

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120320\  
 Data File : VD067870.D  
 Acq On : 03 Dec 2020 16:17  
 Operator : VA/SY  
 Sample : L4914-02  
 Misc : 5.10G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VOC

Quant Time: Dec 04 01:09:08 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      | 7.99  | 168  | 242144   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 339754   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 294752   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 134016   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65    | 110302   | 42.43    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 84.86% |
| 35) Dibromofluoromethane  | 7.92   | 113   | 98156    | 43.17    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 86.34% |
| 50) Toluene-d8            | 10.34  | 98    | 385126   | 47.06    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 94.12% |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 116006   | 41.00    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 82.00% |

## Target Compounds

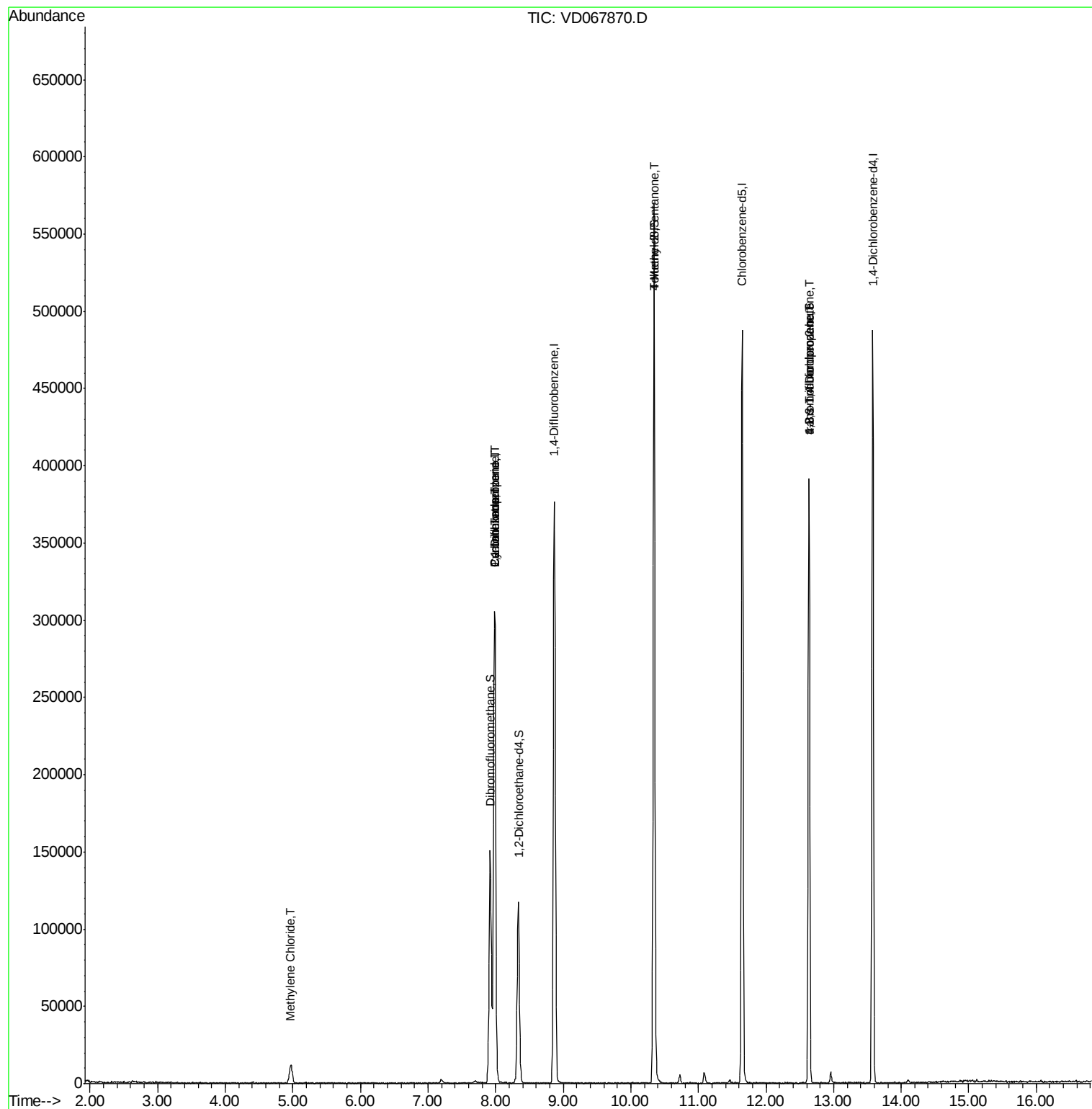
|                                |       |     |       |         | Qvalue |    |
|--------------------------------|-------|-----|-------|---------|--------|----|
| 20) Methylene Chloride         | 4.96  | 84  | 10538 | 1.043   | ug/l   | 94 |
| 31) Cyclohexane                | 7.99  | 56  | 4464  | 1.630   | ug/l # | 19 |
| 36) 1,1-Dichloropropene        | 7.99  | 75  | 16346 | 5.558   | ug/l # | 49 |
| 38) Carbon Tetrachloride       | 7.98  | 117 | 24106 | 5.417   | ug/l # | 15 |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43  | 1383  | 1.873   | ug/l # | 1  |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75  | 65563 | 67.179  | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75  | 65563 | 160.698 | ug/l # | 7  |

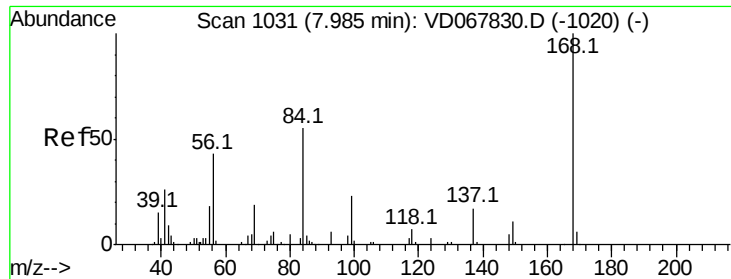
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L4914-02  
Misc : 5.10G/5.00ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

Quant Time: Dec 04 01:09:08 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
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: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067870.D

Acq: 03 Dec 2020 16:17

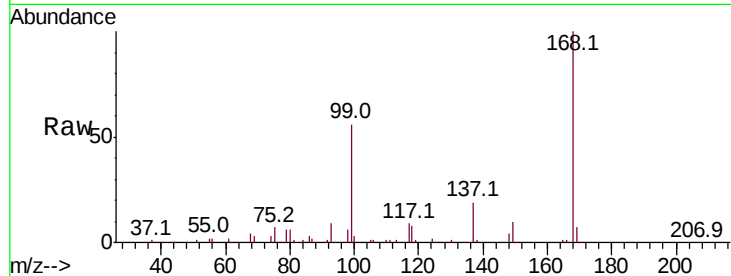
Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

Tot Ion:168 Resp: 242144

Ion Ratio Lower Upper

168 100

99 56.3 47.1 70.7

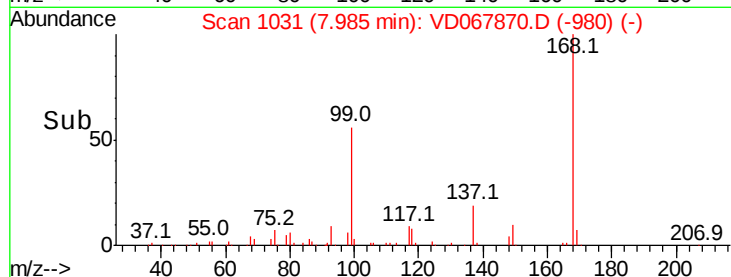


Abundance Ion 167.90 (167.60 to 168.60): V

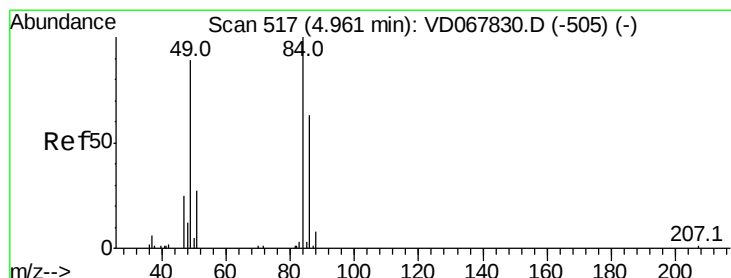
Ion 98.90 (98.60 to 99.60): VDC

7.99

Time-->



Time-->



#20

Methylene Chloride

Concen: 1.043 ug/l

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067870.D

Acq: 03 Dec 2020 16:17

Tgt Ion: 84 Resp: 10538

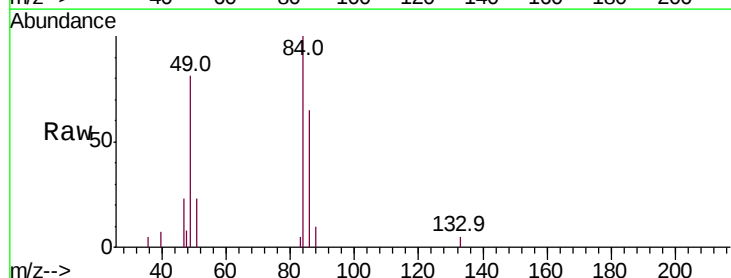
Ion Ratio Lower Upper

84 100

49 81.4 71.4 107.0

51 23.2 21.8 32.8

86 65.0 50.6 75.8



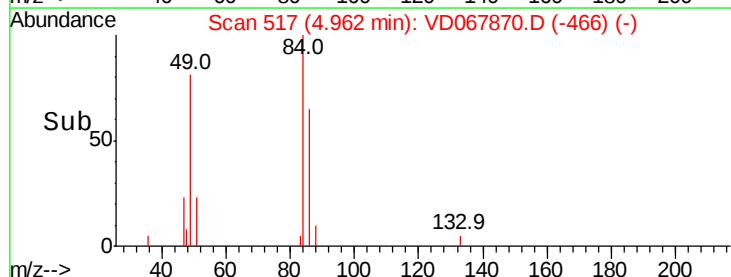
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

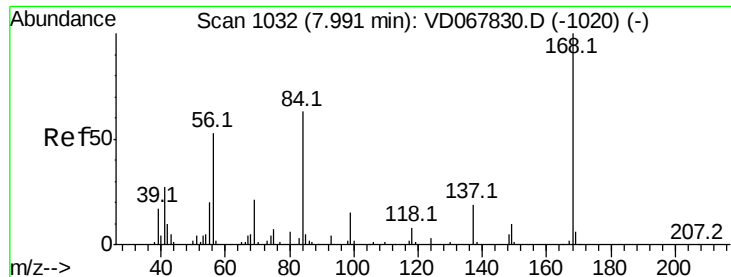
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

Time-->



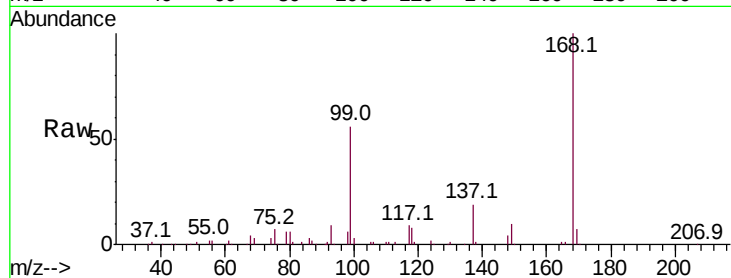
Time-->



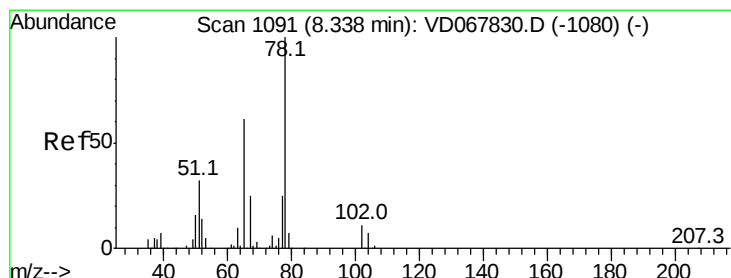
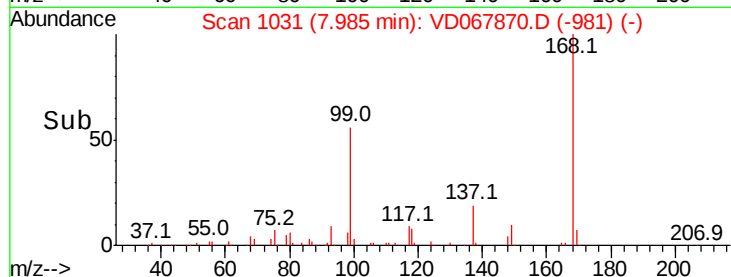
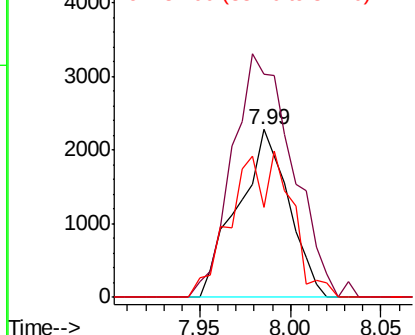
#31  
Cyclohexane  
Concen: 1.630 ug/l  
RT: 7.99 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: VD067870.D  
Acq: 03 Dec 2020 16:17

Instrument :  
MSVOA\_D  
ClientSampleID :  
VOC

Tot Ion: 56 Resp: 4464  
Ion Ratio Lower Upper  
56 100  
69 133.3 32.1 48.1#  
84 53.5 93.2 139.8#

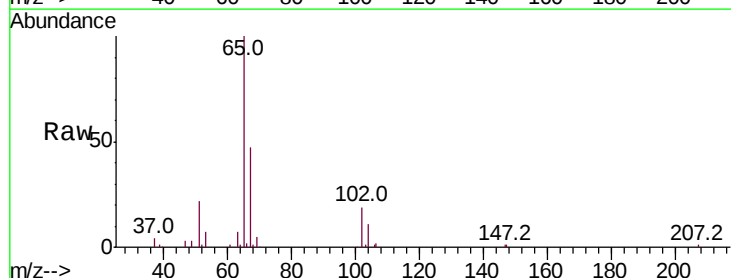


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

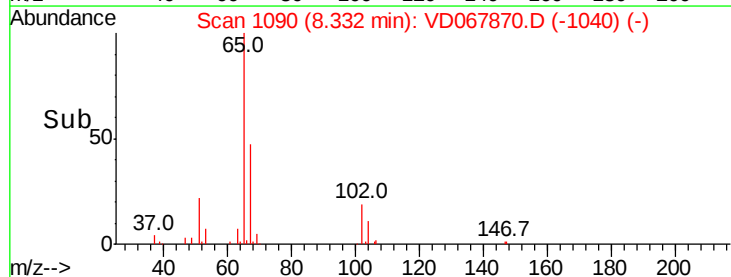
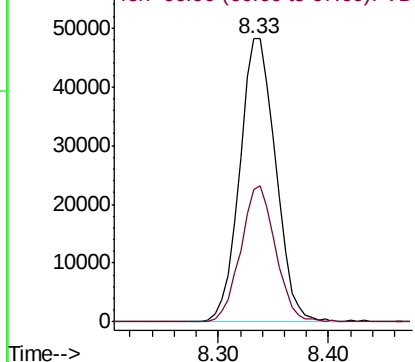


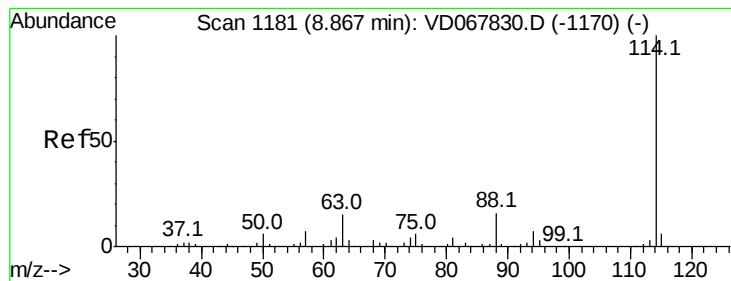
#33  
1,2-Dichloroethane-d4  
Concen: 42.432 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.01 min  
Lab File: VD067870.D  
Acq: 03 Dec 2020 16:17

Tgt Ion: 65 Resp: 110302  
Ion Ratio Lower Upper  
65 100  
67 46.2 0.0 92.0



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: VD067870.D

Acq: 03 Dec 2020 16:17

Instrument :

MSVOA\_D

ClientSampleId :

VOC

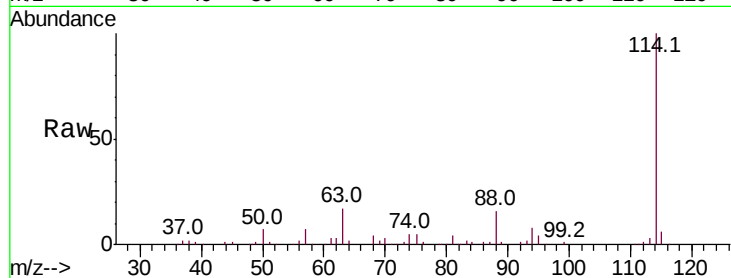
Tot Ion:114 Resp: 339754

Ion Ratio Lower Upper

114 100

63 16.8 0.0 30.8

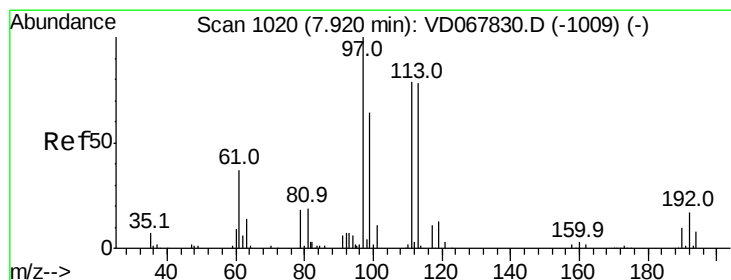
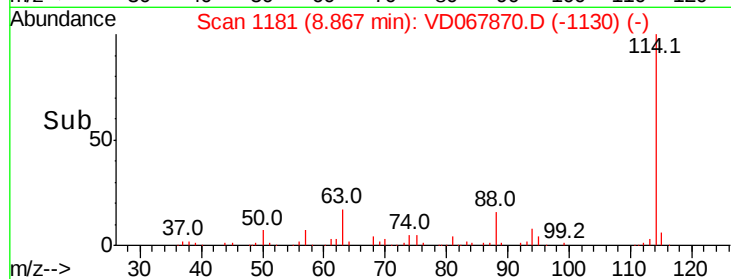
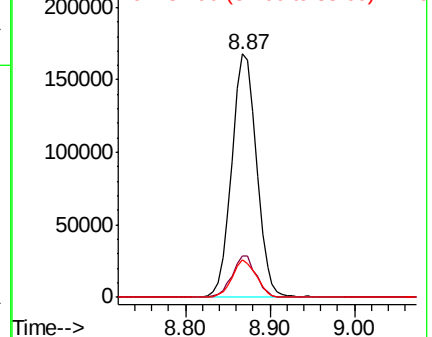
88 15.6 0.0 31.8



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: 43.175 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067870.D

Acq: 03 Dec 2020 16:17

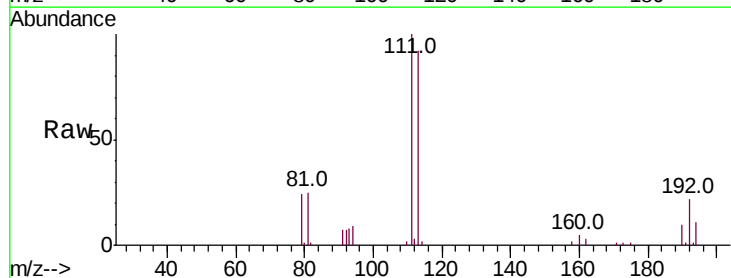
Tgt Ion:113 Resp: 98156

Ion Ratio Lower Upper

113 100

111 104.1 81.2 121.8

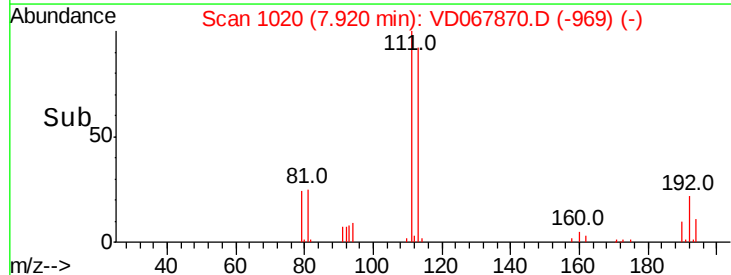
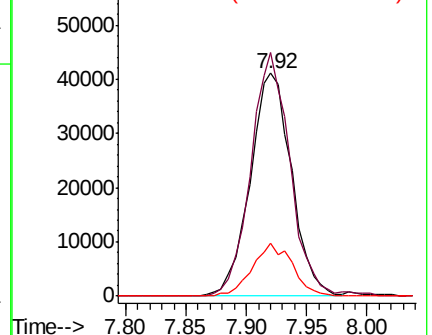
192 22.8 16.8 25.2

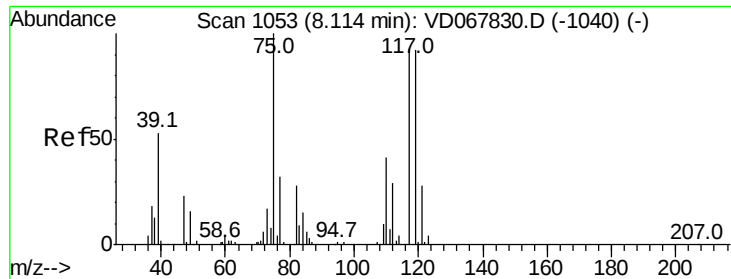


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

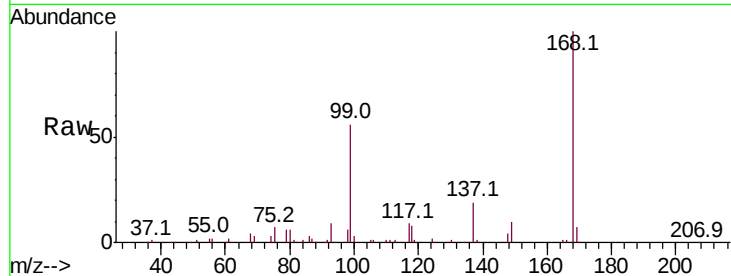




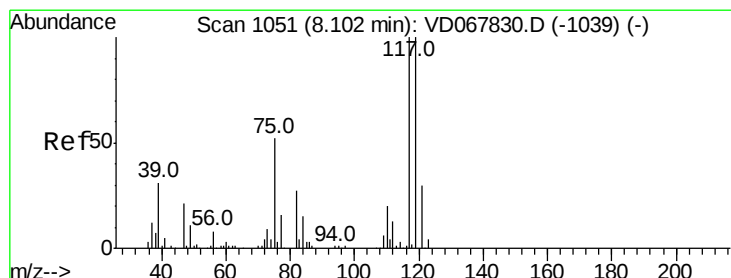
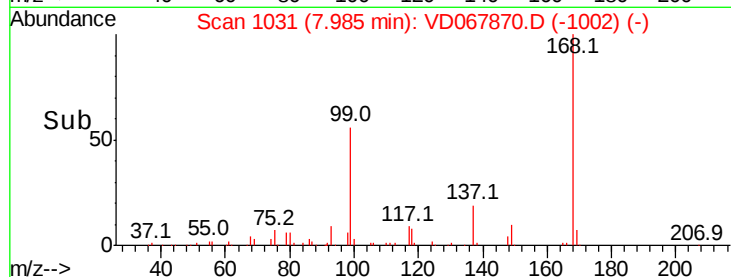
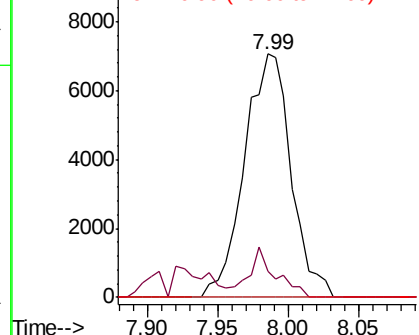
#36  
 1,1-Dichloropropene  
 Concen: 5.558 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD067870.D  
 Acq: 03 Dec 2020 16:17

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VOC

Tot Ion: 75 Resp: 16346  
 Ion Ratio Lower Upper  
 75 100  
 110 11.7 20.3 61.0#  
 77 0.0 24.7 37.1#

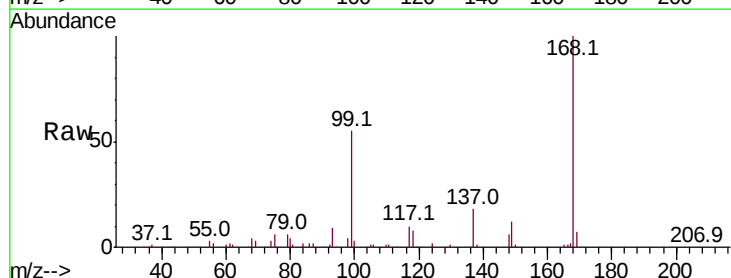


Abundance Ion 74.90 (74.60 to 75.60): VDC  
 Ion 109.90 (109.60 to 110.60): VDC  
 Ion 76.90 (76.60 to 77.60): VDC

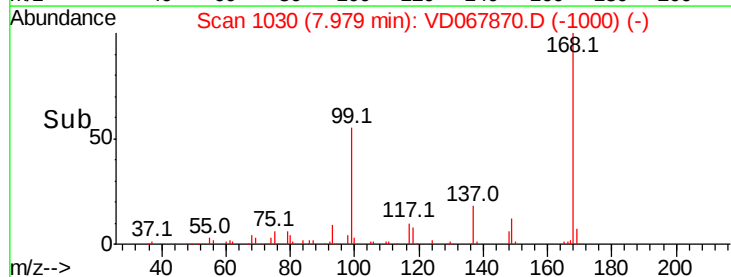
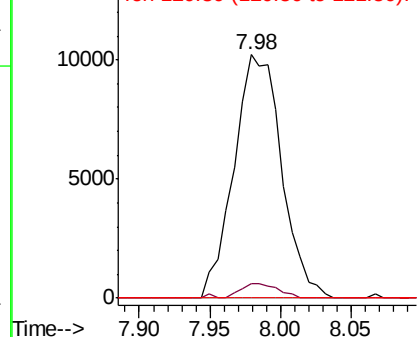


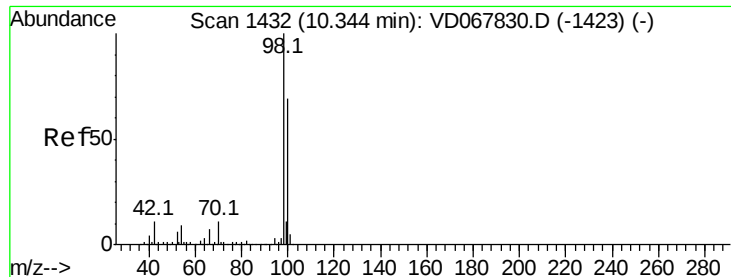
#38  
 Carbon Tetrachloride  
 Concen: 5.417 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.12 min  
 Lab File: VD067870.D  
 Acq: 03 Dec 2020 16:17

Tgt Ion: 117 Resp: 24106  
 Ion Ratio Lower Upper  
 117 100  
 119 6.1 79.7 119.5#  
 121 0.0 23.8 35.6#



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





#50

Toluene-d8

Concen: 47.059 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067870.D

Acq: 03 Dec 2020 16:17

Instrument :

MSVOA\_D

ClientSampleId :

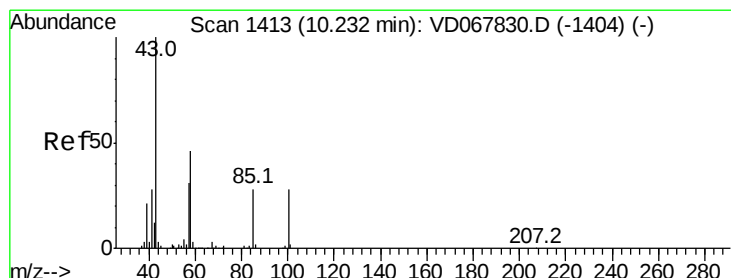
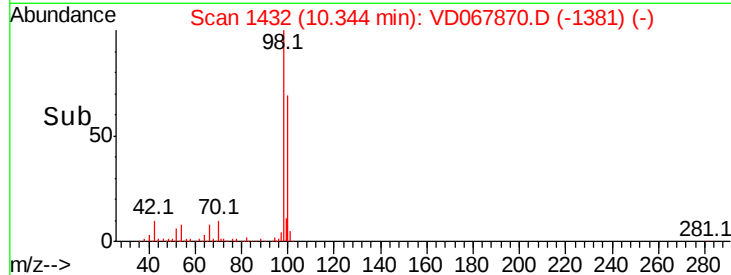
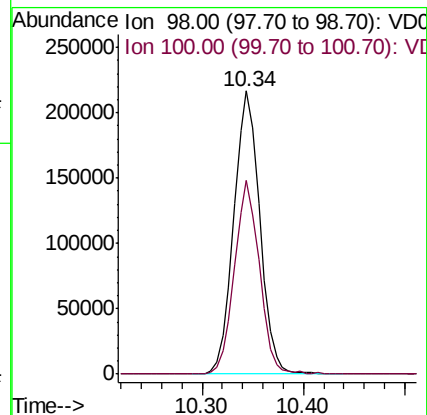
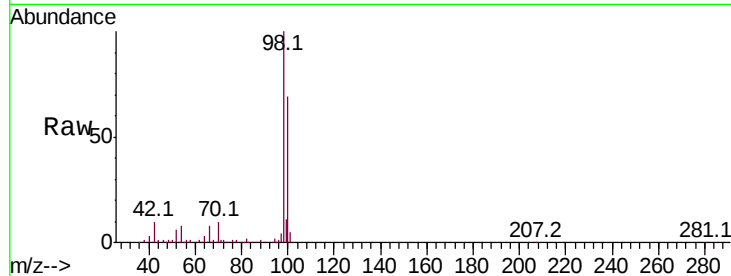
VOC

Tot Ion: 98 Resp: 385126

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 1.873 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.11 min

Lab File: VD067870.D

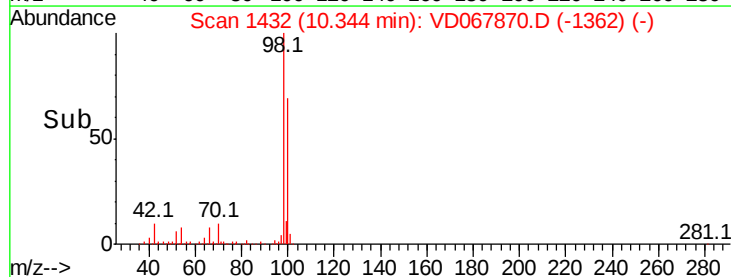
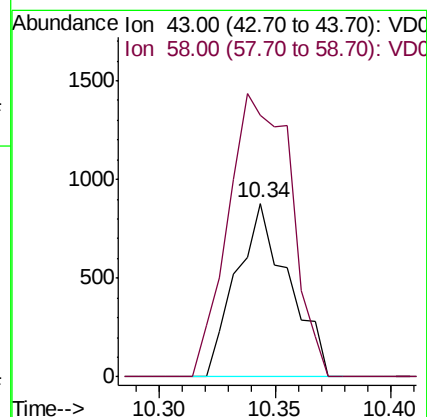
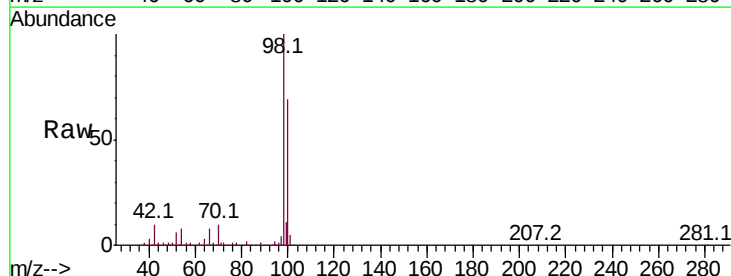
Acq: 03 Dec 2020 16:17

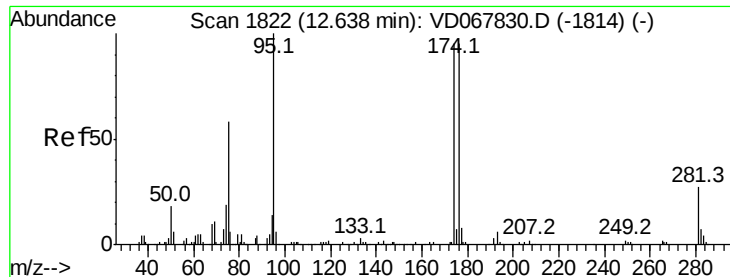
Tgt Ion: 43 Resp: 1383

Ion Ratio Lower Upper

43 100

58 196.5 35.7 53.5#

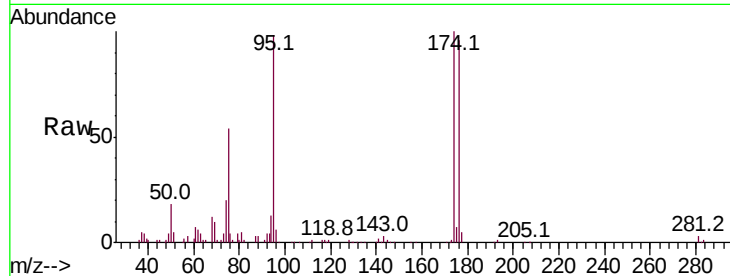




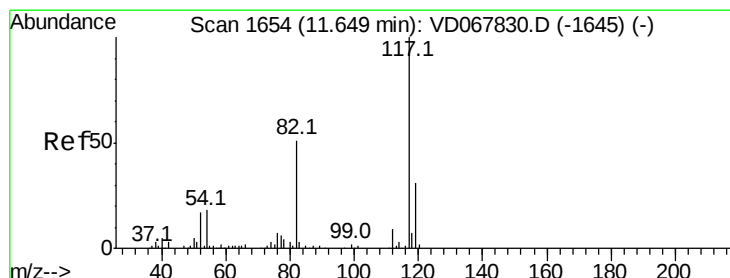
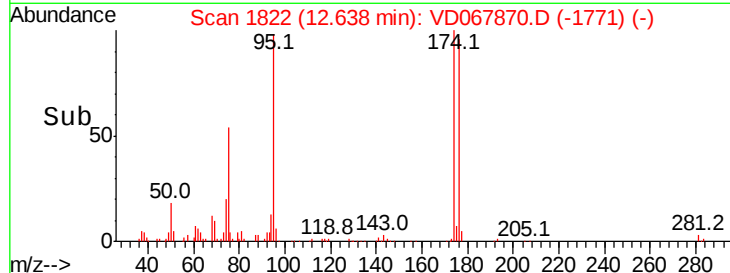
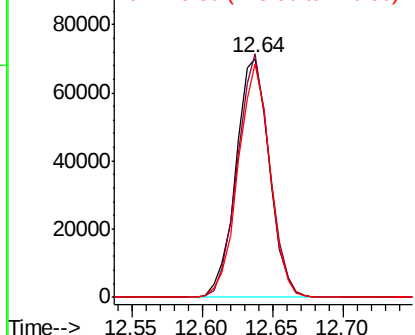
#62  
4-Bromofluorobenzene  
Concen: 41.000 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD067870.D  
Acq: 03 Dec 2020 16:17

Instrument :  
MSVOA\_D  
ClientSampleId :  
VOC

Tot Ion: 95 Resp: 116006  
Ion Ratio Lower Upper  
95 100  
174 97.8 0.0 186.0  
176 93.1 0.0 184.2

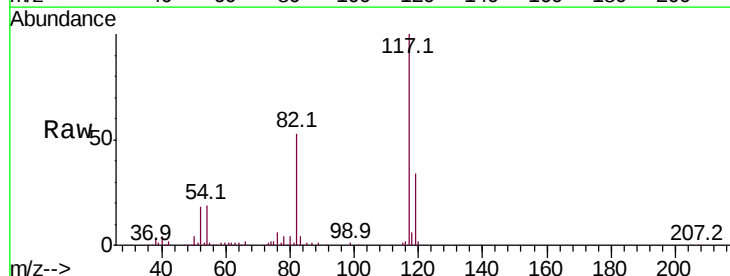


Abundance Ion 94.90 (94.60 to 95.60): V  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

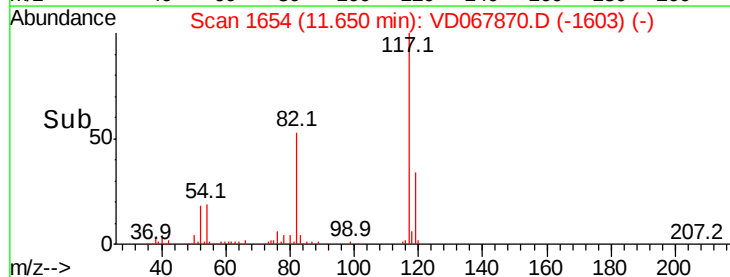
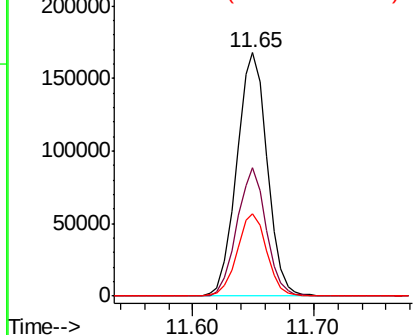


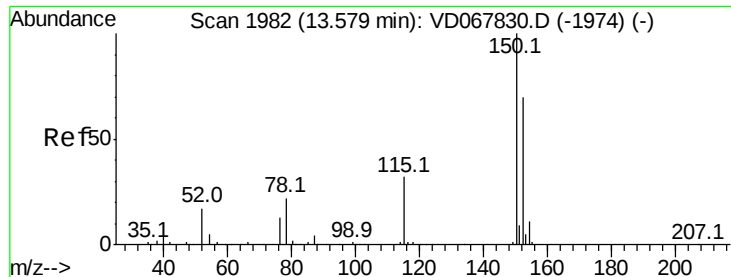
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067870.D  
Acq: 03 Dec 2020 16:17

Tgt Ion: 117 Resp: 294752  
Ion Ratio Lower Upper  
117 100  
82 52.5 40.6 60.8  
119 34.0 25.1 37.7



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# 1982

Delta R.T. 0.00 min

Lab File: VD067870.D

Acq: 03 Dec 2020 16:17

Instrument :

MSVOA\_D

ClientSampleId :

VOC

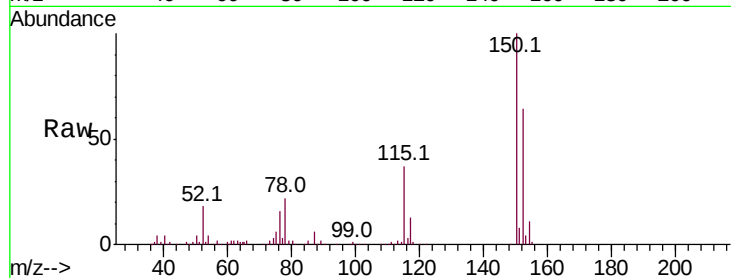
Tot Ion:152 Resp: 134016

Ion Ratio Lower Upper

152 100

115 59.3 29.1 87.4

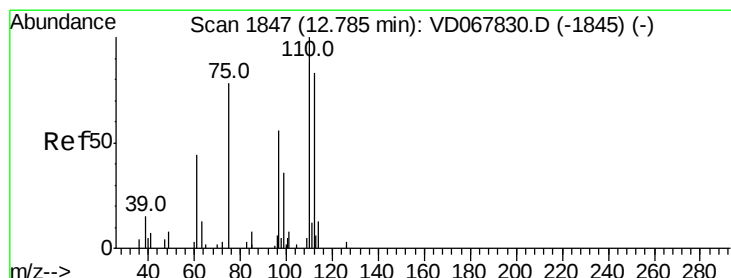
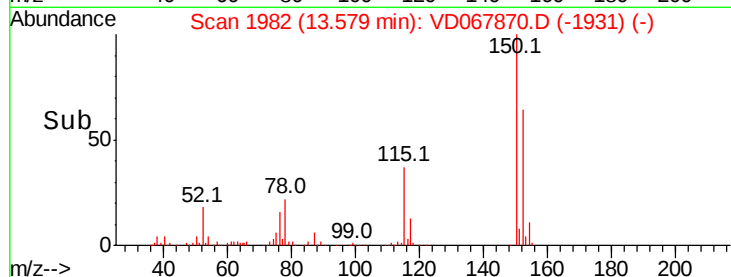
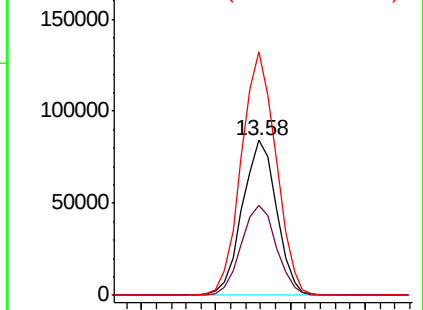
150 159.1 0.0 339.0



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



#76

1,2,3-Trichloropropane

Concen: 67.179 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067870.D

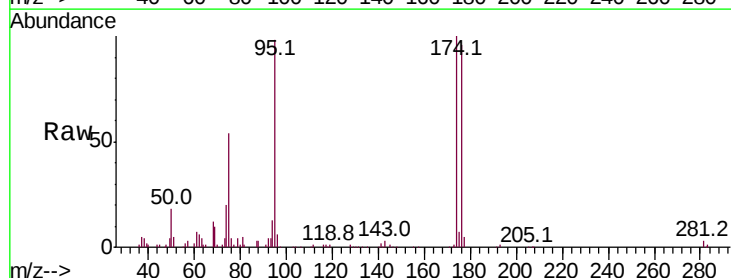
Acq: 03 Dec 2020 16:17

Tgt Ion: 75 Resp: 65563

Ion Ratio Lower Upper

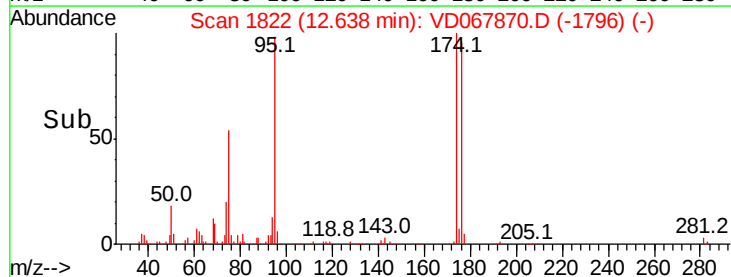
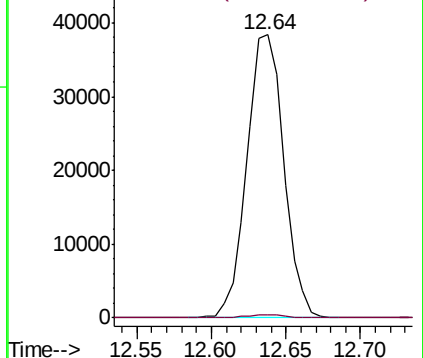
75 100

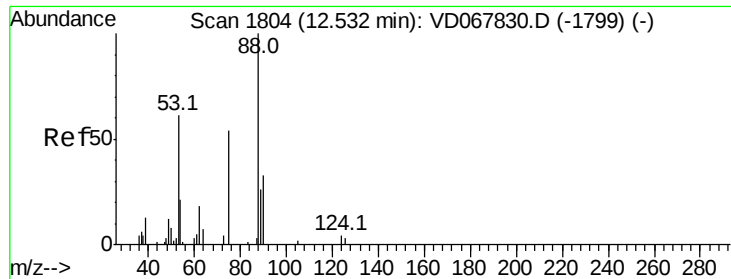
77 1.1 175.9 527.7#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 160.698 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067870.D

Acq: 03 Dec 2020 16:17

Instrument :

MSVOA\_D

ClientSampleId :

VOC

Tot Ion: 75 Resp: 65563

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

89 0.0 41.0 61.6#

