

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082718\  
 Data File : VF060129.D  
 Acq On : 27 Aug 2018 17:10  
 Operator : VA/AP  
 Sample : J4646-11  
 Misc : 5.49g/5mL/MSVOA F/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Aug 27 18:20:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F082118S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 04:43:43 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 124038   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 181101   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 206505   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 127230   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.01  | 65   | 75518    | 44.48  | ug/l    | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 88.96%  |          |
| 35) Dibromofluoromethane    | 4.28  | 113  | 77759    | 54.68  | ug/l    | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.36% |          |
| 50) Toluene-d8              | 7.70  | 98   | 195599   | 48.43  | ug/l    | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.86%  |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 104251   | 48.79  | ug/l    | -0.01    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.58%  |          |

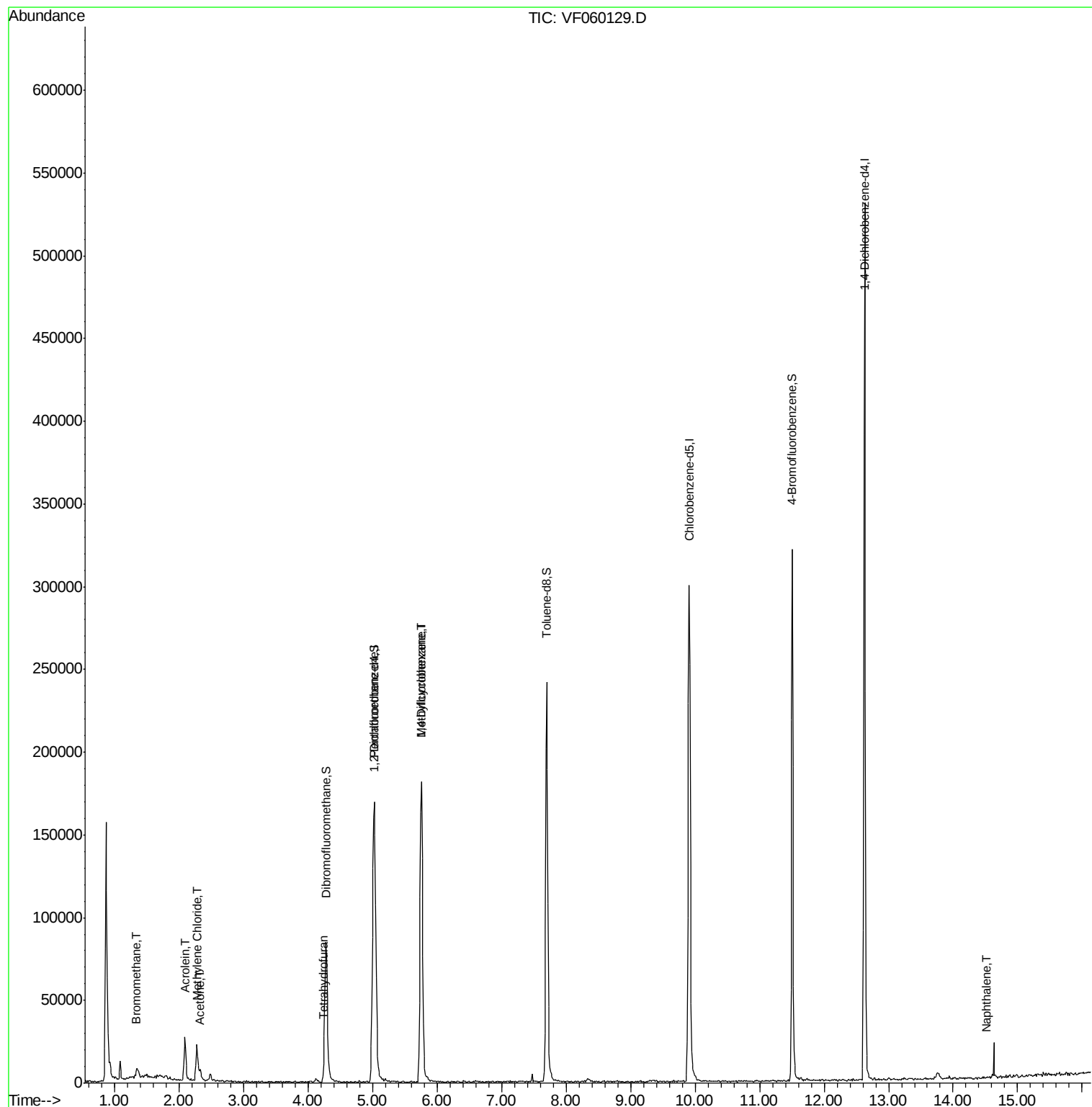
| Target Compounds       | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane       | 1.09  | 50   | 890      | Below Cal | #      | 80     |
| 5) Bromomethane        | 1.35  | 94   | 1068     | 1.386     | ug/l # | 1      |
| 13) Acrolein           | 2.09  | 56   | 354      | 32.064    | ug/l # | 1      |
| 16) Acetone            | 2.33  | 43   | 6546     | 14.672    | ug/l   | 98     |
| 18) Methyl Acetate     | 2.43  | 43   | 569      | Below Cal | #      | 60     |
| 20) Methylene Chloride | 2.28  | 84   | 11800    | 9.252     | ug/l # | 77     |
| 29) Tetrahydrofuran    | 4.23  | 42   | 296      | 1.353     | ug/l # | 54     |
| 39) Methylcyclohexane  | 5.75  | 83   | 3428     | 2.148     | ug/l # | 47     |
| 52) Toluene            | 7.77  | 92   | 387      | Below Cal | #      | 67     |
| 95) Naphthalene        | 14.51 | 128  | 420      | 2.371     | ug/l # | 69     |

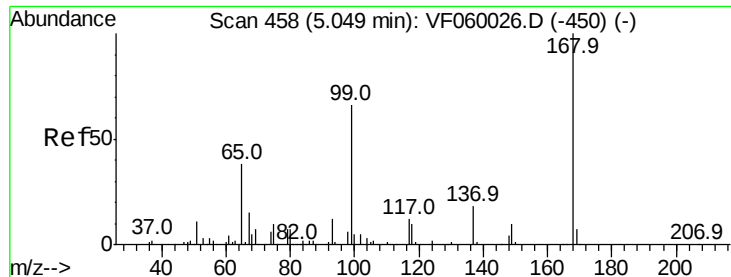
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J4646-11  
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: Aug 27 18:20:12 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F082118S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 22 04:43:43 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.02 min

Lab File: VF060129.D

Acq: 27 Aug 2018 17:10

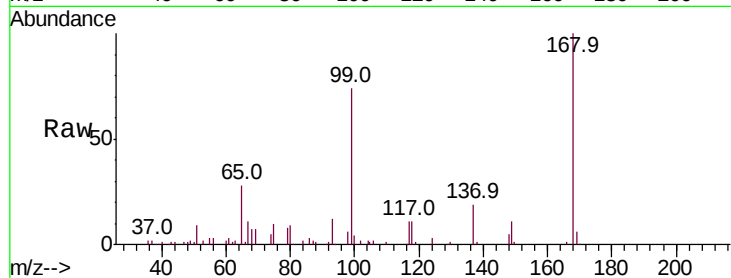
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:168 Resp: 124038

Ion Ratio Lower Upper

168 100

99 73.7 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

40000

30000

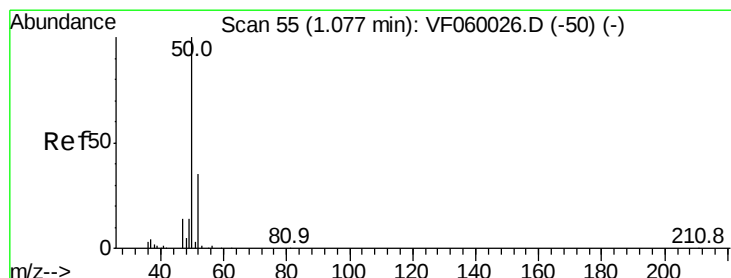
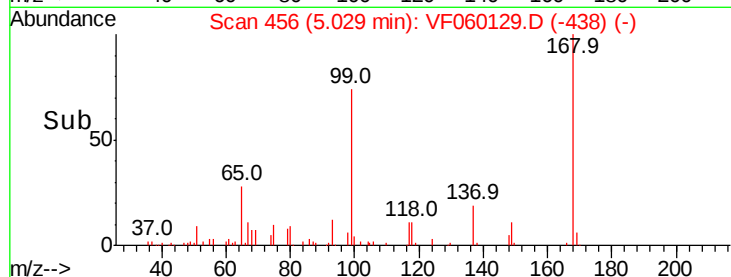
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: Below Cal

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060129.D

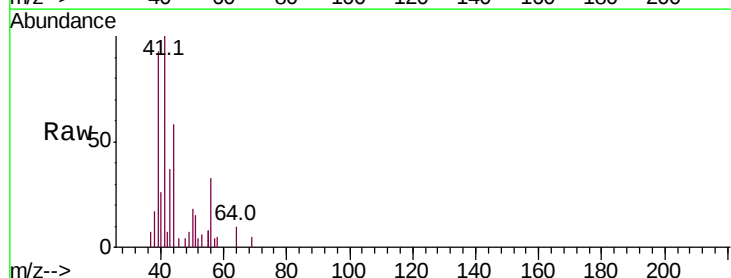
Acq: 27 Aug 2018 17:10

Tgt Ion: 50 Resp: 890

Ion Ratio Lower Upper

50 100

52 22.9 27.6 41.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

600

500

400

300

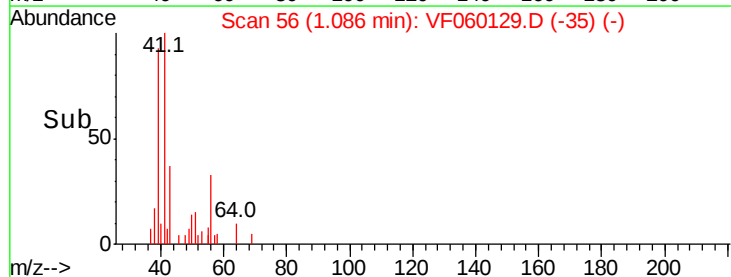
200

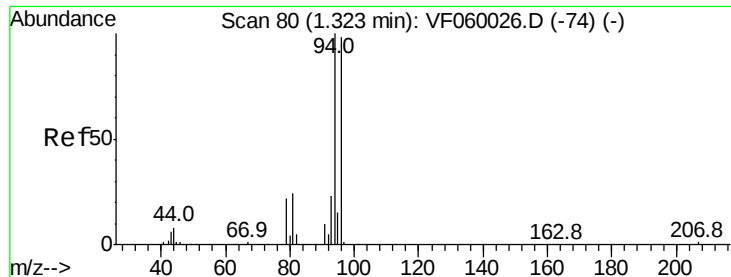
100

0

Time-->

1.05 1.10 1.15





#5

Bromomethane

Concen: 1.386 ug/l

RT: 1.35 min Scan# 83

Delta R.T. 0.03 min

Lab File: VF060129.D

Acq: 27 Aug 2018 17:10

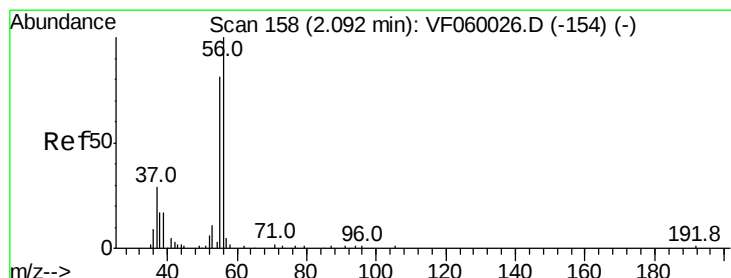
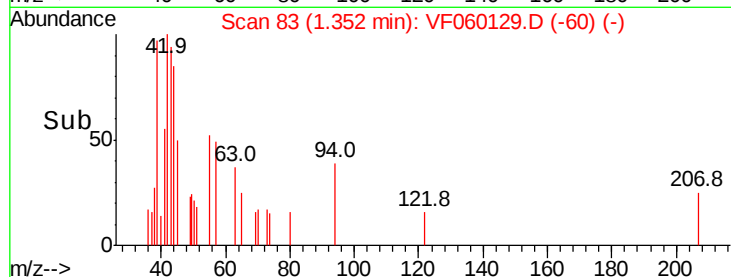
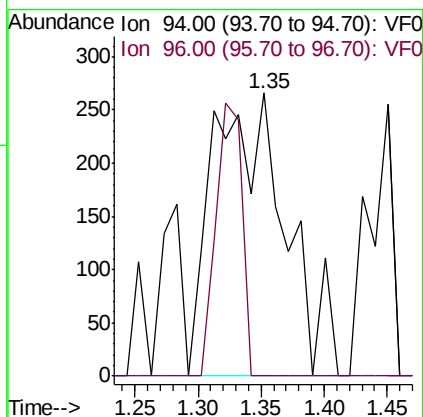
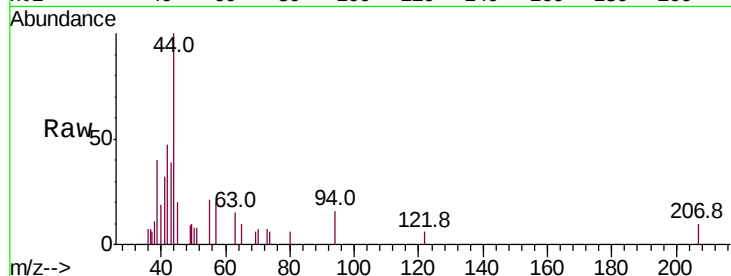
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 94 Resp: 1068

Ion Ratio Lower Upper

94 100

96 0.0 78.6 118.0#



#13

Acrolein

Concen: 32.064 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF060129.D

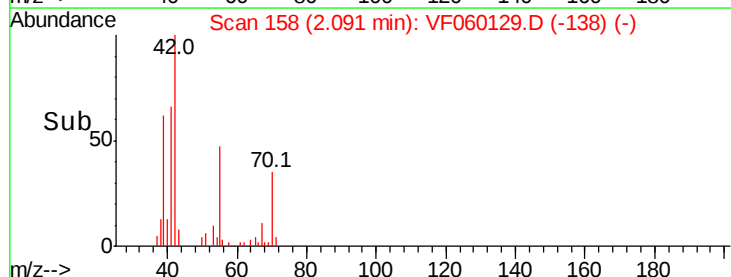
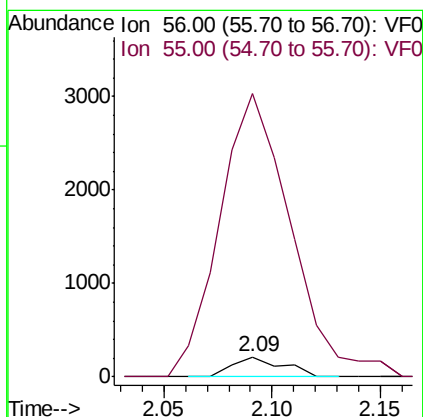
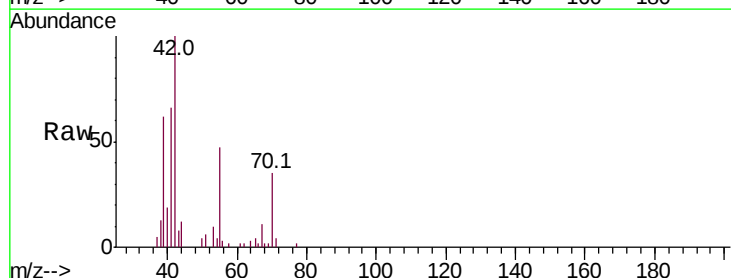
Acq: 27 Aug 2018 17:10

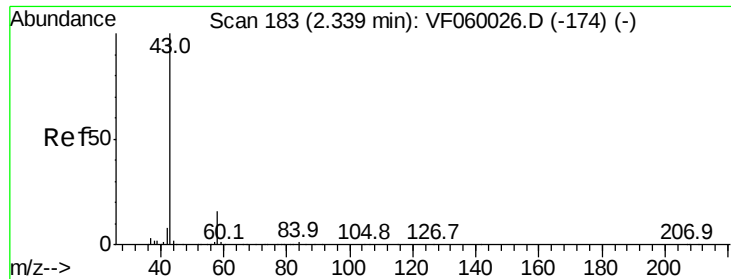
Tgt Ion: 56 Resp: 354

Ion Ratio Lower Upper

56 100

55 1415.4 65.6 98.4#

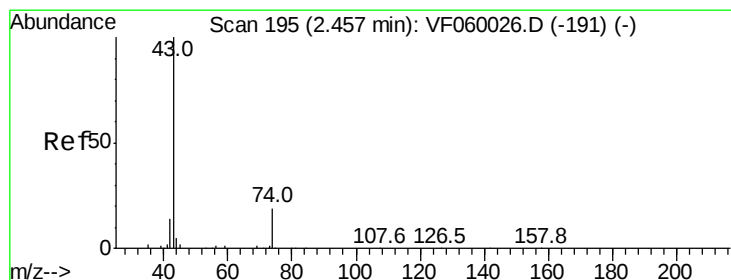
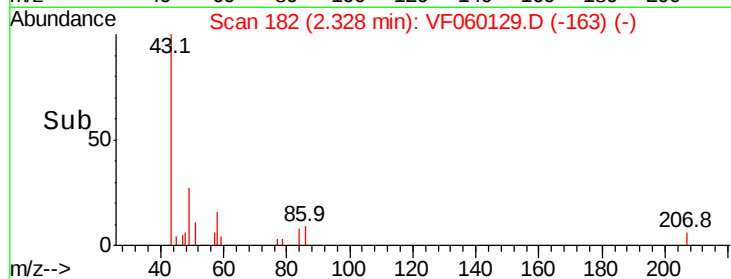
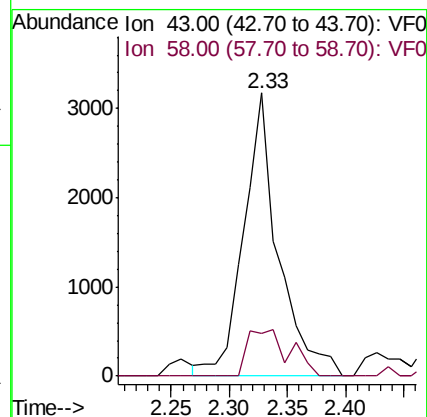
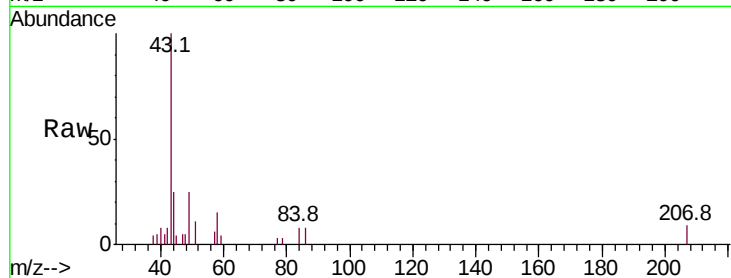




#16  
Acetone  
Concen: 14.672 ug/l  
RT: 2.33 min Scan# 182  
Delta R.T. -0.01 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

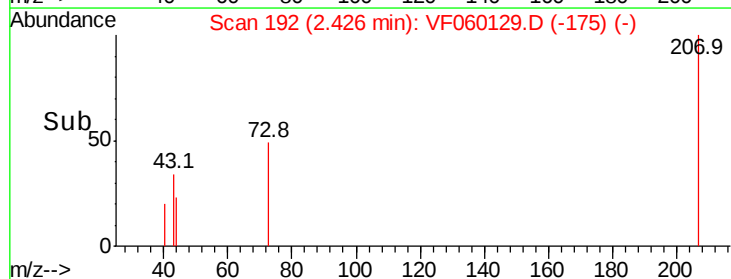
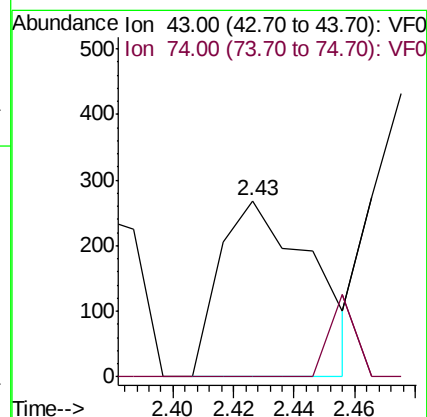
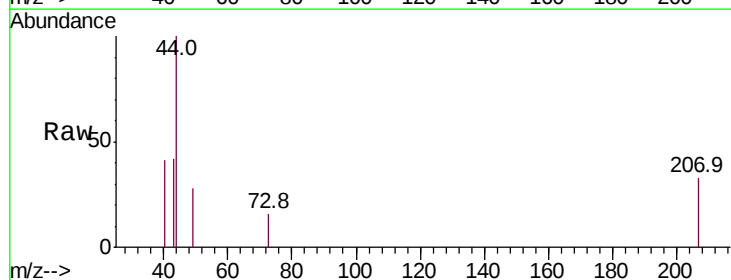
Instrument :  
MSVOA\_F  
ClientSampleId :

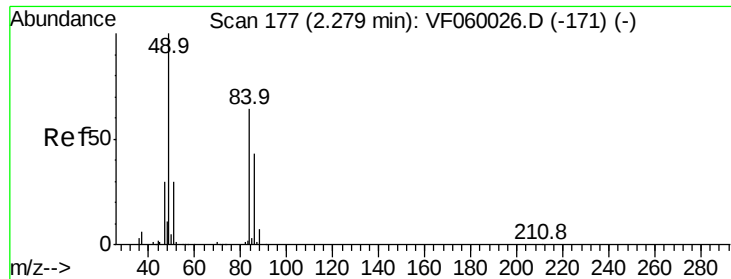
Tot Ion: 43 Resp: 6546  
Ion Ratio Lower Upper  
43 100  
58 15.1 12.6 19.0



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 2.43 min Scan# 192  
Delta R.T. -0.03 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

Tgt Ion: 43 Resp: 569  
Ion Ratio Lower Upper  
43 100  
74 0.0 13.8 20.6#

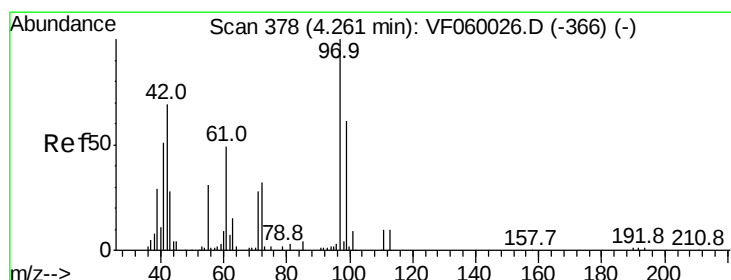
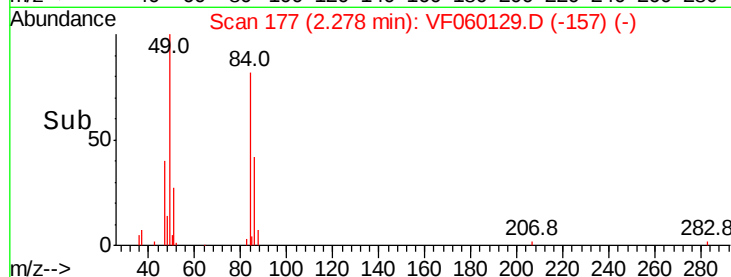
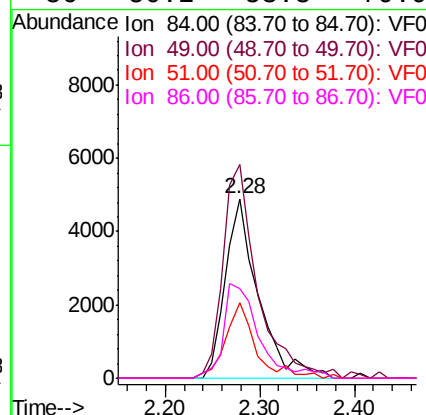
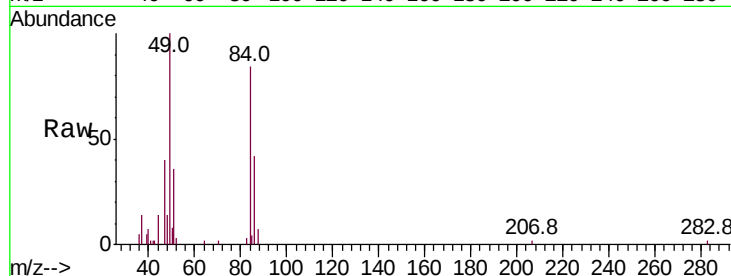




#20  
Methvlene Chloride  
Concen: 9.252 ug/l  
RT: 2.28 min Scan# 177  
Delta R.T. -0.00 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

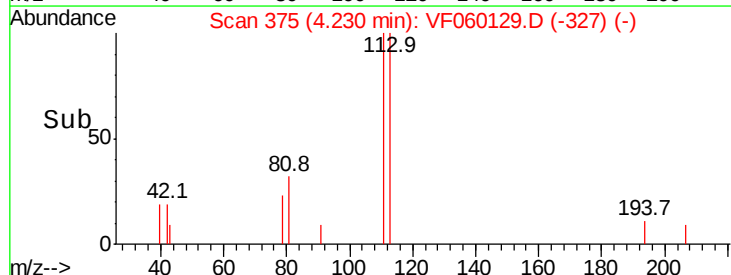
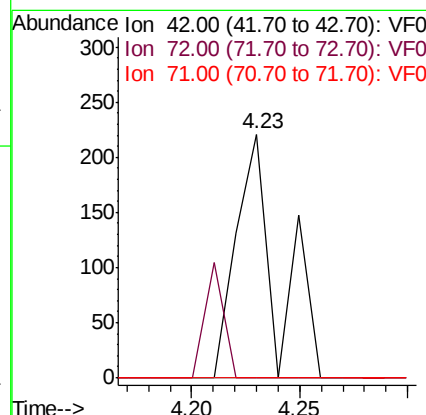
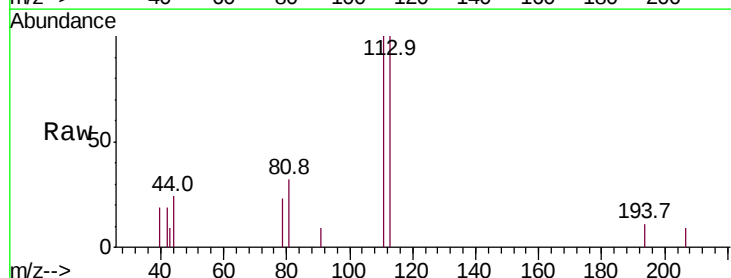
Instrument :  
MSVOA\_F  
ClientSampleId :

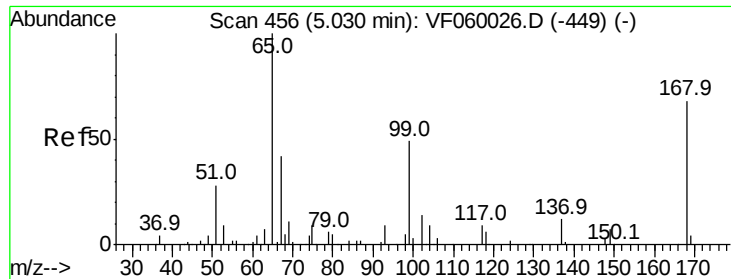
Tot Ion: 84 Resp: 11800  
Ion Ratio Lower Upper  
84 100  
49 119.1 125.4 188.0#  
51 42.5 38.3 57.5  
86 50.2 53.3 79.9#



#29  
Tetrahydrofuran  
Concen: 1.353 ug/l  
RT: 4.23 min Scan# 375  
Delta R.T. -0.03 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

Tgt Ion: 42 Resp: 296  
Ion Ratio Lower Upper  
42 100  
72 20.9 31.4 47.2#  
71 0.0 29.7 44.5#

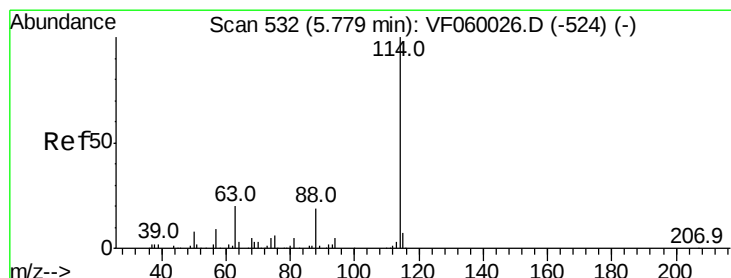
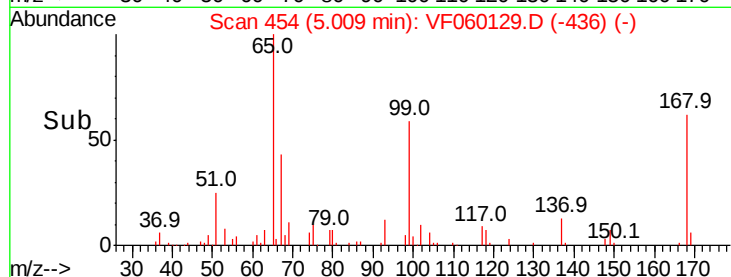
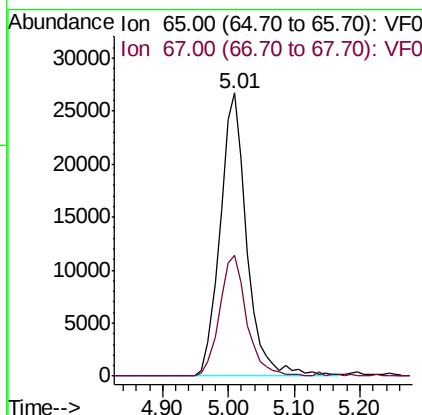
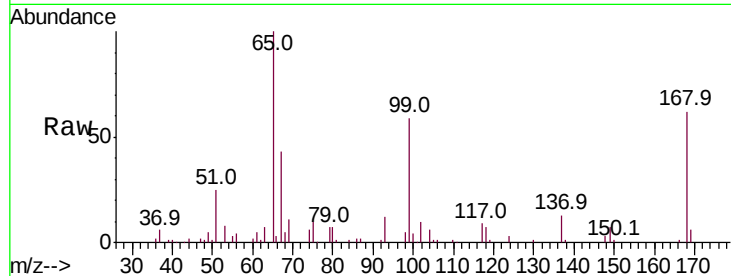




#33  
 1,2-Dichloroethane-d4  
 Concen: 44.485 ug/l  
 RT: 5.01 min Scan# 454  
 Delta R.T. -0.02 min  
 Lab File: VF060129.D  
 Acq: 27 Aug 2018 17:10

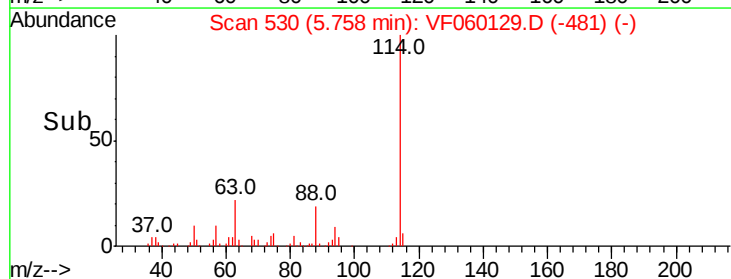
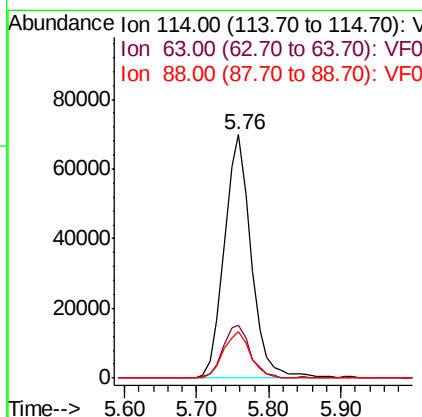
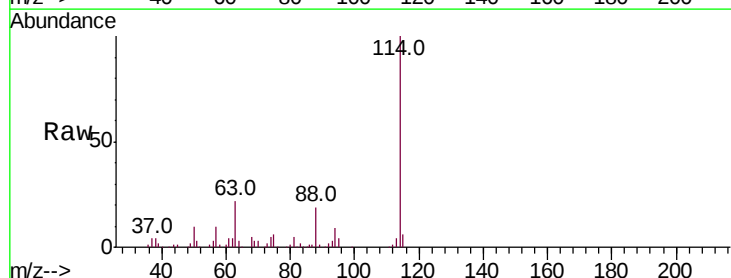
Instrument :  
 MSVOA\_F  
 ClientSampleId :

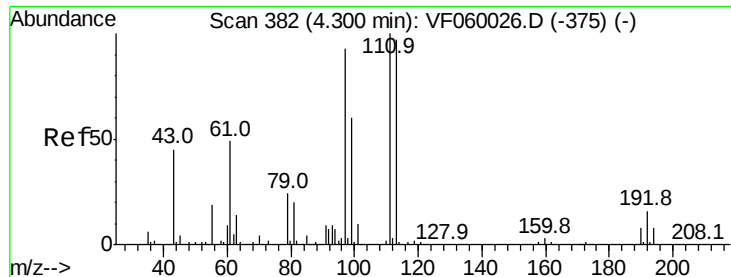
Tot Ion: 65 Resp: 75518  
 Ion Ratio Lower Upper  
 65 100  
 67 42.7 0.0 92.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.76 min Scan# 530  
 Delta R.T. -0.02 min  
 Lab File: VF060129.D  
 Acq: 27 Aug 2018 17:10

Tgt Ion:114 Resp: 181101  
 Ion Ratio Lower Upper  
 114 100  
 63 21.6 0.0 40.4  
 88 19.2 0.0 38.6





#35

Dibromofluoromethane

Concen: 54.679 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.02 min

Lab File: VF060129.D

Acq: 27 Aug 2018 17:10

Instrument :

MSVOA\_F

ClientSampleId :

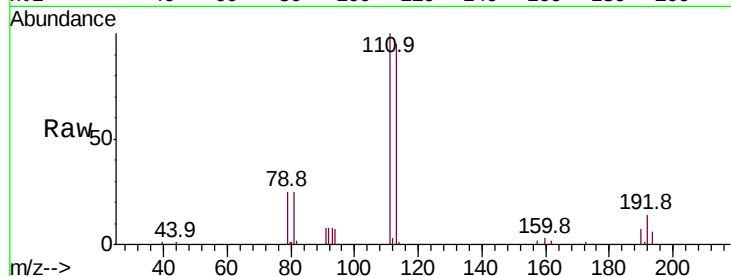
Tot Ion:113 Resp: 77759

Ion Ratio Lower Upper

113 100

111 105.5 82.7 124.1

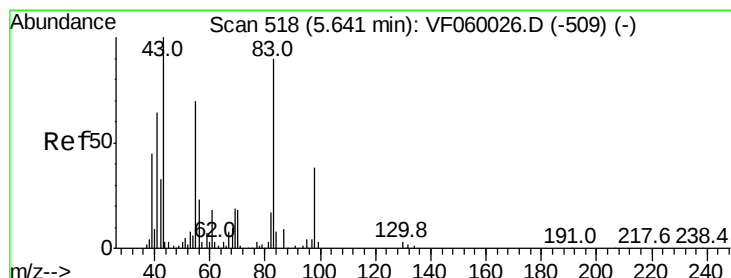
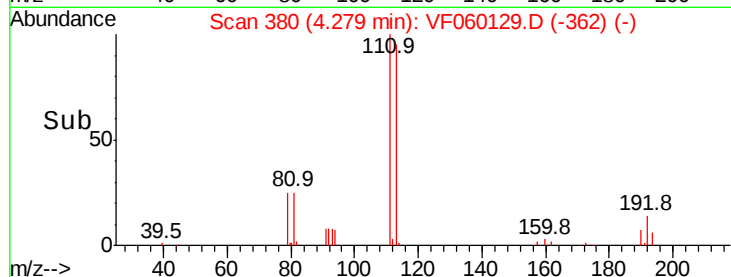
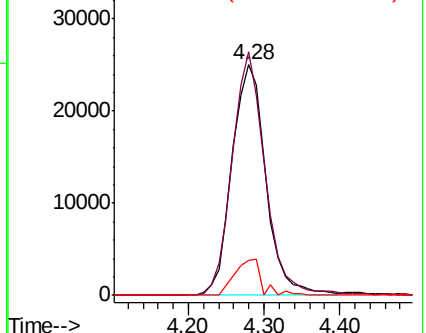
192 15.0 13.0 19.4



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



#39

Methylcyclohexane

Concen: 2.148 ug/l

RT: 5.75 min Scan# 529

Delta R.T. 0.11 min

Lab File: VF060129.D

Acq: 27 Aug 2018 17:10

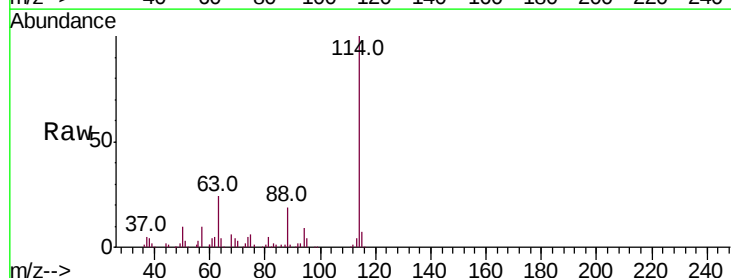
Tgt Ion: 83 Resp: 3428

Ion Ratio Lower Upper

83 100

55 31.9 62.7 94.1#

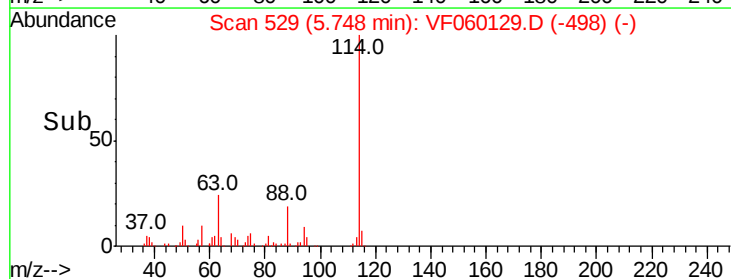
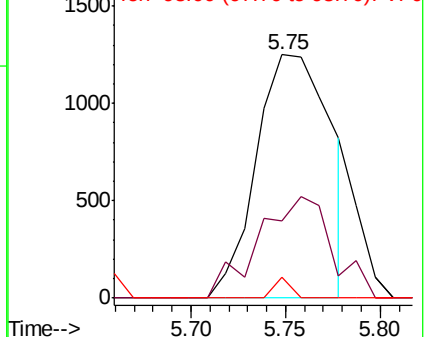
98 8.8 33.8 50.8#

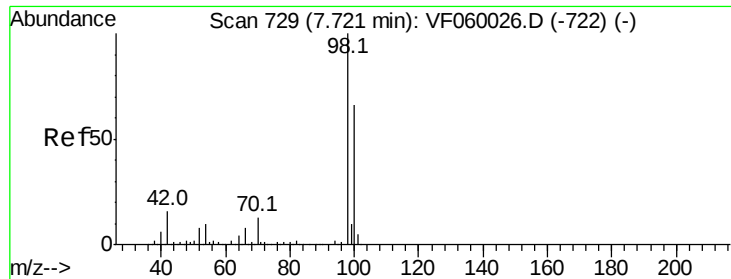


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

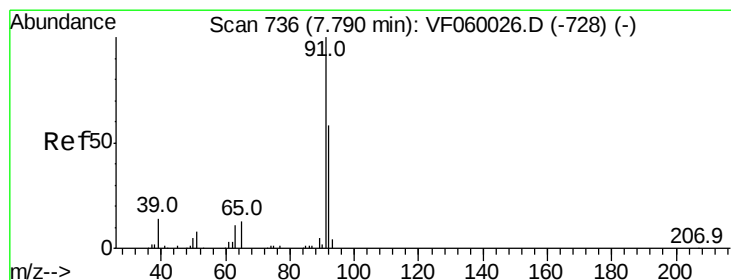
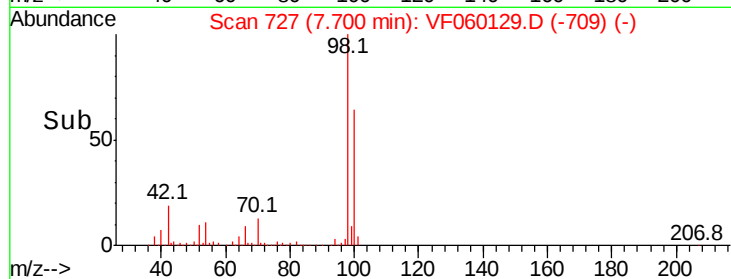
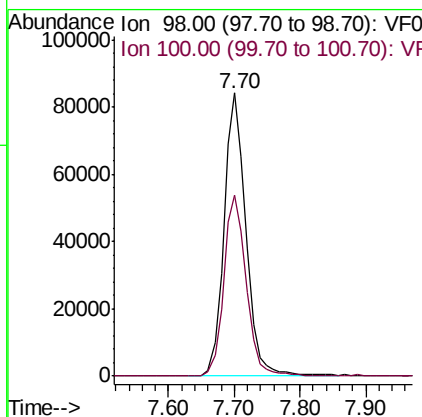
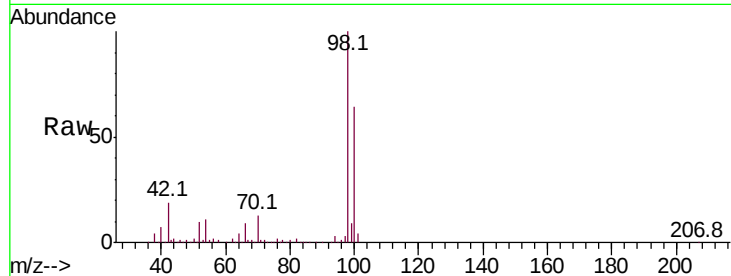




#50  
Toluene-d8  
Concen: 48.431 ug/l  
RT: 7.70 min Scan# 727  
Delta R.T. -0.02 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

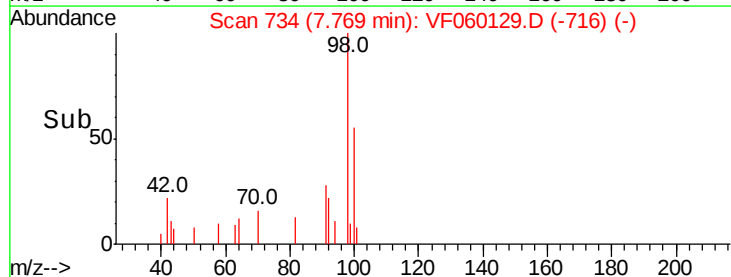
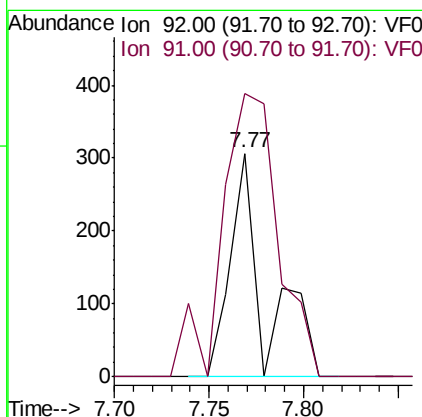
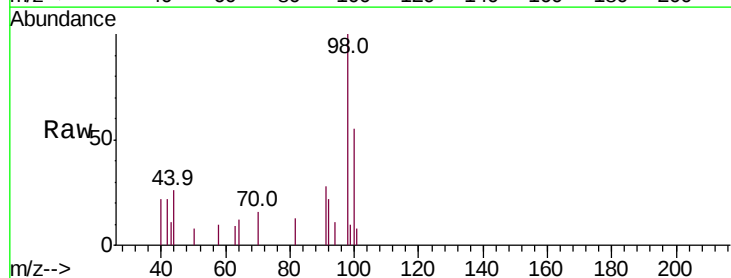
Instrument :  
MSVOA\_F  
ClientSampleId :

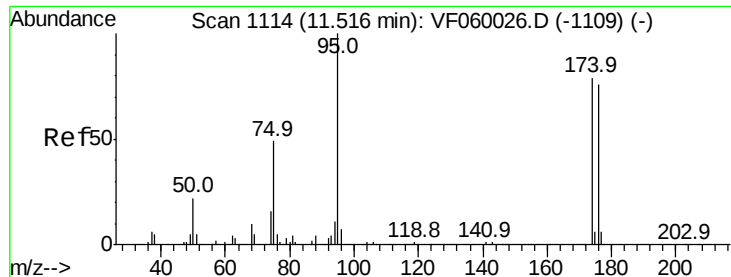
Tot Ion: 98 Resp: 195599  
Ion Ratio Lower Upper  
98 100  
100 63.8 53.2 79.8



#52  
Toluene  
Concen: Below Cal  
RT: 7.77 min Scan# 734  
Delta R.T. -0.02 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

Tgt Ion: 92 Resp: 387  
Ion Ratio Lower Upper  
92 100  
91 126.4 137.7 206.5#

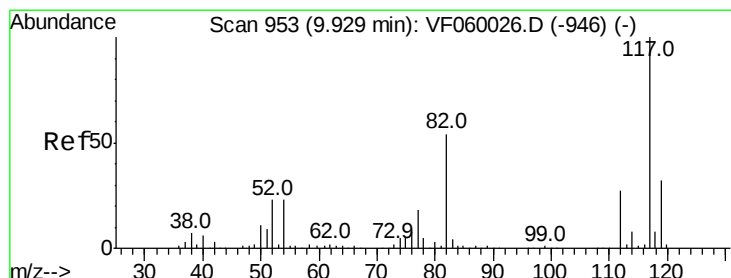
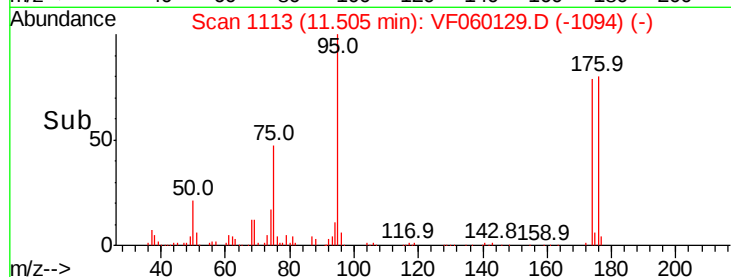
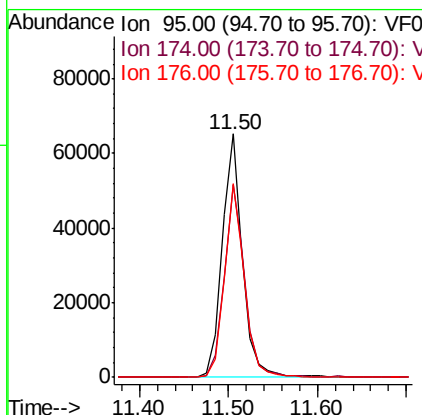
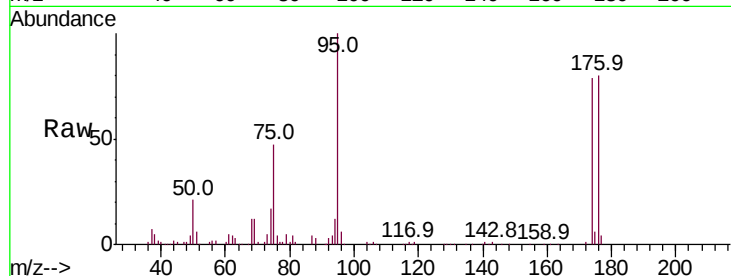




#62  
4-Bromofluorobenzene  
Concen: 48.795 ug/l  
RT: 11.50 min Scan# 1113  
Delta R.T. -0.01 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

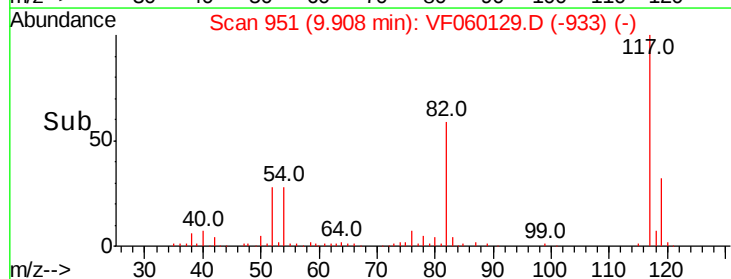
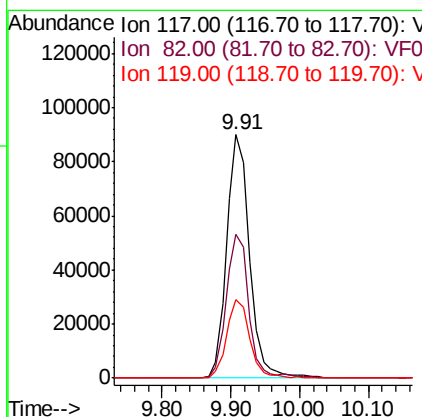
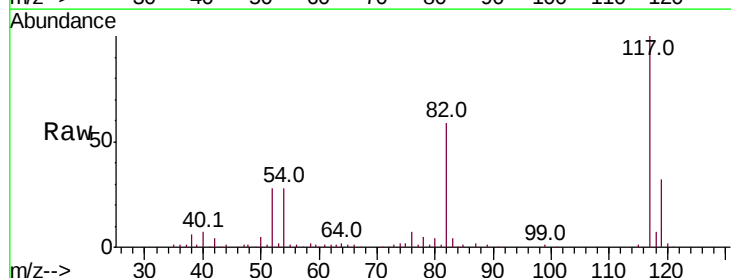
Instrument :  
MSVOA\_F  
ClientSampled :

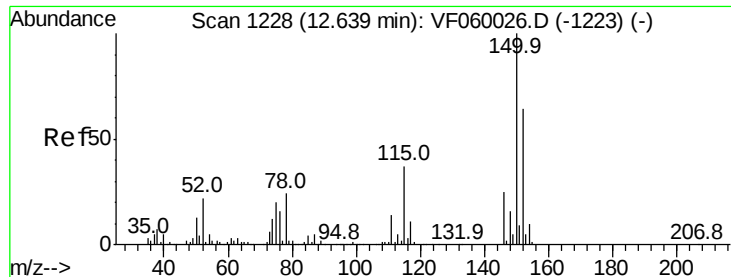
Tot Ion: 95 Resp: 104251  
Ion Ratio Lower Upper  
95 100  
174 79.2 0.0 158.4  
176 79.8 0.0 153.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 951  
Delta R.T. -0.02 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

Tgt Ion: 117 Resp: 206505  
Ion Ratio Lower Upper  
117 100  
82 58.9 43.6 65.4  
119 32.5 25.6 38.4



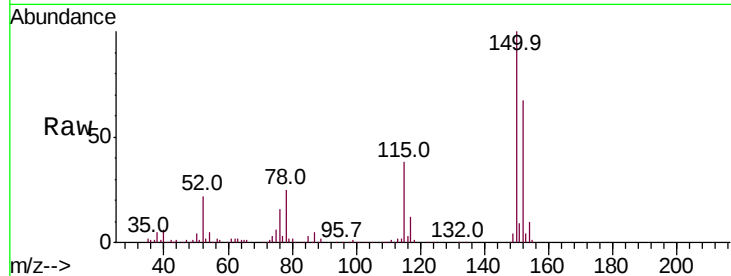


#72

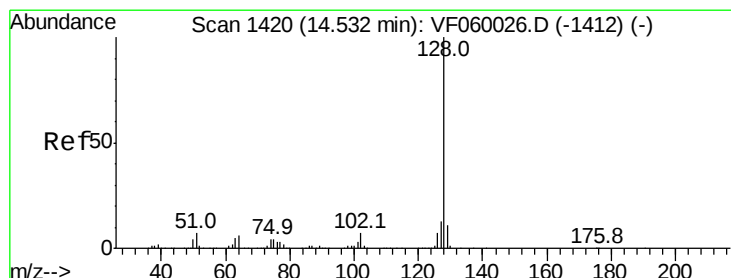
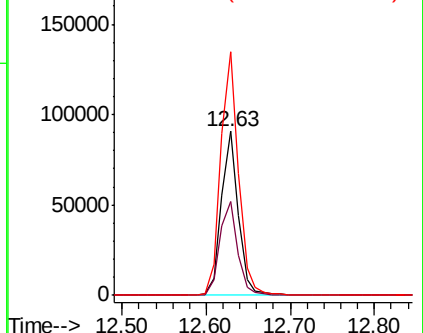
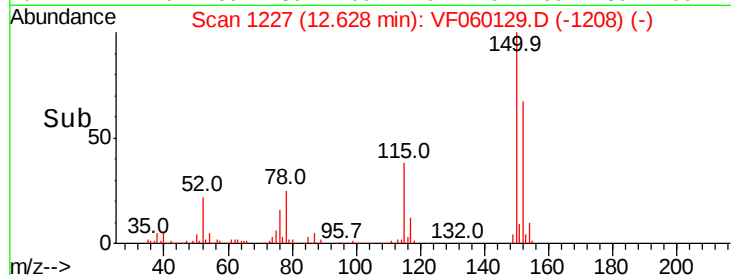
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.63 min Scan# 1227  
Delta R.T. -0.01 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:152 Resp: 127230  
Ion Ratio Lower Upper  
152 100  
115 57.0 28.6 85.9  
150 148.5 0.0 312.0



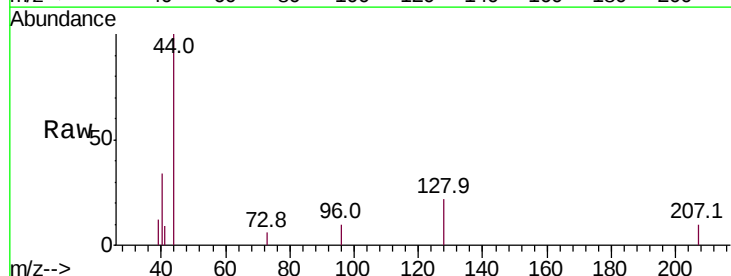
Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V



#95

Naphthalene  
Concen: 2.371 ug/l  
RT: 14.51 min Scan# 1418  
Delta R.T. -0.02 min  
Lab File: VF060129.D  
Acq: 27 Aug 2018 17:10

Tgt Ion:128 Resp: 420  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.4 15.6#  
129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

