

9056A soil MDL

IC-1

3.22-19 AO

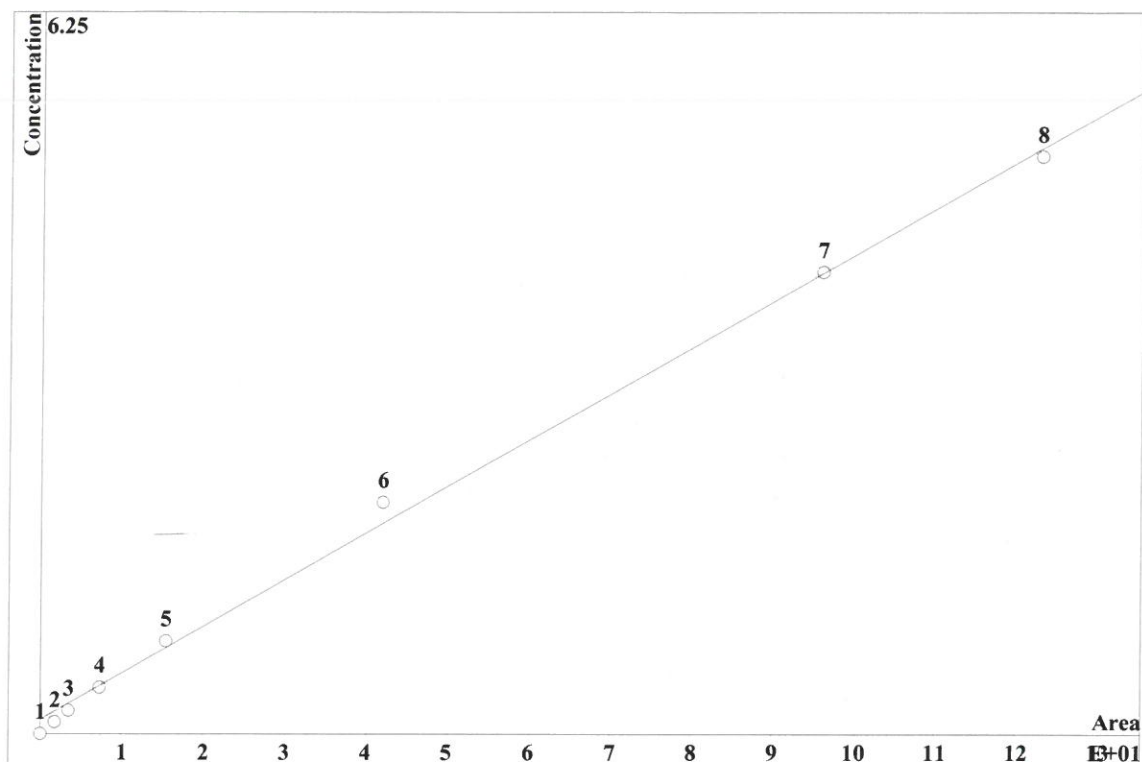
Clear table

| 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                | _2019-03-05_ | 3/5/19 16:02  |                          | AK/AP   |
| STD2        | 0.1950               | 0.2100                | 0.2250                | 0.7370                | 0.1900                | 0.0560                 | 1.2360                | _2019-03-05_ | 3/5/19 16:31  |                          | AK/AP   |
| STD3        | 0.2630               | 0.3490                | 0.3570                | 1.1810                | 0.3000                | 0.4170                 | 1.8370                | _2019-03-05_ | 3/5/19 17:01  |                          | AK/AP   |
| STD4        | 0.4150               | 0.6220                | 0.6150                | 2.0530                | 0.5150                | 1.0860                 | 3.1590                | _2019-03-05_ | 3/5/19 17:30  |                          | AK/AP   |
| STD5        | 0.7440               | 1.1630                | 1.1610                | 3.8570                | 0.9630                | 2.1770                 | 5.7470                | _2019-03-05_ | 3/5/19 18:00  |                          | AK/AP   |
| STD6        | 1.8190               | 2.8790                | 2.8470                | 9.5650                | 2.3800                | 5.1210                 | 14.0260               | _2019-03-05_ | 3/5/19 18:29  |                          | AK/AP   |
| STD7        | 3.9910               | 5.9160                | 5.9430                | 19.7310               | 4.9180                | 9.8910                 | 29.5330               | _2019-03-05_ | 3/5/19 18:59  |                          | AK/AP   |
| STD8        | 5.0720               | 7.6110                | 7.6010                | 25.3750               | 6.3580                | 12.5020                | 38.2110               | _2019-03-05_ | 3/5/19 19:28  |                          | AK/AP   |
| ICV         | 2.0300               | 2.9500                | 2.9330                | 9.6960                | 2.4100                | 5.4390                 | 14.2470               | _2019-03-05_ | 3/5/19 19:57  |                          | AK/AP   |
| ICB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | _2019-03-05_ | 3/5/19 20:27  |                          | AK/AP   |
| CCV         | 1.9740               | 2.8430                | 2.8500                | 9.5480                | 2.3530                | 5.0730                 | 14.1220               | _2019-03-22_ | 3/22/19 7:36  |                          | AK/AP   |
| CCB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | _2019-03-22_ | 3/22/19 8:09  |                          | AK/AP   |
| LB101555BLS | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | _2019-03-22_ | 3/22/19 8:38  | 5.01g/100m               | AK/AP   |
| LB101555BSS | 2.0550               | 2.9630                | 2.9390                | 9.8510                | 2.4260                | 5.4410                 | 14.4660               | _2019-03-22_ | 3/22/19 9:07  | 5.00g/100m               | AK/AP   |
| K1560-03    | 0.1730               | 0.2060                | 0.2140                | 0.7410                | 0.1780                | 0.0870                 | 1.2300                | _2019-03-22_ | 3/22/19 10:58 | 5.00g/100m               | AK/AP   |
| CCV         | 1.9670               | 2.8820                | 2.8040                | 9.5790                | 2.3820                | 5.4230                 | 14.6900               | _2019-03-22_ | 3/22/19 11:27 |                          | AK/AP   |
| CCB         | 0.0000               | 0.0000                | 0.0000                | 0.0000                | 0.0000                | 0.0000                 | 0.0000                | _2019-03-22_ | 3/22/19 11:56 |                          | AK/AP   |

CALIBRATION OF COMPONENT F-

Method: ANIONS 03-05-19.mtw  
 Equation:  $Q = 0.804925 \cdot A + 2.50321$   
 RSD: 5.846 %  
 Correlation coefficient: 0.998841

IC-1 ~~8-0~~  
 Col 03-05-19  
 AR



K3 = 0      K2 = 0      K1 = 0.804925      K0 = 2.50321

Base: Area

Ref.channel: Cond

ISTD:

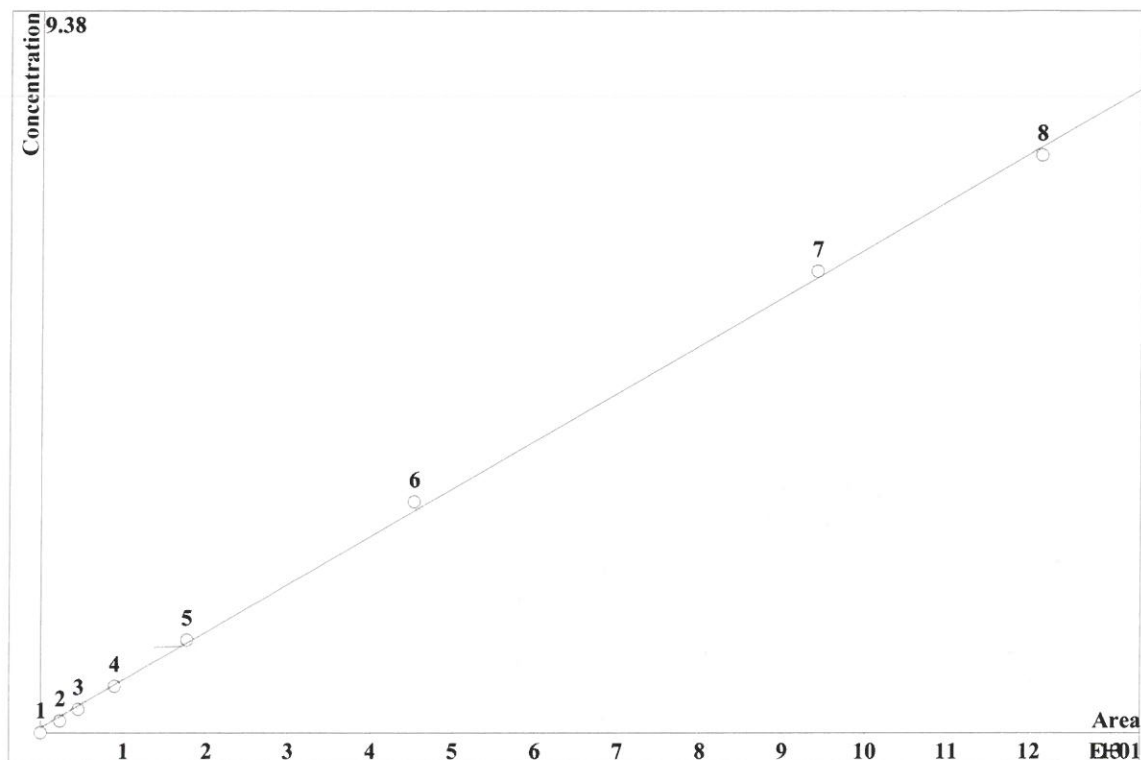
Formula: Linear

Weight: 1

| Level | Height  | Area  | Conc. | Vol/Dil | Retention | Used | File |     |
|-------|---------|-------|-------|---------|-----------|------|------|-----|
| 1     | 0       | 0     | 0     | 0       | 0         |      | 0    | No  |
| 2     | 0.05848 | 1.744 | 0.1   | 20      | 5.913     |      |      | Yes |
| 3     | 0.1245  | 3.437 | 0.2   | 20      | 5.913     |      |      | Yes |
| 4     | 0.2695  | 7.209 | 0.4   | 20      | 5.913     |      |      | Yes |
| 5     | 0.5744  | 15.37 | 0.8   | 20      | 5.913     |      |      | Yes |
| 6     | 1.596   | 42.09 | 2     | 20      | 5.913     |      |      | Yes |
| 7     | 3.504   | 96.06 | 4     | 20      | 5.913     |      |      | Yes |
| 8     | 4.463   | 122.9 | 5     | 20      | 5.913     |      |      | Yes |

CALIBRATION OF COMPONENT CL-

Method: ANIONS 03-05-19.mtw  
 Equation:  $Q = 1.24374 \cdot A + 1.27387$   
 RSD: 3.431 %  
 Correlation coefficient: 0.999601



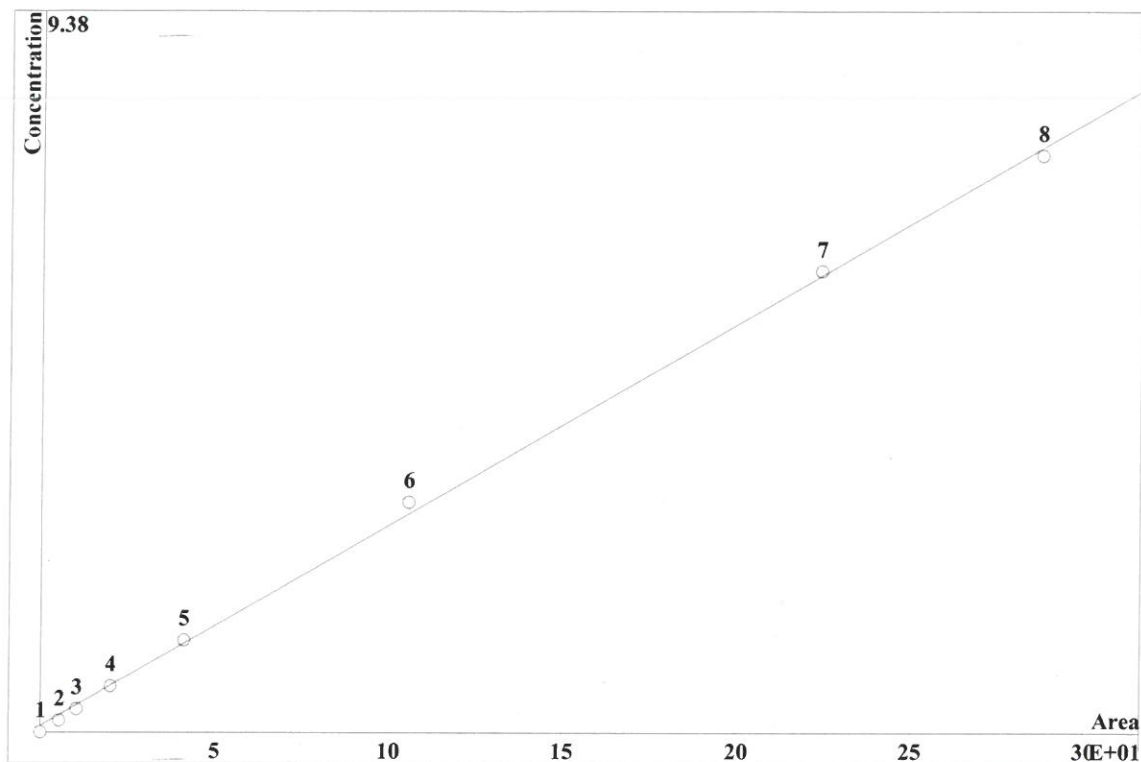
K3 = 0      K2 = 0      K1 = 1.24374      K0 = 1.27387

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     | 0.1378 | 2.359 | 0.15  | 20      | 8.858     |      |      | Yes |
| 3     | 0.2672 | 4.595 | 0.3   | 20      | 8.858     |      |      | Yes |
| 4     | 0.5199 | 8.974 | 0.6   | 20      | 8.858     |      |      | Yes |
| 5     | 1.042  | 17.67 | 1.2   | 20      | 8.858     |      |      | Yes |
| 6     | 2.693  | 45.27 | 3     | 20      | 8.858     |      |      | Yes |
| 7     | 5.632  | 94.1  | 6     | 20      | 8.858     |      |      | Yes |
| 8     | 7.317  | 121.4 | 7.5   | 20      | 8.858     |      |      | Yes |

CALIBRATION OF COMPONENT NO2

Method: ANIONS 03-05-19.mtw  
 Equation:  $Q = 0.523191 \cdot A + 1.70358$   
 RSD: 3.640 %  
 Correlation coefficient: 0.999551



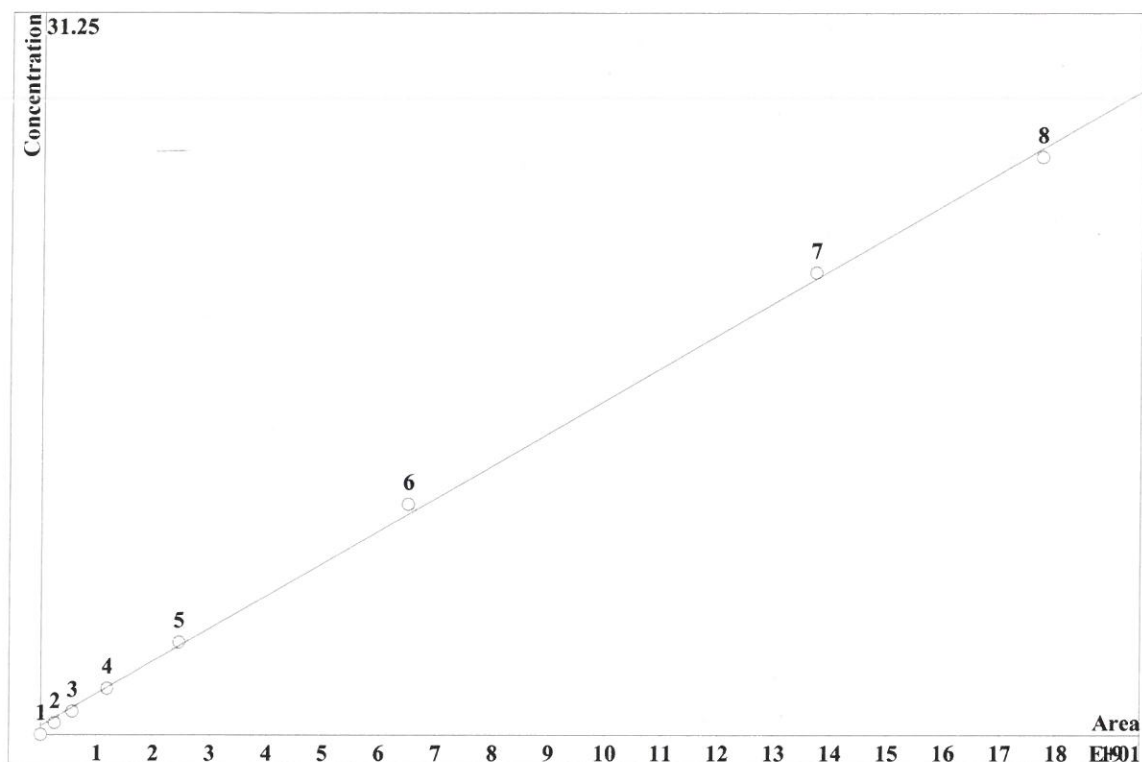
K3 = 0      K2 = 0      K1 = 0.523191      K0 = 1.70358

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     | 0.2585 | 5.357 | 0.15  | 20      | 10.65     |      |      | Yes |
| 3     | 0.5158 | 10.38 | 0.3   | 20      | 10.65     |      |      | Yes |
| 4     | 1.042  | 20.25 | 0.6   | 20      | 10.65     |      |      | Yes |
| 5     | 2.128  | 41.14 | 1.2   | 20      | 10.65     |      |      | Yes |
| 6     | 5.551  | 105.6 | 3     | 20      | 10.65     |      |      | Yes |
| 7     | 11.6   | 223.9 | 6     | 20      | 10.65     |      |      | Yes |
| 8     | 14.93  | 287.3 | 7.5   | 20      | 10.65     |      |      | Yes |

CALIBRATION OF COMPONENT BR-

Method: ANIONS 03-05-19.mtw  
 Equation:  $Q = 2.82009 \cdot A + 7.76849$   
 RSD: 3.594 %  
 Correlation coefficient: 0.999562



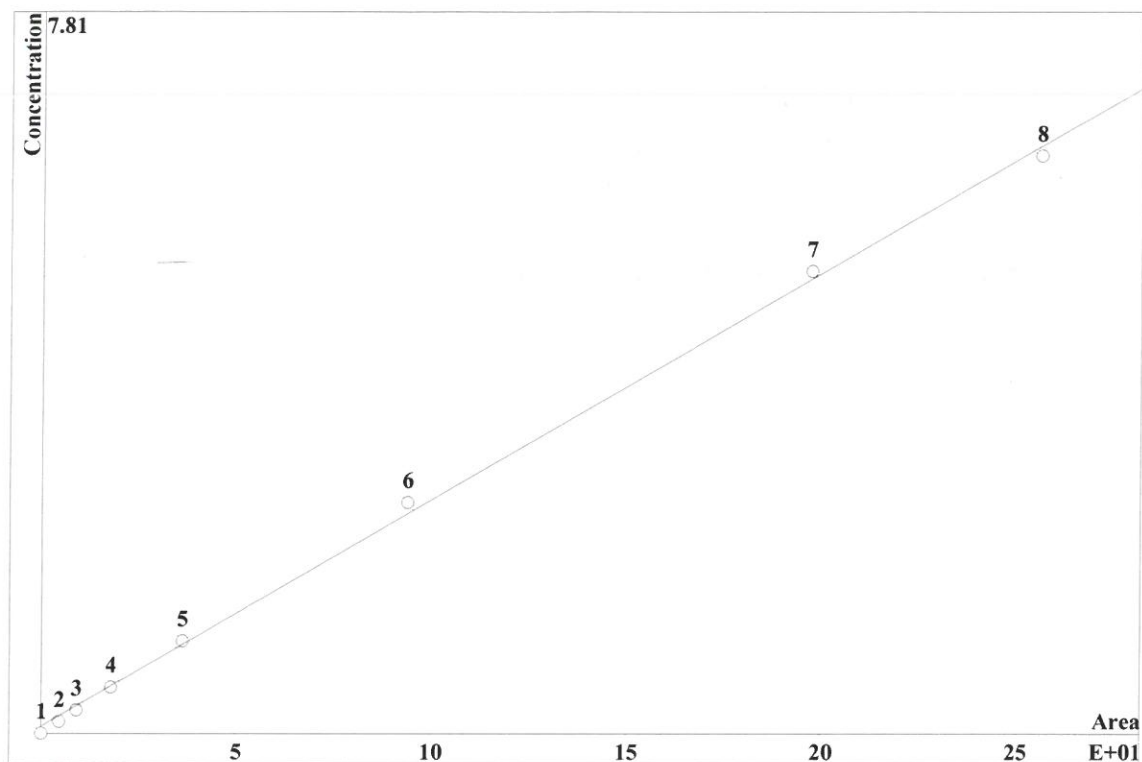
K3 = 0    K2 = 0    K1 = 2.82009    K0 = 7.76849

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     | 0.1234 | 2.473 | 0.5   | 20      | 13.72     |      |      | Yes |
| 3     | 0.2646 | 5.624 | 1     | 20      | 13.72     |      |      | Yes |
| 4     | 0.5553 | 11.81 | 2     | 20      | 13.72     |      |      | Yes |
| 5     | 1.14   | 24.6  | 4     | 20      | 13.72     |      |      | Yes |
| 6     | 2.942  | 65.08 | 10    | 20      | 13.72     |      |      | Yes |
| 7     | 5.927  | 137.2 | 20    | 20      | 13.72     |      |      | Yes |
| 8     | 7.449  | 177.2 | 25    | 20      | 13.72     |      |      | Yes |

CALIBRATION OF COMPONENT NO3

Method: ANIONS 03-05-19.mtw  
 Equation:  $Q = 0.490563 \cdot A + 1.54373$   
 RSD: 4.068 %  
 Correlation coefficient: 0.999439



K3 = 0      K2 = 0      K1 = 0.490563      K0 = 1.54373

Base: Area

Ref.channel: Cond

ISTD:

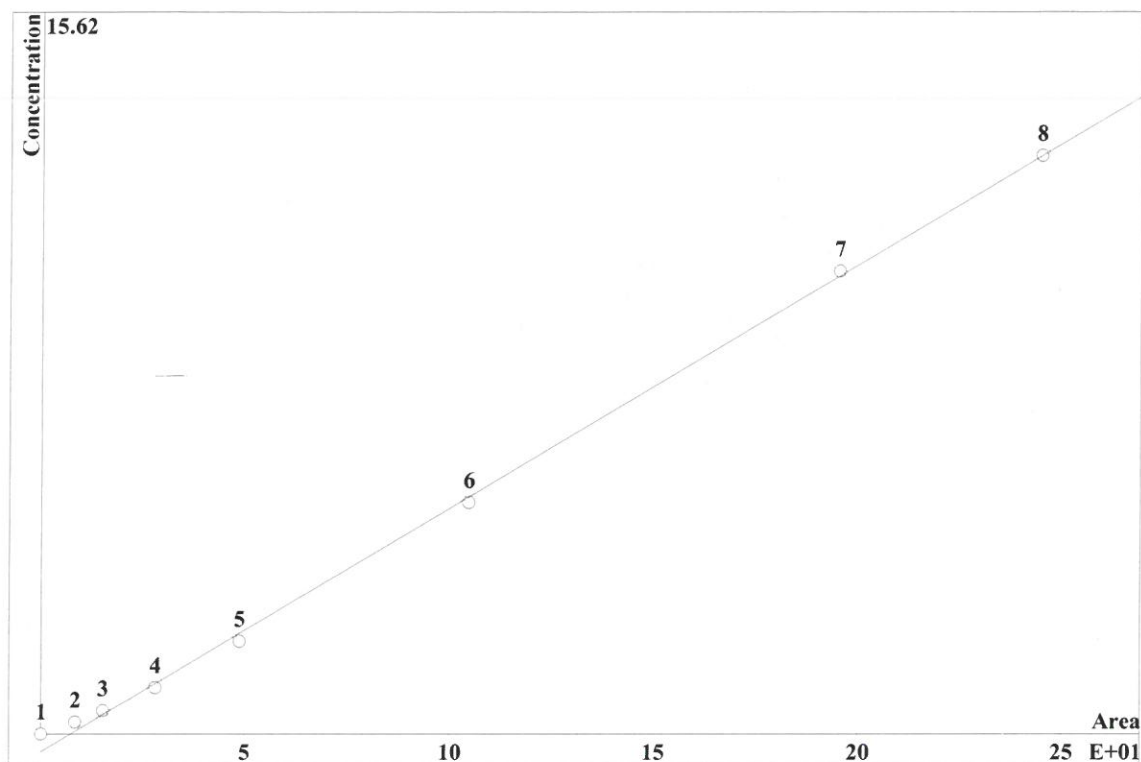
Formula: Linear

Weight: 1

| Level | Height | Area  | Conc. | Vol/Dil | Retention | Used | File |     |
|-------|--------|-------|-------|---------|-----------|------|------|-----|
| 1     | 0      | 0     | 0     | 0       | 0         |      |      | No  |
| 2     | 0.1812 | 4.602 | 0.125 | 20      | 15.65     |      |      | Yes |
| 3     | 0.3607 | 9.092 | 0.25  | 20      | 15.65     |      |      | Yes |
| 4     | 0.7284 | 17.86 | 0.5   | 20      | 15.65     |      |      | Yes |
| 5     | 1.48   | 36.13 | 1     | 20      | 15.65     |      |      | Yes |
| 6     | 3.872  | 93.87 | 2.5   | 20      | 15.65     |      |      | Yes |
| 7     | 8.278  | 197.4 | 5     | 20      | 15.65     |      |      | Yes |
| 8     | 10.82  | 256.1 | 6.25  | 20      | 15.65     |      |      | Yes |

CALIBRATION OF COMPONENT HPO4

Method: ANIONS 03-05-19.mtw  
 Equation:  $Q = 1.05291 \cdot A - 7.73973$   
 RSD: 3.321 %  
 Correlation coefficient: 0.999626



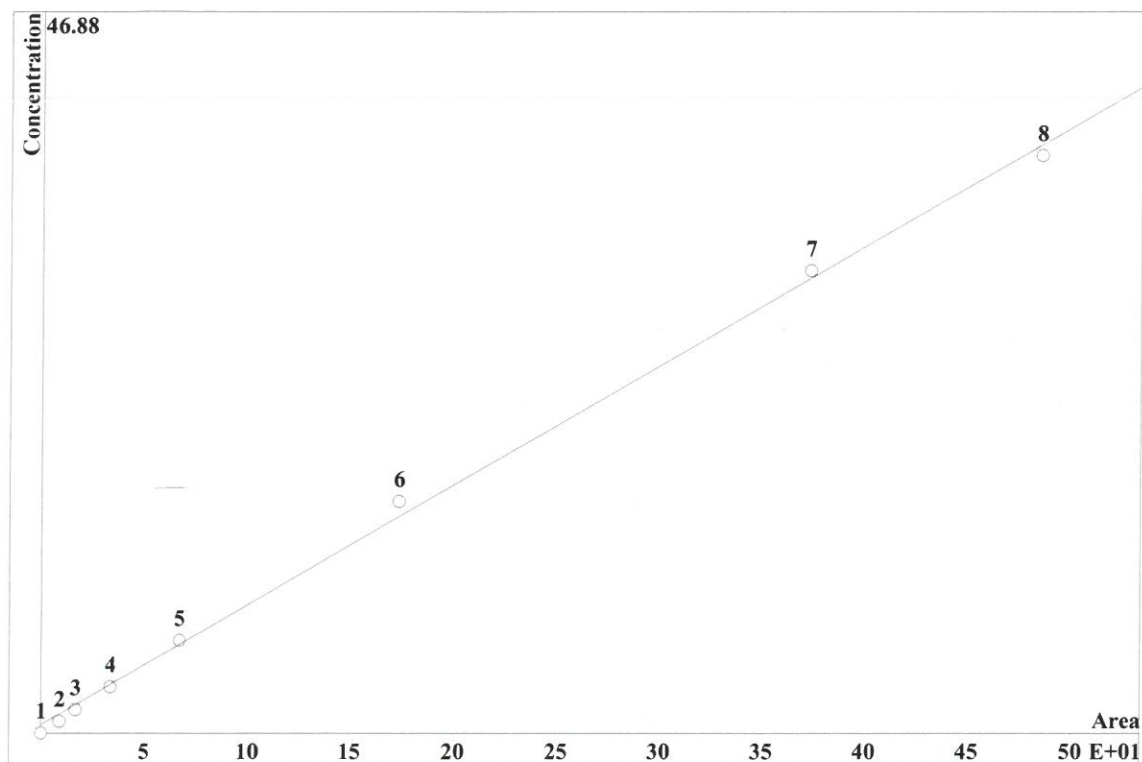
K3 = 0      K2 = 0      K1 = 1.05291      K0 = -7.73973

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     | 0.185  | 8.412 | 0.25  | 20      | 21.48     | Yes  |      |    |
| 3     | 0.3481 | 15.27 | 0.5   | 20      | 21.48     | Yes  |      |    |
| 4     | 0.6551 | 27.98 | 1     | 20      | 21.48     | Yes  |      |    |
| 5     | 1.199  | 48.71 | 2     | 20      | 21.48     | Yes  |      |    |
| 6     | 2.752  | 104.6 | 5     | 20      | 21.48     | Yes  |      |    |
| 7     | 5.446  | 195.2 | 10    | 20      | 21.48     | Yes  |      |    |
| 8     | 6.973  | 244.8 | 12.5  | 20      | 21.48     | Yes  |      |    |

## CALIBRATION OF COMPONENT SO4

Method: ANIONS 03-05-19.mtw  
 Equation:  $Q = 1.55143 \cdot A + 10.9562$   
 RSD: 4.851 %  
 Correlation coefficient: 0.999202



K3 = 0      K2 = 0      K1 = 1.55143      K0 = 10.9562

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     | 0.276  | 8.873 | 0.75  | 20      | 25.17     |      |      | Yes |
| 3     | 0.539  | 16.62 | 1.5   | 20      | 25.17     |      |      | Yes |
| 4     | 1.084  | 33.66 | 3     | 20      | 25.17     |      |      | Yes |
| 5     | 2.197  | 67.03 | 6     | 20      | 25.17     |      |      | Yes |
| 6     | 5.818  | 173.8 | 15    | 20      | 25.17     |      |      | Yes |
| 7     | 12.54  | 373.7 | 30    | 20      | 25.17     |      |      | Yes |
| 8     | 16.37  | 485.5 | 37.5  | 20      | 25.17     |      |      | Yes |

Report date: 3/6/2019 8:51:35 AM  
Printed by: wet

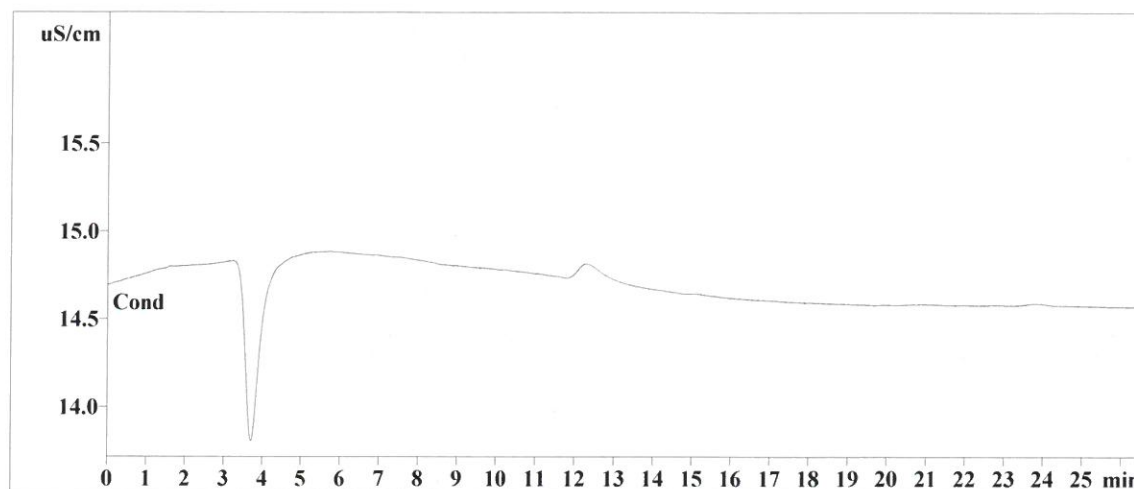
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Analysis from: 3/5/2019 4:02:28 PM  
File: \_2019-03-05\_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65511

Last save: 3/5/2019 7:25:20 PM

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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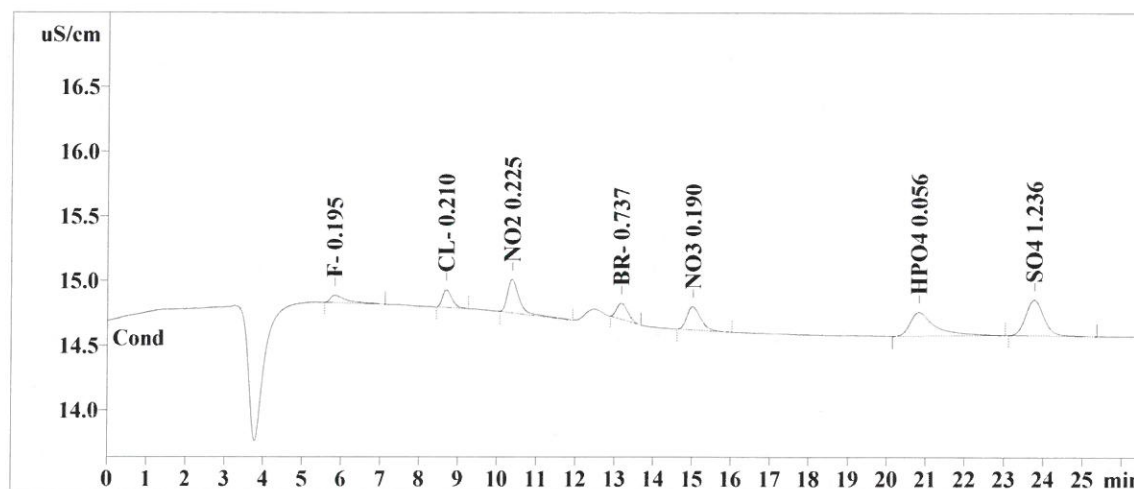
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Analysis from: 3/5/2019 4:31:54 PM  
File: \_2019-03-05\_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65512

Last save: 3/5/2019 7:25:20 PM

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  | 5.82             | 0.390          | 0.06            | 4.74        | 1.744             | 5.16      | 0. |
| 2  | 8.70             | 0.260          | 0.14            | 11.22       | 2.359             | 6.98      | 0. |
| 3  | 10.38            | 0.289          | 0.26            | 21.16       | 5.357             | 15.84     | 0. |
| 4  | 13.17            | 0.321          | 0.12            | 10.08       | 2.473             | 7.31      | 0. |
| 5  | 15.01            | 0.385          | 0.18            | 14.80       | 4.602             | 13.61     | 0. |
| 6  | 20.82            | 0.594          | 0.18            | 15.11       | 8.412             | 24.87     | 0. |
| 7  | 23.76            | 0.483          | 0.28            | 22.57       | 8.873             | 26.24     | 0. |
| 7  | 26.50            | 0.389          | 1.22            | 99.68       | 33.820            | 100.00    | 0. |

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Report date: 3/6/2019 8:51:55 AM  
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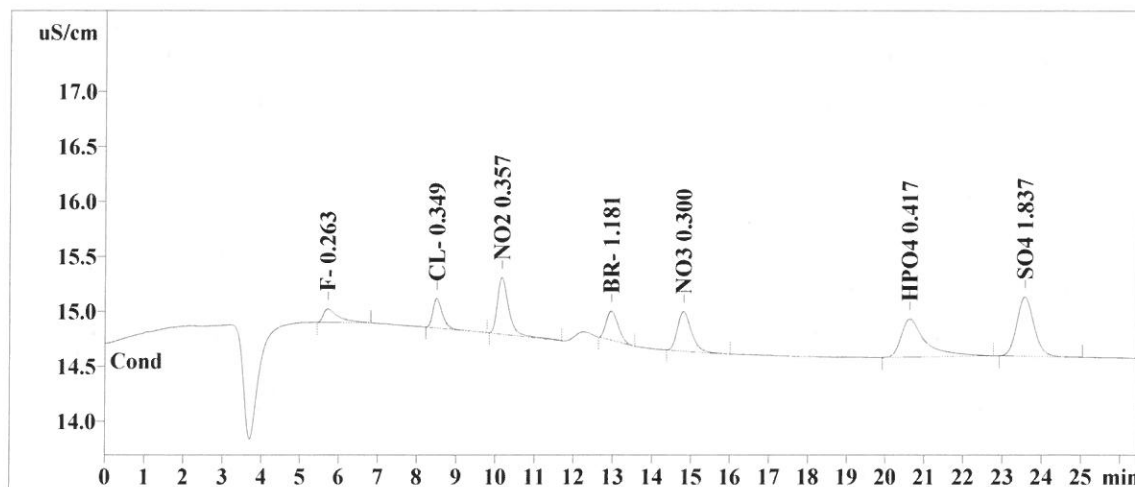
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Analysis from: 3/5/2019 5:01:19 PM  
File: \_2019-03-05\_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65513

Last save: 3/5/2019 7:25:20 PM

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  | 5.70             | 0.378          | 0.12            | 5.12        | 3.437             | 5.29      | 0. |
| 2  | 8.50             | 0.257          | 0.27            | 11.02       | 4.595             | 7.07      | 0. |
| 3  | 10.16            | 0.287          | 0.52            | 21.30       | 10.378            | 15.96     | 0. |
| 4  | 12.96            | 0.336          | 0.26            | 10.91       | 5.624             | 8.65      | 0. |
| 5  | 14.80            | 0.381          | 0.36            | 14.90       | 9.092             | 13.99     | 0. |
| 6  | 20.62            | 0.573          | 0.35            | 14.37       | 15.268            | 23.49     | 0. |
| 7  | 23.56            | 0.469          | 0.54            | 22.25       | 16.617            | 25.56     | 0. |
| 7  | 26.50            | 0.383          | 2.42            | 99.87       | 65.009            | 100.00    | 0. |

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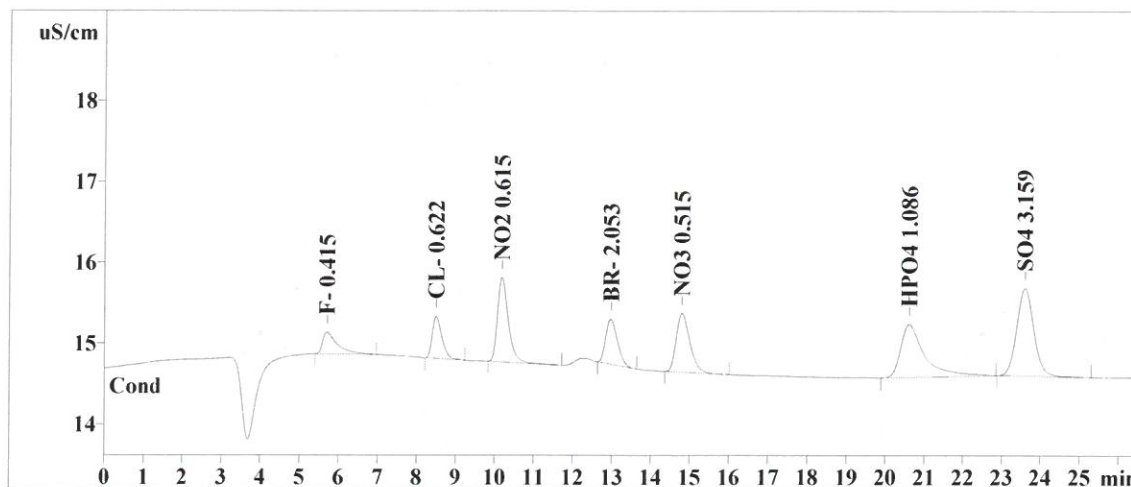
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Analysis from: 3/5/2019 5:30:44 PM  
File: \_2019-03-05\_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65514

Last save: 3/5/2019 7:25:20 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  | 5.69             | 0.365          | 0.27            | 5.54        | 7.209             | 5.64      | 0. |
| 2  | 8.50             | 0.262          | 0.52            | 10.69       | 8.974             | 7.03      | 0. |
| 3  | 10.18            | 0.286          | 1.04            | 21.47       | 20.252            | 15.85     | 0. |
| 4  | 12.97            | 0.334          | 0.55            | 11.43       | 11.807            | 9.24      | 0. |
| 5  | 14.80            | 0.374          | 0.73            | 14.99       | 17.858            | 13.98     | 0. |
| 6  | 20.61            | 0.561          | 0.65            | 13.48       | 27.979            | 21.90     | 0. |
| 7  | 23.59            | 0.471          | 1.08            | 22.32       | 33.663            | 26.35     | 0. |
| 7  | 26.50            | 0.379          | 4.85            | 99.92       | 127.743           | 100.00    | 0. |

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Report date: 3/6/2019 8:52:08 AM  
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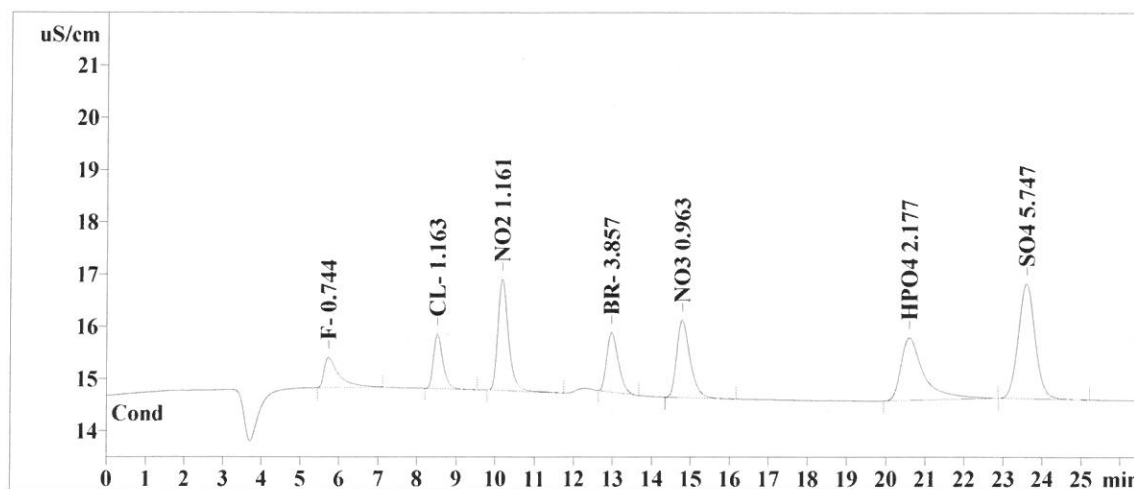
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Analysis from: 3/5/2019 6:00:09 PM  
File: \_2019-03-05\_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65515

Last save: 3/5/2019 7:25:20 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  | 5.71             | 0.363          | 0.57            | 5.87        | 15.370            | 6.13      | 0. |
| 2  | 8.51             | 0.254          | 1.04            | 10.68       | 17.672            | 7.05      | 0. |
| 3  | 10.17            | 0.284          | 2.13            | 21.80       | 41.139            | 16.41     | 0. |
| 4  | 12.97            | 0.337          | 1.14            | 11.68       | 24.601            | 9.82      | 0. |
| 5  | 14.78            | 0.370          | 1.48            | 15.16       | 36.130            | 14.41     | 0. |
| 6  | 20.59            | 0.537          | 1.20            | 12.29       | 48.709            | 19.43     | 0. |
| 7  | 23.57            | 0.465          | 2.20            | 22.50       | 67.028            | 26.74     | 0. |
| 7  | 26.50            | 0.373          | 9.76            | 99.98       | 250.651           | 100.00    | 0. |

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Report date: 3/6/2019 8:52:15 AM  
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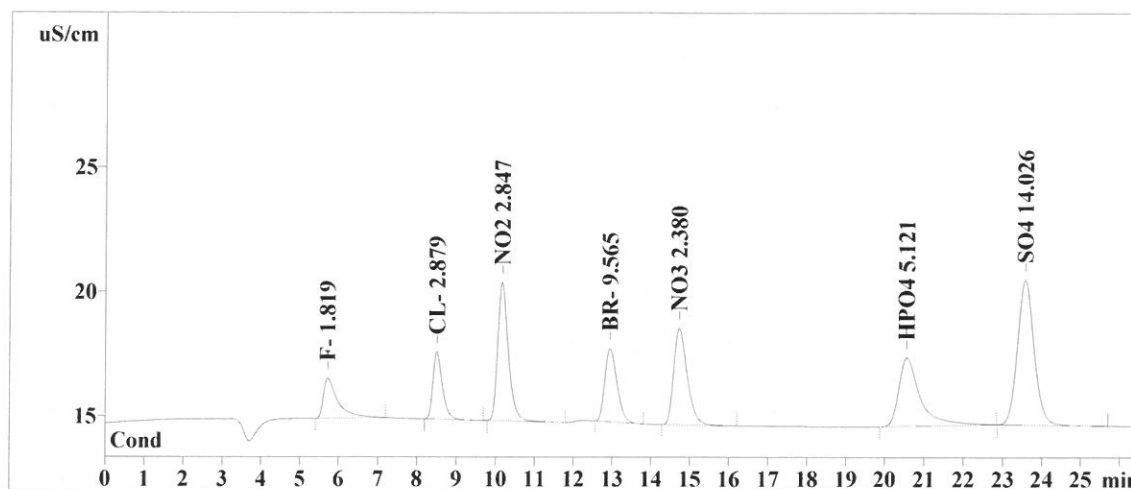
Ident: STD6  
Analysis from: 3/5/2019 6:29:34 PM  
File: \_2019-03-05\_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65516

Last save: 3/5/2019 7:25:20 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  | 5.71             | 0.358          | 1.60            | 6.32        | 42.090            | 6.68      | 0. |
| 2  | 8.50             | 0.251          | 2.69            | 10.67       | 45.265            | 7.18      | 0. |
| 3  | 10.15            | 0.282          | 5.55            | 22.00       | 105.573           | 16.75     | 0. |
| 4  | 12.94            | 0.345          | 2.94            | 11.66       | 65.077            | 10.33     | 0. |
| 5  | 14.72            | 0.367          | 3.87            | 15.35       | 93.867            | 14.89     | 0. |
| 6  | 20.56            | 0.508          | 2.75            | 10.91       | 104.625           | 16.60     | 0. |
| 7  | 23.56            | 0.454          | 5.82            | 23.06       | 173.754           | 27.57     | 0. |
| 7  | 26.50            | 0.366          | 25.22           | 99.99       | 630.251           | 100.00    | 0. |

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Report date: 3/6/2019 8:52:22 AM  
Printed by: wet

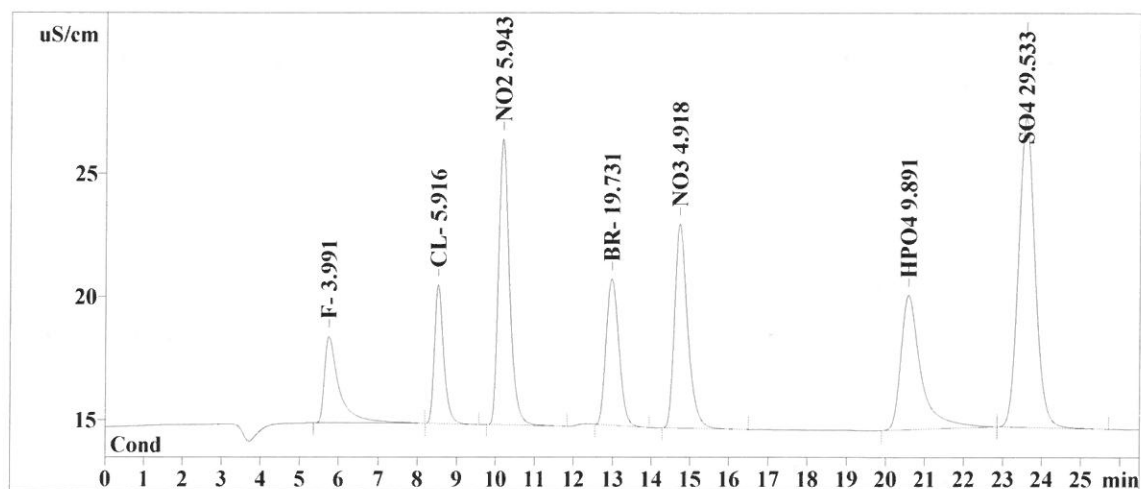
Ident: STD7  
Analysis from: 3/5/2019 6:59:00 PM  
File: \_2019-03-05\_

Last save: 3/6/2019 8:40:40 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65517

Last save: 3/5/2019 7:25:20 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  | 5.73             | 0.357          | 3.50            | 6.62        | 96.056            | 7.29      | 0. |
| 2  | 8.53             | 0.249          | 5.63            | 10.64       | 94.102            | 7.14      | 0. |
| 3  | 10.17            | 0.287          | 11.60           | 21.91       | 223.939           | 17.00     | 0. |
| 4  | 12.97            | 0.363          | 5.93            | 11.20       | 137.180           | 10.41     | 0. |
| 5  | 14.72            | 0.358          | 8.28            | 15.64       | 197.370           | 14.98     | 0. |
| 6  | 20.57            | 0.486          | 5.45            | 10.29       | 195.238           | 14.82     | 0. |
| 7  | 23.58            | 0.452          | 12.54           | 23.69       | 373.664           | 28.36     | 0. |
| 7  | 26.50            | 0.365          | 52.92           | 100.00      | 1317.548          | 100.00    | 0. |

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Report date: 3/6/2019 8:52:32 AM  
Printed by: wet

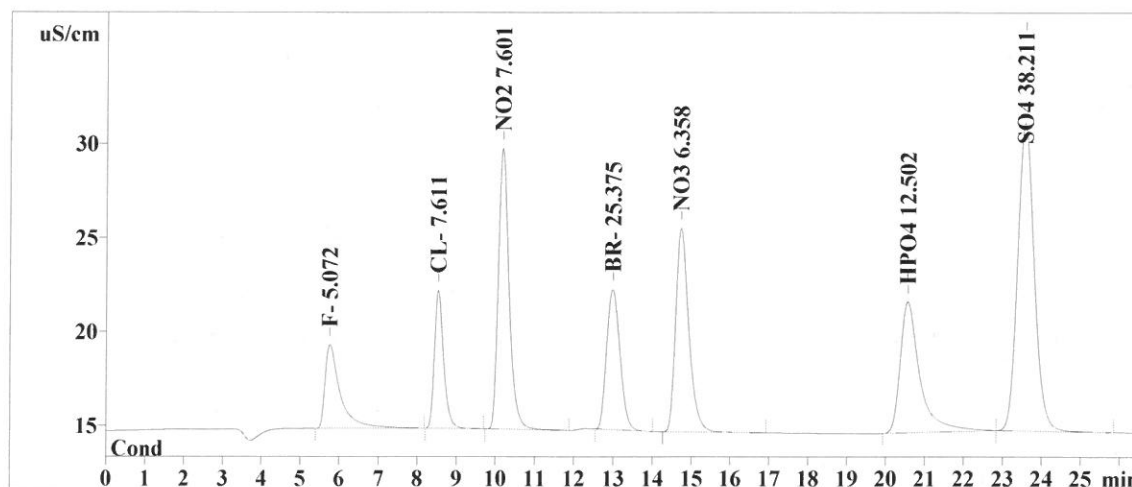
Ident: STD8  
Analysis from: 3/5/2019 7:28:25 PM  
File: \_2019-03-05\_

Last save: 3/6/2019 8:41:52 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65518

Last save: 3/6/2019 8:41:34 AM

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  | 5.75             | 0.366          | 4.46            | 6.53        | 122.913           | 7.25      | 0. |
| 2  | 8.53             | 0.247          | 7.32            | 10.71       | 121.372           | 7.16      | 0. |
| 3  | 10.17            | 0.285          | 14.93           | 21.85       | 287.324           | 16.95     | 0. |
| 4  | 12.98            | 0.375          | 7.45            | 10.90       | 177.205           | 10.45     | 0. |
| 5  | 14.71            | 0.356          | 10.82           | 15.84       | 256.077           | 15.11     | 0. |
| 6  | 20.55            | 0.478          | 6.97            | 10.21       | 244.820           | 14.44     | 0. |
| 7  | 23.56            | 0.451          | 16.37           | 23.95       | 485.529           | 28.64     | 0. |
| 7  | 26.50            | 0.365          | 68.32           | 100.00      | 1695.239          | 100.00    | 0. |

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Report date: 3/6/2019 8:52:42 AM  
Printed by: wet

Ident: ICV  
Analysis from: 3/5/2019 7:57:50 PM  
File: \_2019-03-05\_

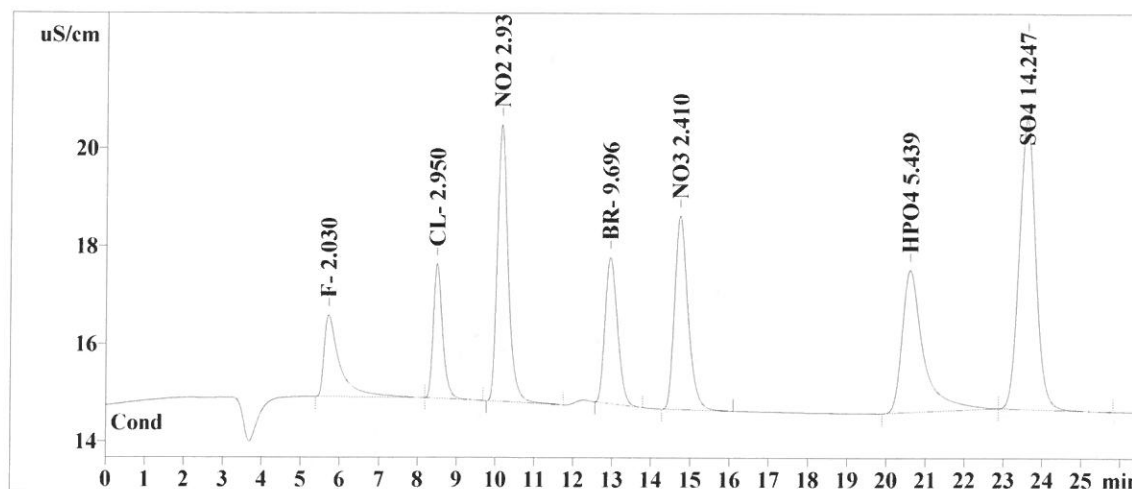
Last save: 3/6/2019 8:41:52 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65519

Last save: 3/6/2019 8:41:34 AM

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  | 5.70             | 0.364          | 1.66            | 6.43        | 47.318            | 7.27      | 0. |
| 2  | 8.48             | 0.252          | 2.75            | 10.63       | 46.407            | 7.13      | 0. |
| 3  | 10.14            | 0.284          | 5.66            | 21.88       | 108.852           | 16.72     | 0. |
| 4  | 12.94            | 0.345          | 2.99            | 11.56       | 66.007            | 10.14     | 0. |
| 5  | 14.72            | 0.364          | 3.95            | 15.29       | 95.092            | 14.61     | 0. |
| 6  | 20.59            | 0.509          | 2.91            | 11.25       | 110.672           | 17.00     | 0. |
| 7  | 23.58            | 0.452          | 5.93            | 22.95       | 176.602           | 27.13     | 0. |
| 7  | 26.50            | 0.367          | 25.85           | 99.99       | 650.950           | 100.00    | 0. |

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Report date: 3/6/2019 8:52:53 AM  
Printed by: wet

Ident: ICB  
Analysis from: 3/5/2019 8:27:15 PM  
File: \_2019-03-05\_

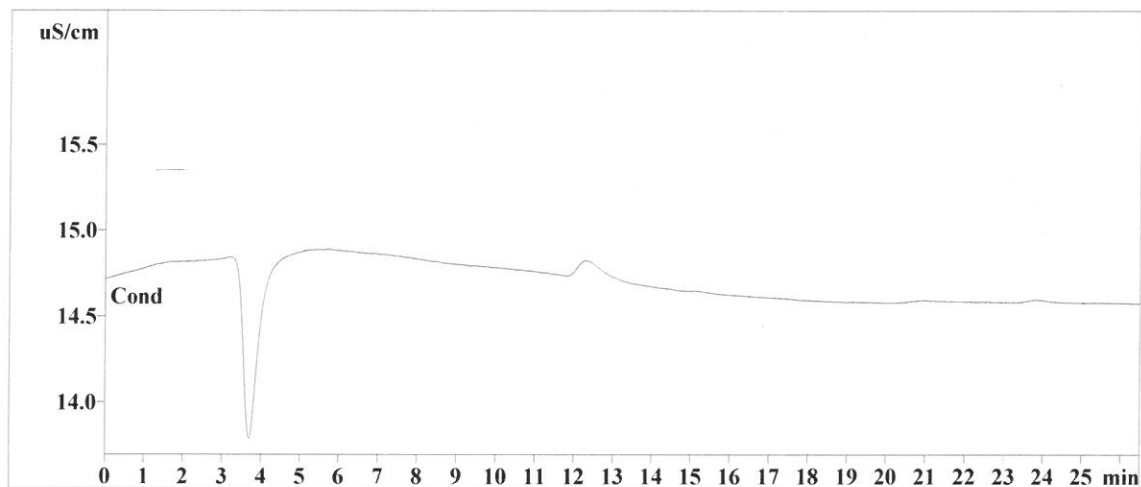
Last save: 3/6/2019 8:41:52 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 65520

Last save: 3/6/2019 8:41:34 AM

SAMPLE:

: AK/AP  
Vial number: 11  
Volume: 20.0  $\mu$ L  
Dilution: 1.00  
Amount: 1.0000



Quantitation method: Custom

No peaks

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Report date: 3/22/2019 1:29:41 PM  
 Printed by: wet

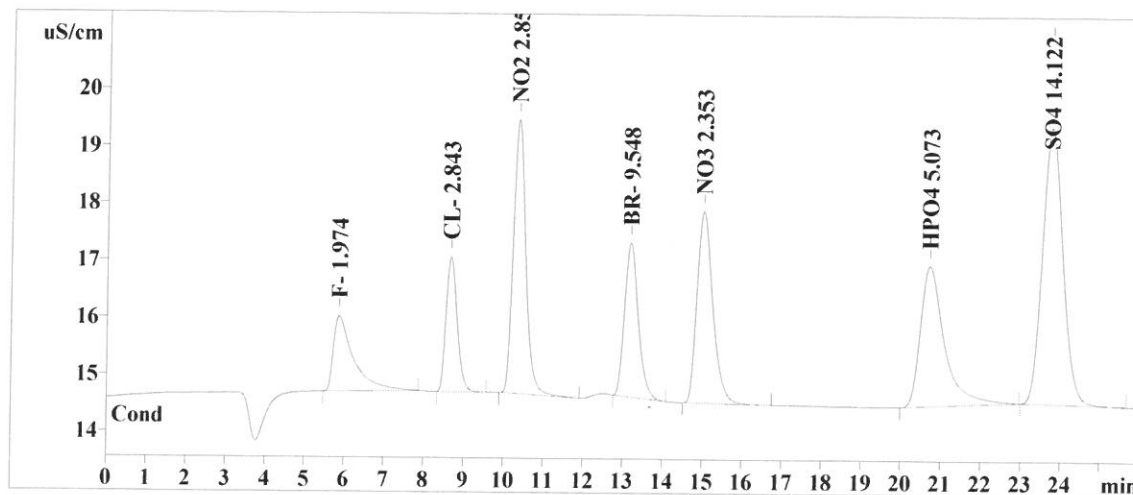
Ident: CCV  
 Analysis from: 3/22/2019 7:36:10 AM  
 File: \_2019-03-22\_

Last save: 3/22/2019 8:02:00 AM

Method: ANIONS 03-05-19.mtw  
 Run operator: wet  
 Analysis number: 66016

Last save: 3/21/2019 1:01:18 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  | 5.87             | 0.465          | 1.31            | 6.02        | 45.945            | 7.26      | 0. |
| 2  | 8.66             | 0.292          | 2.36            | 10.81       | 44.697            | 7.06      | 0. |
| 3  | 10.34            | 0.335          | 4.79            | 21.97       | 105.690           | 16.70     | 0. |
| 4  | 13.18            | 0.369          | 2.70            | 12.37       | 64.962            | 10.27     | 0. |
| 5  | 15.00            | 0.419          | 3.35            | 15.37       | 92.785            | 14.66     | 0. |
| 6  | 20.70            | 0.591          | 2.45            | 11.25       | 103.715           | 16.39     | 0. |
| 7  | 23.74            | 0.558          | 4.84            | 22.19       | 174.991           | 27.65     | 0. |
| 7  | 26.00            | 0.433          | 21.80           | 99.99       | 632.786           | 100.00    | 0. |

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Report date: 3/22/2019 1:29:49 PM  
Printed by: wet

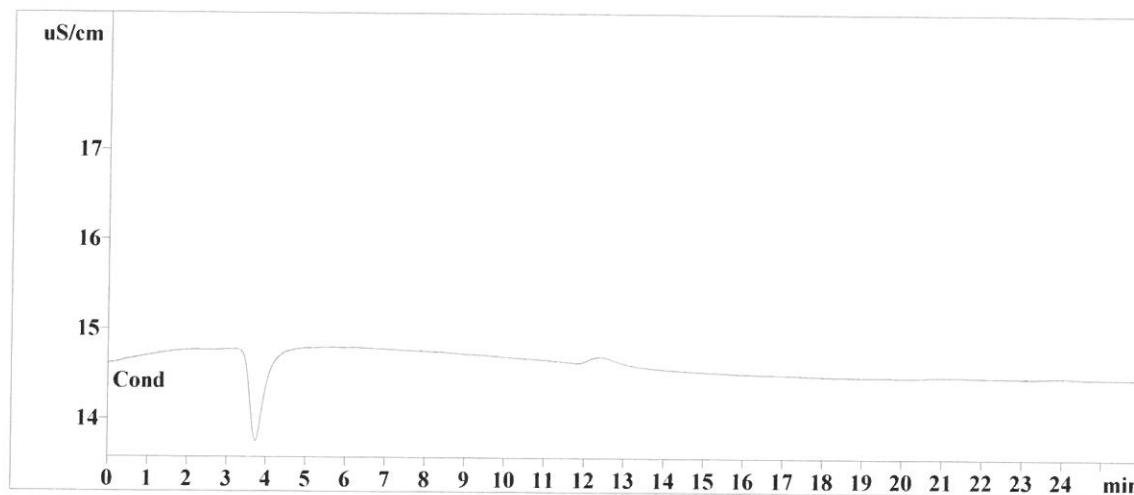
Ident: CCB  
Analysis from: 3/22/2019 8:09:33 AM  
File: \_2019-03-22\_

Last save: 3/22/2019 8:35:24 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 66017

Last save: 3/21/2019 1:01:18 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: 3/22/2019 1:29:56 PM  
Printed by: wet

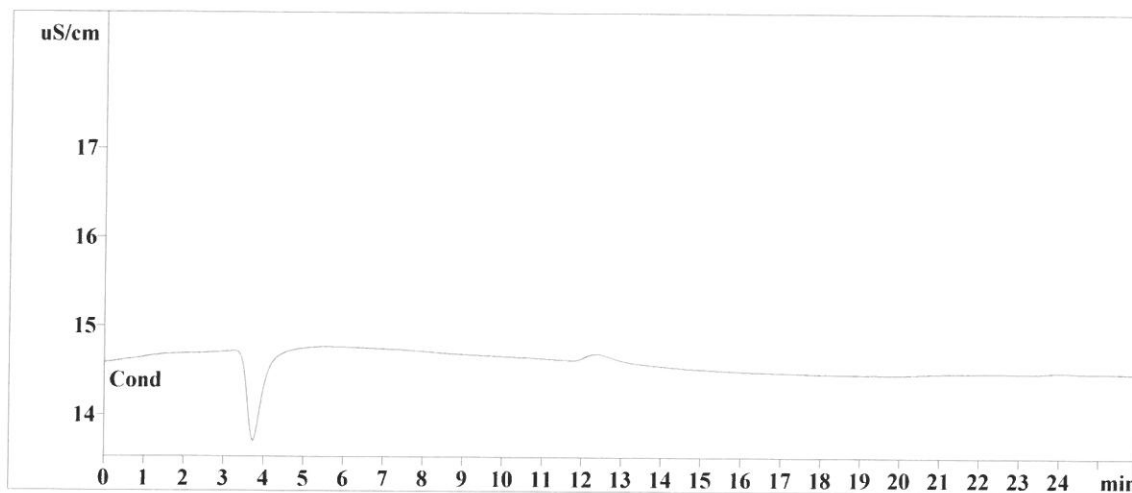
Ident: LB101555BLS  
Analysis from: 3/22/2019 8:38:28 AM  
File: \_2019-03-22\_

Last save: 3/22/2019 1:29:32 PM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 66018

Last save: 3/21/2019 1:01:18 PM

SAMPLE: 5.01g/100mL  
: 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: 3/22/2019 1:30:04 PM  
Printed by: wet

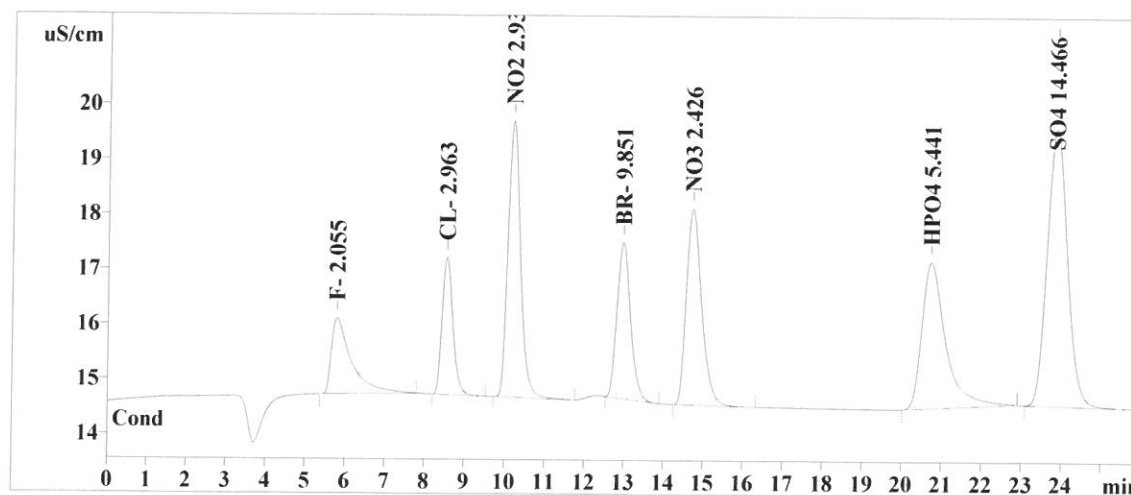
Ident: LB101555BSS  
Analysis from: 3/22/2019 9:07:24 AM  
File: \_2019-03-22\_

Last save: 3/22/2019 1:29:32 PM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 66019

Last save: 3/21/2019 1:01:18 PM

SAMPLE: 5.00g/100mL  
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             | 0.462          | 1.38            | 5.99        | 47.939            | 7.30      | 0. |
| 2  | 8.54             | 0.288          | 2.49            | 10.82       | 46.628            | 7.10      | 0. |
| 3  | 10.19            | 0.330          | 5.02            | 21.82       | 109.085           | 16.61     | 0. |
| 4  | 12.96            | 0.363          | 2.84            | 12.35       | 67.111            | 10.22     | 0. |
| 5  | 14.71            | 0.407          | 3.57            | 15.53       | 95.770            | 14.58     | 0. |
| 6  | 20.72            | 0.583          | 2.66            | 11.56       | 110.703           | 16.86     | 0. |
| 7  | 23.84            | 0.549          | 5.04            | 21.92       | 179.425           | 27.32     | 0. |
| 7  | 26.00            | 0.426          | 22.99           | 99.99       | 656.661           | 100.00    | 0. |

This report has been created by IC Net  
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Report date: 3/22/2019 1:31:50 PM  
Printed by: wet

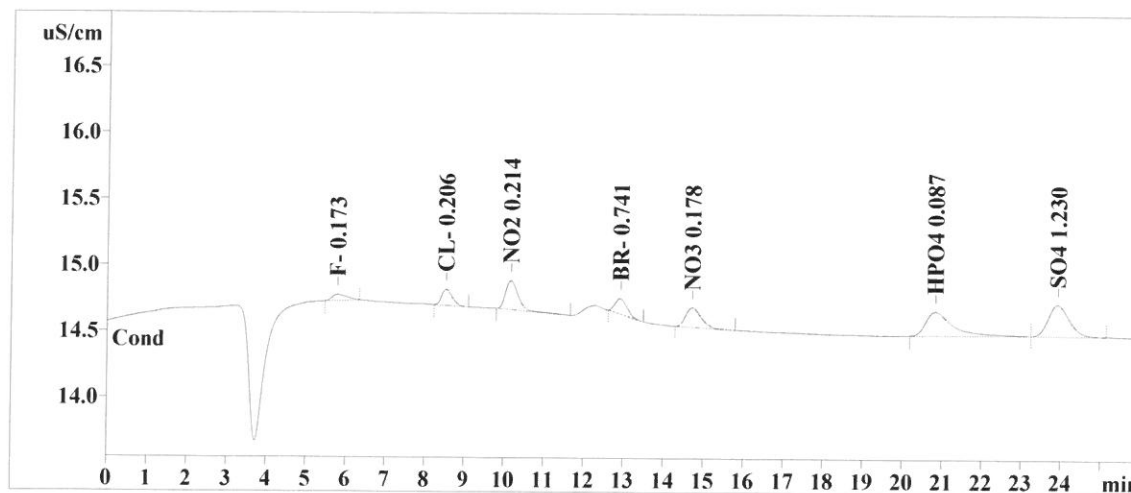
Ident: K1560-03  
Analysis from: 3/22/2019 10:58:26 AM  
File: \_2019-03-22\_

Last save: 3/22/2019 11:24:16 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 66022

Last save: 3/21/2019 1:01:18 PM

SAMPLE: 5.00g/100mL  
: 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  | 5.79             | 0.418          | 0.05            | 4.30        | 1.178             | 3.59      | 0. |
| 2  | 8.53             | 0.290          | 0.12            | 11.24       | 2.281             | 6.96      | 0. |
| 3  | 10.16            | 0.330          | 0.22            | 20.18       | 4.921             | 15.01     | 0. |
| 4  | 12.92            | 0.336          | 0.12            | 10.90       | 2.502             | 7.63      | 0. |
| 5  | 14.71            | 0.423          | 0.15            | 13.81       | 4.106             | 12.52     | 0. |
| 6  | 20.82            | 0.653          | 0.18            | 16.92       | 9.000             | 27.45     | 0. |
| 7  | 23.91            | 0.568          | 0.24            | 22.07       | 8.800             | 26.84     | 0. |
| 7  | 26.00            | 0.431          | 1.07            | 99.42       | 32.788            | 100.00    | 0. |

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Report date: 3/22/2019 1:32:00 PM  
Printed by: wet

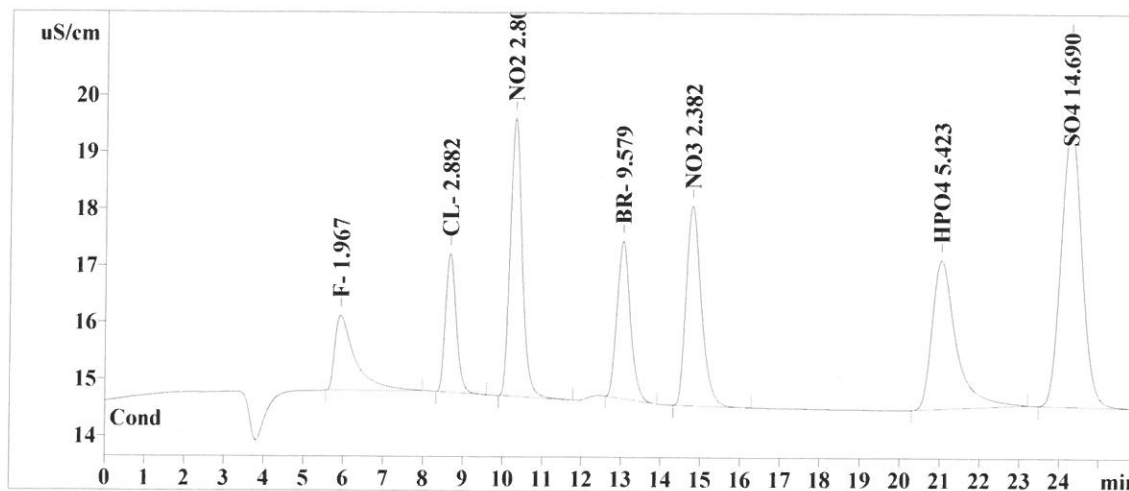
Ident: CCV  
Analysis from: 3/22/2019 11:27:22 AM  
File: \_2019-03-22\_

Last save: 3/22/2019 11:57:08 AM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 66023

Last save: 3/21/2019 1:01:18 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  | 5.92             | 0.458          | 1.32            | 5.87        | 45.756            | 7.07      | 0. |
| 2  | 8.66             | 0.284          | 2.44            | 10.85       | 45.315            | 7.01      | 0. |
| 3  | 10.29            | 0.323          | 4.89            | 21.77       | 103.914           | 16.07     | 0. |
| 4  | 13.03            | 0.363          | 2.77            | 12.32       | 65.180            | 10.08     | 0. |
| 5  | 14.78            | 0.406          | 3.52            | 15.65       | 93.984            | 14.53     | 0. |
| 6  | 21.02            | 0.591          | 2.62            | 11.65       | 110.369           | 17.06     | 0. |
| 7  | 24.26            | 0.576          | 4.92            | 21.88       | 182.310           | 28.19     | 0. |
| 7  | 26.00            | 0.429          | 22.46           | 99.99       | 646.827           | 100.00    | 0. |

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Report date: 3/22/2019 1:32:16 PM  
Printed by: wet

Ident: CCB  
Analysis from: 3/22/2019 11:56:17 AM  
File: \_2019-03-22\_

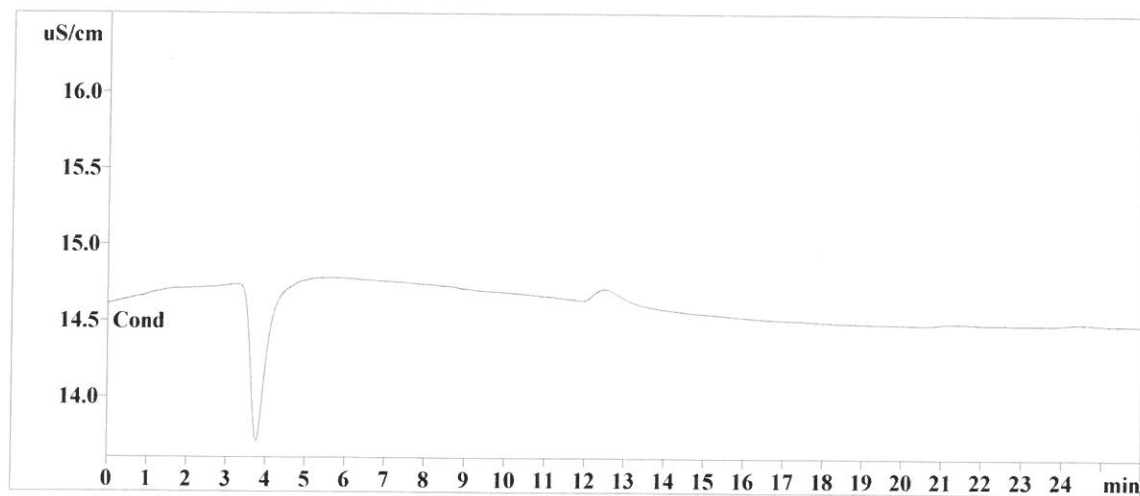
Last save: 3/22/2019 1:32:16 PM

Method: ANIONS 03-05-19.mtw  
Run operator: wet  
Analysis number: 66024

Last save: 3/21/2019 1:01:18 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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