

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120920\  
 Data File : VD067924.D  
 Acq On : 09 Dec 2020 13:25  
 Operator : VA/SY  
 Sample : L4984-03  
 Misc : 7.09G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR3-D-BOTTOM

Quant Time: Dec 10 02:09:46 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  | 222700   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 314633   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 272486   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 135420   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65    | 110019   | 46.02    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 92.04% |
| 35) Dibromofluoromethane  | 7.92   | 113   | 91065    | 43.25    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 86.50% |
| 50) Toluene-d8            | 10.34  | 98    | 347570   | 45.86    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 91.72% |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 110368   | 42.12    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 84.24% |

## Target Compounds

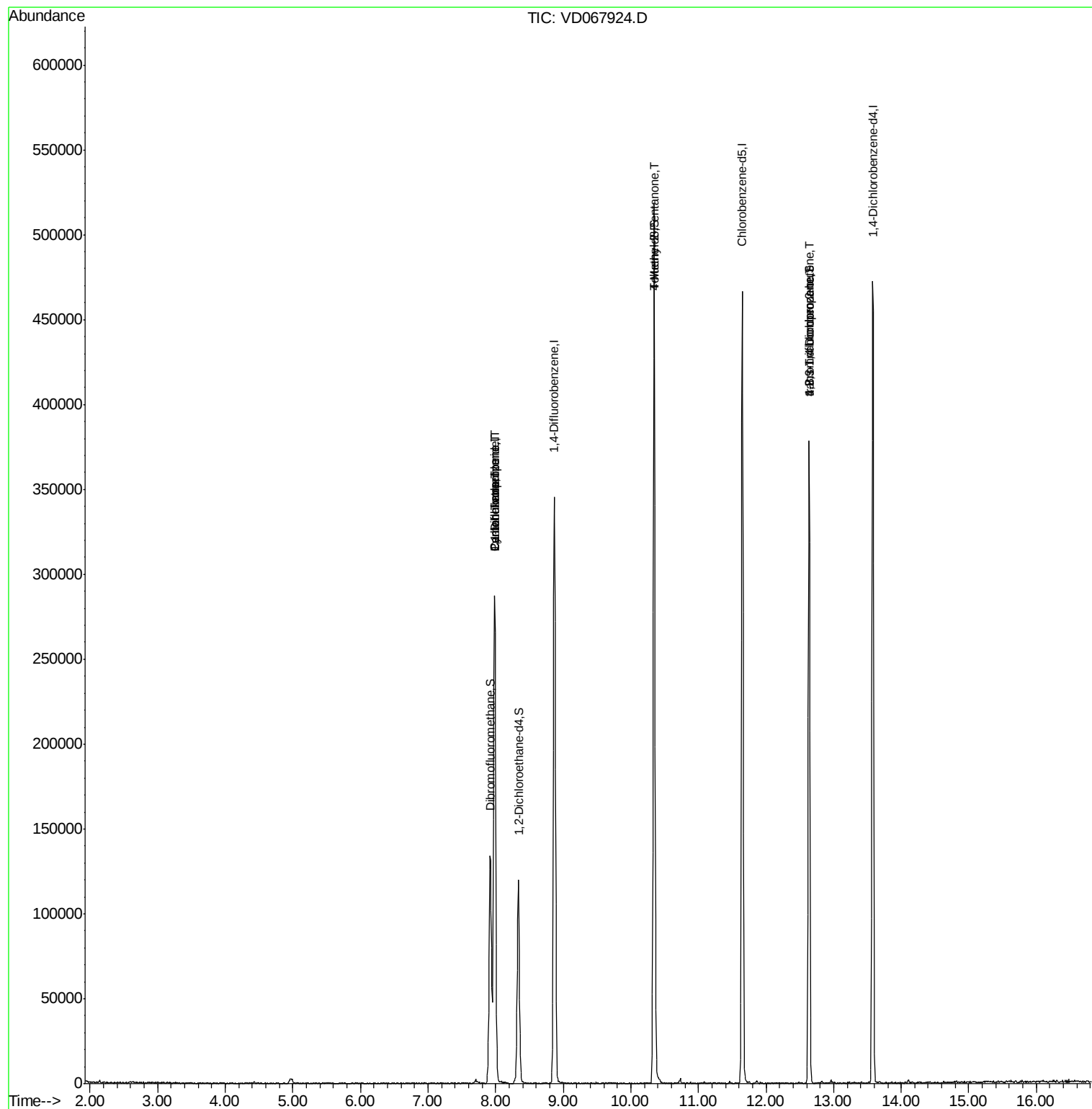
|                                |       |     |       |           | Qvalue |    |
|--------------------------------|-------|-----|-------|-----------|--------|----|
| 20) Methylene Chloride         | 4.96  | 84  | 2861  | Below Cal | #      | 74 |
| 31) Cyclohexane                | 7.98  | 56  | 4030  | 1.600     | ug/l # | 30 |
| 36) 1,1-Dichloropropene        | 7.98  | 75  | 14796 | 5.432     | ug/l # | 51 |
| 38) Carbon Tetrachloride       | 7.99  | 117 | 23061 | 5.596     | ug/l # | 16 |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43  | 1025  | 1.499     | ug/l # | 1  |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75  | 64881 | 65.791    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75  | 64881 | 157.378   | ug/l # | 7  |

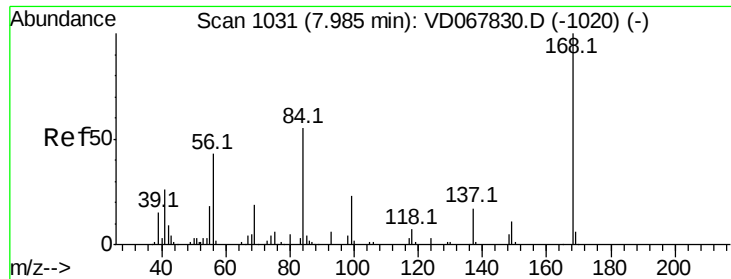
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
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Response via : Initial Calibration



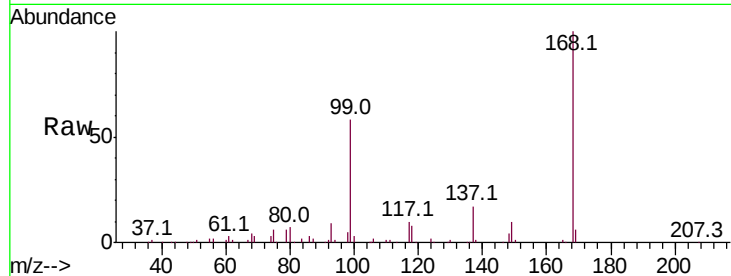


#1

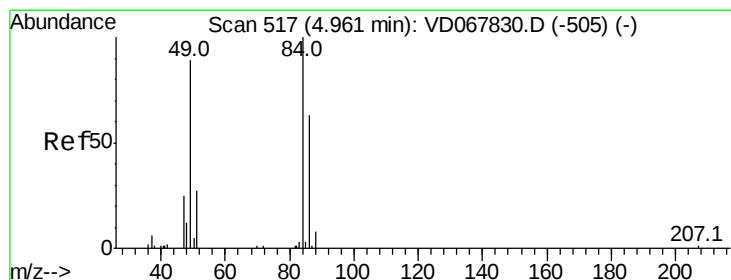
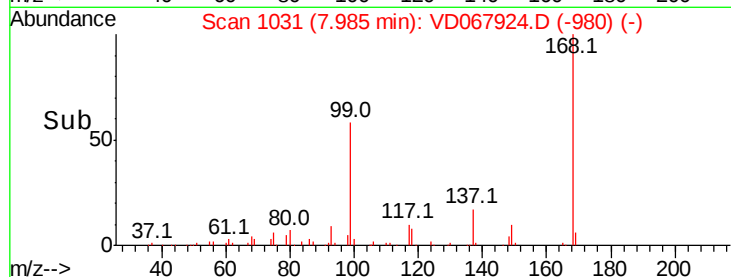
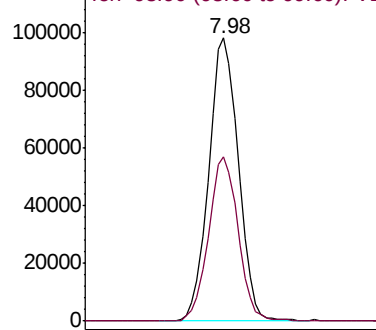
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. 0.00 min  
 Lab File: VD067924.D  
 Acq: 09 Dec 2020 13:25

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR3-D-BOTTOM

Tot Ion:168 Resp: 222700  
 Ion Ratio Lower Upper  
 168 100  
 99 58.2 47.1 70.7



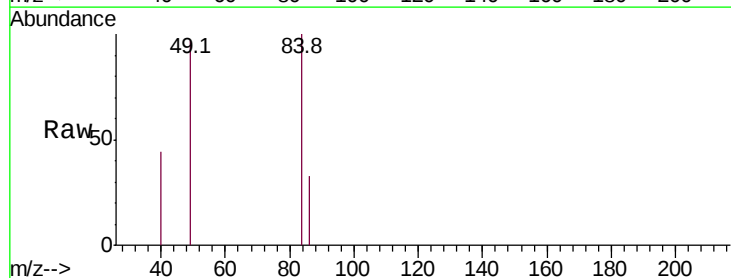
Abundance Ion 167.90 (167.60 to 168.60): V  
 Ion 98.90 (98.60 to 99.60): VDC



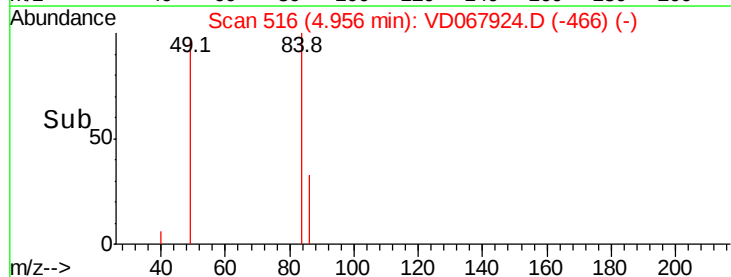
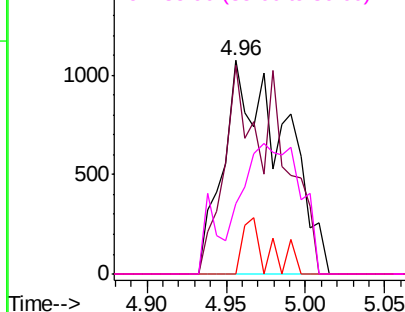
#20

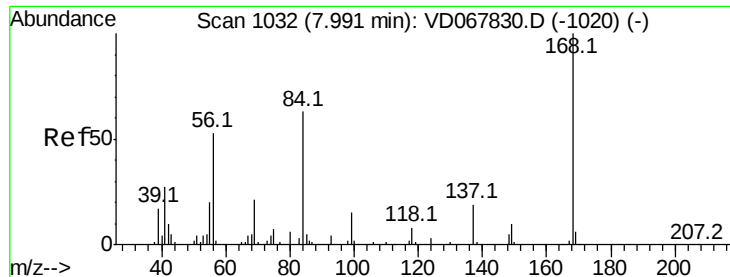
Methylene Chloride  
 Concen: Below Cal  
 RT: 4.96 min Scan# 516  
 Delta R.T. -0.01 min  
 Lab File: VD067924.D  
 Acq: 09 Dec 2020 13:25

Tgt Ion: 84 Resp: 2861  
 Ion Ratio Lower Upper  
 84 100  
 49 97.5 71.4 107.0  
 51 0.0 21.8 32.8#  
 86 33.0 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

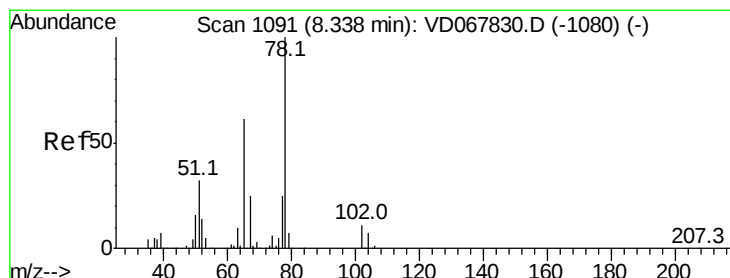
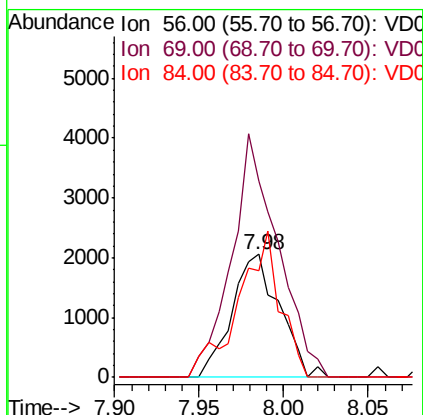
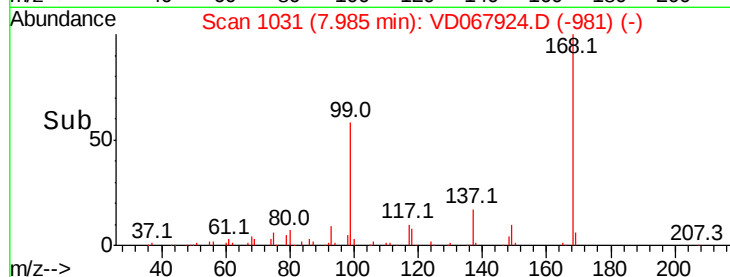
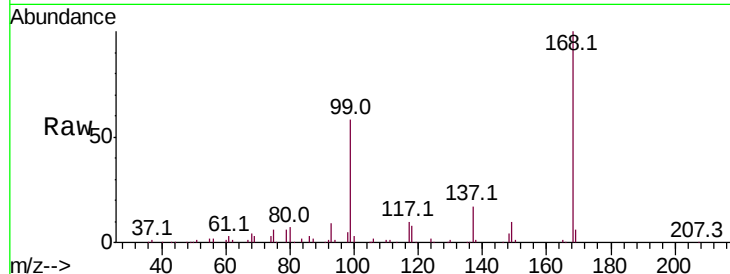




#31  
Cyclohexane  
Concen: 1.600 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: VD067924.D  
Acq: 09 Dec 2020 13:25

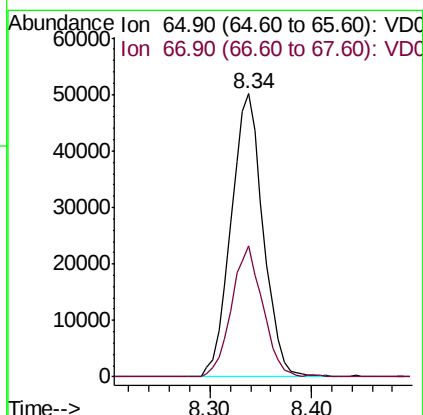
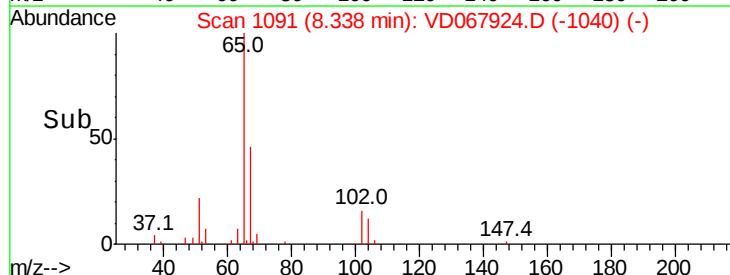
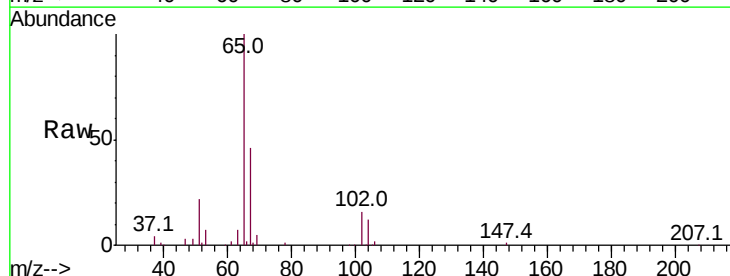
Instrument :  
MSVOA\_D  
ClientSampleID :  
TR3-D-BOTTOM

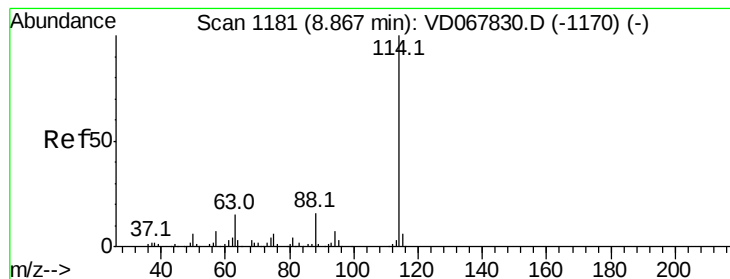
Tot Ion: 56 Resp: 4030  
Ion Ratio Lower Upper  
56 100  
69 160.2 32.1 48.1#  
84 86.9 93.2 139.8#



#33  
1,2-Dichloroethane-d4  
Concen: 46.018 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. 0.00 min  
Lab File: VD067924.D  
Acq: 09 Dec 2020 13:25

Tgt Ion: 65 Resp: 110019  
Ion Ratio Lower Upper  
65 100  
67 44.8 0.0 92.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067924.D

Acq: 09 Dec 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

TR3-D-BOTTOM

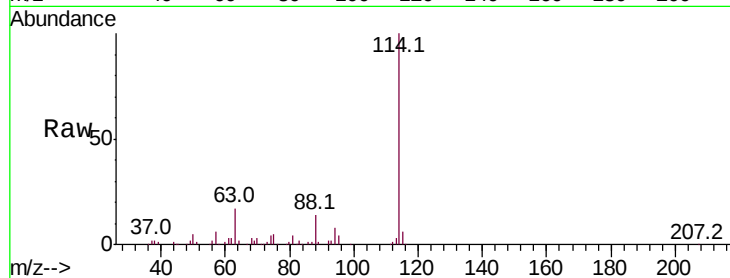
Tot Ion:114 Resp: 314633

Ion Ratio Lower Upper

114 100

63 16.6 0.0 30.8

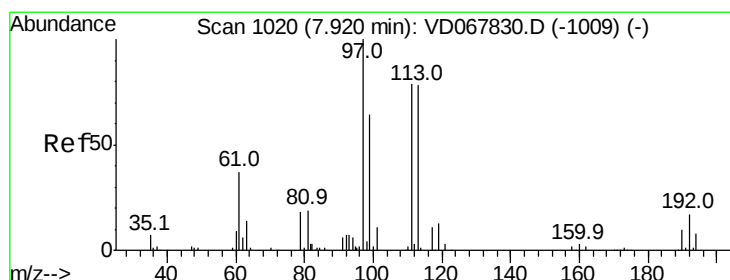
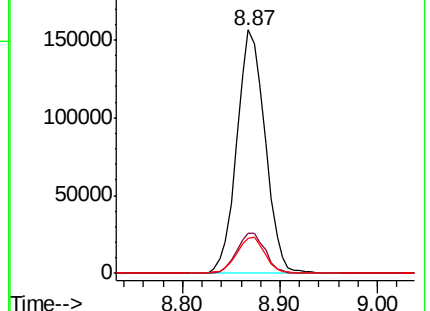
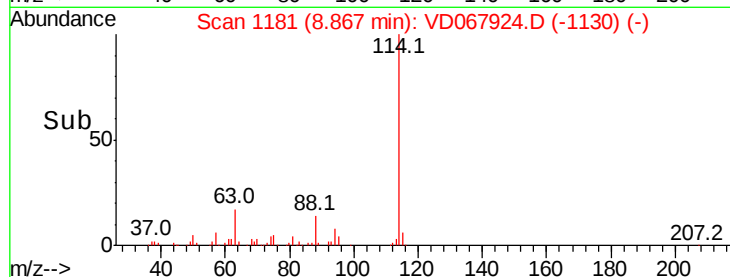
88 14.2 0.0 31.8



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: 43.254 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067924.D

Acq: 09 Dec 2020 13:25

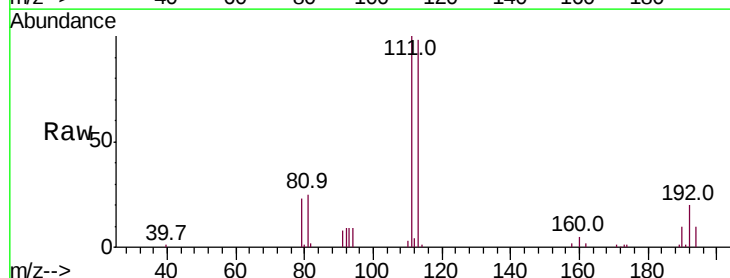
Tgt Ion:113 Resp: 91065

Ion Ratio Lower Upper

113 100

111 103.0 81.2 121.8

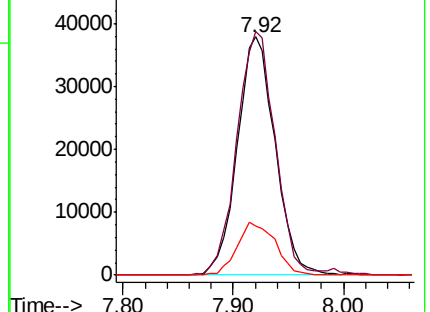
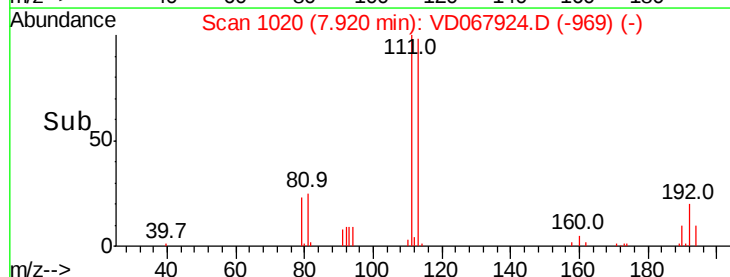
192 22.2 16.8 25.2

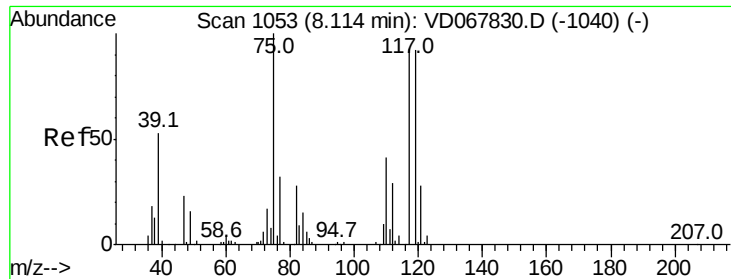


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.432 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067924.D

Acq: 09 Dec 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

TR3-D-BOTTOM

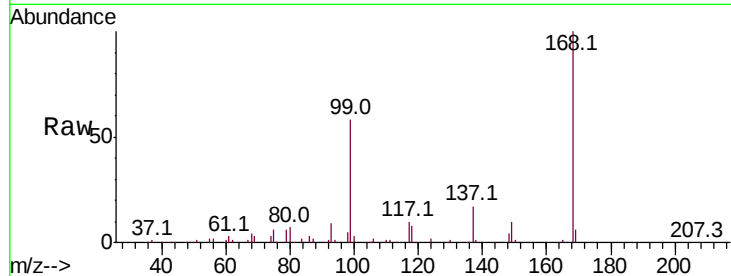
Tot Ion: 75 Resp: 14796

Ion Ratio Lower Upper

75 100

110 14.1 20.3 61.0#

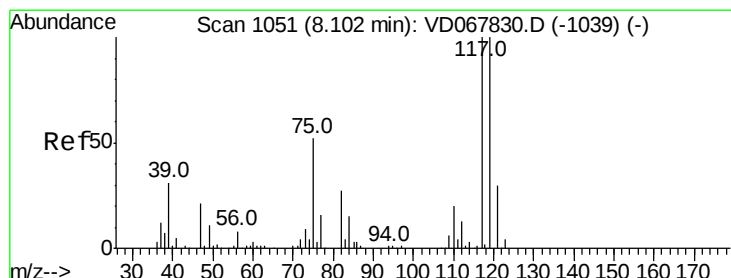
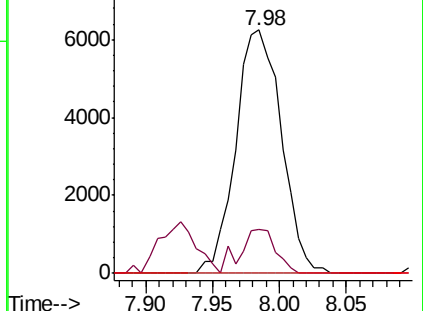
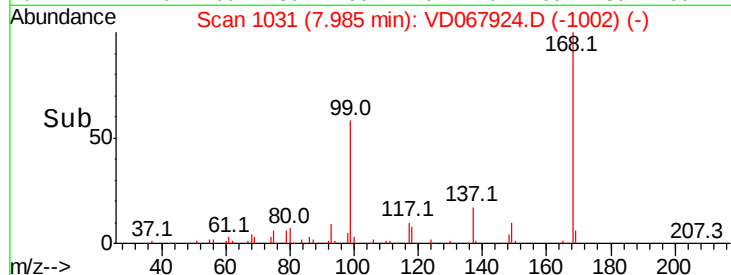
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 5.596 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD067924.D

Acq: 09 Dec 2020 13:25

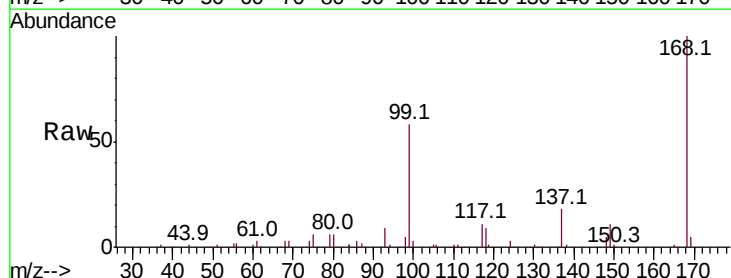
Tgt Ion: 117 Resp: 23061

Ion Ratio Lower Upper

117 100

119 6.5 79.7 119.5#

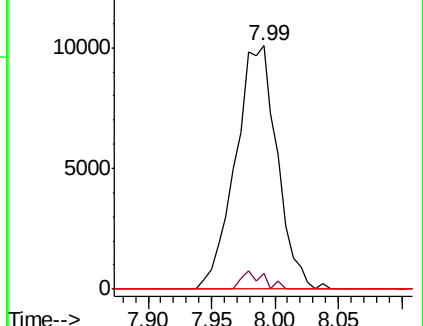
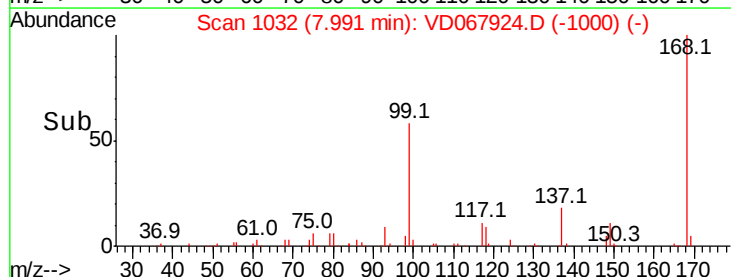
121 0.0 23.8 35.6#

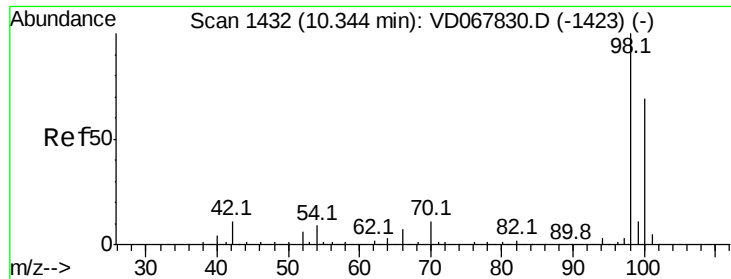


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

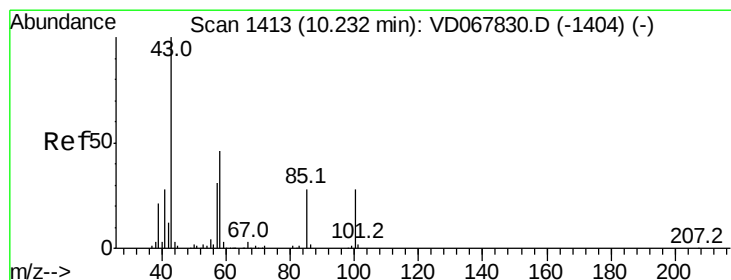
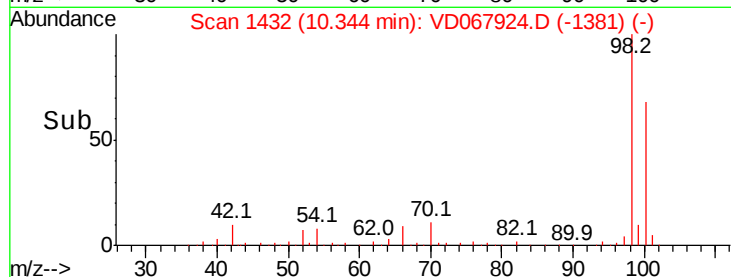
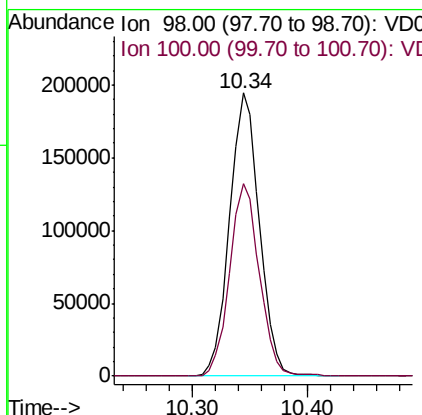
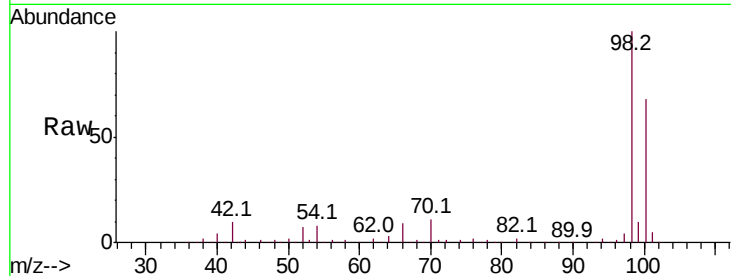




#50  
Toluene-d8  
Concen: 45.860 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD067924.D  
Acq: 09 Dec 2020 13:25

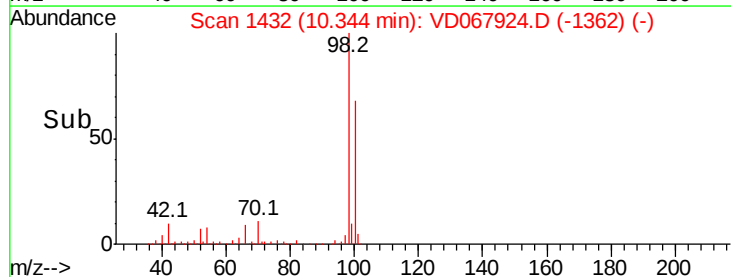
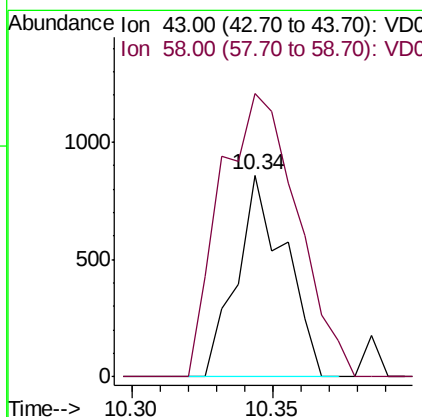
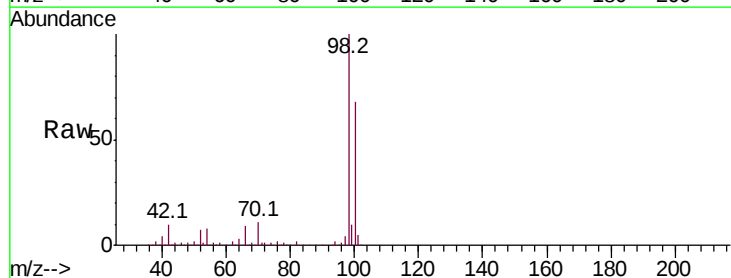
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR3-D-BOTTOM

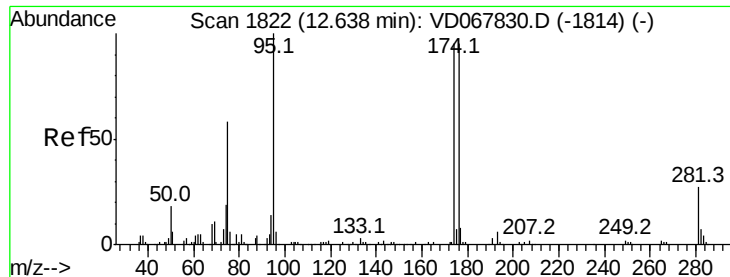
Tot Ion: 98 Resp: 347570  
Ion Ratio Lower Upper  
98 100  
100 68.1 52.9 79.3



#51  
4-Methyl-2-Pentanone  
Concen: 1.499 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.11 min  
Lab File: VD067924.D  
Acq: 09 Dec 2020 13:25

Tgt Ion: 43 Resp: 1025  
Ion Ratio Lower Upper  
43 100  
58 222.8 35.7 53.5#

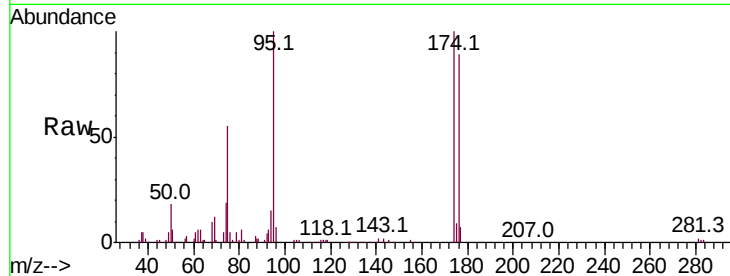




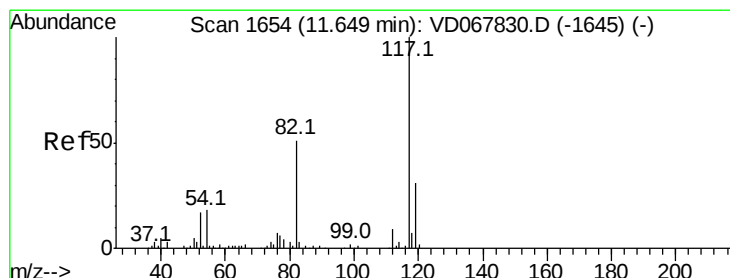
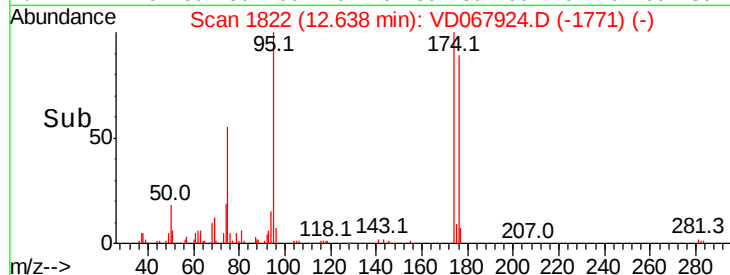
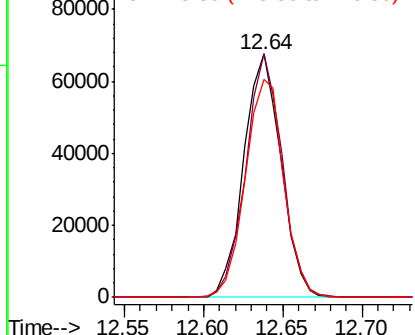
#62  
4-Bromofluorobenzene  
Concen: 42.122 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD067924.D  
Acq: 09 Dec 2020 13:25

Instrument :  
MSVOA\_D  
ClientSampleId :  
TR3-D-BOTTOM

Tot Ion: 95 Resp: 110368  
Ion Ratio Lower Upper  
95 100  
174 97.6 0.0 186.0  
176 92.1 0.0 184.2

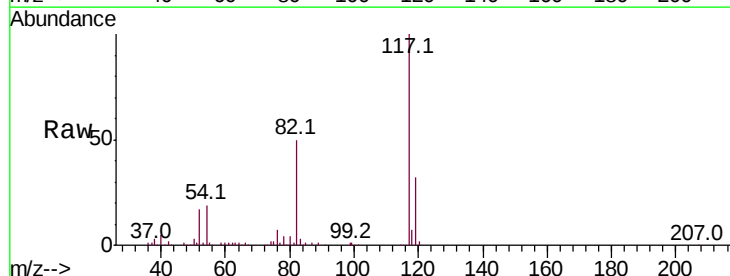


Abundance Ion 94.90 (94.60 to 95.60): V  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

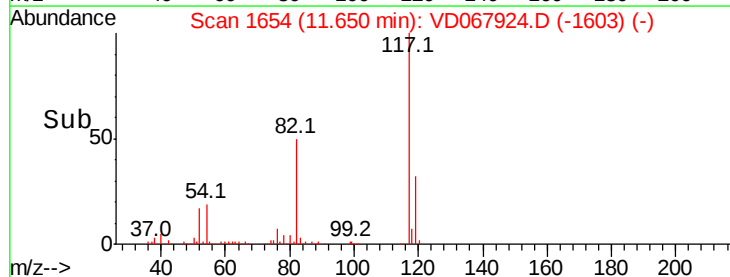
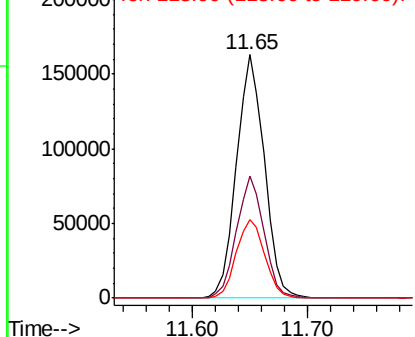


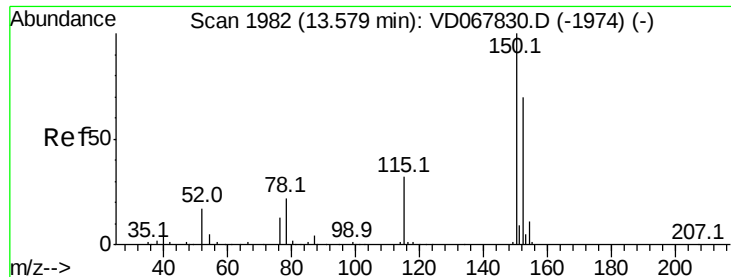
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067924.D  
Acq: 09 Dec 2020 13:25

Tgt Ion: 117 Resp: 272486  
Ion Ratio Lower Upper  
117 100  
82 50.1 40.6 60.8  
119 32.3 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: VD067924.D

Acq: 09 Dec 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

TR3-D-BOTTOM

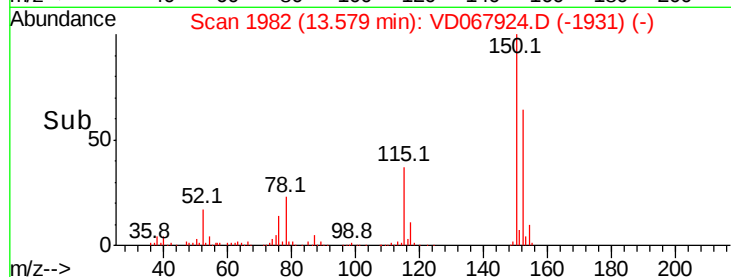
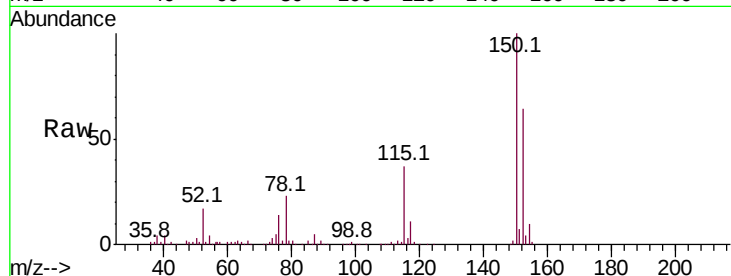
Tot Ion:152 Resp: 135420

Ion Ratio Lower Upper

152 100

115 57.3 29.1 87.4

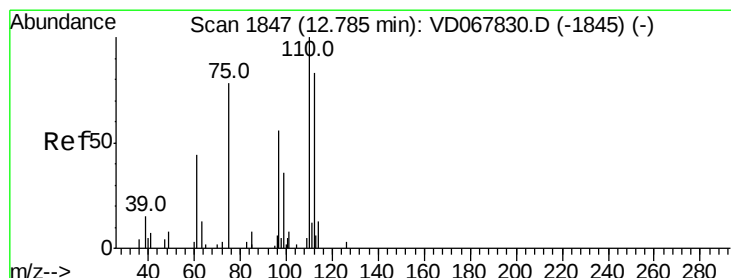
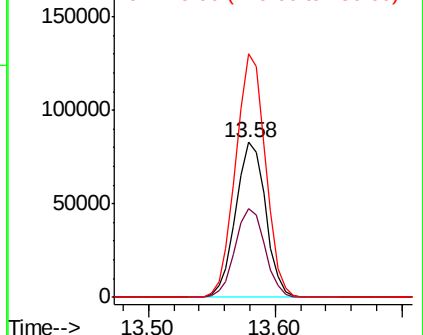
150 156.6 0.0 339.0



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: 65.791 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067924.D

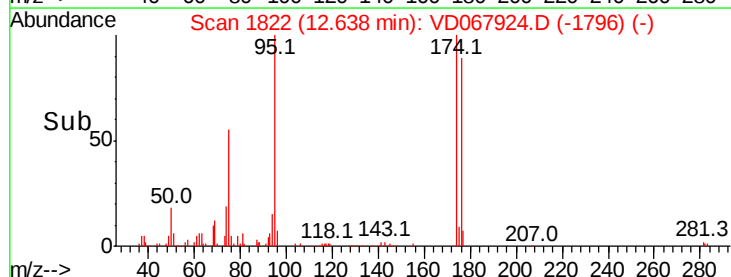
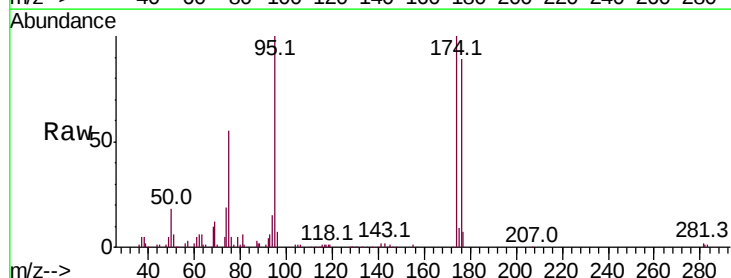
Acq: 09 Dec 2020 13:25

Tgt Ion: 75 Resp: 64881

Ion Ratio Lower Upper

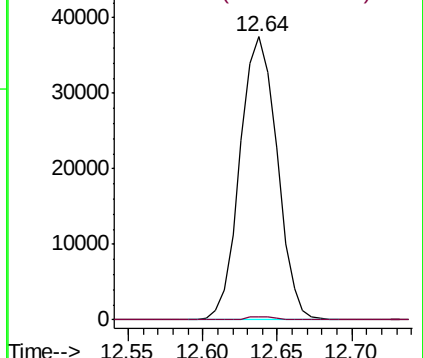
75 100

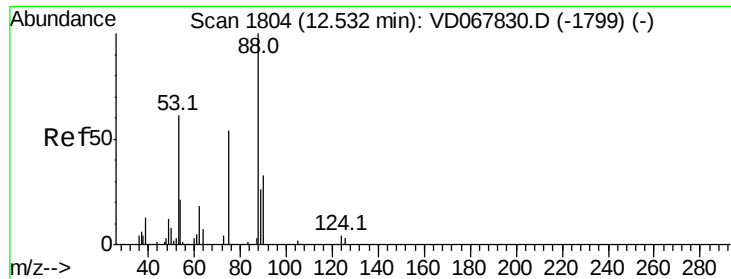
77 0.9 175.9 527.7#



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: 157.378 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067924.D

Acq: 09 Dec 2020 13:25

Instrument :

MSVOA\_D

ClientSampleId :

TR3-D-BOTTOM

Tot Ion: 75 Resp: 64881

Ion Ratio Lower Upper

75 100

53 0.1 84.6 127.0#

89 0.0 41.0 61.6#

