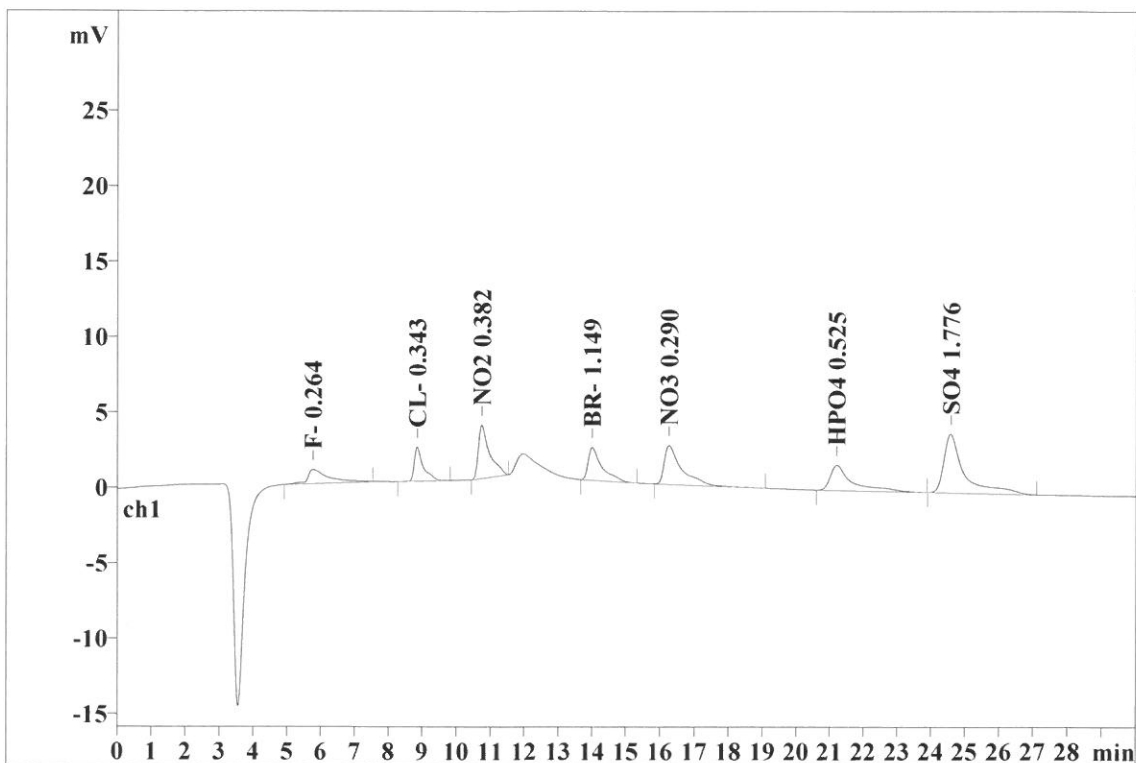
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Analysis from: 4/21/2020 12:44:23 PM
File: _2020-04-21_

Last save: 4/22/2020 9:12:20 AM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25076

Last save: 4/21/2020 2:26:

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 mV	Height %	Area mV*sec	Area %
1	5.75	0.523	0.94	5.47	40.248	7.20
2	8.83	0.239	2.27	13.25	42.460	7.60
3	10.73	0.306	3.53	20.68	81.319	14.55
4	14.00	0.366	2.18	12.78	62.020	11.10
5	16.26	0.438	2.58	15.12	90.544	16.20
6	21.20	0.511	1.68	9.82	76.895	13.76
7	24.57	0.493	3.90	22.83	165.485	29.61
7	30.00	0.411	17.09	99.95	558.971	100.00

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Report date: 4/22/2020 9:12:44 AM
Printed by: wet

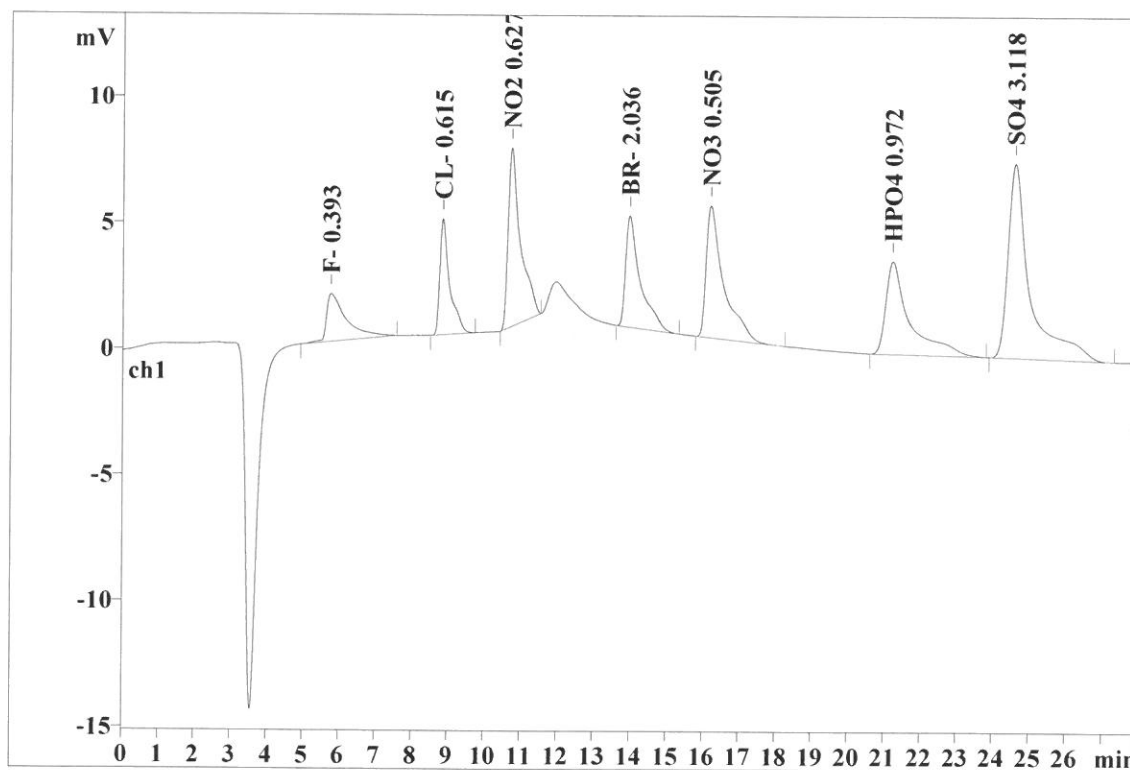
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Analysis from: 4/21/2020 1:17:01 PM
File: _2020-04-21_

Last save: 4/22/2020 9:12:20 AM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25077

Last save: 4/21/2020 2:26:

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 mV	Height %	Area mV*sec	Area %
1	5.74	0.492	1.89	5.45	72.228	6.42
2	8.82	0.240	4.59	13.26	85.575	7.61
3	10.71	0.311	7.09	20.47	168.373	14.97
4	13.95	0.361	4.42	12.76	124.583	11.07
5	16.18	0.432	5.23	15.11	177.298	15.76
6	21.20	0.519	3.69	10.65	170.770	15.18
7	24.58	0.490	7.72	22.27	326.212	29.00
7	28.00	0.407	34.64	99.98	1125.039	100.00

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Report date: 4/22/2020 9:12:51 AM
Printed by: wet

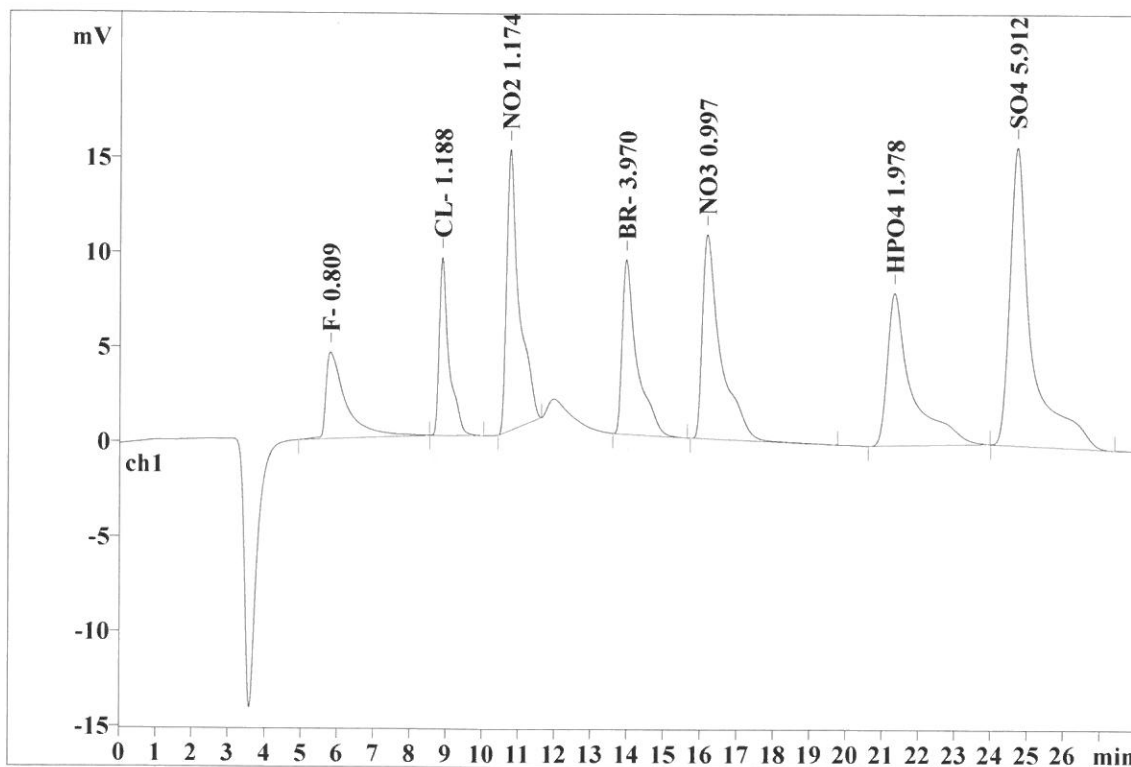
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Analysis from: 4/21/2020 1:47:39 PM
File: _2020-04-21_

Last save: 4/22/2020 9:12:20 AM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25078

Last save: 4/21/2020 2:26:

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 mV	Height %	Area mV*sec	Area %
1	5.78	0.481	4.56	6.29	175.093	7.32
2	8.85	0.241	9.39	12.94	176.758	7.39
3	10.72	0.312	14.85	20.46	362.595	15.15
4	13.94	0.360	9.21	12.68	260.890	10.90
5	16.15	0.440	10.78	14.85	375.505	15.69
6	21.30	0.528	8.06	11.11	381.883	15.96
7	24.67	0.488	15.72	21.66	660.722	27.61
7	28.00	0.407	72.58	99.99	2393.446	100.00

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Report date: 4/22/2020 9:12:58 AM
Printed by: wet

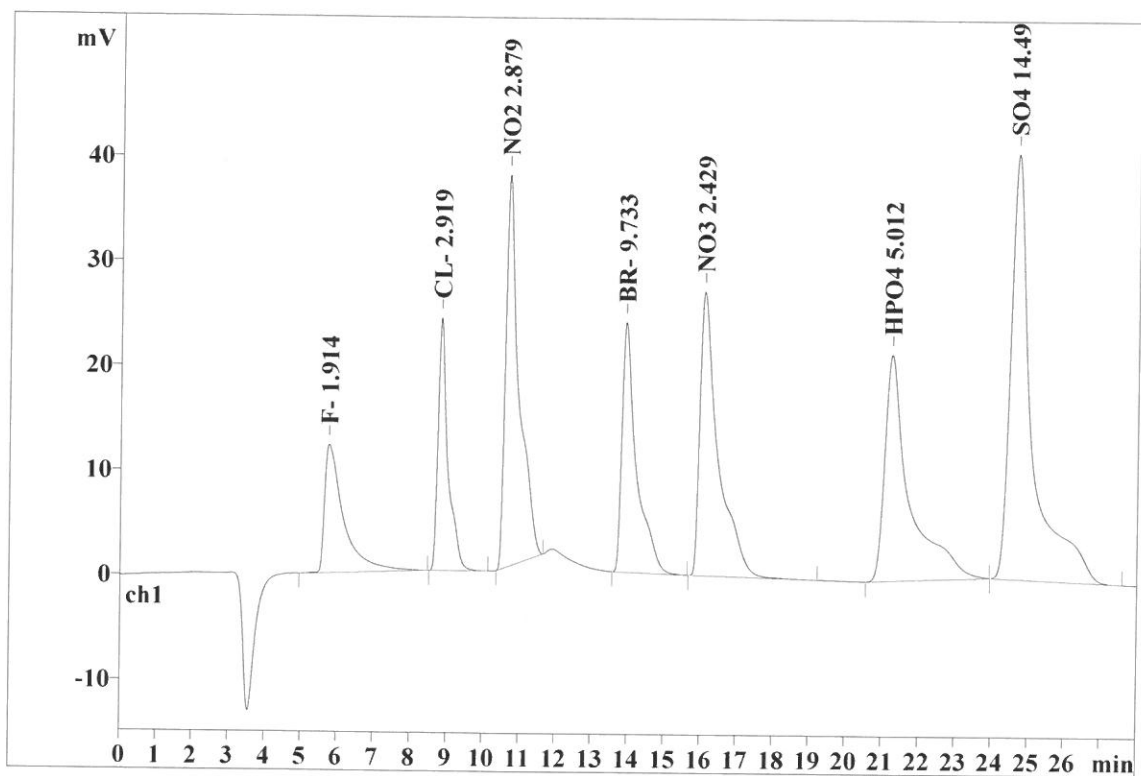
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File: _2020-04-21_

Last save: 4/22/2020 9:12:20 AM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25079

Last save: 4/21/2020 2:26:

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 mV	Height %	Area mV*sec	Area %
1	5.76	0.473	12.23	6.55	448.522	7.24
2	8.81	0.240	24.11	12.90	451.858	7.29
3	10.66	0.331	37.42	20.02	968.438	15.63
4	13.91	0.356	23.84	12.76	667.148	10.77
5	16.07	0.451	27.09	14.50	953.270	15.38
6	21.24	0.524	21.59	11.55	1018.957	16.44
7	24.66	0.483	40.59	21.72	1688.984	27.25
7	28.00	0.408	186.88	100.00	6197.176	100.00

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Report date: 4/22/2020 9:13:06 AM
Printed by: wet

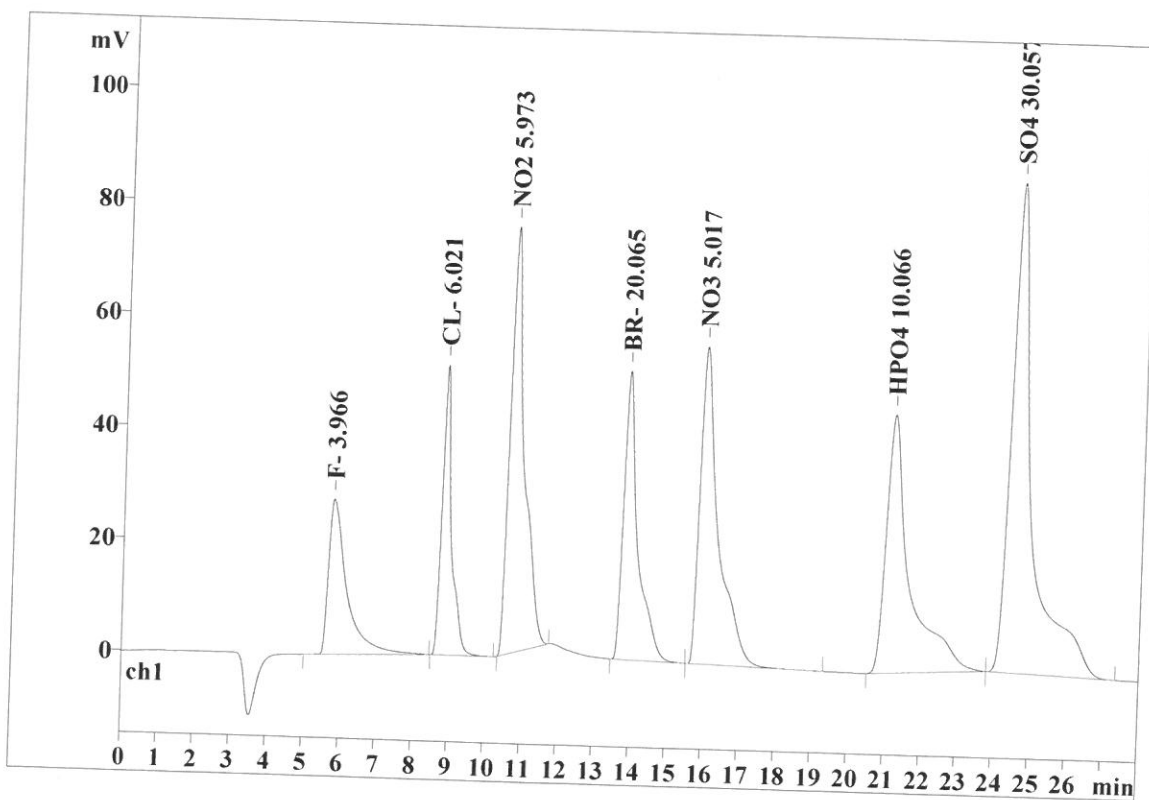
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Analysis from: 4/21/2020 2:48:56 PM
File: _2020-04-21_

Last save: 4/21/2020 3:49:40 PM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25080

Last save: 4/21/2020 2:26:

SAMPLE:
:
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	5.75	0.456	27.48	6.97	956.402	7.36
2	8.80	0.235	51.33	13.02	944.827	7.27
3	10.63	0.357	75.58	19.18	2068.005	15.92
4	13.82	0.345	51.07	12.96	1395.465	10.74
5	15.93	0.458	56.19	14.26	1996.590	15.37
6	21.14	0.511	45.69	11.59	2080.031	16.01
7	24.53	0.478	86.75	22.01	3551.905	27.34
7	28.00	0.406	394.09	100.00	12993.225	100.00

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Report date: 4/22/2020 9:13:13 AM
Printed by: wet

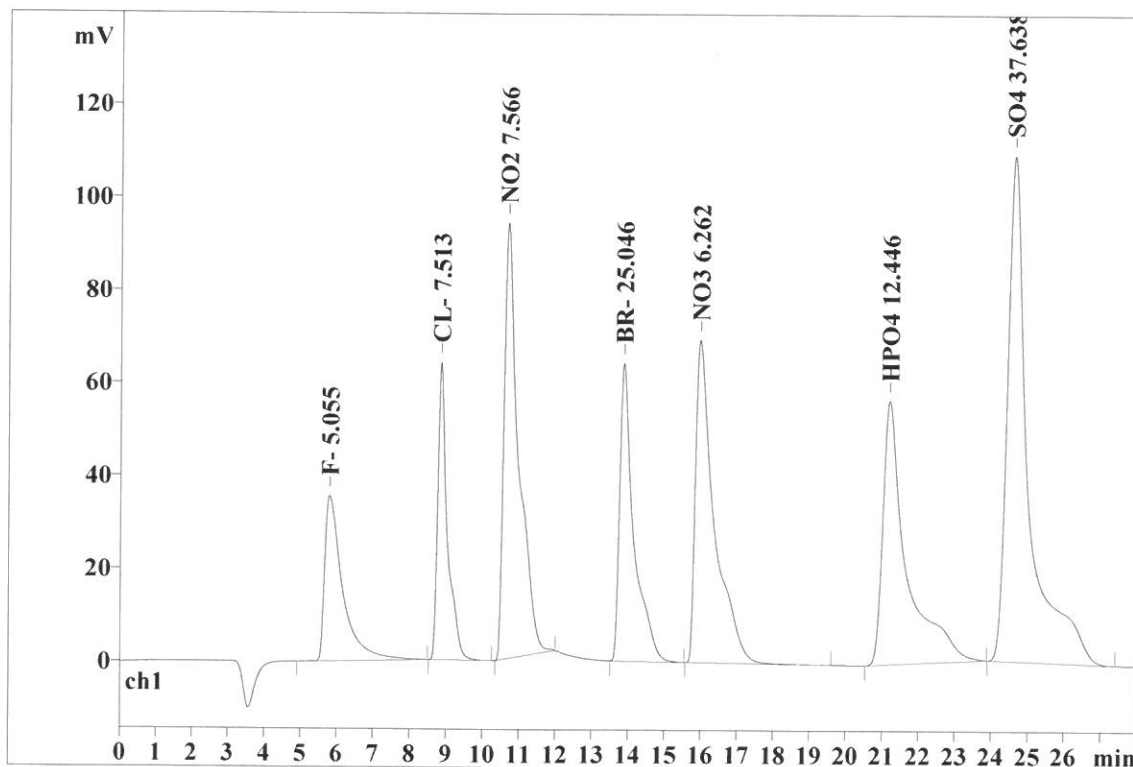
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Analysis from: 4/21/2020 3:19:34 PM
File: _2020-04-21_

Last save: 4/21/2020 3:49:40 PM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25081

Last save: 4/21/2020 2:26:

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 mV	Height %	Area mV*sec	Area %
1	5.78	0.461	35.54	7.22	1226.058	7.51
2	8.82	0.236	64.04	13.01	1181.834	7.24
3	10.65	0.366	93.79	19.06	2634.122	16.13
4	13.85	0.344	64.08	13.02	1746.583	10.70
5	15.95	0.466	69.30	14.08	2498.760	15.30
6	21.18	0.512	56.70	11.52	2579.689	15.80
7	24.58	0.480	108.71	22.09	4459.685	27.32
7	28.00	0.409	492.16	100.00	16326.731	100.00

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METROHM LTD

Report date: 4/22/2020 9:13:21 AM
Printed by: wet

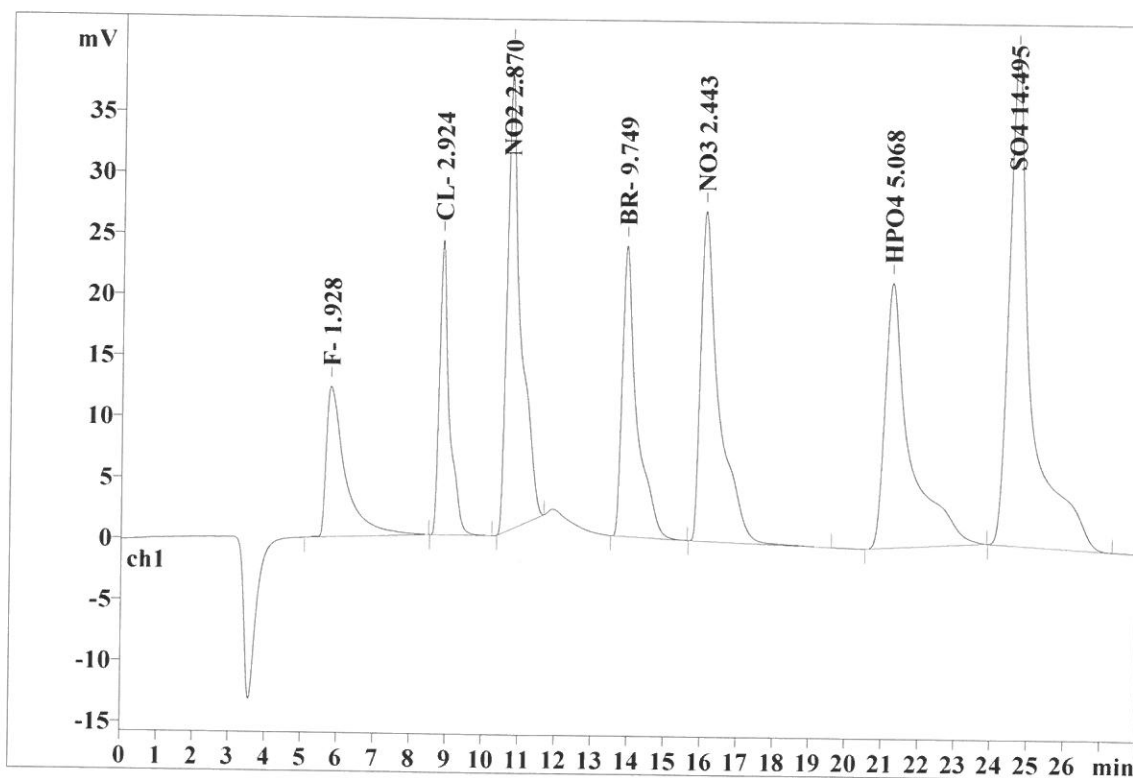
Ident: ICV
Analysis from: 4/21/2020 3:52:33 PM
File: _2020-04-21_

Last save: 4/21/2020 4:20:33 PM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25082

Last save: 4/21/2020 3:48:

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 mV	Height %	Area mV*sec	Area %
1	5.76	0.472	12.32	6.60	452.194	7.27
2	8.82	0.241	24.13	12.93	452.636	7.28
3	10.67	0.331	37.31	20.00	965.404	15.53
4	13.87	0.358	23.81	12.76	668.264	10.75
5	16.03	0.455	27.02	14.48	958.757	15.42
6	21.20	0.530	21.70	11.63	1030.594	16.58
7	24.58	0.486	40.29	21.60	1688.495	27.16
7	28.00	0.411	186.58	100.00	6216.343	100.00

This report has been created by IC Net
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Report date: 4/22/2020 9:13:30 AM
Printed by: wet

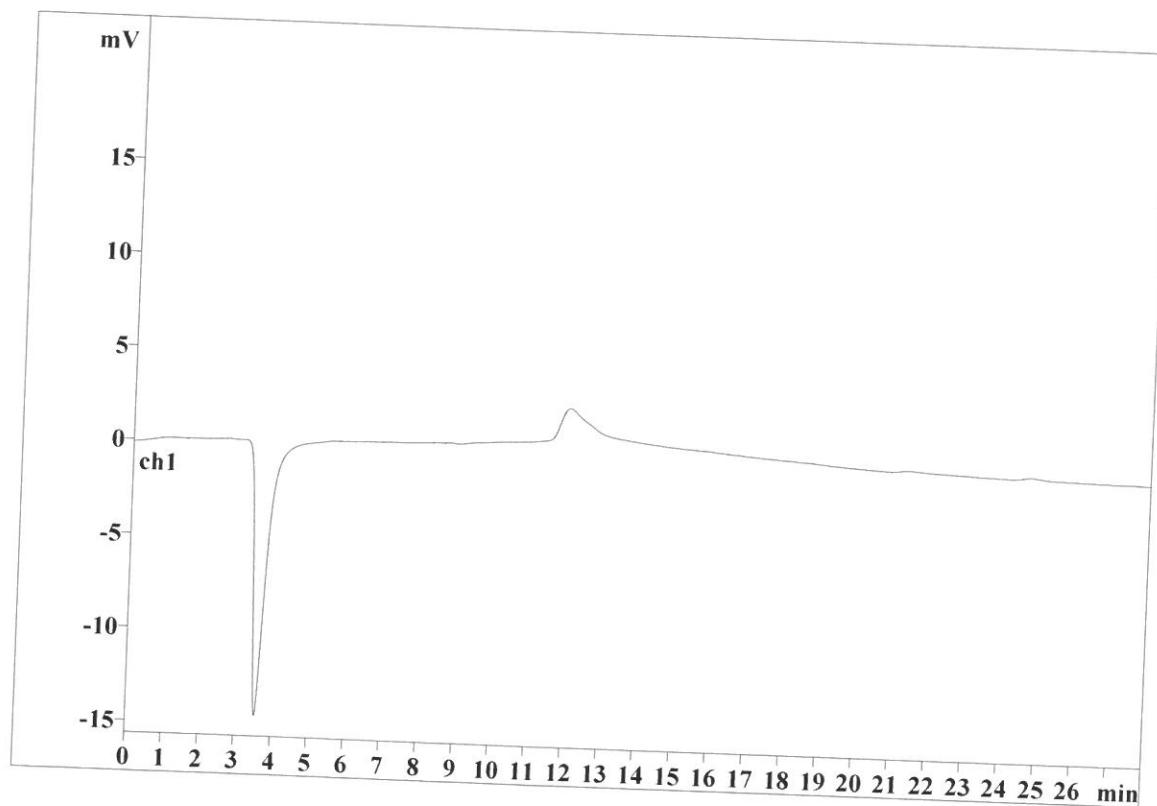
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File: _2020-04-21_

Last save: 4/21/2020 4:58:13 PM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25083

Last save: 4/21/2020 3:48:

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



Quantitation method: Custom

No peaks

This report has been created by IC Net
METROHM LTD

Report date: 4/30/2020 3:16:55 PM
Printed by: wet

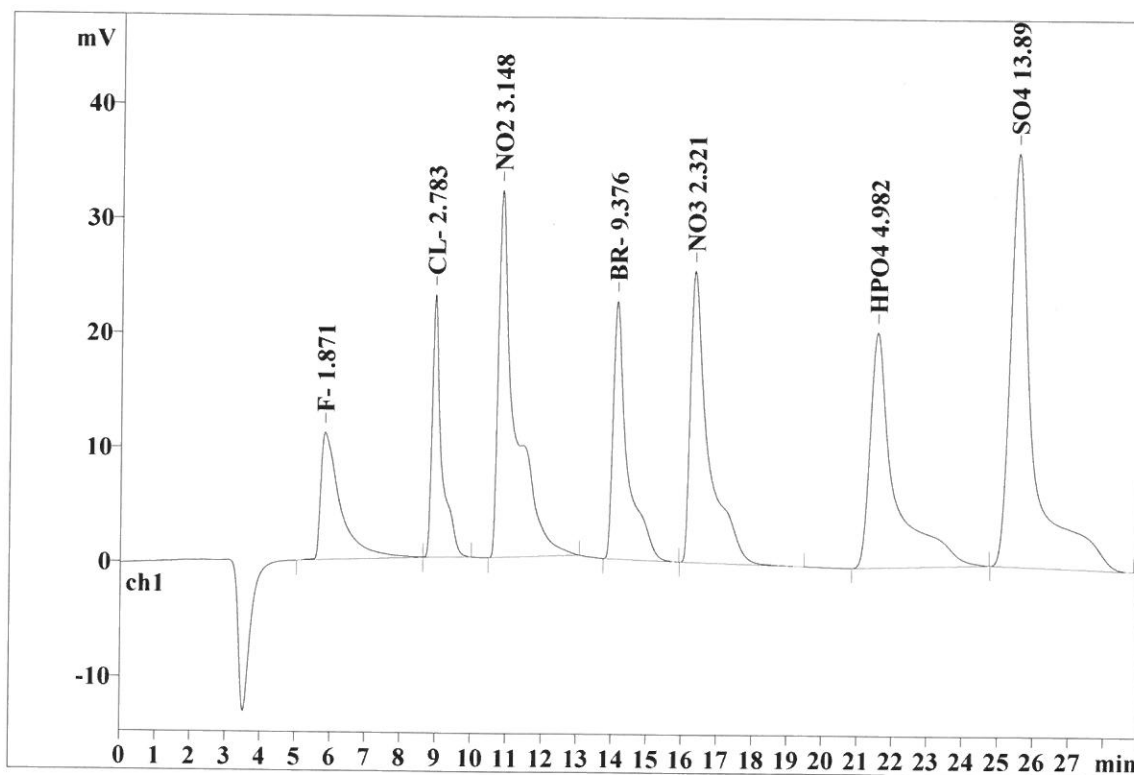
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Last save: 4/24/2020 8:52:52 AM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25136

Last save: 4/23/2020 11:20

SAMPLE:
: AM/AP
Vial number: 2
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	5.82	0.516	11.11	6.51	437.905	7.16
2	8.93	0.225	22.93	13.44	430.224	7.04
3	10.81	0.326	32.03	18.78	1064.369	17.41
4	14.10	0.336	22.50	13.19	641.953	10.50
5	16.32	0.425	25.41	14.90	909.705	14.88
6	21.53	0.524	20.51	12.02	1012.506	16.56
7	25.50	0.513	36.08	21.15	1616.700	26.45
7	29.00	0.409	170.56	100.00	6113.363	100.00

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Report date: 4/30/2020 3:17:03 PM
Printed by: wet

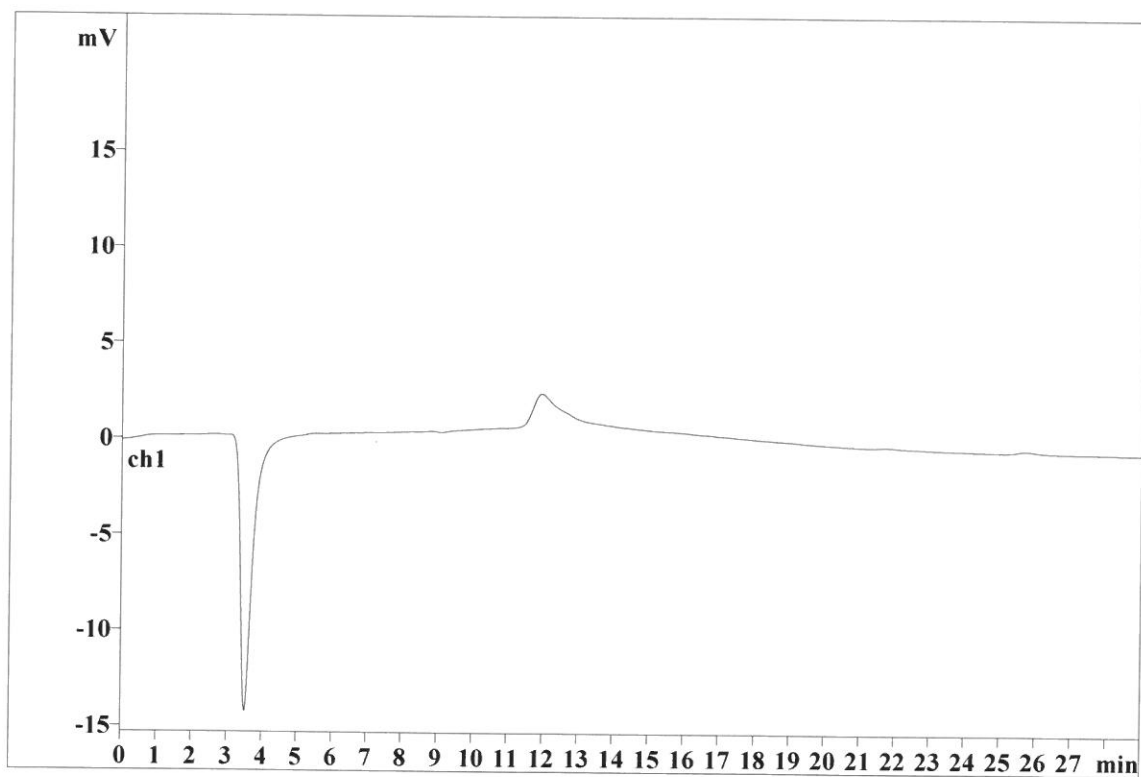
Ident: CCB
Analysis from: 4/23/2020 4:36:16 PM
File: _2020-04-23_

Last save: 4/30/2020 3:12:25 PM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25137

Last save: 4/23/2020 11:20

SAMPLE:
: AM/AP
Vial number: 3
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: 4/30/2020 3:17:29 PM
Printed by: wet

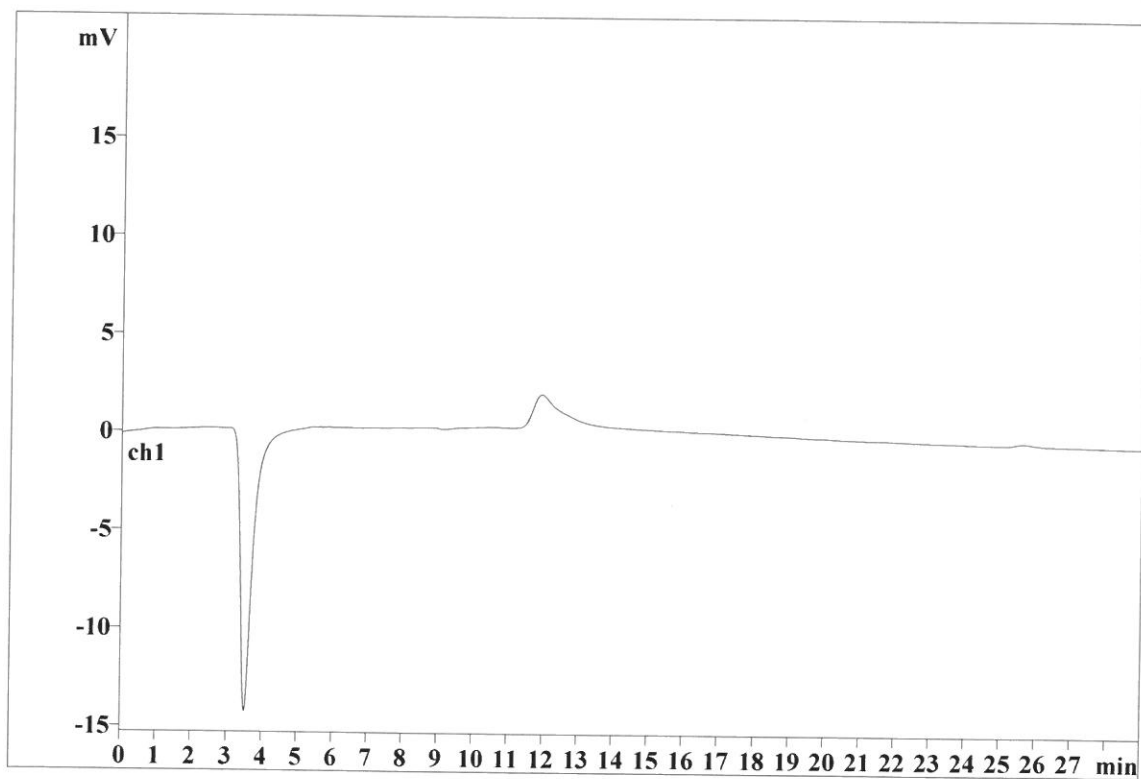
Ident: LB108852BLW
Analysis from: 4/23/2020 5:07:53 PM
File: _2020-04-23_

Last save: 4/30/2020 3:17:26 PM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25138

Last save: 4/23/2020 11:20

SAMPLE:
: AM/AP
Vial number: 4
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: 4/30/2020 3:17:37 PM
Printed by: wet

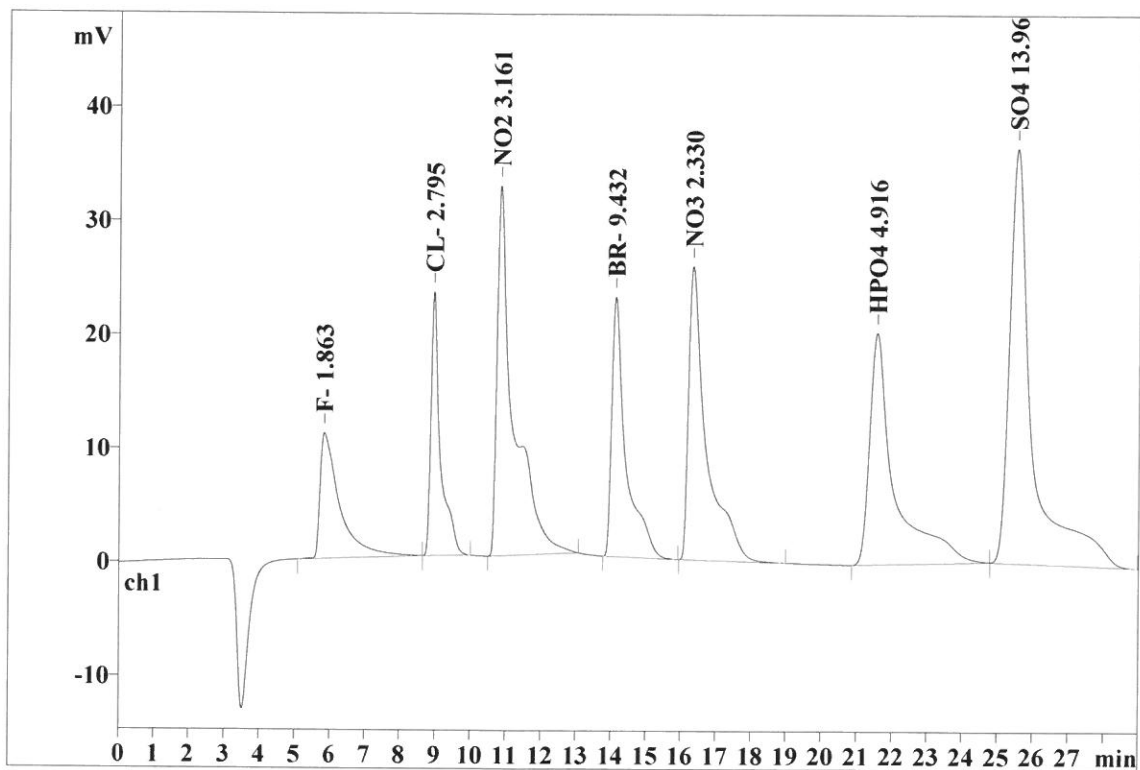
Ident: LB108852BSW
Analysis from: 4/23/2020 5:39:31 PM
File: _2020-04-23_

Last save: 4/24/2020 8:52:52 AM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25139

Last save: 4/23/2020 11:20

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 mV	Height %	Area mV*sec	Area %
1	5.82	0.520	11.02	6.41	436.025	7.12
2	8.94	0.223	23.17	13.46	432.108	7.06
3	10.81	0.323	32.50	18.89	1068.898	17.46
4	14.10	0.332	22.81	13.26	645.928	10.55
5	16.32	0.419	25.76	14.97	913.344	14.92
6	21.55	0.522	20.36	11.83	998.791	16.32
7	25.53	0.512	36.46	21.18	1625.462	26.56
7	29.00	0.407	172.08	100.00	6120.555	100.00

This report has been created by IC Net
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Report date: 4/30/2020 3:17:44 PM
Printed by: wet

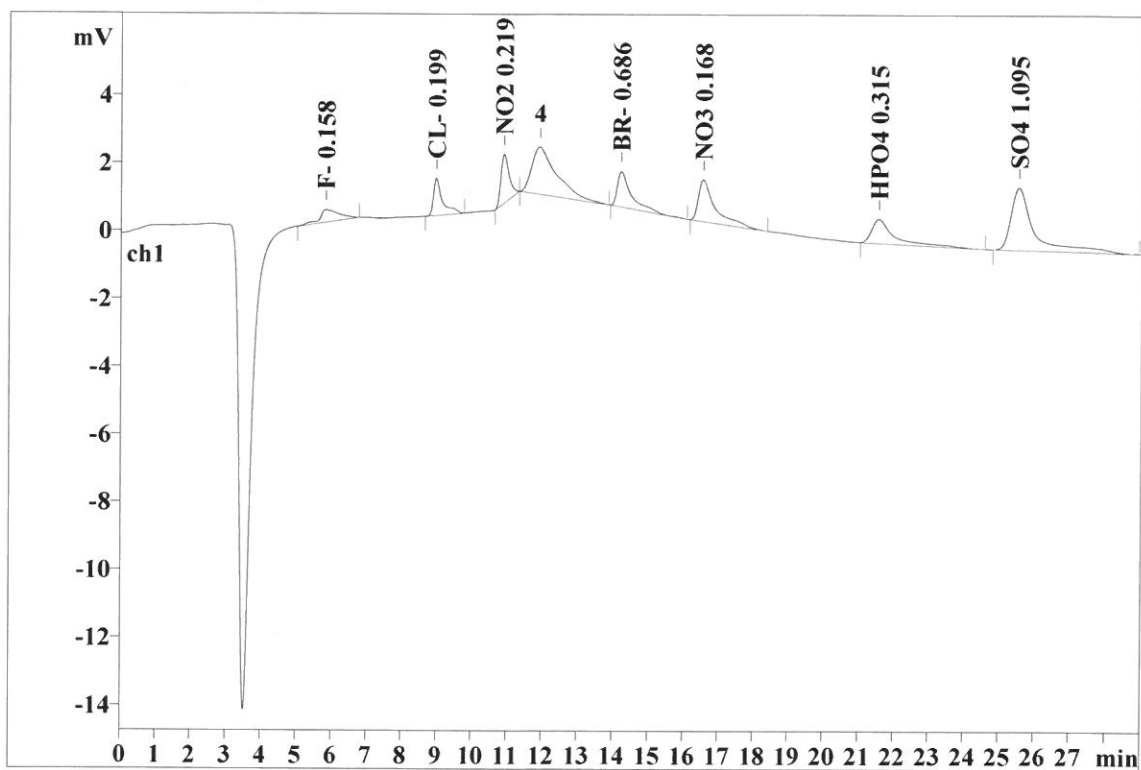
Ident: L2182-09
Analysis from: 4/23/2020 6:11:09 PM
File: _2020-04-23_

Last save: 4/23/2020 6:40:09 PM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25140

Last save: 4/23/2020 11:20

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 mV	Height %	Area mV*sec	Area %
1	5.80	0.533	0.37	4.03	14.038	4.48
2	8.95	0.215	1.10	11.98	19.577	6.25
3	10.88	0.244	1.44	15.72	23.284	7.43
4	14.21	0.342	1.05	11.46	29.378	9.38
5	16.53	0.404	1.23	13.47	41.320	13.19
6	21.56	0.518	0.72	7.82	32.736	10.45
7	25.55	0.530	1.84	20.12	84.017	26.82
7	29.00	0.398	7.75	84.59	244.351	77.99

This report has been created by IC Net
METROHM LTD

Report date: 4/30/2020 3:17:58 PM
Printed by: wet

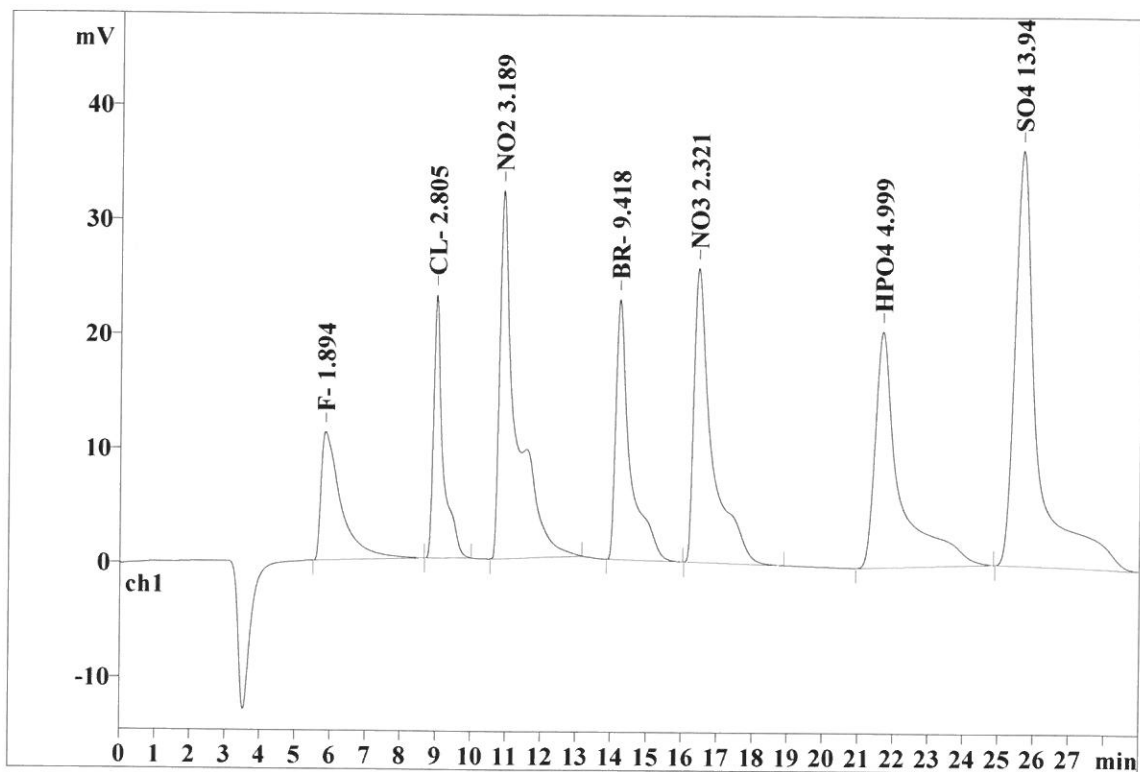
Ident: CCV
Analysis from: 4/23/2020 6:42:49 PM
File: _2020-04-23_

Last save: 4/24/2020 8:52:53 AM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25141

Last save: 4/23/2020 11:20

SAMPLE:
: AM/AP
Vial number: 2
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	5.84	0.529	11.22	6.53	443.736	7.22
2	8.97	0.226	23.01	13.40	433.662	7.05
3	10.86	0.326	32.16	18.73	1078.658	17.54
4	14.21	0.332	22.73	13.24	644.916	10.49
5	16.43	0.419	25.68	14.95	909.500	14.79
6	21.66	0.525	20.62	12.01	1016.235	16.53
7	25.64	0.514	36.31	21.14	1622.367	26.38
7	29.00	0.410	171.71	100.00	6149.074	100.00

This report has been created by IC Net
METROHM LTD

Report date: 4/30/2020 3:18:18 PM
Printed by: wet

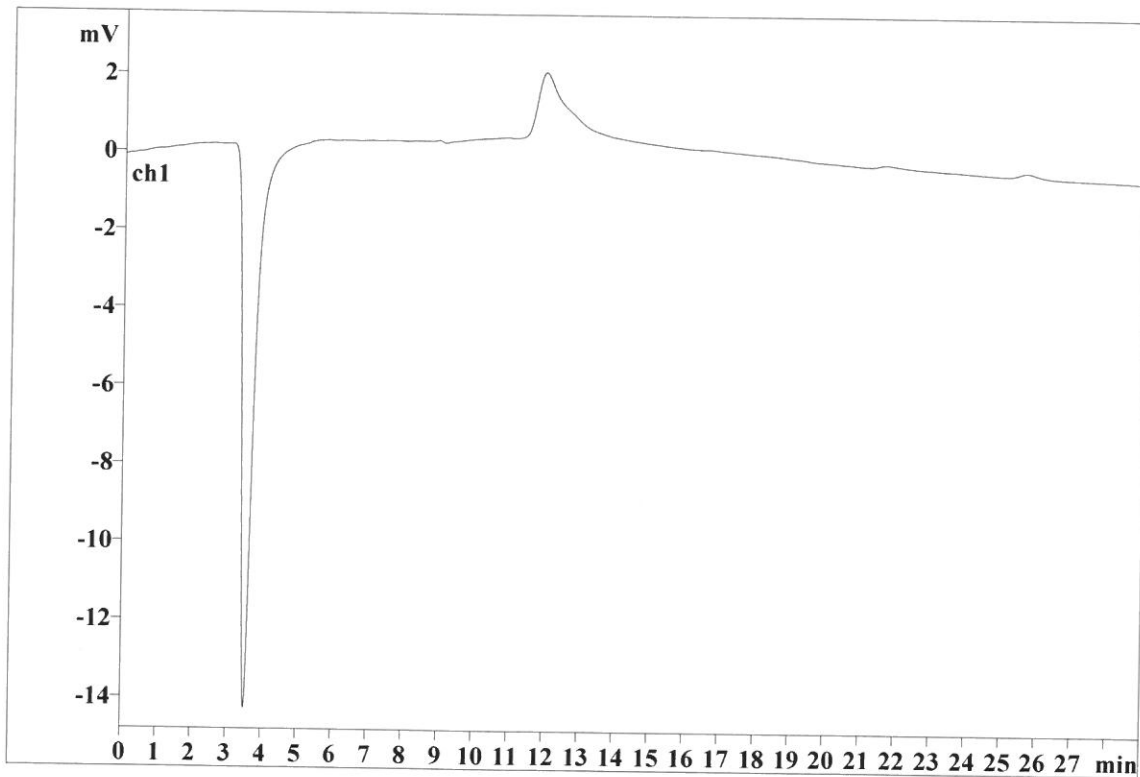
Ident: CCB
Analysis from: 4/23/2020 7:14:27 PM
File: _2020-04-23_

Last save: 4/30/2020 3:18:17 PM

Method: AnionsIC2-042120.mtw
Run operator: wet
Analysis number: 25142

Last save: 4/23/2020 11:20

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



Quantitation method: Custom

No peaks

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