

Clear table

IC-1 300.0

11-08-18 *AK*

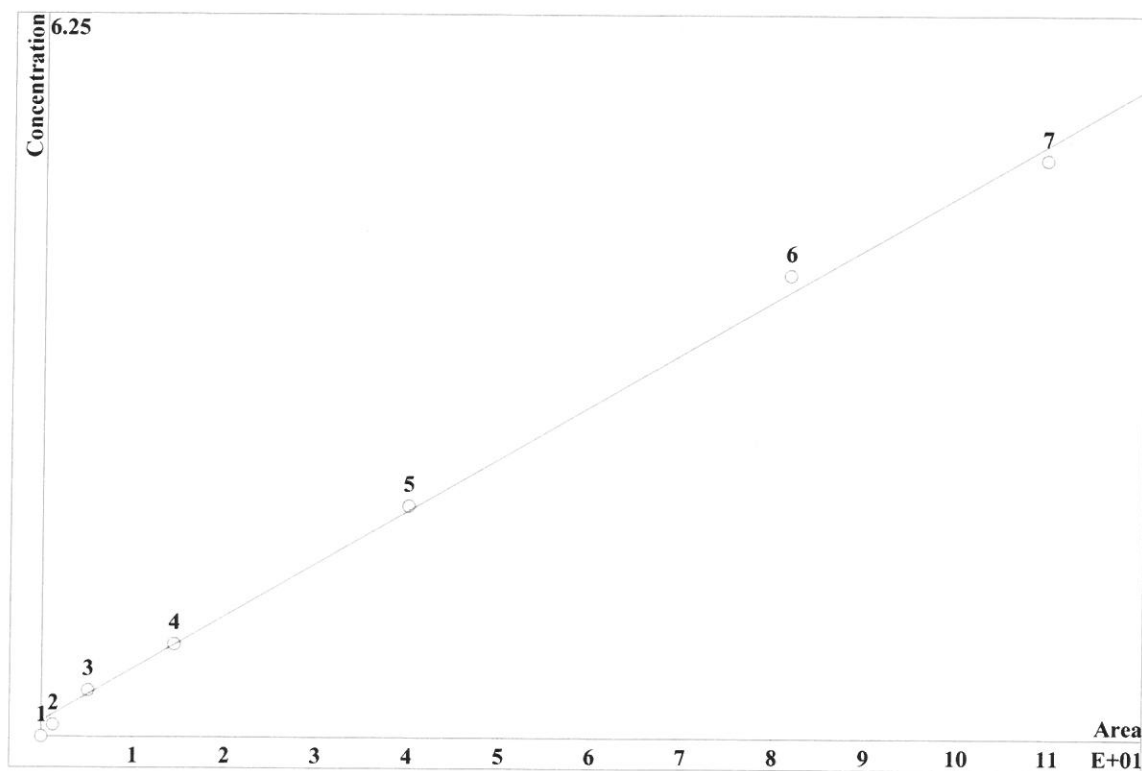
| ident       | concentrati<br>on F- | concentrati<br>on CL- | concentrati<br>on NO2 | concentrati<br>on BR- | concentrati<br>on NO3 | concentrati<br>on HPO4 | concentrati<br>on SO4 | file name   | date time     | Initial<br>wt/<br>Final | Analyst |
|-------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|-------------|---------------|-------------------------|---------|
| STD1        | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-11-05_ | 11/5/18 10:56 |                         | AK/AP   |
| STD2        | 0.1950               | 0.2450                | 0.2550                | 0.8370                | 0.2180                | -0.1650                | 1.4270                | 2018-11-05_ | 11/5/18 11:30 |                         | AK/AP   |
| STD3        | 0.3680               | 0.6290                | 0.6460                | 2.1250                | 0.5360                | 0.9910                 | 3.2790                | 2018-11-05_ | 11/5/18 12:00 |                         | AK/AP   |
| STD4        | 0.7980               | 1.2080                | 1.1890                | 3.9980                | 1.0100                | 2.3680                 | 6.0010                | 2018-11-05_ | 11/5/18 12:29 |                         | AK/AP   |
| STD5        | 1.9610               | 2.8400                | 2.8240                | 9.4190                | 2.3460                | 5.2940                 | 13.9250               | 2018-11-05_ | 11/5/18 12:59 |                         | AK/AP   |
| STD6        | 3.8550               | 5.8960                | 5.8980                | 19.6760               | 4.8620                | 9.8150                 | 29.0950               | 2018-11-05_ | 11/5/18 13:29 |                         | AK/AP   |
| STD7        | 5.1230               | 7.6330                | 7.6380                | 25.4450               | 6.4040                | 12.4460                | 38.5230               | 2018-11-05_ | 11/5/18 13:59 |                         | AK/AP   |
| ICV         | 1.9940               | 2.8800                | 2.9190                | 9.5440                | 2.3910                | 5.4040                 | 14.1480               | 2018-11-05_ | 11/5/18 15:29 |                         | AK/AP   |
| ICB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-11-05_ | 11/5/18 15:59 |                         | AK/AP   |
| CCV         | 2.0050               | 3.0240                | 2.9660                | 9.9280                | 2.4820                | 5.4110                 | 14.8060               | 2018-11-06_ | 11/6/18 10:49 |                         | AK/AP   |
| CCB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-11-06_ | 11/6/18 11:19 |                         | AK/AP   |
| LB99058BLW  | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-11-06_ | 11/6/18 11:49 |                         | AK/AP   |
| LB99058BSW  | 2.1540               | 2.9990                | 2.9190                | 9.7270                | 2.4330                | 5.9750                 | 14.5290               | 2018-11-06_ | 11/6/18 12:18 |                         | AK/AP   |
| J5830-01    | 0.0000               | 0.2080                | 0.0000                | 1.1330                | 0.0000                | 0.0000                 | 1.3000                | 2018-11-06_ | 11/6/18 12:48 |                         | AK/AP   |
| J5830-01DUP | 0.0000               | 0.1990                | 0.0000                | 1.1030                | 0.0000                | 0.0000                 | 1.2660                | 2018-11-06_ | 11/6/18 13:18 |                         | AK/AP   |
| J5830-01MS  | 2.1240               | 3.0890                | 2.9030                | 9.7480                | 2.4380                | 5.9230                 | 15.2060               | 2018-11-06_ | 11/6/18 13:48 |                         | AK/AP   |
| J5830-01MSD | 2.1710               | 3.0640                | 2.9180                | 9.7690                | 2.4670                | 6.0460                 | 15.3480               | 2018-11-06_ | 11/6/18 14:18 |                         | AK/AP   |
| J5836-01    | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-11-06_ | 11/6/18 15:18 |                         | AK/AP   |
| CCV         | 2.1040               | 2.9340                | 2.9330                | 9.7600                | 2.4460                | 5.8300                 | 14.6300               | 2018-11-06_ | 11/6/18 15:48 |                         | AK/AP   |
| CCB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2018-11-06_ | 11/6/18 16:18 |                         | AK/AP   |

CALIBRATION OF COMPONENT F-

IC-1 Cal

Method: ANIONS 11-05-18.mtw  
Equation:  $Q = 0.910725 \cdot A + 2.74464$   
RSD: 5.343 %  
Correlation coefficient: 0.998834

11-05-18 AL



K3 = 0 K2 = 0 K1 = 0.910725 K0 = 2.74464

Base: Area

Ref.channel: Cond

ISTD:

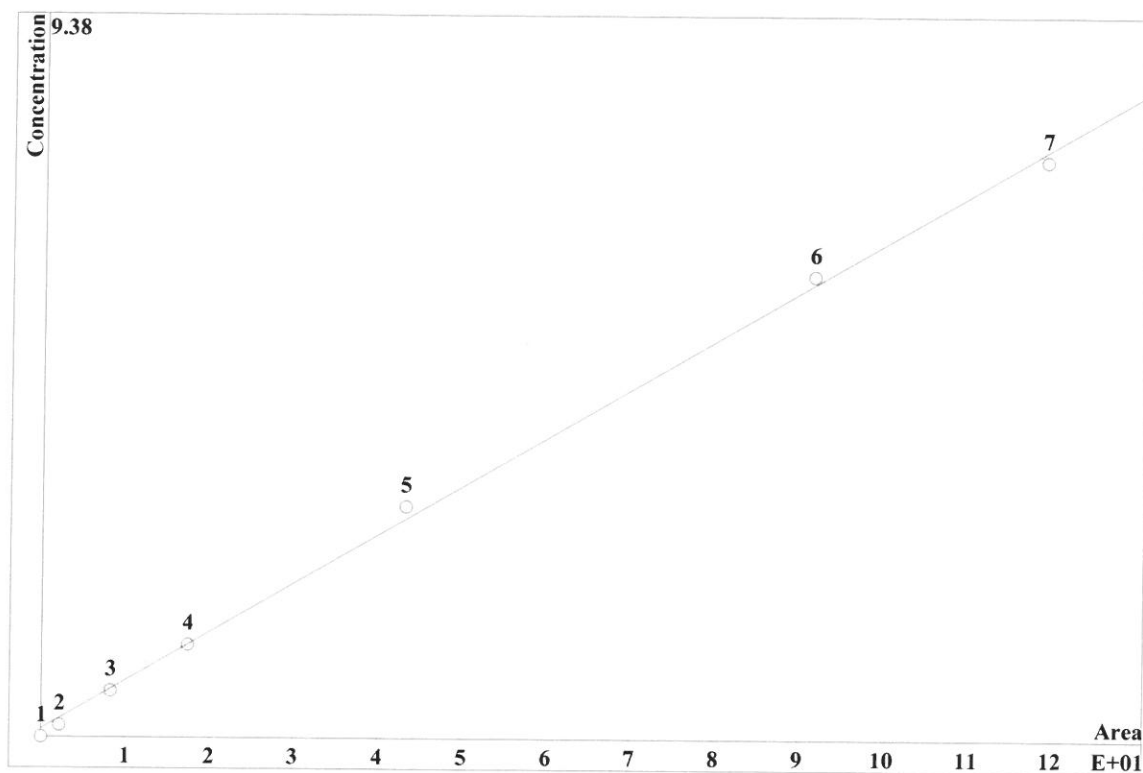
Formula: Linear

Weight: 1

| Level | Height  | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|---------|-------|-------|---------|-----------|------|------|
| 1     | 0       |       | 0     | 0       | 0         |      | No   |
| 2     | 0.03491 | 1.278 | 0.1   | 20      | 5.913     | Yes  |      |
| 3     | 0.1288  | 5.07  | 0.4   | 20      | 5.913     | Yes  |      |
| 4     | 0.3356  | 14.5  | 0.8   | 20      | 5.913     | Yes  |      |
| 5     | 0.8872  | 40.05 | 2     | 20      | 5.913     | Yes  |      |
| 6     | 1.905   | 81.64 | 4     | 20      | 5.913     | Yes  |      |
| 7     | 2.626   | 109.5 | 5     | 20      | 5.913     | Yes  |      |

CALIBRATION OF COMPONENT CL-

Method: ANIONS 11-05-18.mtw  
 Equation:  $Q = 1.26259 \cdot A + 2.18911$   
 RSD: 4.116 %  
 Correlation coefficient: 0.999308



K3 = 0      K2 = 0      K1 = 1.26259      K0 = 2.18911

Base: Area

Ref.channel: Cond

ISTD:

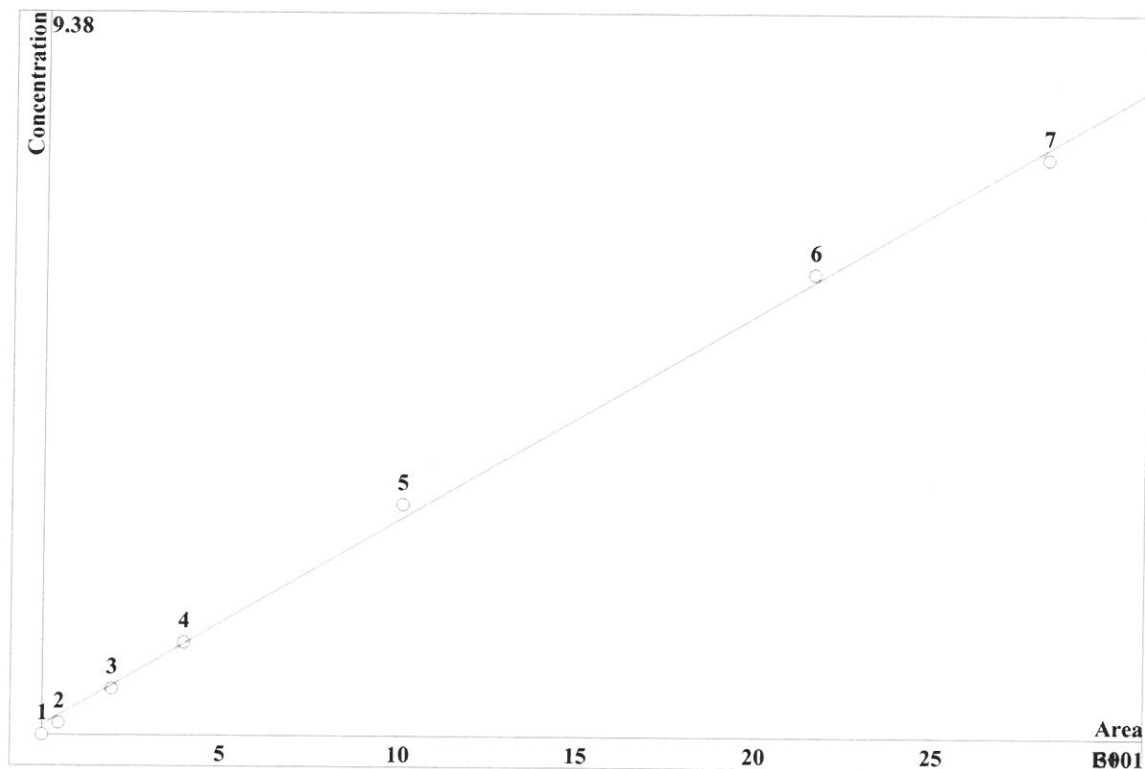
Formula: Linear

Weight: 1

| Level | Height  | Area | Conc. | Vol/Dil | Retention | Used  | File |
|-------|---------|------|-------|---------|-----------|-------|------|
| 1     | 0       |      | 0     | 0       | 0         |       | No   |
| 2     | 0.09762 |      | 2.14  | 0.15    | 20        | 8.858 | Yes  |
| 3     | 0.4015  |      | 8.225 | 0.6     | 20        | 8.858 | Yes  |
| 4     | 0.8533  |      | 17.4  | 1.2     | 20        | 8.858 | Yes  |
| 5     | 2.189   |      | 43.25 | 3       | 20        | 8.858 | Yes  |
| 6     | 4.64    |      | 91.66 | 6       | 20        | 8.858 | Yes  |
| 7     | 6.218   |      | 119.2 | 7.5     | 20        | 8.858 | Yes  |

CALIBRATION OF COMPONENT NO2

Method: ANIONS 11-05-18.mtw  
 Equation:  $Q = 0.53345 \cdot A + 2.65095$   
 RSD: 4.411 %  
 Correlation coefficient: 0.999206



K3 = 0      K2 = 0      K1 = 0.53345      K0 = 2.65095

Base: Area

Ref.channel: Cond

ISTD:

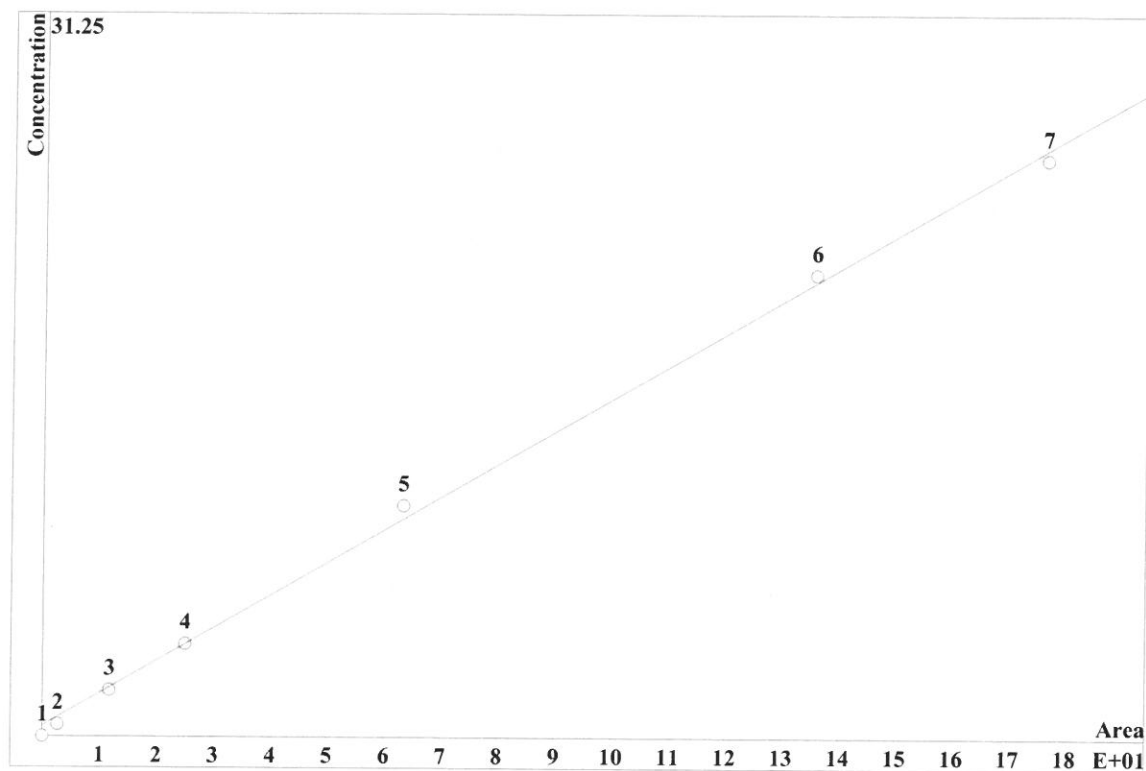
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      | 0     | 0     | 0       | 0         |      | No   |
| 2     | 0.1883 | 4.587 | 0.15  | 20      | 10.65     |      | Yes  |
| 3     | 0.7949 | 19.24 | 0.6   | 20      | 10.65     |      | Yes  |
| 4     | 1.699  | 39.61 | 1.2   | 20      | 10.65     |      | Yes  |
| 5     | 4.427  | 100.9 | 3     | 20      | 10.65     |      | Yes  |
| 6     | 9.414  | 216.2 | 6     | 20      | 10.65     |      | Yes  |
| 7     | 12.49  | 281.4 | 7.5   | 20      | 10.65     |      | Yes  |

## CALIBRATION OF COMPONENT BR-

Method: ANIONS 11-05-18.mtw  
 Equation:  $Q = 2.83242 \cdot A + 9.21516$   
 RSD: 4.282 %  
 Correlation coefficient: 0.999252



K3 = 0      K2 = 0      K1 = 2.83242      K0 = 9.21516

Base: Area

Ref.channel: Cond

ISTD:

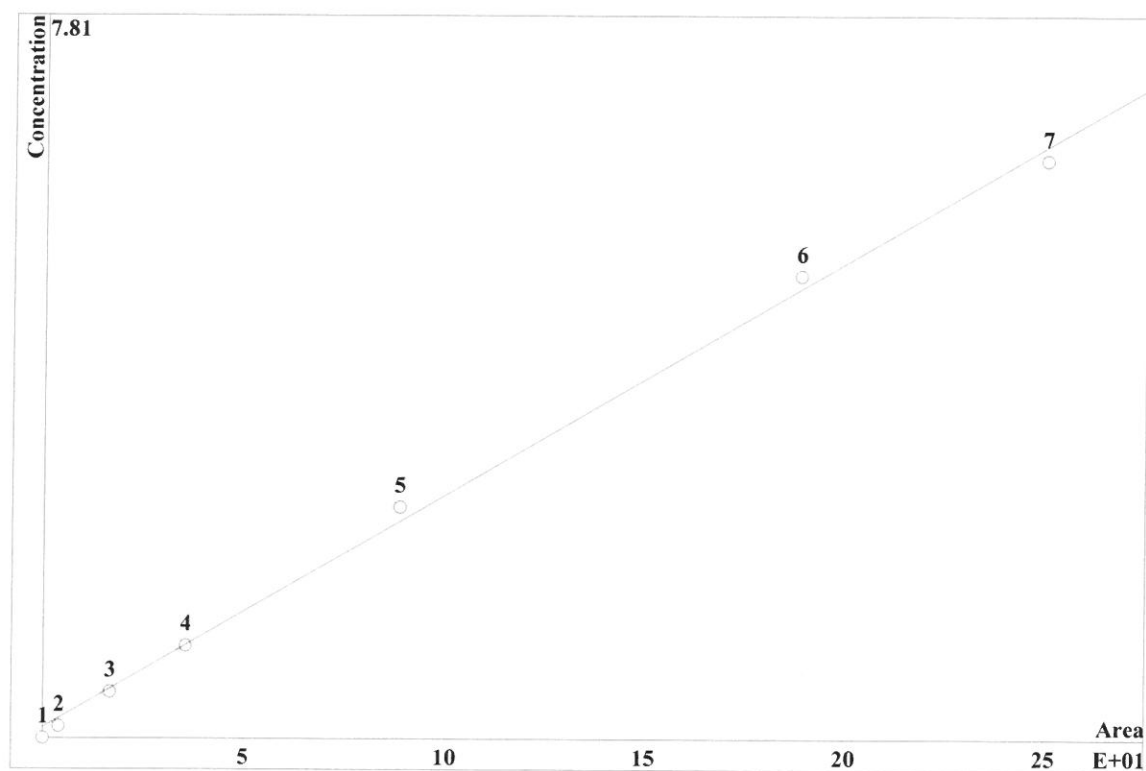
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      | 0     | 0     | 0       | 0         |      | No   |
| 2     | 0.1037 | 2.66  | 0.5   | 20      | 13.72     |      | Yes  |
| 3     | 0.4472 | 11.75 | 2     | 20      | 13.72     |      | Yes  |
| 4     | 0.9618 | 24.98 | 4     | 20      | 13.72     |      | Yes  |
| 5     | 2.509  | 63.25 | 10    | 20      | 13.72     |      | Yes  |
| 6     | 5.313  | 135.7 | 20    | 20      | 13.72     |      | Yes  |
| 7     | 6.99   | 176.4 | 25    | 20      | 13.72     |      | Yes  |

## CALIBRATION OF COMPONENT NO3

Method: ANIONS 11-05-18.mtw  
 Equation:  $Q = 0.502563 \cdot A + 2.35437$   
 RSD: 5.394 %  
 Correlation coefficient: 0.998812



K3 = 0      K2 = 0      K1 = 0.502563      K0 = 2.35437

Base: Area

Ref.channel: Cond

ISTD:

Formula: Linear

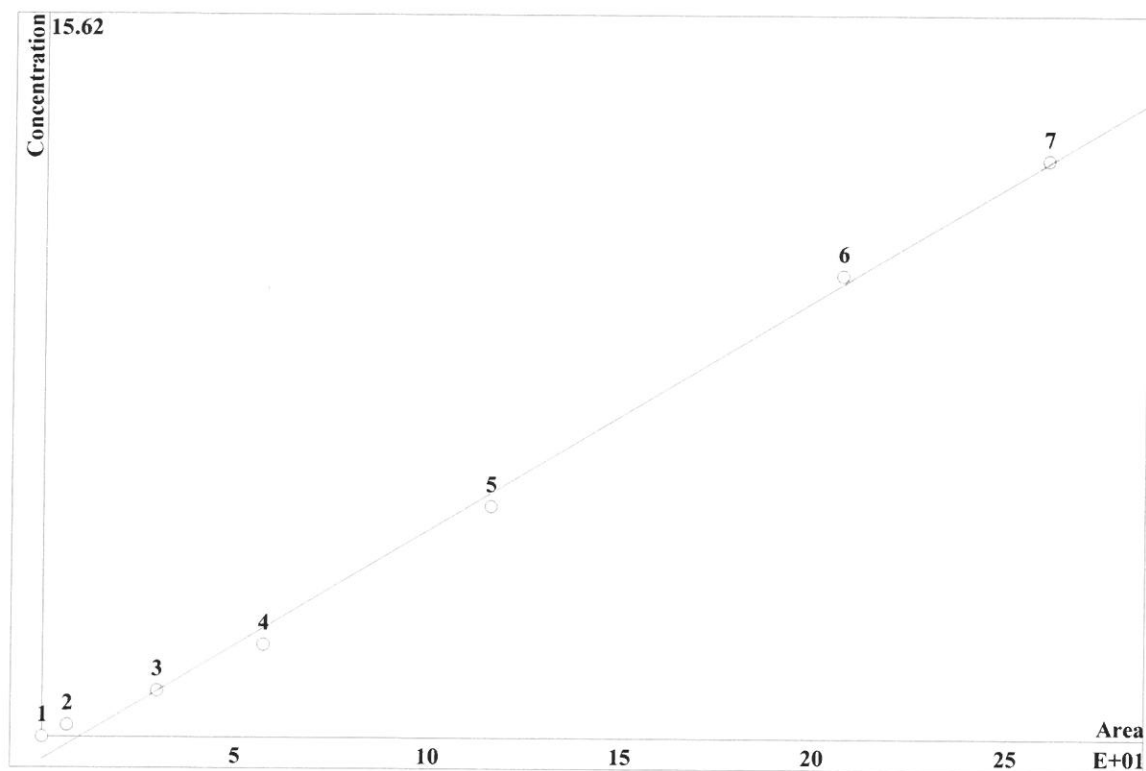
Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |     |
|-------|--------|-------|-------|---------|-----------|------|------|-----|
| 1     | 0      | 0     | 0     | 0       | 0         |      |      | No  |
| 2     | 0.1244 | 3.981 | 0.125 | 20      | 15.65     |      |      | Yes |
| 3     | 0.5276 | 16.63 | 0.5   | 20      | 15.65     |      |      | Yes |
| 4     | 1.133  | 35.53 | 1     | 20      | 15.65     |      |      | Yes |
| 5     | 2.944  | 88.66 | 2.5   | 20      | 15.65     |      |      | Yes |
| 6     | 6.348  | 188.8 | 5     | 20      | 15.65     |      |      | Yes |
| 7     | 8.569  | 250.2 | 6.25  | 20      | 15.65     |      |      | Yes |

±%\$

## CALIBRATION OF COMPONENT HPO4

Method: ANIONS 11-05-18.mtw  
 Equation:  $Q = 0.994149 \cdot A - 9.65033$   
 RSD: 6.409 %  
 Correlation coefficient: 0.998322



K3 = 0      K2 = 0      K1 = 0.994149      K0 = -9.65033

Base: Area

Ref.channel: Cond

ISTD:

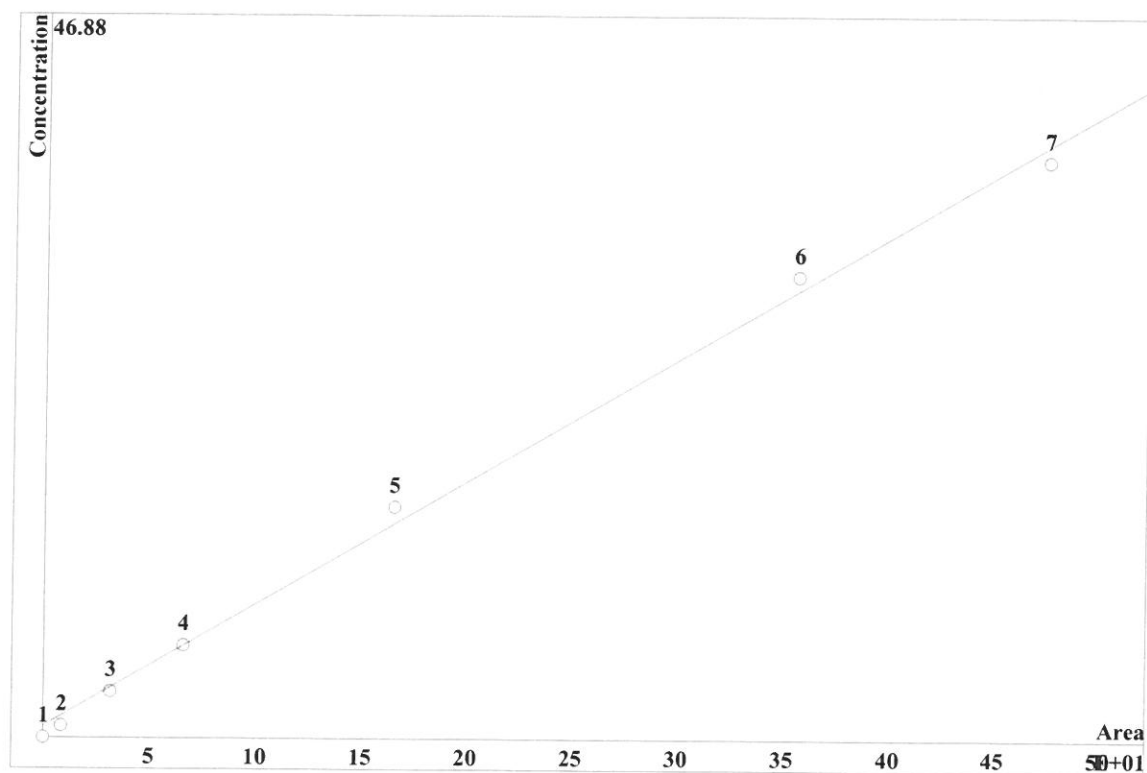
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      |       | 0     | 0       | 0         |      | No   |
| 2     | 0.1266 | 6.396 | 0.25  | 20      | 21.48     | Yes  |      |
| 3     | 0.6376 | 29.64 | 1     | 20      | 21.48     | Yes  |      |
| 4     | 1.284  | 57.35 | 2     | 20      | 21.48     | Yes  |      |
| 5     | 2.757  | 116.2 | 5     | 20      | 21.48     | Yes  |      |
| 6     | 5.157  | 207.2 | 10    | 20      | 21.48     | Yes  |      |
| 7     | 6.707  | 260.1 | 12.5  | 20      | 21.48     | Yes  |      |

## CALIBRATION OF COMPONENT SO4

Method: ANIONS 11-05-18.mtw  
 Equation:  $Q = 1.5916 \cdot A + 14.9633$   
 RSD: 6.134 %  
 Correlation coefficient: 0.998463



K3 = 0      K2 = 0      K1 = 1.5916      K0 = 14.9633

Base: Area

Ref.channel: Cond

ISTD:

Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used  | File |     |
|-------|--------|-------|-------|---------|-----------|-------|------|-----|
| 1     | 0      |       | 0     | 0       | 0         |       |      | No  |
| 2     | 0.22   | 8.536 |       | 0.75    | 20        | 25.17 |      | Yes |
| 3     | 0.8481 | 31.8  |       | 3       | 20        | 25.17 |      | Yes |
| 4     | 1.791  | 66    |       | 6       | 20        | 25.17 |      | Yes |
| 5     | 4.626  | 165.6 |       | 15      | 20        | 25.17 |      | Yes |
| 6     | 10.06  | 356.2 |       | 30      | 20        | 25.17 |      | Yes |
| 7     | 13.53  | 474.7 |       | 37.5    | 20        | 25.17 |      | Yes |

Report date: 11/6/2018 9:20:13 AM  
Printed by: wet

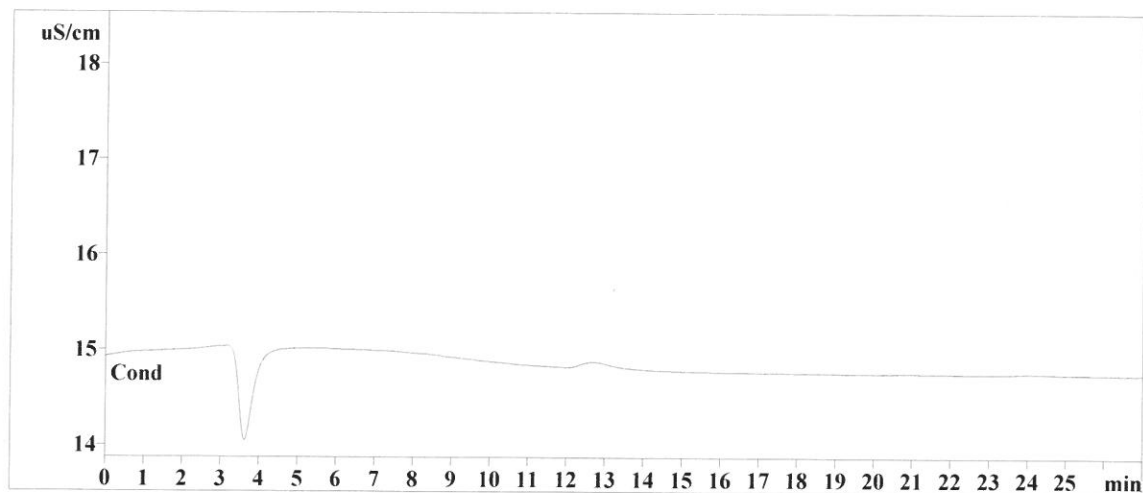
Ident: STD1  
Analysis from: 11/5/2018 10:56:36 AM  
File: \_2018-11-05\_

Last save: 11/5/2018 11:23:26 AM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64791

Last save: 11/5/2018 9:58:50 AM

SAMPLE:  
: AK/AP  
Vial number: 2  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net  
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Report date: 11/6/2018 9:20:23 AM  
Printed by: wet

Ident: STD2  
Analysis from: 11/5/2018 11:30:05 AM  
File: \_2018-11-05\_

Last save: 11/5/2018 11:56:54 AM

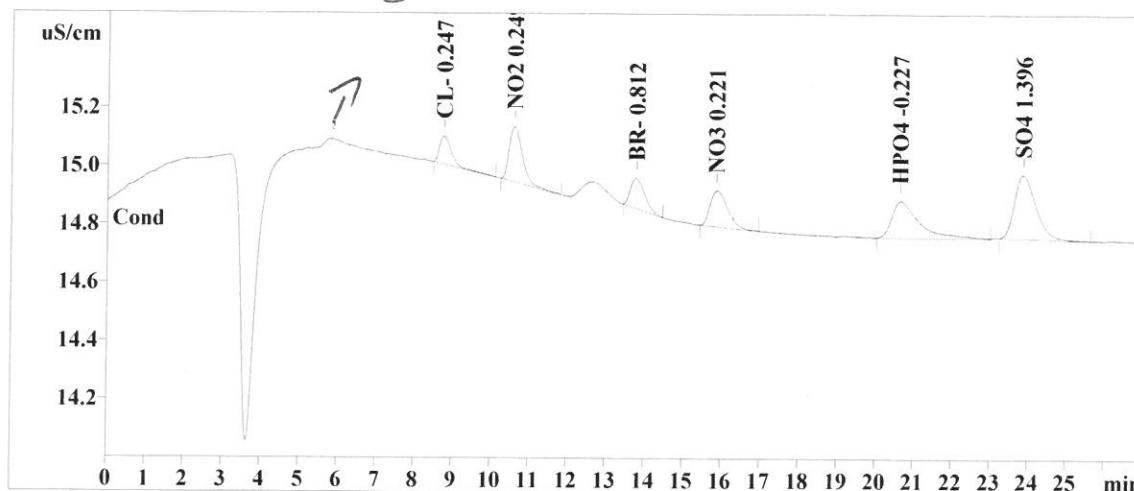
Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64792

Last save: 11/5/2018 11:23:26 AM

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

AR  
11-06-18

Before Peak was not integrated by software.



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 2  | 8.76             | 0.327          | 0.10            | 11.24       | 2.140             | 7.56      | 0. |
| 3  | 10.60            | 0.373          | 0.19            | 21.81       | 4.587             | 16.21     | 0. |
| 4  | 13.78            | 0.412          | 0.10            | 11.91       | 2.660             | 9.40      | 0. |
| 5  | 15.88            | 0.503          | 0.12            | 14.37       | 3.981             | 14.07     | 0. |
| 6  | 20.64            | 0.695          | 0.13            | 14.63       | 6.396             | 22.60     | 0. |
| 7  | 23.85            | 0.590          | 0.22            | 25.49       | 8.536             | 30.16     | 0. |
| 7  | 27.00            | 0.414          | 0.86            | 99.46       | 28.299            | 100.00    | 0. |

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METROHM LTD

Report date: 11/6/2018 9:21:15 AM  
Printed by: wet

Ident: STD2  
Analysis from: 11/5/2018 11:30:05 AM  
File: 2018-11-05\_  
Modified! Manual peaks!  
Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64792

Last save: 11/5/2018 11:56:54 AM

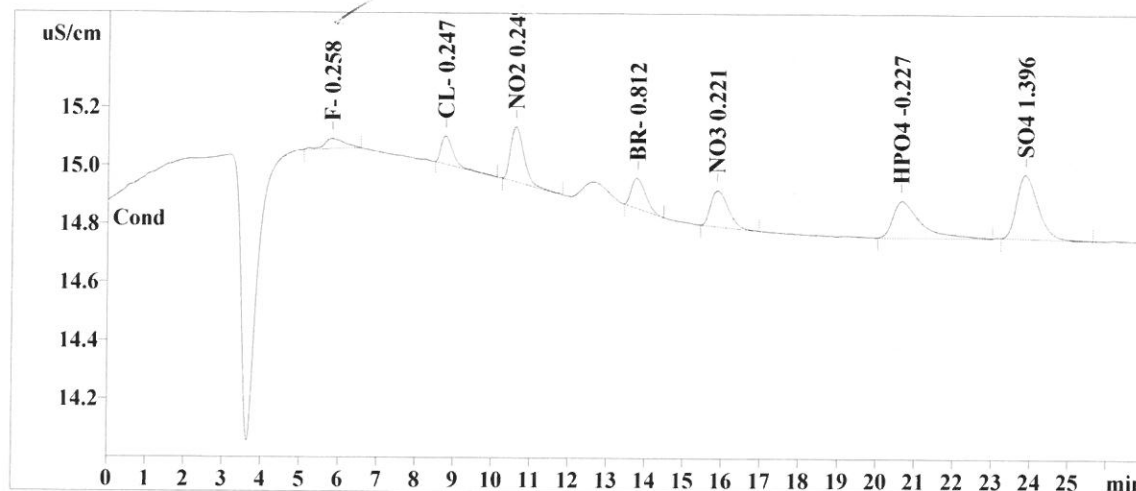
Last save: 11/5/2018 11:23:26 AM

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

AK/AP

After

11-06-18



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.78             | 0.539          | 0.03            | 3.89        | 1.278             | 4.32      | 0. |
| 2  | 8.76             | 0.327          | 0.10            | 10.81       | 2.140             | 7.23      | 0. |
| 3  | 10.60            | 0.373          | 0.19            | 20.96       | 4.587             | 15.51     | 0. |
| 4  | 13.78            | 0.412          | 0.10            | 11.45       | 2.660             | 8.99      | 0. |
| 5  | 15.88            | 0.503          | 0.12            | 13.81       | 3.981             | 13.46     | 0. |
| 6  | 20.64            | 0.695          | 0.13            | 14.06       | 6.396             | 21.63     | 0. |
| 7  | 23.85            | 0.590          | 0.22            | 24.50       | 8.536             | 28.86     | 0. |
| 7  | 27.00            | 0.491          | 0.89            | 99.47       | 29.577            | 100.00    | 0. |

This report has been created by IC Net  
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Report date: 11/6/2018 9:22:24 AM  
Printed by: wet

Ident: STD3  
Analysis from: 11/5/2018 12:00:00 PM  
File: \_2018-11-05\_

Last save: 11/6/2018 9:21:50 AM

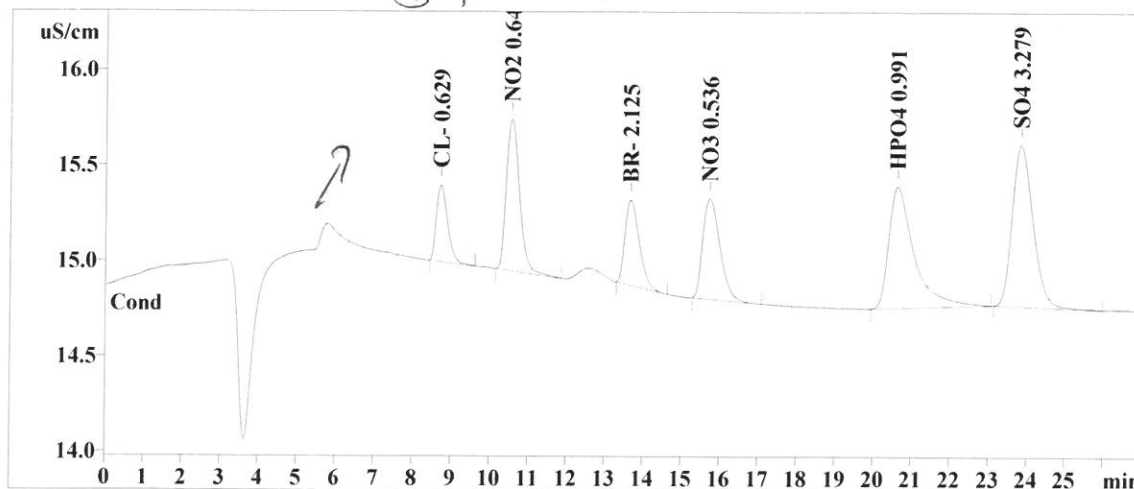
Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64793

Last save: 11/5/2018 9:58:50 AM

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

AR  
11-06-18

before peak was not integrated by software.



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 2  | 8.72             | 0.319          | 0.40            | 10.95       | 8.225             | 7.01      | 0. |
| 3  | 10.55            | 0.370          | 0.79            | 21.72       | 19.244            | 16.41     | 0. |
| 4  | 13.67            | 0.411          | 0.45            | 12.23       | 11.753            | 10.02     | 0. |
| 5  | 15.73            | 0.491          | 0.53            | 14.41       | 16.627            | 14.18     | 0. |
| 6  | 20.62            | 0.642          | 0.64            | 17.41       | 29.644            | 25.27     | 0. |
| 7  | 23.83            | 0.573          | 0.85            | 23.18       | 31.797            | 27.11     | 0. |
| 7  | 27.00            | 0.401          | 3.65            | 99.90       | 117.290           | 100.00    | 0. |

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Report date: 11/6/2018 9:23:11 AM  
 Printed by: wet

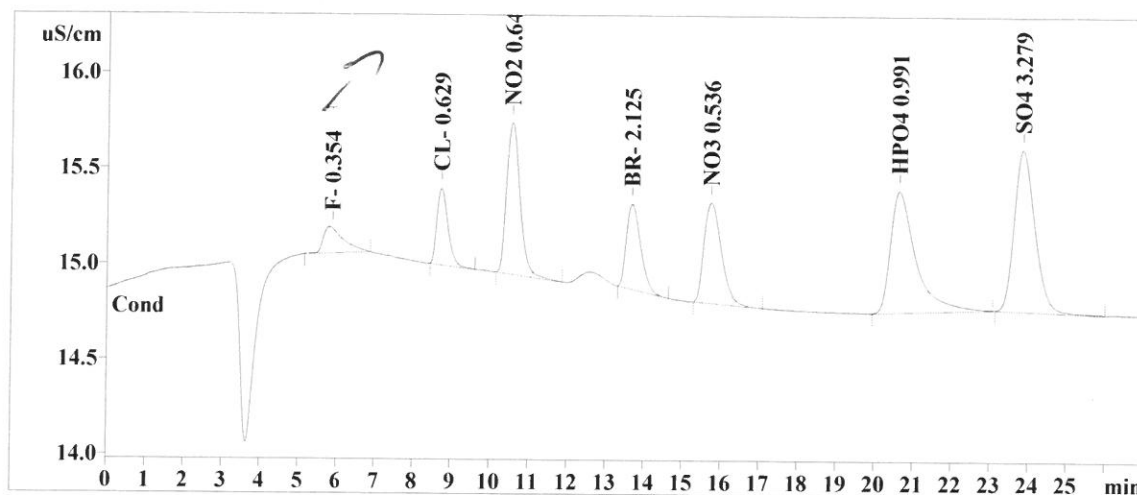
Ident: STD3  
 Analysis from: 11/5/2018 12:00:00 PM  
 File: 2018-11-05\_  
 Modified! Manual peaks!  
 Method: ANIONS 11-05-18.mtw  
 Run operator: wet  
 Analysis number: 64793

Last save: 11/6/2018 9:21:50 AM

Last save: 11/5/2018 9:58:50 AM

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

After  
 11-06-18



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.87             | 0.578          | 0.13            | 3.41        | 5.070             | 4.14      | 0. |
| 2  | 8.72             | 0.319          | 0.40            | 10.58       | 8.225             | 6.72      | 0. |
| 3  | 10.55            | 0.370          | 0.79            | 20.98       | 19.244            | 15.73     | 0. |
| 4  | 13.67            | 0.411          | 0.45            | 11.81       | 11.753            | 9.60      | 0. |
| 5  | 15.73            | 0.491          | 0.53            | 13.92       | 16.627            | 13.59     | 0. |
| 6  | 20.62            | 0.642          | 0.64            | 16.82       | 29.644            | 24.23     | 0. |
| 7  | 23.83            | 0.573          | 0.85            | 22.39       | 31.797            | 25.99     | 0. |
| 7  | 27.00            | 0.484          | 3.78            | 99.92       | 122.360           | 100.00    | 0. |

This report has been created by IC Net  
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Report date: 11/6/2018 9:27:15 AM  
Printed by: wet

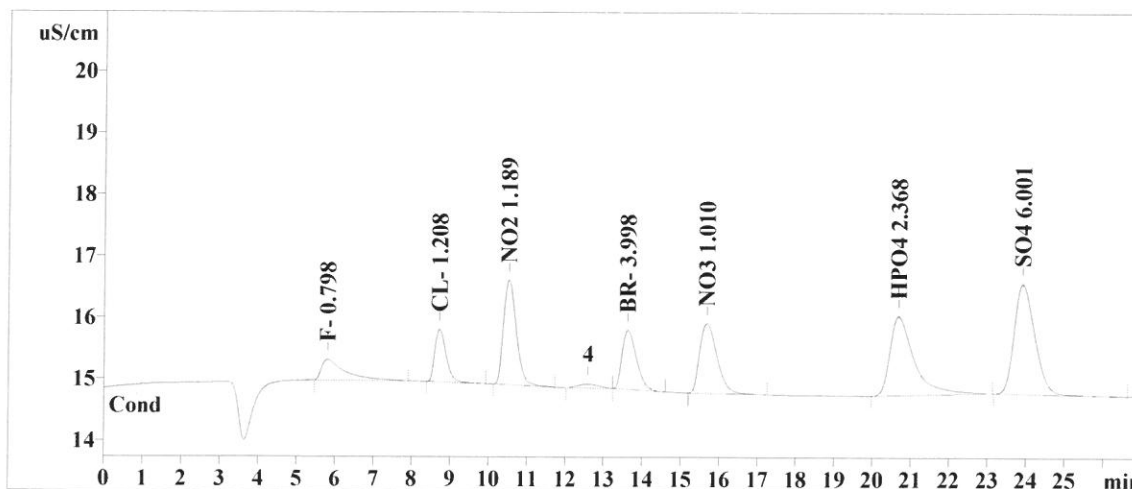
Ident: STD4  
Analysis from: 11/5/2018 12:29:56 PM  
File: \_2018-11-05\_

Last save: 11/6/2018 9:23:32 AM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64794

Last save: 11/5/2018 9:58:50 AM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.80             | 0.569          | 0.33            | 4.12        | 14.502            | 5.62      | 0. |
| 2  | 8.72             | 0.313          | 0.85            | 10.50       | 17.397            | 6.75      | 0. |
| 3  | 10.52            | 0.359          | 1.70            | 20.90       | 39.607            | 15.36     | 0. |
| 4  | 13.63            | 0.405          | 0.96            | 11.84       | 24.979            | 9.69      | 0. |
| 5  | 15.67            | 0.485          | 1.13            | 13.95       | 35.529            | 13.78     | 0. |
| 6  | 20.68            | 0.615          | 1.28            | 15.81       | 57.353            | 22.24     | 0. |
| 7  | 23.91            | 0.567          | 1.79            | 22.03       | 66.001            | 25.60     | 0. |
| 7  | 27.00            | 0.473          | 8.06            | 99.15       | 255.370           | 99.03     | 0. |

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Report date: 11/6/2018 9:27:26 AM  
Printed by: wet

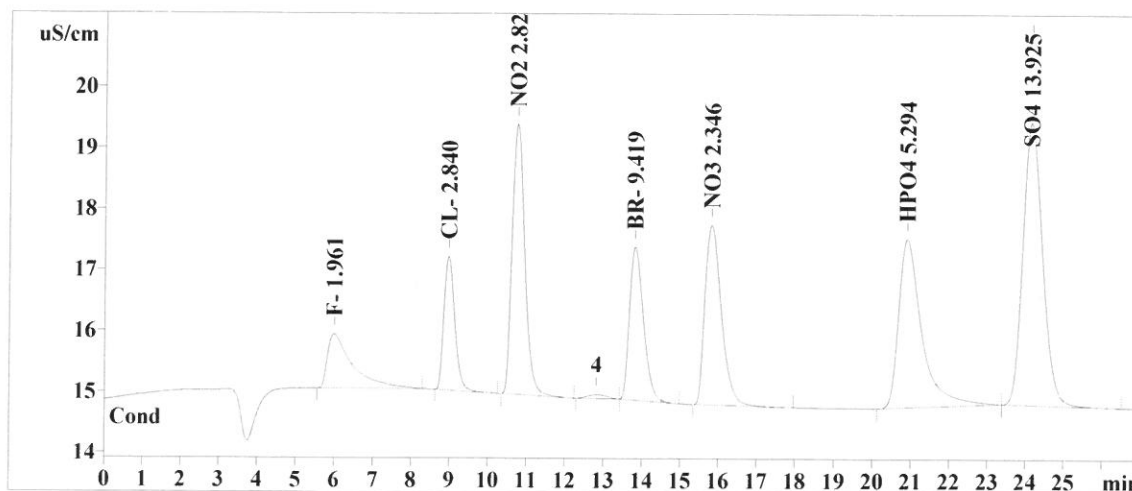
Ident: STD5  
Analysis from: 11/5/2018 12:59:51 PM  
File: \_2018-11-05\_

Last save: 11/6/2018 9:23:32 AM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64795

Last save: 11/5/2018 9:58:50 AM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 6.00             | 0.596          | 0.89            | 4.35        | 40.047            | 6.46      | 0. |
| 2  | 8.96             | 0.304          | 2.19            | 10.73       | 43.248            | 6.97      | 0. |
| 3  | 10.75            | 0.351          | 4.43            | 21.70       | 100.915           | 16.27     | 0. |
| 4  | 13.81            | 0.390          | 2.51            | 12.30       | 63.253            | 10.20     | 0. |
| 5  | 15.81            | 0.464          | 2.94            | 14.43       | 88.664            | 14.29     | 0. |
| 6  | 20.88            | 0.585          | 2.76            | 13.51       | 116.218           | 18.74     | 0. |
| 7  | 24.13            | 0.549          | 4.63            | 22.67       | 165.586           | 26.70     | 0. |
| 7  | 27.00            | 0.463          | 20.34           | 99.67       | 617.932           | 99.62     | 0. |

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Report date: 11/6/2018 9:27:38 AM  
 Printed by: wet

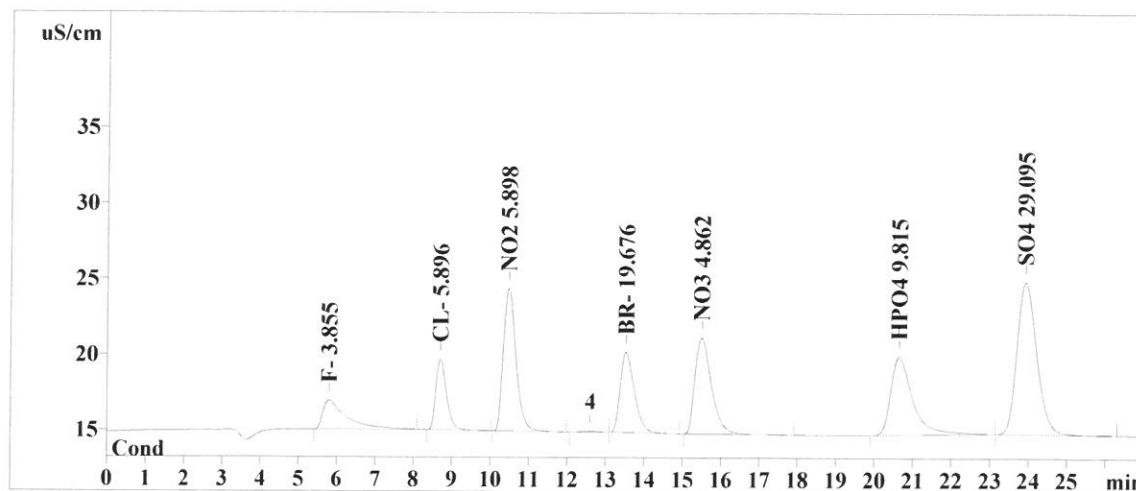
Ident: STD6  
 Analysis from: 11/5/2018 1:29:46 PM  
 File: \_2018-11-05\_

Last save: 11/6/2018 9:23:34 AM

Method: ANIONS 11-05-18.mtw  
 Run operator: wet  
 Analysis number: 64796

Last save: 11/5/2018 9:58:50 AM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.79             | 0.565          | 1.90            | 4.44        | 81.638            | 6.38      | 0. |
| 2  | 8.69             | 0.303          | 4.64            | 10.82       | 91.664            | 7.17      | 0. |
| 3  | 10.47            | 0.352          | 9.41            | 21.94       | 216.157           | 16.90     | 0. |
| 4  | 13.52            | 0.393          | 5.31            | 12.38       | 135.678           | 10.61     | 0. |
| 5  | 15.49            | 0.455          | 6.35            | 14.80       | 188.802           | 14.76     | 0. |
| 6  | 20.63            | 0.564          | 5.16            | 12.02       | 207.160           | 16.19     | 0. |
| 7  | 23.90            | 0.542          | 10.06           | 23.46       | 356.202           | 27.84     | 0. |
| 7  | 27.00            | 0.453          | 42.84           | 99.86       | 1277.301          | 99.85     | 0. |

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Report date: 11/6/2018 9:28:04 AM  
 Printed by: wet

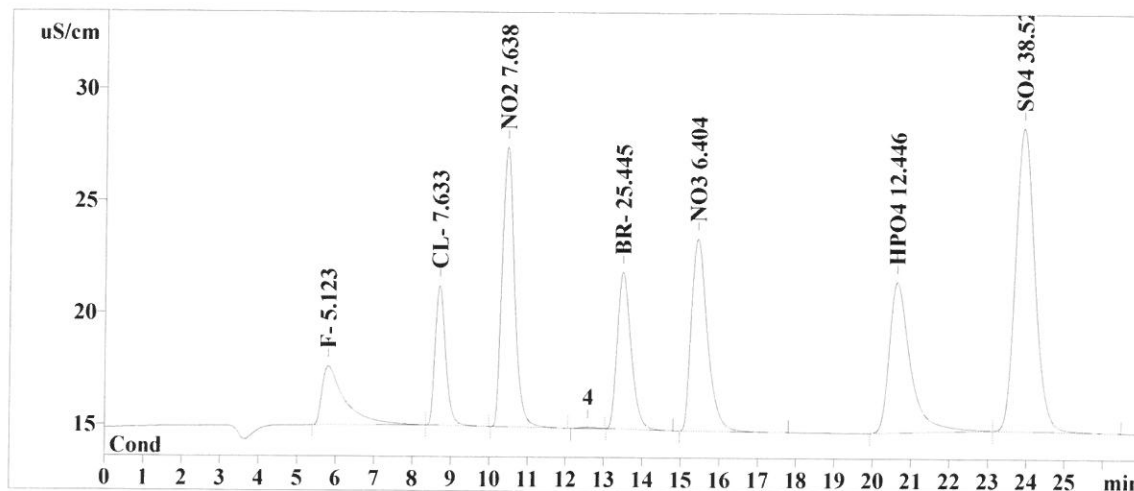
Ident: STD7  
 Analysis from: 11/5/2018 1:59:42 PM  
 File: \_2018-11-05\_

Last save: 11/6/2018 9:24:32 AM

Method: ANIONS 11-05-18.mtw  
 Run operator: wet  
 Analysis number: 64797

Last save: 11/5/2018 9:58:50 AM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.80             | 0.549          | 2.63            | 4.59        | 109.497           | 6.54      | 0. |
| 2  | 8.69             | 0.294          | 6.22            | 10.87       | 119.180           | 7.12      | 0. |
| 3  | 10.45            | 0.345          | 12.49           | 21.84       | 281.397           | 16.82     | 0. |
| 4  | 13.48            | 0.388          | 6.99            | 12.22       | 176.414           | 10.54     | 0. |
| 5  | 15.42            | 0.445          | 8.57            | 14.98       | 250.151           | 14.95     | 0. |
| 6  | 20.62            | 0.547          | 6.71            | 11.73       | 260.090           | 15.55     | 0. |
| 7  | 23.90            | 0.538          | 13.53           | 23.66       | 474.680           | 28.37     | 0. |
| 7  | 27.00            | 0.444          | 57.12           | 99.90       | 1671.409          | 99.90     | 0. |

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Report date: 11/6/2018 9:30:06 AM  
Printed by: wet

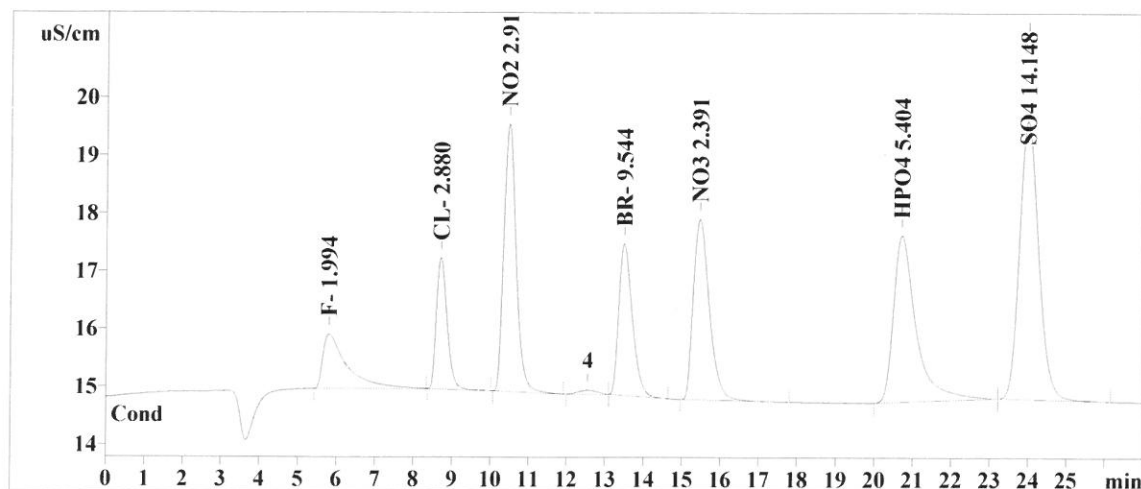
Ident: ICV  
Analysis from: 11/5/2018 3:29:27 PM  
File: \_2018-11-05\_

Last save: 11/6/2018 9:29:44 AM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64800

Last save: 11/5/2018 9:58:50 AM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.81             | 0.563          | 0.94            | 4.42        | 40.780            | 6.44      | 0. |
| 2  | 8.70             | 0.297          | 2.27            | 10.64       | 43.894            | 6.94      | 0. |
| 3  | 10.46            | 0.346          | 4.62            | 21.68       | 104.475           | 16.51     | 0. |
| 4  | 13.49            | 0.378          | 2.62            | 12.28       | 64.140            | 10.13     | 0. |
| 5  | 15.45            | 0.444          | 3.11            | 14.61       | 90.460            | 14.29     | 0. |
| 6  | 20.70            | 0.568          | 2.88            | 13.49       | 118.427           | 18.71     | 0. |
| 7  | 23.96            | 0.536          | 4.81            | 22.56       | 168.388           | 26.61     | 0. |
| 7  | 27.00            | 0.447          | 21.25           | 99.67       | 630.564           | 99.63     | 0. |

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Report date: 11/6/2018 9:30:35 AM  
Printed by: wet

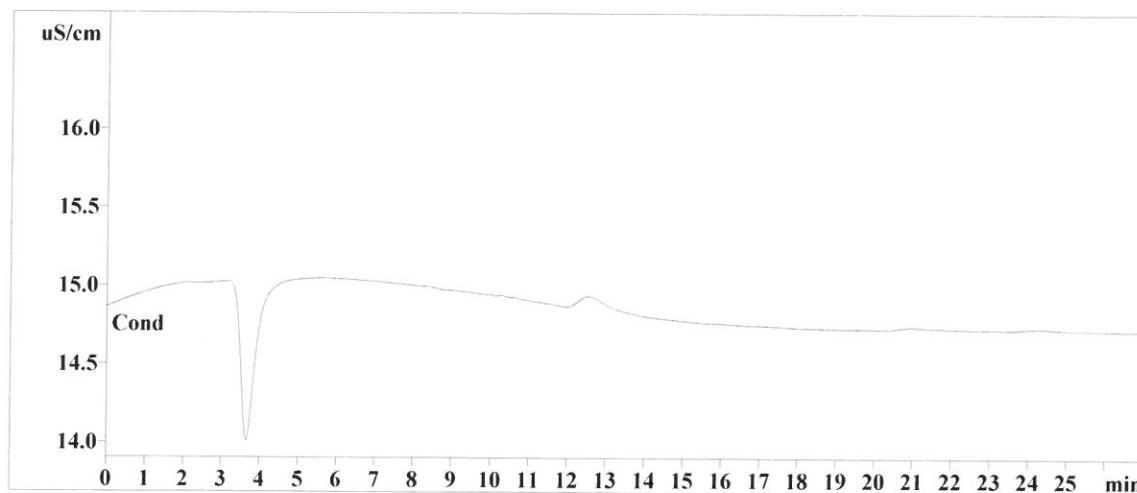
Ident: ICB  
Analysis from: 11/5/2018 3:59:23 PM  
File: \_2018-11-05\_

Last save: 11/6/2018 9:30:36 AM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64801

Last save: 11/5/2018 9:58:50 AM

SAMPLE:  
: AK/AP  
Vial number: 12  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

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Report date: 11/6/2018 12:24:14 PM  
 Printed by: wet

IC-1

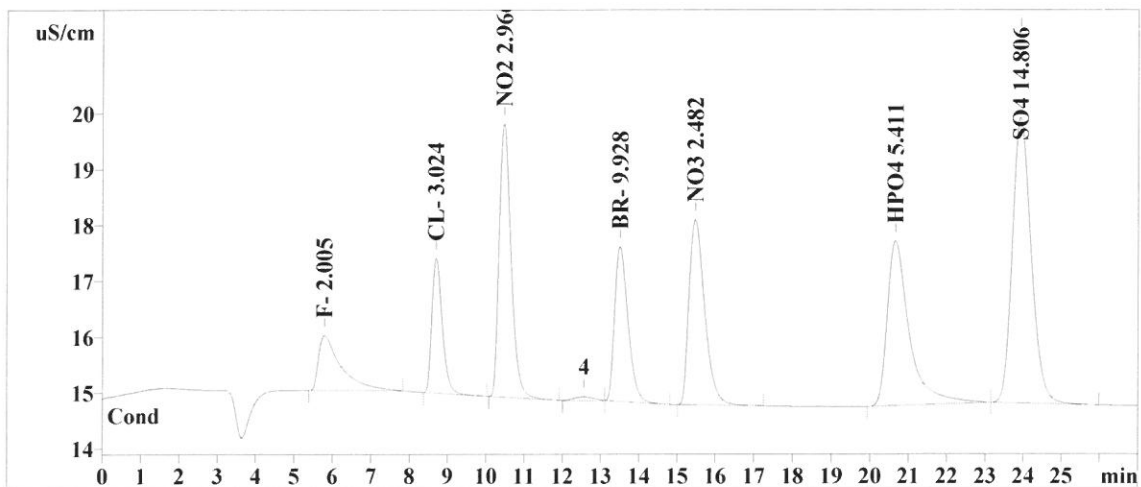
Ident: CCV  
 Analysis from: 11/6/2018 10:49:13 AM  
 File: \_2018-11-06\_

Last save: 11/6/2018 11:16:02 AM

Method: ANIONS 11-05-18.mtw  
 Run operator: wet  
 Analysis number: 64805

Last save: 11/5/2018 2:26:32 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.79             | 0.554          | 0.98            | 4.37        | 40.330            | 6.19      | 0. |
| 2  | 8.70             | 0.291          | 2.41            | 10.72       | 46.170            | 7.09      | 0. |
| 3  | 10.47            | 0.332          | 4.89            | 21.75       | 106.242           | 16.32     | 0. |
| 4  | 13.50            | 0.372          | 2.76            | 12.28       | 66.851            | 10.27     | 0. |
| 5  | 15.47            | 0.433          | 3.31            | 14.73       | 94.078            | 14.45     | 0. |
| 6  | 20.65            | 0.553          | 2.95            | 13.10       | 118.560           | 18.21     | 0. |
| 7  | 23.92            | 0.527          | 5.12            | 22.75       | 176.651           | 27.13     | 0. |
| 7  | 27.00            | 0.437          | 22.43           | 99.70       | 648.882           | 99.65     | 0. |

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Report date: 11/6/2018 2:17:54 PM  
Printed by: wet

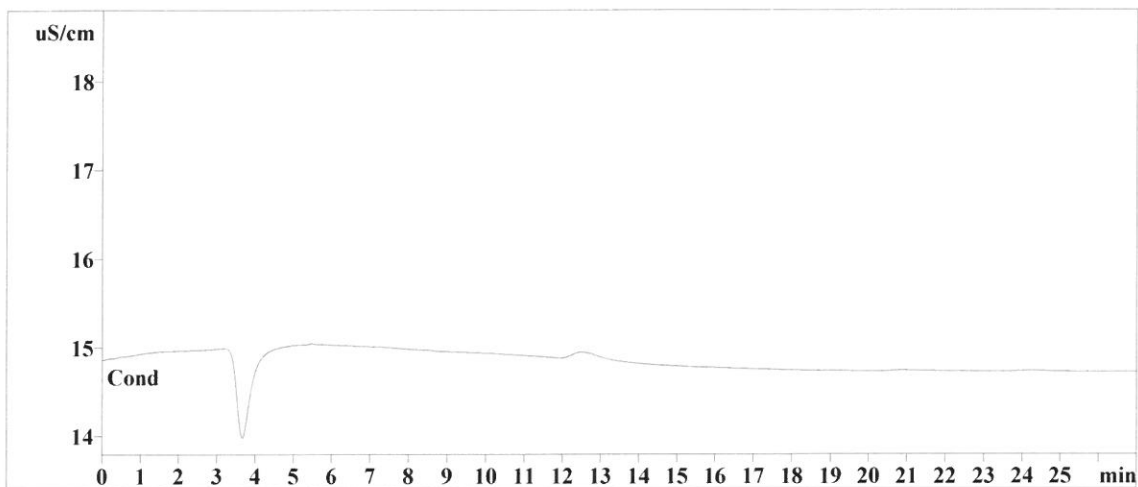
Ident: CCB  
Analysis from: 11/6/2018 11:19:09 AM  
File: \_2018-11-06\_

Last save: 11/6/2018 11:45:58 AM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64806

Last save: 11/5/2018 2:26:32 PM

SAMPLE:  
: AK/AP  
Vial number: 3  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net  
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Report date: 11/6/2018 2:18:02 PM  
Printed by: wet  
Ident: LB98058BLW  
Analysis from: 11/6/2018 11:49:04 AM  
File: \_2018-11-06\_

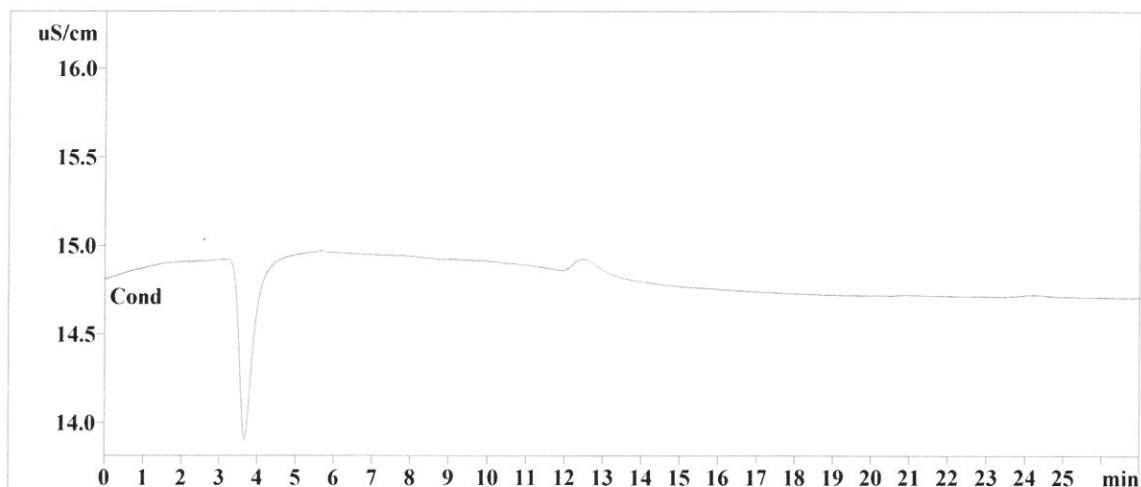
11/08/18 *AL*

Last save: 11/6/2018 2:17:48 PM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64807

Last save: 11/5/2018 2:26:32 PM

SAMPLE:  
: AK/AP  
Vial number: 4  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net  
METROHM LTD

Report date: 11/6/2018 2:18:12 PM  
 Printed by: wet  
 Ident: LB98058BSW  
 Analysis from: 11/6/2018 12:18:59 PM  
 File: \_2018-11-06\_

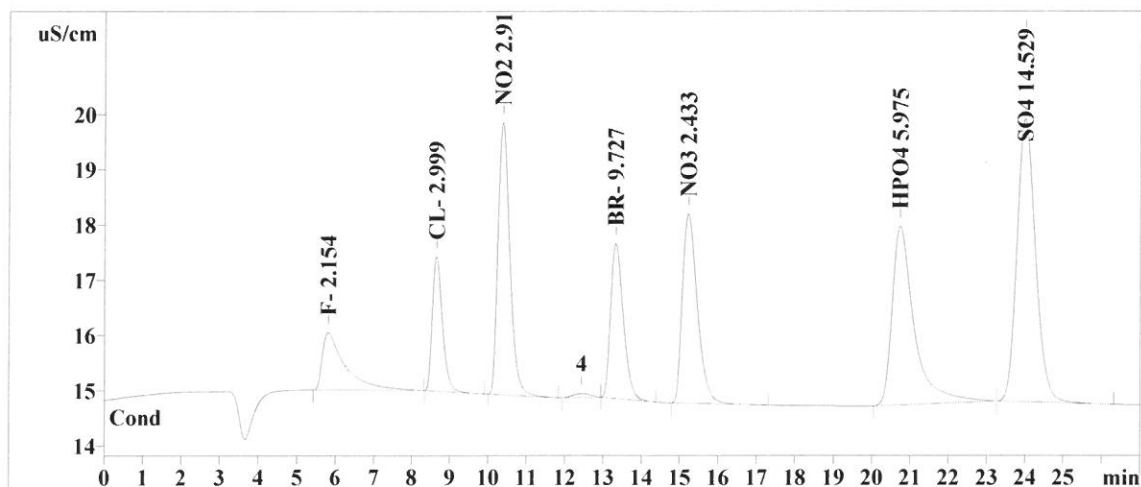
AK 11/07/18

Last save: 11/6/2018 2:17:48 PM

Method: ANIONS 11-05-18.mtw  
 Run operator: wet  
 Analysis number: 64808

Last save: 11/5/2018 2:26:32 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.81             | 0.549          | 1.03            | 4.49        | 43.651            | 6.65      | 0. |
| 2  | 8.65             | 0.287          | 2.43            | 10.55       | 45.777            | 6.97      | 0. |
| 3  | 10.38            | 0.322          | 4.93            | 21.38       | 104.451           | 15.90     | 0. |
| 4  | 13.32            | 0.360          | 2.81            | 12.17       | 65.427            | 9.96      | 0. |
| 5  | 15.22            | 0.411          | 3.42            | 14.85       | 92.154            | 14.03     | 0. |
| 6  | 20.73            | 0.549          | 3.23            | 14.01       | 129.908           | 19.78     | 0. |
| 7  | 23.99            | 0.517          | 5.12            | 22.22       | 173.165           | 26.36     | 0. |
| 7  | 27.00            | 0.428          | 22.98           | 99.67       | 654.532           | 99.64     | 0. |

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Report date: 11/6/2018 2:19:39 PM  
Printed by: wet

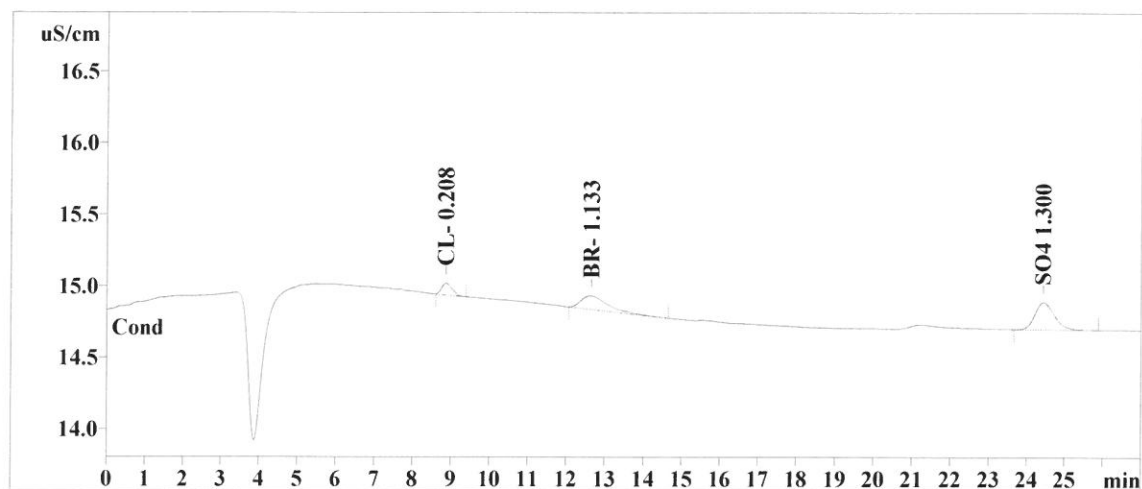
Ident: J5830-01  
Analysis from: 11/6/2018 12:48:54 PM  
File: \_2018-11-06\_

Last save: 11/6/2018 2:19:38 PM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64809

Last save: 11/5/2018 2:26:32 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 2  | 8.87             | 0.305          | 0.08            | 22.12       | 1.556             | 11.75     | 0. |
| 3  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 4  | 12.65            | 0.713          | 0.10            | 25.83       | 4.744             | 35.84     | 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  | 24.43            | 0.549          | 0.19            | 51.54       | 6.938             | 52.41     | 0. |
| 7  | 27.00            | 0.224          | 0.37            | 99.49       | 13.238            | 100.00    | 0. |

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Report date: 11/6/2018 2:19:50 PM  
Printed by: wet

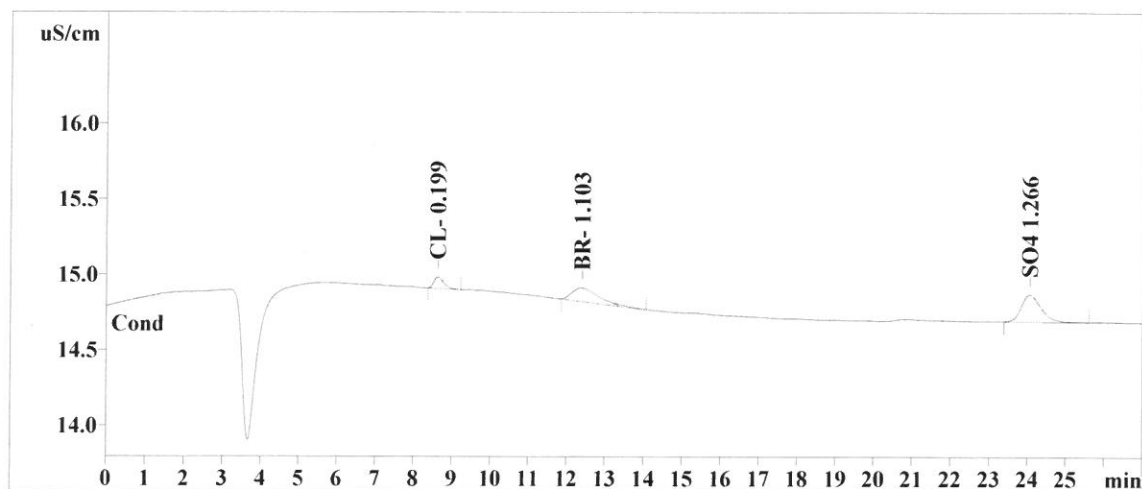
Ident: J5830-01DUP  
Analysis from: 11/6/2018 1:18:50 PM  
File: \_2018-11-06\_

Last save: 11/6/2018 1:45:40 PM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64810

Last save: 11/5/2018 2:26:32 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 2  | 8.63             | 0.290          | 0.08            | 21.71       | 1.420             | 11.40     | 0. |
| 3  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 4  | 12.40            | 0.735          | 0.09            | 26.18       | 4.533             | 36.38     | 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  | 24.05            | 0.546          | 0.18            | 51.26       | 6.506             | 52.22     | 0. |
| 7  | 27.00            | 0.224          | 0.35            | 99.15       | 12.459            | 100.00    | 0. |

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Report date: 11/6/2018 2:20:01 PM  
Printed by: wet

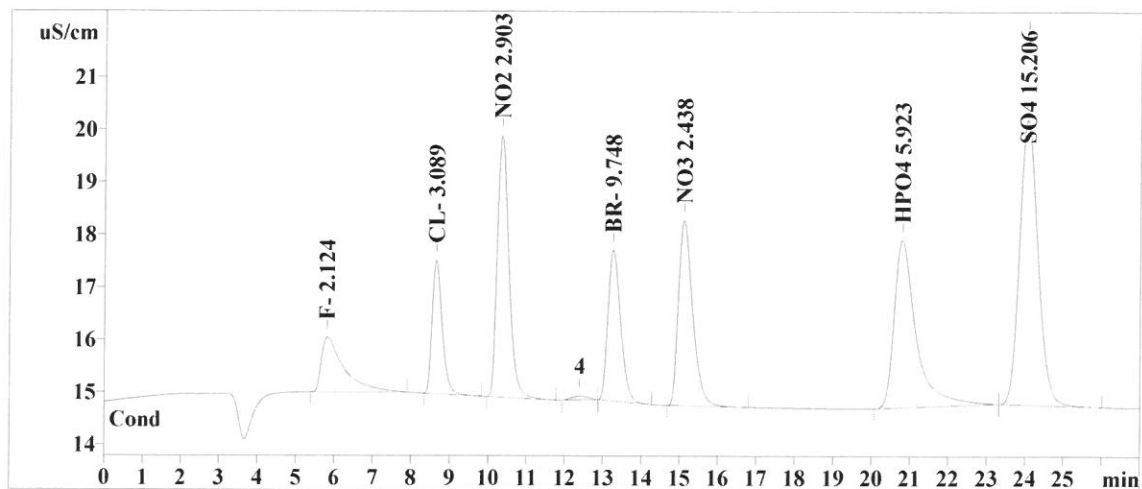
Ident: J5830-01MS  
Analysis from: 11/6/2018 1:48:44 PM  
File: \_2018-11-06\_

Last save: 11/6/2018 2:15:34 PM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64811

Last save: 11/5/2018 2:26:32 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.82             | 0.560          | 1.04            | 4.41        | 42.986            | 6.47      | 0. |
| 2  | 8.64             | 0.283          | 2.54            | 10.74       | 47.198            | 7.10      | 0. |
| 3  | 10.35            | 0.317          | 4.97            | 21.04       | 103.856           | 15.62     | 0. |
| 4  | 13.25            | 0.353          | 2.87            | 12.13       | 65.576            | 9.86      | 0. |
| 5  | 15.11            | 0.400          | 3.52            | 14.91       | 92.356            | 13.89     | 0. |
| 6  | 20.79            | 0.549          | 3.19            | 13.50       | 128.854           | 19.38     | 0. |
| 7  | 24.05            | 0.512          | 5.43            | 22.96       | 181.679           | 27.33     | 0. |
| 7  | 27.00            | 0.425          | 23.56           | 99.68       | 662.506           | 99.66     | 0. |

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Report date: 11/7/2018 9:28:57 AM  
Printed by: wet

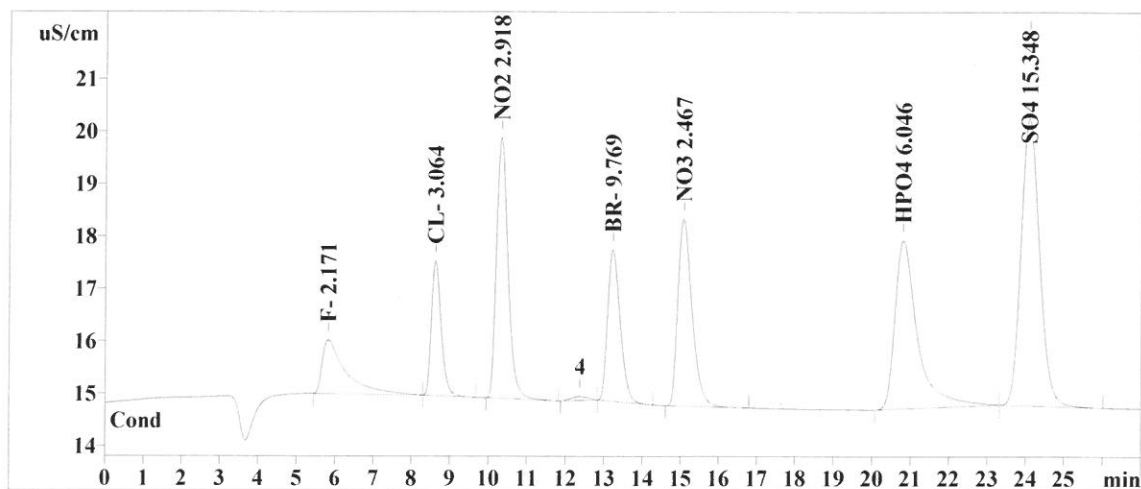
Ident: J5830-01MSD  
Analysis from: 11/6/2018 2:18:40 PM  
File: \_2018-11-06\_

Last save: 11/6/2018 2:45:30 PM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64812

Last save: 11/5/2018 2:26:32 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.82             | 0.553          | 1.03            | 4.31        | 44.035            | 6.56      | 0. |
| 2  | 8.61             | 0.279          | 2.56            | 10.76       | 46.794            | 6.97      | 0. |
| 3  | 10.32            | 0.318          | 4.98            | 20.92       | 104.428           | 15.55     | 0. |
| 4  | 13.21            | 0.352          | 2.89            | 12.13       | 65.729            | 9.79      | 0. |
| 5  | 15.07            | 0.400          | 3.57            | 15.01       | 93.491            | 13.92     | 0. |
| 6  | 20.80            | 0.555          | 3.21            | 13.49       | 131.340           | 19.56     | 0. |
| 7  | 24.07            | 0.512          | 5.48            | 23.05       | 183.465           | 27.32     | 0. |
| 7  | 27.00            | 0.424          | 23.71           | 99.68       | 669.283           | 99.65     | 0. |

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Report date: 11/7/2018 9:30:42 AM  
Printed by: wet

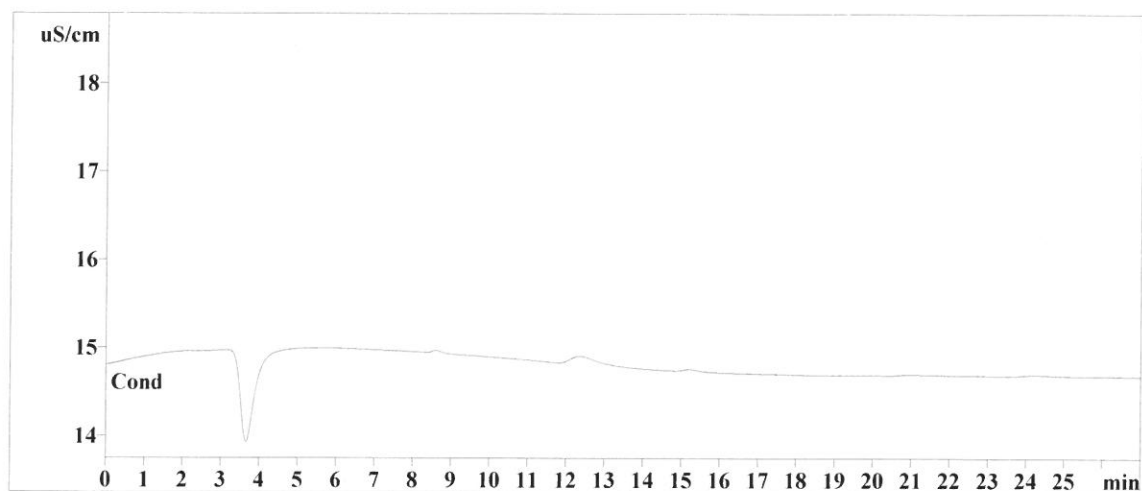
Ident: J5836-01  
Analysis from: 11/6/2018 3:18:30 PM  
File: \_2018-11-06\_

Last save: 11/7/2018 9:30:42 AM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64814

Last save: 11/5/2018 2:26:32 PM

SAMPLE:  
: AK/AP  
Vial number: 10  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

This report has been created by IC Net  
METROHM LTD

Report date: 11/7/2018 9:30:51 AM  
Printed by: wet

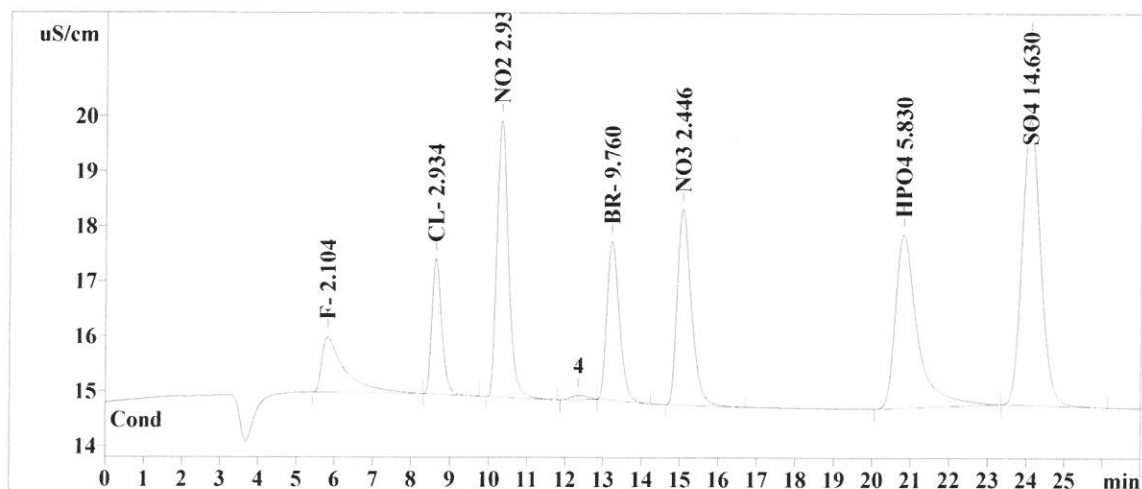
Ident: CCV  
Analysis from: 11/6/2018 3:48:25 PM  
File: \_2018-11-06\_

Last save: 11/6/2018 4:15:14 PM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64815

Last save: 11/5/2018 2:26:32 PM

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



Quantitation method: Custom

| No | Retention<br>min | Width/2<br>min | Height<br>uS/cm | Height<br>% | Area<br>uS/cm*sec | Area<br>% |    |
|----|------------------|----------------|-----------------|-------------|-------------------|-----------|----|
| 1  | 5.81             | 0.545          | 1.00            | 4.30        | 42.530            | 6.50      | 0. |
| 2  | 8.62             | 0.279          | 2.45            | 10.50       | 44.735            | 6.84      | 0. |
| 3  | 10.32            | 0.316          | 5.03            | 21.55       | 105.005           | 16.05     | 0. |
| 4  | 13.21            | 0.352          | 2.88            | 12.36       | 65.663            | 10.04     | 0. |
| 5  | 15.06            | 0.397          | 3.55            | 15.24       | 92.650            | 14.16     | 0. |
| 6  | 20.80            | 0.550          | 3.15            | 13.50       | 126.988           | 19.41     | 0. |
| 7  | 24.08            | 0.514          | 5.19            | 22.24       | 174.433           | 26.66     | 0. |
| 7  | 27.00            | 0.422          | 23.25           | 99.68       | 652.004           | 99.67     | 0. |

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Report date: 11/7/2018 9:31:08 AM  
Printed by: wet

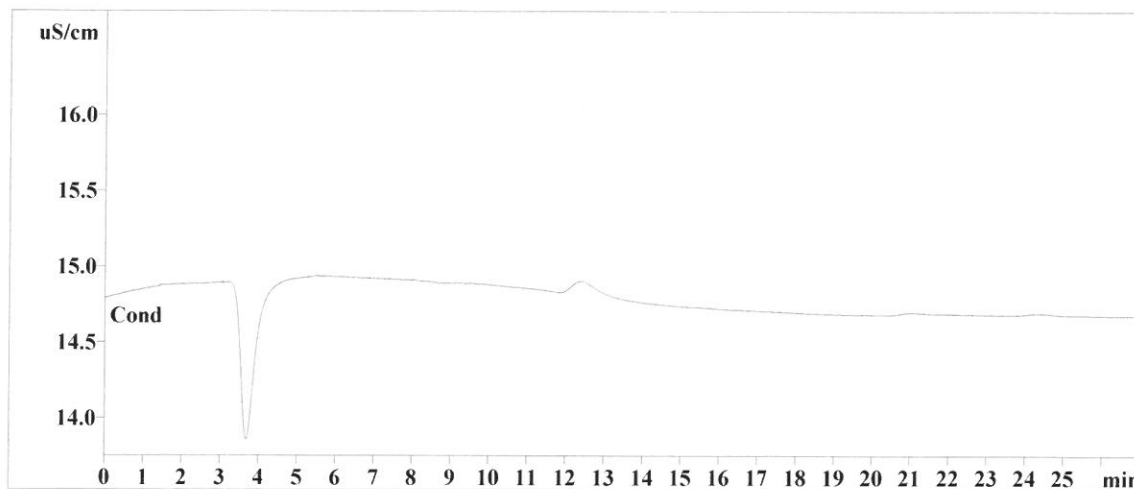
Ident: CCB  
Analysis from: 11/6/2018 4:18:20 PM  
File: \_2018-11-06\_

Last save: 11/7/2018 9:31:06 AM

Method: ANIONS 11-05-18.mtw  
Run operator: wet  
Analysis number: 64816

Last save: 11/5/2018 2:26:32 PM

SAMPLE:  
: AK/AP  
Vial number: 3  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

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