

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\  
 Data File : VD067001.D  
 Acq On : 01 Oct 2020 19:09  
 Operator : VA/SY  
 Sample : L4198-01  
 Misc : 6.38G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RO-15

Quant Time: Oct 02 01:15:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

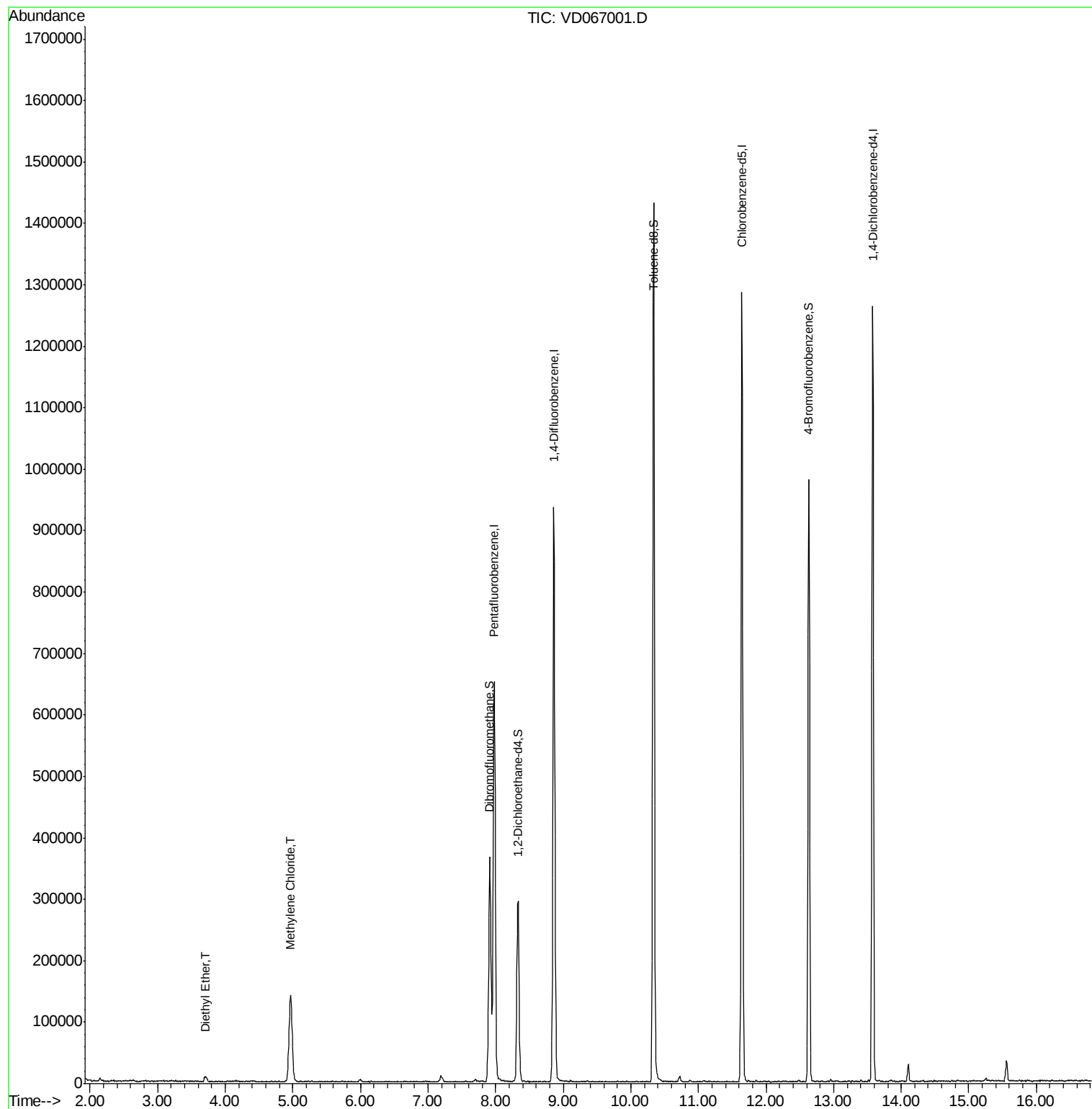
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.98  | 168  | 483248   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.86  | 114  | 805339   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.64 | 117  | 758514   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.58 | 152  | 343111   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 240947   | 51.77  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.54% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 258834   | 49.09  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.18%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 967817   | 50.38  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 100.76% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 316161   | 48.48  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 96.96%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 8) Diethyl Ether            | 3.70  | 74   | 3783     | 1.779  | ug/l #  | 52       |
| 20) Methylene Chloride      | 4.97  | 84   | 118861   | 19.074 | ug/l    | 96       |

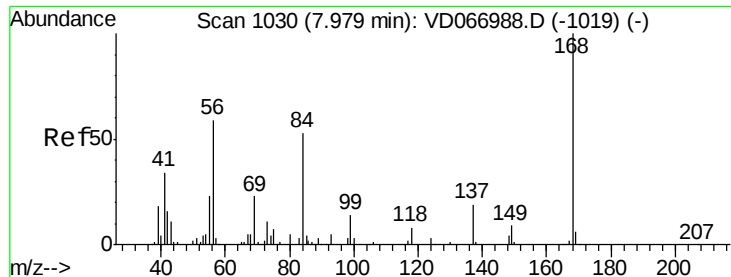
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100120\  
Data File : VD067001.D  
Acq On : 01 Oct 2020 19:09  
Operator : VA/SY  
Sample : L4198-01  
Misc : 6.38G/5.00ml/MSVOA D/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-15

Quant Time: Oct 02 01:15:32 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 15:19:17 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

Instrument :

MSVOA\_D

ClientSampleId :

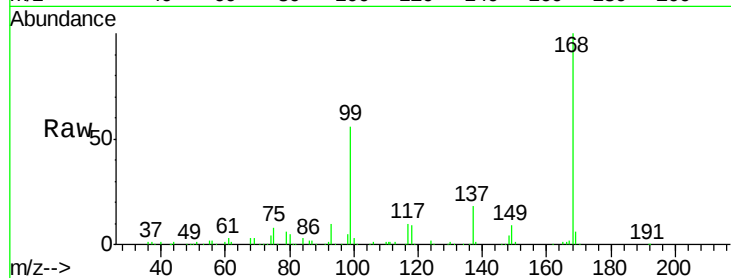
RO-15

Tot Ion:168 Resp: 483248

Ion Ratio Lower Upper

168 100

99 56.1 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

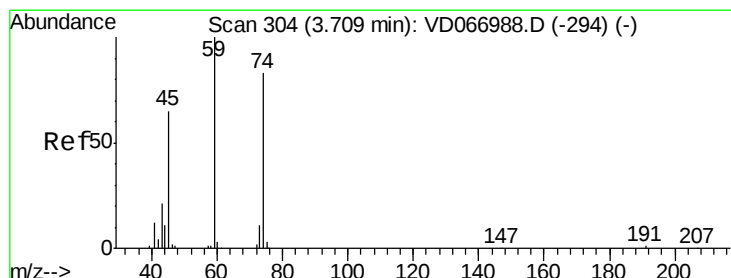
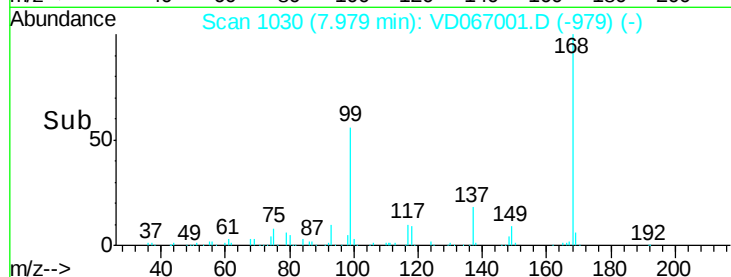
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.779 ug/l

RT: 3.70 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD067001.D

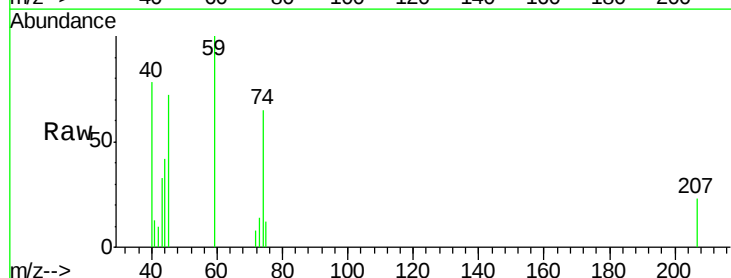
Acq: 01 Oct 2020 19:09

Tgt Ion: 74 Resp: 3783

Ion Ratio Lower Upper

74 100

45 130.8 43.1 129.3#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

3.70

2000

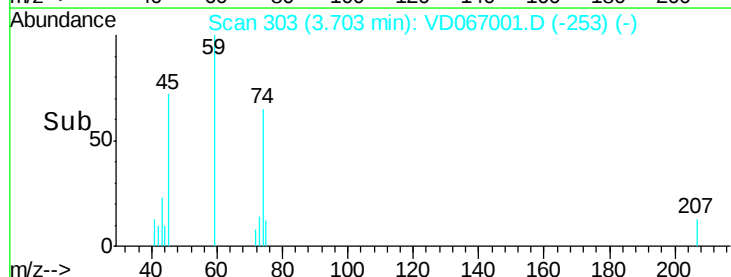
1500

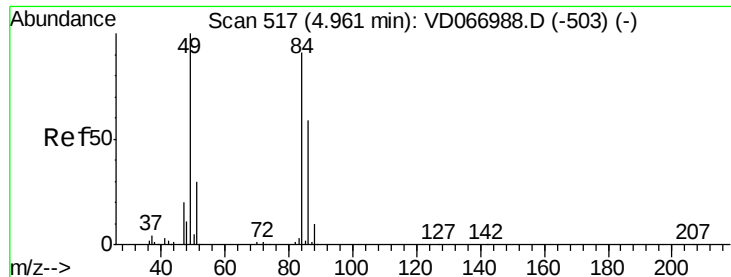
1000

500

0

Time-->

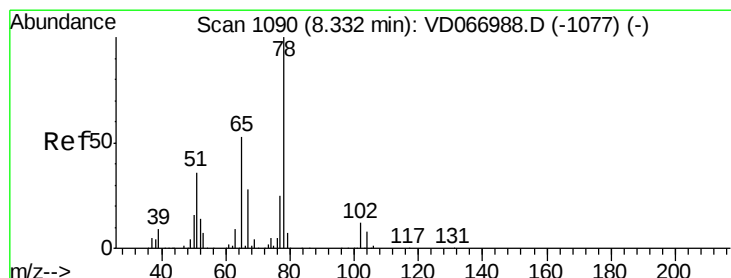
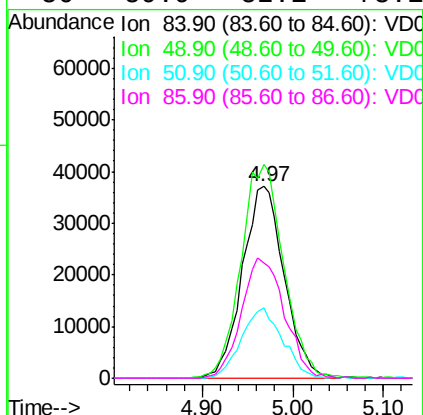
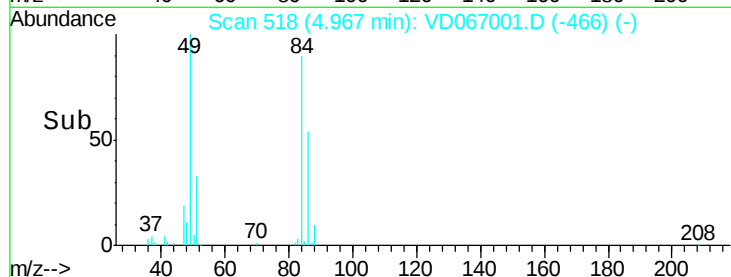
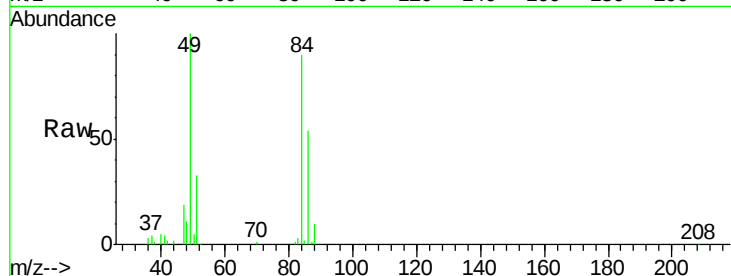




#20  
Methvlene Chloride  
Concen: 19.074 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.01 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

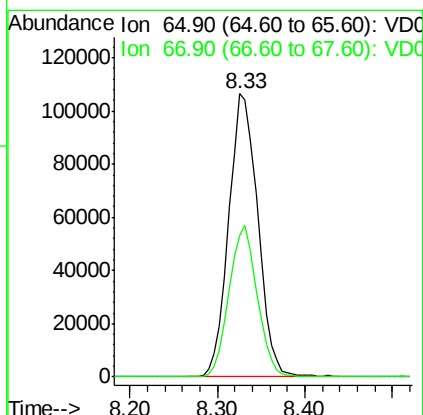
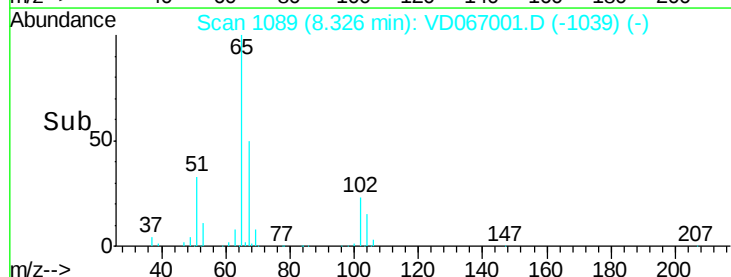
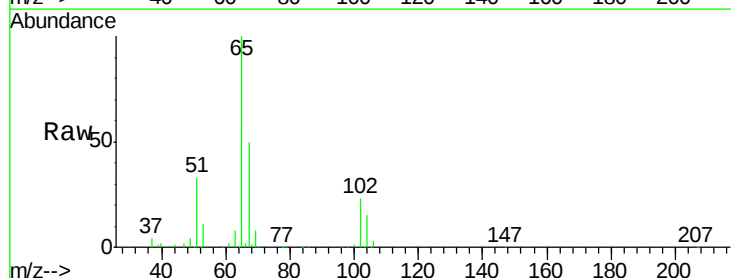
Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-15

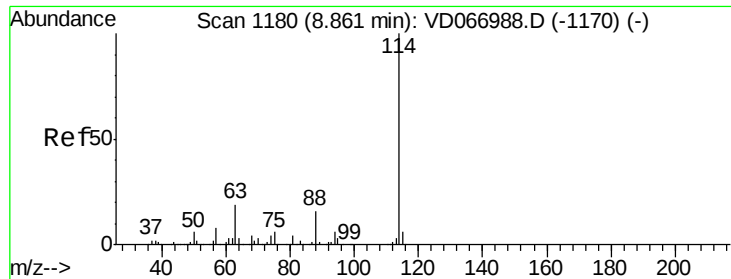
Tot Ion: 84 Resp: 118861  
Ion Ratio Lower Upper  
84 100  
49 111.4 88.2 132.2  
51 36.9 26.6 39.8  
86 59.9 52.1 78.1



#33  
1,2-Dichloroethane-d4  
Concen: 51.765 ug/l  
RT: 8.33 min Scan# 1089  
Delta R.T. -0.01 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

Tgt Ion: 65 Resp: 240947  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 106.8

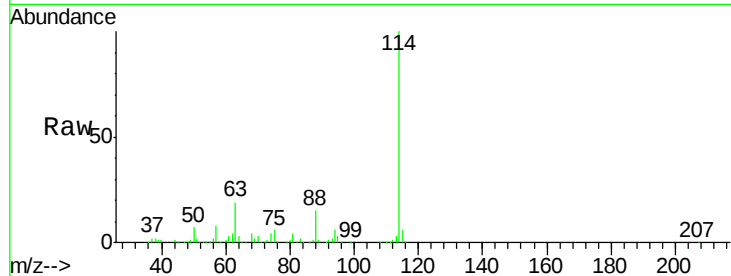




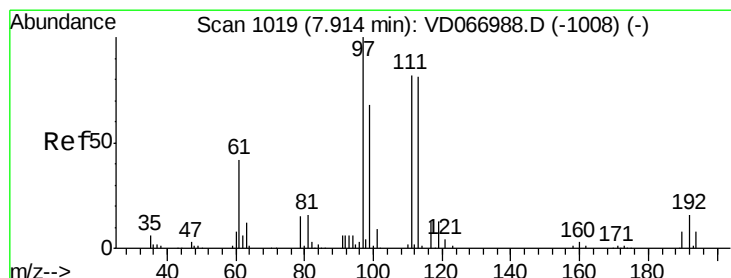
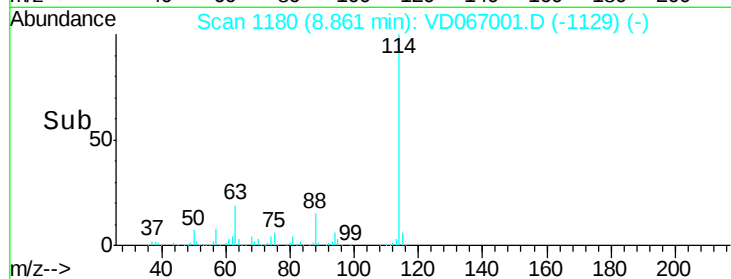
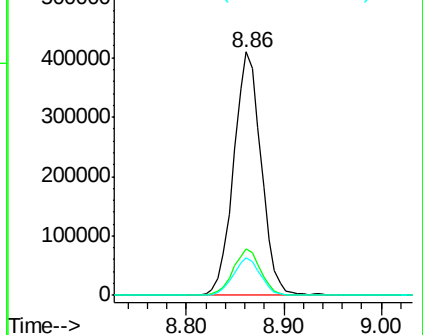
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD067001.D  
 Acq: 01 Oct 2020 19:09

Instrument :  
 MSVOA\_D  
 ClientSampled :  
 RO-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.2  | 0.0   | 38.4  |
| 88      | 15.4  | 0.0   | 31.2  |

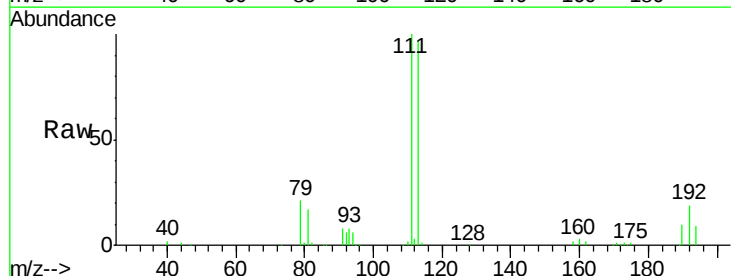


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

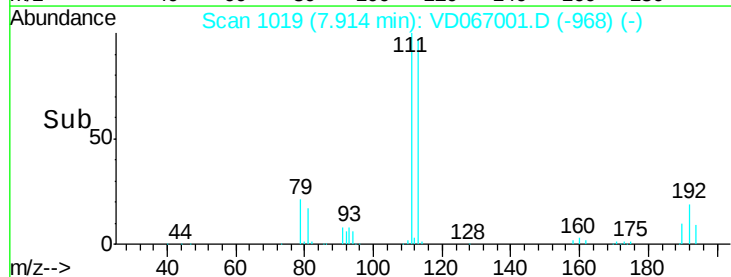
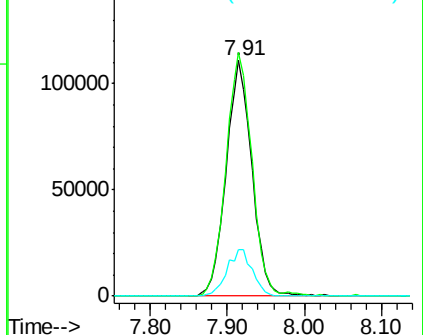


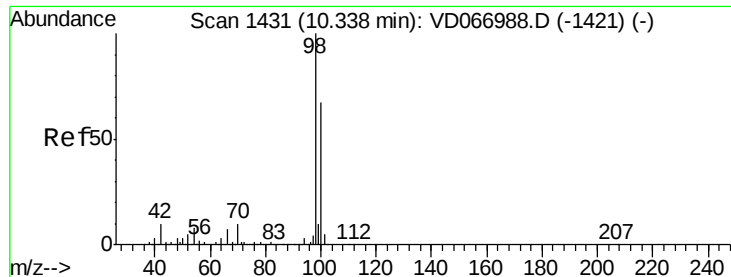
#35  
 Dibromofluoromethane  
 Concen: 49.092 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.00 min  
 Lab File: VD067001.D  
 Acq: 01 Oct 2020 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 83.0  | 124.4 |
| 192     | 19.6  | 15.5  | 23.3  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.376 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

Instrument :

MSVOA\_D

ClientSampleId :

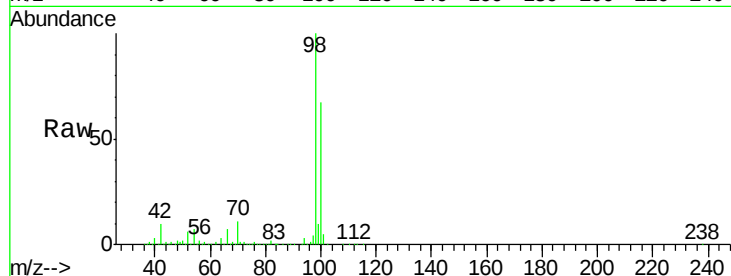
RO-15

Tot Ion: 98 Resp: 967817

Ion Ratio Lower Upper

98 100

100 65.8 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

600000

500000

400000

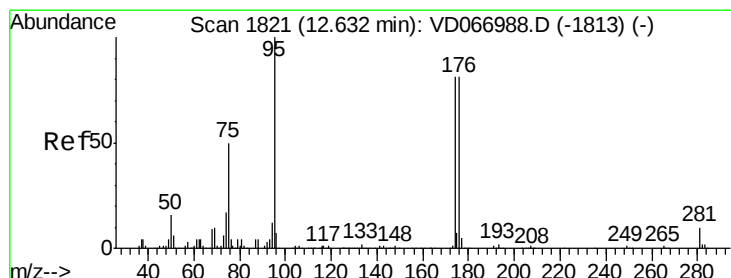
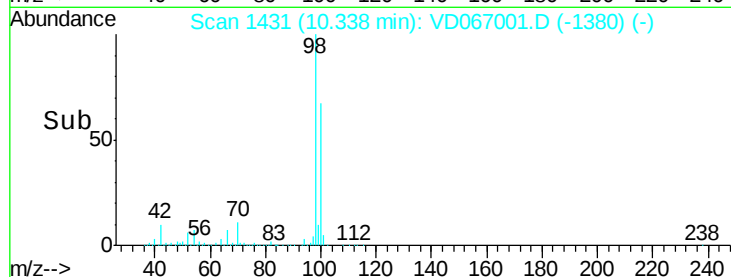
300000

200000

100000

0

Time--> 10.20 10.30 10.40 10.50



#62

4-Bromofluorobenzene

Concen: 48.476 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

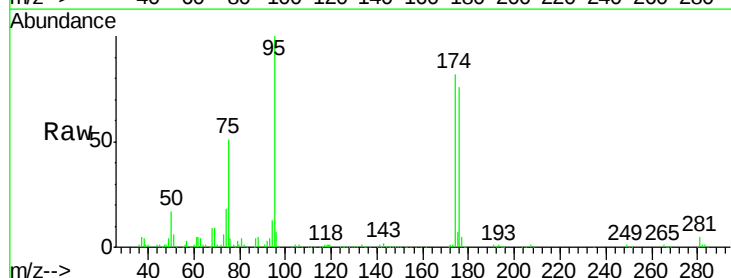
Tgt Ion: 95 Resp: 316161

Ion Ratio Lower Upper

95 100

174 83.9 0.0 167.6

176 78.6 0.0 162.4



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

12.63

250000

200000

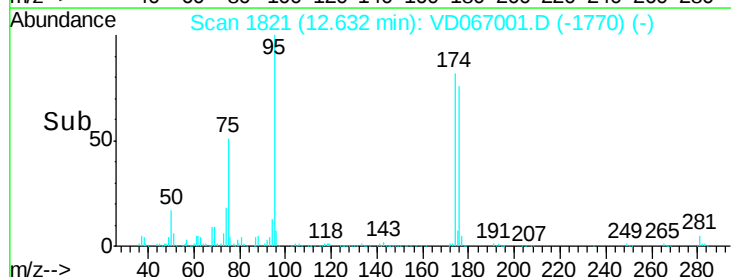
150000

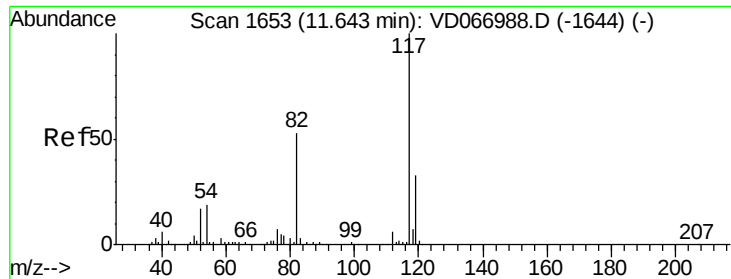
100000

50000

0

Time--> 12.60 12.70

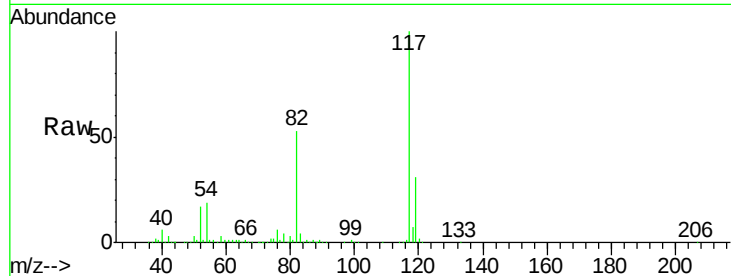




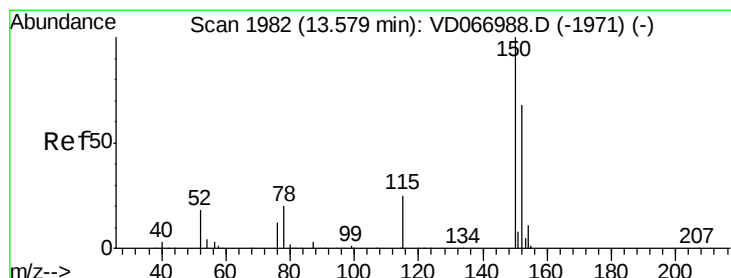
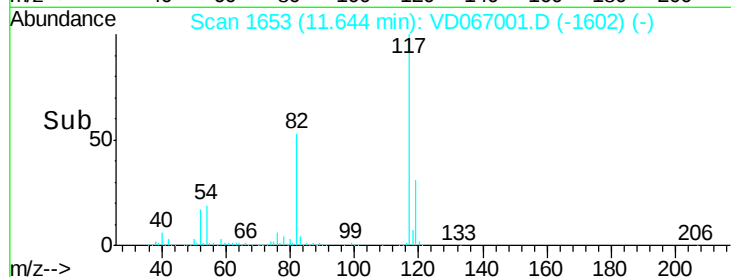
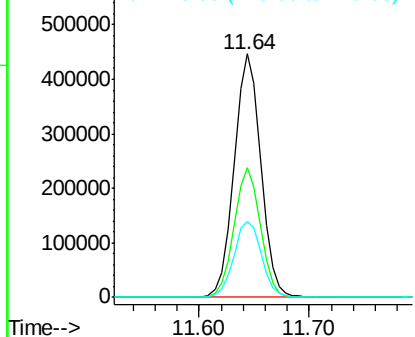
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-15

Tot Ion:117 Resp: 758514  
Ion Ratio Lower Upper  
117 100  
82 53.2 42.6 63.8  
119 31.1 26.3 39.5

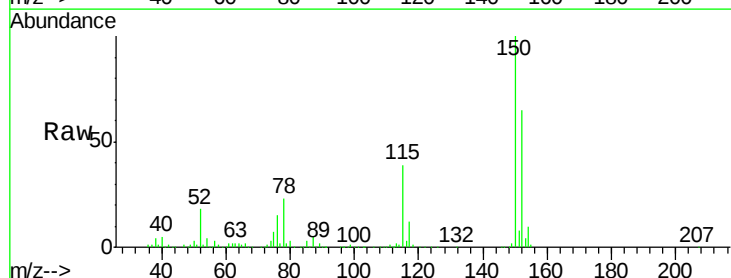


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

Tgt Ion:152 Resp: 343111  
Ion Ratio Lower Upper  
152 100  
115 58.8 29.6 88.8  
150 155.6 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

