

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010920\  
 Data File : VD064817.D  
 Acq On : 09 Jan 2020 15:20  
 Operator : VA/SY  
 Sample : L1051-04  
 Misc : 7.12G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-4H-(14.5-16.5)

Quant Time: Jan 09 16:23:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

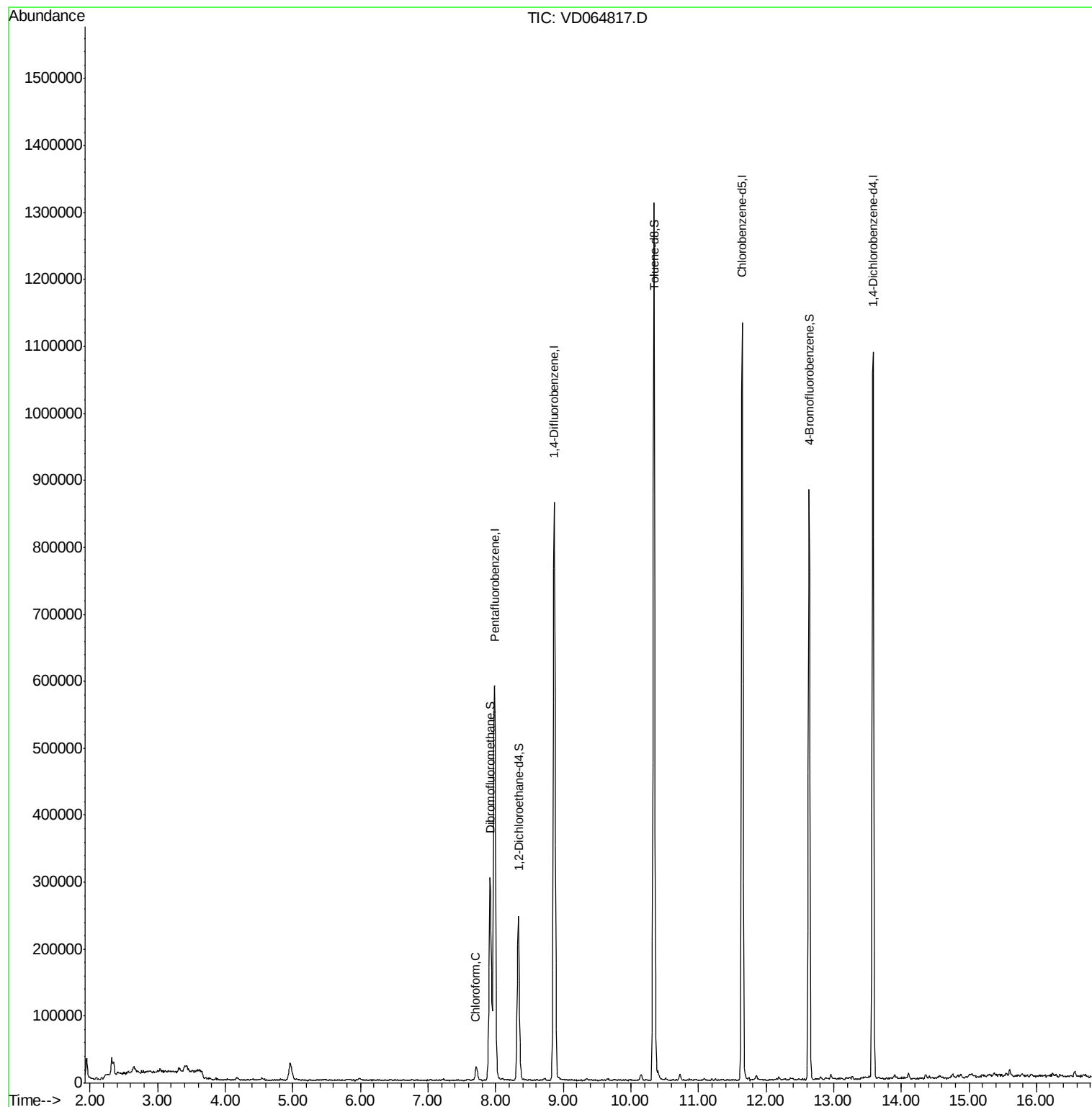
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|---------|-----------|
| 1) Pentafluorobenzene       | 7.98  | 168  | 471944   | 50.00 | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.87  | 114  | 727280   | 50.00 | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.65 | 117  | 631486   | 50.00 | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.58 | 152  | 287435   | 50.00 | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |       |         |           |
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 193123   | 46.41 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.82%  |           |
| 35) Dibromofluoromethane    | 7.92  | 113  | 212685   | 47.67 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.34%  |           |
| 50) Toluene-d8              | 10.34 | 98   | 869839   | 50.90 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.80% |           |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 255233   | 47.23 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.46%  |           |
| Target Compounds            |       |      |          |       |         |           |
| 30) Chloroform              | 7.71  | 83   | 17904    | 2.201 | ug/l    | Qvalue 88 |

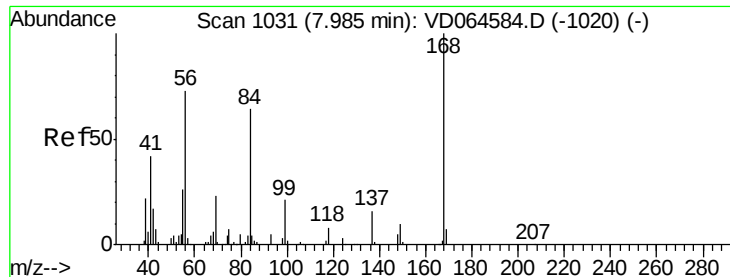
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD010920\  
Data File : VD064817.D  
Acq On : 09 Jan 2020 15:20  
Operator : VA/SY  
Sample : L1051-04  
Misc : 7.12G/5.00ml/MSVOA D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4H-(14.5-16.5)

Quant Time: Jan 09 16:23:22 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 24 13:19:06 2019  
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: VD064817.D

Acq: 09 Jan 2020 15:20

Instrument :

MSVOA\_D

ClientSampleId :

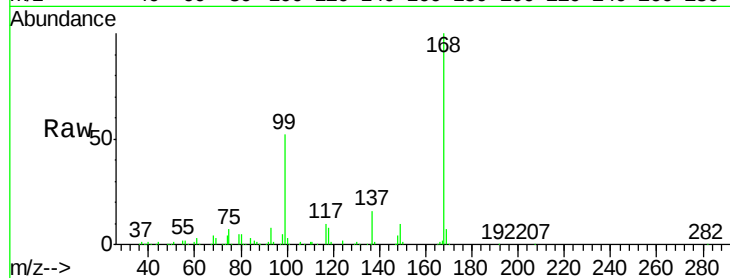
SB-4H-(14.5-16.5)

Tot Ion:168 Resp: 471944

Ion Ratio Lower Upper

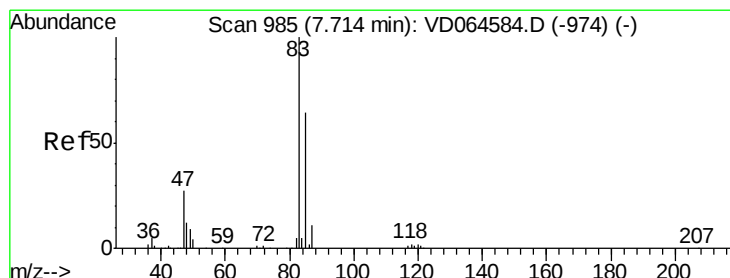
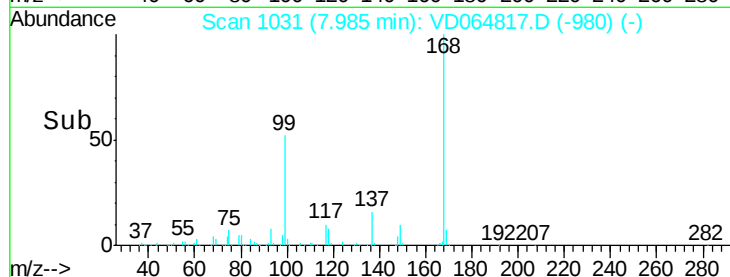
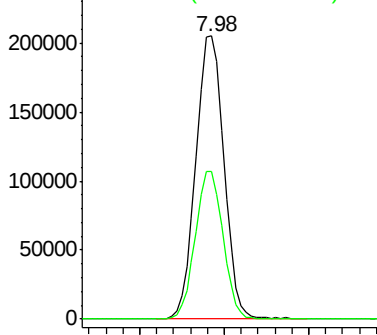
168 100

99 52.2 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#30

Chloroform

Concen: 2.201 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064817.D

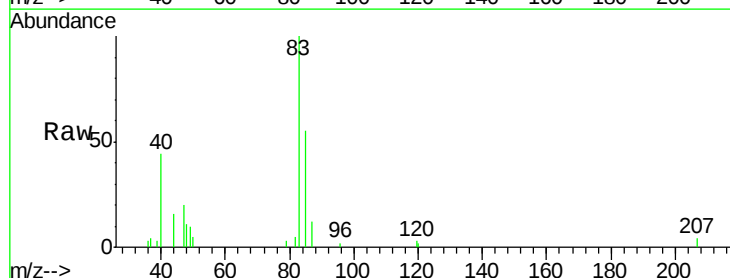
Acq: 09 Jan 2020 15:20

Tgt Ion: 83 Resp: 17904

Ion Ratio Lower Upper

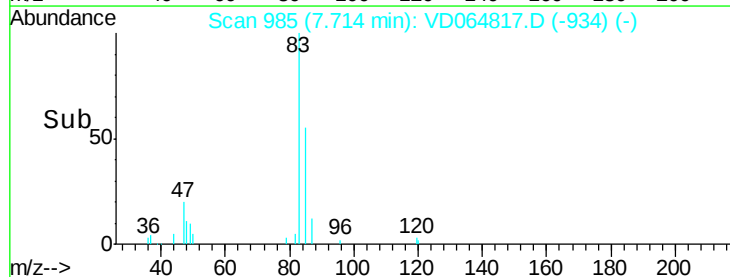
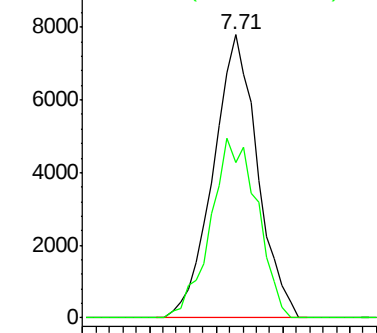
83 100

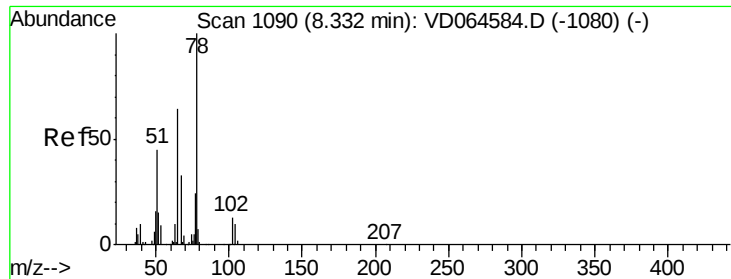
85 54.7 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 46.407 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064817.D

Acq: 09 Jan 2020 15:20

Instrument :

MSVOA\_D

ClientSampleId :

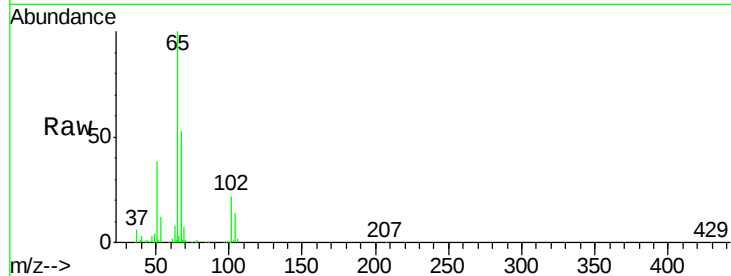
SB-4H-(14.5-16.5)

Tot Ion: 65 Resp: 193123

Ion Ratio Lower Upper

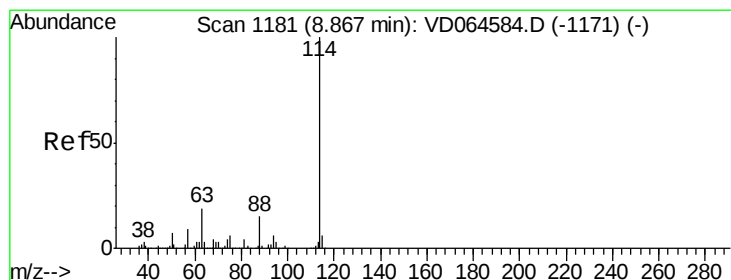
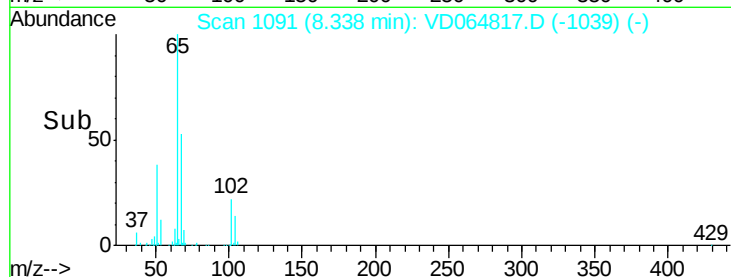
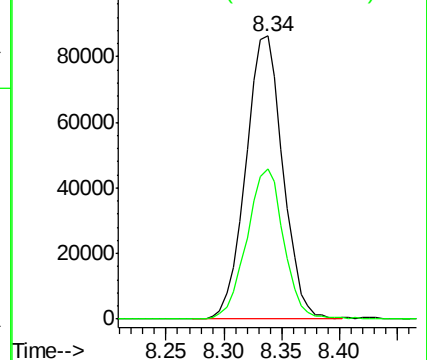
65 100

67 52.9 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064817.D

Acq: 09 Jan 2020 15:20

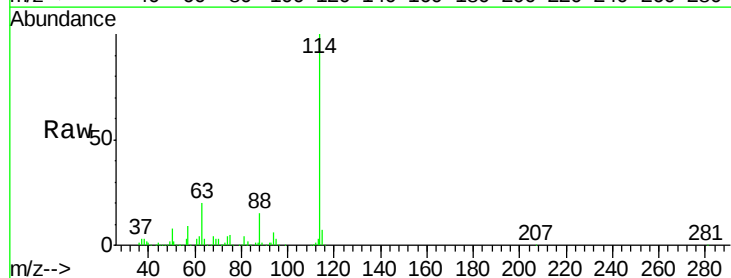
Tgt Ion: 114 Resp: 727280

Ion Ratio Lower Upper

114 100

63 20.2 0.0 38.0

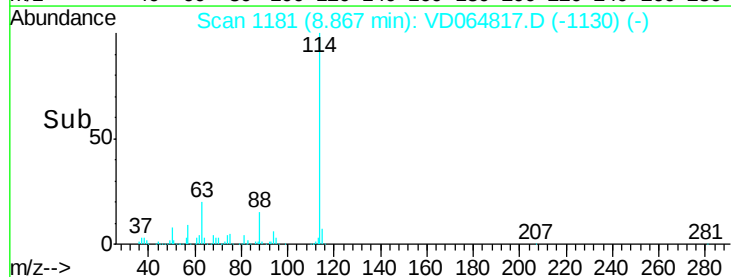
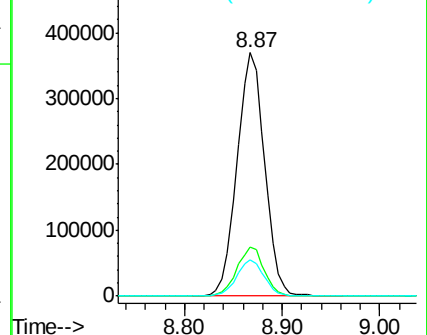
88 15.0 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

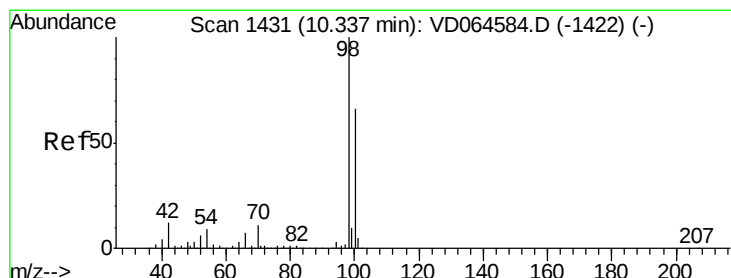
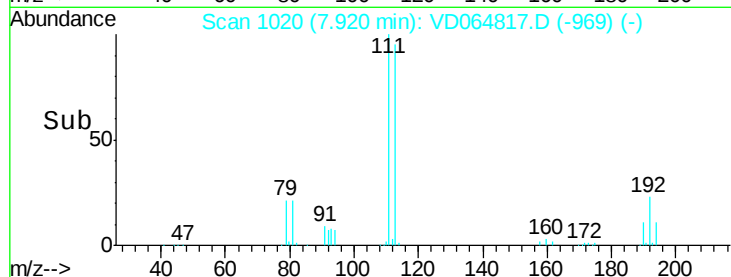
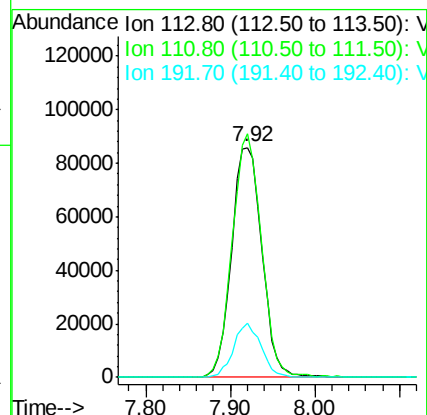
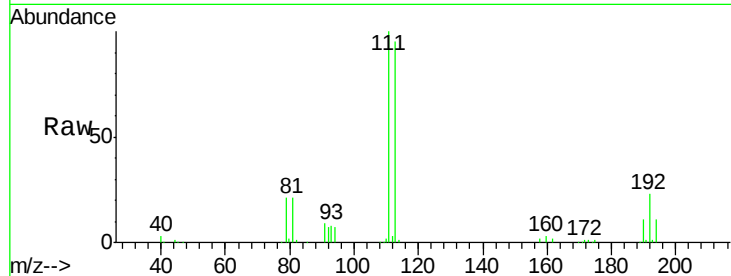




#35  
Dibromofluoromethane  
Concen: 47.666 ug/l  
RT: 7.92 min Scan# 1020  
Delta R.T. 0.00 min  
Lab File: VD064817.D  
Acq: 09 Jan 2020 15:20

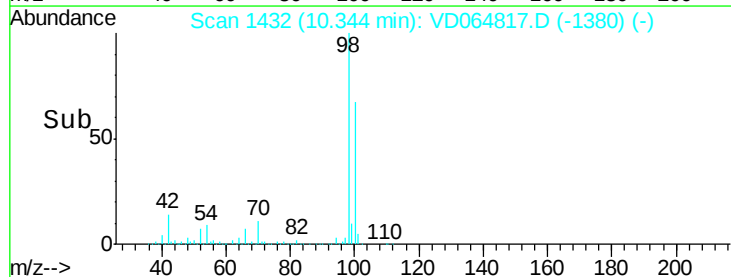
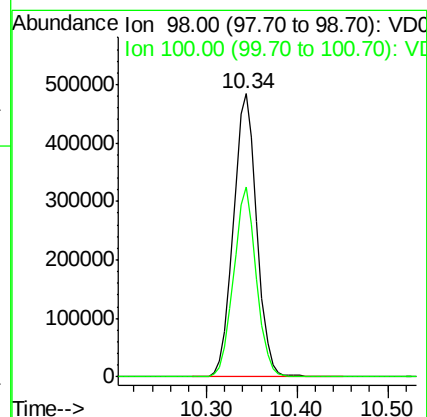
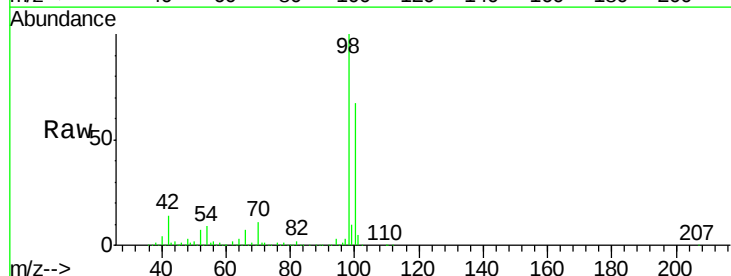
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4H-(14.5-16.5)

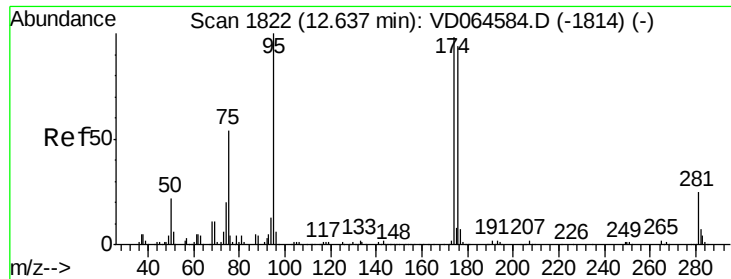
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 80.6  | 121.0 |
| 192     | 21.5  | 17.9  | 26.9  |



#50  
Toluene-d8  
Concen: 50.901 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.01 min  
Lab File: VD064817.D  
Acq: 09 Jan 2020 15:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.8  | 51.7  | 77.5  |

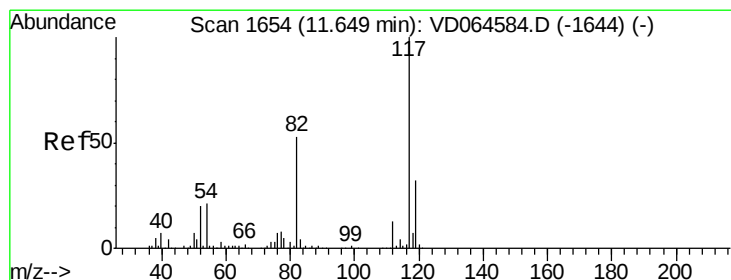
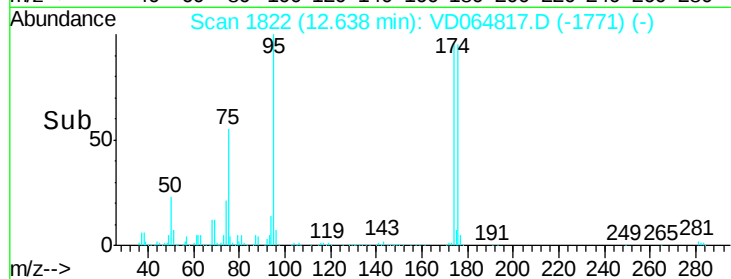
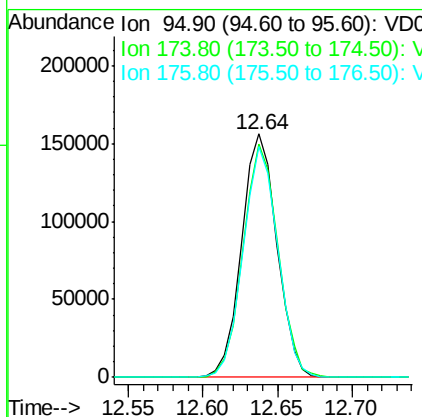
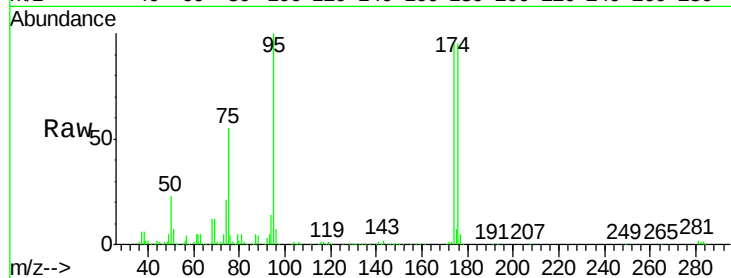




#62  
4-Bromofluorobenzene  
Concen: 47.233 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD064817.D  
Acq: 09 Jan 2020 15:20

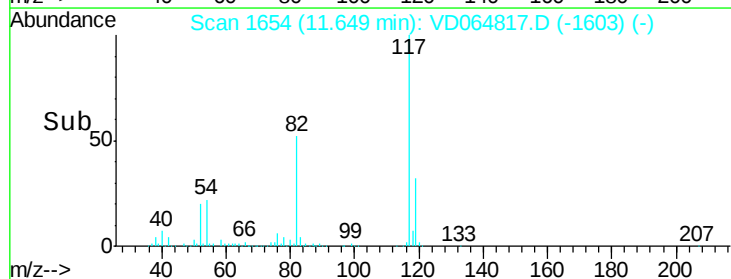
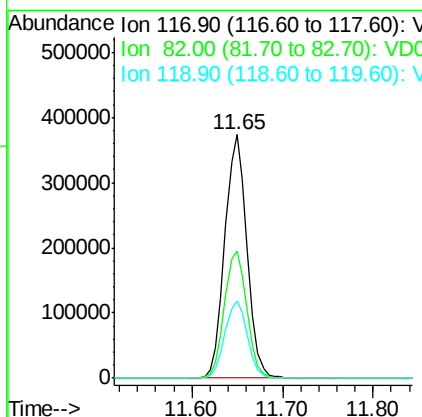
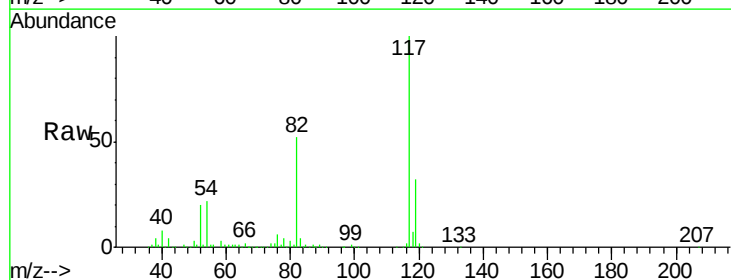
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-4H-(14.5-16.5)

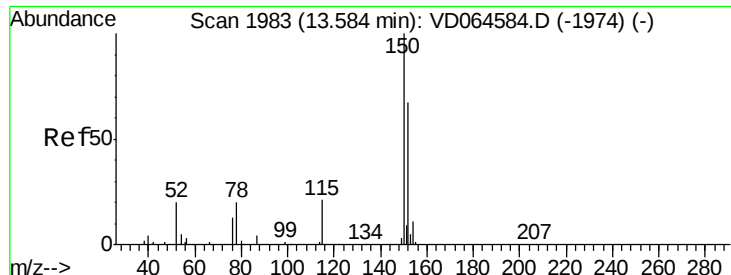
Tot Ion: 95 Resp: 255233  
Ion Ratio Lower Upper  
95 100  
174 95.0 0.0 193.2  
176 93.2 0.0 184.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064817.D  
Acq: 09 Jan 2020 15:20

Tgt Ion: 117 Resp: 631486  
Ion Ratio Lower Upper  
117 100  
82 52.2 42.2 63.4  
119 31.9 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064817.D

Acq: 09 Jan 2020 15:20

Instrument :

MSVOA\_D

ClientSampleId :

SB-4H-(14.5-16.5)

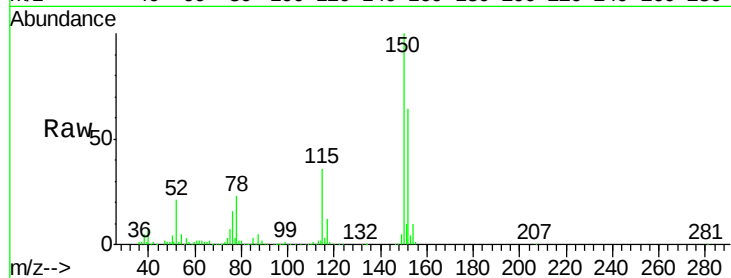
Tot Ion:152 Resp: 287435

Ion Ratio Lower Upper

152 100

115 56.7 27.8 83.4

150 158.4 0.0 351.4



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

