

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\  
 Data File : VF060894.D  
 Acq On : 3 Dec 2018 16:30  
 Operator : VA/AP  
 Sample : J5764-23  
 Misc : 6.64g/5mL/MSVOA-F/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 JC-02-113018-B

Manual Integrations  
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Quant Time: Dec 04 03:54:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 4.88  | 168  | 188341   | 50.00  | ug/l    | -0.02    |
| 34) 1,4-Difluorobenzene     | 5.61  | 114  | 330321   | 50.00  | ug/l    | -0.02    |
| 63) Chlorobenzene-d5        | 9.80  | 117  | 292679   | 50.00  | ug/l    | -0.01    |
| 72) 1,4-Dichlorobenzene-d4  | 12.57 | 152  | 141044   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 4.87  | 65   | 112444   | 50.68  | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.36% |          |
| 35) Dibromofluoromethane    | 4.13  | 113  | 119431   | 45.58  | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 91.16%  |          |
| 50) Toluene-d8              | 7.58  | 98   | 291505   | 37.76  | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 75.52%  |          |
| 62) 4-Bromofluorobenzene    | 11.42 | 95   | 138199   | 39.39  | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 78.78%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 20) Methylene Chloride      | 2.27  | 84   | 16041m   | 10.687 | ug/l    | Qvalue   |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

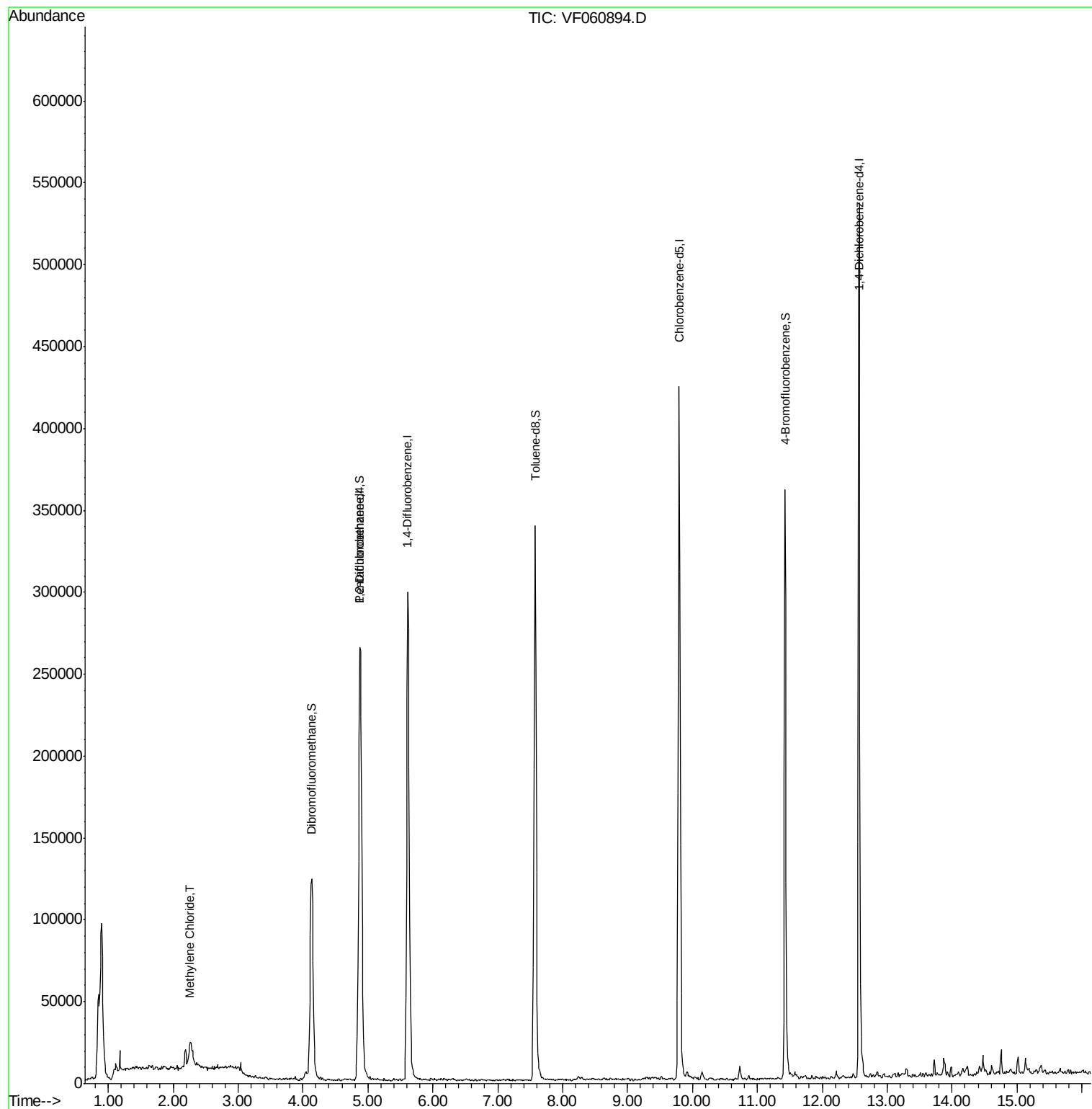
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF120318\  
Data File : VF060894.D  
Acq On : 3 Dec 2018 16:30  
Operator : VA/AP  
Sample : J5764-23  
Misc : 6.64g/5mL/MSVOA-F/SOIL  
ALS Vial : 9 Sample Multiplier: 1

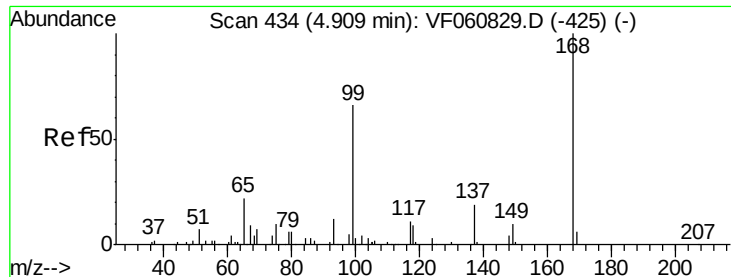
Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-113018-B

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Quant Time: Dec 04 03:54:04 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.02 min

Lab File: VF060894.D

Acq: 3 Dec 2018 16:30

Instrument :

MSVOA\_F

ClientSampleId :

JC-02-113018-B

Tot Ion:168 Resp: 188341

Ion Ratio Lower Upper

168 100

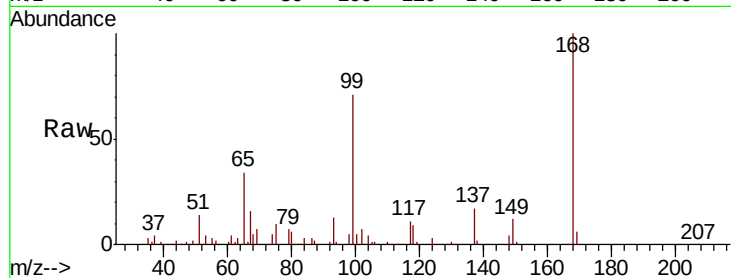
99 70.5 52.6 79.0

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

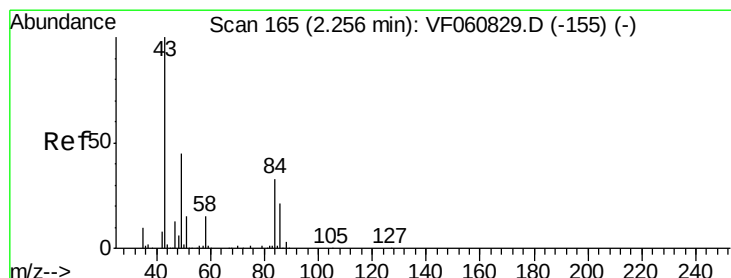
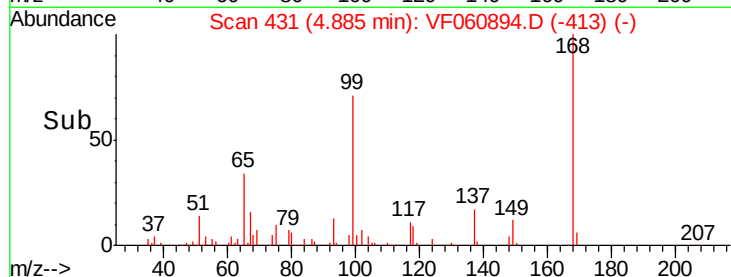
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 10.687 ug/l m

RT: 2.27 min Scan# 166

Delta R.T. 0.01 min

Lab File: VF060894.D

Acq: 3 Dec 2018 16:30

Tgt Ion: 84 Resp: 16041

Ion Ratio Lower Upper

84 100

49 145.1 111.3 166.9

51 47.3 38.0 57.0

86 64.1 49.8 74.8

Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

8000

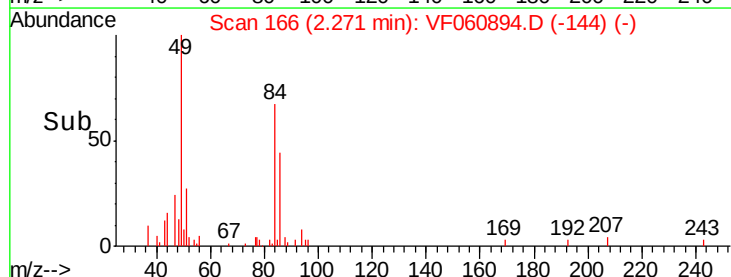
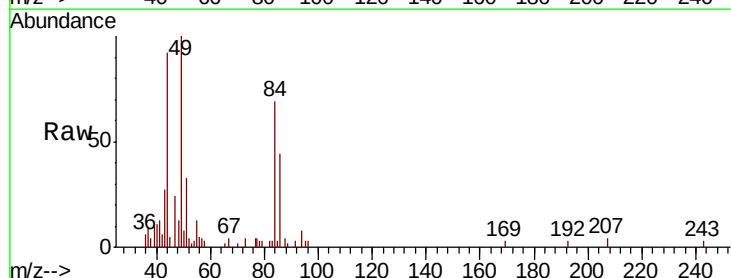
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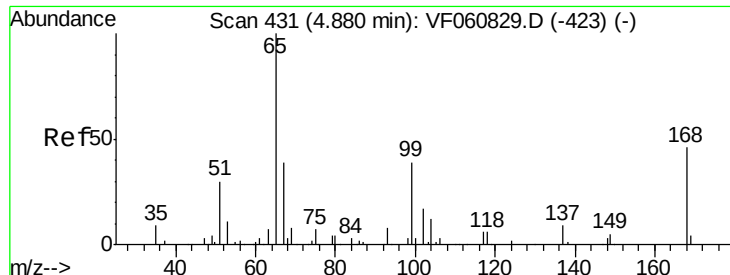
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Time-->





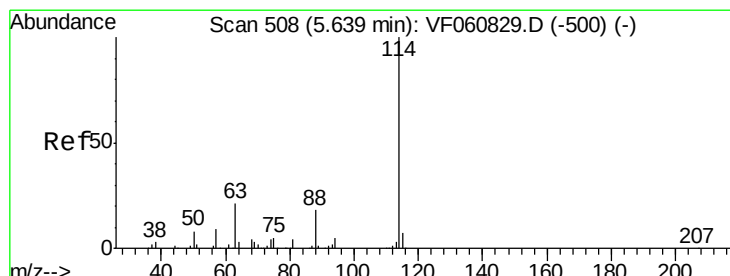
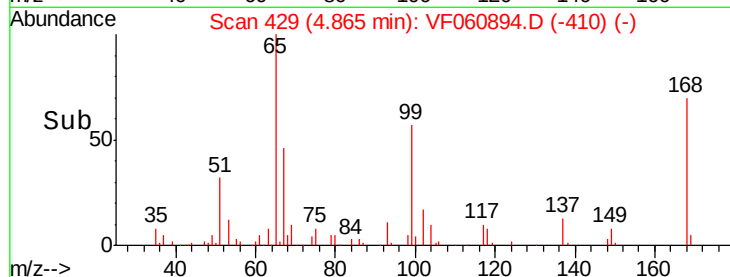
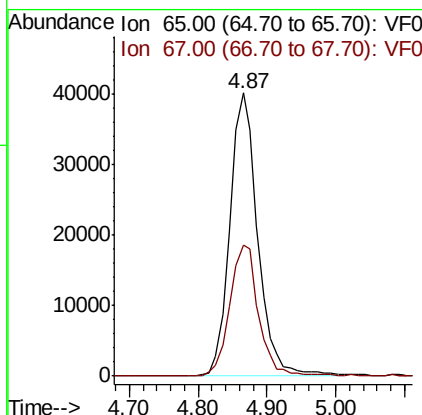
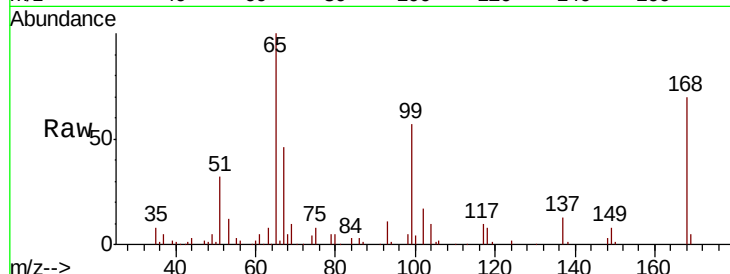
#33  
 1,2-Dichloroethane-d4  
 Concen: 50.680 ug/l  
 RT: 4.87 min Scan# 429  
 Delta R.T. -0.01 min  
 Lab File: VF060894.D  
 Acq: 3 Dec 2018 16:30

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 JC-02-113018-B

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 112444 |       |       |
| 67      | 46.4  | 0.0    | 96.4  |       |

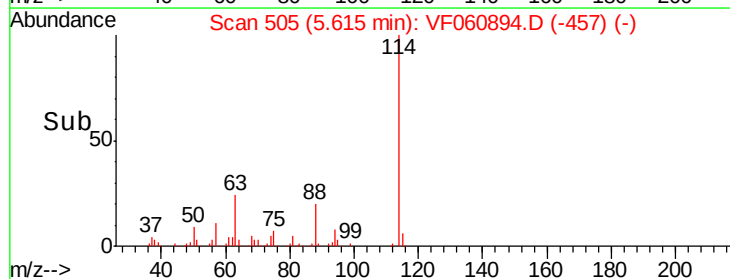
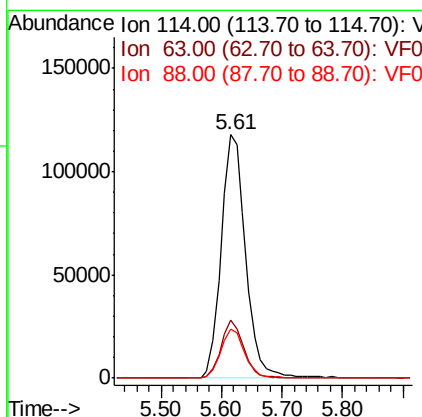
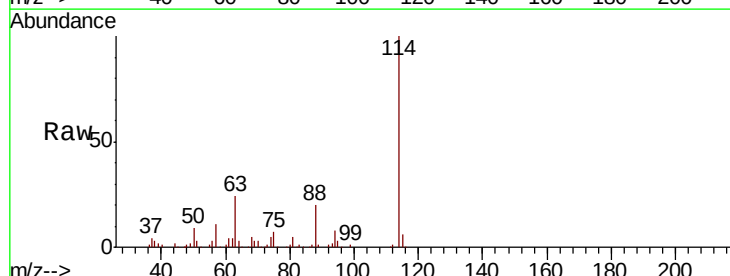
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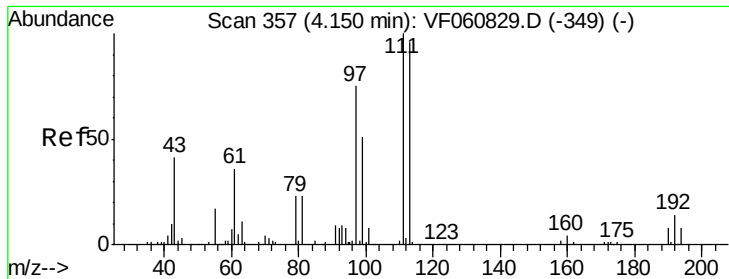
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.61 min Scan# 505  
 Delta R.T. -0.02 min  
 Lab File: VF060894.D  
 Acq: 3 Dec 2018 16:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 330321 |       |       |
| 63      | 23.9  | 0.0    | 41.6  |       |
| 88      | 20.0  | 0.0    | 36.6  |       |





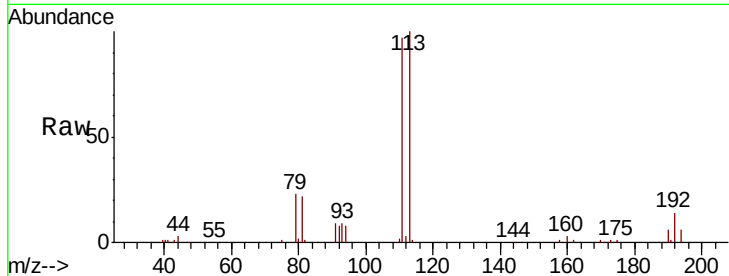
#35  
 Dibromofluoromethane  
 Concen: 45.575 ug/l  
 RT: 4.13 min Scan# 354  
 Delta R.T. -0.02 min  
 Lab File: VF060894.D  
 Acq: 3 Dec 2018 16:30

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 JC-02-113018-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 97.3  | 83.0  | 124.6 |
| 192     | 13.6  | 12.3  | 18.5  |

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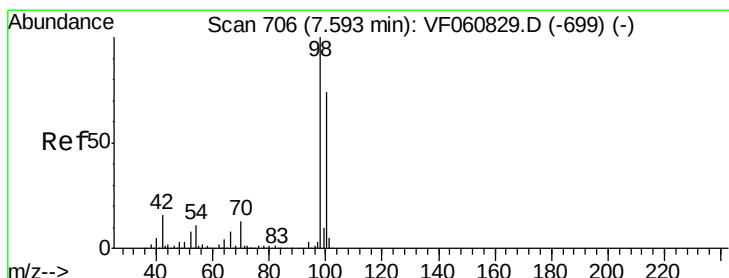
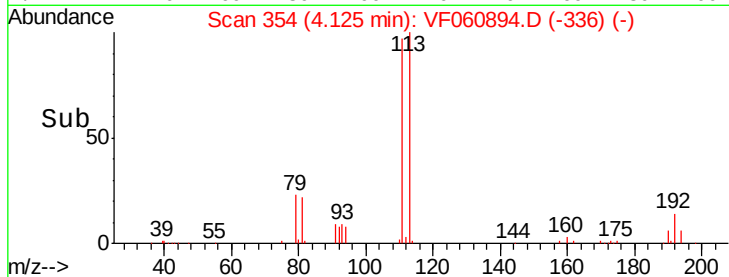
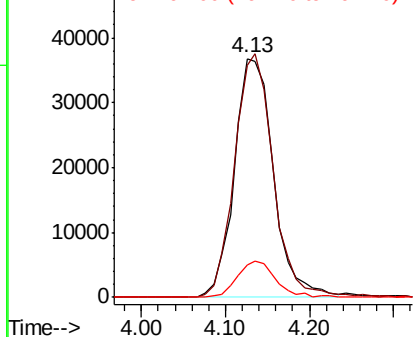


Abundance

Ion 113.00 (112.70 to 113.70): V

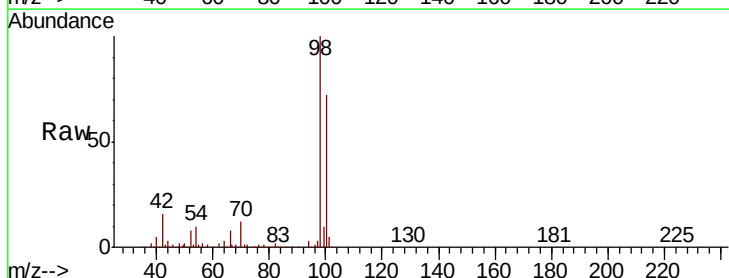
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#50  
 Toluene-d8  
 Concen: 37.763 ug/l  
 RT: 7.58 min Scan# 704  
 Delta R.T. -0.01 min  
 Lab File: VF060894.D  
 Acq: 3 Dec 2018 16:30

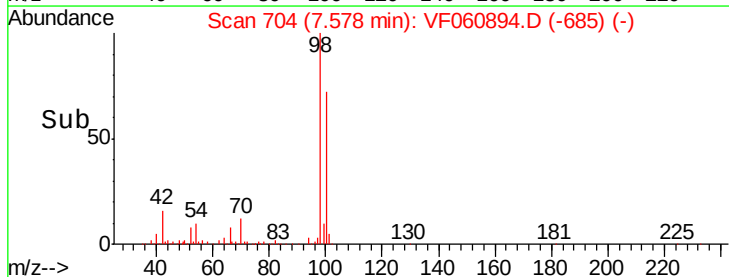
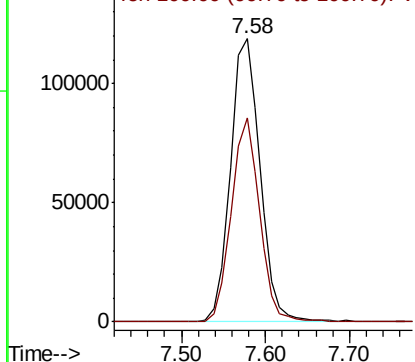
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 72.1  | 59.3  | 88.9  |

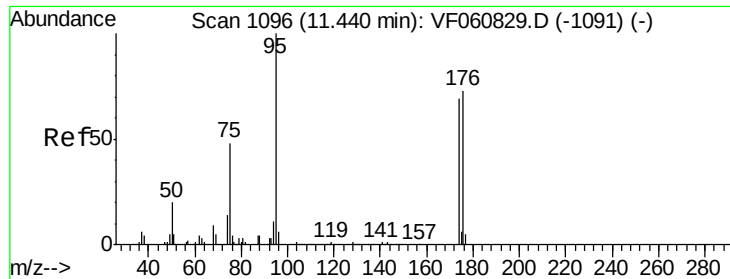


Abundance

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF





#62

4-Bromofluorobenzene

Concen: 39.392 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.01 min

Lab File: VF060894.D

Acq: 3 Dec 2018 16:30

Instrument :

MSVOA\_F

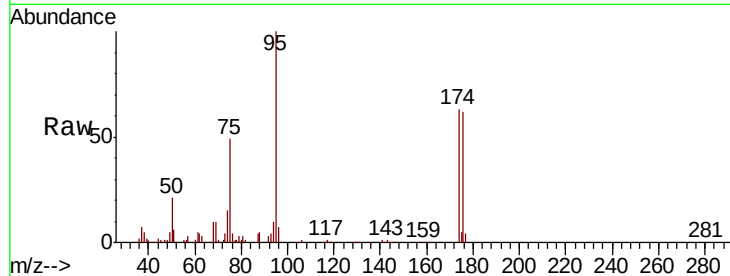
ClientSampleId :

JC-02-113018-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 138199 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 62.8  | 0.0   | 138.2  |
| 176       | 62.3  | 0.0   | 146.2  |

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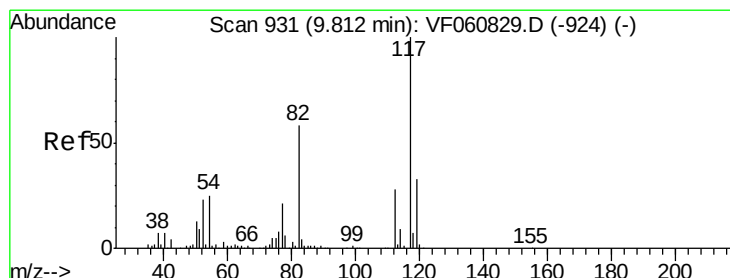
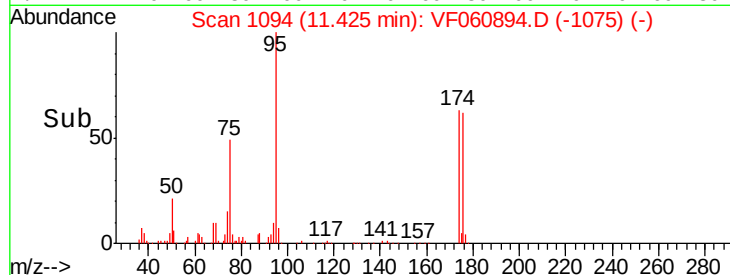
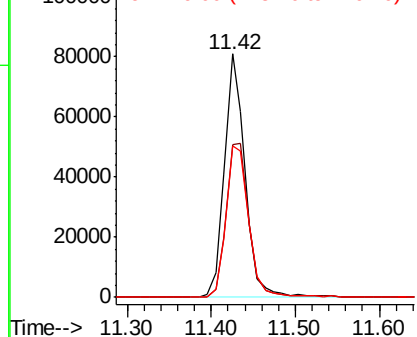


Abundance

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 929

Delta R.T. -0.01 min

Lab File: VF060894.D

Acq: 3 Dec 2018 16:30

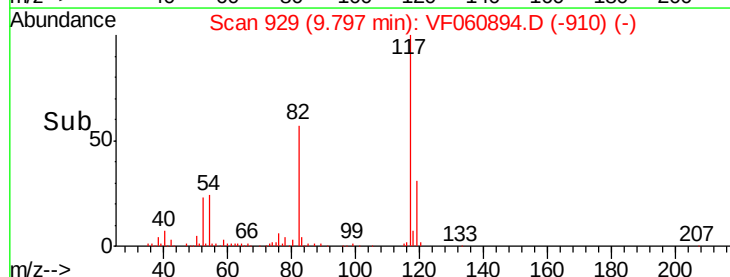
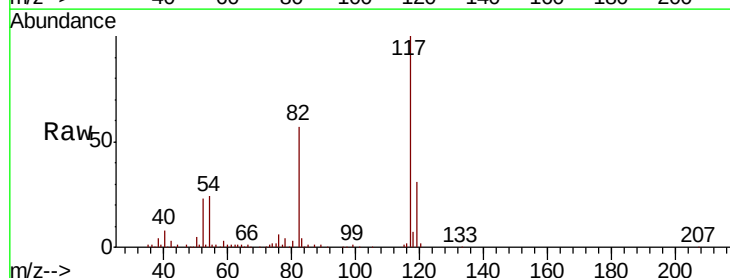
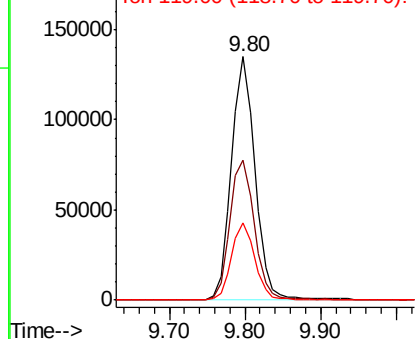
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 292679 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 57.5  | 46.6  | 69.8   |
| 119       | 31.5  | 26.4  | 39.6   |

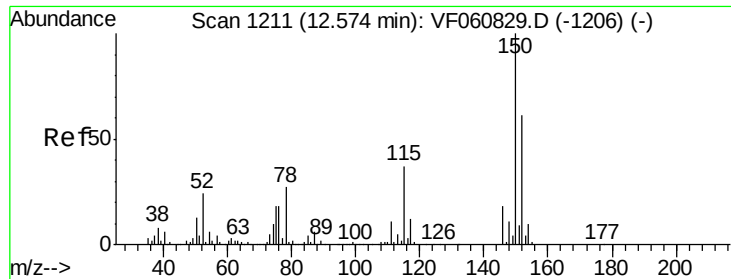
Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VF060894.D

Acq: 3 Dec 2018 16:30

Instrument :

MSVOA\_F

ClientSampleId :

JC-02-113018-B

Tot Ion:152 Resp: 141044

Ion Ratio Lower Upper

152 100

115 58.6 30.1 90.5

150 160.7 0.0 327.6

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