

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012220\  
 Data File : VD064916.D  
 Acq On : 22 Jan 2020 14:38  
 Operator : VA/SY  
 Sample : VD0122SBL01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0122SBL01

Quant Time: Jan 22 23:45:16 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  | 516465   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 821760   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 766910   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 361820   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 251157   | 55.15 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 110.30% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 250564   | 49.70 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.40%  |      |
| 50) Toluene-d8              | 10.34  | 98  | 994217   | 51.49 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.98% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 322111   | 52.76 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.52% |      |

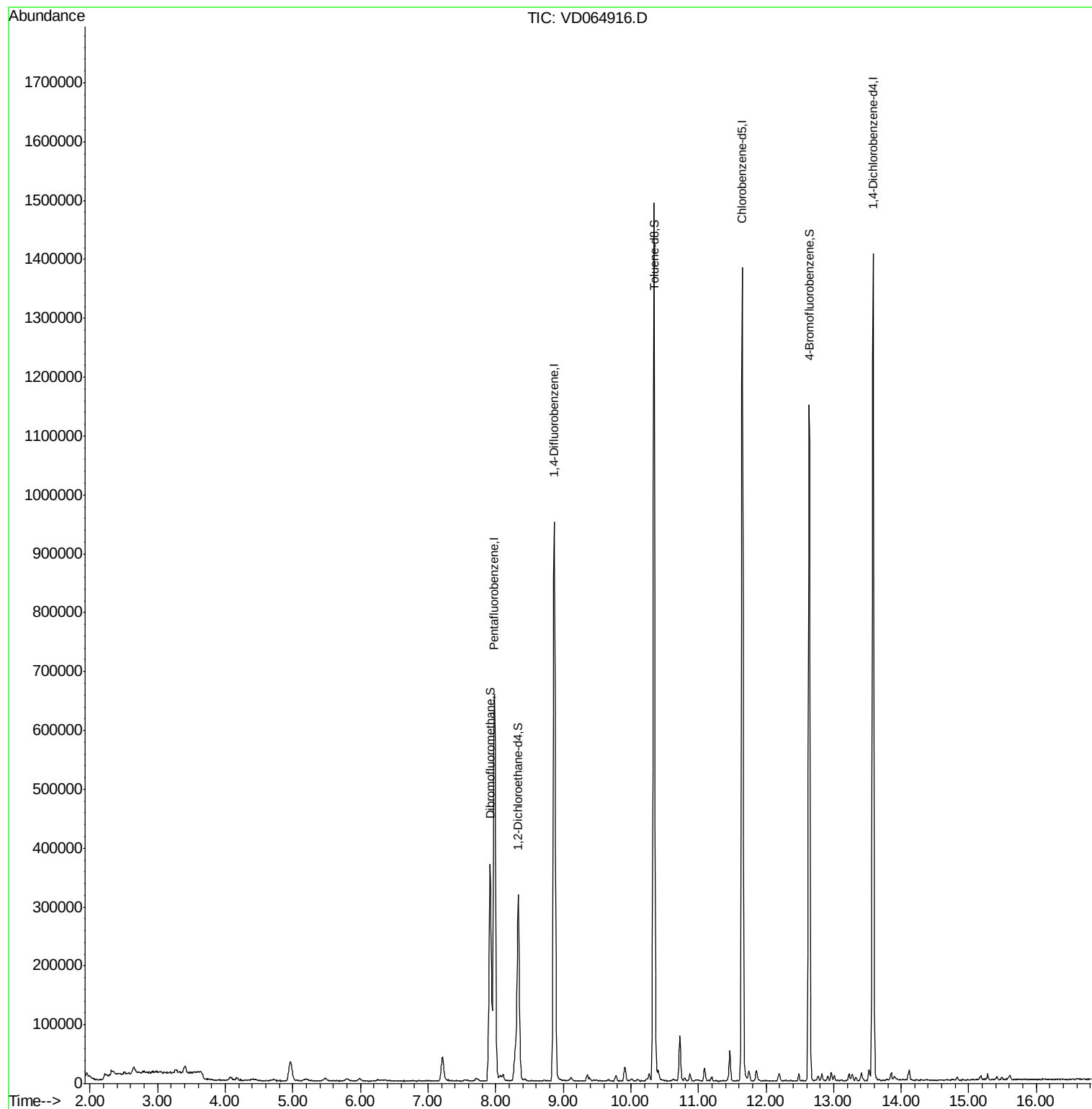
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

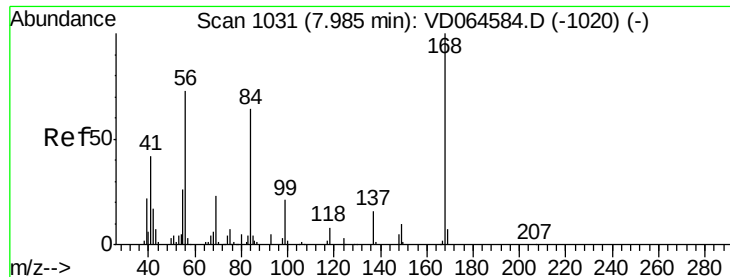
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0122SBL01

Quant Time: Jan 22 23:45:16 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: VD064916.D

Acq: 22 Jan 2020 14:38

Instrument :

MSVOA\_D

ClientSampleId :

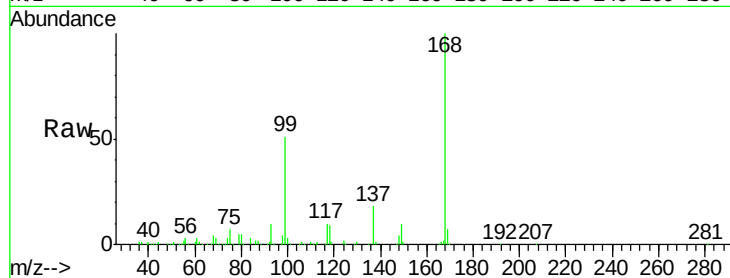
VD0122SBL01

Tot Ion:168 Resp: 516465

Ion Ratio Lower Upper

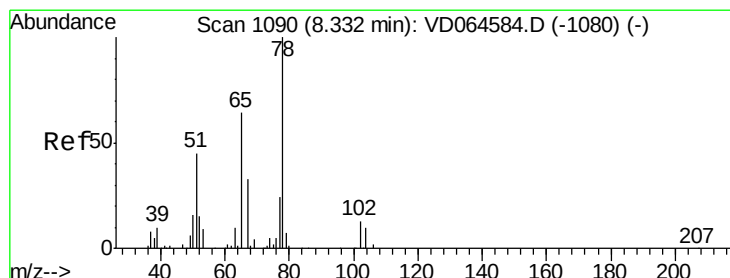
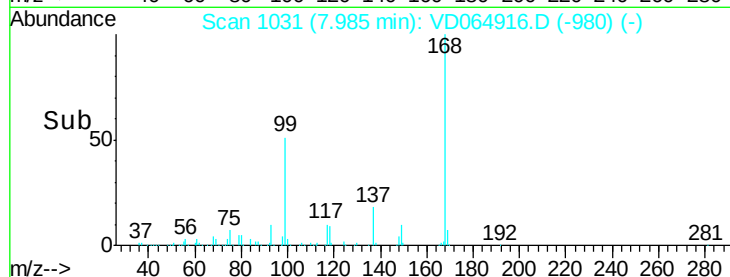
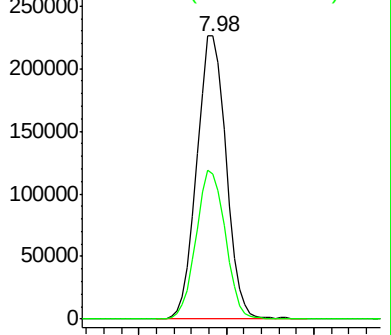
168 100

99 51.0 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#33

1,2-Dichloroethane-d4

Concen: 55.149 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064916.D

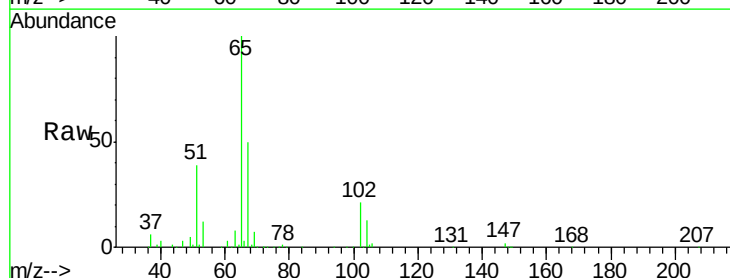
Acq: 22 Jan 2020 14:38

Tgt Ion: 65 Resp: 251157

Ion Ratio Lower Upper

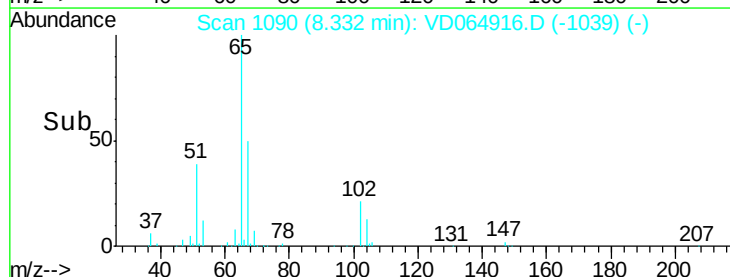
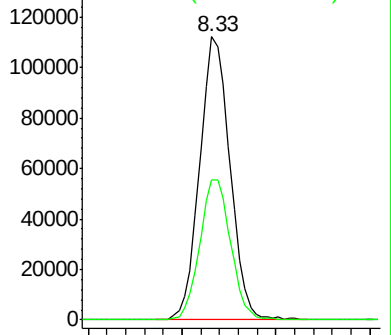
65 100

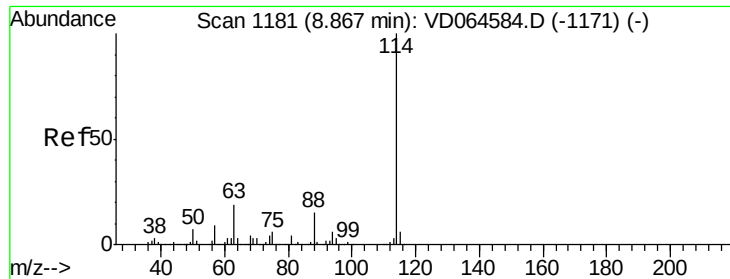
67 50.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

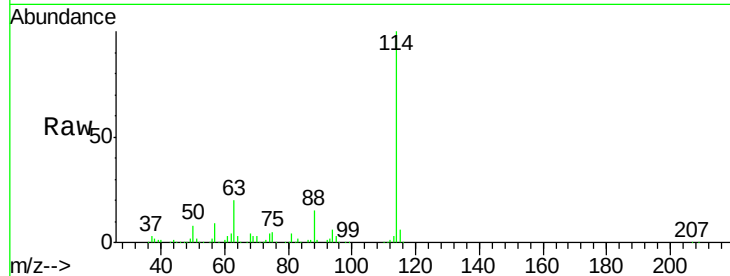




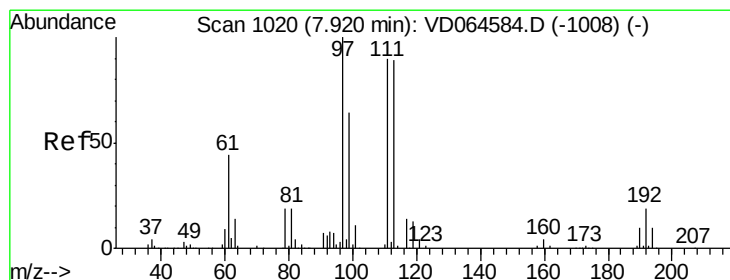
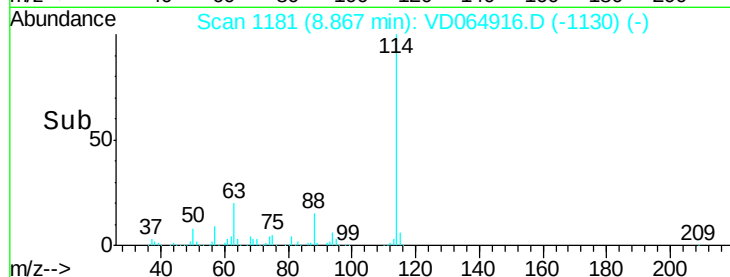
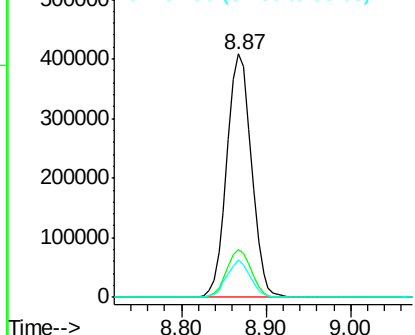
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064916.D  
 Acq: 22 Jan 2020 14:38

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0122SBL01

Tot Ion:114 Resp: 821760  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 38.0  
 88 15.2 0.0 29.2

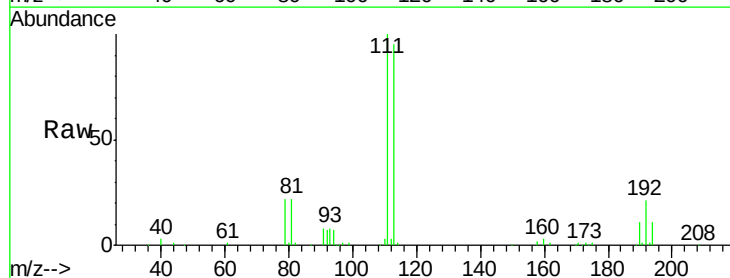


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

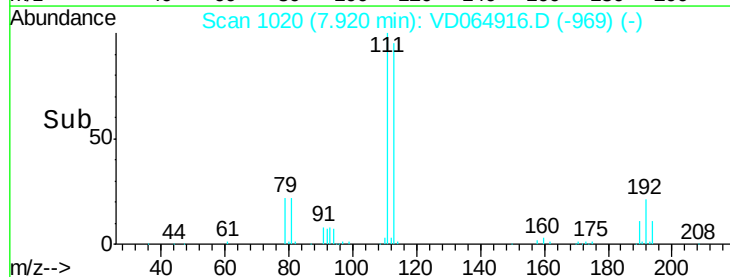
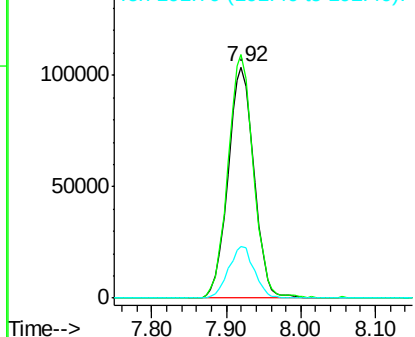


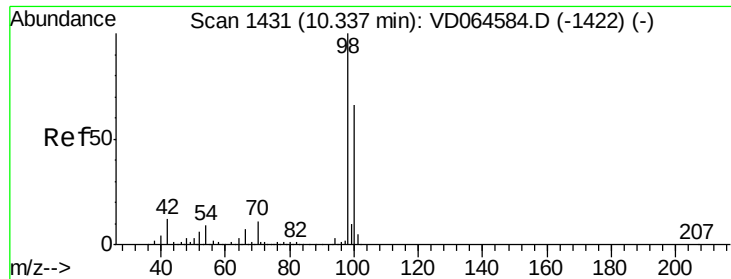
#35  
 Dibromofluoromethane  
 Concen: 49.699 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064916.D  
 Acq: 22 Jan 2020 14:38

Tgt Ion:113 Resp: 250564  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 80.6 121.0  
 192 22.1 17.9 26.9



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

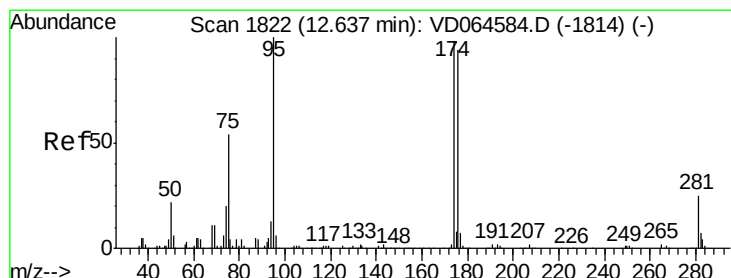
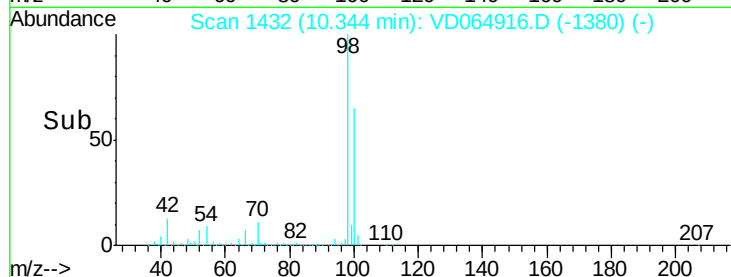
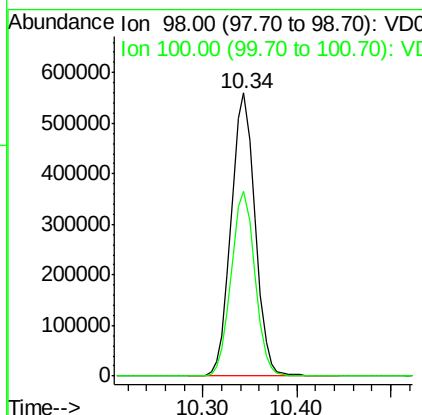
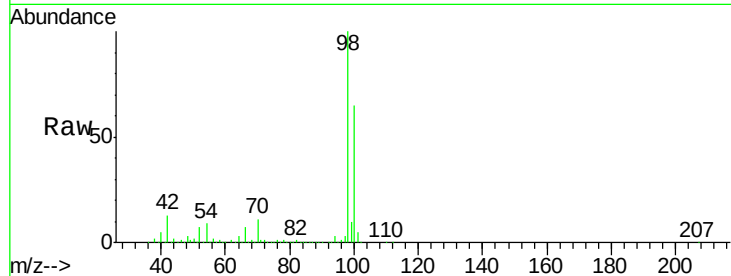




#50  
Toluene-d8  
Concen: 51.490 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.01 min  
Lab File: VD064916.D  
Acq: 22 Jan 2020 14:38

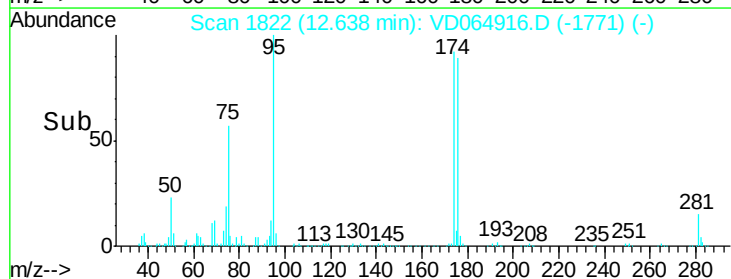
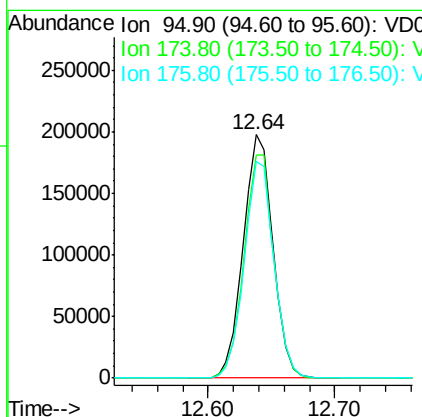
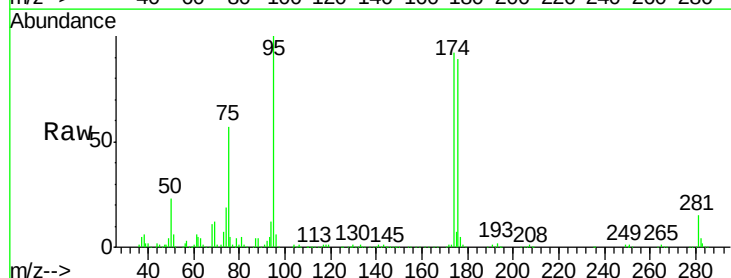
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0122SBL01

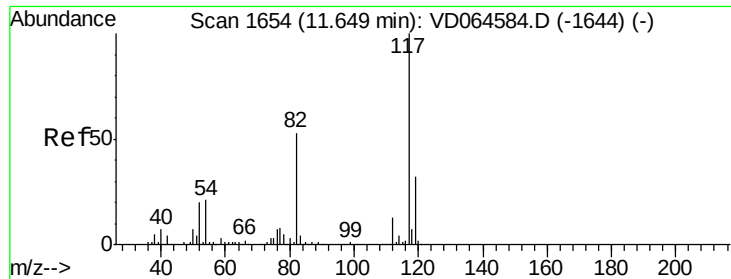
Tot Ion: 98 Resp: 994217  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.7 77.5



#62  
4-Bromofluorobenzene  
Concen: 52.756 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD064916.D  
Acq: 22 Jan 2020 14:38

Tgt Ion: 95 Resp: 322111  
Ion Ratio Lower Upper  
95 100  
174 92.2 0.0 193.2  
176 89.3 0.0 184.2

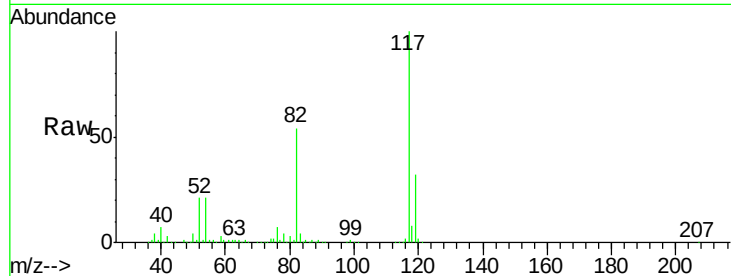




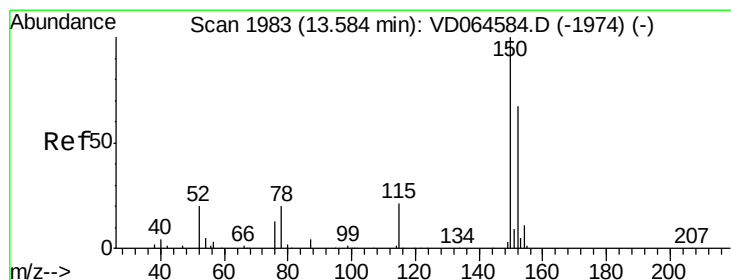
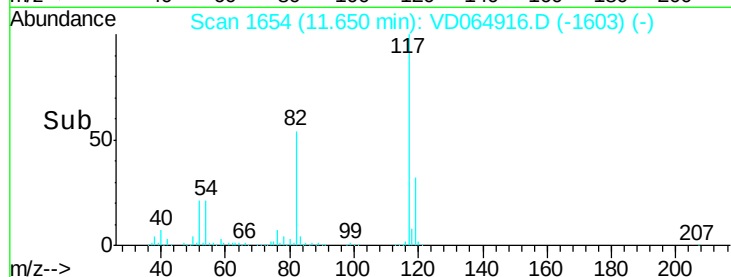
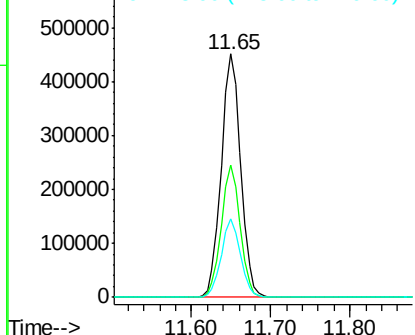
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064916.D  
Acq: 22 Jan 2020 14:38

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0122SBL01

Tot Ion:117 Resp: 766910  
Ion Ratio Lower Upper  
117 100  
82 54.2 42.2 63.4  
119 32.1 26.0 39.0

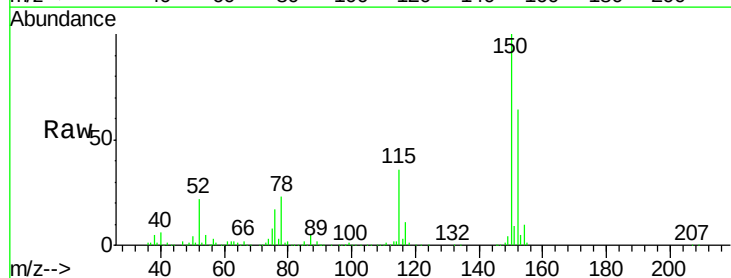


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD064916.D  
Acq: 22 Jan 2020 14:38

Tgt Ion:152 Resp: 361820  
Ion Ratio Lower Upper  
152 100  
115 55.9 27.8 83.4  
150 155.6 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

