

Data File : VD067768.D  
Acq On : 24 Nov 2020 14:47  
Operator : VA/SY  
Sample : L4842-01  
Misc : 5.10G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
11620

Quant Time: Nov 25 02:04:55 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112320S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 24 00:51:35 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 233884   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 383339   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 422300   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 230967   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |                |     |            |         |      |      |
|---------------------------|----------------|-----|------------|---------|------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33           | 65  | 117055     | 51.47   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 50 - 163 |     | Recovery = | 102.94% |      |      |
| 35) Dibromofluoromethane  | 7.92           | 113 | 118564     | 48.60   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 54 - 147 |     | Recovery = | 97.20%  |      |      |
| 50) Toluene-d8            | 10.34          | 98  | 454902     | 51.00   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 49 - 140 |     | Recovery = | 102.00% |      |      |
| 62) 4-Bromofluorobenzene  | 12.64          | 95  | 197155     | 64.67   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 25 - 144 |     | Recovery = | 129.34% |      |      |

#### Target Compounds

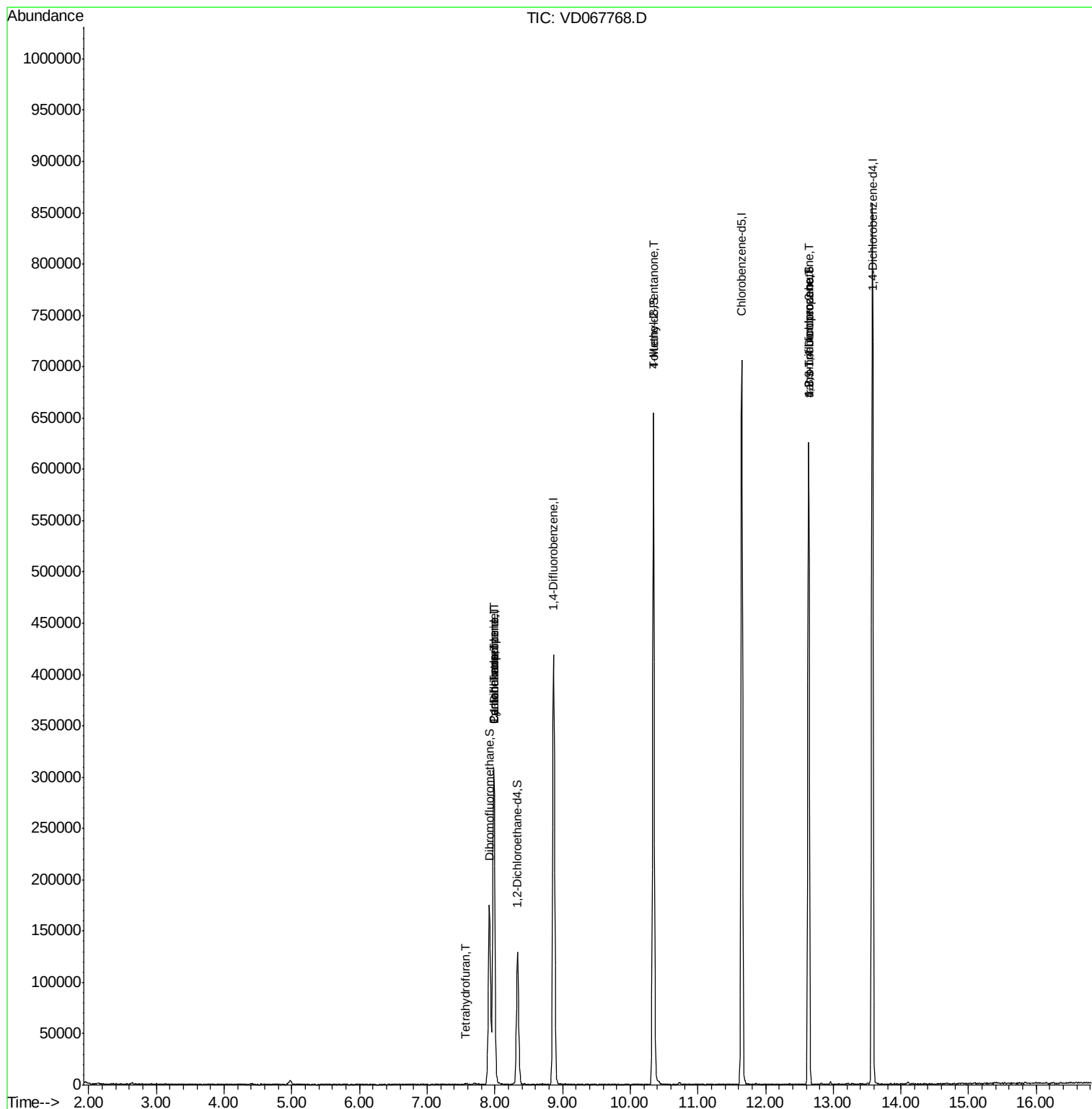
|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 20) Methylene Chloride         | 4.98  | 84  | 3217   | Below Cal | #      | 61     |
| 29) Tetrahydrofuran            | 7.57  | 42  | 806    | 4.300     | ug/l # | 64     |
| 31) Cyclohexane                | 7.98  | 56  | 4724   | 1.717     | ug/l # | 22     |
| 36) 1,1-Dichloropropene        | 7.99  | 75  | 15881  | 4.828     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.98  | 117 | 24170  | 5.069     | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.35 | 43  | 1861   | 2.239     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75  | 105594 | 65.597    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75  | 105594 | 153.427   | ug/l # | 11     |

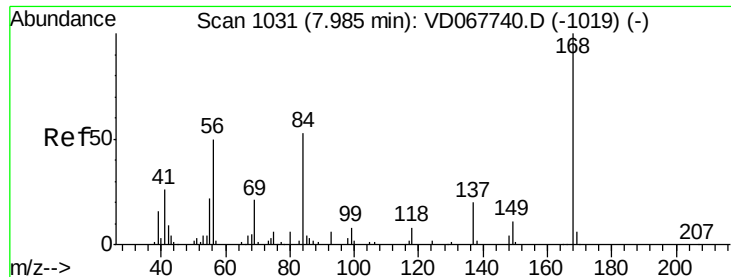
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067768.D

Acq: 24 Nov 2020 14:47

Instrument :

MSVOA\_D

ClientSampleId :

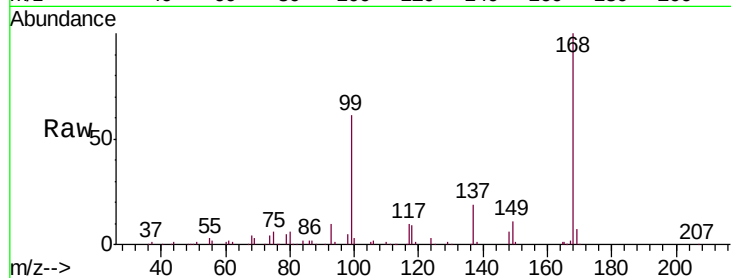
11620

Tgt Ion:168 Resp: 233884

Ion Ratio Lower Upper

168 100

99 60.5 43.8 65.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

100000

80000

60000

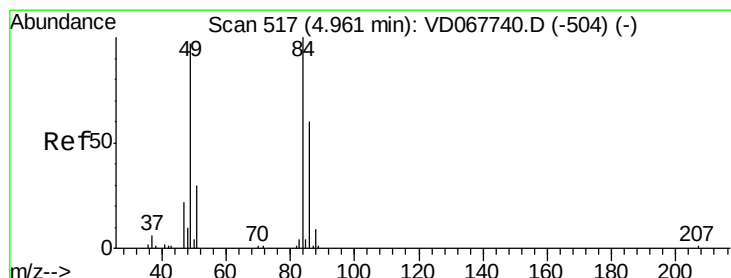
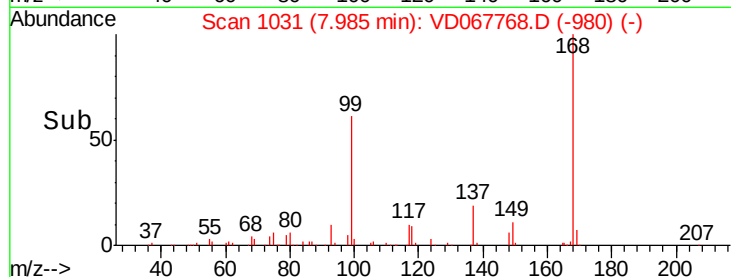
40000

20000

0

Time-->

7.90 8.00 8.10



#20

Methylene Chloride

Concen: Below Cal

RT: 4.98 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD067768.D

Acq: 24 Nov 2020 14:47

Tgt Ion: 84 Resp: 3217

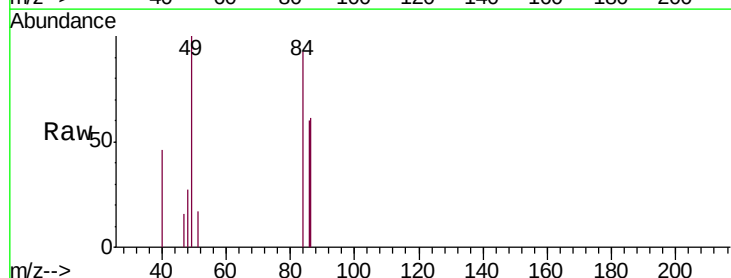
Ion Ratio Lower Upper

84 100

49 107.0 77.4 116.2

51 17.7 24.1 36.1#

86 130.3 48.2 72.2#



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

2000

1500

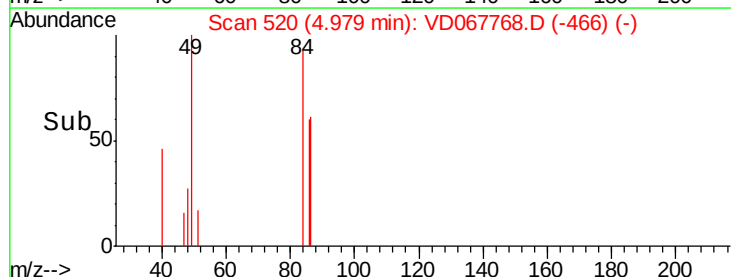
1000

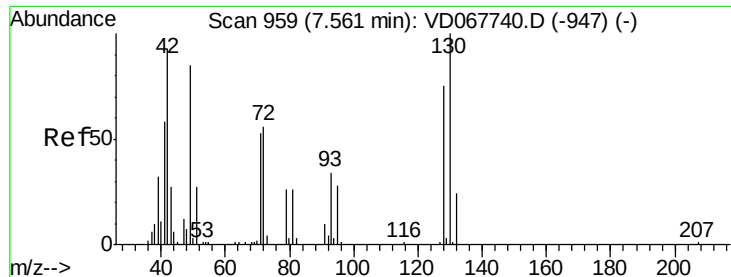
500

0

Time-->

4.90 4.95 5.00

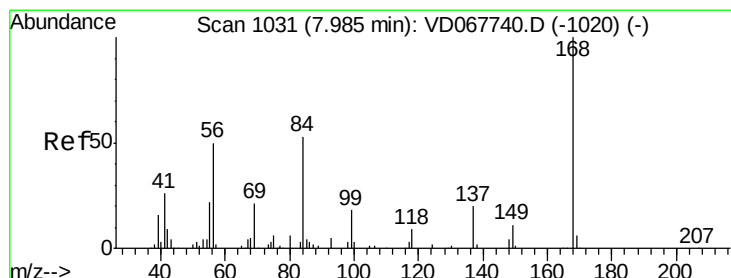
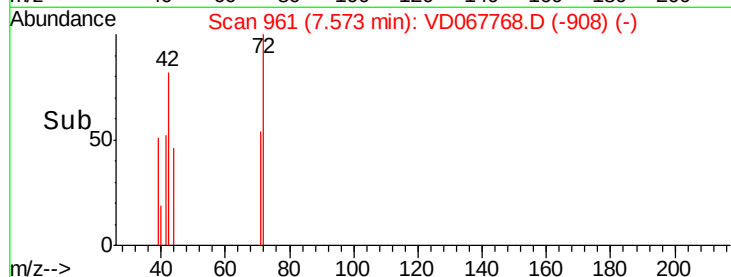
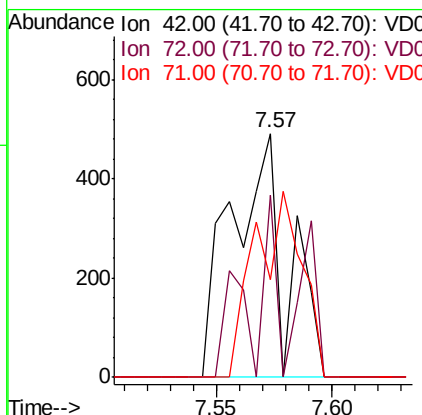
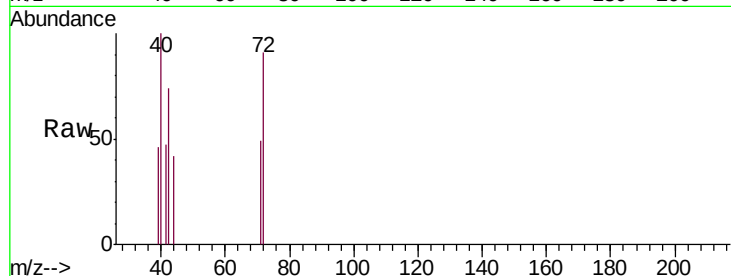




#29  
Tetrahydrofuran  
Concen: 4.300 ug/l  
RT: 7.57 min Scan# 961  
Delta R.T. 0.01 min  
Lab File: VD067768.D  
Acq: 24 Nov 2020 14:47

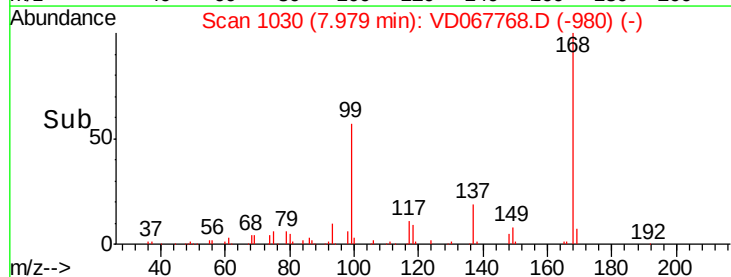
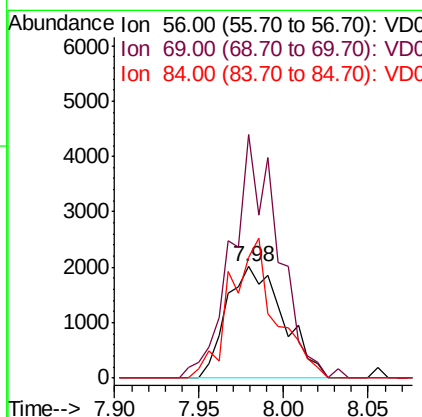
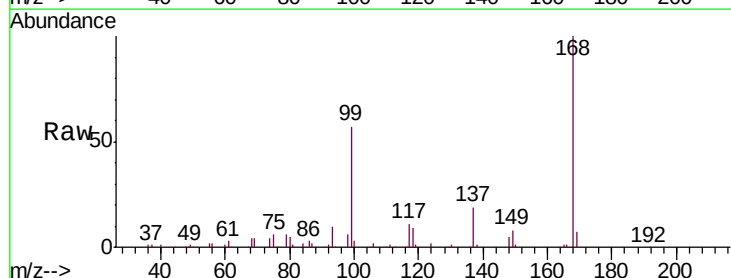
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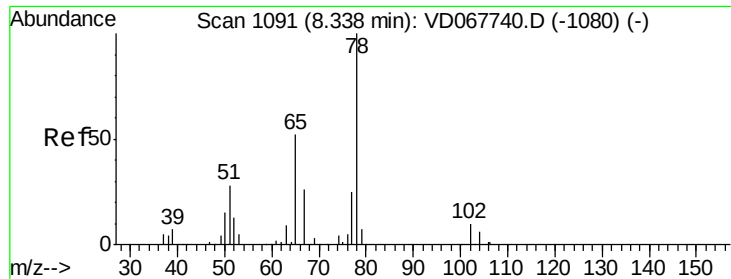
Tgt Ion: 42 Resp: 806  
Ion Ratio Lower Upper  
42 100  
72 16.1 49.3 73.9#  
71 66.3 45.9 68.9



#31  
Cyclohexane  
Concen: 1.717 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD067768.D  
Acq: 24 Nov 2020 14:47

Tgt Ion: 56 Resp: 4724  
Ion Ratio Lower Upper  
56 100  
69 210.3 33.2 49.8#  
84 109.1 84.8 127.2

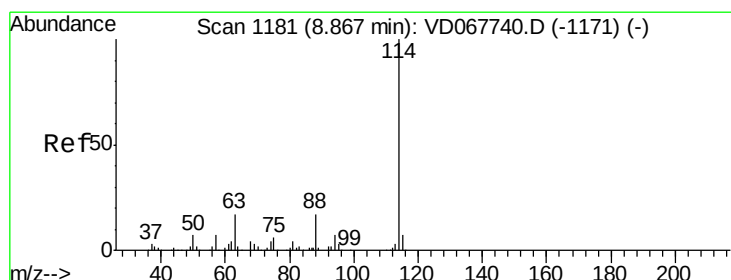
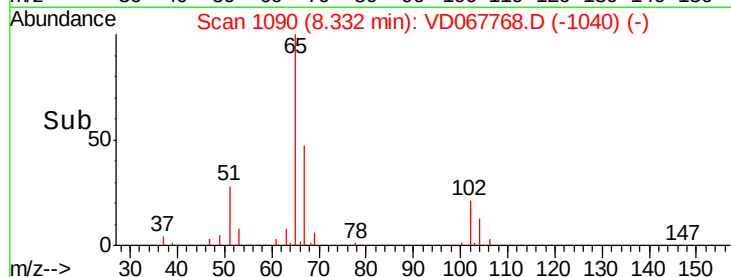
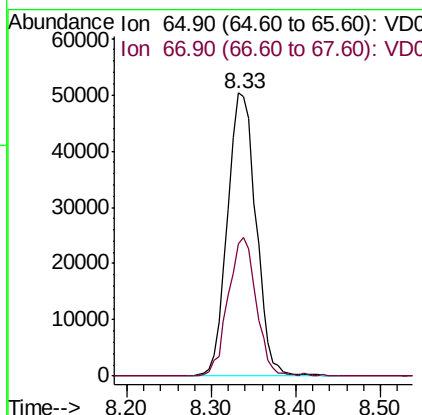
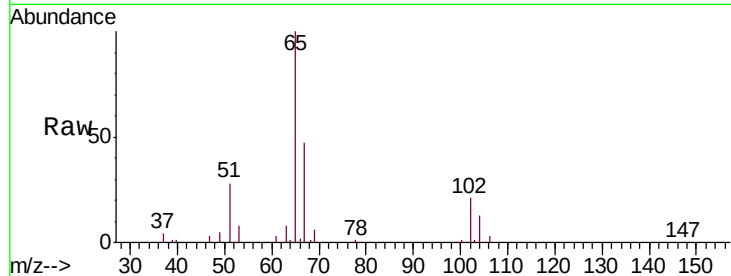




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.473 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. -0.01 min  
 Lab File: VD067768.D  
 Acq: 24 Nov 2020 14:47

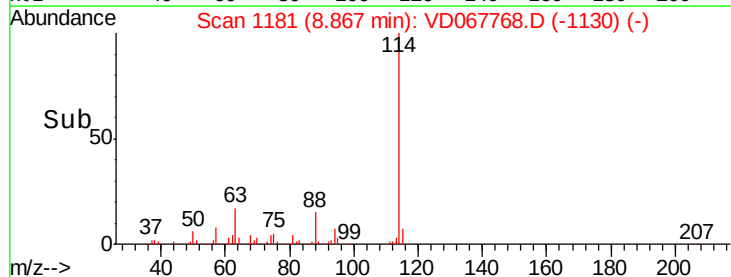
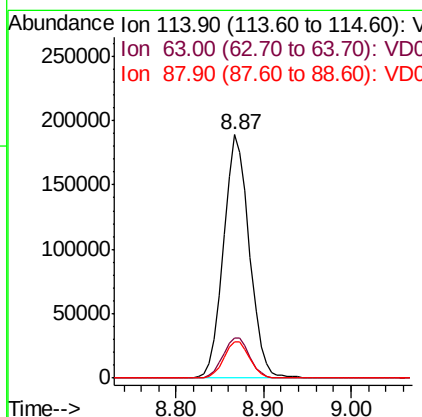
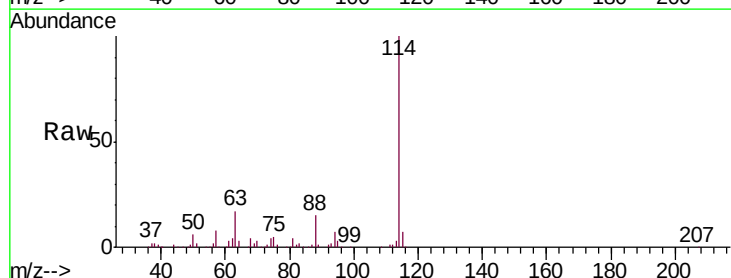
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
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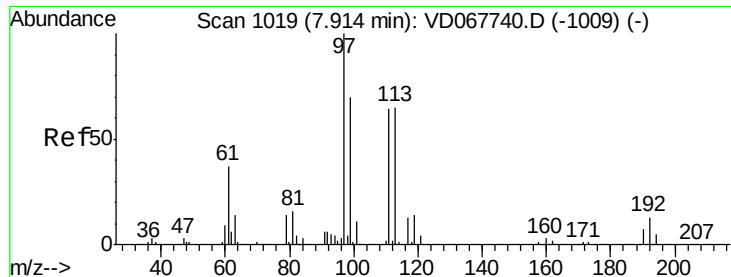
Tgt Ion: 65 Resp: 117055  
 Ion Ratio Lower Upper  
 65 100  
 67 48.1 0.0 101.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD067768.D  
 Acq: 24 Nov 2020 14:47

Tgt Ion: 114 Resp: 383339  
 Ion Ratio Lower Upper  
 114 100  
 63 16.7 0.0 34.8  
 88 15.0 0.0 34.4

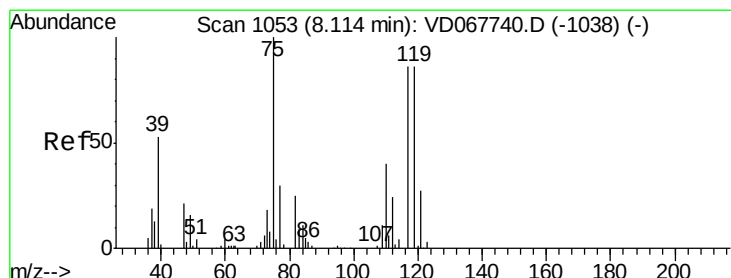
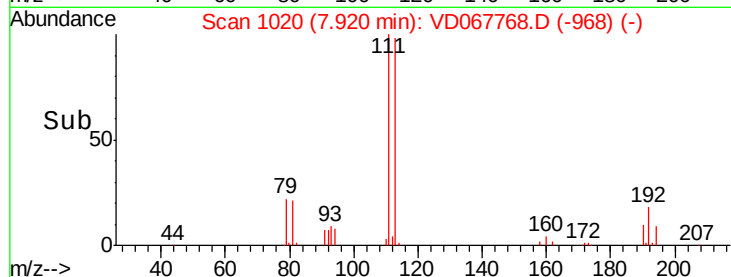
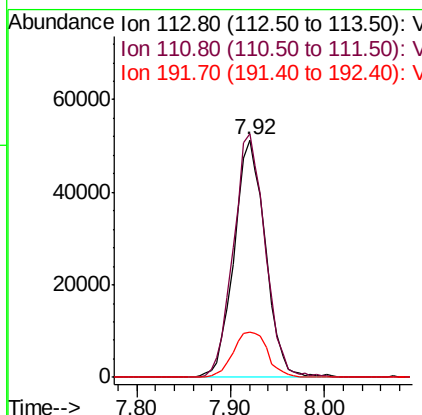
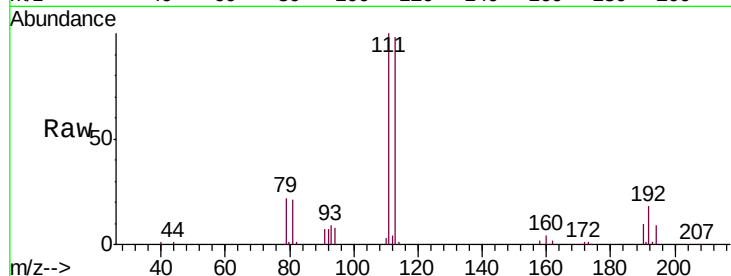




#35  
 Dibromofluoromethane  
 Concen: 48.601 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD067768.D  
 Acq: 24 Nov 2020 14:47

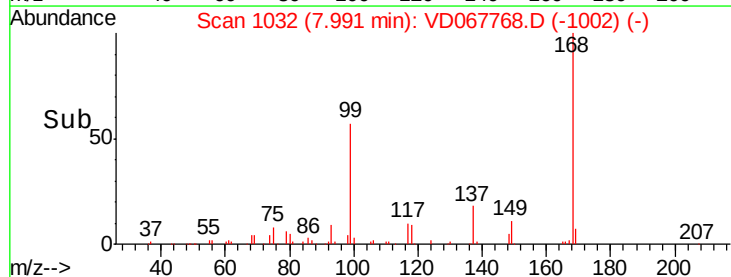
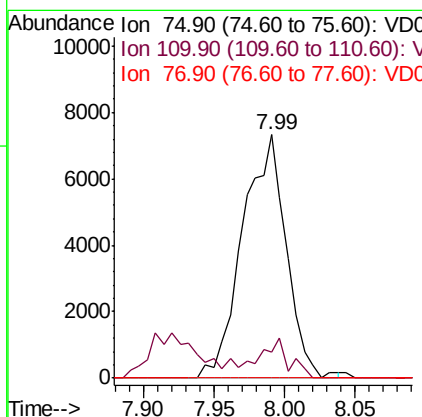
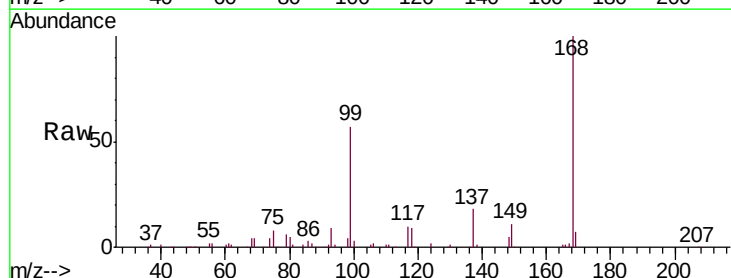
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 11620

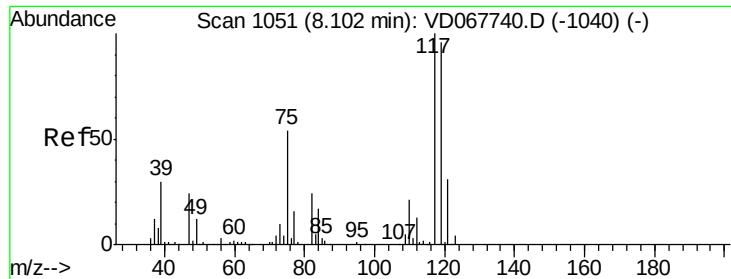
Tgt Ion:113 Resp: 118564  
 Ion Ratio Lower Upper  
 113 100  
 111 103.7 81.4 122.0  
 192 20.8 17.0 25.4



#36  
 1,1-Dichloropropene  
 Concen: 4.828 ug/l  
 RT: 7.99 min Scan# 1032  
 Delta R.T. -0.12 min  
 Lab File: VD067768.D  
 Acq: 24 Nov 2020 14:47

Tgt Ion: 75 Resp: 15881  
 Ion Ratio Lower Upper  
 75 100  
 110 11.0 20.1 60.2#  
 77 0.0 24.8 37.2#

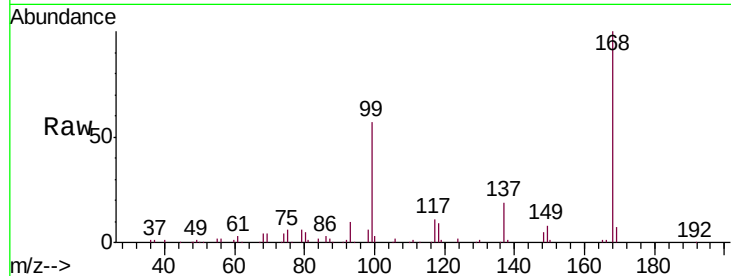




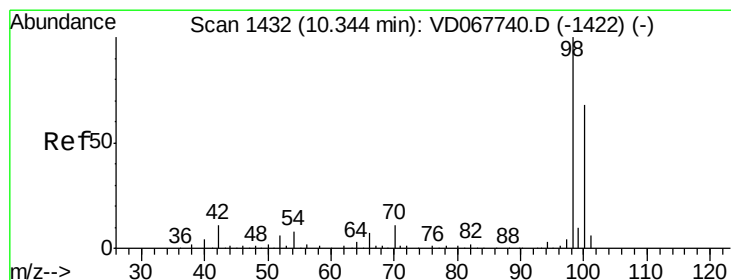
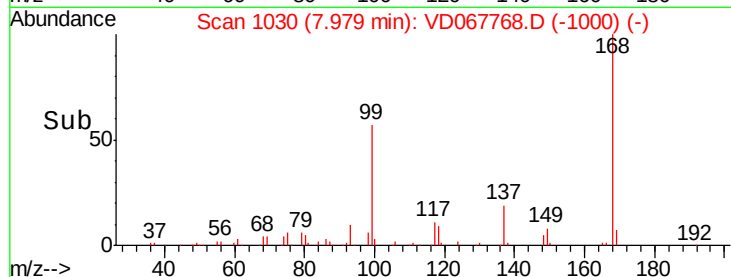
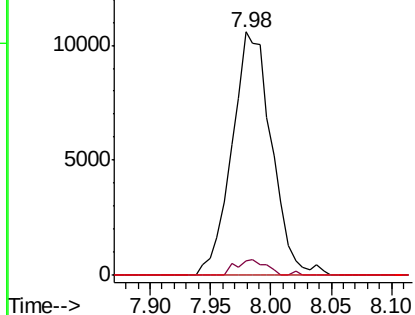
#38  
Carbon Tetrachloride  
Concen: 5.069 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.12 min  
Lab File: VD067768.D  
Acq: 24 Nov 2020 14:47

Instrument :  
MSVOA\_D  
ClientSampleId :  
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Tgt Ion:117 Resp: 24170  
Ion Ratio Lower Upper  
117 100  
119 6.2 76.6 115.0#  
121 0.0 24.5 36.7#

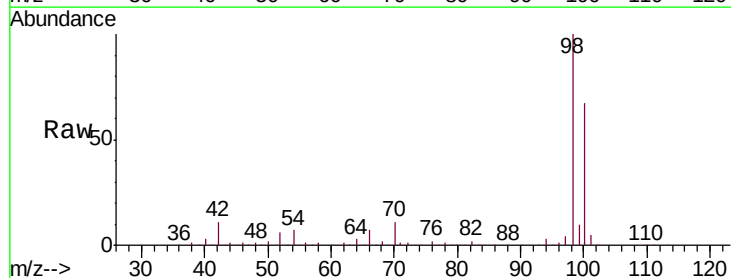


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

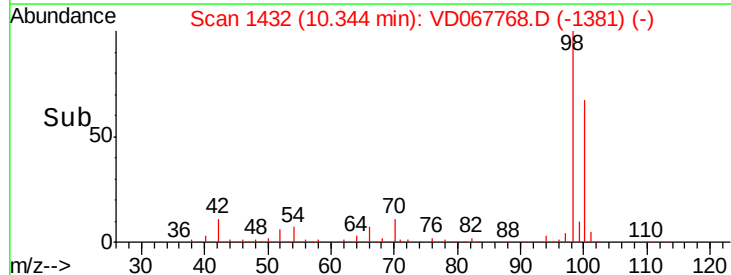
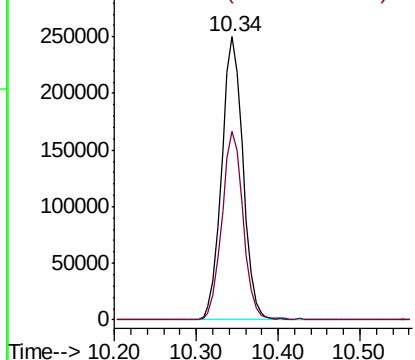


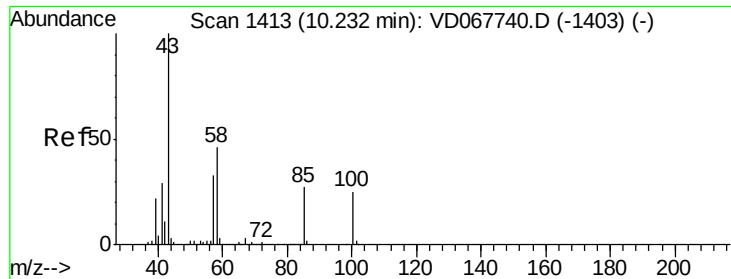
#50  
Toluene-d8  
Concen: 51.002 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD067768.D  
Acq: 24 Nov 2020 14:47

Tgt Ion: 98 Resp: 454902  
Ion Ratio Lower Upper  
98 100  
100 65.6 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): V  
Ion 100.00 (99.70 to 100.70): V

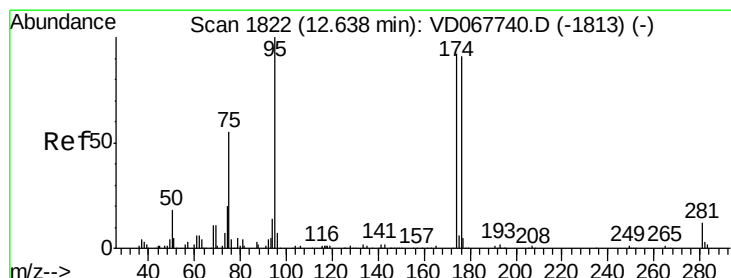
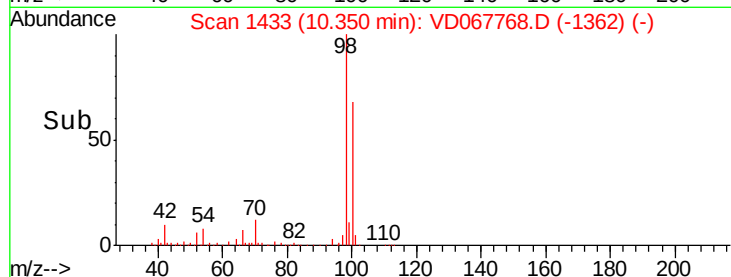
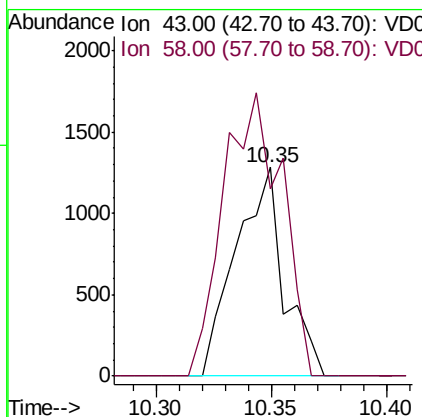
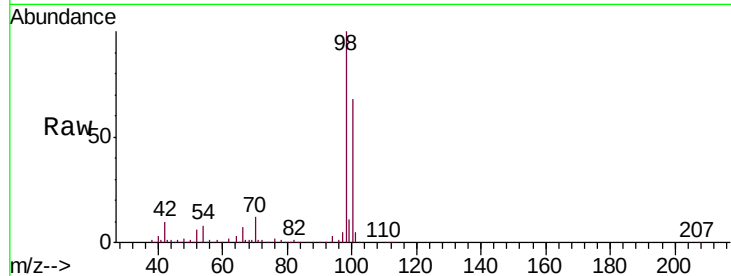




#51  
 4-Methyl-2-Pentanone  
 Concen: 2.239 ug/l  
 RT: 10.35 min Scan# 1433  
 Delta R.T. 0.12 min  
 Lab File: VD067768.D  
 Acq: 24 Nov 2020 14:47

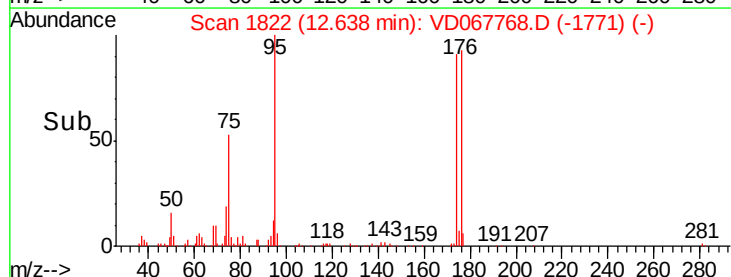
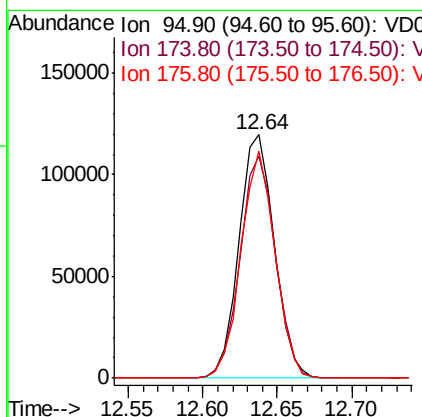
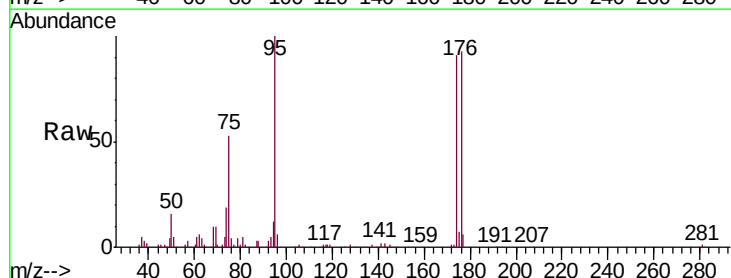
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 MSVOA\_D  
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Tgt Ion: 43 Resp: 1861  
 Ion Ratio Lower Upper  
 43 100  
 58 164.6 34.7 52.1#

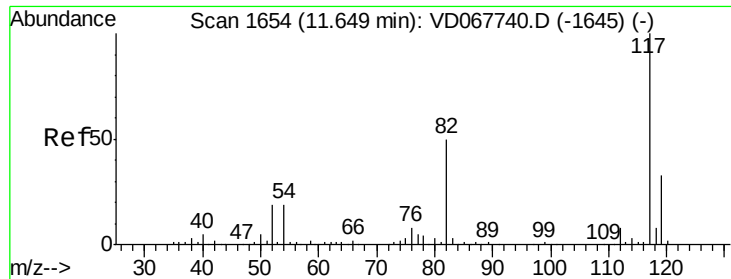


#62  
 4-Bromofluorobenzene  
 Concen: 64.670 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.00 min  
 Lab File: VD067768.D  
 Acq: 24 Nov 2020 14:47

Tgt Ion: 95 Resp: 197155  
 Ion Ratio Lower Upper  
 95 100  
 174 91.1 0.0 182.4  
 176 89.4 0.0 178.2



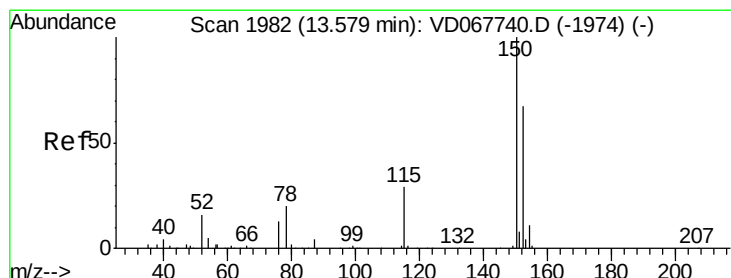
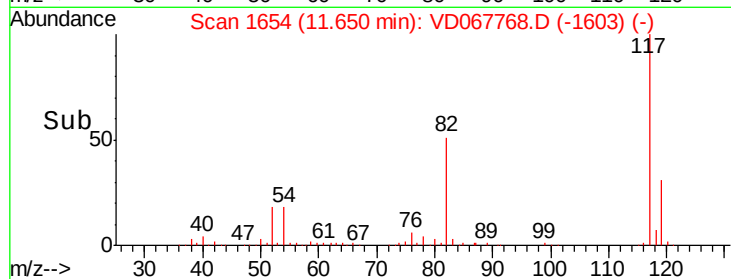
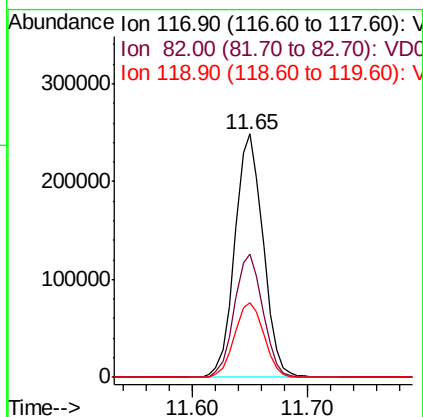
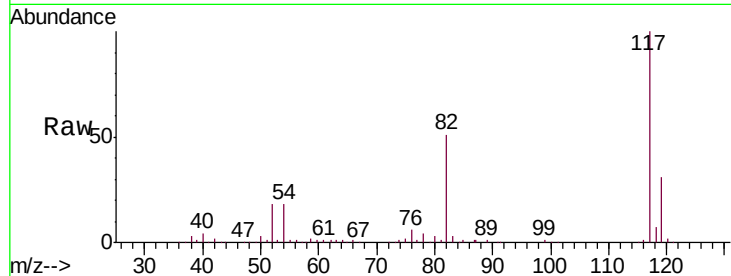




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067768.D  
Acq: 24 Nov 2020 14:47

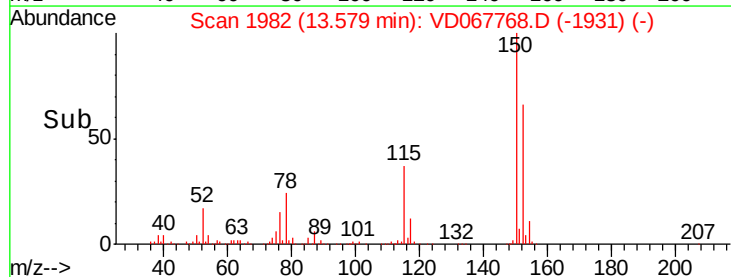
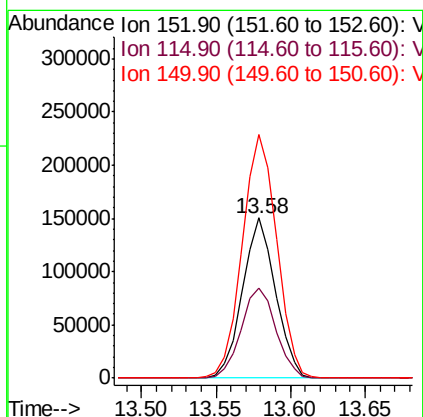
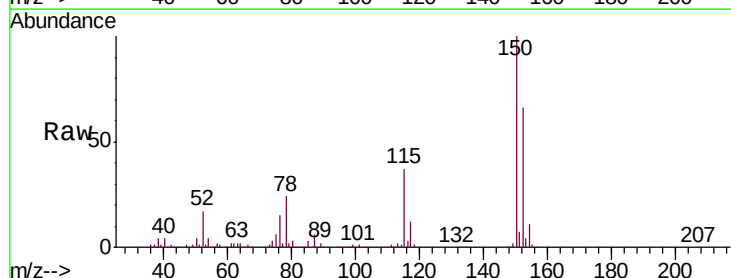
Instrument :  
MSVOA\_D  
ClientSampled :  
11620

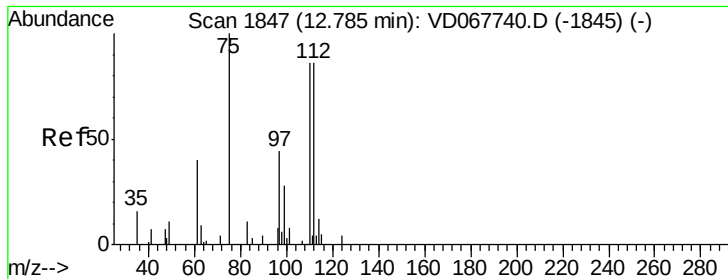
Tgt Ion:117 Resp: 422300  
Ion Ratio Lower Upper  
117 100  
82 50.8 40.2 60.4  
119 30.6 26.5 39.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067768.D  
Acq: 24 Nov 2020 14:47

Tgt Ion:152 Resp: 230967  
Ion Ratio Lower Upper  
152 100  
115 59.0 29.4 88.3  
150 158.2 0.0 340.6





#76

1,2,3-Trichloropropane

Concen: 65.597 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067768.D

Acq: 24 Nov 2020 14:47

Instrument :

MSVOA\_D

ClientSampleId :

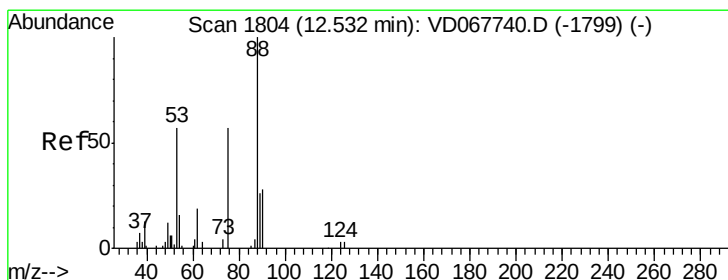
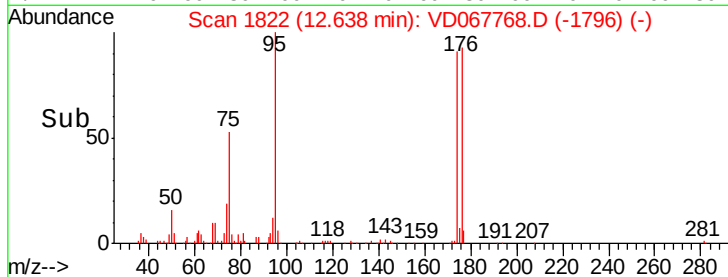
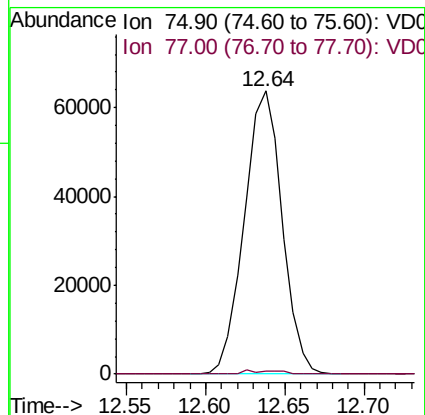
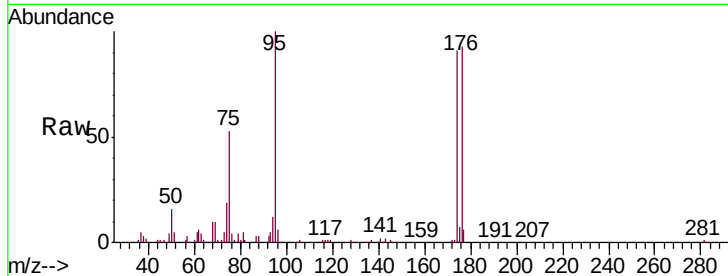
11620

Tgt Ion: 75 Resp: 105594

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 153.427 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067768.D

Acq: 24 Nov 2020 14:47

Tgt Ion: 75 Resp: 105594

Ion Ratio Lower Upper

75 100

53 0.0 76.0 114.0#

89 0.1 40.2 60.4#

