

02-17-20 90  
JCI 3000

Clear table

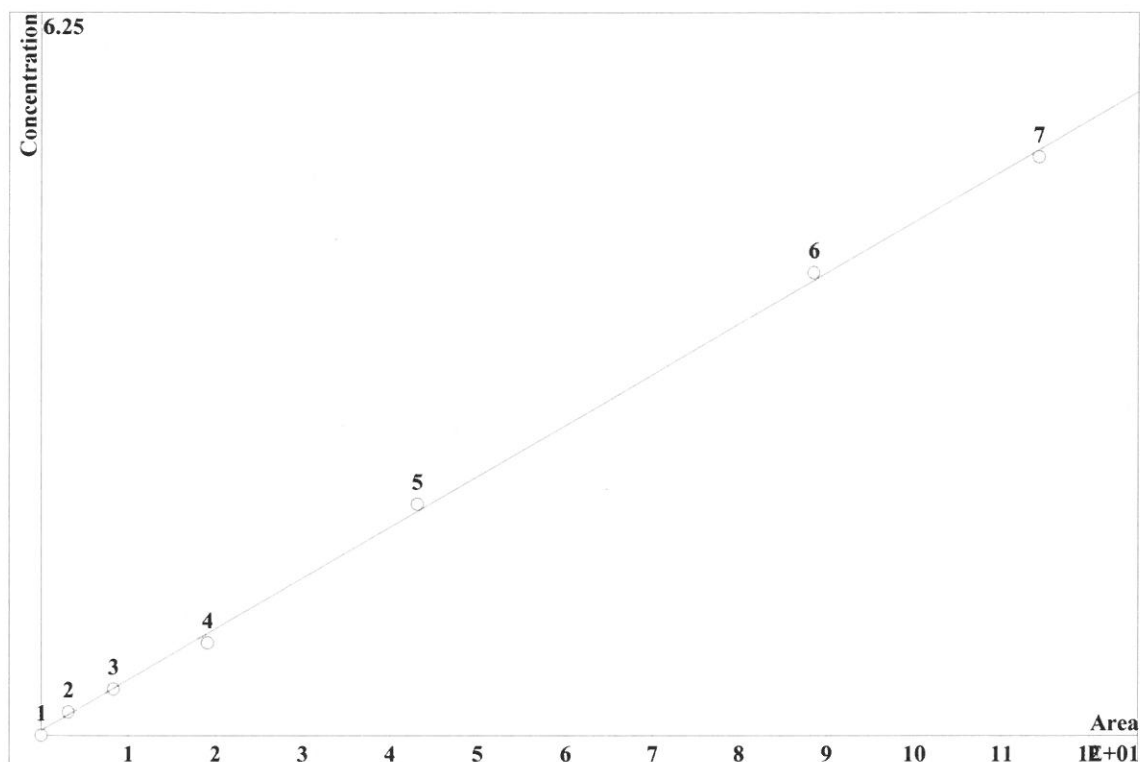
| ident       | concentra<br>tion F- | concentrati<br>on CL- | concentrati<br>on NO2 | concentrati<br>on BR- | concentrati<br>on NO3 | concentrati<br>on HPO4 | concentrati<br>on SO4 | file name   | date time     | Initial wt/<br>Final Vol | Analyst |
|-------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|-------------|---------------|--------------------------|---------|
| STD1        | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2020-01-28_ | 1/28/20 9:34  |                          | AK/AP   |
| STD2        | 0.2670               | 0.4010                | 0.3860                | 1.3090                | 0.3410                | 0.3390                 | 1.9760                | 2020-01-28_ | 1/28/20 10:05 |                          | AK/AP   |
| STD3        | 0.4650               | 0.6380                | 0.6420                | 2.1400                | 0.5450                | 0.8910                 | 3.1360                | 2020-01-28_ | 1/28/20 10:36 |                          | AK/AP   |
| STD4        | 0.8720               | 1.1730                | 1.1710                | 3.9670                | 0.9970                | 2.0020                 | 5.7610                | 2020-01-28_ | 1/28/20 11:07 |                          | AK/AP   |
| STD5        | 1.9180               | 2.8930                | 2.9590                | 9.8060                | 2.4400                | 4.7580                 | 13.6710               | 2020-01-28_ | 1/28/20 11:37 |                          | AK/AP   |
| STD6        | 3.8990               | 5.8470                | 6.0020                | 19.5560               | 4.9120                | 9.5460                 | 28.9560               | 2020-01-28_ | 1/28/20 12:08 |                          | AK/AP   |
| STD7        | 5.0620               | 7.6520                | 7.4690                | 25.2280               | 6.3170                | 12.5350                | 38.0320               | 2020-01-28_ | 1/28/20 12:39 |                          | AK/AP   |
| ICV         | 1.9450               | 2.8500                | 2.8810                | 9.6870                | 2.4020                | 5.0640                 | 14.8010               | 2020-01-28_ | 1/28/20 13:10 |                          | AK/AP   |
| ICB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2020-01-28_ | 1/28/20 13:44 |                          | AK/AP   |
| CCV         | 1.9590               | 2.8830                | 2.8490                | 9.4180                | 2.3630                | 5.0240                 | 14.8740               | 2020-02-14_ | 2/14/20 10:37 |                          | AK/AP   |
| CCB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2020-02-14_ | 2/14/20 11:08 |                          | AK/AP   |
| LB107773BLW | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2020-02-14_ | 2/14/20 11:39 |                          | AK/AP   |
| LB107773BSW | 1.9900               | 2.9590                | 2.9120                | 9.6330                | 2.3930                | 5.0170                 | 14.6880               | 2020-02-14_ | 2/14/20 12:09 |                          | AK/AP   |
| L1538-01    | 0.0000               | 0.3740                | 0.0000                | 0.0000                | 0.3180                | 0.0000                 | 0.0000                | 2020-02-14_ | 2/14/20 13:42 |                          | AK/AP   |
| L1538-01DUP | 0.0000               | 0.3690                | 0.0000                | 0.0000                | 0.3310                | 0.0000                 | 0.0000                | 2020-02-14_ | 2/14/20 15:15 |                          | AK/AP   |
| L1538-01MS  | 2.1030               | 2.9680                | 2.8270                | 9.4800                | 2.5910                | 5.2230                 | 14.5860               | 2020-02-14_ | 2/14/20 15:46 |                          | AK/AP   |
| L1538-01MSD | 2.0310               | 2.8240                | 2.7230                | 9.0190                | 2.4840                | 4.9120                 | 13.9800               | 2020-02-14_ | 2/14/20 16:17 |                          | AK/AP   |
| CCV         | 1.9340               | 2.9430                | 2.9080                | 9.5530                | 2.5170                | 5.2200                 | 15.0070               | 2020-02-14_ | 2/14/20 16:48 |                          | AK/AP   |
| CCB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | 2020-02-14_ | 2/14/20 17:19 |                          | AK/AP   |

# CALIBRATION OF COMPONENT F-

Method: ANIONS 01-28-20.mtw  
 Equation:  $Q = 0.879124 \cdot A + 0.861179$   
 RSD: 3.408 %  
 Correlation coefficient: 0.999509

IC-1 Cal

01-28-20 AK



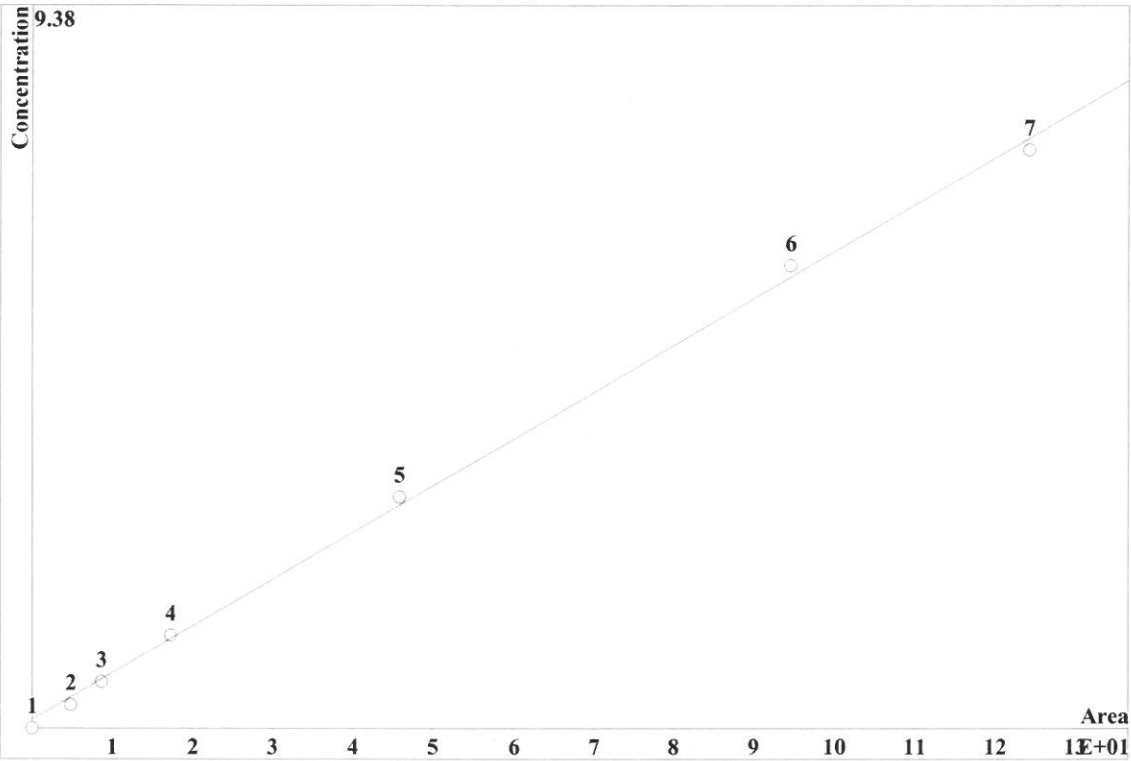
K3 = 0      K2 = 0      K1 = 0.879124      K0 = 0.861179

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     | 0.1476 | 3.058 | 0.2   | 20      | 5.773     |      |      | Yes |
| 3     | 0.3098 | 8.3   | 0.4   | 20      | 5.773     |      |      | Yes |
| 4     | 0.7569 | 19.1  | 0.8   | 20      | 5.773     |      |      | Yes |
| 5     | 1.898  | 43.09 | 2     | 20      | 5.773     |      |      | Yes |
| 6     | 4.003  | 88.48 | 4     | 20      | 5.773     |      |      | Yes |
| 7     | 5.314  | 114.2 | 5     | 20      | 5.773     |      |      | Yes |

CALIBRATION OF COMPONENT CL-

Method: ANIONS 01-28-20.mtw  
Equation: Q = 1.21457·A + 2.23008  
RSD: 4.290 %  
Correlation coefficient: 0.999222

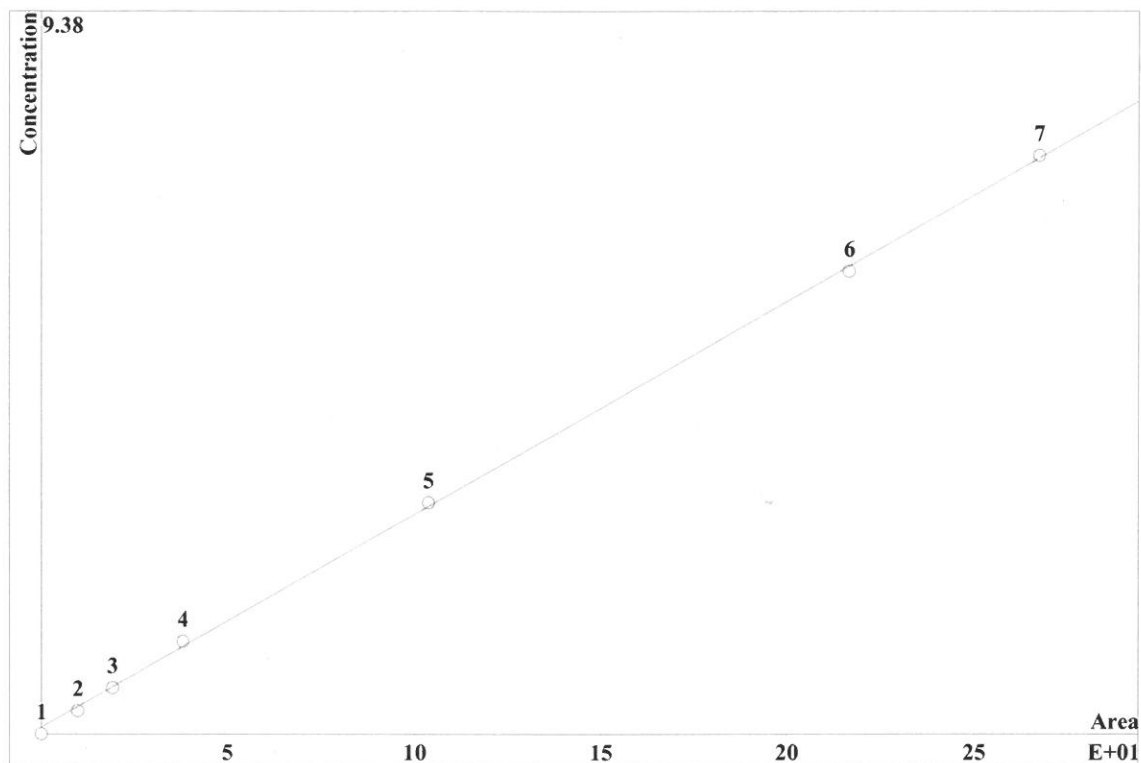


K3 = 0      K2 = 0      K1 = 1.21457      K0 = 2.23008  
Base: Area  
Ref.channel: Cond  
ISTD:  
Formula: Linear  
Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      | 0     | 0     | 0       | 0         |      | No   |
| 2     | 0.421  | 4.828 | 0.3   | 20      | 9.479     |      | Yes  |
| 3     | 0.802  | 8.682 | 0.6   | 20      | 9.479     |      | Yes  |
| 4     | 1.642  | 17.28 | 1.2   | 20      | 9.479     |      | Yes  |
| 5     | 4.367  | 45.81 | 3     | 20      | 9.479     |      | Yes  |
| 6     | 9.262  | 94.5  | 6     | 20      | 9.479     |      | Yes  |
| 7     | 11.95  | 124.2 | 7.5   | 20      | 9.479     |      | Yes  |

CALIBRATION OF COMPONENT NO2

Method: ANIONS 01-28-20.mtw  
 Equation:  $Q = 0.551936 \cdot A + 1.77555$   
 RSD: 2.008 %  
 Correlation coefficient: 0.999830



K3 = 0      K2 = 0      K1 = 0.551936      K0 = 1.77555

Base: Area

Ref.channel: Cond

ISTD:

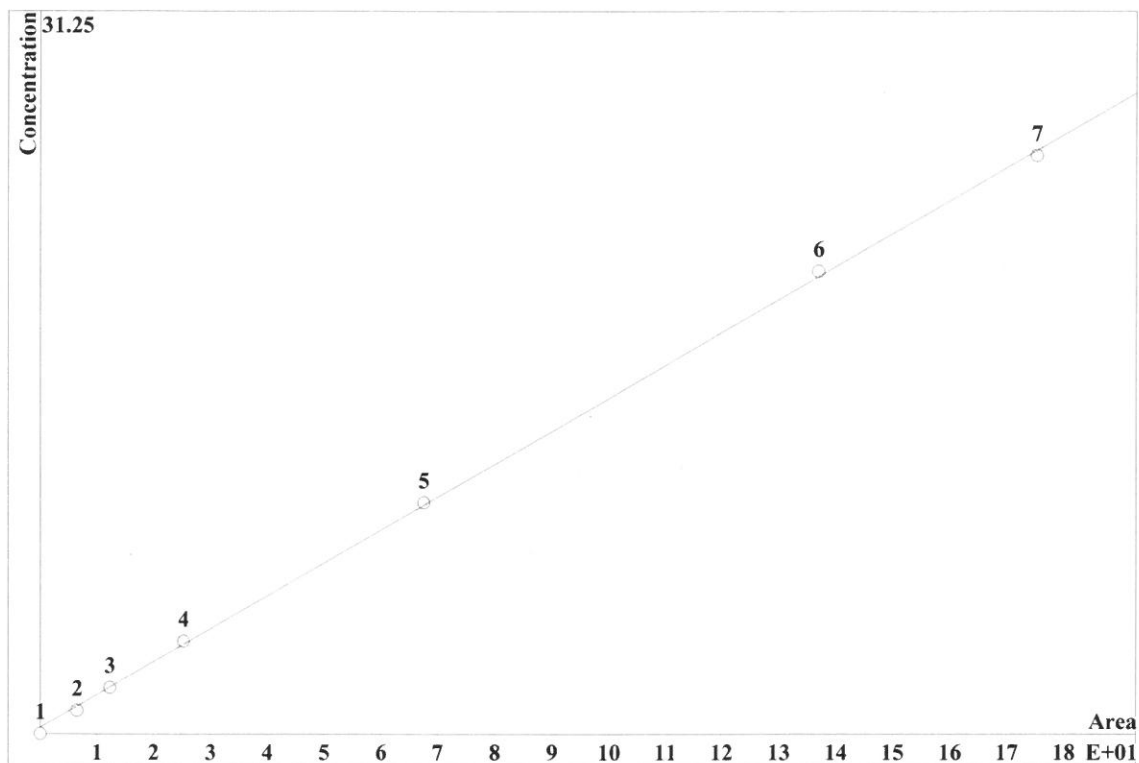
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |
|-------|--------|-------|-------|---------|-----------|------|------|
| 1     | 0      | 0     | 0     | 0       | 0         |      | No   |
| 2     | 0.7331 | 9.775 | 0.3   | 20      | 12.05     | Yes  |      |
| 3     | 1.418  | 19.09 | 0.6   | 20      | 12.05     | Yes  |      |
| 4     | 2.765  | 37.94 | 1.2   | 20      | 12.05     | Yes  |      |
| 5     | 7.154  | 103.8 | 3     | 20      | 12.05     | Yes  |      |
| 6     | 14.05  | 216.7 | 6     | 20      | 12.05     | Yes  |      |
| 7     | 16.88  | 267.4 | 7.5   | 20      | 12.05     | Yes  |      |

CALIBRATION OF COMPONENT BR-

Method: ANIONS 01-28-20.mtw  
 Equation:  $Q = 2.84694 \cdot A + 5.56291$   
 RSD: 2.003 %  
 Correlation coefficient: 0.999830



K3 = 0      K2 = 0      K1 = 2.84694      K0 = 5.56291

Base: Area

Ref.channel: Cond

ISTD:

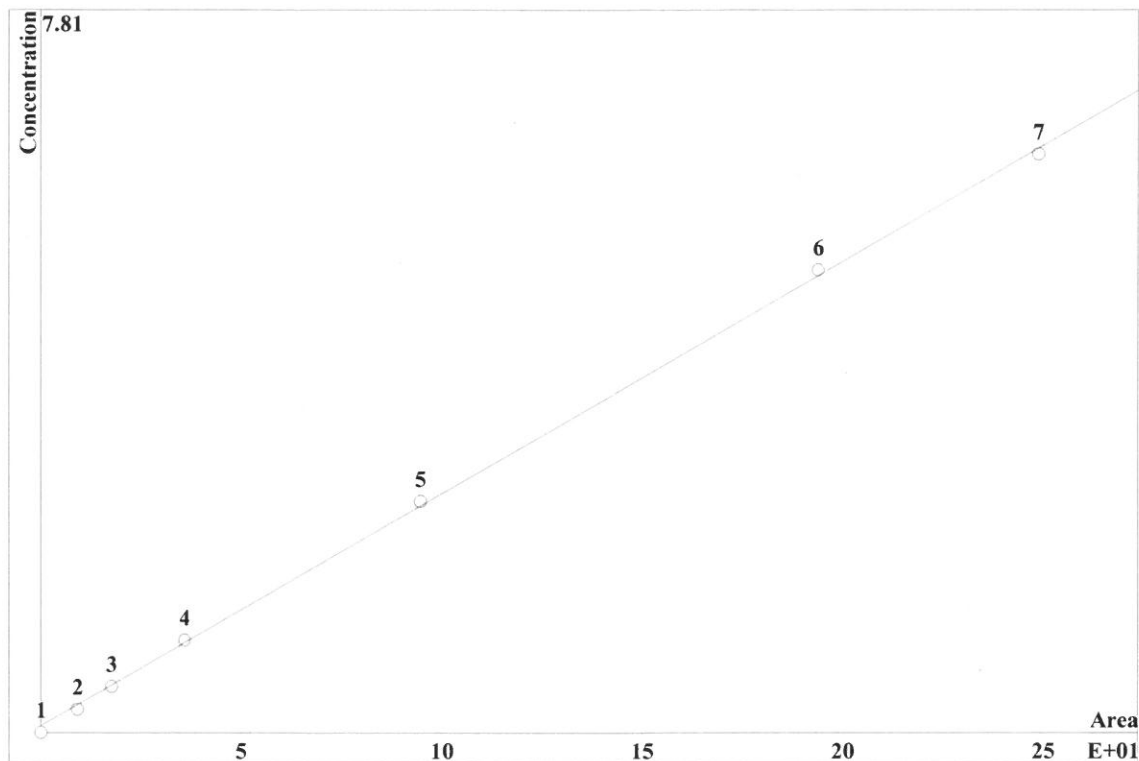
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |     |
|-------|--------|-------|-------|---------|-----------|------|------|-----|
| 1     | 0      | 0     | 0     | 0       | 0         |      |      | No  |
| 2     | 0.3908 | 6.449 | 1     | 20      | 14.2      |      |      | Yes |
| 3     | 0.7635 | 12.36 | 2     | 20      | 14.2      |      |      | Yes |
| 4     | 1.585  | 25.26 | 4     | 20      | 14.2      |      |      | Yes |
| 5     | 4.255  | 67.54 | 10    | 20      | 14.2      |      |      | Yes |
| 6     | 9.07   | 136.9 | 20    | 20      | 14.2      |      |      | Yes |
| 7     | 11.66  | 175.3 | 25    | 20      | 14.2      |      |      | Yes |

CALIBRATION OF COMPONENT NO3

Method: ANIONS 01-28-20.mtw  
 Equation:  $Q = 0.501757 \cdot A + 1.50149$   
 RSD: 2.314 %  
 Correlation coefficient: 0.999774

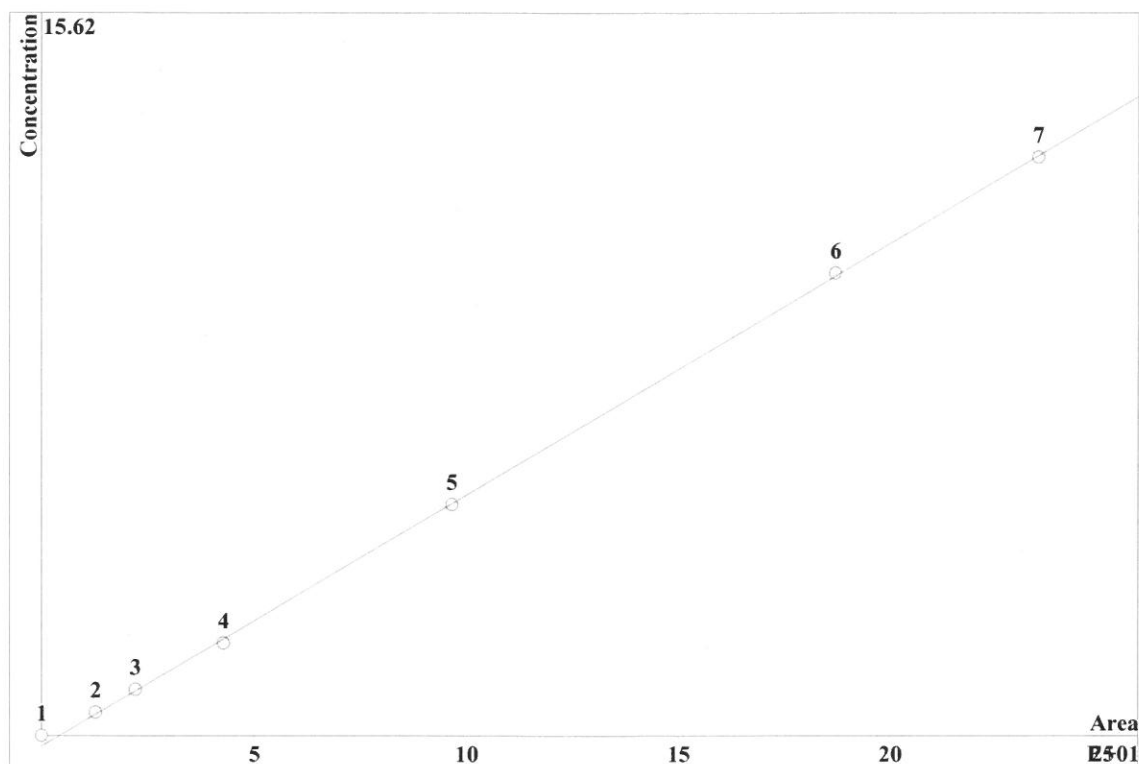


K3 = 0      K2 = 0      K1 = 0.501757      K0 = 1.50149  
 Base: Area  
 Ref.channel: Cond  
 ISTD:  
 Formula: Linear  
 Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |    |
|-------|--------|-------|-------|---------|-----------|------|------|----|
| 1     | 0      | 0     | 0     | 0       | 0         |      | 0    | No |
| 2     | 0.4703 | 9.1   | 0.25  | 20      | 16.36     | Yes  |      |    |
| 3     | 0.9096 | 17.55 | 0.5   | 20      | 16.36     | Yes  |      |    |
| 4     | 1.876  | 35.85 | 1     | 20      | 16.36     | Yes  |      |    |
| 5     | 4.938  | 94.69 | 2.5   | 20      | 16.36     | Yes  |      |    |
| 6     | 10.31  | 193.9 | 5     | 20      | 16.36     | Yes  |      |    |
| 7     | 13.17  | 248.8 | 6.25  | 20      | 16.36     | Yes  |      |    |

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 01-28-20.mtw  
 Equation:  $Q = 1.08728 \cdot A - 4.60375$   
 RSD: 1.249 %  
 Correlation coefficient: 0.999934



K3 = 0      K2 = 0      K1 = 1.08728      K0 = -4.60375

Base: Area

Ref.channel: Cond

ISTD:

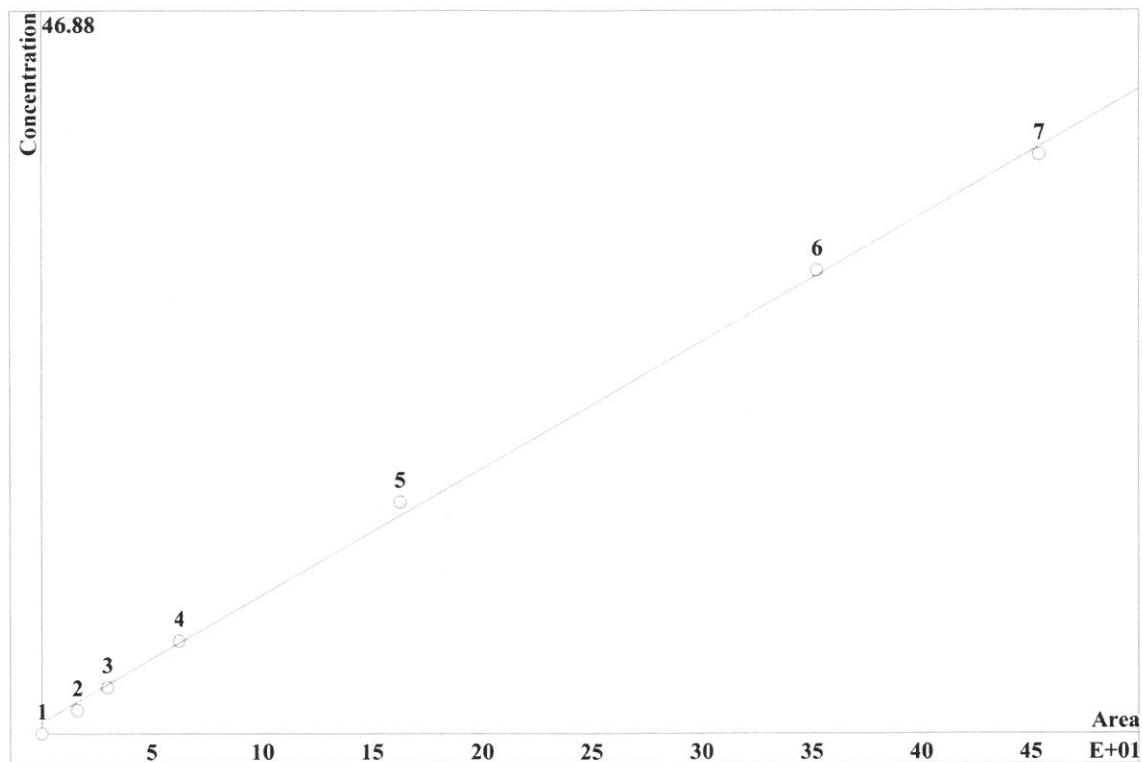
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |    |
|-------|--------|-------|-------|---------|-----------|------|------|----|
| 1     | 0      | 0     | 0     | 0       | 0         |      |      | No |
| 2     | 0.3696 | 12.67 | 0.5   | 20      | 22.65     | Yes  |      |    |
| 3     | 0.6826 | 22.01 | 1     | 20      | 22.65     | Yes  |      |    |
| 4     | 1.345  | 42.65 | 2     | 20      | 22.65     | Yes  |      |    |
| 5     | 3.177  | 96.54 | 5     | 20      | 22.65     | Yes  |      |    |
| 6     | 6.415  | 187   | 10    | 20      | 22.65     | Yes  |      |    |
| 7     | 8.211  | 234.8 | 12.5  | 20      | 22.65     | Yes  |      |    |

CALIBRATION OF COMPONENT SO4

Method: ANIONS 01-28-20.mtw  
 Equation:  $Q = 1.64354 \cdot A + 14.825$   
 RSD: 3.962 %  
 Correlation coefficient: 0.999336



K3 = 0      K2 = 0      K1 = 1.64354      K0 = 14.825

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     | 0.5802 | 16.11 | 1.5   | 20      | 26.38     |      |      | Yes |
| 3     | 1.117  | 29.97 | 3     | 20      | 26.38     |      |      | Yes |
| 4     | 2.308  | 62.43 | 6     | 20      | 26.38     |      |      | Yes |
| 5     | 6.201  | 162.9 | 15    | 20      | 26.38     |      |      | Yes |
| 6     | 13.48  | 352.3 | 30    | 20      | 26.38     |      |      | Yes |
| 7     | 17.44  | 453.8 | 37.5  | 20      | 26.38     |      |      | Yes |

Report date: 1/29/2020 9:35:27 AM  
Printed by: wet

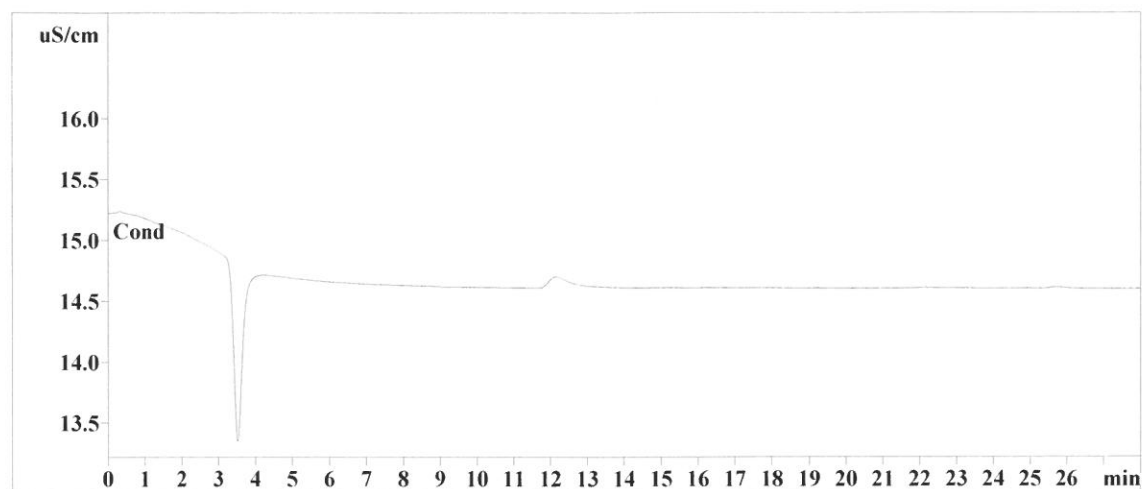
Ident: STD1  
Analysis from: 1/28/2020 9:34:18 AM  
File: \_2020-01-28\_

Last save: 1/28/2020 10:02:08 AM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69694

Last save: 1/28/2020 8:35:00 AM

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



Quantitation method: Custom

No peaks

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Report date: 1/29/2020 9:35:40 AM  
Printed by: wet

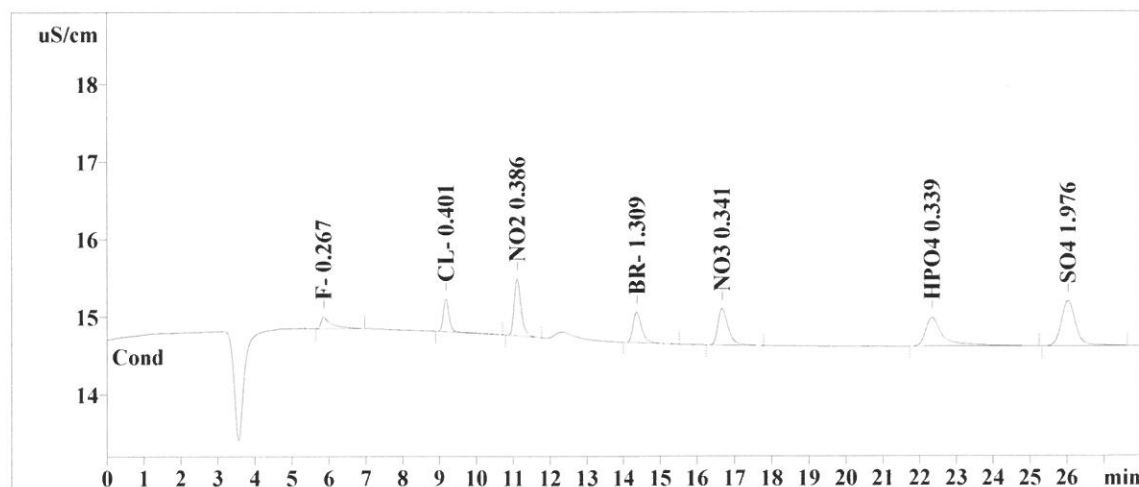
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Analysis from: 1/28/2020 10:05:13 AM  
File: \_2020-01-28\_

Last save: 1/28/2020 10:33:02 AM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69695

Last save: 1/28/2020 10:02:08 AM

SAMPLE:  
: AK/AP  
Vial number: 3  
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  | 5.86             | 0.252          | 0.15            | 4.73        | 3.058             | 4.93      | 0. |
| 2  | 9.18             | 0.160          | 0.42            | 13.53       | 4.828             | 7.79      | 0. |
| 3  | 11.11            | 0.198          | 0.73            | 23.53       | 9.775             | 15.77     | 0. |
| 4  | 14.36            | 0.243          | 0.39            | 12.56       | 6.449             | 10.40     | 0. |
| 5  | 16.66            | 0.285          | 0.47            | 15.09       | 9.100             | 14.68     | 0. |
| 6  | 22.34            | 0.418          | 0.37            | 11.85       | 12.670            | 20.44     | 0. |
| 7  | 26.03            | 0.407          | 0.58            | 18.62       | 16.111            | 25.99     | 0. |
| 7  | 28.00            | 0.281          | 3.11            | 99.91       | 61.992            | 100.00    | 0. |

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Report date: 1/29/2020 9:35:48 AM  
Printed by: wet

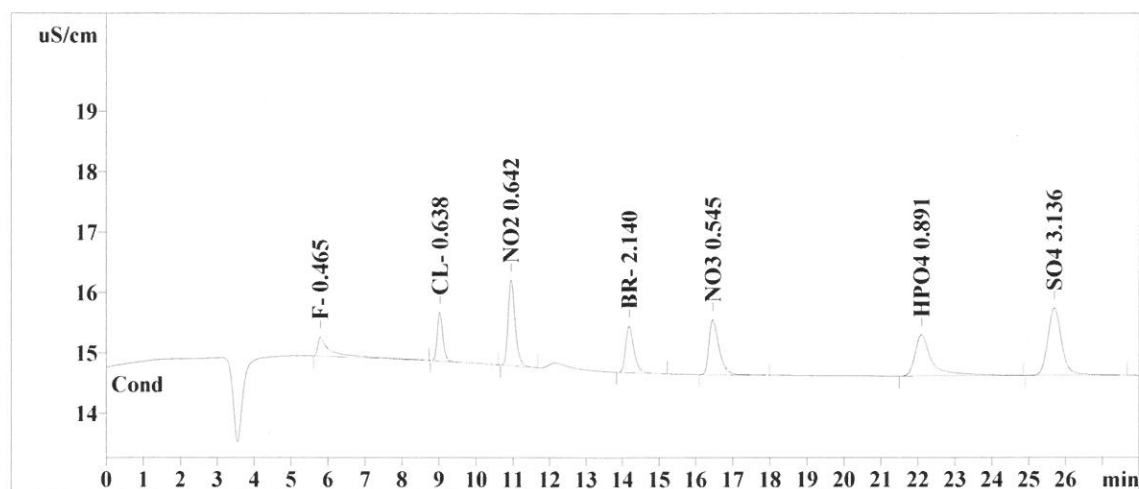
Ident: STD3  
Analysis from: 1/28/2020 10:36:07 AM  
File: \_2020-01-28\_

Last save: 1/28/2020 11:03:56 AM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69696

Last save: 1/28/2020 10:33:02 AM

SAMPLE:  
: AK/AP  
Vial number: 4  
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             | 0.248          | 0.31            | 5.15        | 8.300             | 7.04      | 0. |
| 2  | 9.02             | 0.159          | 0.80            | 13.37       | 8.682             | 7.36      | 0. |
| 3  | 10.94            | 0.200          | 1.42            | 23.60       | 19.089            | 16.18     | 0. |
| 4  | 14.18            | 0.241          | 0.76            | 12.72       | 12.360            | 10.48     | 0. |
| 5  | 16.46            | 0.284          | 0.91            | 15.15       | 17.552            | 14.88     | 0. |
| 6  | 22.09            | 0.402          | 0.68            | 11.36       | 22.007            | 18.66     | 0. |
| 7  | 25.69            | 0.392          | 1.12            | 18.60       | 29.968            | 25.41     | 0. |
| 7  | 28.00            | 0.275          | 6.00            | 99.94       | 117.958           | 100.00    | 0. |

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Report date: 1/29/2020 9:36:00 AM  
Printed by: wet

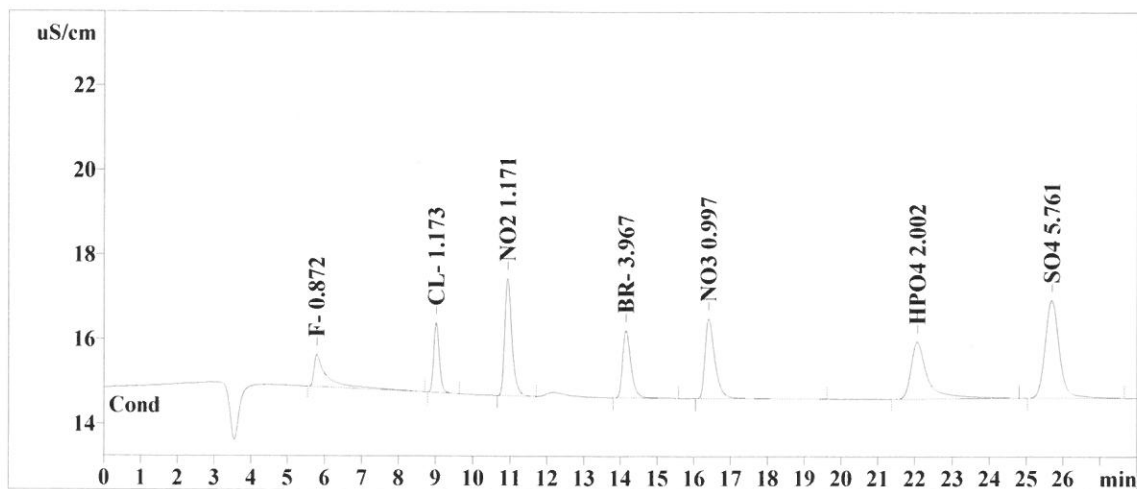
Ident: STD4  
Analysis from: 1/28/2020 11:07:02 AM  
File: \_2020-01-28\_

Last save: 1/28/2020 11:34:50 AM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69697

Last save: 1/28/2020 11:03:56 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  | 5.79             | 0.253          | 0.76            | 6.16        | 19.104            | 7.94      | 0. |
| 2  | 9.02             | 0.159          | 1.64            | 13.37       | 17.278            | 7.18      | 0. |
| 3  | 10.93            | 0.202          | 2.76            | 22.52       | 37.942            | 15.77     | 0. |
| 4  | 14.15            | 0.236          | 1.58            | 12.91       | 25.261            | 10.50     | 0. |
| 5  | 16.39            | 0.279          | 1.88            | 15.27       | 35.850            | 14.91     | 0. |
| 6  | 22.07            | 0.398          | 1.34            | 10.95       | 42.653            | 17.73     | 0. |
| 7  | 25.69            | 0.395          | 2.31            | 18.80       | 62.434            | 25.96     | 0. |
| 7  | 28.00            | 0.275          | 12.28           | 99.98       | 240.522           | 100.00    | 0. |

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Report date: 1/29/2020 9:36:10 AM  
Printed by: wet

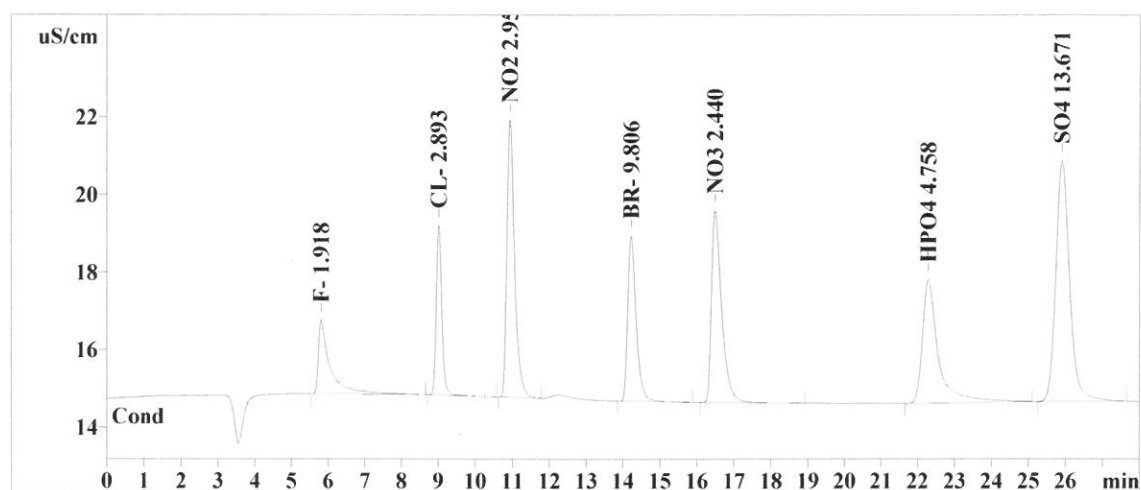
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Analysis from: 1/28/2020 11:37:57 AM  
File: \_2020-01-28\_

Last save: 1/28/2020 12:05:46 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69698

Last save: 1/28/2020 11:34:50 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  | 5.80             | 0.252          | 1.90            | 5.93        | 43.090            | 7.01      | 0. |
| 2  | 9.01             | 0.156          | 4.37            | 13.65       | 45.810            | 7.46      | 0. |
| 3  | 10.92            | 0.212          | 7.15            | 22.36       | 103.794           | 16.89     | 0. |
| 4  | 14.22            | 0.234          | 4.25            | 13.30       | 67.542            | 10.99     | 0. |
| 5  | 16.48            | 0.280          | 4.94            | 15.44       | 94.693            | 15.41     | 0. |
| 6  | 22.29            | 0.388          | 3.18            | 9.93        | 96.545            | 15.71     | 0. |
| 7  | 25.91            | 0.388          | 6.20            | 19.38       | 162.935           | 26.52     | 0. |
| 7  | 28.00            | 0.273          | 31.99           | 99.99       | 614.409           | 100.00    | 0. |

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Report date: 1/29/2020 9:36:17 AM  
Printed by: wet

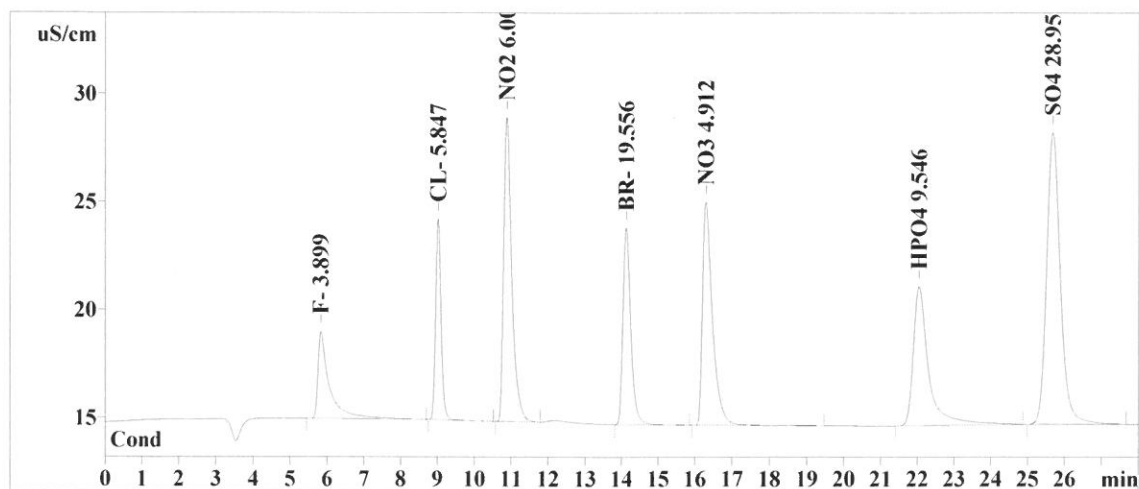
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Analysis from: 1/28/2020 12:08:51 PM  
File: \_2020-01-28\_

Last save: 1/28/2020 12:36:40 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69699

Last save: 1/28/2020 12:05:46 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  | 5.83             | 0.255          | 4.00            | 6.01        | 88.481            | 6.97      | 0. |
| 2  | 9.02             | 0.152          | 9.26            | 13.91       | 94.503            | 7.44      | 0. |
| 3  | 10.87            | 0.226          | 14.05           | 21.10       | 216.650           | 17.06     | 0. |
| 4  | 14.12            | 0.224          | 9.07            | 13.62       | 136.945           | 10.78     | 0. |
| 5  | 16.28            | 0.272          | 10.31           | 15.49       | 193.889           | 15.27     | 0. |
| 6  | 22.04            | 0.379          | 6.42            | 9.63        | 186.957           | 14.72     | 0. |
| 7  | 25.67            | 0.387          | 13.48           | 20.24       | 352.345           | 27.75     | 0. |
| 7  | 28.00            | 0.271          | 66.59           | 100.00      | 1269.770          | 100.00    | 0. |

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METROHM LTD

Report date: 1/29/2020 9:36:23 AM  
Printed by: wet

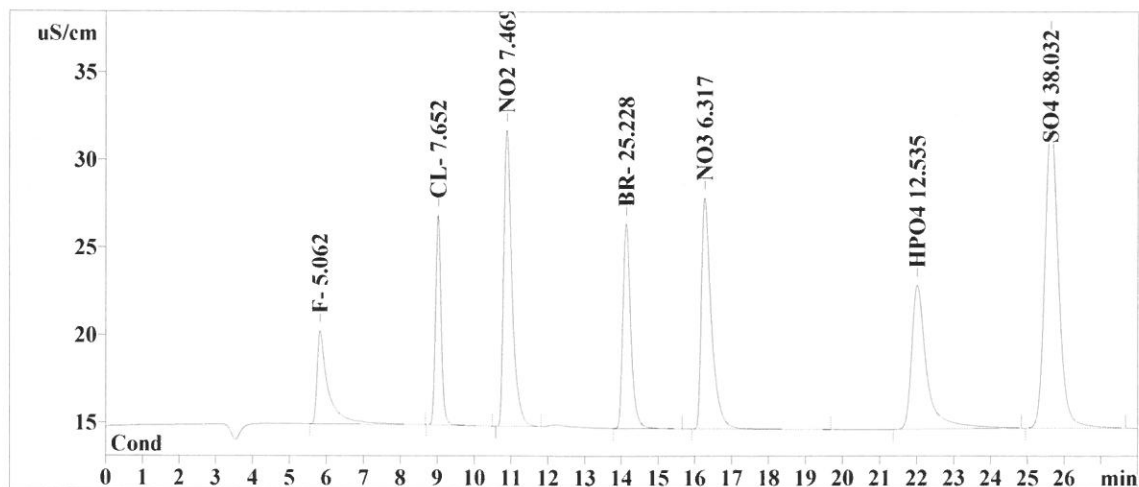
Ident: STD7  
Analysis from: 1/28/2020 12:39:46 PM  
File: \_2020-01-28\_

Last save: 1/28/2020 1:07:36 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69700

Last save: 1/28/2020 12:36:40 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  | 5.83             | 0.255          | 5.31            | 6.28        | 114.188           | 7.06      | 0. |
| 2  | 9.02             | 0.155          | 11.95           | 14.13       | 124.164           | 7.67      | 0. |
| 3  | 10.87            | 0.232          | 16.88           | 19.94       | 267.439           | 16.52     | 0. |
| 4  | 14.12            | 0.223          | 11.66           | 13.78       | 175.275           | 10.83     | 0. |
| 5  | 16.26            | 0.272          | 13.17           | 15.57       | 248.789           | 15.37     | 0. |
| 6  | 22.01            | 0.377          | 8.21            | 9.70        | 234.802           | 14.51     | 0. |
| 7  | 25.62            | 0.386          | 17.44           | 20.61       | 453.790           | 28.04     | 0. |
| 7  | 28.00            | 0.271          | 84.63           | 100.00      | 1618.446          | 100.00    | 0. |

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METROHM LTD

Report date: 1/29/2020 9:36:31 AM  
Printed by: wet

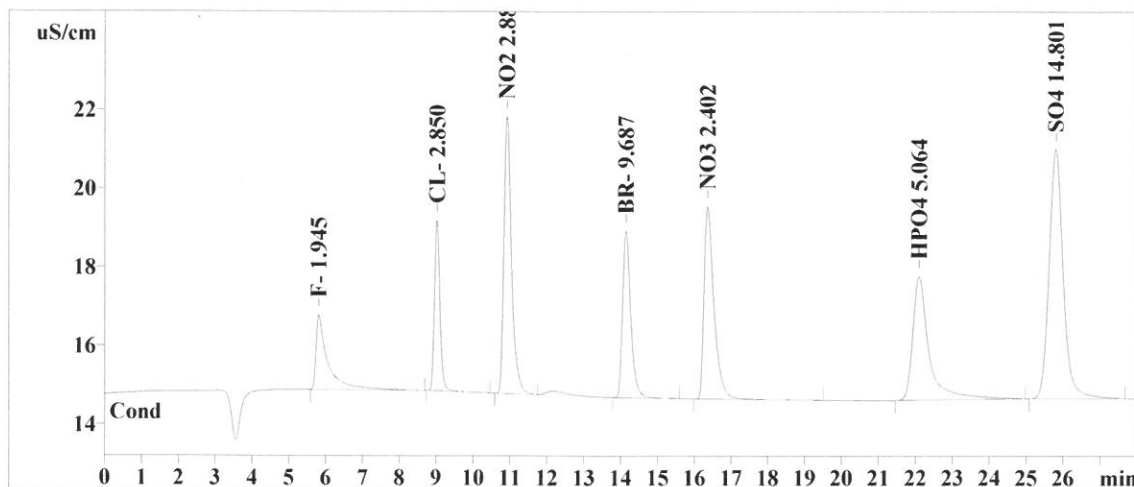
Ident: ICV  
Analysis from: 1/28/2020 1:10:41 PM  
File: \_2020-01-28\_

Last save: 1/28/2020 1:38:30 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69701

Last save: 1/28/2020 1:07:36 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  | 5.81             | 0.254          | 1.89            | 5.95        | 43.269            | 7.01      | 0. |
| 2  | 9.02             | 0.155          | 4.33            | 13.59       | 45.097            | 7.31      | 0. |
| 3  | 10.91            | 0.210          | 7.04            | 22.11       | 101.167           | 16.40     | 0. |
| 4  | 14.13            | 0.232          | 4.23            | 13.28       | 66.099            | 10.72     | 0. |
| 5  | 16.34            | 0.276          | 4.89            | 15.35       | 92.744            | 15.04     | 0. |
| 6  | 22.09            | 0.399          | 3.13            | 9.84        | 97.387            | 15.79     | 0. |
| 7  | 25.79            | 0.398          | 6.33            | 19.88       | 171.085           | 27.74     | 0. |
| 7  | 28.00            | 0.275          | 31.85           | 100.00      | 616.848           | 100.00    | 0. |

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Report date: 1/29/2020 9:36:39 AM  
Printed by: wet

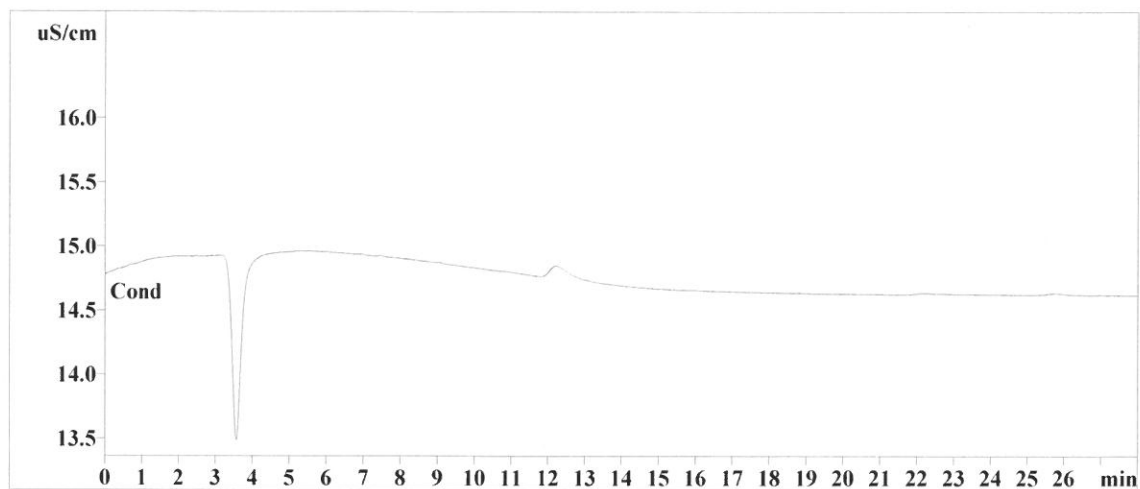
Ident: ICB  
Analysis from: 1/28/2020 1:44:20 PM  
File: \_2020-01-28\_

Last save: 1/28/2020 2:12:10 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69702

Last save: 1/28/2020 1:07:36 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: 2/17/2020 9:48:50 AM  
Printed by: wet

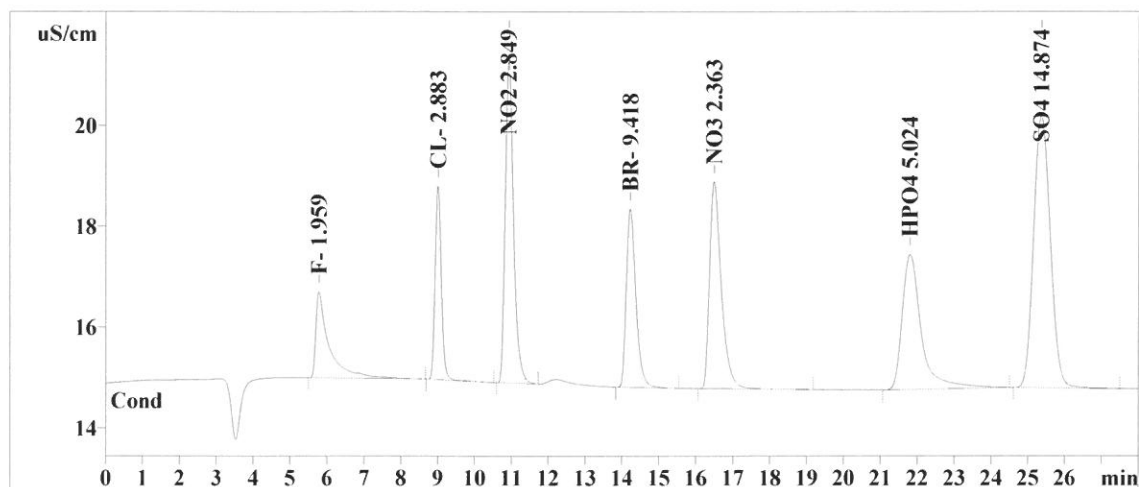
Ident: CCV  
Analysis from: 2/14/2020 10:37:05 AM  
File: \_2020-02-14\_

Last save: 2/14/2020 11:04:54 AM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69898

Last save: 1/28/2020 1:07:36 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  | 5.78             | 0.289          | 1.71            | 6.18        | 43.576            | 7.11      | 0. |
| 2  | 9.00             | 0.180          | 3.84            | 13.89       | 45.630            | 7.44      | 0. |
| 3  | 10.92            | 0.235          | 6.37            | 23.05       | 100.035           | 16.31     | 0. |
| 4  | 14.23            | 0.273          | 3.53            | 12.79       | 64.207            | 10.47     | 0. |
| 5  | 16.48            | 0.329          | 4.11            | 14.87       | 91.193            | 14.87     | 0. |
| 6  | 21.80            | 0.500          | 2.67            | 9.68        | 96.643            | 15.76     | 0. |
| 7  | 25.36            | 0.499          | 5.39            | 19.52       | 171.973           | 28.04     | 0. |
| 7  | 28.00            | 0.329          | 27.62           | 99.99       | 613.258           | 100.00    | 0. |

This report has been created by IC Net  
METROHM LTD

Report date: 2/17/2020 9:48:59 AM  
Printed by: wet

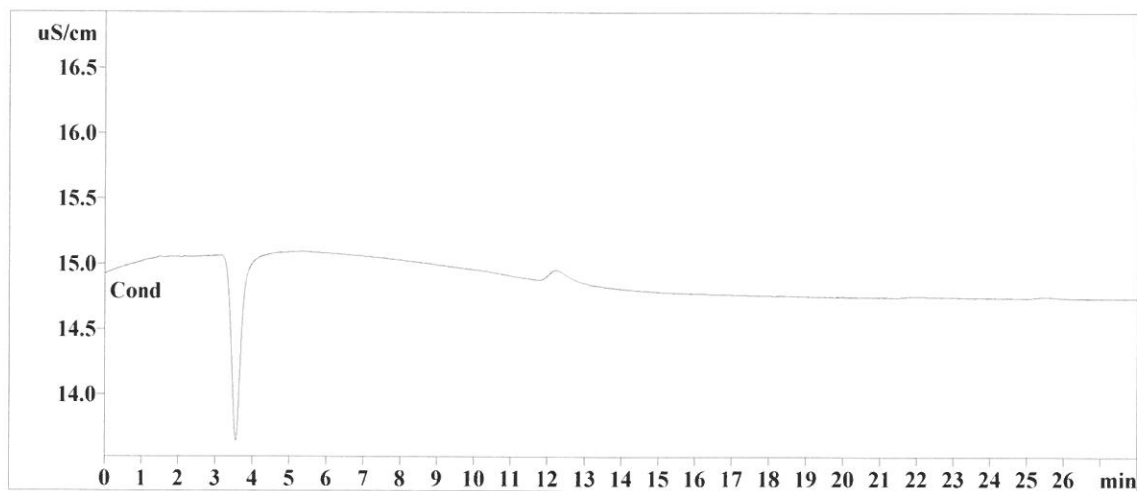
Ident: CCB  
Analysis from: 2/14/2020 11:08:09 AM  
File: \_2020-02-14\_

Last save: 2/14/2020 11:35:58 AM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69899

Last save: 1/28/2020 1:07:36 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  
METROHM LTD

Report date: 2/17/2020 9:49:12 AM  
Printed by: wet

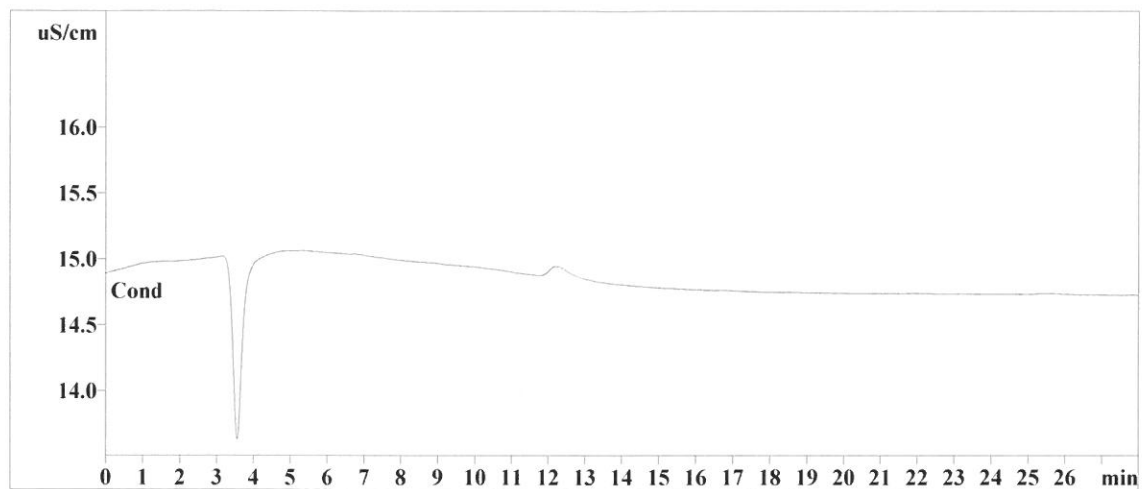
Ident: LB107773BLW  
Analysis from: 2/14/2020 11:39:03 AM  
File: \_2020-02-14\_

Last save: 2/17/2020 9:48:44 AM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69900

Last save: 1/28/2020 1:07:36 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: 2/17/2020 9:49:17 AM  
Printed by: wet

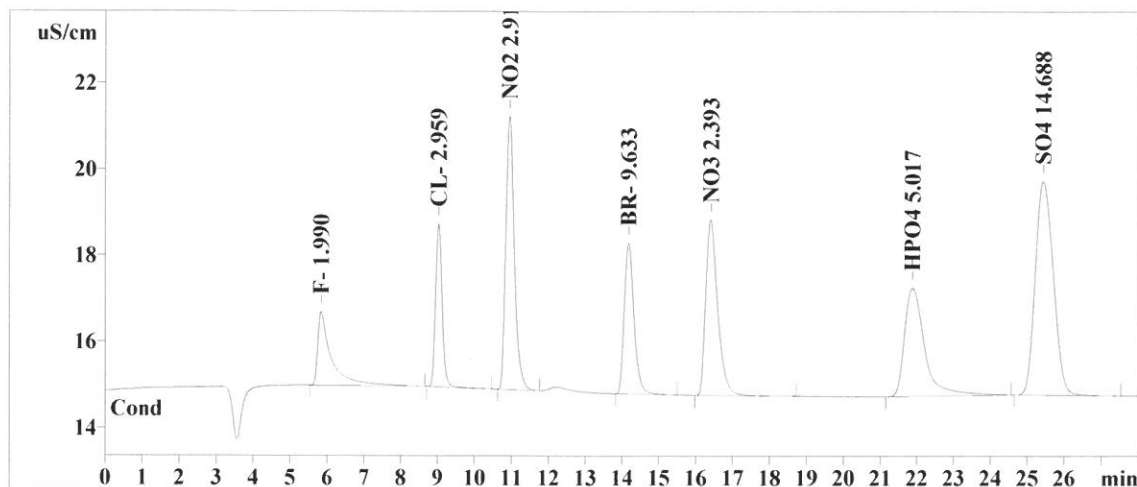
Ident: LB107773BSW  
Analysis from: 2/14/2020 12:09:58 PM  
File: \_2020-02-14\_

Last save: 2/17/2020 9:48:44 AM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69901

Last save: 1/28/2020 1:07:36 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  | 5.83             | 0.299          | 1.70            | 6.35        | 44.294            | 7.17      | 0. |
| 2  | 9.02             | 0.189          | 3.77            | 14.06       | 46.885            | 7.59      | 0. |
| 3  | 10.93            | 0.243          | 6.33            | 23.60       | 102.310           | 16.56     | 0. |
| 4  | 14.16            | 0.286          | 3.49            | 13.02       | 65.716            | 10.64     | 0. |
| 5  | 16.38            | 0.341          | 4.07            | 15.16       | 92.392            | 14.95     | 0. |
| 6  | 21.87            | 0.546          | 2.51            | 9.34        | 96.526            | 15.62     | 0. |
| 7  | 25.41            | 0.542          | 4.96            | 18.47       | 169.714           | 27.47     | 0. |
| 7  | 28.00            | 0.350          | 26.83           | 99.99       | 617.837           | 100.00    | 0. |

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METROHM LTD

Report date: 2/17/2020 9:49:31 AM  
Printed by: wet

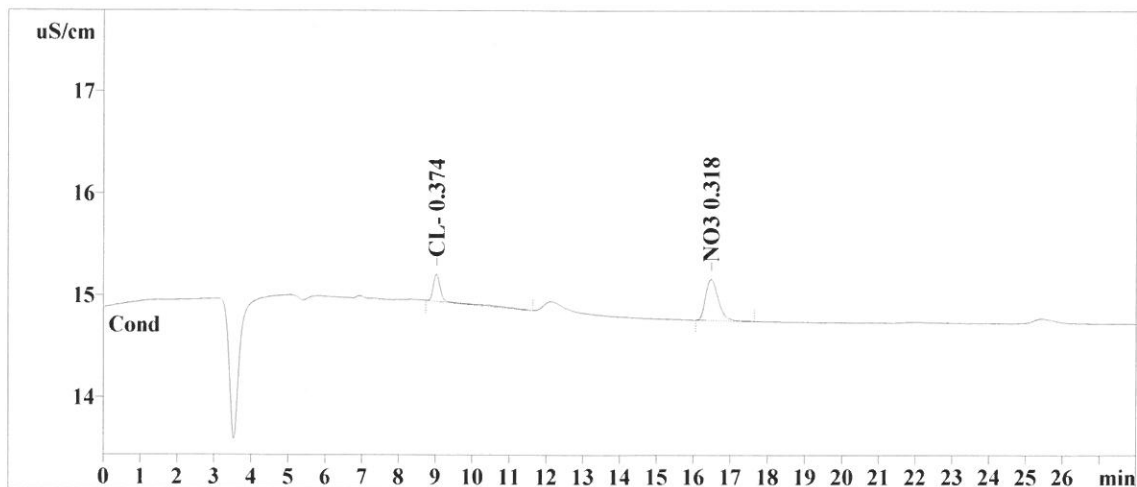
Ident: L1538-01  
Analysis from: 2/14/2020 1:42:42 PM  
File: \_2020-02-14\_

Last save: 2/14/2020 2:10:32 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69904

Last save: 1/28/2020 1:07:36 PM

SAMPLE:  
: AK/AP  
Vial number: 10  
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  | 9.02             | 0.201          | 0.26            | 39.54       | 4.330             | 30.87     | 0. |
| 3  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 4  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 5  | 16.46            | 0.369          | 0.40            | 60.33       | 9.695             | 69.13     | 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  | 28.00            | 0.081          | 0.66            | 99.87       | 14.025            | 100.00    | 0. |

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Report date: 2/17/2020 9:49:56 AM  
Printed by: wet

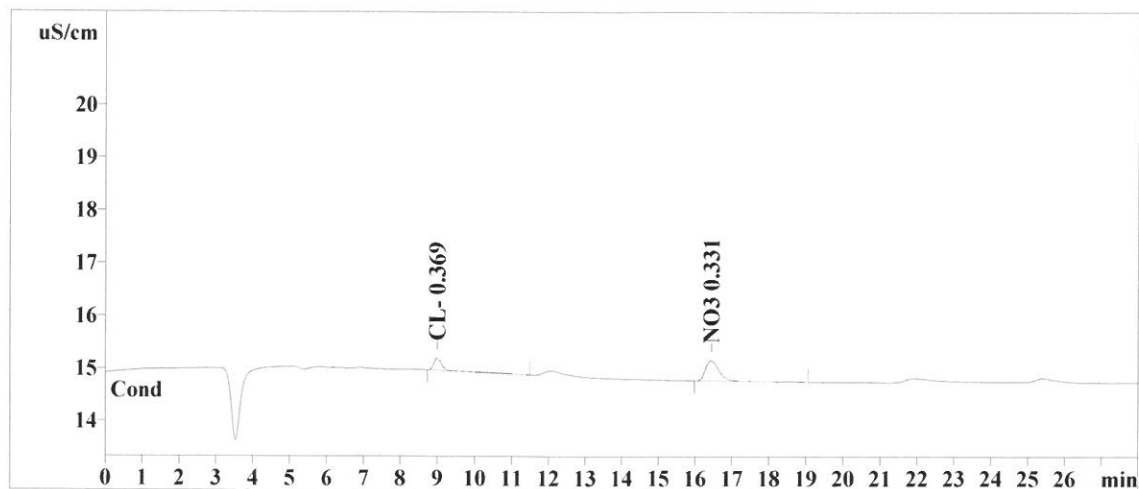
Ident: L1538-01DUP  
Analysis from: 2/14/2020 3:15:26 PM  
File: \_2020-02-14\_

Last save: 2/14/2020 3:43:14 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69907

Last save: 1/28/2020 1:07:36 PM

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  | 0.00             | 0.000          | 0.00            | 0.00        | 0.000             | 0.00      | 0. |
| 2  | 8.99             | 0.218          | 0.23            | 37.58       | 4.233             | 29.30     | 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  | 16.42            | 0.396          | 0.38            | 62.20       | 10.214            | 70.70     | 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  | 28.00            | 0.088          | 0.61            | 99.78       | 14.447            | 100.00    | 0. |

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Report date: 2/17/2020 9:50:09 AM  
Printed by: wet

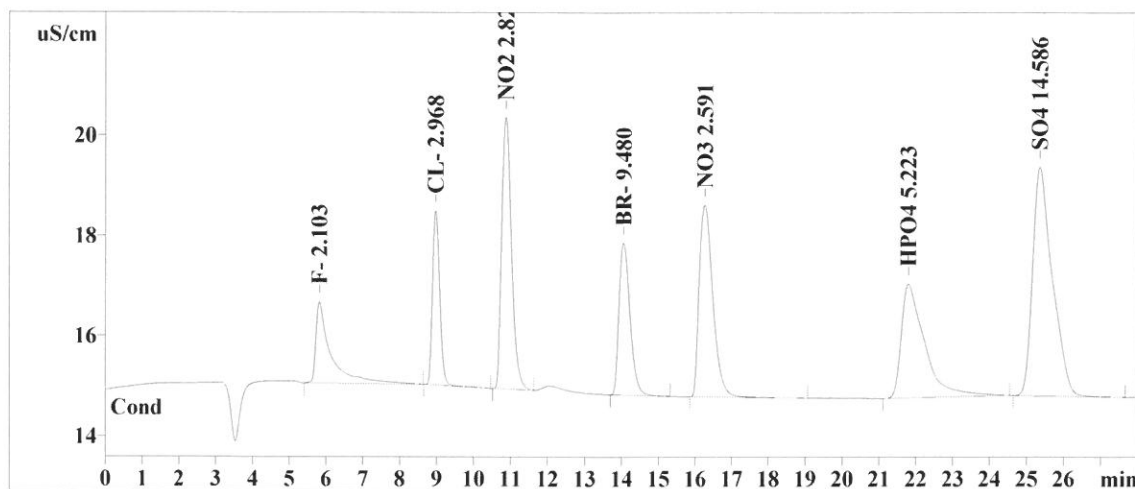
Ident: L1538-01MS  
Analysis from: 2/14/2020 3:46:21 PM  
File: \_2020-02-14\_

Last save: 2/14/2020 4:14:10 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69908

Last save: 1/28/2020 1:07:36 PM

SAMPLE:  
: AK/AP  
Vial number: 12  
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             | 0.317          | 1.62            | 6.69        | 46.865            | 7.48      | 0. |
| 2  | 8.96             | 0.210          | 3.47            | 14.35       | 47.034            | 7.50      | 0. |
| 3  | 10.86            | 0.282          | 5.42            | 22.40       | 99.224            | 15.83     | 0. |
| 4  | 14.04            | 0.331          | 3.03            | 12.53       | 64.647            | 10.31     | 0. |
| 5  | 16.25            | 0.405          | 3.82            | 15.80       | 100.303           | 16.00     | 0. |
| 6  | 21.79            | 0.646          | 2.27            | 9.38        | 100.314           | 16.00     | 0. |
| 7  | 25.35            | 0.561          | 4.56            | 18.85       | 168.477           | 26.88     | 0. |
| 7  | 28.00            | 0.393          | 24.18           | 99.99       | 626.863           | 100.00    | 0. |

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Report date: 2/17/2020 9:50:18 AM  
Printed by: wet

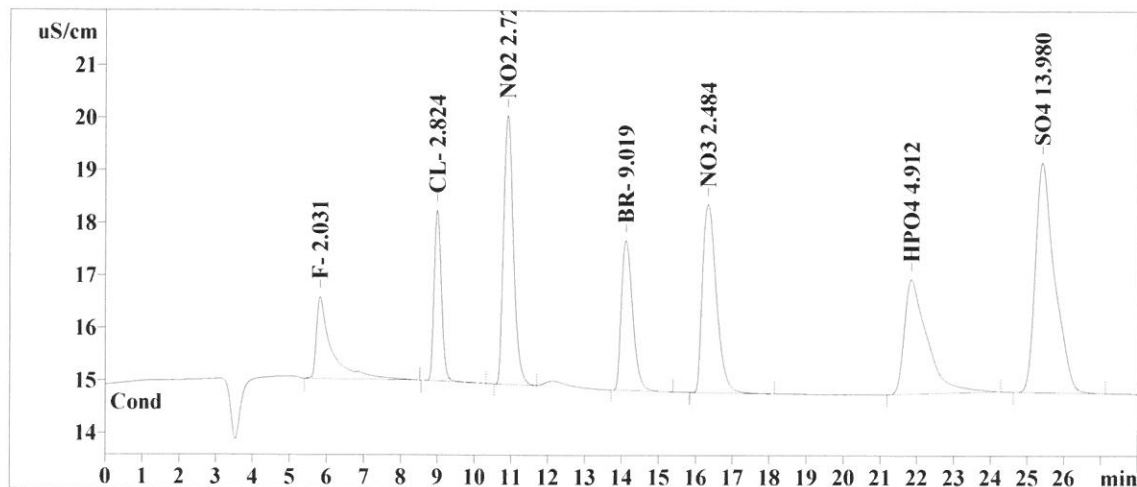
Ident: L1538-01MSD  
Analysis from: 2/14/2020 4:17:16 PM  
File: \_2020-02-14\_

Last save: 2/14/2020 4:52:00 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69909

Last save: 1/28/2020 1:07:36 PM

SAMPLE:  
: AK/AP  
Vial number: 13  
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             | 0.322          | 1.55            | 6.79        | 45.237            | 7.56      | 0. |
| 2  | 8.98             | 0.213          | 3.24            | 14.17       | 44.659            | 7.46      | 0. |
| 3  | 10.89            | 0.288          | 5.11            | 22.33       | 95.458            | 15.95     | 0. |
| 4  | 14.11            | 0.334          | 2.85            | 12.45       | 61.403            | 10.26     | 0. |
| 5  | 16.31            | 0.414          | 3.58            | 15.64       | 96.007            | 16.04     | 0. |
| 6  | 21.84            | 0.638          | 2.18            | 9.51        | 94.584            | 15.80     | 0. |
| 7  | 25.39            | 0.549          | 4.37            | 19.10       | 161.104           | 26.92     | 0. |
| 7  | 28.00            | 0.394          | 22.88           | 99.99       | 598.452           | 100.00    | 0. |

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Report date: 2/17/2020 9:51:10 AM  
Printed by: wet

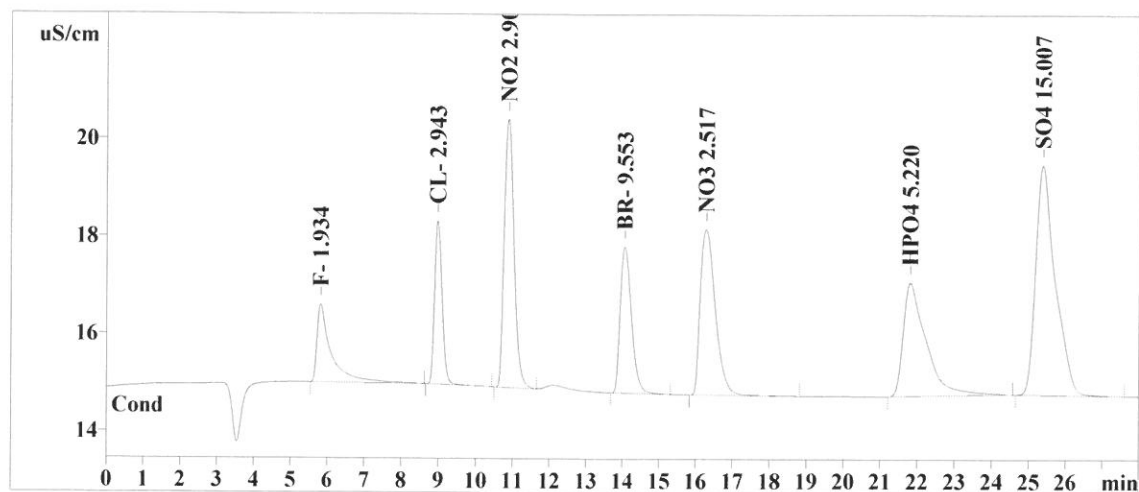
Ident: CCV  
Analysis from: 2/14/2020 4:48:10 PM  
File: \_2020-02-14\_

Last save: 2/14/2020 5:16:00 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69910

Last save: 1/28/2020 1:07:36 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             | 0.316          | 1.59            | 6.68        | 43.008            | 6.85      | 0. |
| 2  | 8.97             | 0.216          | 3.34            | 14.00       | 46.625            | 7.42      | 0. |
| 3  | 10.86            | 0.289          | 5.50            | 23.07       | 102.152           | 16.26     | 0. |
| 4  | 14.04            | 0.338          | 2.99            | 12.56       | 65.159            | 10.37     | 0. |
| 5  | 16.26            | 0.445          | 3.38            | 14.21       | 97.324            | 15.49     | 0. |
| 6  | 21.80            | 0.630          | 2.32            | 9.75        | 100.261           | 15.96     | 0. |
| 7  | 25.36            | 0.542          | 4.70            | 19.73       | 173.592           | 27.64     | 0. |
| 7  | 28.00            | 0.397          | 23.82           | 100.00      | 628.122           | 100.00    | 0. |

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METROHM LTD

Report date: 2/17/2020 9:51:20 AM  
Printed by: wet

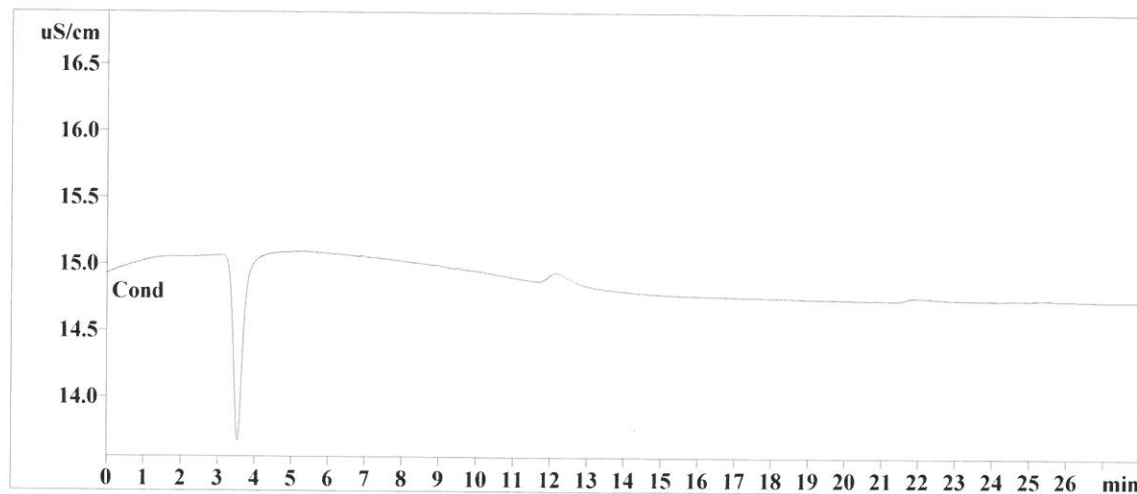
Ident: CCB  
Analysis from: 2/14/2020 5:19:05 PM  
File: \_2020-02-14\_

Last save: 2/14/2020 5:46:54 PM

Method: ANIONS 01-28-20.mtw  
Run operator: wet  
Analysis number: 69911

Last save: 1/28/2020 1:07:36 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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