

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120220\  
 Data File : VD067851.D  
 Acq On : 02 Dec 2020 22:19  
 Operator : VA/SY  
 Sample : L4911-04  
 Misc : 6.77G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SK-12-1-SPD

Quant Time: Dec 03 02:48:18 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  | 237366   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 338307   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 301008   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 139486   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65    | 123592   | 48.50    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 97.00% |
| 35) Dibromofluoromethane  | 7.91   | 113   | 104126   | 46.00    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 92.00% |
| 50) Toluene-d8            | 10.34  | 98    | 382996   | 47.00    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 94.00% |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 121069   | 42.97    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 85.94% |

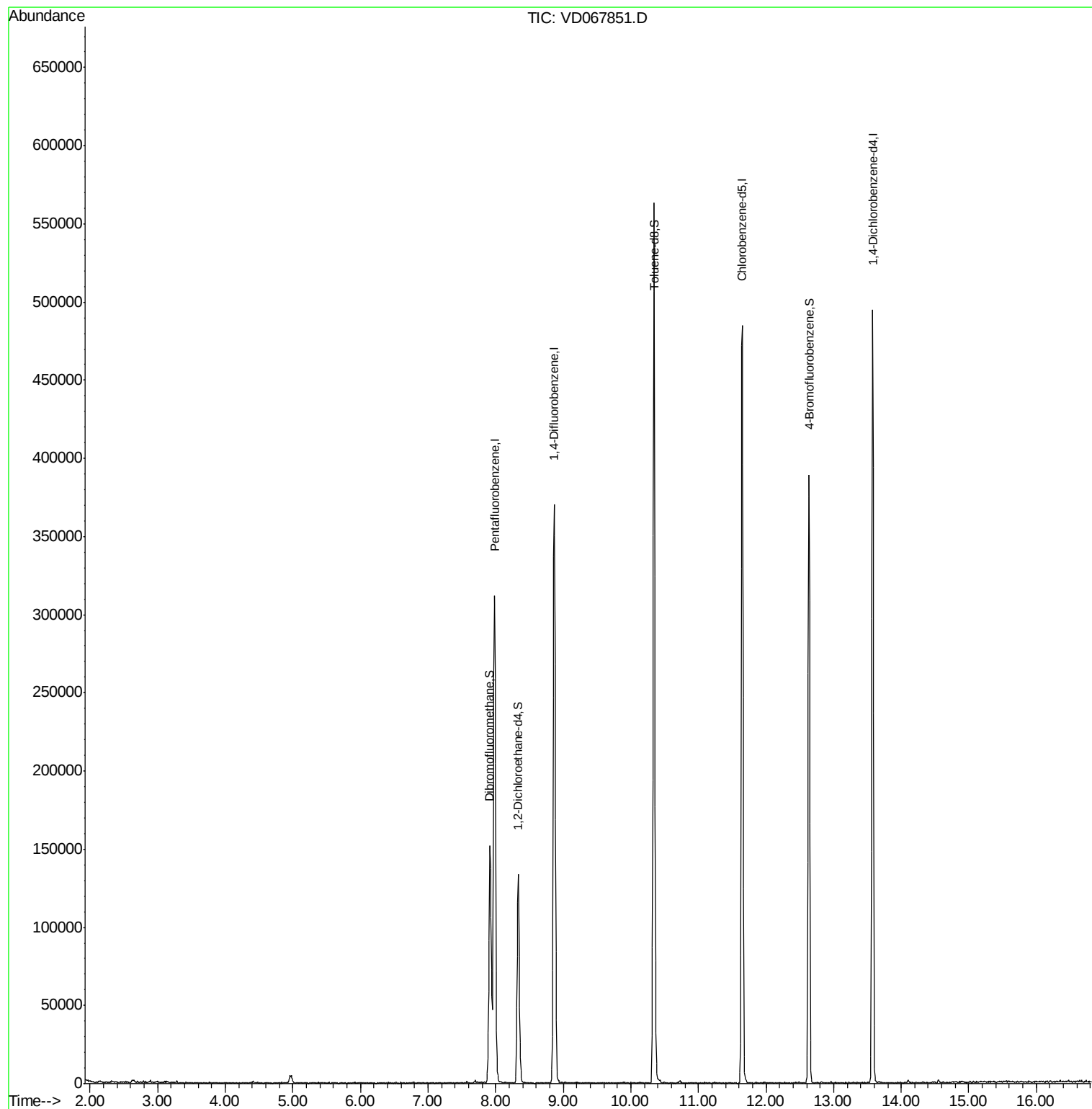
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

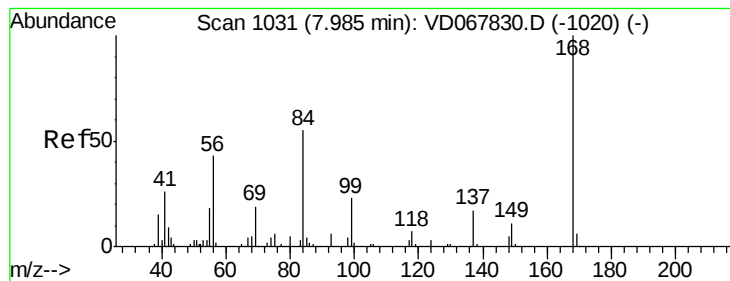
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA\_D

ClientSampleId :

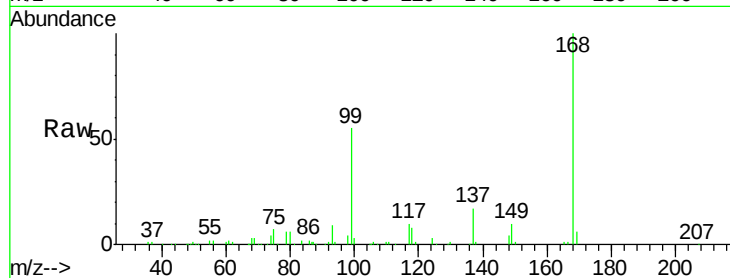
SK-12-1-SPD

Tot Ion:168 Resp: 237366

Ion Ratio Lower Upper

168 100

99 54.6 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

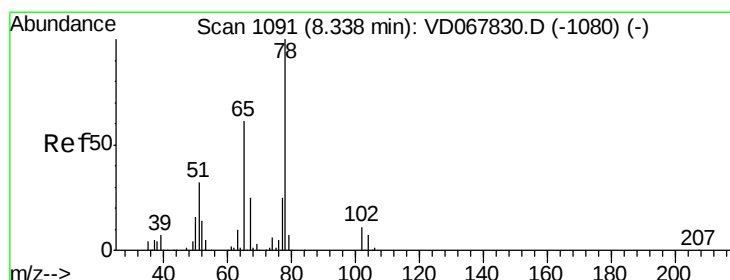
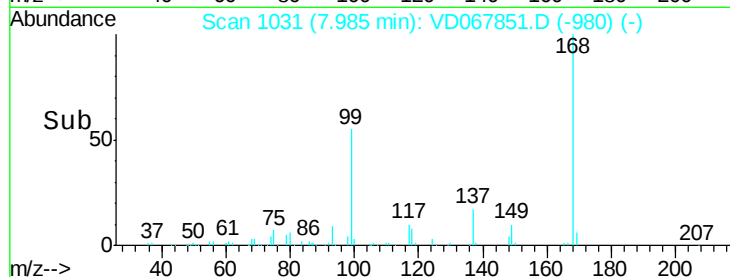
60000

40000

20000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.501 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD067851.D

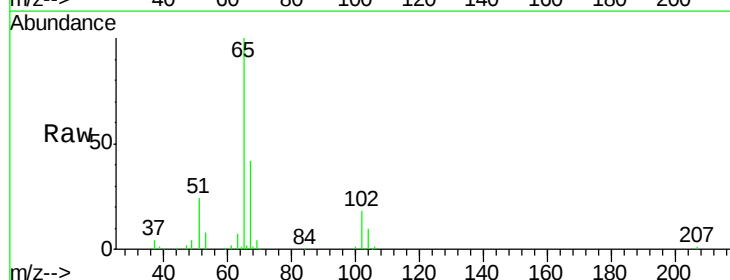
Acq: 02 Dec 2020 22:19

Tgt Ion: 65 Resp: 123592

Ion Ratio Lower Upper

65 100

67 45.8 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

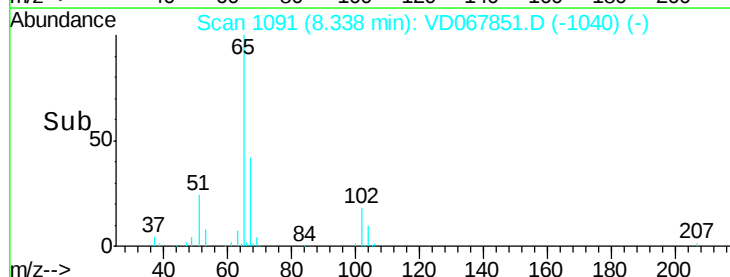
30000

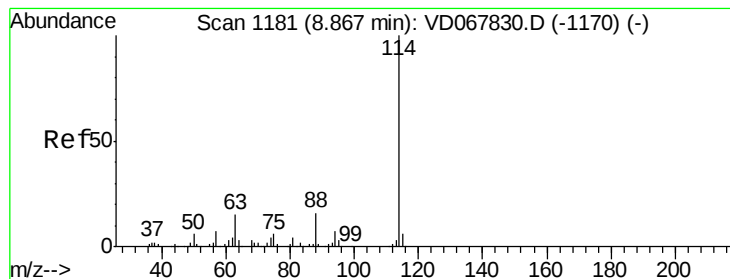
20000

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: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA\_D

ClientSampleId :

SK-12-1-SPD

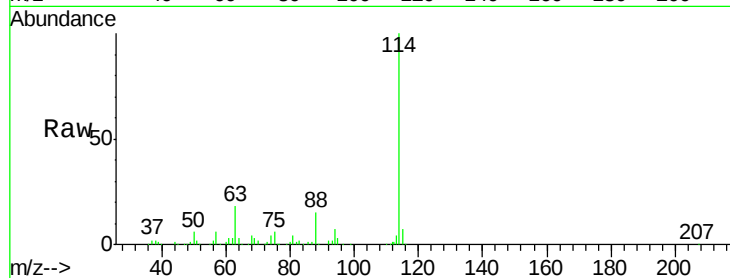
Tot Ion:114 Resp: 338307

Ion Ratio Lower Upper

114 100

63 18.3 0.0 30.8

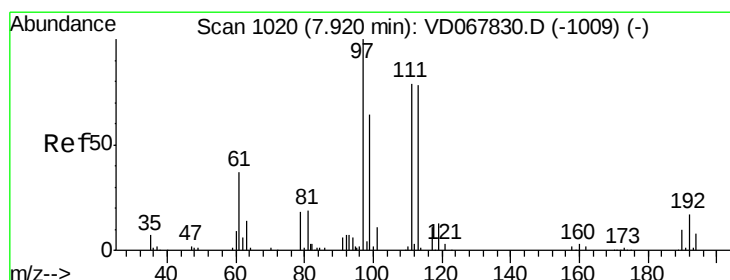
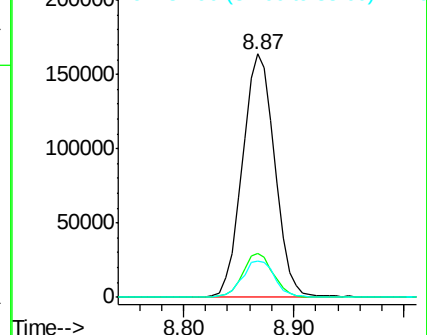
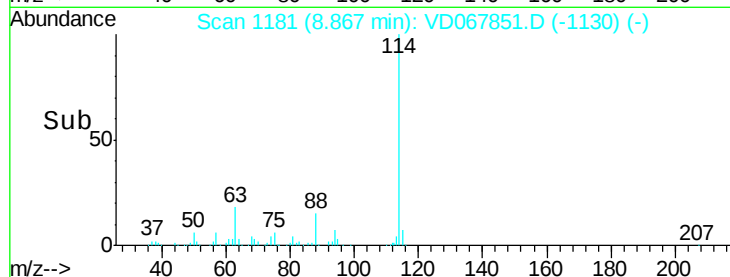
88 15.1 0.0 31.8



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: 45.997 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

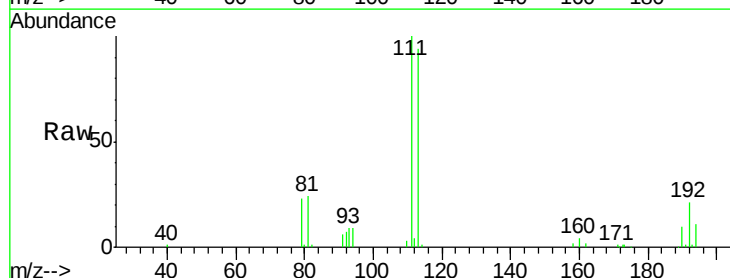
Tgt Ion:113 Resp: 104126

Ion Ratio Lower Upper

113 100

111 102.8 81.2 121.8

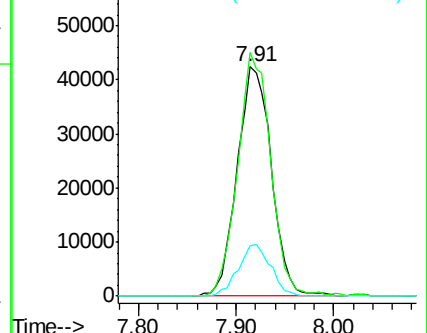
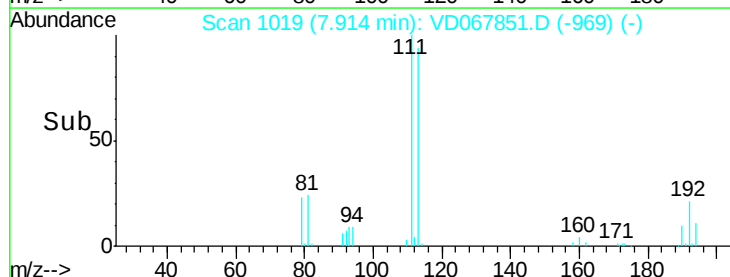
192 21.2 16.8 25.2

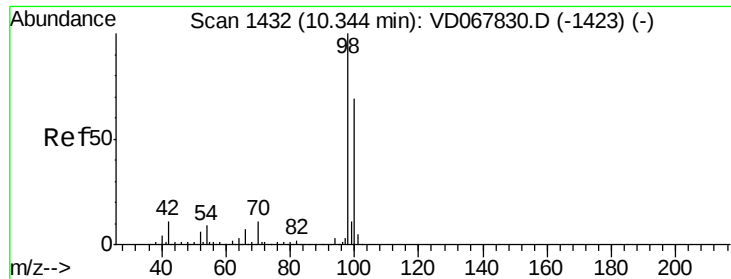


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 46.998 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA\_D

ClientSampleId :

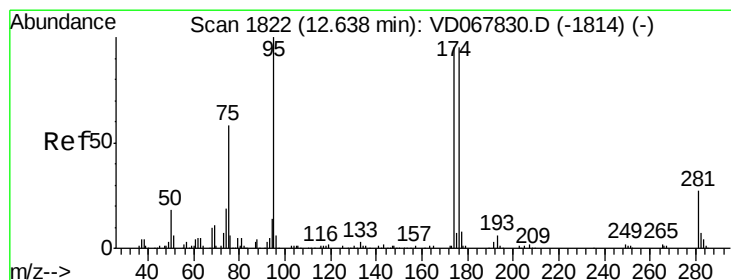
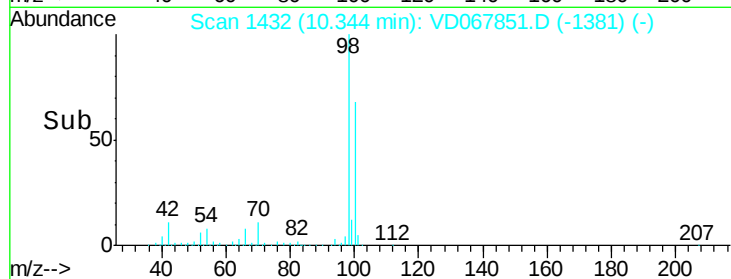
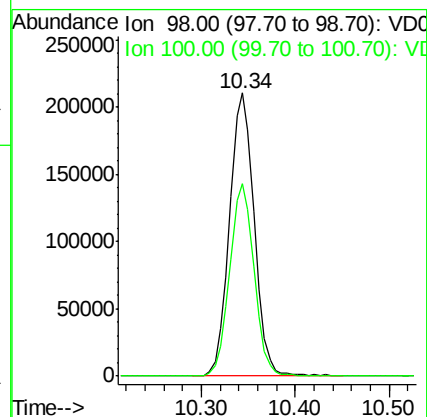
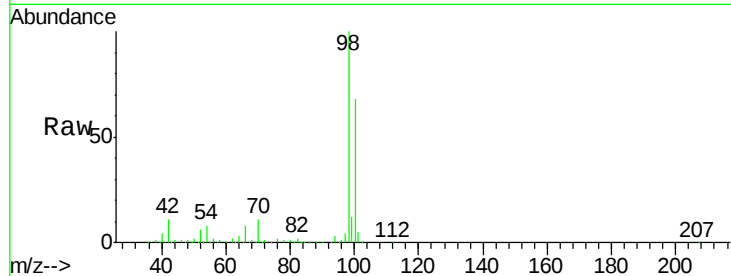
SK-12-1-SPD

Tot Ion: 98 Resp: 382996

Ion Ratio Lower Upper

98 100

100 67.2 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 42.972 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

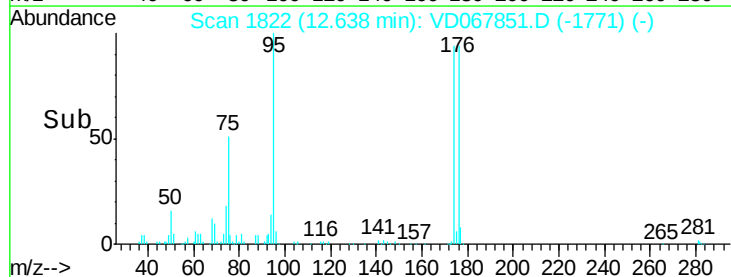
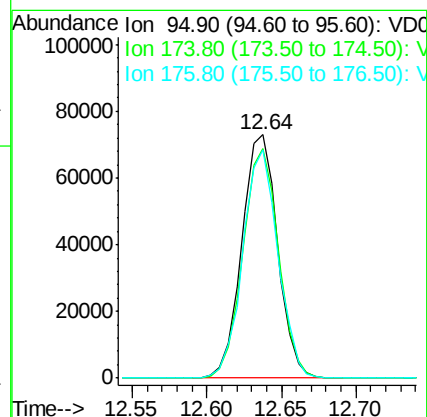
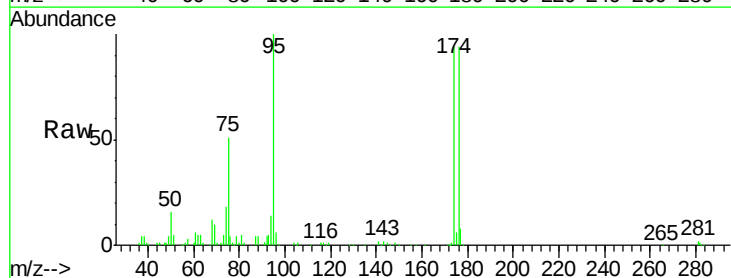
Tgt Ion: 95 Resp: 121069

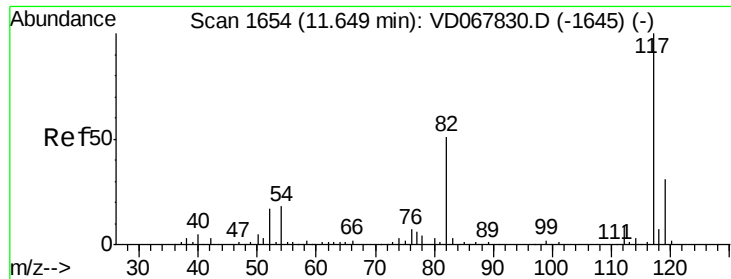
Ion Ratio Lower Upper

95 100

174 94.0 0.0 186.0

176 92.2 0.0 184.2

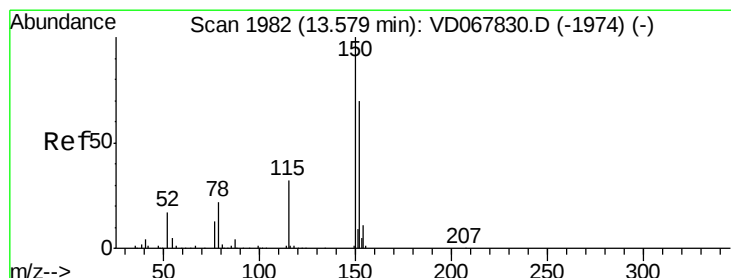
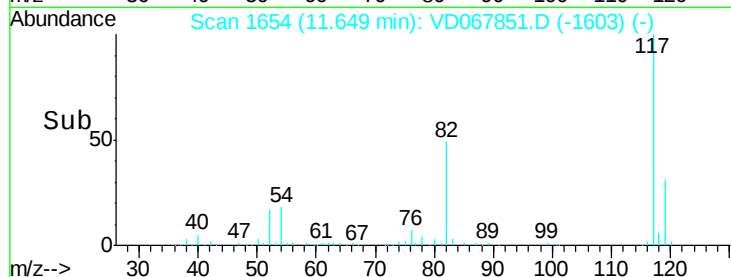
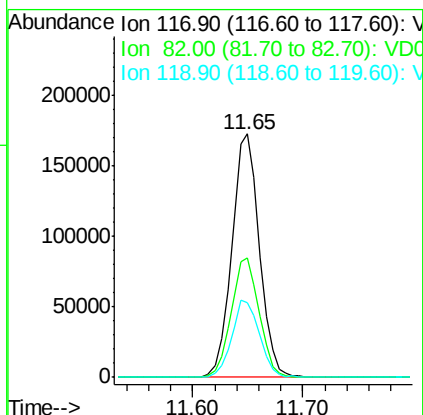
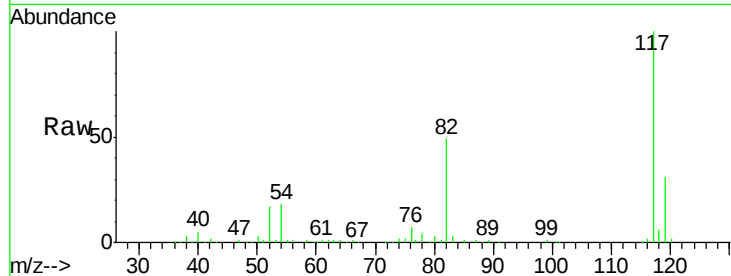




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067851.D  
Acq: 02 Dec 2020 22:19

Instrument :  
MSVOA\_D  
ClientSampleId :  
SK-12-1-SPD

Tot Ion:117 Resp: 301008  
Ion Ratio Lower Upper  
117 100  
82 49.3 40.6 60.8  
119 30.6 25.1 37.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067851.D  
Acq: 02 Dec 2020 22:19

Tgt Ion:152 Resp: 139486  
Ion Ratio Lower Upper  
152 100  
115 58.5 29.1 87.4  
150 155.2 0.0 339.0

