

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120920\  
 Data File : VD067923.D  
 Acq On : 09 Dec 2020 12:58  
 Operator : VA/SY  
 Sample : L4983-14  
 Misc : 6.47G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR2-D-BOTTOM

Quant Time: Dec 10 03:38:36 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 02 08:05:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 223227   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 308475   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 278496   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 135233   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65    | 114348   | 47.72    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 95.44% |
| 35) Dibromofluoromethane  | 7.92   | 113   | 94140    | 45.61    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 91.22% |
| 50) Toluene-d8            | 10.34  | 98    | 351869   | 47.35    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 94.70% |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 115550   | 44.98    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 89.96% |

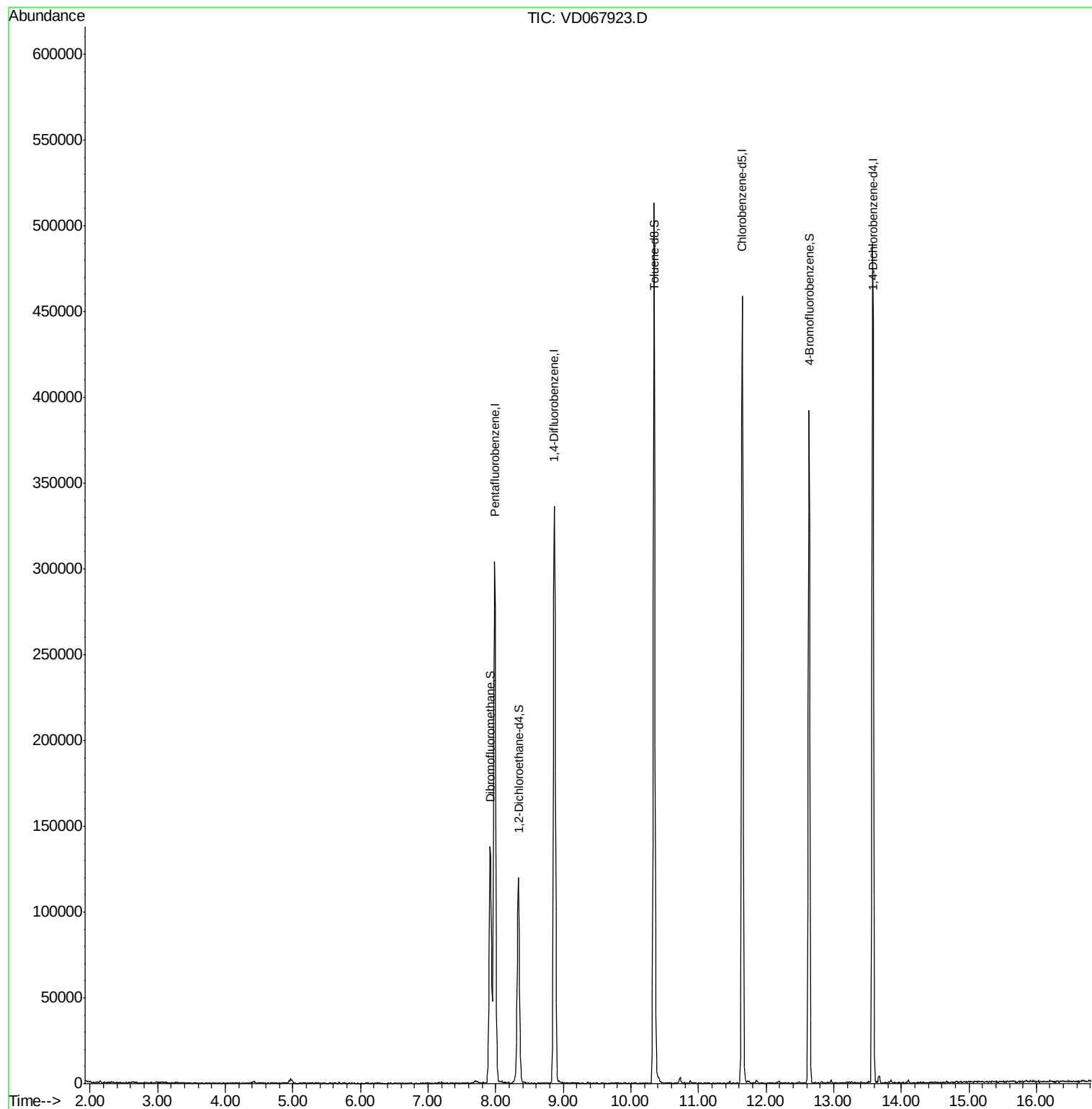
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

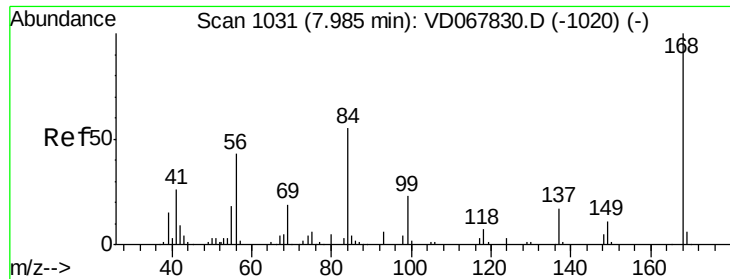
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Dec 02 08:05:58 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067923.D

Acq: 09 Dec 2020 12:58

Instrument :

MSVOA\_D

ClientSampleId :

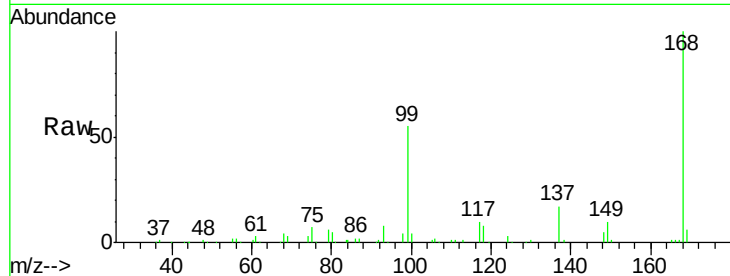
TR2-D-BOTTOM

Tot Ion:168 Resp: 223227

Ion Ratio Lower Upper

168 100

99 54.5 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

120000

100000

80000

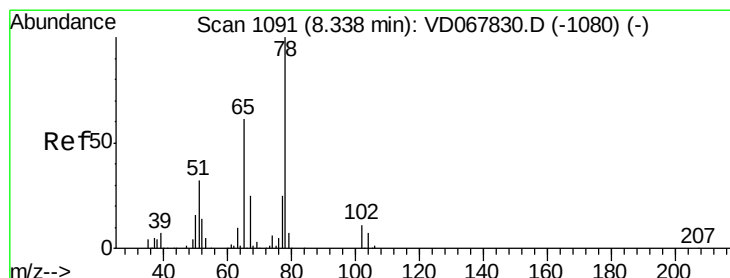
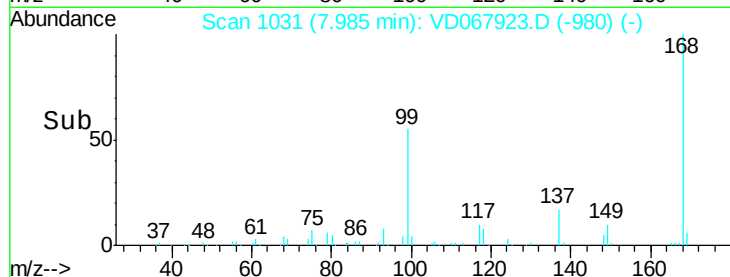
60000

40000

20000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 47.716 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD067923.D

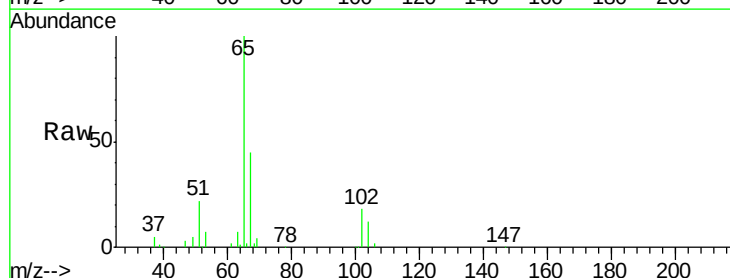
Acq: 09 Dec 2020 12:58

Tgt Ion: 65 Resp: 114348

Ion Ratio Lower Upper

65 100

67 44.4 0.0 92.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

60000

50000

40000

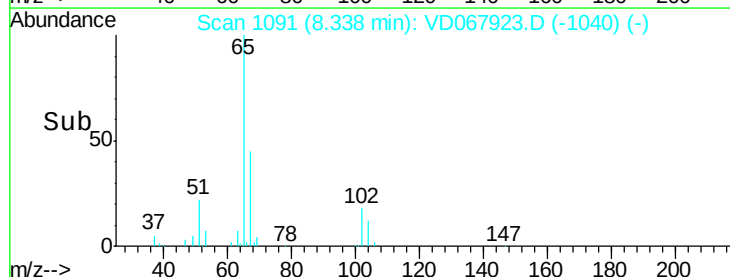
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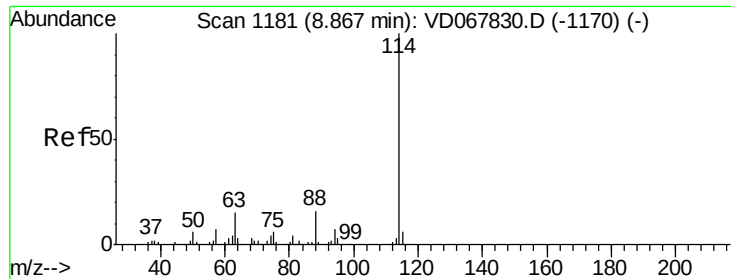
20000

10000

0

Time-->

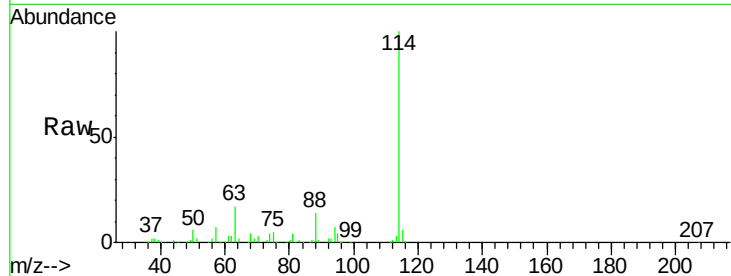




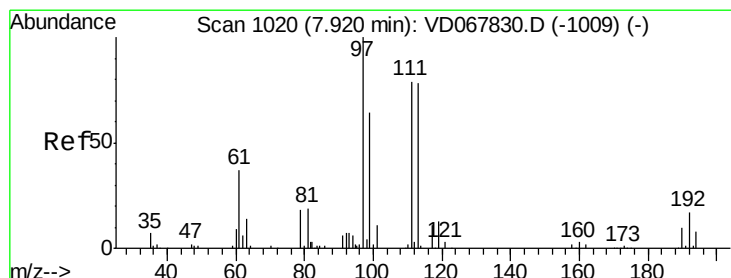
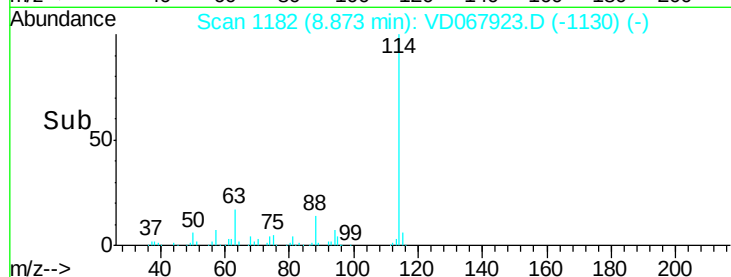
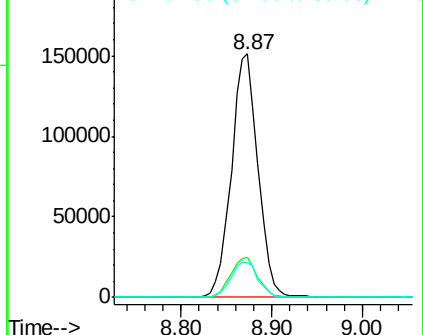
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.87 min Scan# 1182  
Delta R.T. 0.01 min  
Lab File: VD067923.D  
Acq: 09 Dec 2020 12:58

Instrument :  
MSVOA\_D  
ClientSampleId :  
TR2-D-BOTTOM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 16.6  | 0.0   | 30.8  |
| 88      | 14.4  | 0.0   | 31.8  |

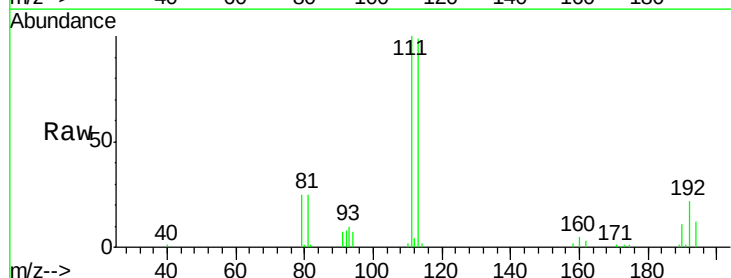


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): V  
Ion 87.90 (87.60 to 88.60): V

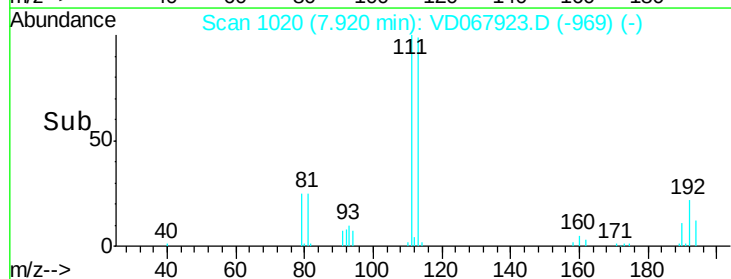
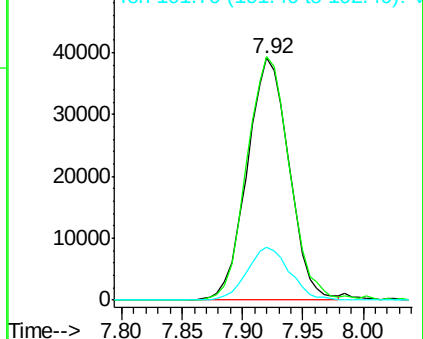


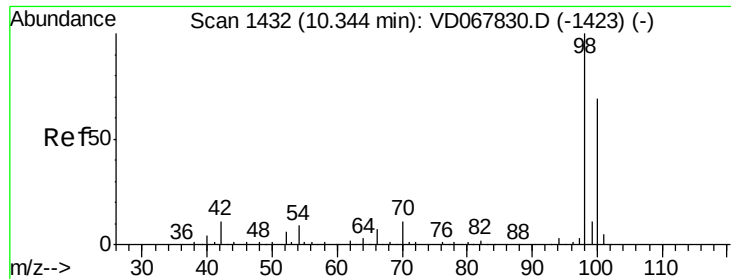
#35  
Dibromofluoromethane  
Concen: 45.607 ug/l  
RT: 7.92 min Scan# 1020  
Delta R.T. 0.00 min  
Lab File: VD067923.D  
Acq: 09 Dec 2020 12:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 81.2  | 121.8 |
| 192     | 22.1  | 16.8  | 25.2  |



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: 47.354 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067923.D

Acq: 09 Dec 2020 12:58

Instrument :

MSVOA\_D

ClientSampleId :

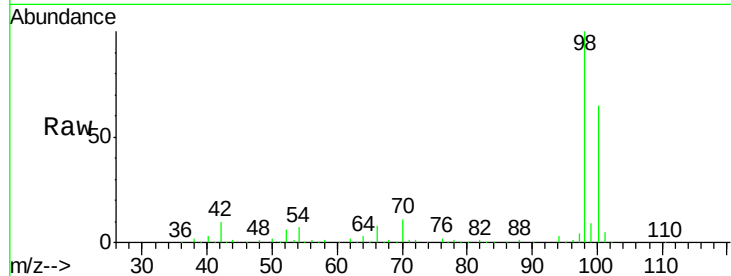
TR2-D-BOTTOM

Tot Ion: 98 Resp: 351869

Ion Ratio Lower Upper

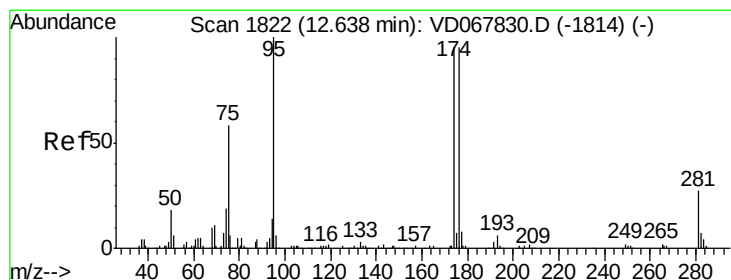
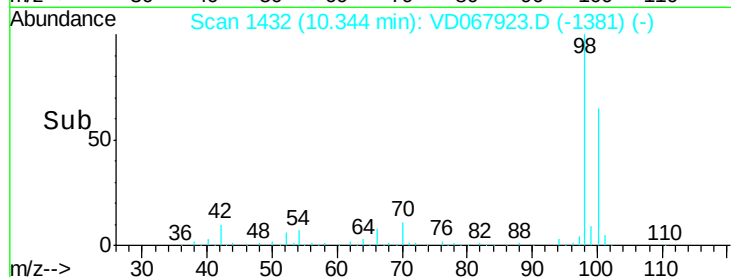
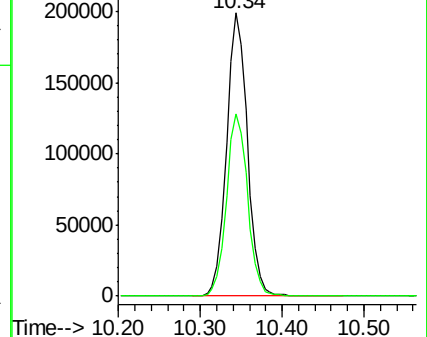
98 100

100 65.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VD067830.D (-1423) (-)

Ion 100.00 (99.70 to 100.70): VD067830.D (-1423) (-)



#62

4-Bromofluorobenzene

Concen: 44.980 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067923.D

Acq: 09 Dec 2020 12:58

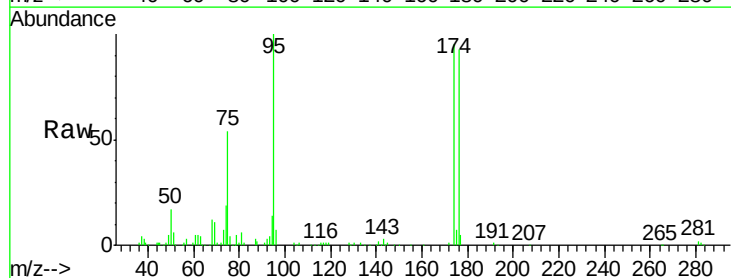
Tgt Ion: 95 Resp: 115550

Ion Ratio Lower Upper

95 100

174 94.9 0.0 186.0

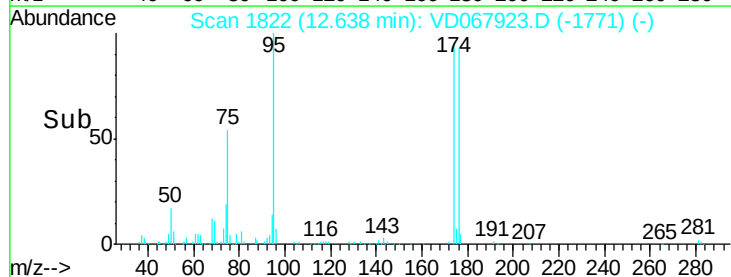
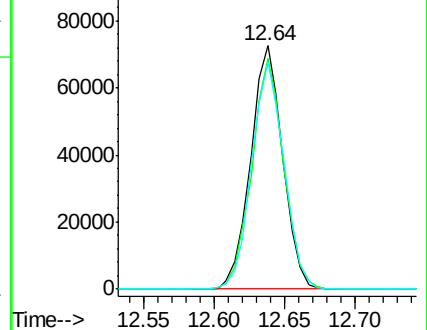
176 94.0 0.0 184.2

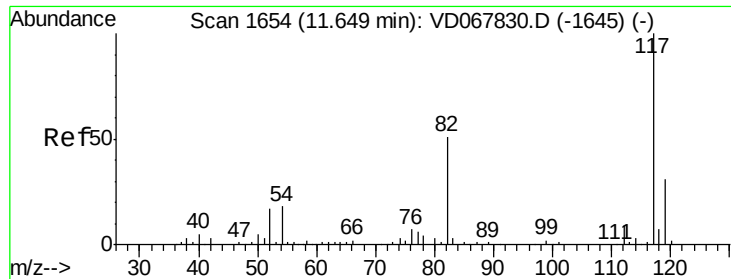


Abundance Ion 94.90 (94.60 to 95.60): VD067830.D (-1814) (-)

Ion 173.80 (173.50 to 174.50): VD067830.D (-1814) (-)

Ion 175.80 (175.50 to 176.50): VD067830.D (-1814) (-)

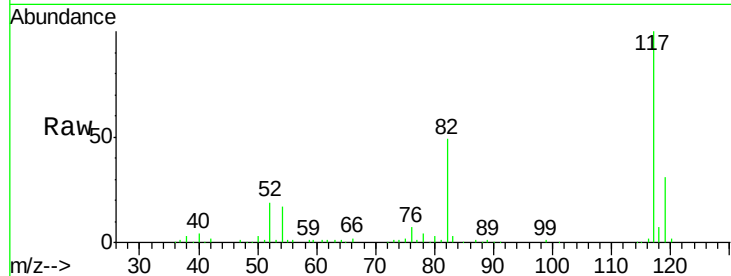




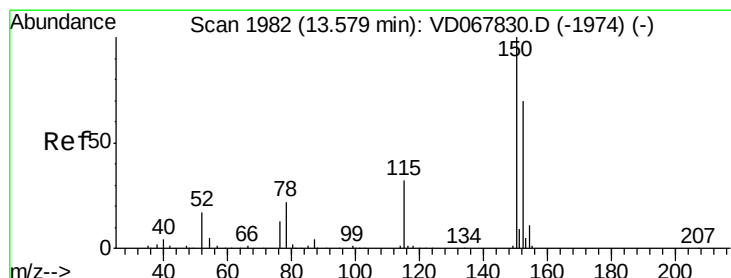
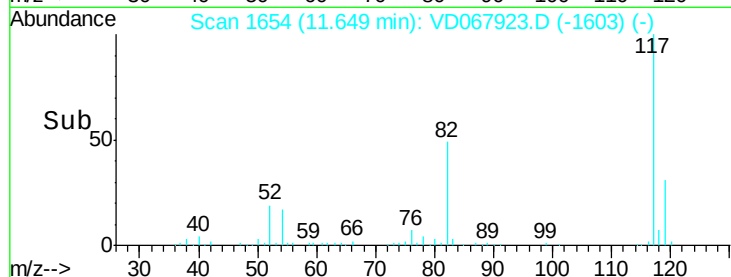
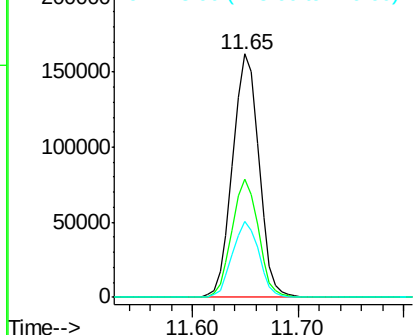
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067923.D  
Acq: 09 Dec 2020 12:58

Instrument :  
MSVOA\_D  
ClientSampleId :  
TR2-D-BOTTOM

Tot Ion:117 Resp: 278496  
Ion Ratio Lower Upper  
117 100  
82 48.7 40.6 60.8  
119 31.0 25.1 37.7

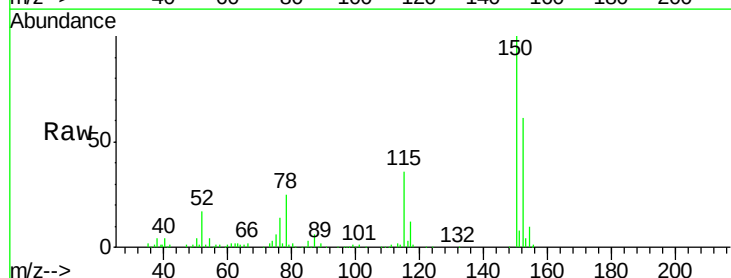


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067923.D  
Acq: 09 Dec 2020 12:58

Tgt Ion:152 Resp: 135233  
Ion Ratio Lower Upper  
152 100  
115 57.9 29.1 87.4  
150 158.5 0.0 339.0



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

