

JCL / 300-0

9/21/17 AK

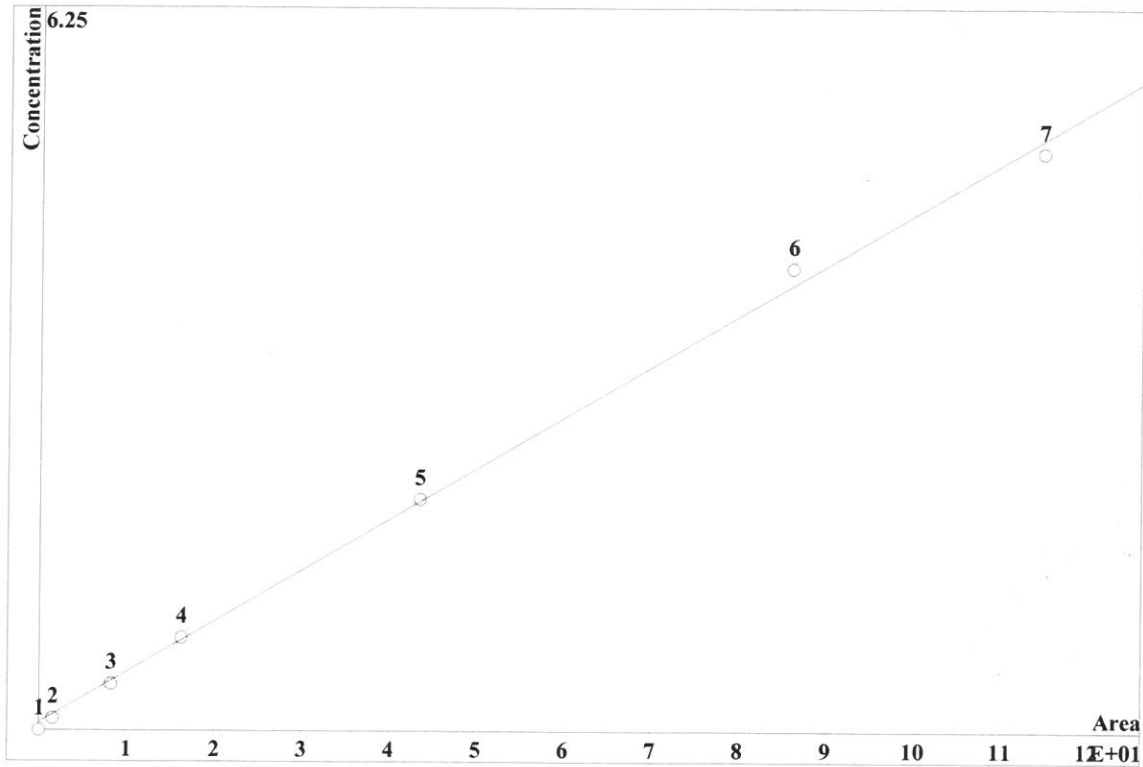
Clear table

ident	concentrati on F-	concentrati on CL-	concentrati on NO2	concentrati on BR-	concentrati on NO3	concentrati on HPO4	concentrati on SO4	file name	date time
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-18_	9/18/17 11:14
STD2	0.1400	0.2300	0.2670	0.8860	0.2300	-0.0150	1.4070	_2017-09-18_	9/18/17 11:43
STD3	0.4340	0.6550	0.6670	2.2590	0.5620	1.5520	3.2660	_2017-09-18_	9/18/17 12:12
STD4	0.7900	1.1620	1.1920	4.0390	0.9720	3.4220	5.6960	_2017-09-18_	9/18/17 12:41
STD5	2.0010	3.0010	2.9470	9.8370	2.3700	6.2830	14.3960	_2017-09-18_	9/18/17 13:10
STD6	3.9040	5.9100	5.8430	19.5270	4.8540	12.1460	28.5870	_2017-09-18_	9/18/17 13:39
STD7	5.1160	7.5820	7.6010	25.2570	6.3140	12.8120	38.2920	_2017-09-18_	9/18/17 14:08
ICV	1.9640	2.8510	2.8810	9.9890	2.4840	4.8410	14.3260	_2017-09-18_	9/18/17 15:34
ICB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-18_	9/18/17 16:03
CCV	2.0220	2.8830	2.9740	9.9880	2.4860	5.1990	14.9400	_2017-09-19_	9/19/17 12:13
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-19_	9/19/17 12:42
LB90170BLW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-19_	9/19/17 13:11
LB90170BSW	2.1120	2.8510	2.9090	9.9300	2.4000	5.2580	14.9390	_2017-09-19_	9/19/17 13:40
I5300-02	0.0000	2033.1240	0.0000	0.0000	0.0000	0.0000	7.3130	_2017-09-19_	9/19/17 14:24
I5300-03	0.0000	1481.7000	0.0000	0.0000	0.0000	0.0000	29.3110	_2017-09-19_	9/19/17 14:52
I5300-05	0.0000	2815.2010	0.0000	0.0000	0.0000	0.0000	27.3770	_2017-09-19_	9/19/17 15:50
I5300-10	0.0000	1348.0630	0.0000	0.0000	0.3030	0.0000	18.6160	_2017-09-19_	9/19/17 16:19
I5300-04	0.0000	1768.9880	0.0000	0.0000	0.2550	0.0000	8.8540	_2017-09-19_	9/19/17 16:48
I5300-04MS	2.6180	1543.3680	2.1670	13.6880	2.7890	3.5030	23.5920	_2017-09-19_	9/19/17 17:17
CCV	2.0400	3.0360	3.0580	10.1480	2.4400	3.4460	14.8330	_2017-09-19_	9/19/17 17:46
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-19_	9/19/17 18:15
I5300-02DLX50C	0.0000	2.5440	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-19_	9/19/17 20:11
I5300-03DLX20C	0.0000	4.9130	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-19_	9/19/17 20:40
I5300-04DLX50C	0.0000	2.1440	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-19_	9/19/17 21:09
I5300-05DLX50C	0.0000	3.3580	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-19_	9/19/17 21:37
I5300-10DLX20C	0.0000	4.3250	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-19_	9/19/17 22:06
CCV	1.7020	2.9760	3.4270	9.8060	2.4020	3.3090	14.3950	_2017-09-19_	9/19/17 22:35
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-19_	9/19/17 23:04
CCV	2.1960	2.8670	2.9220	10.1810	2.4460	5.9240	14.3780	_2017-09-20_	9/20/17 10:57
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-20_	9/20/17 11:30
I5300-04DUP	0.0000	1725.9000	0.0000	0.0000	0.2530	0.0000	9.2820	_2017-09-20_	9/20/17 13:25
CCV	1.9920	2.8690	2.9210	9.9770	2.3940	5.9730	14.4490	_2017-09-20_	9/20/17 16:00
CCB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	_2017-09-20_	9/20/17 16:31

IC-1 9-18-17
AK

CALIBRATION OF COMPONENT F-

Method: ANIONS 09-18-17.mtw
Equation: $Q = 0.880227 \cdot A + 1.34751$
RSD: 4.737 %
Correlation coefficient: 0.999084

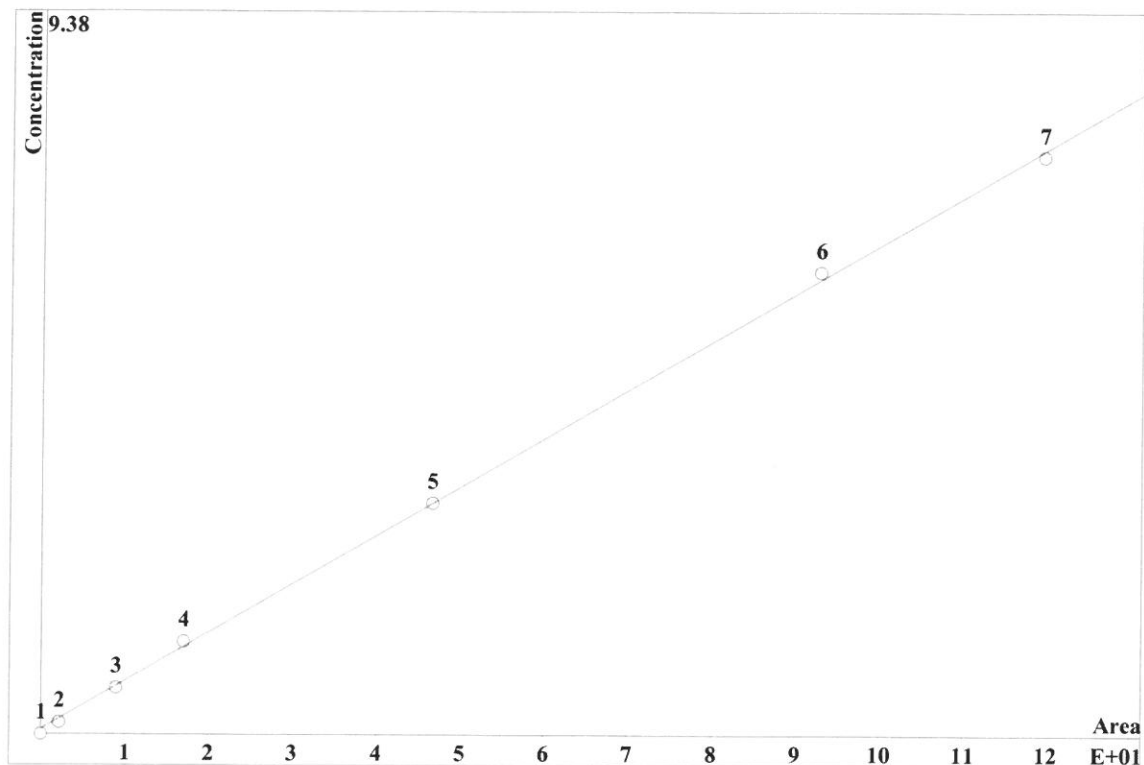


K3 = 0 K2 = 0 K1 = 0.880227 K0 = 1.34751
Base: Area
Ref.channel: Cond
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.06841	1.579	0.1	20	5.813	Yes	
3	0.3113	8.211	0.4	20	5.813	Yes	
4	0.6668	16.23	0.8	20	5.813	Yes	
5	1.903	43.52	2	20	5.813	Yes	
6	3.946	86.03	4	20	5.813	Yes	
7	5.194	114.7	5	20	5.813	Yes	

CALIBRATION OF COMPONENT CL-

Method: ANIONS 09-18-17.mtw
 Equation: $Q = 1.25786 \cdot A + 1.32191$
 RSD: 2.527 %
 Correlation coefficient: 0.999739

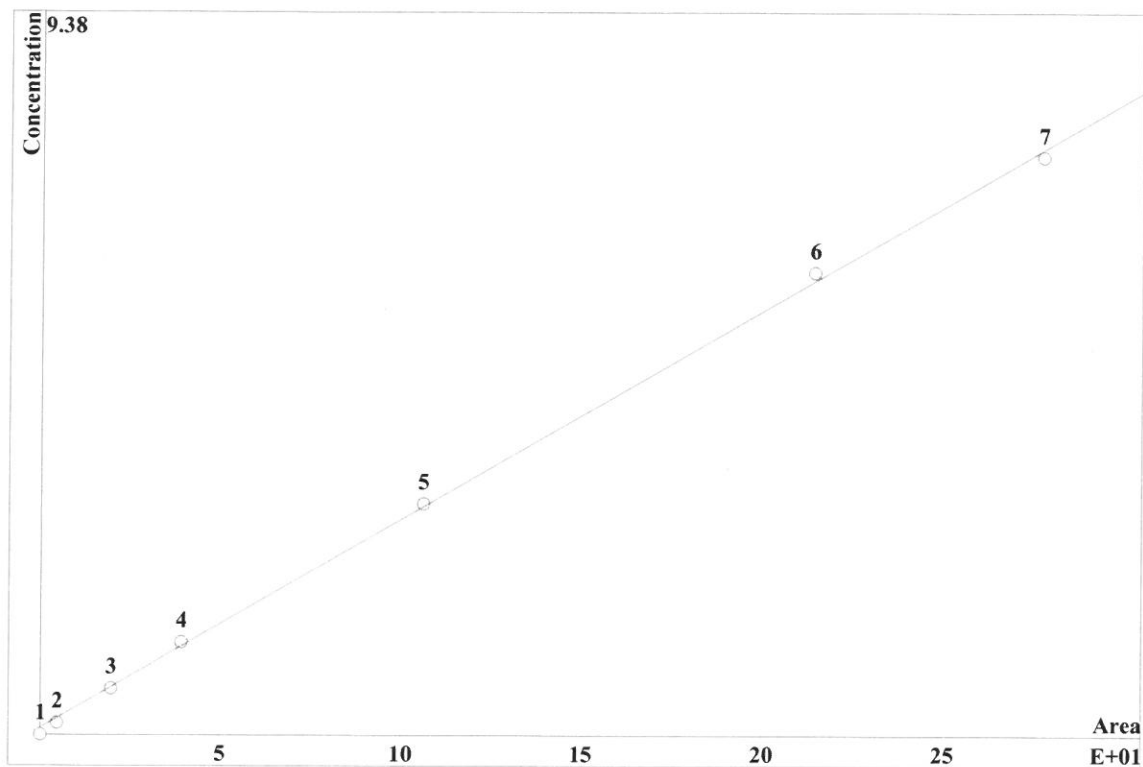


K3 = 0 K2 = 0 K1 = 1.25786 K0 = 1.32191
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.1078	2.202	0.15	20	8.549	Yes	
3	0.4298	8.932	0.6	20	8.549	Yes	
4	0.8256	16.98	1.2	20	8.549	Yes	
5	2.204	46.62	3	20	8.549	Yes	
6	4.49	92.82	6	20	8.549	Yes	
7	5.818	119.5	7.5	20	8.549	Yes	

CALIBRATION OF COMPONENT NO2

Method: ANIONS 09-18-17.mtw
 Equation: $Q = 0.541087 \cdot A + 1.82619$
 RSD: 2.840 %
 Correlation coefficient: 0.999671

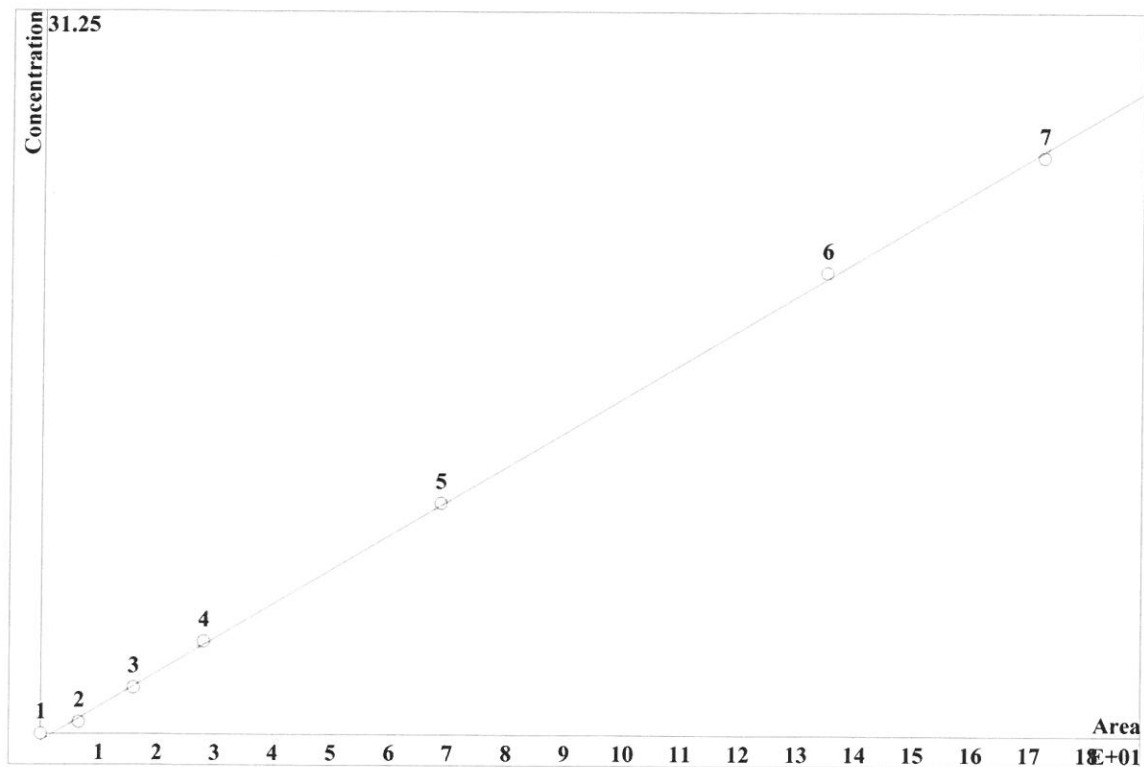


K3 = 0 K2 = 0 K1 = 0.541087 K0 = 1.82619
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.2064	4.691	0.15	20	10.12	Yes	
3	0.8557	19.62	0.6	20	10.12	Yes	
4	1.717	39.22	1.2	20	10.12	Yes	
5	4.638	106.2	3	20	10.12	Yes	
6	9.503	214.4	6	20	10.12	Yes	
7	12.35	277.6	7.5	20	10.12	Yes	

CALIBRATION OF COMPONENT BR-

Method: ANIONS 09-18-17.mtw
 Equation: $Q = 2.97146 \cdot A - 6.10153$
 RSD: 2.170 %
 Correlation coefficient: 0.999808

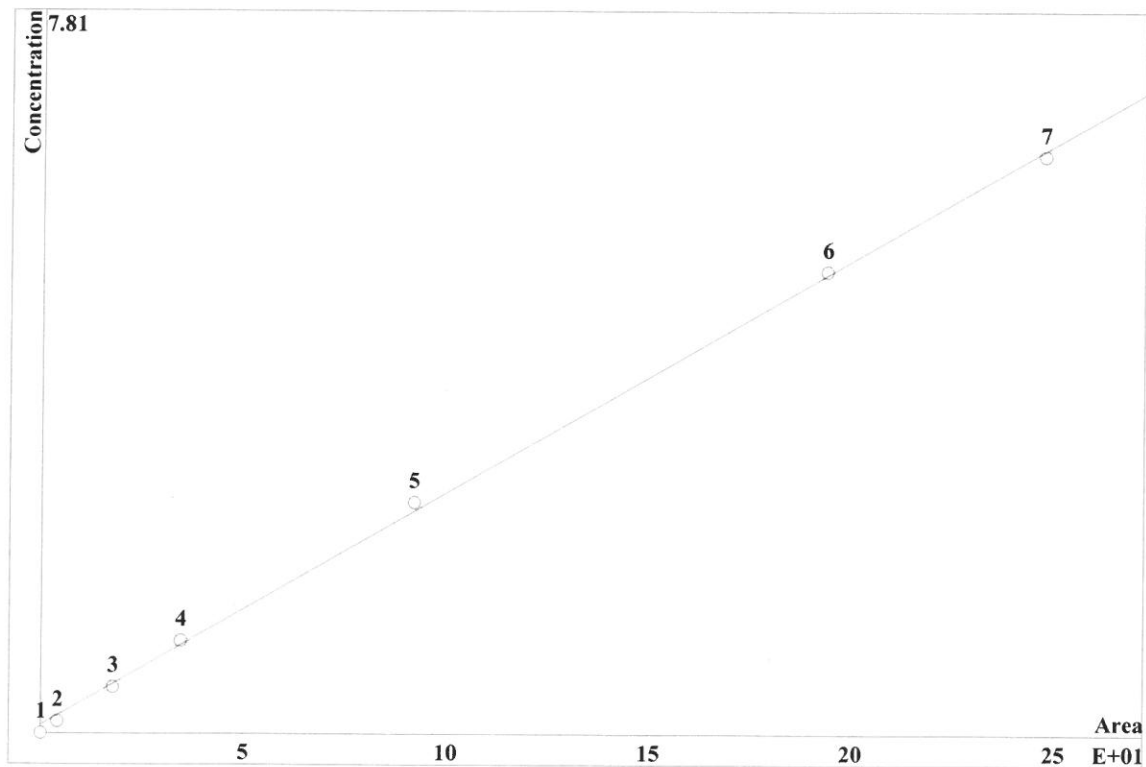


K3 = 0 K2 = 0 K1 = 2.97146 K0 = -6.10153
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.1756	6.574	0.5	20	12.77	Yes	
3	0.4627	15.94	2	20	12.77	Yes	
4	0.8151	28.1	4	20	12.77	Yes	
5	1.897	68.74	10	20	12.77	Yes	
6	3.405	134.9	20	20	12.77	Yes	
7	4.147	172.1	25	20	12.77	Yes	

CALIBRATION OF COMPONENT NO3

Method: ANIONS 09-18-17.mtw
 Equation: $Q = 0.503233 \cdot A + 1.80511$
 RSD: 2.906 %
 Correlation coefficient: 0.999655

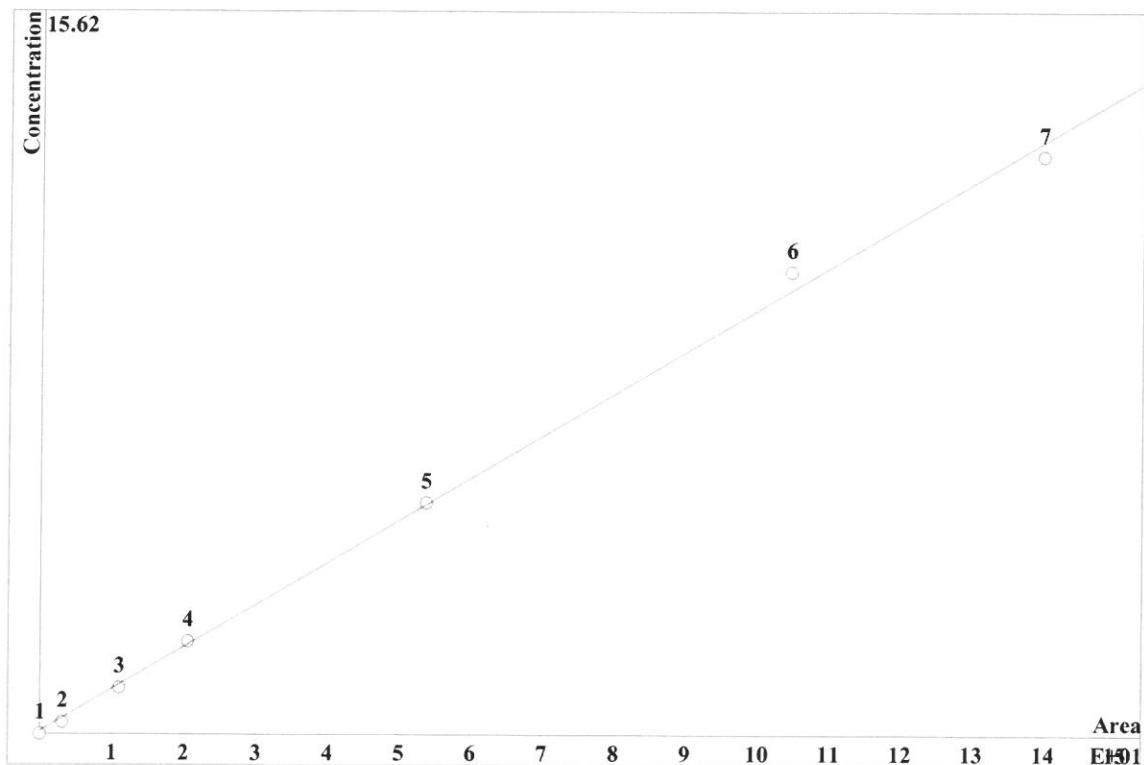


K3 = 0 K2 = 0 K1 = 0.503233 K0 = 1.80511
 Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.1469	4.165	0.125	20	14.38	Yes	
3	0.6036	17.75	0.5	20	14.38	Yes	
4	1.192	34.47	1	20	14.38	Yes	
5	3.187	92.04	2.5	20	14.38	Yes	
6	6.528	193.8	5	20	14.38	Yes	
7	8.504	247.4	6.25	20	14.38	Yes	

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 09-18-17.mtw
 Equation: $Q = 1.82468 \cdot A + 1.29701$
 RSD: 5.131 %
 Correlation coefficient: 0.998925



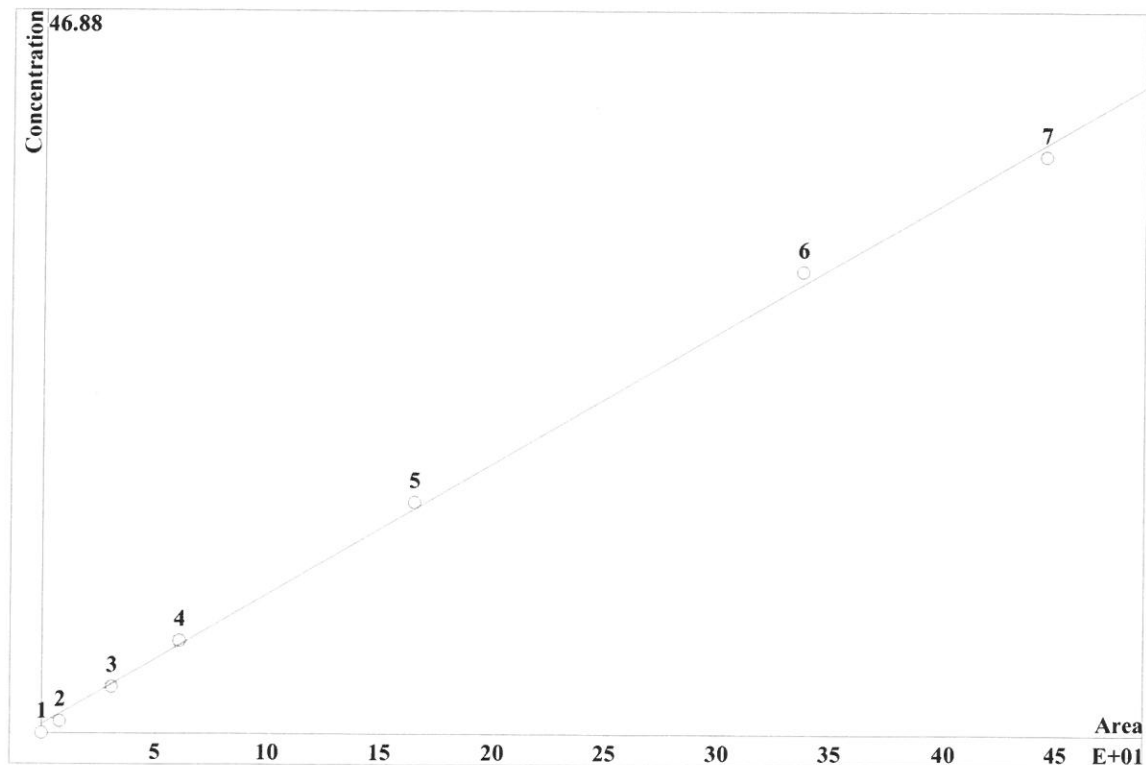
K3 = 0 K2 = 0 K1 = 1.82468 K0 = 1.29701

Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.0485	3.152	0.25	20	21.58	Yes	
3	0.1779	11.1	1	20	21.58	Yes	
4	0.3349	20.58	2	20	21.58	Yes	
5	0.8842	53.71	5	20	21.58	Yes	
6	1.831	104.5	10	20	21.58	Yes	
7	2.412	139.7	12.5	20	21.58	Yes	

CALIBRATION OF COMPONENT SO4

Method: ANIONS 09-18-17.mtw
 Equation: $Q = 1.69708 \cdot A + 11.5137$
 RSD: 4.420 %
 Correlation coefficient: 0.999202



K3 = 0 K2 = 0 K1 = 1.69708 K0 = 11.5137

Base: Area
 Ref.channel: Cond
 ISTD:
 Formula: Linear
 Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1	0	0	0	0	0		No
2	0.1778	8.05	0.75	20	24.1	Yes	
3	0.6998	30.92	3	20	24.1	Yes	
4	1.385	60.83	6	20	24.1	Yes	
5	3.762	165.1	15	20	24.1	Yes	
6	7.815	337	30	20	24.1	Yes	
7	10.33	444.5	37.5	20	24.1	Yes	

Report date: 9/18/2017 5:33:49 PM
Printed by: wet

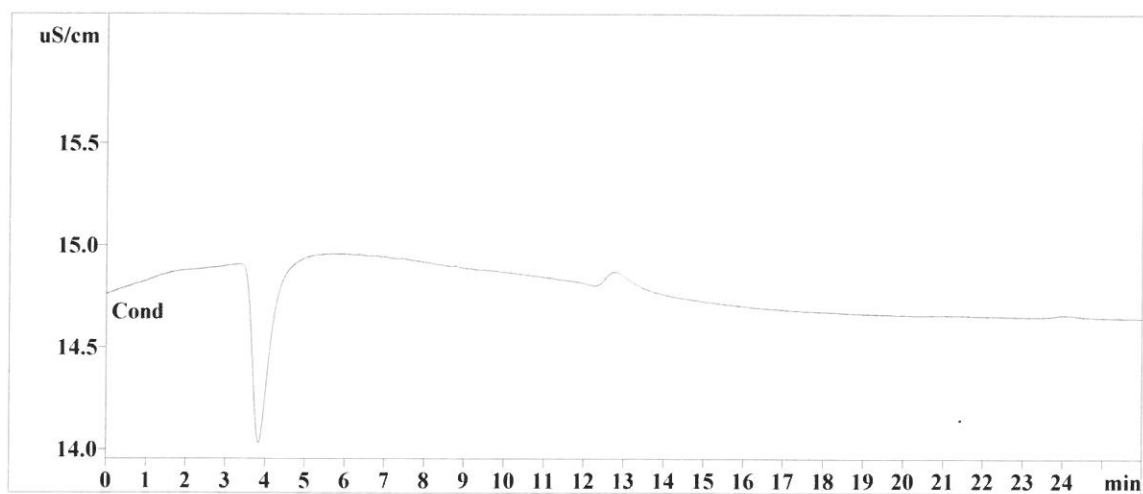
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Analysis from: 9/18/2017 11:14:33 AM
File: _2017-09-18_

Last save: 9/18/2017 1:58:08 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59025

Last save: 9/18/2017 11:40:22 AM

SAMPLE:
: AP/AK
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: 9/18/2017 5:34:00 PM
Printed by: wet

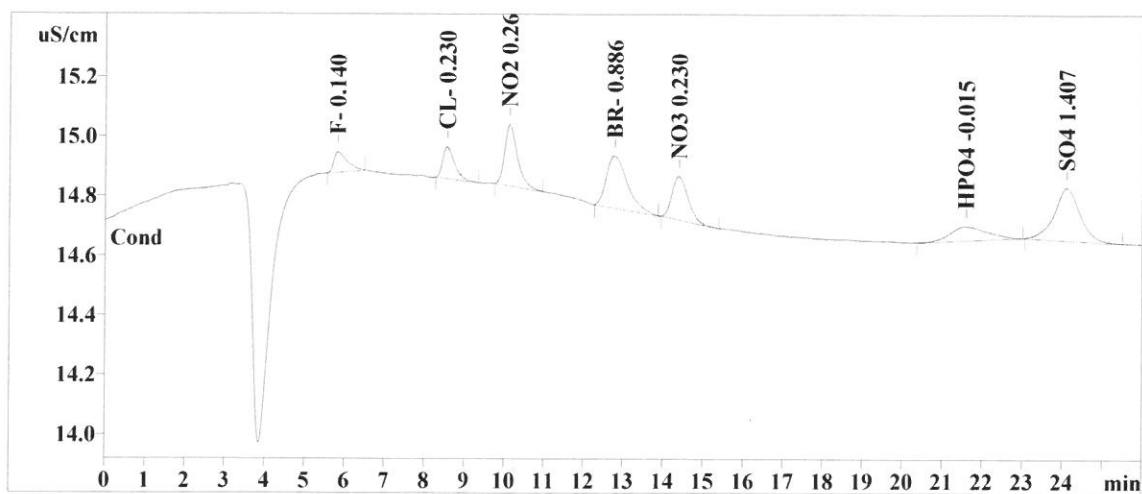
Ident: STD2
Analysis from: 9/18/2017 11:43:29 AM
File: _2017-09-18_

Last save: 9/18/2017 1:58:08 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59026

Last save: 9/18/2017 11:40:22 AM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.81	0.344	0.07	7.32	1.579	5.19	0.
2	8.55	0.303	0.11	11.51	2.202	7.24	0.
3	10.12	0.335	0.21	22.07	4.691	15.42	0.
4	12.77	0.565	0.18	18.81	6.574	21.62	0.
5	14.38	0.441	0.15	15.69	4.165	13.69	0.
6	21.58	1.021	0.05	5.13	3.152	10.36	0.
7	24.10	0.654	0.18	19.03	8.050	26.47	0.
7	26.00	0.523	0.93	99.56	30.411	100.00	0.

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Report date: 9/18/2017 5:34:08 PM
Printed by: wet

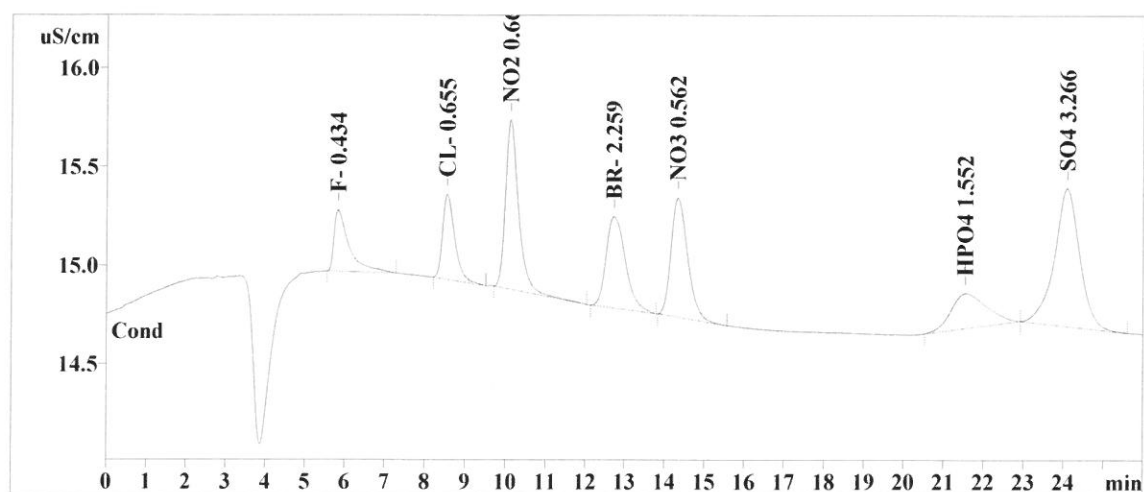
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Analysis from: 9/18/2017 12:12:24 PM
File: _2017-09-18_

Last save: 9/18/2017 1:58:08 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59027

Last save: 9/18/2017 11:40:22 AM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.83	0.344	0.31	8.77	8.211	7.30	0.
2	8.55	0.306	0.43	12.13	8.932	7.94	0.
3	10.11	0.332	0.86	24.16	19.623	17.45	0.
4	12.71	0.529	0.46	13.05	15.945	14.18	0.
5	14.33	0.448	0.60	17.03	17.746	15.78	0.
6	21.55	0.980	0.18	5.01	11.097	9.87	0.
7	24.09	0.636	0.70	19.74	30.919	27.49	0.
7	26.00	0.511	3.54	99.88	112.472	100.00	0.

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Report date: 9/18/2017 5:34:17 PM
Printed by: wet

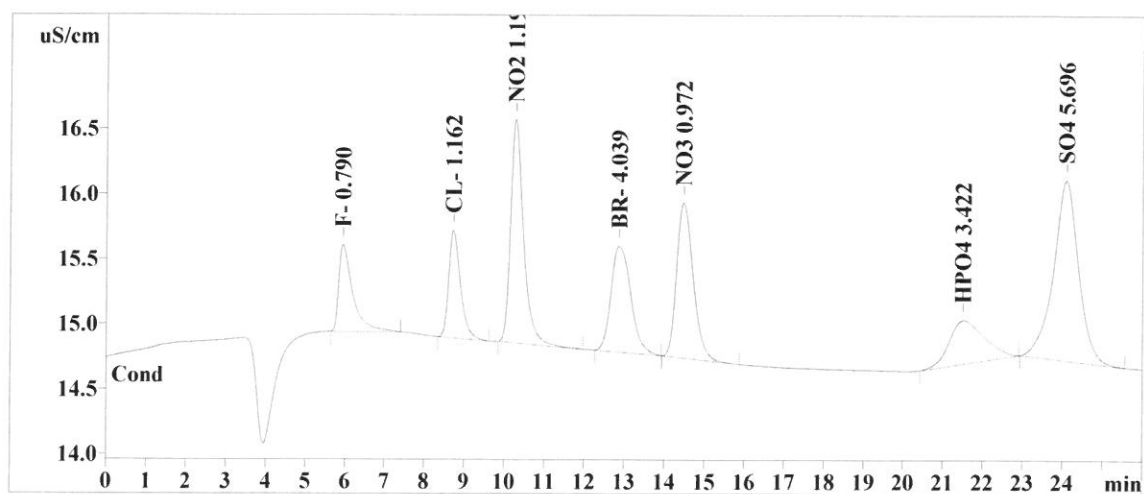
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Analysis from: 9/18/2017 12:41:20 PM
File: _2017-09-18_

Last save: 9/18/2017 1:58:10 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59028

Last save: 9/18/2017 11:40:22 AM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.94	0.332	0.67	9.60	16.230	7.50	0.
2	8.72	0.304	0.83	11.89	16.976	7.84	0.
3	10.27	0.331	1.72	24.74	39.218	18.12	0.
4	12.86	0.534	0.81	11.74	28.098	12.98	0.
5	14.46	0.440	1.19	17.18	34.466	15.93	0.
6	21.51	0.957	0.33	4.82	20.578	9.51	0.
7	24.09	0.630	1.38	19.96	60.829	28.11	0.
7	26.00	0.504	6.93	99.95	216.395	100.00	0.

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Report date: 9/18/2017 5:34:23 PM
Printed by: wet

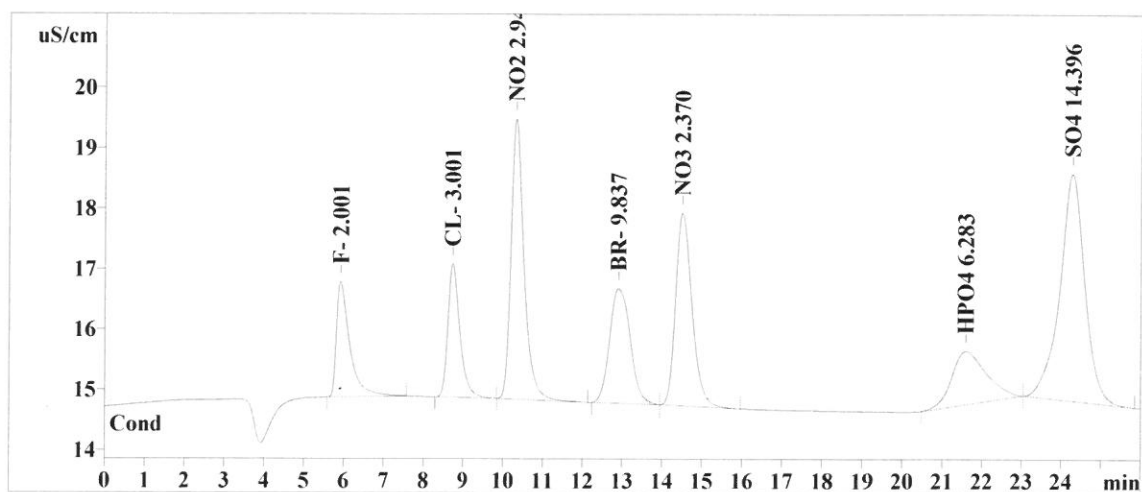
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File: _2017-09-18_

Last save: 9/18/2017 3:15:12 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59029

Last save: 9/18/2017 11:40:22 AM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.92	0.314	1.90	10.30	43.518	7.56	0.
2	8.72	0.310	2.20	11.93	46.624	8.09	0.
3	10.32	0.332	4.64	25.10	106.179	18.44	0.
4	12.90	0.569	1.90	10.27	68.738	11.93	0.
5	14.50	0.438	3.19	17.25	92.043	15.98	0.
6	21.58	0.929	0.88	4.78	53.706	9.32	0.
7	24.28	0.626	3.76	20.35	165.147	28.67	0.
7	26.00	0.503	18.47	99.98	575.955	100.00	0.

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Report date: 9/18/2017 5:34:34 PM
Printed by: wet

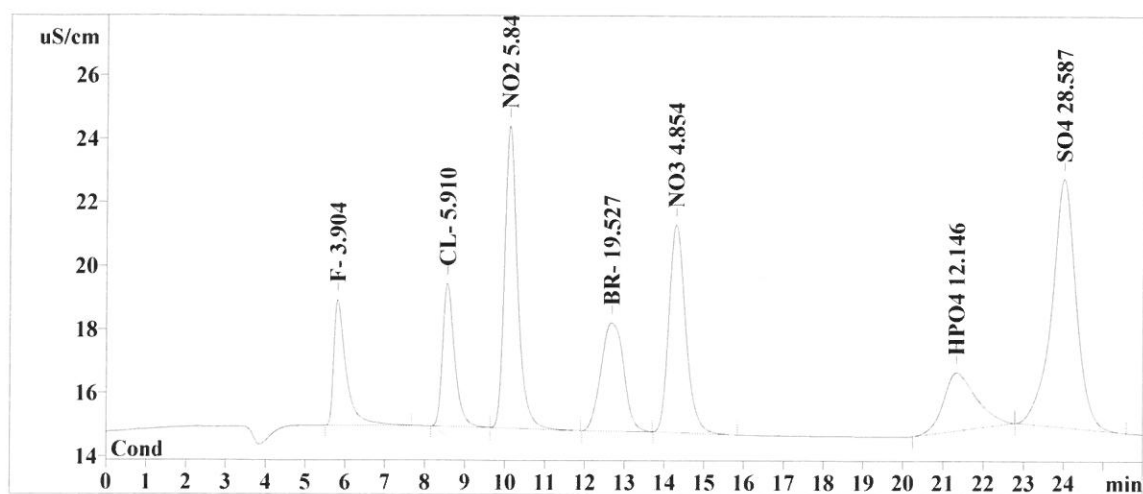
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Analysis from: 9/18/2017 1:39:11 PM
File: _2017-09-18_

Last save: 9/18/2017 3:15:12 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59030

Last save: 9/18/2017 11:40:22 AM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.81	0.300	3.94	10.51	86.032	7.39	0.
2	8.55	0.303	4.49	11.97	92.815	7.98	0.
3	10.10	0.329	9.50	25.33	214.422	18.43	0.
4	12.66	0.627	3.40	9.07	134.852	11.59	0.
5	14.28	0.450	6.53	17.40	193.752	16.65	0.
6	21.32	0.858	1.83	4.88	104.533	8.98	0.
7	24.00	0.615	7.81	20.83	337.024	28.97	0.
7	26.00	0.497	37.51	99.99	1163.430	100.00	0.

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Report date: 9/18/2017 5:34:46 PM
Printed by: wet

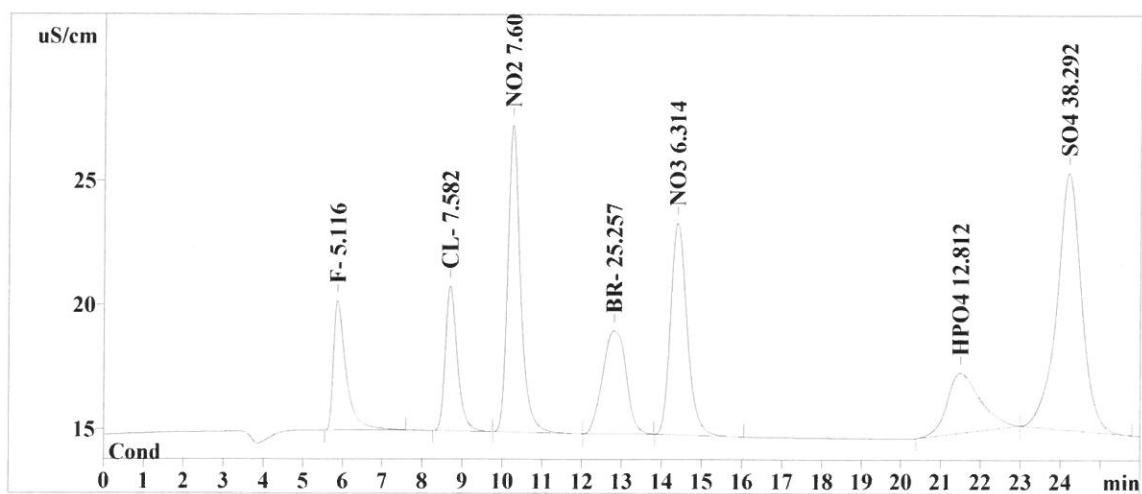
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Analysis from: 9/18/2017 2:08:06 PM
File: _2017-09-18_

Last save: 9/18/2017 3:17:50 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59031

Last save: 9/18/2017 11:40:22 AM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.86	0.308	5.19	10.65	114.718	7.57	0.
2	8.69	0.301	5.82	11.93	119.501	7.89	0.
3	10.25	0.328	12.35	25.33	277.577	18.32	0.
4	12.80	0.658	4.15	8.51	172.052	11.35	0.
5	14.38	0.440	8.50	17.44	247.356	16.32	0.
6	21.48	0.867	2.41	4.95	139.714	9.22	0.
7	24.20	0.616	10.33	21.18	444.488	29.33	0.
7	26.00	0.503	48.75	99.99	1515.406	100.00	0.

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Report date: 9/18/2017 5:37:21 PM
Printed by: wet

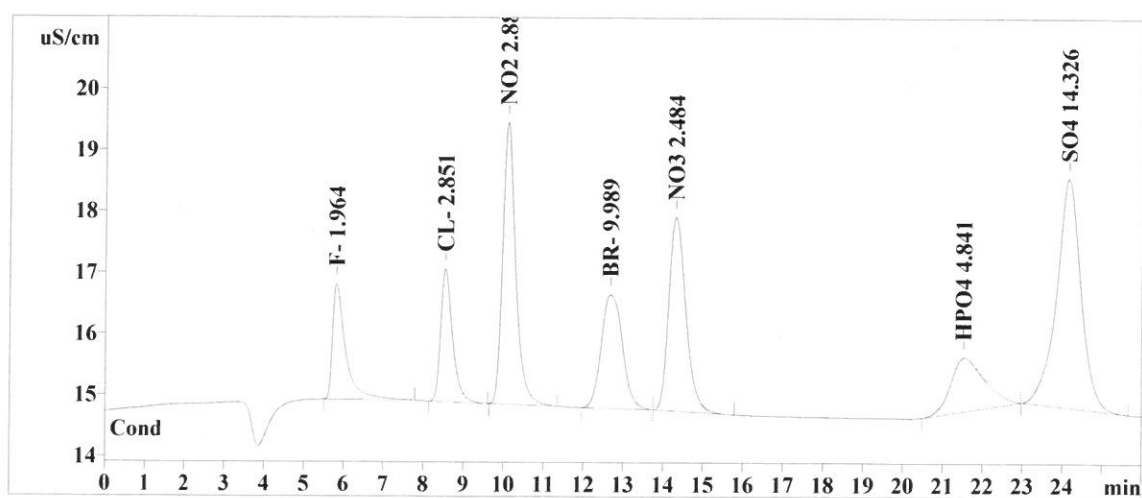
Ident: ICV
Analysis from: 9/18/2017 3:34:53 PM
File: _2017-09-18_

Last save: 9/18/2017 4:00:42 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59034

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.81	0.308	1.88	10.29	43.091	7.57	0.
2	8.54	0.300	2.17	11.84	44.276	7.78	0.
3	10.08	0.326	4.60	25.13	103.110	18.11	0.
4	12.66	0.583	1.86	10.16	69.284	12.17	0.
5	14.31	0.457	3.16	17.28	95.135	16.71	0.
6	21.52	0.912	0.88	4.81	52.348	9.20	0.
7	24.15	0.620	3.75	20.47	162.044	28.46	0.
7	26.00	0.501	18.30	99.99	569.288	100.00	0.

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Report date: 9/18/2017 5:38:00 PM
Printed by: wet

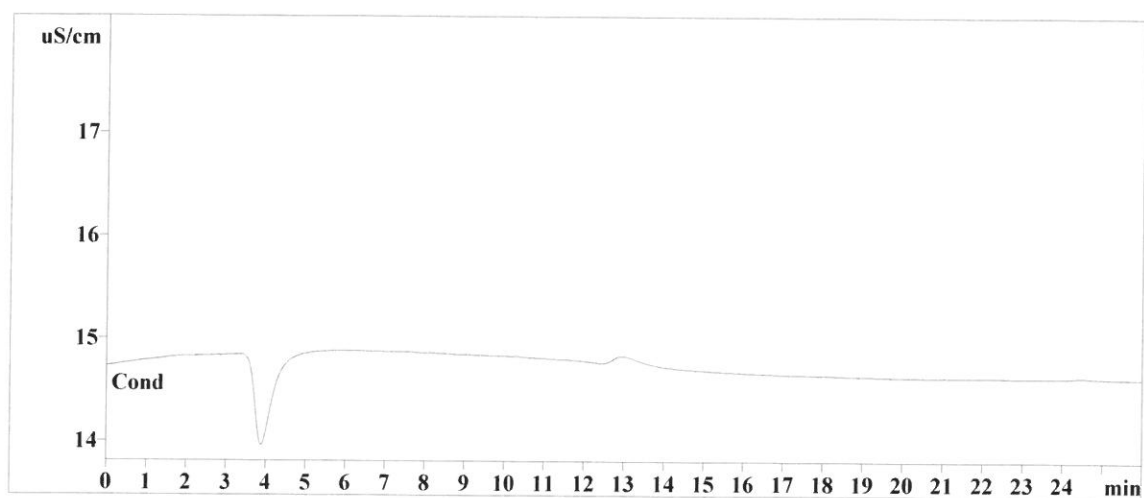
Ident: ICB
Analysis from: 9/18/2017 4:03:48 PM
File: _2017-09-18_

Last save: 9/18/2017 5:37:52 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59035

Last save: 9/18/2017 2:33:56 PM

SAMPLE:
: AK/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: 9/20/2017 12:38:25 PM
Printed by: wet

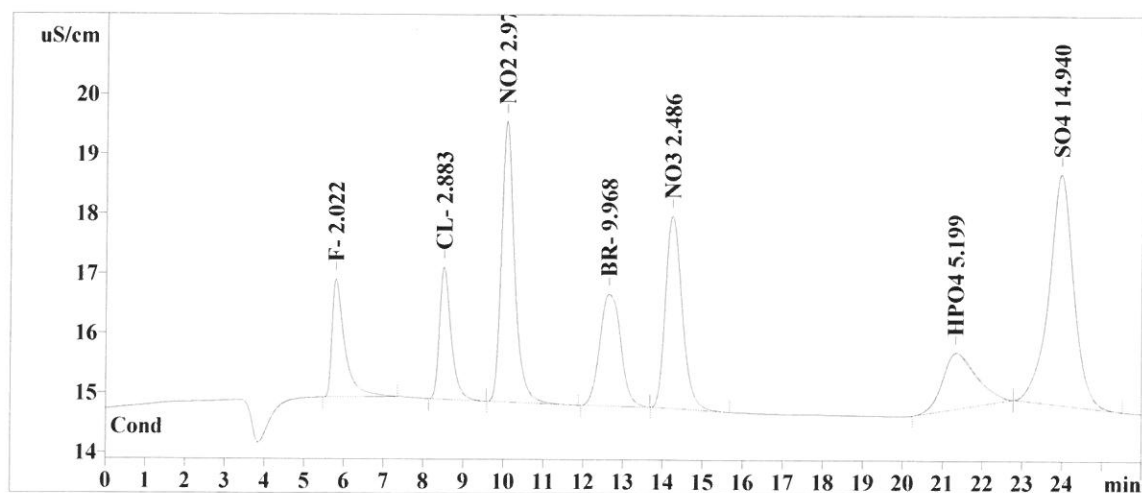
Ident: CCV
Analysis from: 9/19/2017 12:13:43 PM
File: _2017-09-19_

Last save: 9/19/2017 12:39:32 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59069

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.79	0.309	1.97	10.49	44.421	7.58	0.
2	8.51	0.297	2.21	11.77	44.794	7.65	0.
3	10.06	0.328	4.70	25.01	106.542	18.19	0.
4	12.63	0.578	1.87	9.97	69.148	11.81	0.
5	14.22	0.451	3.22	17.15	95.228	16.26	0.
6	21.32	0.912	0.94	5.01	56.273	9.61	0.
7	23.96	0.629	3.87	20.57	169.282	28.90	0.
7	26.00	0.501	18.79	99.98	585.688	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 12:43:41 PM
Printed by: wet

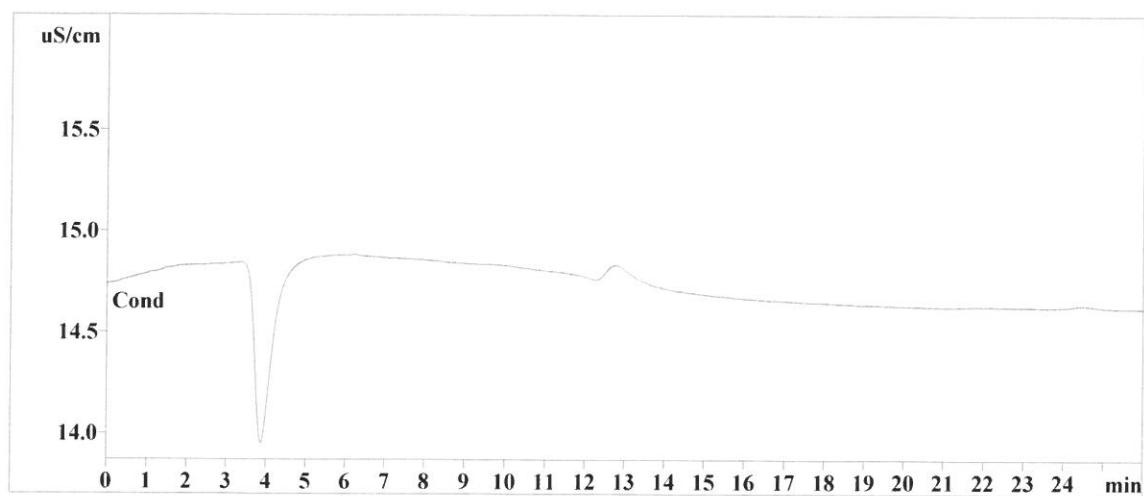
Ident: CCB
Analysis from: 9/19/2017 12:42:38 PM
File: _2017-09-19_

Last save: 9/20/2017 12:38:52 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59070

Last save: 9/18/2017 3:17:20 PM

SAMPLE:
:
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: 9/20/2017 12:43:48 PM
Printed by: wet

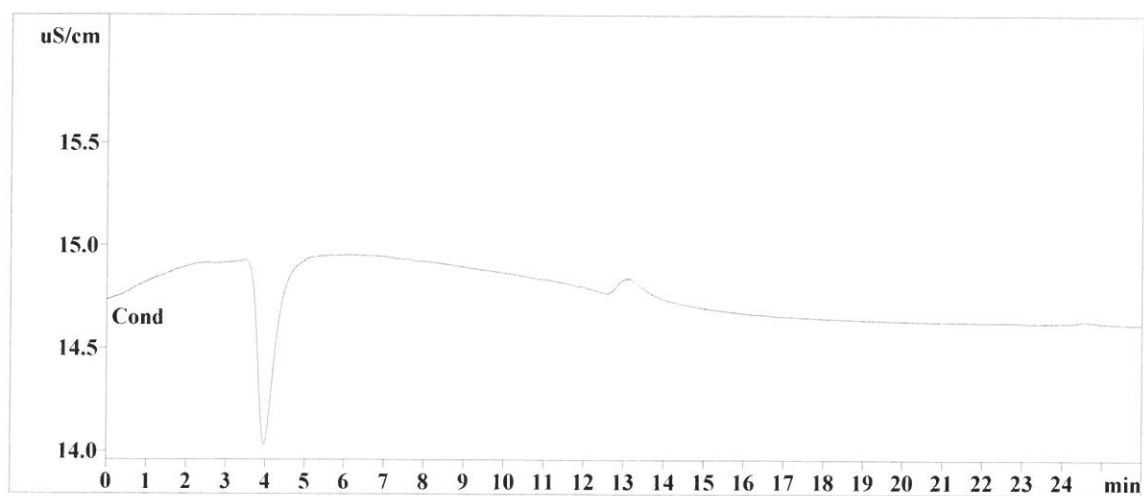
Ident: LB90170BLW
Analysis from: 9/19/2017 1:11:34 PM
File: _2017-09-19_

Last save: 9/20/2017 12:38:52 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59071

Last save: 9/18/2017 3:17:20 PM

SAMPLE:
:
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: 9/20/2017 12:43:58 PM
Printed by: wet

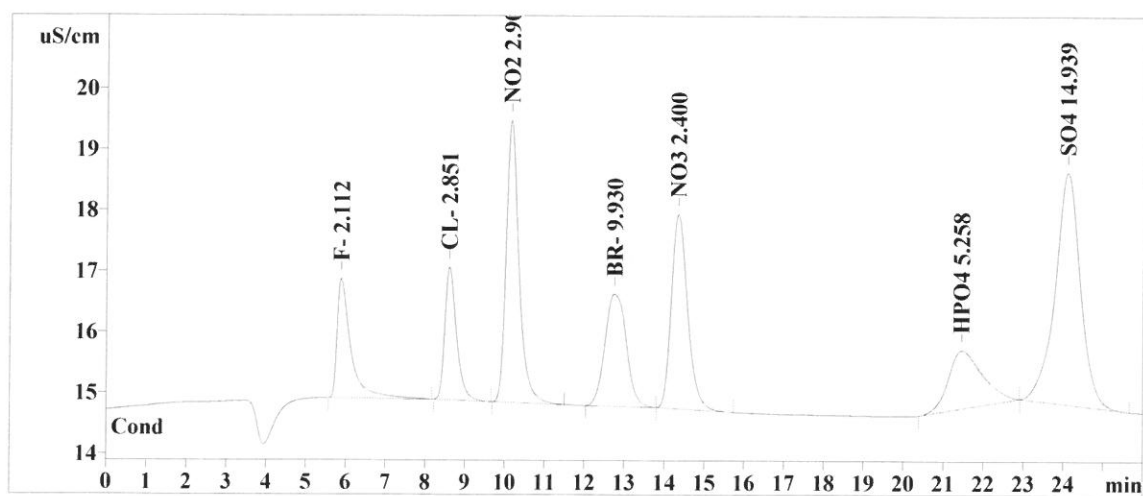
Ident: LB90170BSW
Analysis from: 9/19/2017 1:40:30 PM
File: _2017-09-19_

Last save: 9/19/2017 6:48:10 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59072

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.88	0.313	1.95	10.52	46.450	7.98	0.
2	8.60	0.299	2.18	11.72	44.273	7.61	0.
3	10.14	0.327	4.63	24.93	104.145	17.90	0.
4	12.74	0.585	1.84	9.93	68.889	11.84	0.
5	14.32	0.436	3.19	17.19	91.790	15.78	0.
6	21.44	0.907	0.96	5.16	56.917	9.78	0.
7	24.10	0.642	3.81	20.52	169.266	29.10	0.
7	26.00	0.501	18.56	99.99	581.731	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 12:46:14 PM
Printed by: wet

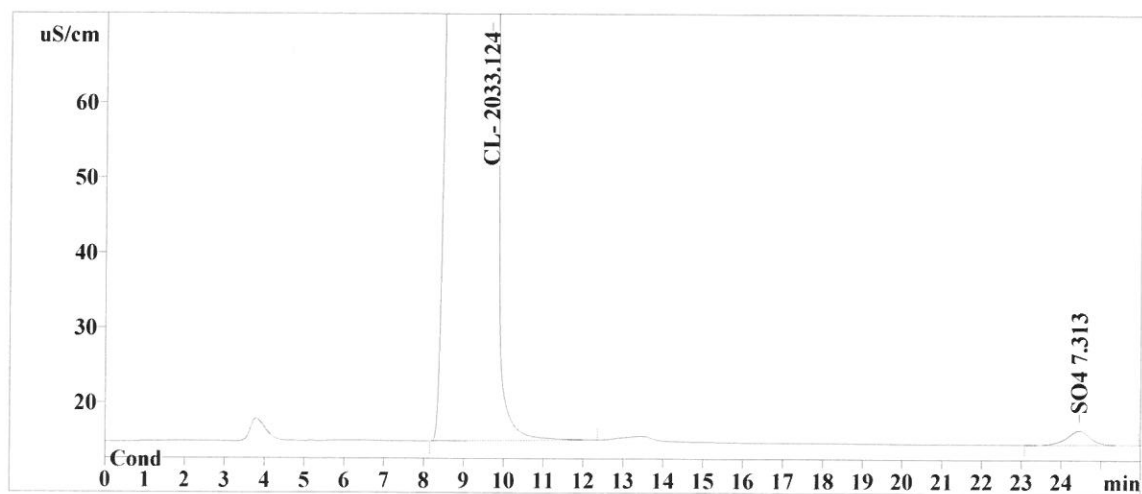
Ident: I5300-02
Analysis from: 9/19/2017 2:24:01 PM
File: _2017-09-19_

Last save: 9/20/2017 12:45:44 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59074

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.66	0.827	668.43	99.71	32325.620	99.75	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.46	0.598	1.92	0.29	79.397	0.25	0.
7	26.00	0.204	670.35	99.99	32405.018	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 12:47:52 PM
Printed by: wet

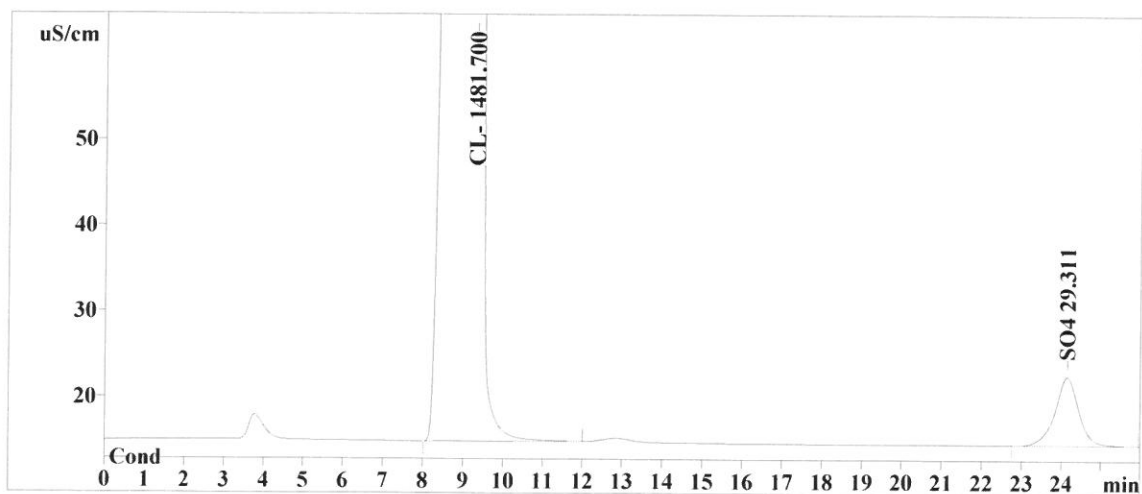
Ident: I5300-03
Analysis from: 9/19/2017 2:52:57 PM
File: _2017-09-19_

Last save: 9/20/2017 12:47:48 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59075

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.30	0.684	583.65	98.66	23557.987	98.58	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.15	0.609	8.00	1.35	338.649	1.42	0.
7	26.00	0.185	591.64	100.01	23896.636	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 12:55:32 PM
Printed by: wet

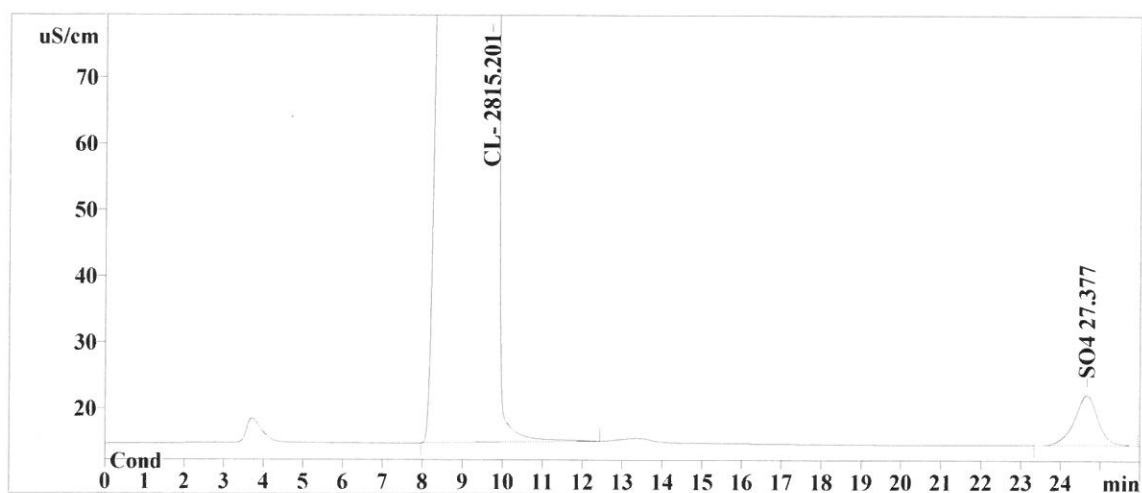
Ident: I5300-05
Analysis from: 9/19/2017 3:50:48 PM
File: _2017-09-19_

Last save: 9/20/2017 12:55:26 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59077

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.69	1.030	755.81	98.98	44760.649	99.30	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.66	0.605	7.58	0.99	315.852	0.70	0.
7	26.00	0.234	763.39	99.97	45076.501	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 12:58:46 PM
Printed by: wet

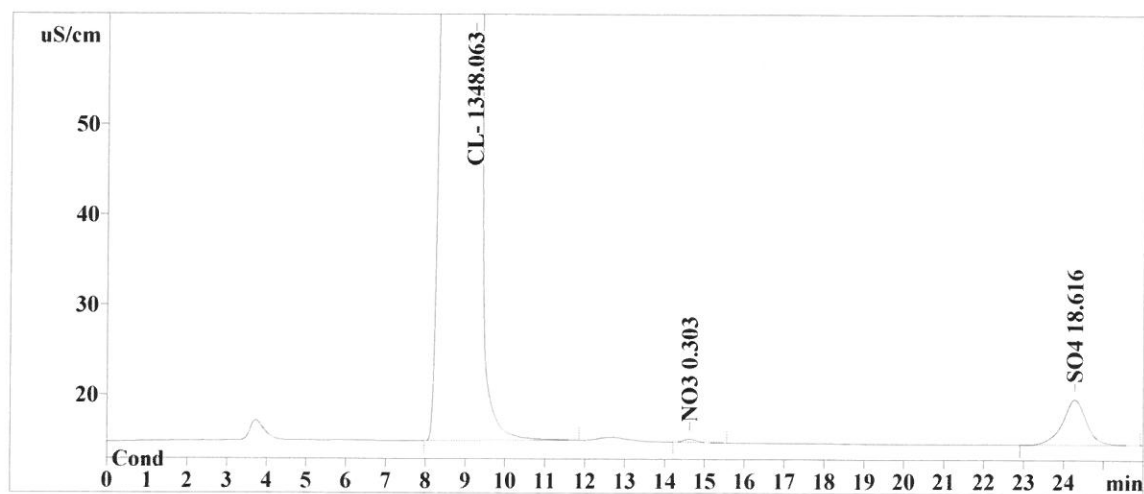
Ident: I5300-10
Analysis from: 9/19/2017 4:19:44 PM
File: _2017-09-19_

Last save: 9/20/2017 12:58:44 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59078

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.21	0.649	555.72	99.01	21433.150	98.98	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	14.62	0.364	0.36	0.06	8.459	0.04	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.28	0.610	5.02	0.89	212.599	0.98	0.
7	26.00	0.232	561.10	99.97	21654.208	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 12:59:38 PM
Printed by: wet

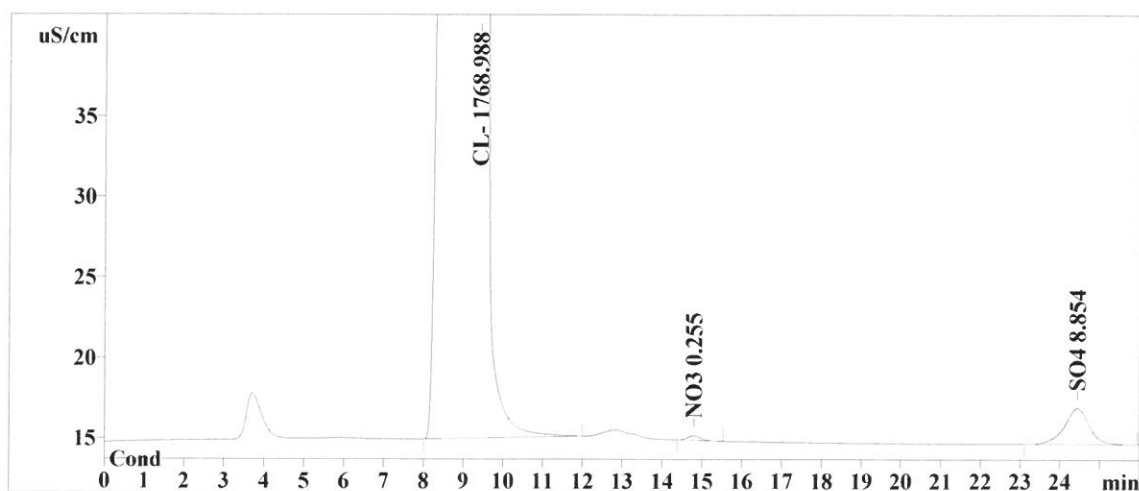
Ident: I5300-04
Analysis from: 9/19/2017 4:48:39 PM
File: _2017-09-19_

Last save: 9/20/2017 12:59:38 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59079

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.41	0.771	622.19	99.60	28125.852	99.63	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	14.80	0.351	0.29	0.05	6.548	0.02	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	24.45	0.627	2.25	0.36	97.564	0.35	0.
7	26.00	0.250	624.72	100.00	28229.964	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 12:59:50 PM
Printed by: wet

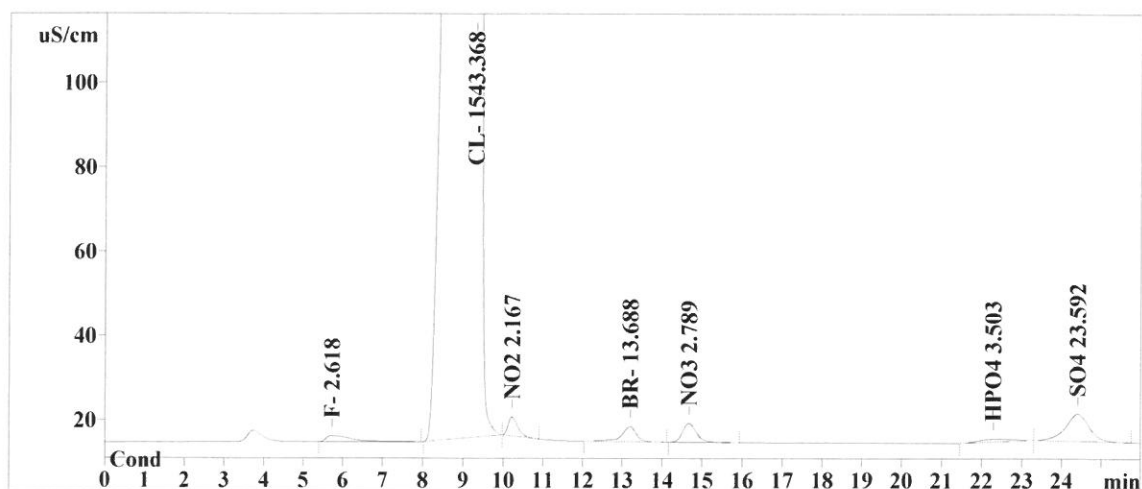
Ident: I5300-04MS
Analysis from: 9/19/2017 5:17:35 PM
File: _2017-09-19_

Last save: 9/19/2017 5:43:24 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59080

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.73	0.627	1.37	0.22	57.945	0.23	0.
2	9.29	0.705	592.05	96.54	24538.503	97.44	0.
3	10.22	0.254	4.51	0.73	76.739	0.30	0.
4	13.20	0.360	3.55	0.58	94.183	0.37	0.
5	14.67	0.363	4.46	0.73	107.257	0.43	0.
6	22.28	0.961	0.65	0.11	37.681	0.15	0.
7	24.41	0.611	6.49	1.06	271.242	1.08	0.
7	26.00	0.554	613.09	99.97	25183.550	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 1:00:03 PM
Printed by: wet

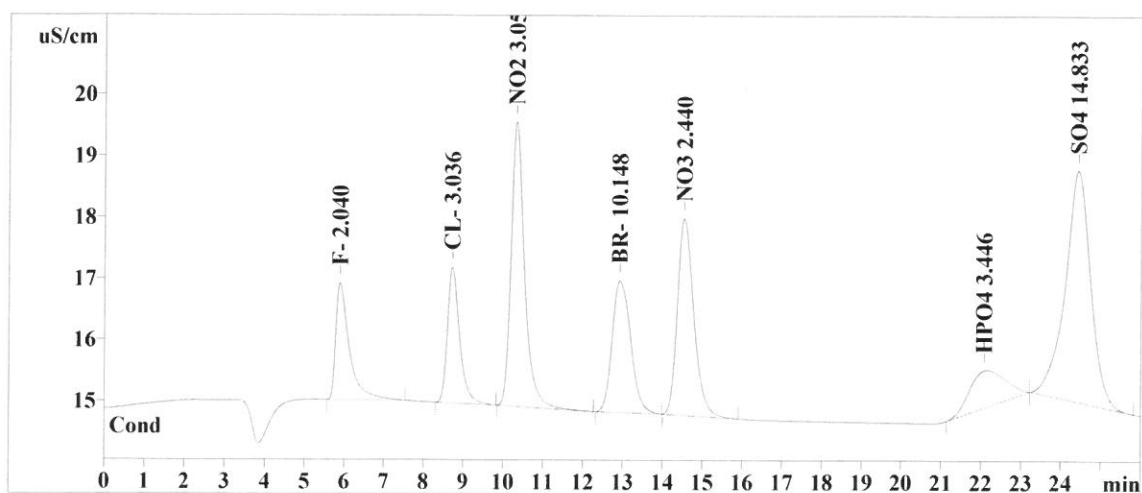
Ident: CCV
Analysis from: 9/19/2017 5:46:30 PM
File: _2017-09-19_

Last save: 9/19/2017 6:12:20 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59081

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.89	0.321	1.90	10.29	44.821	7.86	0.
2	8.72	0.311	2.21	11.96	47.227	8.28	0.
3	10.32	0.340	4.64	25.07	109.659	19.22	0.
4	12.92	0.513	2.15	11.61	70.356	12.33	0.
5	14.53	0.440	3.21	17.35	93.367	16.37	0.
6	22.05	1.002	0.61	3.29	37.062	6.50	0.
7	24.43	0.640	3.77	20.42	168.020	29.45	0.
7	26.00	0.510	18.49	100.00	570.511	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 1:00:10 PM
Printed by: wet

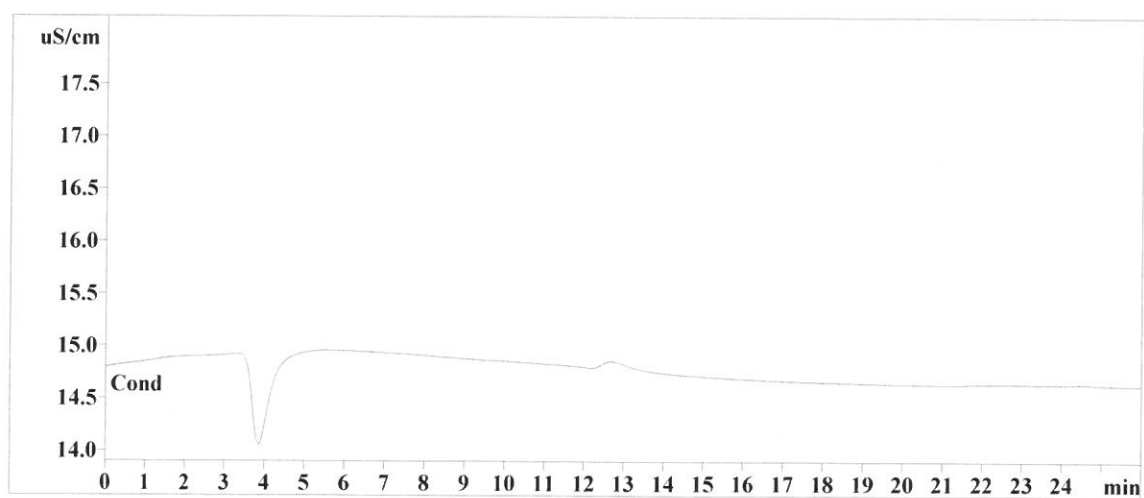
Ident: CCB
Analysis from: 9/19/2017 6:15:25 PM
File: _2017-09-19_

Last save: 9/20/2017 12:38:52 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59082

Last save: 9/18/2017 3:17:20 PM

SAMPLE:
: AK/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: 9/20/2017 5:25:25 PM
Printed by: wet

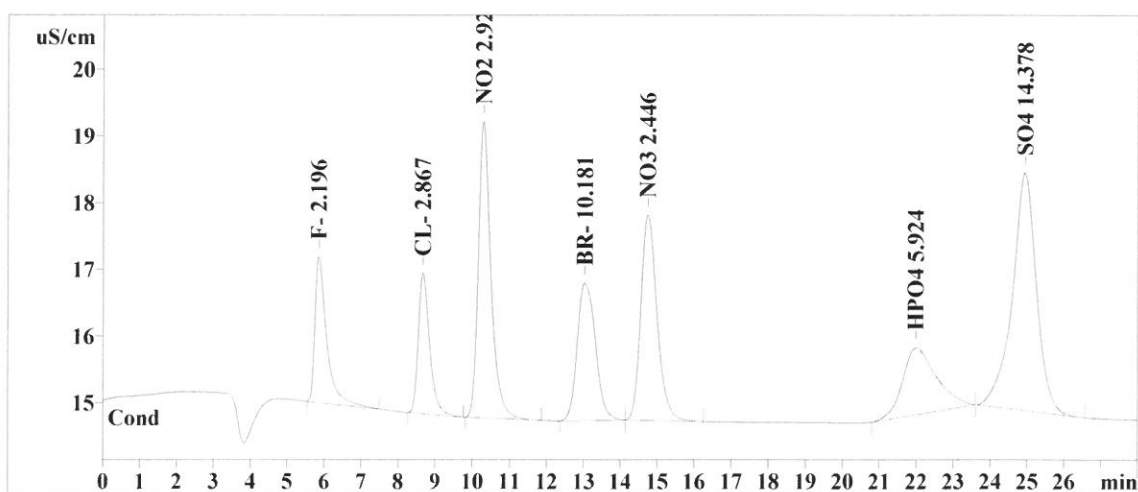
Ident: CCV
Analysis from: 9/20/2017 10:57:18 AM
File: _2017-09-20_

Last save: 9/20/2017 11:26:54 AM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59097

Last save: 9/20/2017 10:44:36 AM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.85	0.306	2.18	11.84	48.358	8.22	0.
2	8.66	0.309	2.11	11.42	44.531	7.57	0.
3	10.29	0.342	4.44	24.08	104.619	17.77	0.
4	13.03	0.534	2.06	11.18	70.578	11.99	0.
5	14.73	0.460	3.08	16.68	93.635	15.91	0.
6	21.98	0.953	1.01	5.46	64.220	10.91	0.
7	24.93	0.647	3.56	19.32	162.660	27.64	0.
7	28.00	0.507	18.45	99.98	588.602	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 5:25:32 PM
Printed by: wet

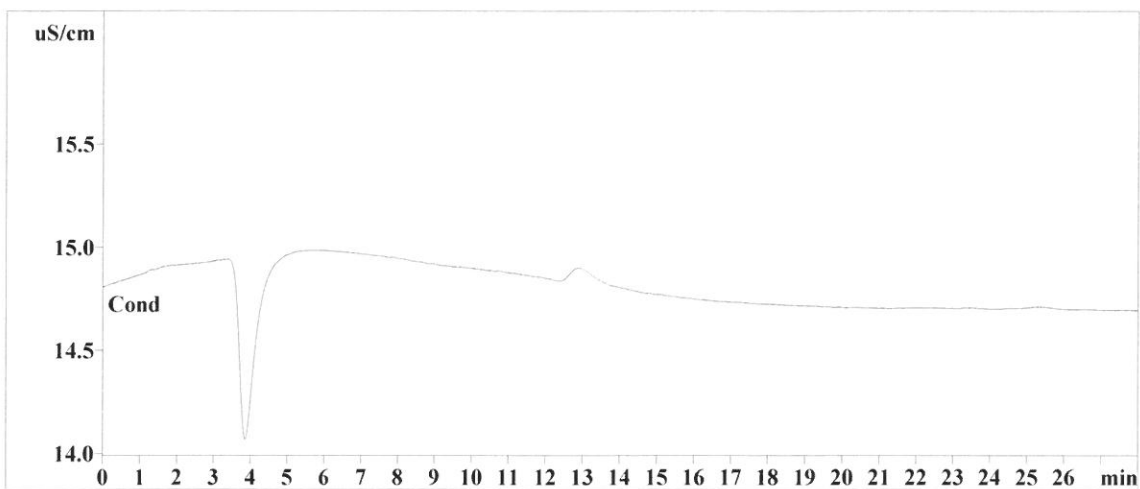
Ident: CCB
Analysis from: 9/20/2017 11:30:08 AM
File: _2017-09-20_

Last save: 9/20/2017 4:20:32 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59098

Last save: 9/20/2017 10:44:36 AM

SAMPLE:
: AK/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: 9/20/2017 4:23:09 PM
Printed by: wet

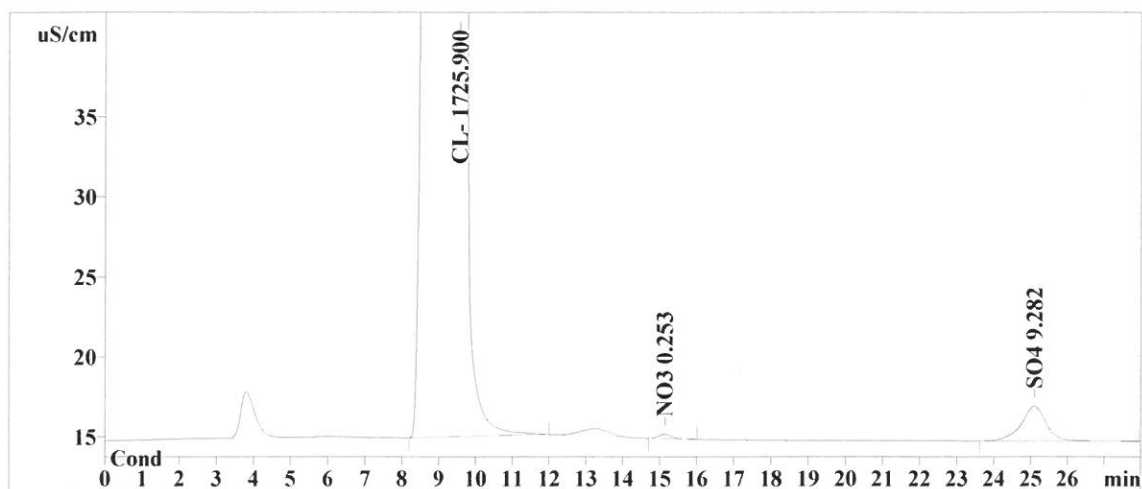
Ident: I5300-04DUP
Analysis from: 9/20/2017 1:25:33 PM
File: _2017-09-20_

Last save: 9/20/2017 4:23:08 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59102

Last save: 9/20/2017 10:44:36 AM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	9.55	0.748	625.27	99.59	27440.759	99.60	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	15.13	0.355	0.28	0.04	6.466	0.02	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	25.10	0.669	2.17	0.35	102.608	0.37	0.
7	28.00	0.253	627.72	99.98	27549.833	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 5:25:47 PM
Printed by: wet

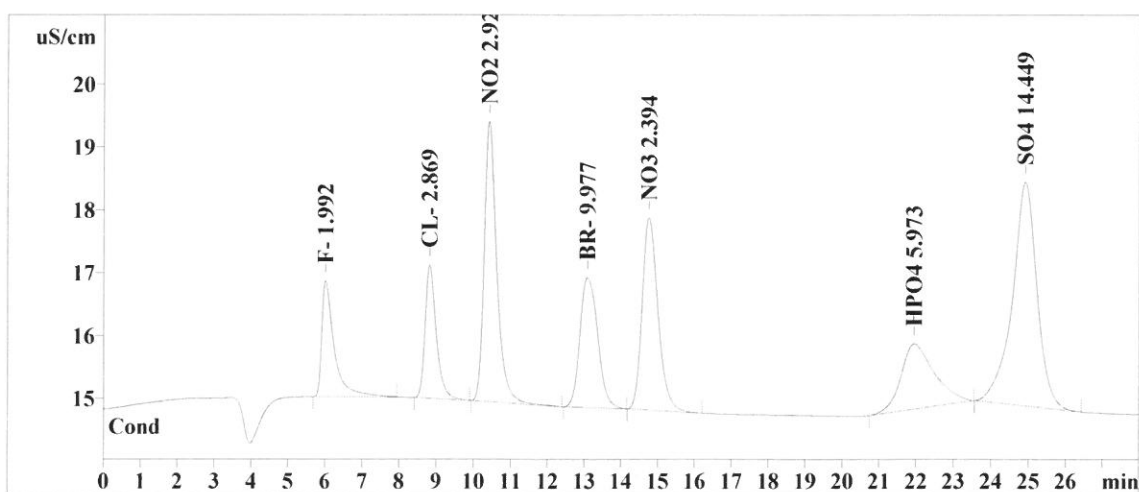
Ident: CCV
Analysis from: 9/20/2017 4:00:06 PM
File: _2017-09-20_

Last save: 9/20/2017 4:27:54 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59107

Last save: 9/20/2017 10:44:36 AM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	6.02	0.319	1.84	10.13	43.739	7.52	0.
2	8.82	0.308	2.12	11.68	44.572	7.66	0.
3	10.42	0.338	4.46	24.58	104.597	17.97	0.
4	13.08	0.523	2.07	11.39	69.208	11.89	0.
5	14.75	0.451	3.06	16.86	91.556	15.73	0.
6	21.94	0.927	1.04	5.72	64.759	11.13	0.
7	24.91	0.649	3.56	19.62	163.499	28.10	0.
7	28.00	0.502	18.14	99.99	581.929	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 5:25:54 PM
Printed by: wet

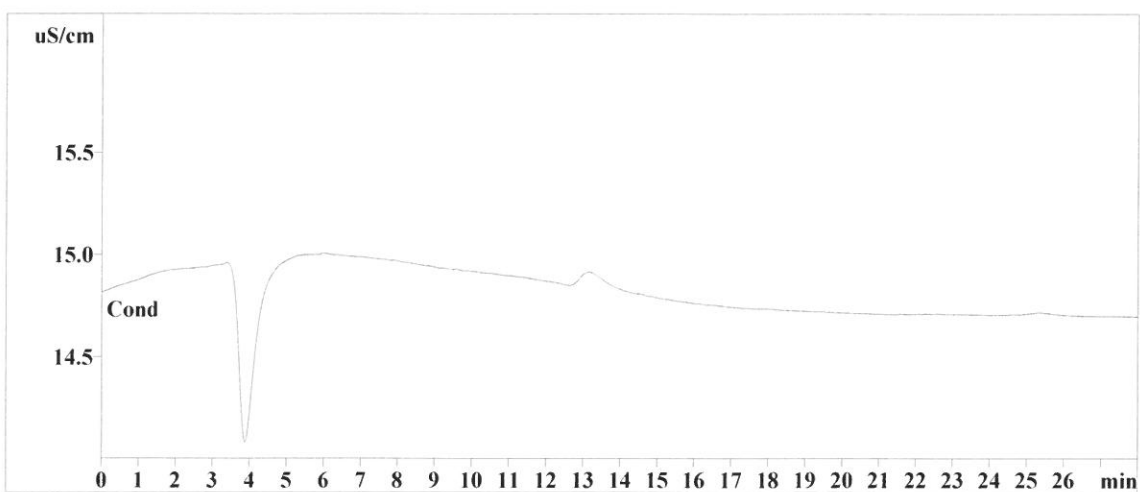
Ident: CCB
Analysis from: 9/20/2017 4:31:01 PM
File: _2017-09-20_

Last save: 9/20/2017 5:25:12 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59108

Last save: 9/20/2017 10:44:36 AM

SAMPLE:
: AK/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: 9/20/2017 5:46:08 PM
Printed by: wet

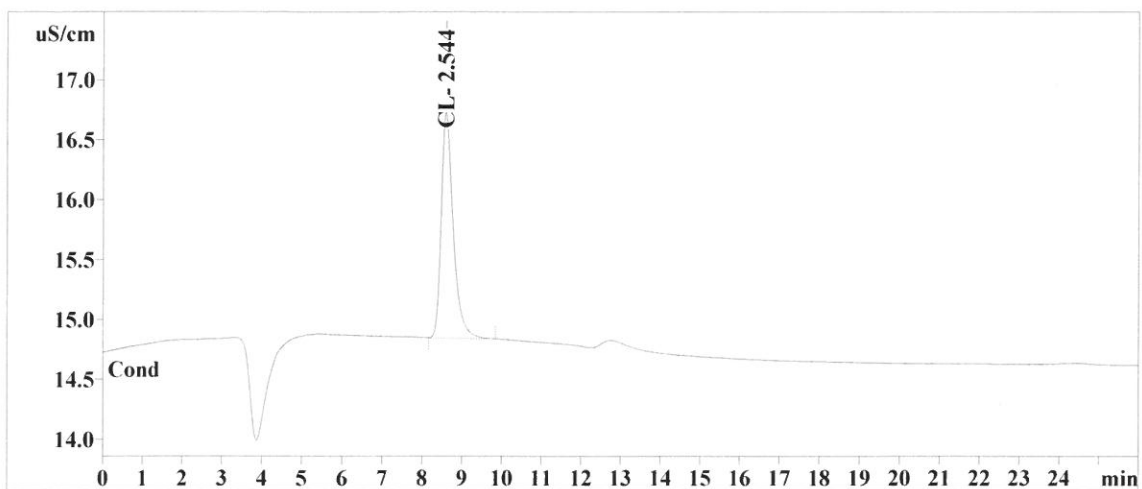
Ident: I5300-02DLX500
Analysis from: 9/19/2017 8:11:11 PM
File: _2017-09-19_

Last save: 9/20/2017 5:45:24 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59086

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.58	0.304	1.88	99.97	39.392	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	26.00	0.043	1.88	99.97	39.392	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 5:48:26 PM
Printed by: wet

Ident: I5300-03DLX200
Analysis from: 9/19/2017 8:40:06 PM
File: _2017-09-19_

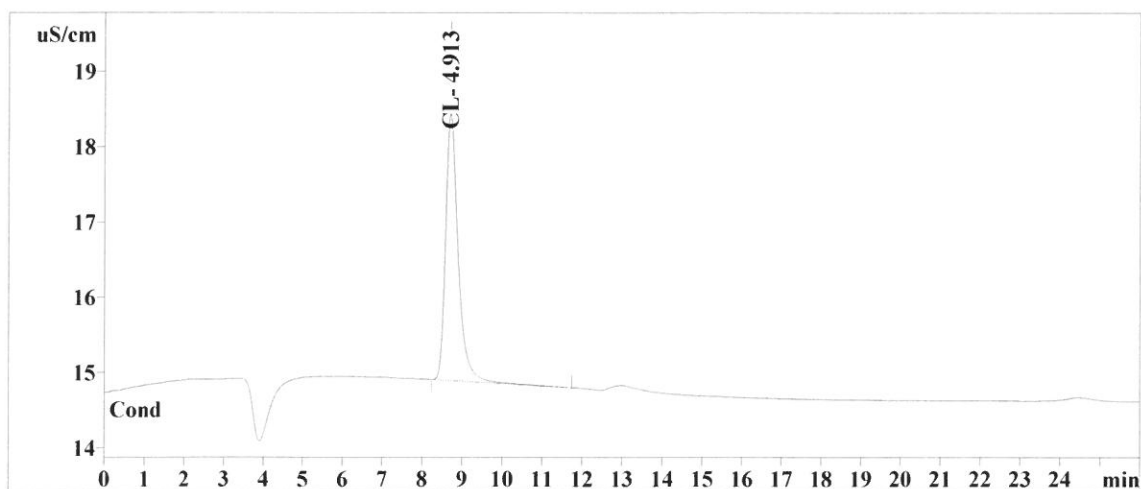
Last save: 9/20/2017 5:48:26 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59087

Last save: 9/18/2017 3:17:20 PM

SAMPLE:

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.70	0.309	3.55	100.01	77.071	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	26.00	0.044	3.55	100.01	77.071	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 5:49:56 PM
Printed by: wet

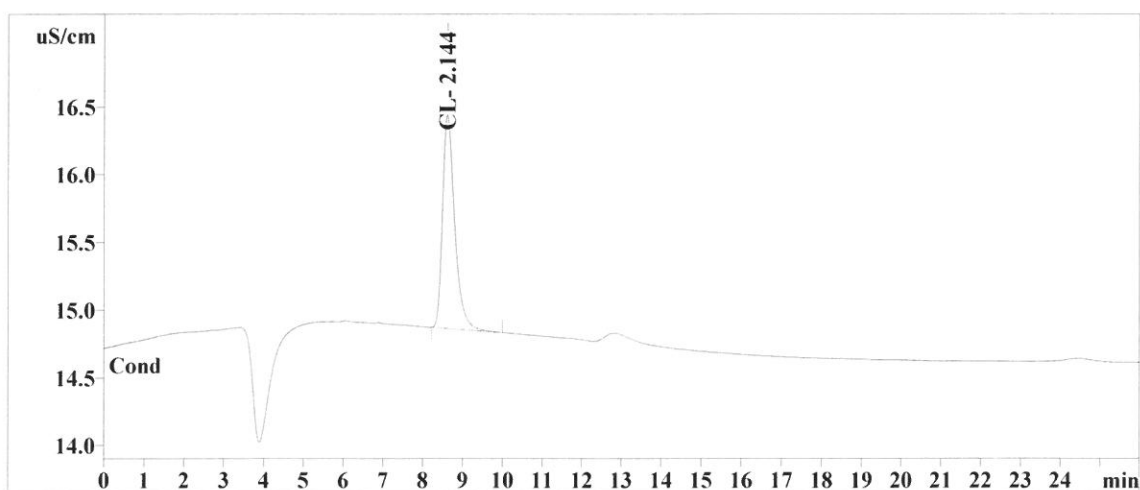
Ident: I5300-04DLX500
Analysis from: 9/19/2017 9:09:02 PM
File: _2017-09-19_

Last save: 9/20/2017 5:45:26 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59088

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.61	0.306	1.58	99.97	33.035	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	26.00	0.044	1.58	99.97	33.035	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 5:50:44 PM
Printed by: wet

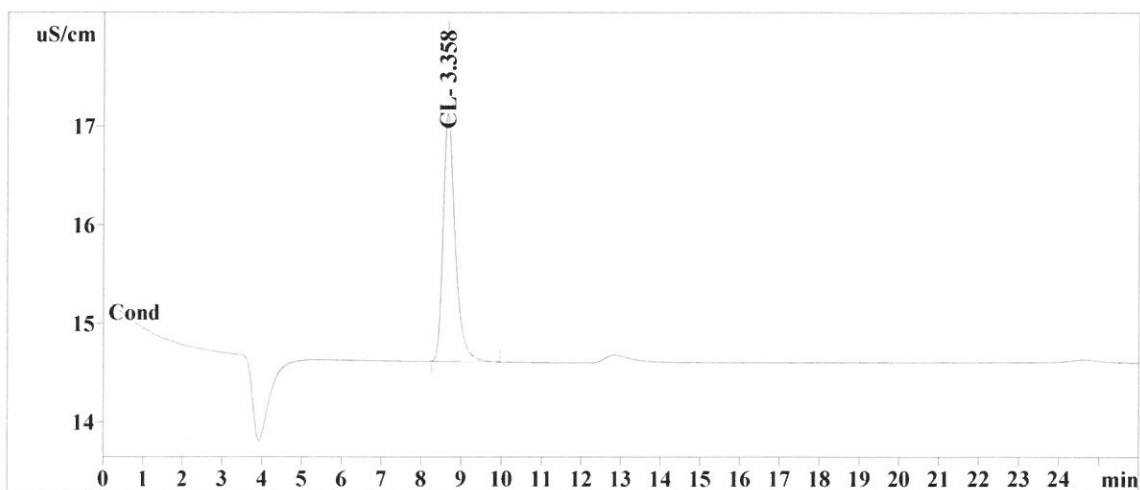
Ident: I5300-05DLX500
Analysis from: 9/19/2017 9:37:57 PM
File: _2017-09-19_

Last save: 9/20/2017 5:45:26 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59089

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.66	0.302	2.52	99.99	52.338	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	26.00	0.043	2.52	99.99	52.338	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 5:51:07 PM
Printed by: wet

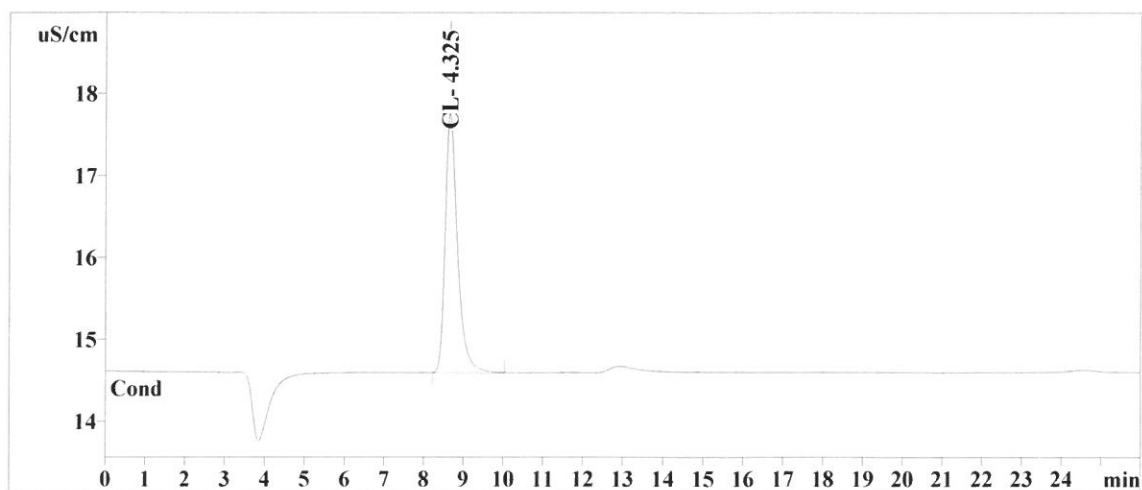
Ident: I5300-10DLX200
Analysis from: 9/19/2017 10:06:53 PM
File: _2017-09-19_

Last save: 9/20/2017 5:45:26 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59090

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	0.00	0.000	0.00	0.00	0.000	0.00	0.
2	8.65	0.310	3.16	100.00	67.711	100.00	0.
3	0.00	0.000	0.00	0.00	0.000	0.00	0.
4	0.00	0.000	0.00	0.00	0.000	0.00	0.
5	0.00	0.000	0.00	0.00	0.000	0.00	0.
6	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	0.00	0.000	0.00	0.00	0.000	0.00	0.
7	26.00	0.044	3.16	100.00	67.711	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 5:51:12 PM
Printed by: wet

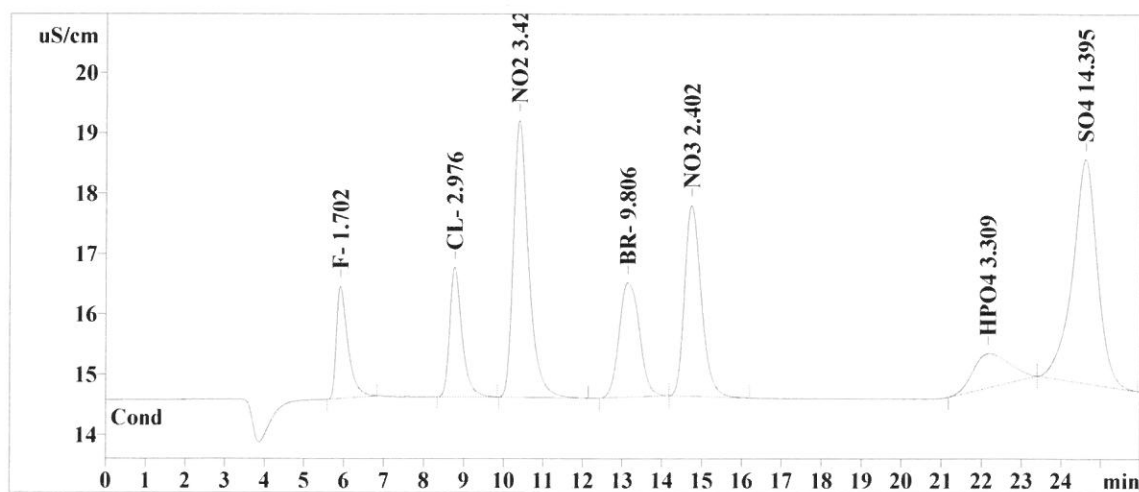
Ident: CCV
Analysis from: 9/19/2017 10:35:48 PM
File: _2017-09-19_

Last save: 9/19/2017 11:01:38 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59091

Last save: 9/18/2017 3:17:20 PM

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



Quantitation method: Custom

No	Retention min	Width/2 min	Height uS/cm	Height %	Area uS/cm*sec	Area %	
1	5.91	0.291	1.86	10.37	37.134	6.57	0.
2	8.76	0.315	2.15	11.98	46.274	8.19	0.
3	10.38	0.393	4.58	25.57	123.302	21.82	0.
4	13.13	0.565	1.90	10.58	68.057	12.04	0.
5	14.74	0.439	3.16	17.63	91.858	16.26	0.
6	22.14	1.017	0.57	3.17	35.556	6.29	0.
7	24.60	0.630	3.71	20.70	162.856	28.82	0.
7	26.00	0.521	17.92	99.99	565.038	100.00	0.

This report has been created by IC Net
METROHM LTD

Report date: 9/20/2017 5:51:22 PM
Printed by: wet

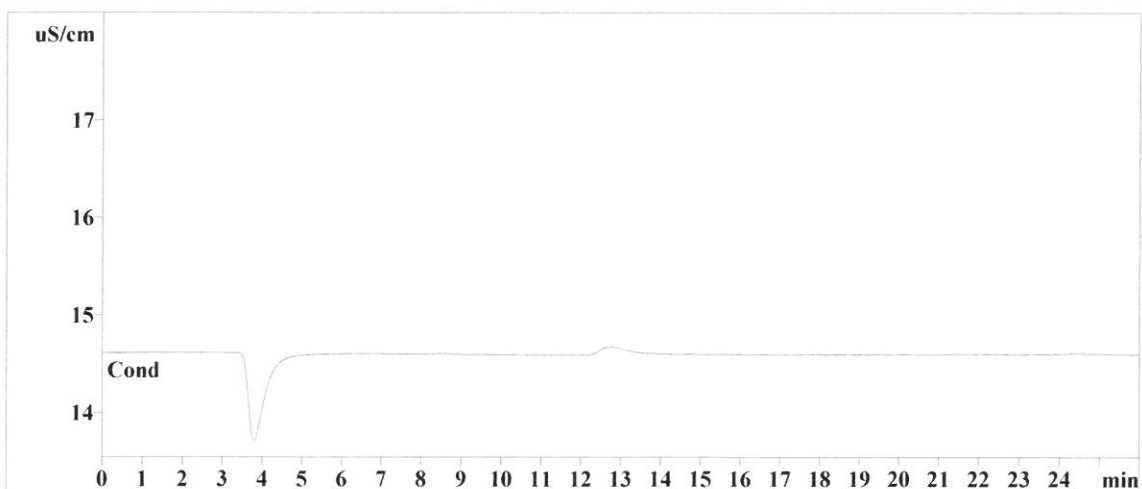
Ident: CCB
Analysis from: 9/19/2017 11:04:44 PM
File: _2017-09-19_

Last save: 9/20/2017 12:38:52 PM

Method: ANIONS 09-18-17.mtw
Run operator: wet
Analysis number: 59092

Last save: 9/18/2017 3:17:20 PM

SAMPLE:
: AK/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