

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041720\  
 Data File : VD065660.D  
 Acq On : 17 Apr 2020 22:39  
 Operator : VA/SY  
 Sample : L2331-01  
 Misc : 6.65G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-22-(1.5-2.5)

Quant Time: Apr 20 08:37:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 15 19:43:39 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 231276   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 375645   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 348057   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 188464   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.34   | 65  | 121566   | 61.79 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 123.58% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 126110   | 53.94 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.88% |      |
| 50) Toluene-d8              | 10.34  | 98  | 456200   | 52.93 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.86% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 135329   | 47.19 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.38%  |      |

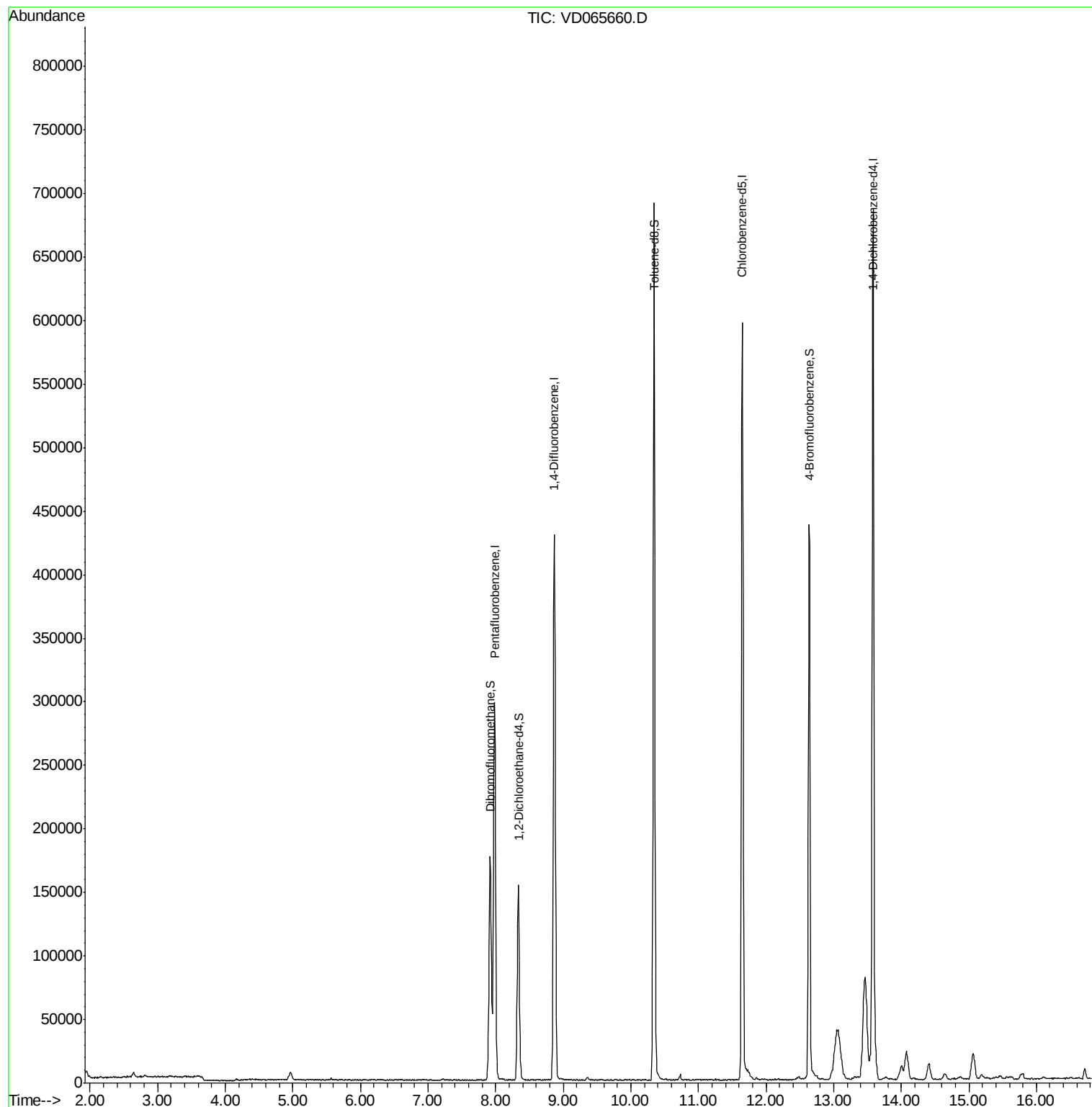
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

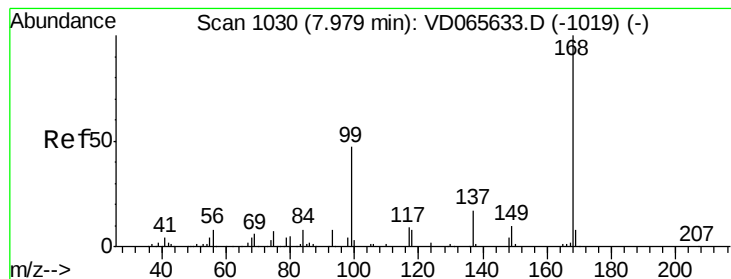
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Apr 15 19:43:39 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD065660.D

Acq: 17 Apr 2020 22:39

Instrument :

MSVOA\_D

ClientSampleId :

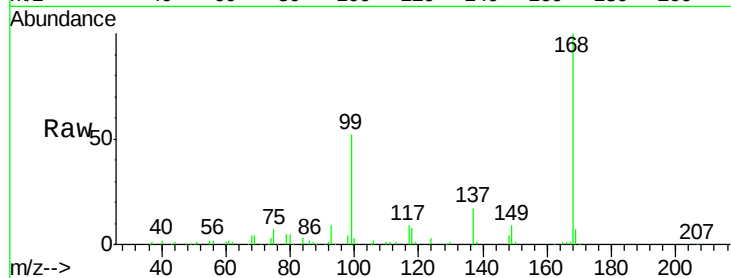
TP-22-(1.5-2.5)

Tot Ion:168 Resp: 231276

Ion Ratio Lower Upper

168 100

99 51.5 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

100000

80000

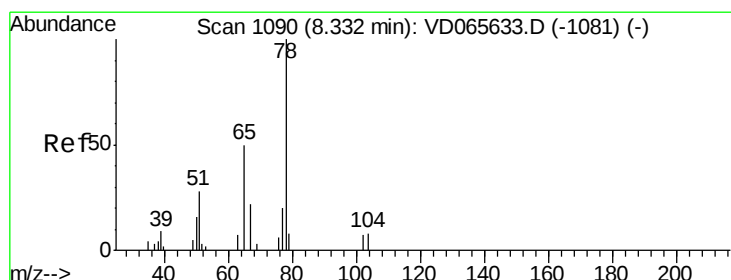
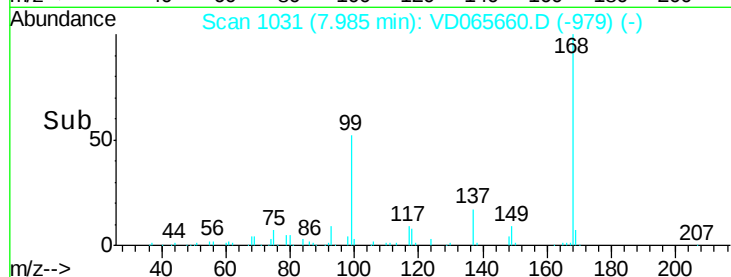
60000

40000

20000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 61.789 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD065660.D

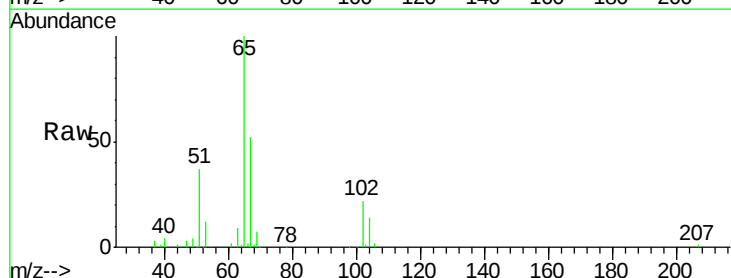
Acq: 17 Apr 2020 22:39

Tgt Ion: 65 Resp: 121566

Ion Ratio Lower Upper

65 100

67 52.2 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

60000

50000

40000

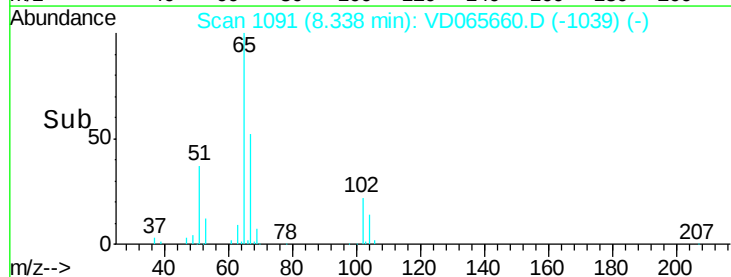
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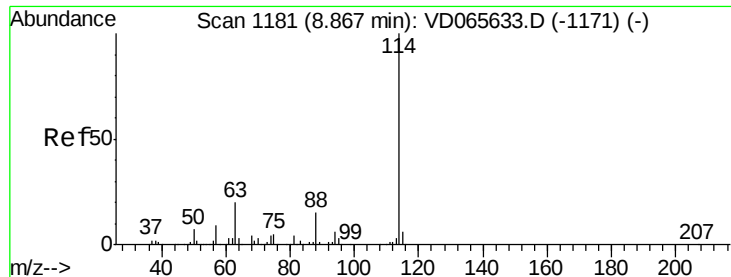
20000

10000

0

Time-->

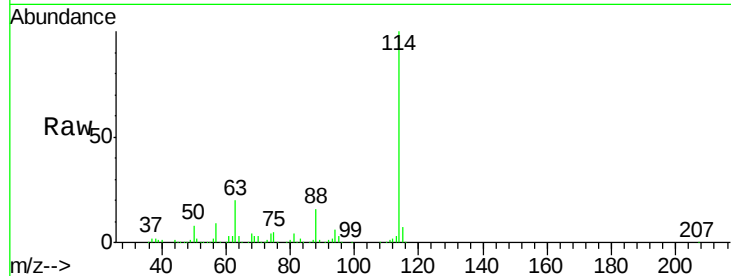




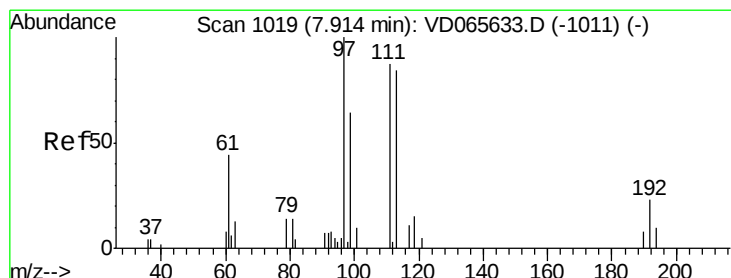
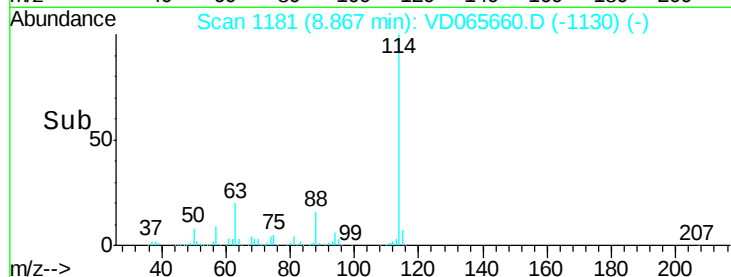
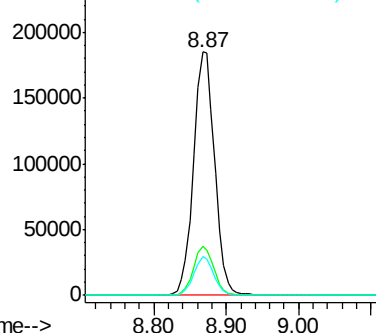
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD065660.D  
 Acq: 17 Apr 2020 22:39

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-22-(1.5-2.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.0  | 0.0   | 40.8  |
| 88      | 16.0  | 0.0   | 31.6  |

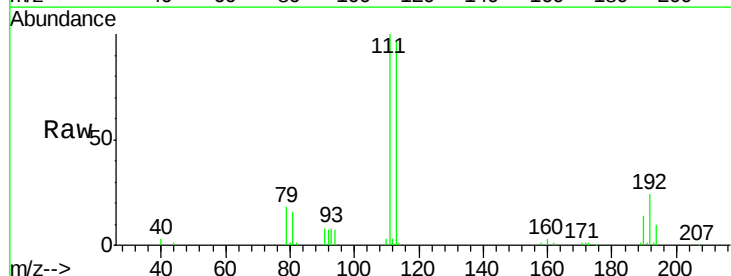


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

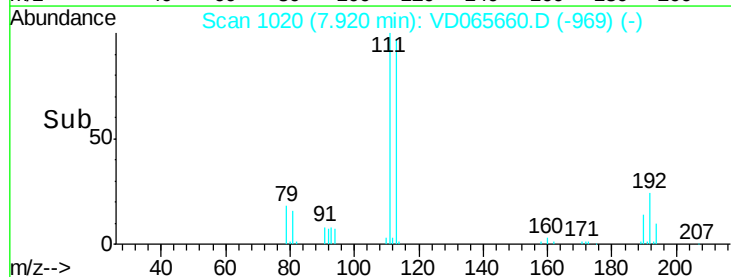
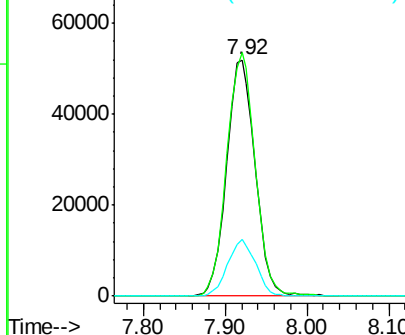


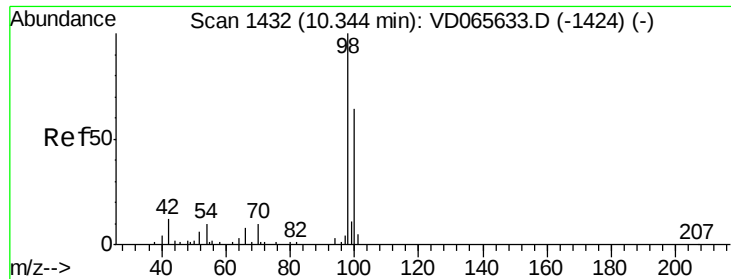
#35  
 Dibromofluoromethane  
 Concen: 53.941 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD065660.D  
 Acq: 17 Apr 2020 22:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 81.9  | 122.9 |
| 192     | 23.6  | 18.9  | 28.3  |



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

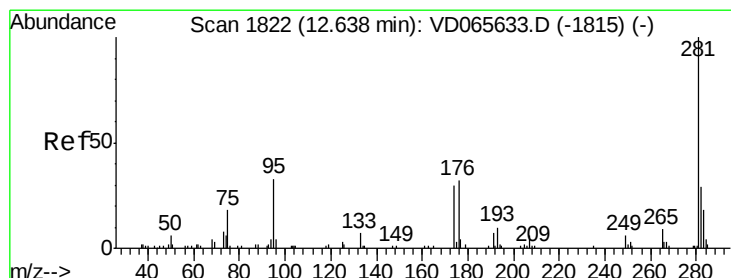
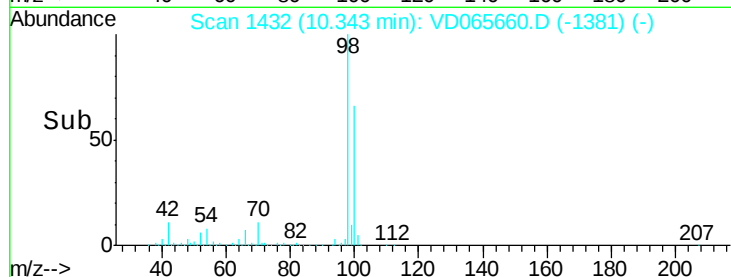
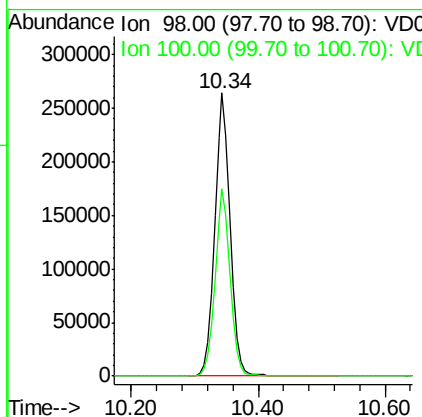
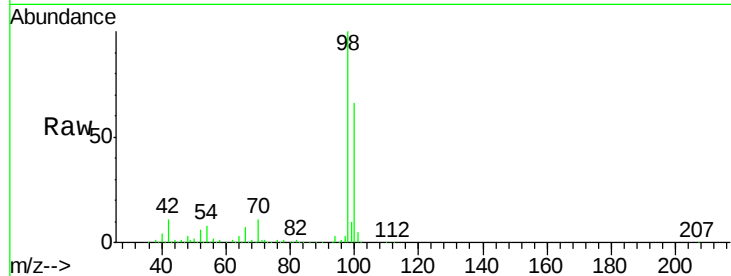




#50  
Toluene-d8  
Concen: 52.933 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD065660.D  
Acq: 17 Apr 2020 22:39

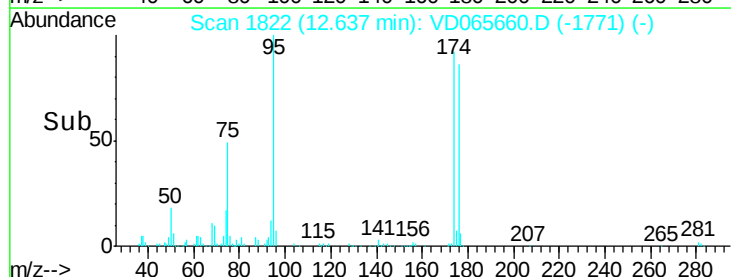
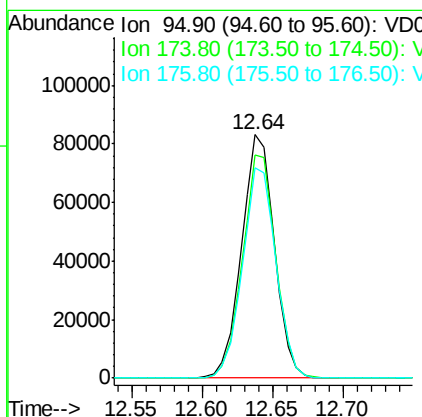
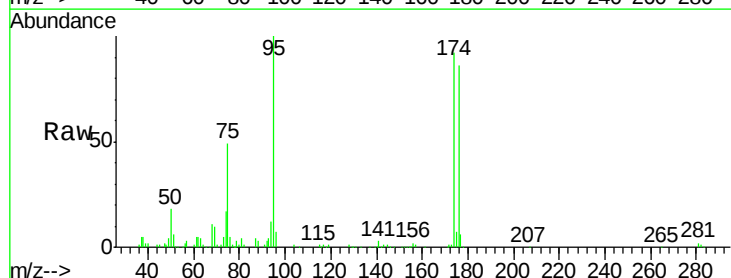
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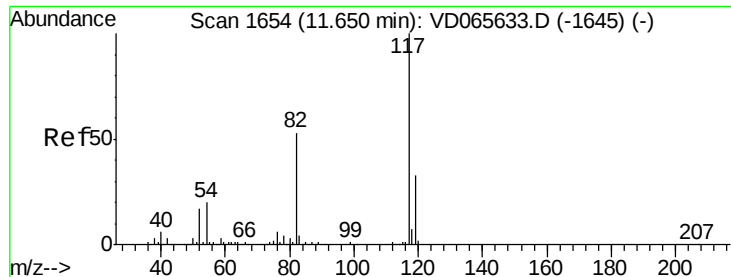
Tot Ion: 98 Resp: 456200  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 47.190 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD065660.D  
Acq: 17 Apr 2020 22:39

Tgt Ion: 95 Resp: 135329  
Ion Ratio Lower Upper  
95 100  
174 93.2 0.0 183.8  
176 88.4 0.0 181.4

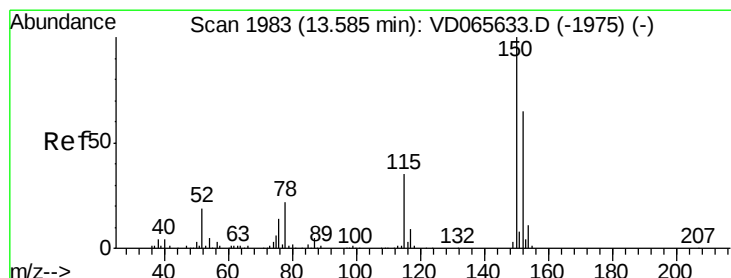
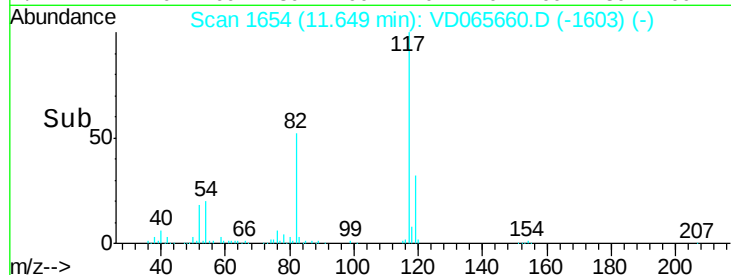
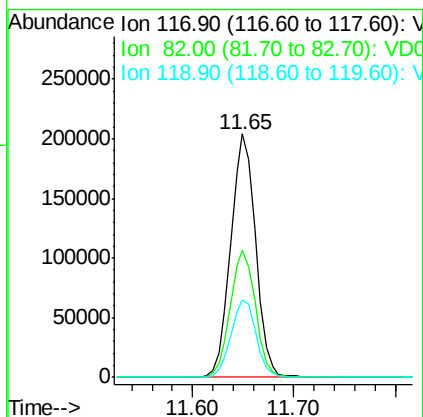
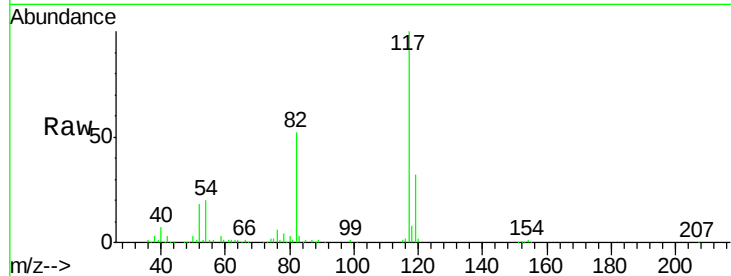




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD065660.D  
Acq: 17 Apr 2020 22:39

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-22-(1.5-2.5)

Tot Ion:117 Resp: 348057  
Ion Ratio Lower Upper  
117 100  
82 52.4 43.2 64.8  
119 31.8 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VD065660.D  
Acq: 17 Apr 2020 22:39

Tgt Ion:152 Resp: 188464  
Ion Ratio Lower Upper  
152 100  
115 57.3 27.6 82.7  
150 150.6 0.0 346.0

