

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120220\  
 Data File : VD067854.D  
 Acq On : 02 Dec 2020 23:40  
 Operator : VA/SY  
 Sample : L4909-02  
 Misc : 5.05G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ROCK-HILL-SLOPE-EMBANKMENT-

Quant Time: Dec 03 00:37:42 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  | 60868    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 86108    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 84757    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 45012    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65    | 44615    | 68.28    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 136.56% |
| 35) Dibromofluoromethane  | 7.92   | 113   | 30982    | 53.77    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 107.54% |
| 50) Toluene-d8            | 10.34  | 98    | 102527   | 49.43    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 98.86%  |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 35431    | 49.41    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 98.82%  |

## Target Compounds

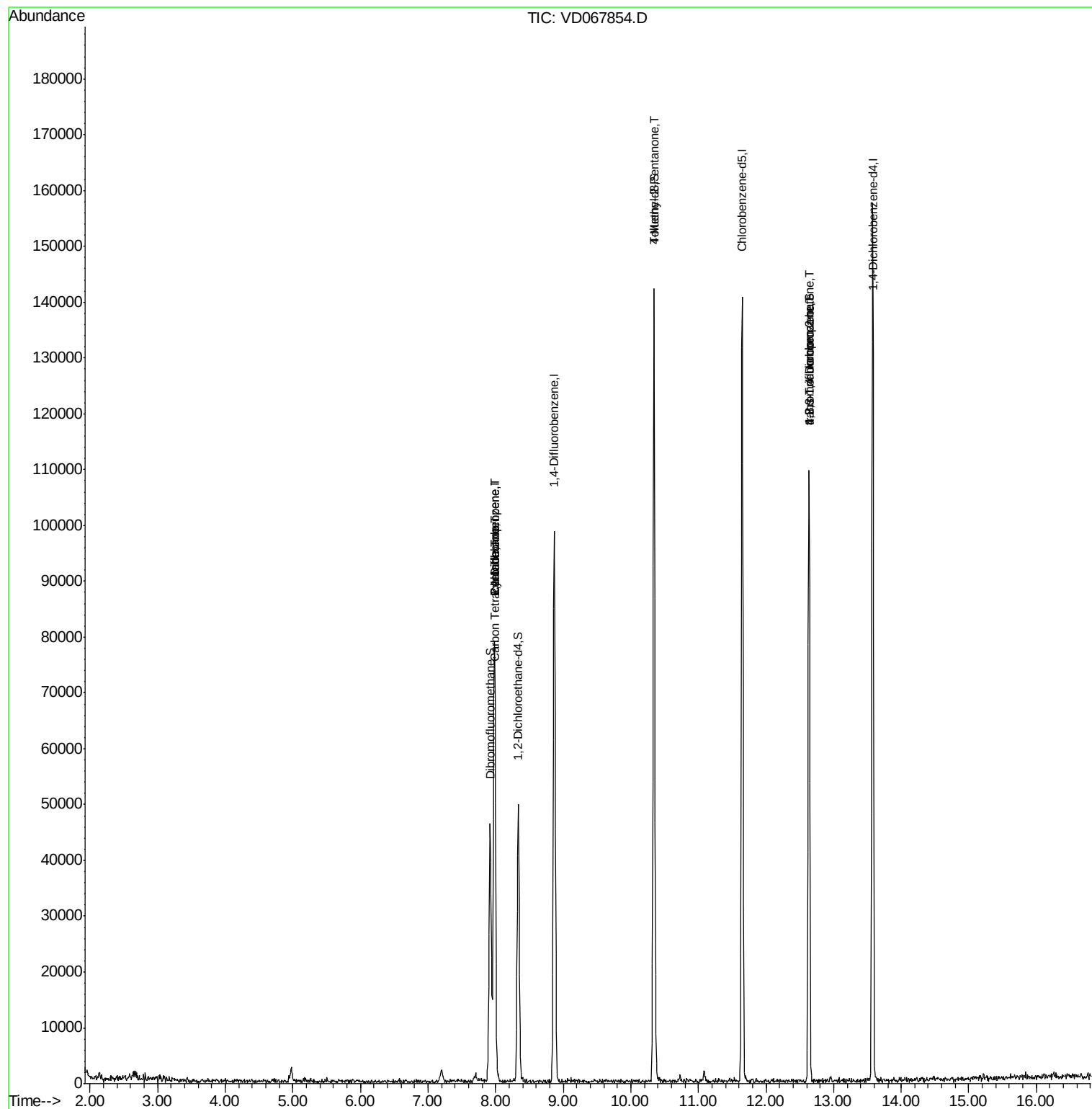
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 20) Methylene Chloride         | 4.98  | 84  | 1716  | Below Cal    | # 62   |
| 31) Cyclohexane                | 7.99  | 56  | 1527  | 2.218 ug/l   | # 11   |
| 36) 1,1-Dichloropropene        | 7.98  | 75  | 4197  | 5.630 ug/l   | # 51   |
| 38) Carbon Tetrachloride       | 8.00  | 117 | 6214  | 5.510 ug/l   | # 10   |
| 51) 4-Methyl-2-Pentanone       | 10.35 | 43  | 209   | 1.117 ug/l   | # 1    |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 17463 | 53.275 ug/l  | # 1    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 17463 | 127.438 ug/l | # 7    |

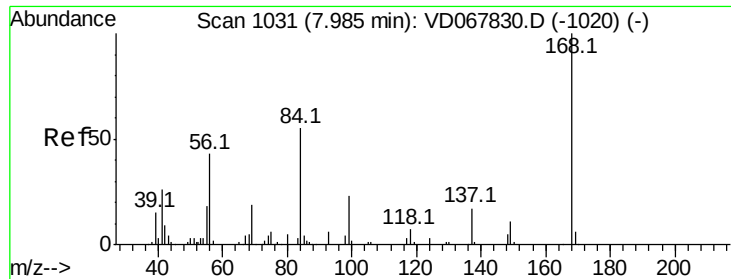
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD120220\  
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Sample : L4909-02  
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Quant Time: Dec 03 00:37:42 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: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067854.D

Acq: 02 Dec 2020 23:40

Instrument :

MSVOA\_D

ClientSampleId :

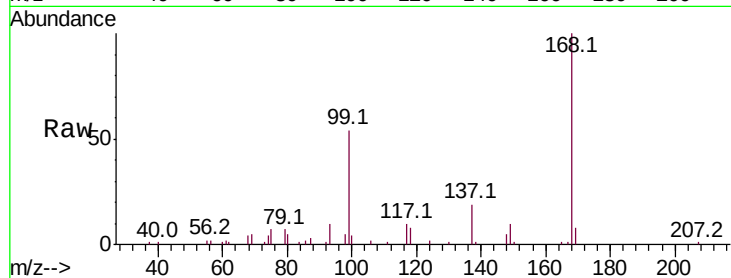
ROCK-HILL-SLOPE-EMBANKMENT-

Tot Ion:168 Resp: 60868

Ion Ratio Lower Upper

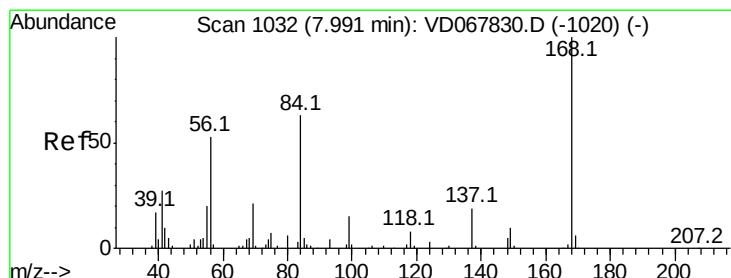
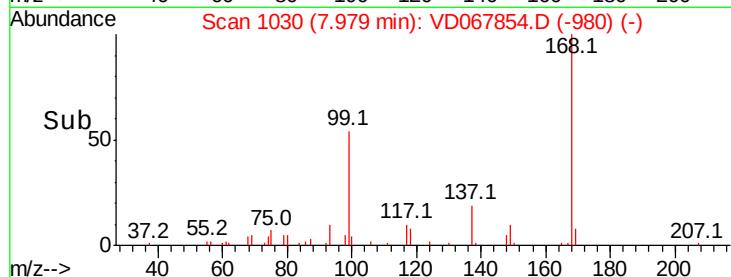
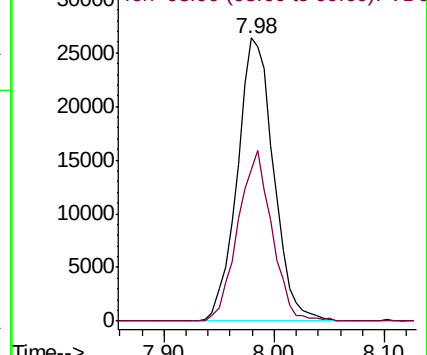
168 100

99 53.7 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#31

Cyclohexane

Concen: 2.218 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.00 min

Lab File: VD067854.D

Acq: 02 Dec 2020 23:40

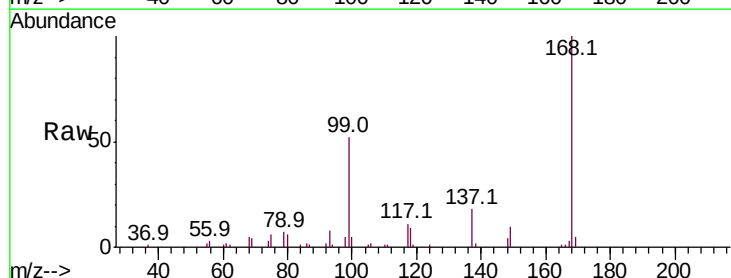
Tgt Ion: 56 Resp: 1527

Ion Ratio Lower Upper

56 100

69 134.3 32.1 48.1#

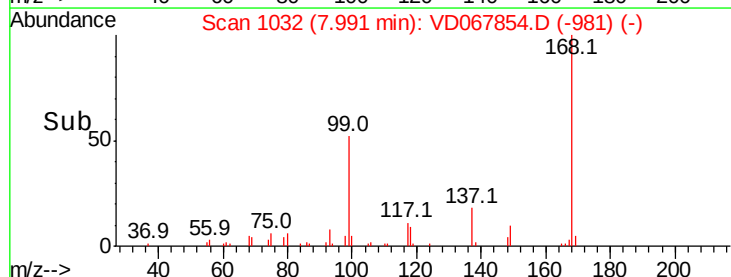
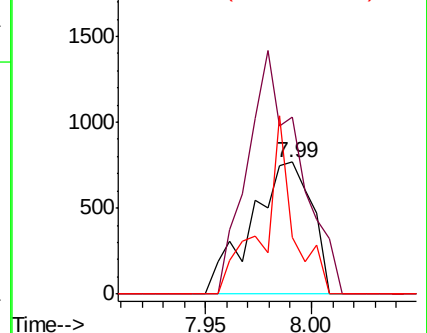
84 42.5 93.2 139.8#

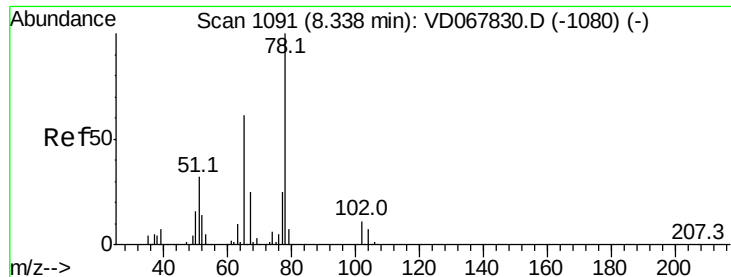


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

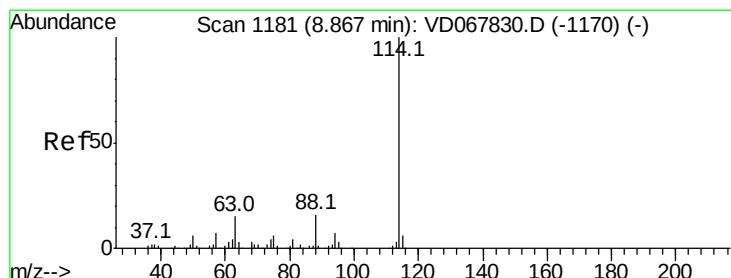
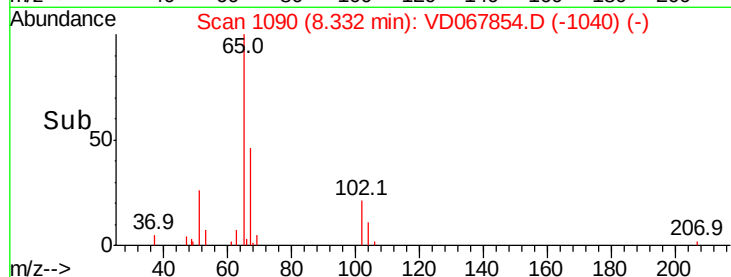
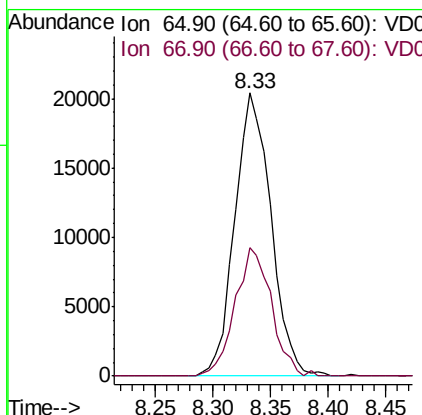
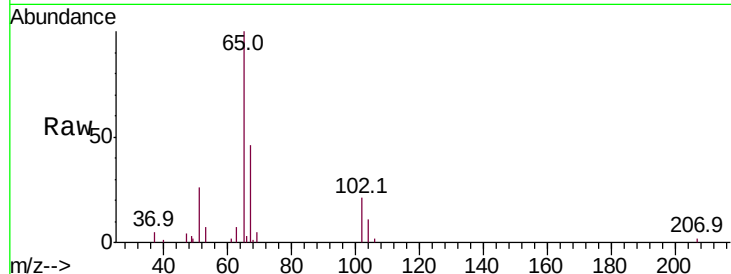




#33  
 1,2-Dichloroethane-d4  
 Concen: 68.277 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. -0.01 min  
 Lab File: VD067854.D  
 Acq: 02 Dec 2020 23:40

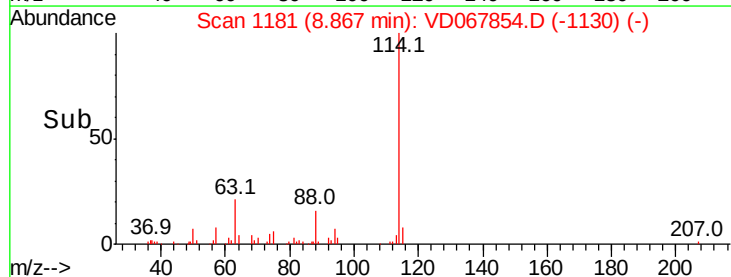
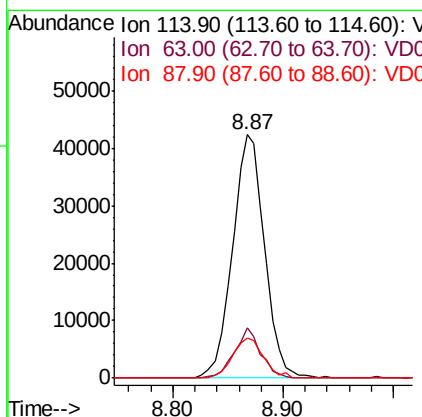
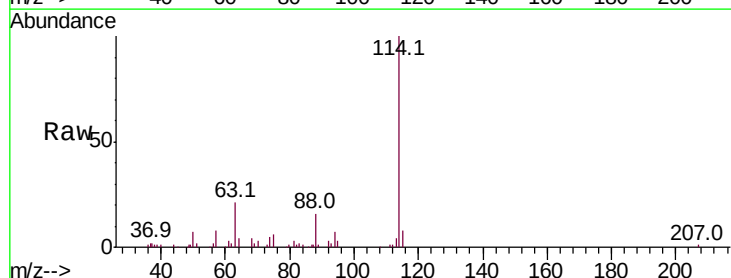
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ROCK-HILL-SLOPE-EMBANKMENT-

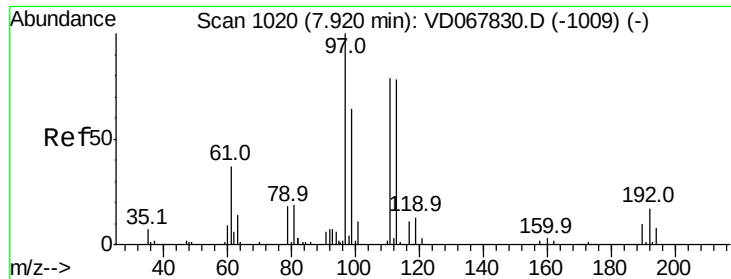
Tot Ion: 65 Resp: 44615  
 Ion Ratio Lower Upper  
 65 100  
 67 45.3 0.0 92.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD067854.D  
 Acq: 02 Dec 2020 23:40

Tgt Ion: 114 Resp: 86108  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 30.8  
 88 16.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.771 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067854.D

Acq: 02 Dec 2020 23:40

Instrument :

MSVOA\_D

ClientSampleId :

ROCK-HILL-SLOPE-EMBANKMENT-

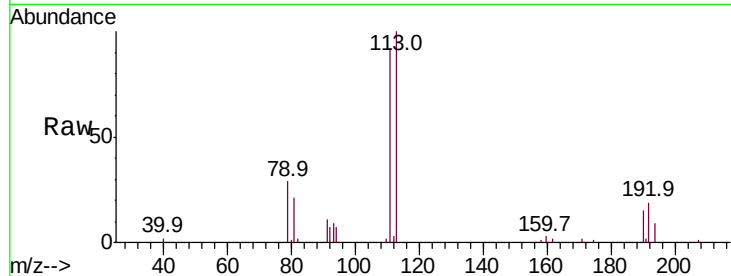
Tot Ion:113 Resp: 30982

Ion Ratio Lower Upper

113 100

111 101.9 81.2 121.8

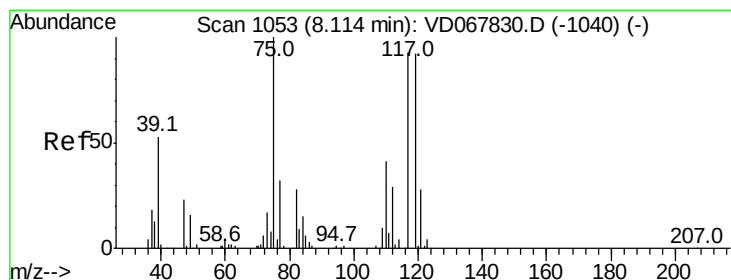
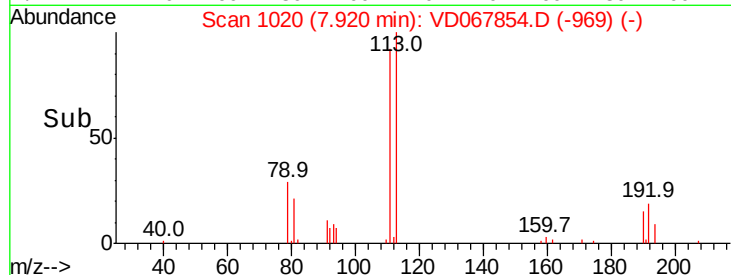
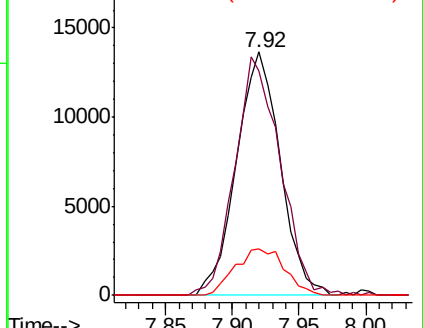
192 21.7 16.8 25.2



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: 5.630 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067854.D

Acq: 02 Dec 2020 23:40

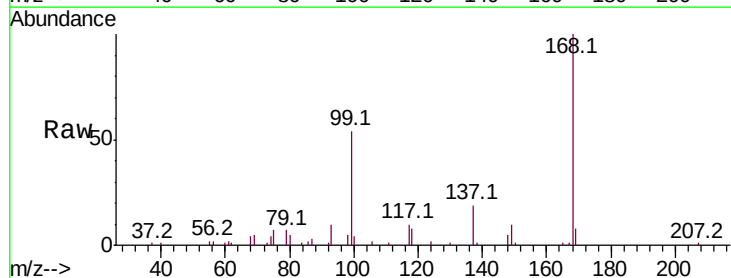
Tgt Ion: 75 Resp: 4197

Ion Ratio Lower Upper

75 100

110 14.1 20.3 61.0#

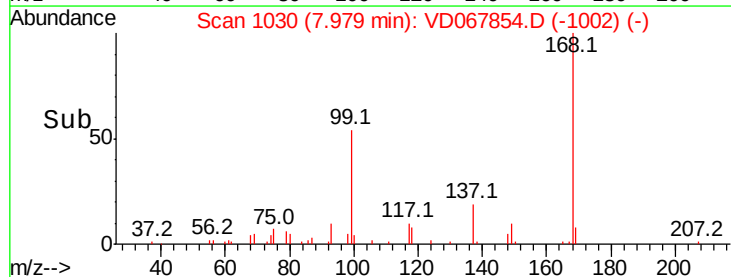
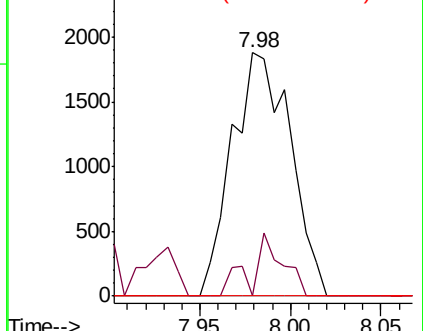
77 0.0 24.7 37.1#

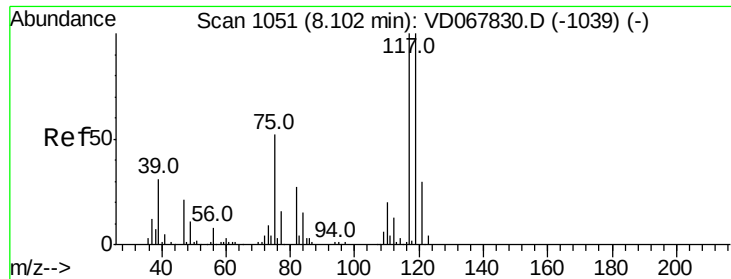


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.510 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. -0.11 min

Lab File: VD067854.D

Acq: 02 Dec 2020 23:40

Instrument :

MSVOA\_D

ClientSampleId :

ROCK-HILL-SLOPE-EMBANKMENT-

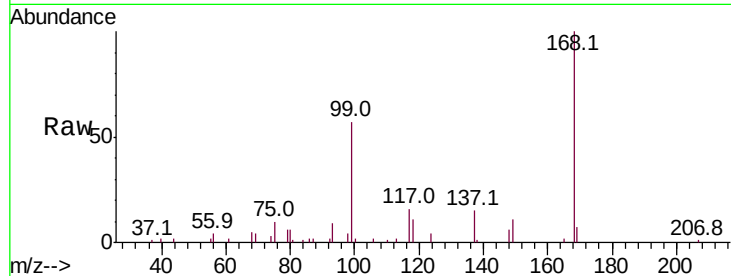
Tot Ion:117 Resp: 6214

Ion Ratio Lower Upper

117 100

119 0.0 79.7 119.5#

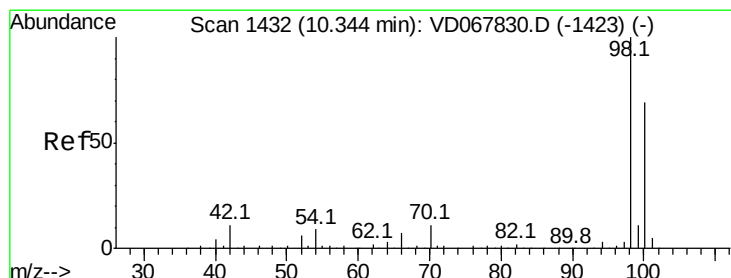
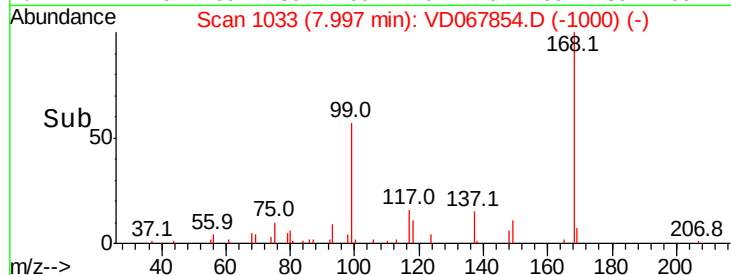
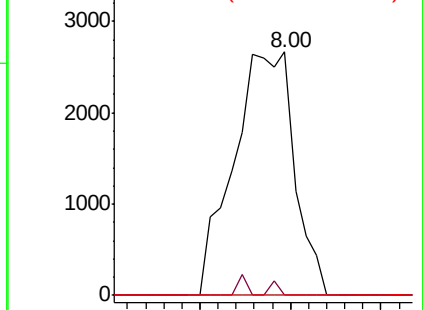
121 0.0 23.8 35.6#



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: 49.430 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067854.D

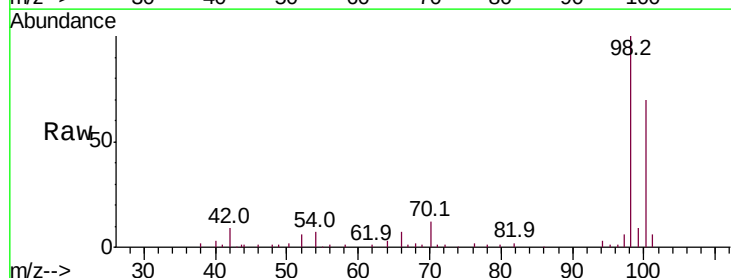
Acq: 02 Dec 2020 23:40

Tgt Ion: 98 Resp: 102527

Ion Ratio Lower Upper

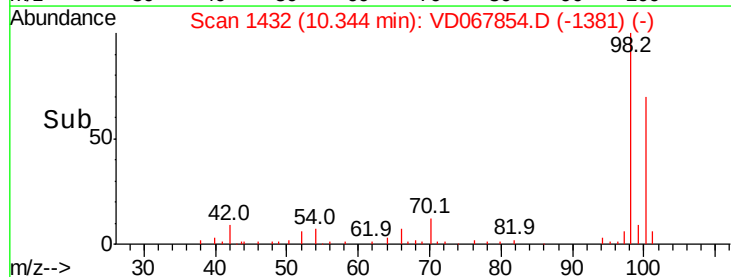
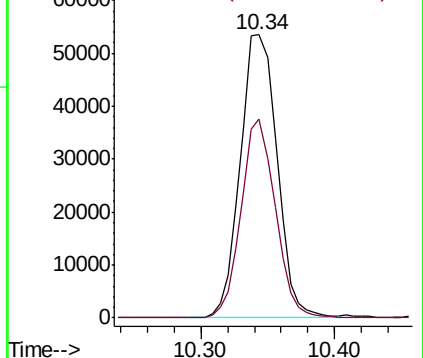
98 100

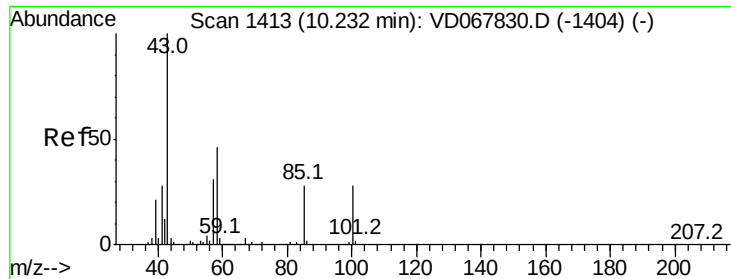
100 65.2 52.9 79.3



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: 1.117 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.12 min

Lab File: VD067854.D

Acq: 02 Dec 2020 23:40

Instrument :

MSVOA\_D

ClientSampleId :

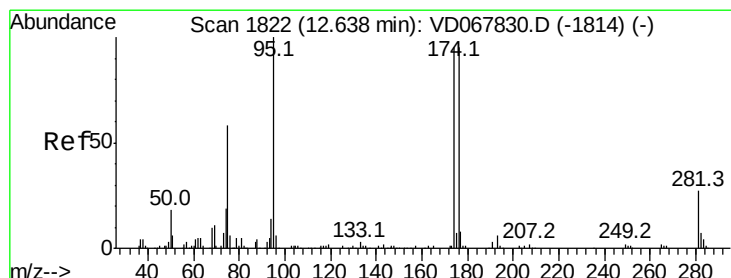
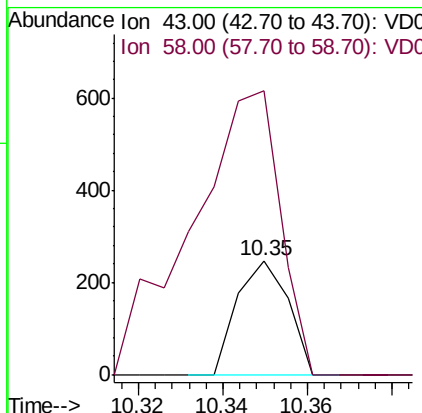
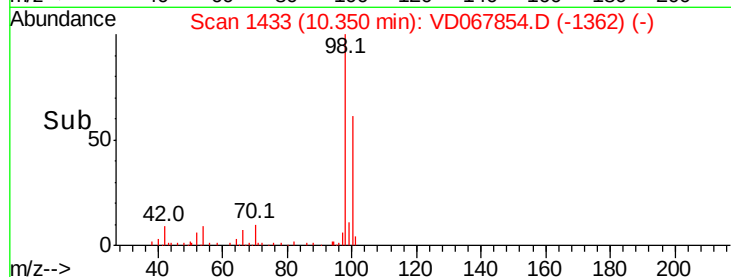
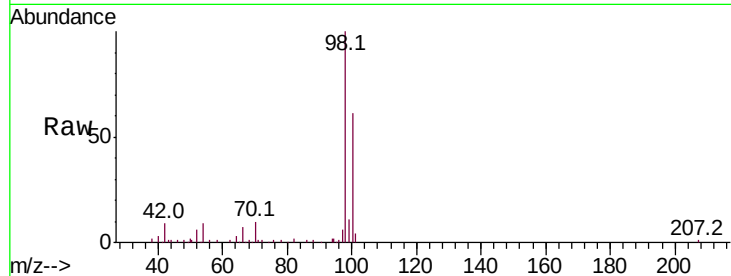
ROCK-HILL-SLOPE-EMBANKMENT-

Tot Ion: 43 Resp: 209

Ion Ratio Lower Upper

43 100

58 431.1 35.7 53.5#



#62

4-Bromofluorobenzene

Concen: 49.409 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067854.D

Acq: 02 Dec 2020 23:40

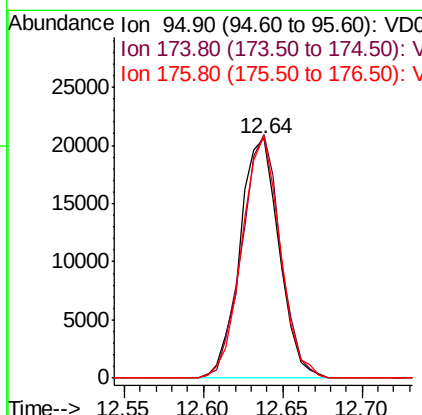
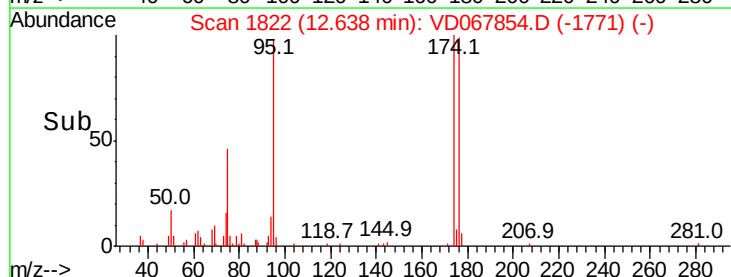
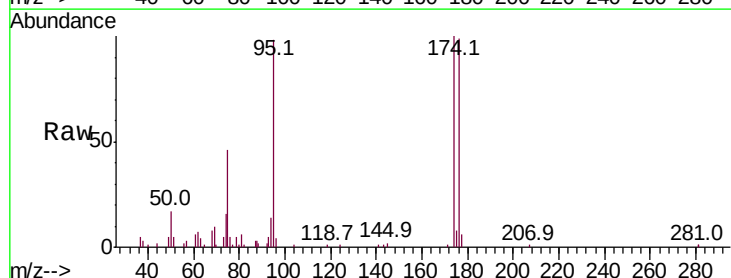
Tgt Ion: 95 Resp: 35431

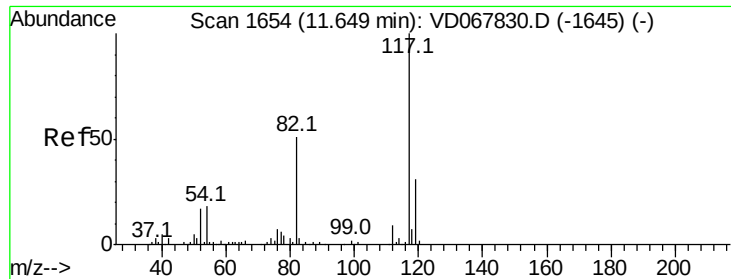
Ion Ratio Lower Upper

95 100

174 99.7 0.0 186.0

176 98.4 0.0 184.2

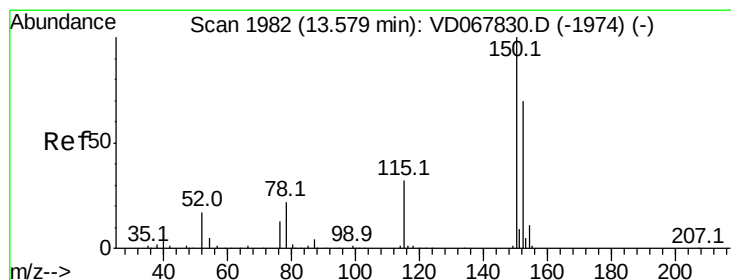
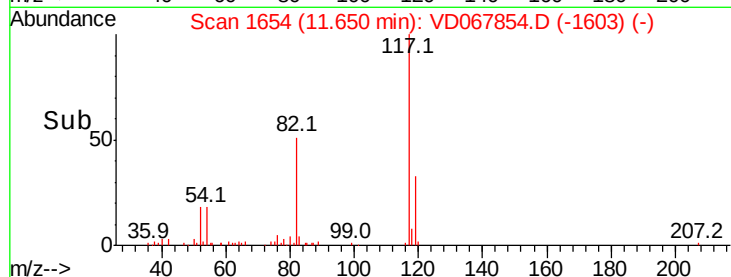
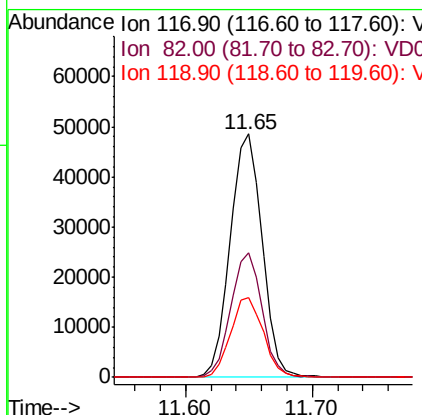
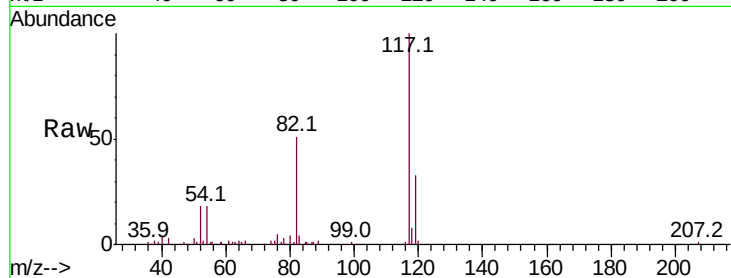




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067854.D  
Acq: 02 Dec 2020 23:40

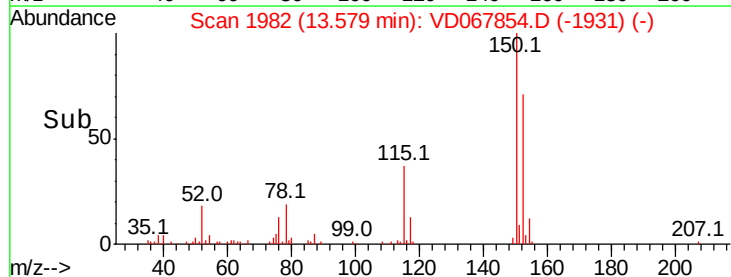
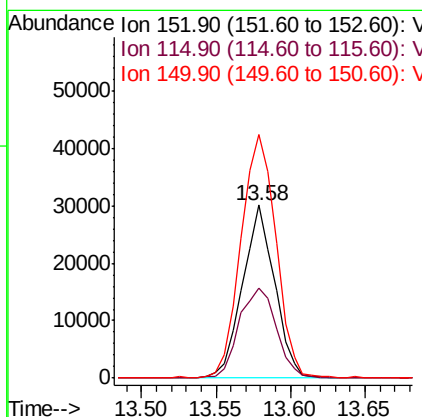
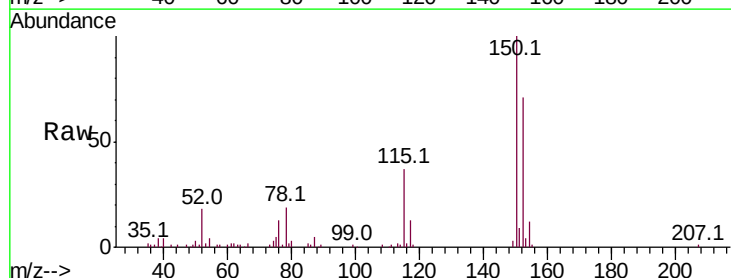
Instrument :  
MSVOA\_D  
ClientSampleId :  
ROCK-HILL-SLOPE-EMBANKMENT-

Tot Ion:117 Resp: 84757  
Ion Ratio Lower Upper  
117 100  
82 50.9 40.6 60.8  
119 32.6 25.1 37.7

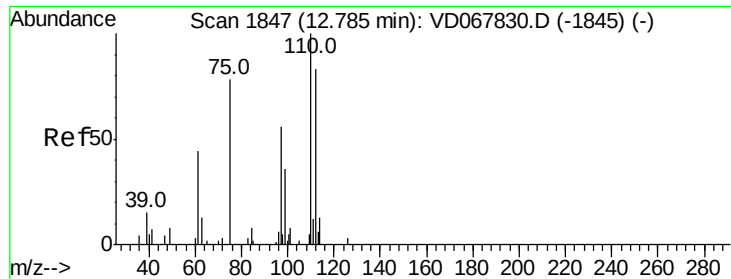


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067854.D  
Acq: 02 Dec 2020 23:40

Tgt Ion:152 Resp: 45012  
Ion Ratio Lower Upper  
152 100  
115 60.2 29.1 87.4  
150 153.0 0.0 339.0







#76

1,2,3-Trichloropropane

Concen: 53.275 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067854.D

Acq: 02 Dec 2020 23:40

Instrument :

MSVOA\_D

ClientSampleId :

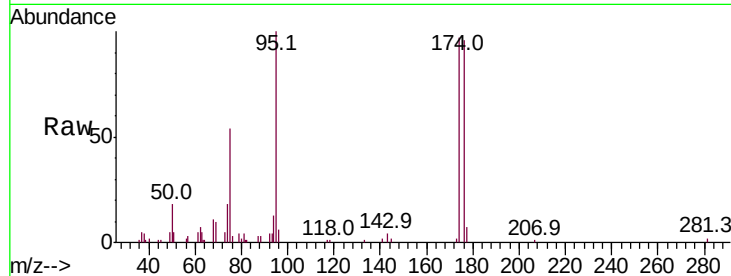
ROCK-HILL-SLOPE-EMBANKMENT-

Tot Ion: 75 Resp: 17463

Ion Ratio Lower Upper

75 100

77 1.2 175.9 527.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12000

10000

8000

6000

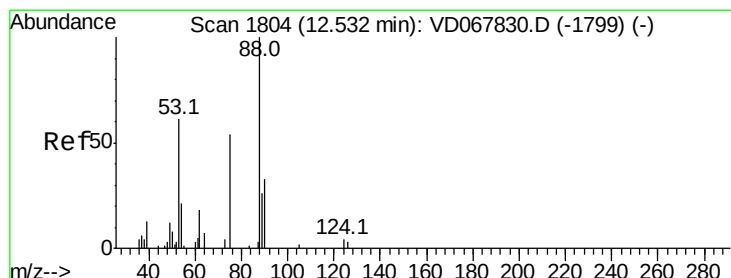
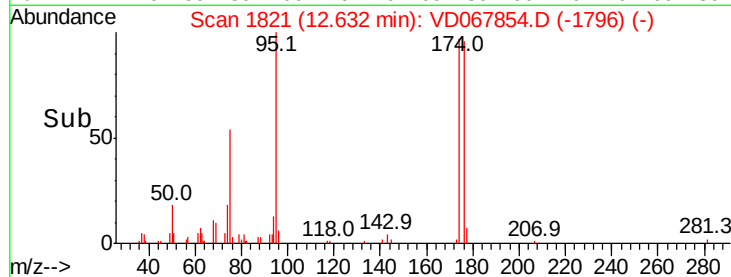
4000

2000

0

12.55 12.60 12.65 12.70

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 127.438 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD067854.D

Acq: 02 Dec 2020 23:40

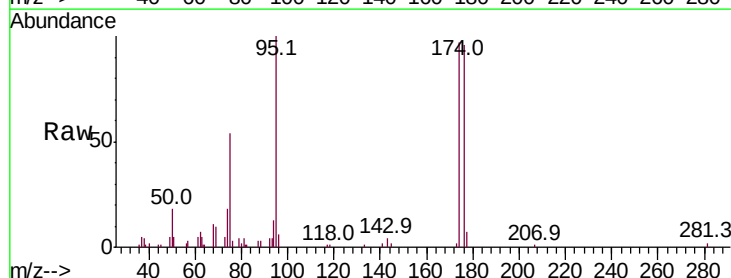
Tgt Ion: 75 Resp: 17463

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

89 0.0 41.0 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

10000

5000

0

12.55 12.60 12.65 12.70

Time-->

