

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112619\  
 Data File : VD064379.D  
 Acq On : 26 Nov 2019 12:52  
 Operator : VA/SY  
 Sample : K6021-04  
 Misc : 5.06G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-002-E

Quant Time: Nov 27 06:02:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 2019  
 Response via : Initial Calibration

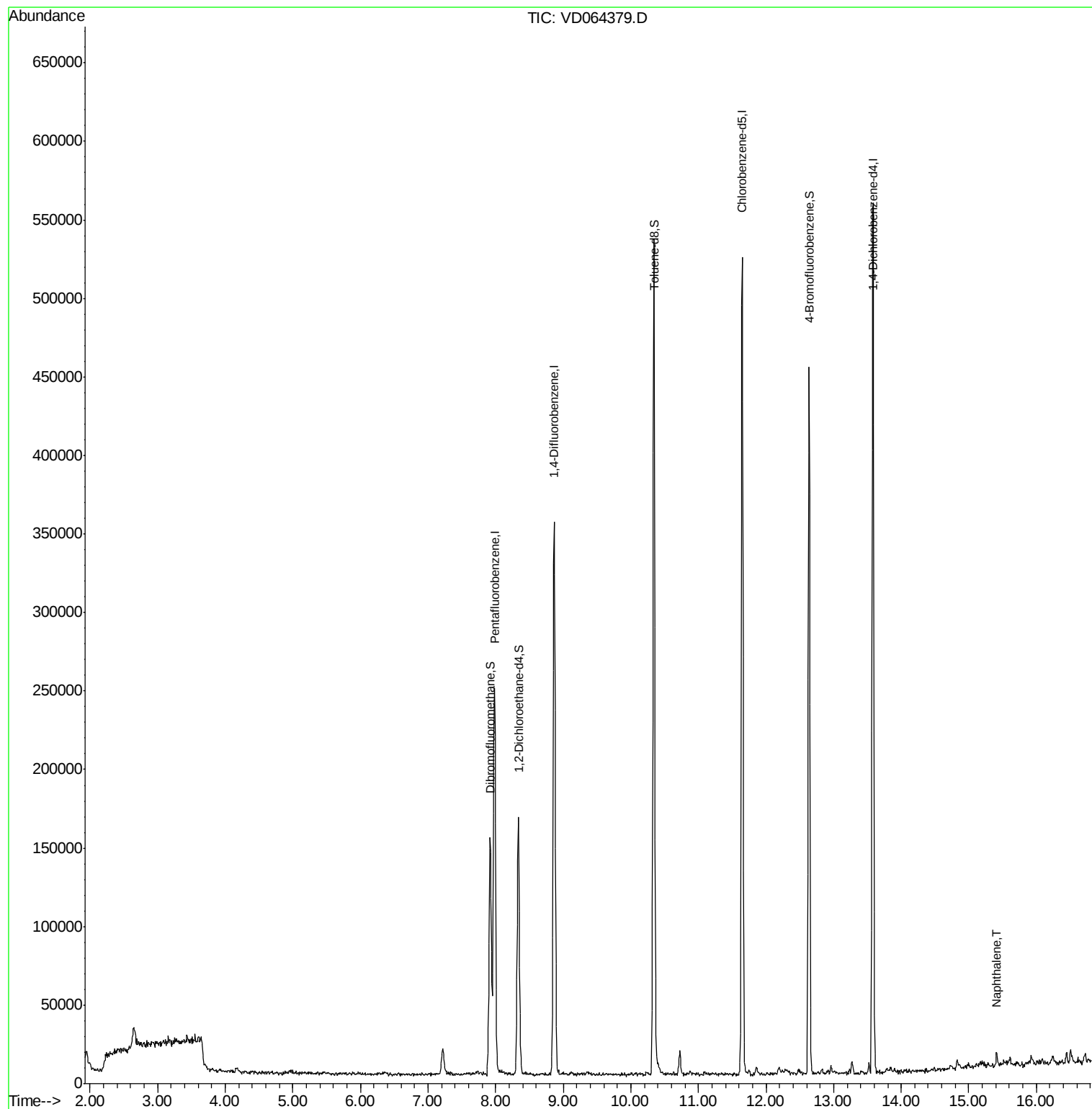
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|---------|-----------|
| 1) Pentafluorobenzene       | 7.98  | 168  | 201307   | 50.00 | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.87  | 114  | 315913   | 50.00 | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.65 | 117  | 303533   | 50.00 | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.58 | 152  | 155092   | 50.00 | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |       |         |           |
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 130782   | 78.99 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 157.98% |           |
| 35) Dibromofluoromethane    | 7.92  | 113  | 108624   | 59.90 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 119.80% |           |
| 50) Toluene-d8              | 10.34 | 98   | 374581   | 54.76 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 109.52% |           |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 135581   | 57.23 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 114.46% |           |
| Target Compounds            |       |      |          |       |         |           |
| 95) Naphthalene             | 15.41 | 128  | 6313     | 1.149 | ug/l #  | Qvalue 95 |

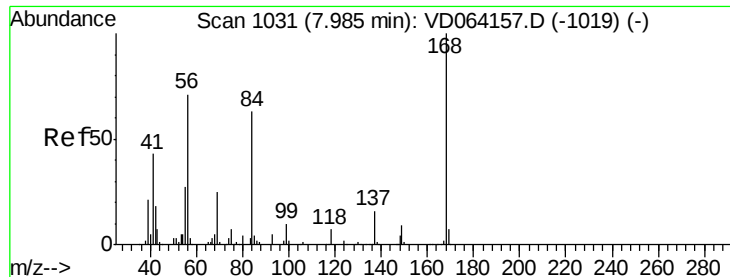
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Nov 12 02:43:24 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: VD064379.D

Acq: 26 Nov 2019 12:52

Instrument :

MSVOA\_D

ClientSampleId :

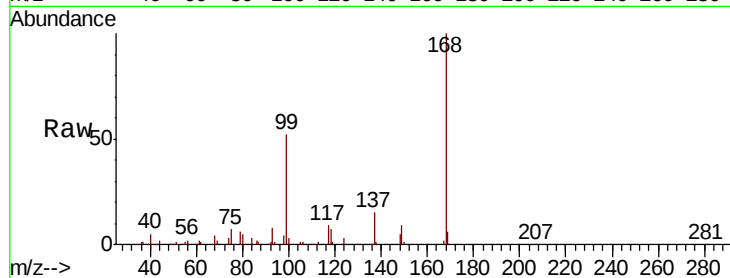
SOIL-002-E

Tot Ion:168 Resp: 201307

Ion Ratio Lower Upper

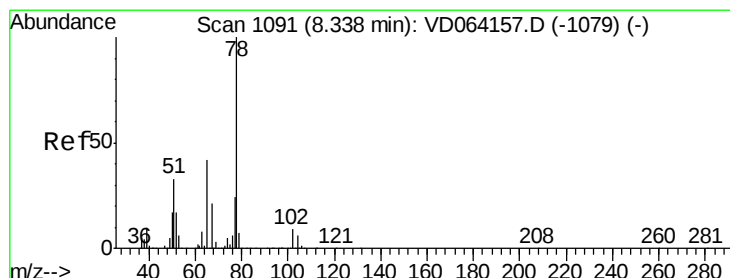
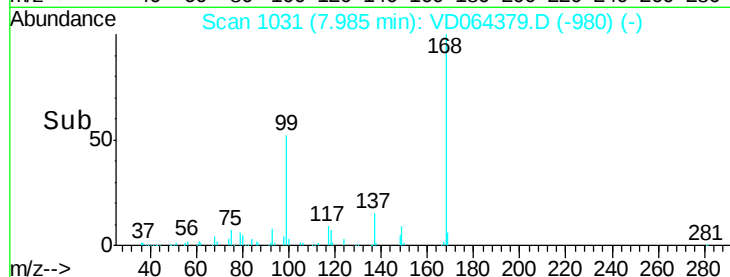
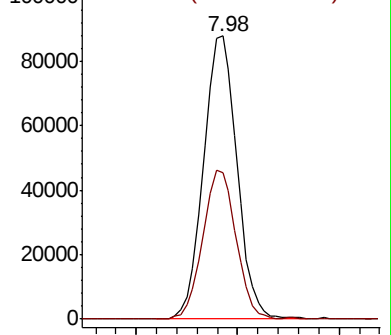
168 100

99 51.9 41.6 62.4



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: 78.992 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD064379.D

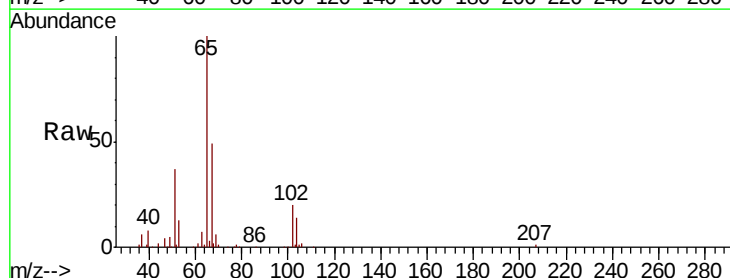
Acq: 26 Nov 2019 12:52

Tgt Ion: 65 Resp: 130782

Ion Ratio Lower Upper

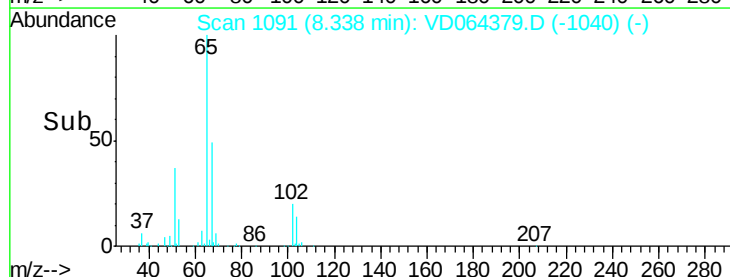
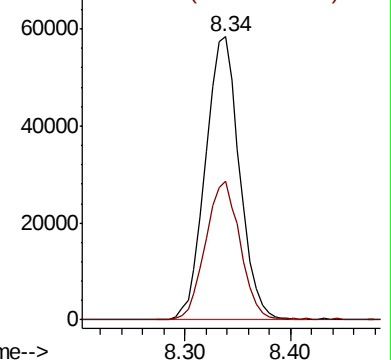
65 100

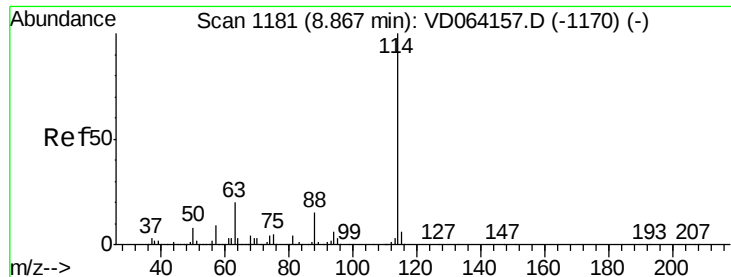
67 49.4 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

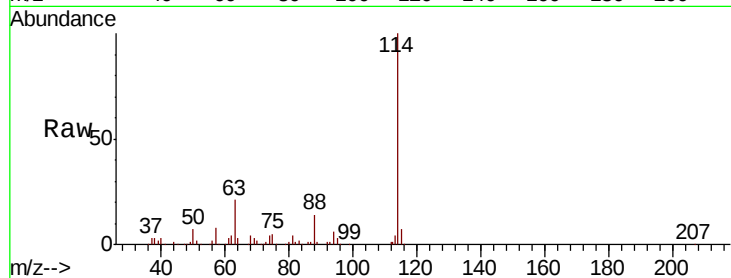




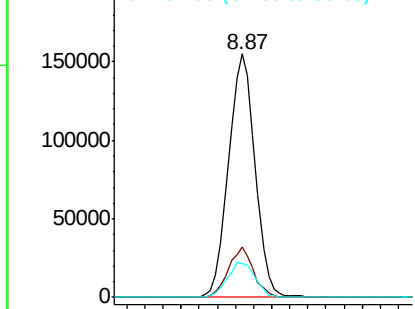
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064379.D  
 Acq: 26 Nov 2019 12:52

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-002-E

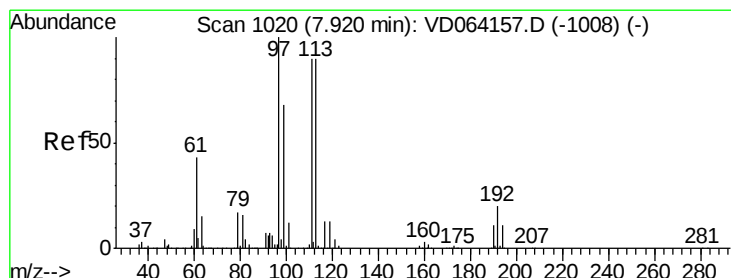
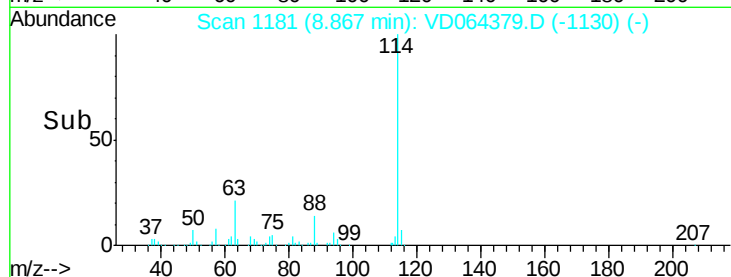
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.8  | 0.0   | 40.0  |
| 88      | 14.1  | 0.0   | 30.2  |



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

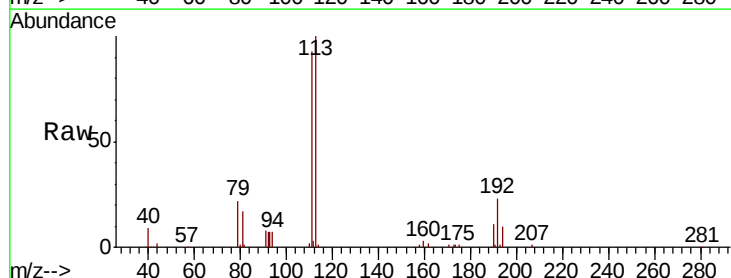


Time-->

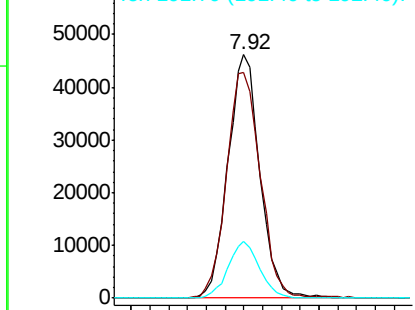


#35  
 Dibromofluoromethane  
 Concen: 59.901 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064379.D  
 Acq: 26 Nov 2019 12:52

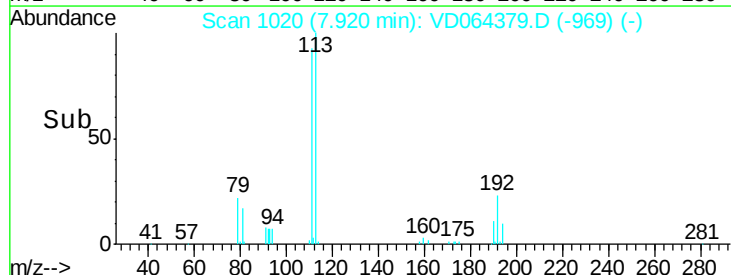
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 98.7  | 81.5  | 122.3 |
| 192     | 22.7  | 18.8  | 28.2  |



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



Time-->





#50

Toluene-d8

Concen: 54.756 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064379.D

Acq: 26 Nov 2019 12:52

Instrument :

MSVOA\_D

ClientSampleId :

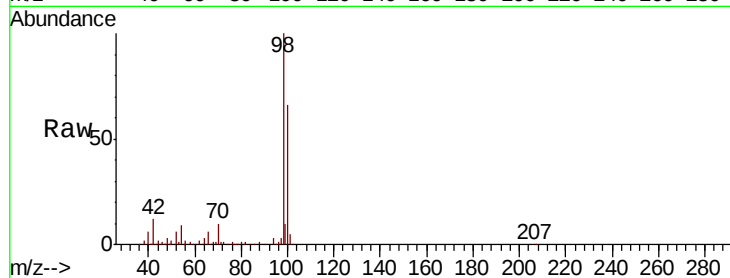
SOIL-002-E

Tot Ion: 98 Resp: 374581

Ion Ratio Lower Upper

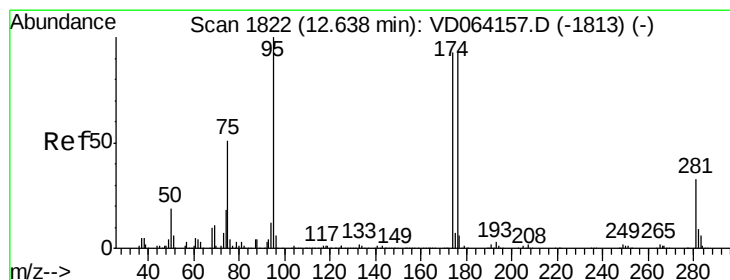
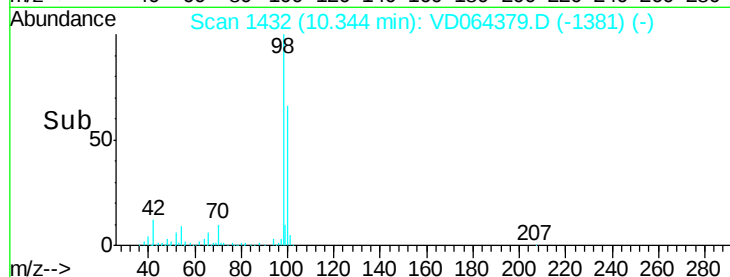
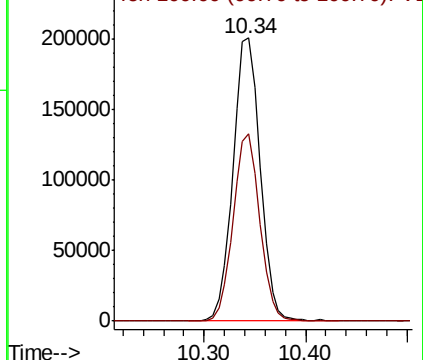
98 100

100 64.9 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 57.230 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064379.D

Acq: 26 Nov 2019 12:52

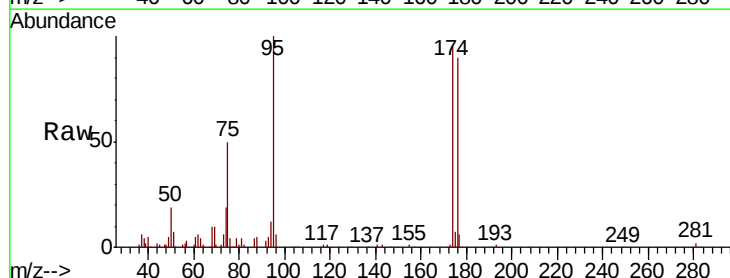
Tgt Ion: 95 Resp: 135581

Ion Ratio Lower Upper

95 100

174 95.2 0.0 183.6

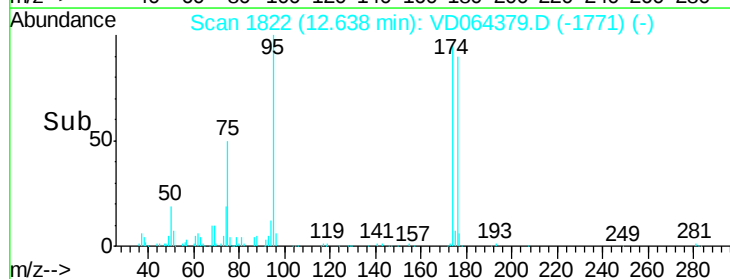
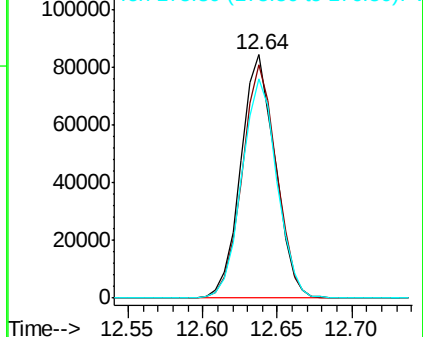
176 91.2 0.0 180.2

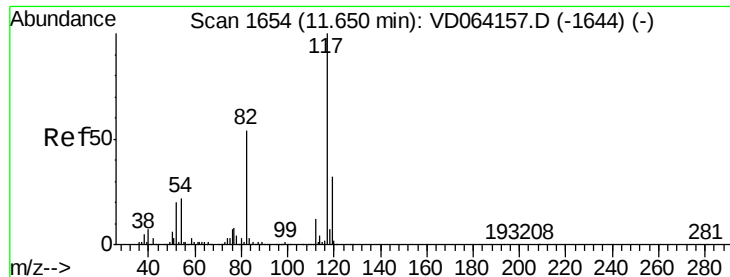


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

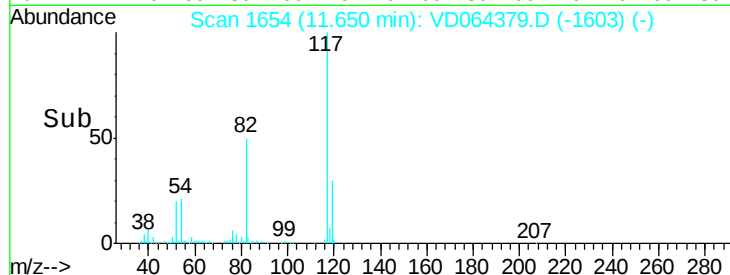
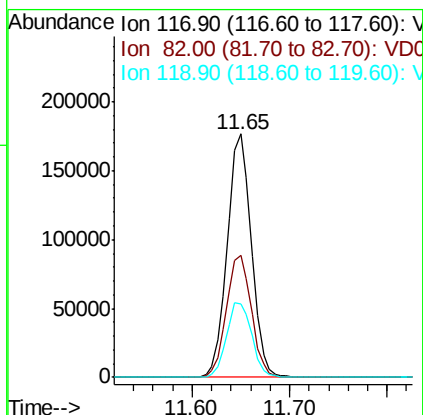
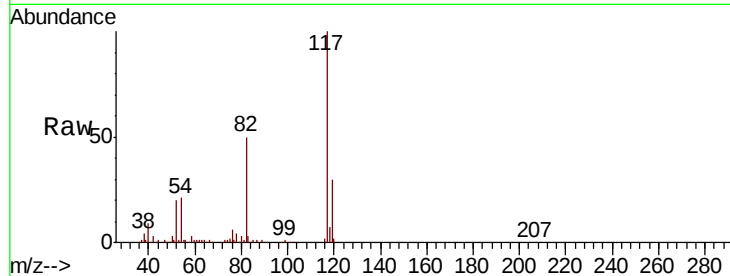




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064379.D  
Acq: 26 Nov 2019 12:52

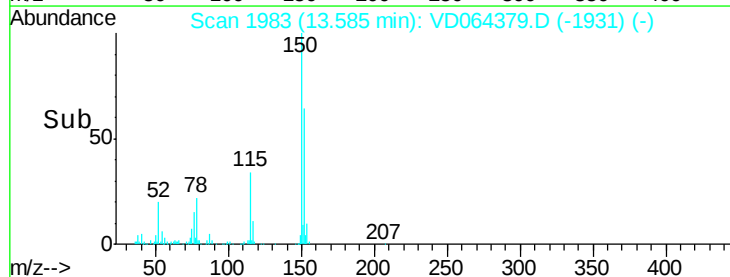
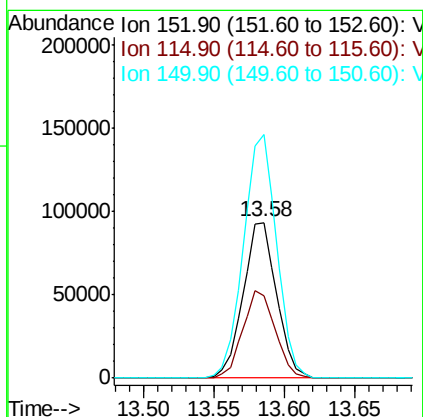
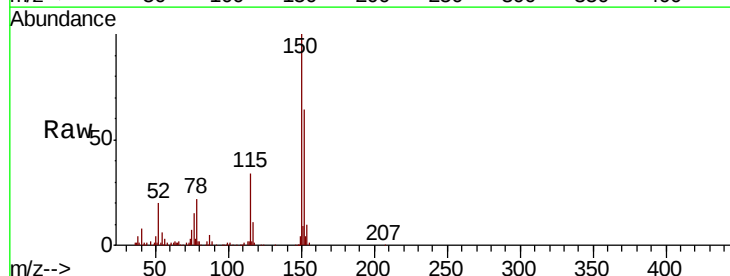
Instrument :  
MSVOA\_D  
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SOIL-002-E

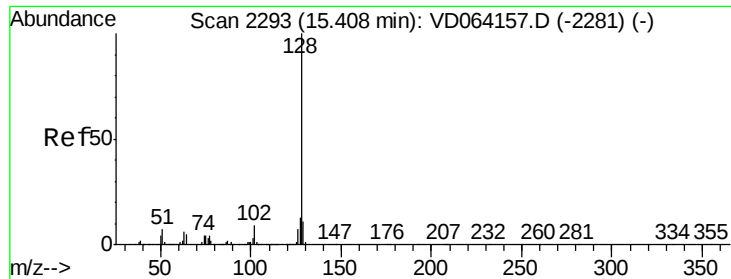
Tot Ion:117 Resp: 303533  
Ion Ratio Lower Upper  
117 100  
82 50.0 42.8 64.2  
119 30.1 25.6 38.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD064379.D  
Acq: 26 Nov 2019 12:52

Tgt Ion:152 Resp: 155092  
Ion Ratio Lower Upper  
152 100  
115 54.7 27.4 82.2  
150 155.6 0.0 351.6

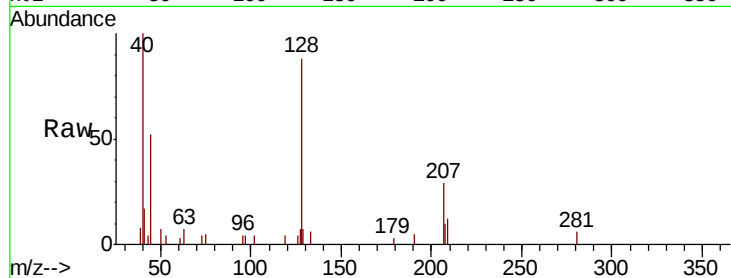




#95  
 Naphthalene  
 Concen: 1.149 ug/l  
 RT: 15.41 min Scan# 2294  
 Delta R.T. 0.01 min  
 Lab File: VD064379.D  
 Acq: 26 Nov 2019 12:52

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SOIL-002-E

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 16.2  | 10.5  | 15.7# |
| 129     | 11.3  | 8.6   | 13.0  |



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

