

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112520\  
 Data File : VD067795.D  
 Acq On : 25 Nov 2020 18:54  
 Operator : VA/SY  
 Sample : L4857-01RE  
 Misc : 4.10G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 304EM-STOCKPILERE

Quant Time: Nov 26 02:53:38 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  | 160495   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 254073   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 205171   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 71041    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65    | 98336    | 63.02    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 126.04% |
| 35) Dibromofluoromethane  | 7.92   | 113   | 87243    | 53.96    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 107.92% |
| 50) Toluene-d8            | 10.34  | 98    | 269374   | 45.57    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 91.14%  |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 67547    | 33.43    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 66.86%  |

## Target Compounds

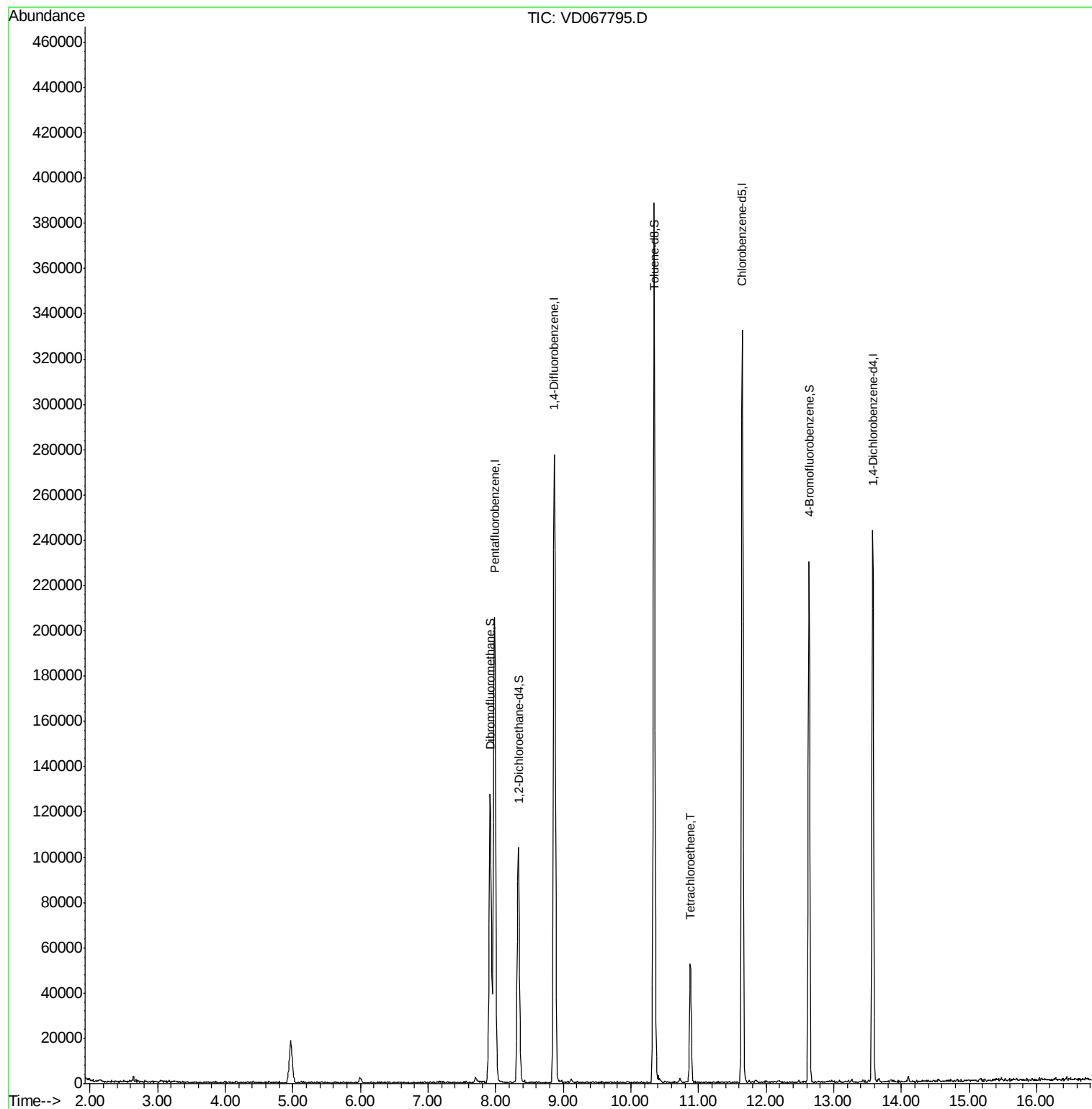
|                       | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|-----------------------|-------|------|----------|-------|-------|--------|
| 64) Tetrachloroethene | 10.88 | 164  | 13188    | 8.282 | ug/l  | 89     |

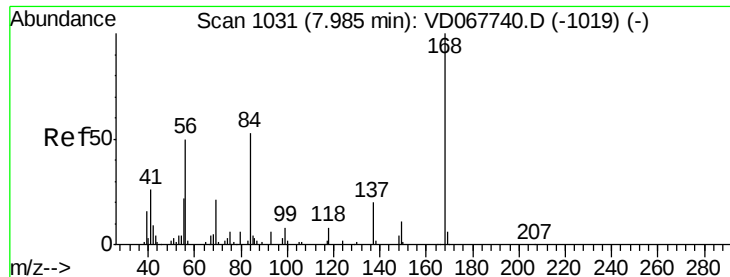
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 24 00:51:35 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: VD067795.D

Acq: 25 Nov 2020 18:54

Instrument :

MSVOA\_D

ClientSampleId :

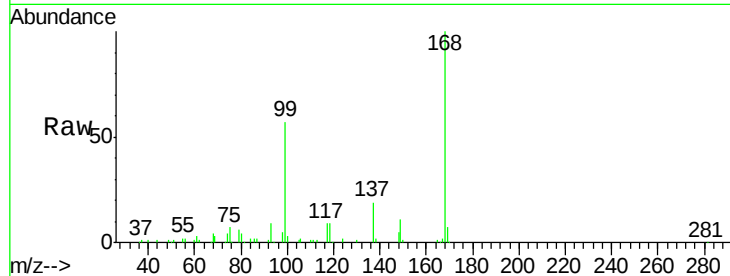
304EM-STOCKPILERE

Tot Ion:168 Resp: 160495

Ion Ratio Lower Upper

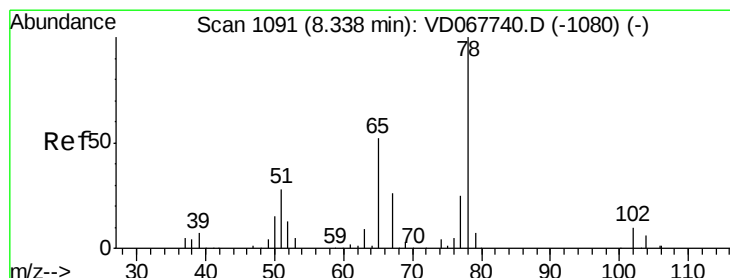
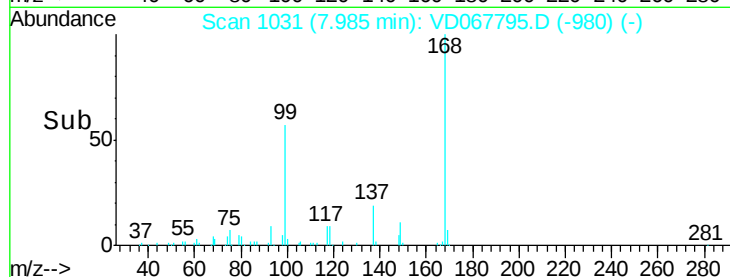
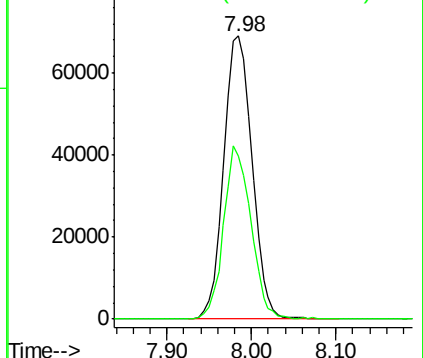
168 100

99 57.4 43.8 65.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#33

1,2-Dichloroethane-d4

Concen: 63.015 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD067795.D

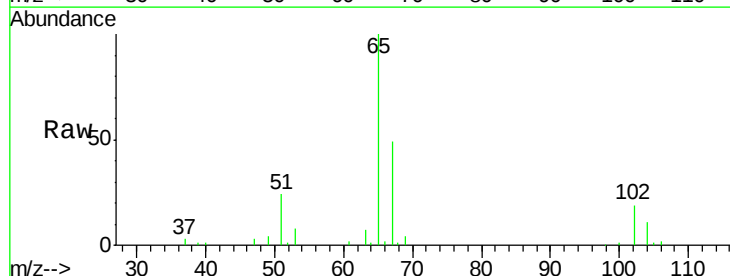
Acq: 25 Nov 2020 18:54

Tgt Ion: 65 Resp: 98336

Ion Ratio Lower Upper

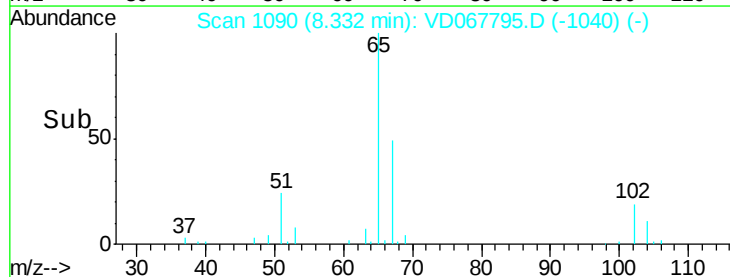
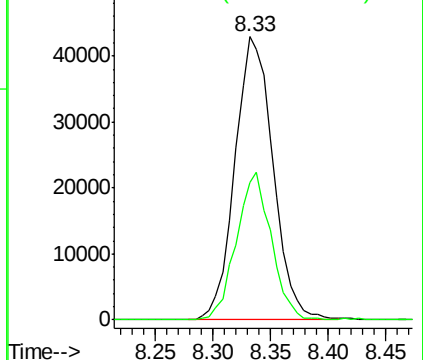
65 100

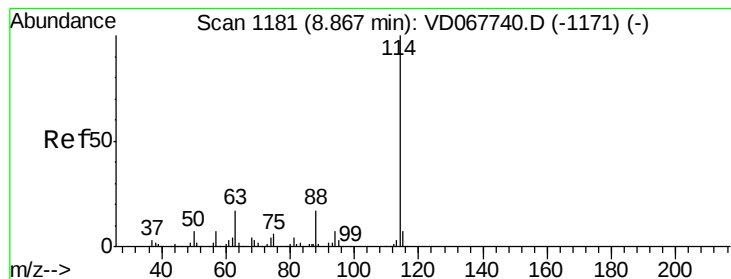
67 47.8 0.0 101.0



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: VD067795.D

Acq: 25 Nov 2020 18:54

Instrument :

MSVOA\_D

ClientSampleId :

304EM-STOCKPILERE

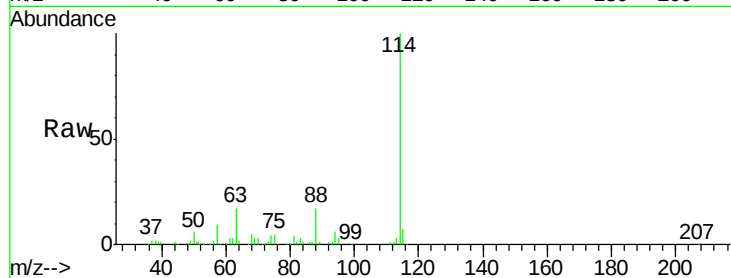
Tot Ion:114 Resp: 254073

Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.8

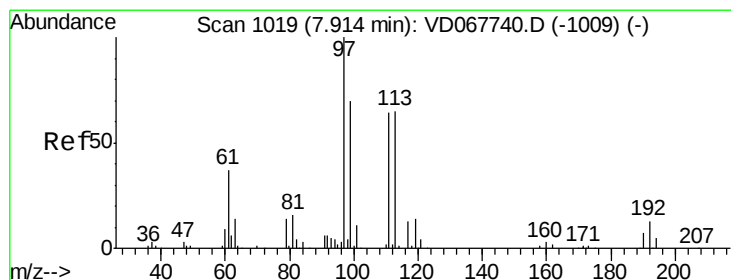
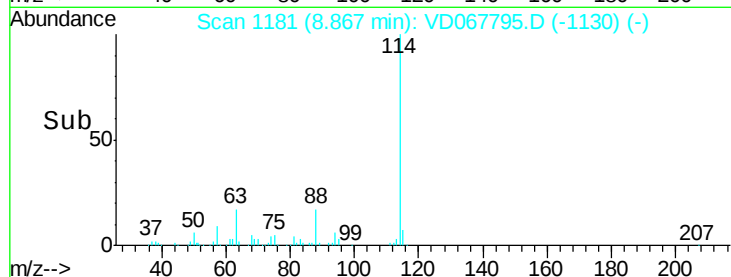
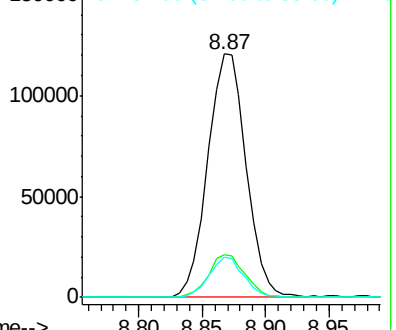
88 16.7 0.0 34.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 53.956 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067795.D

Acq: 25 Nov 2020 18:54

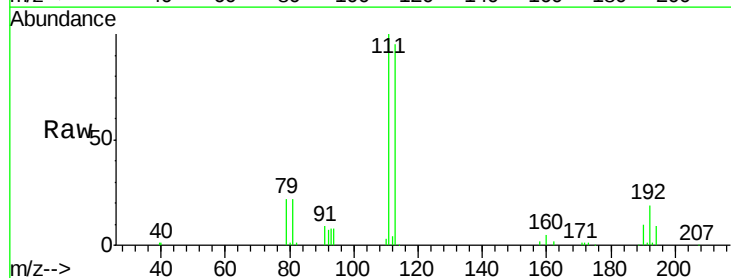
Tgt Ion:113 Resp: 87243

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

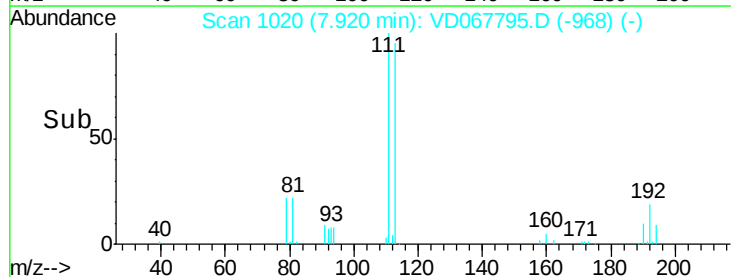
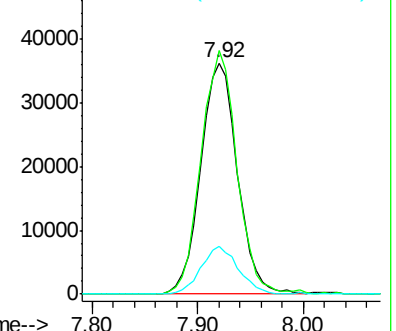
192 20.9 17.0 25.4

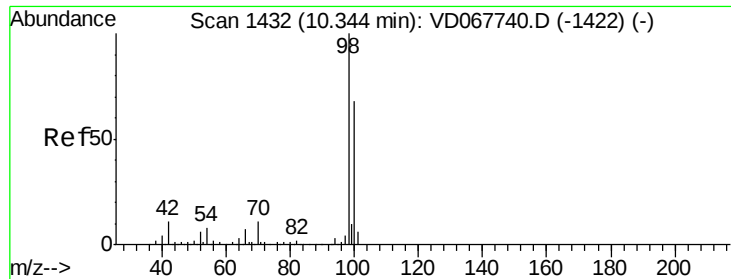


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 45.567 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD067795.D

Acq: 25 Nov 2020 18:54

Instrument :

MSVOA\_D

ClientSampleId :

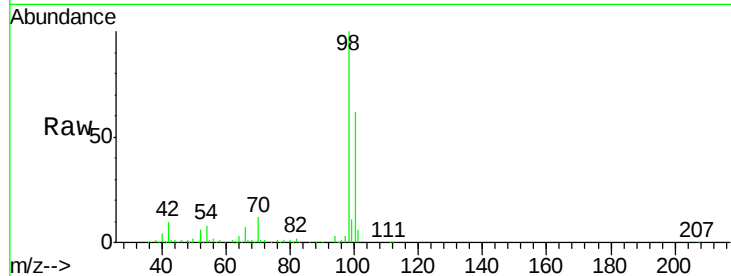
304EM-STOCKPILERE

Tot Ion: 98 Resp: 269374

Ion Ratio Lower Upper

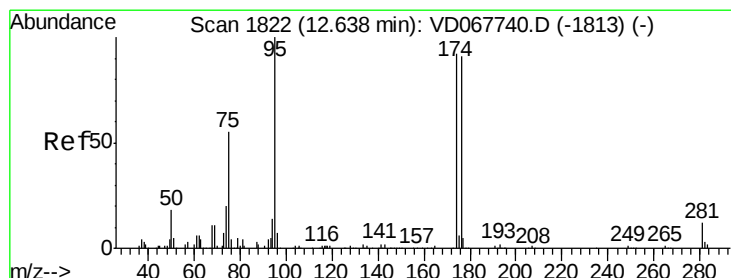
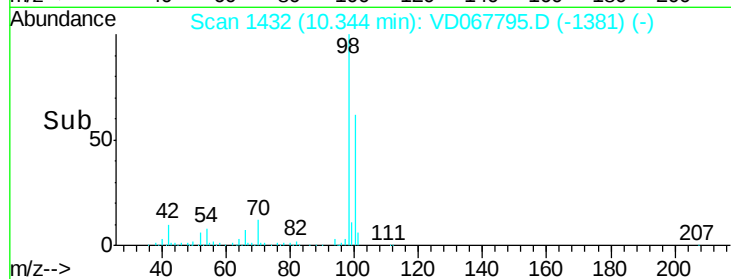
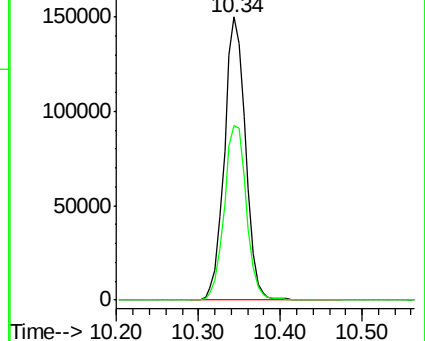
98 100

100 64.7 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 33.429 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067795.D

Acq: 25 Nov 2020 18:54

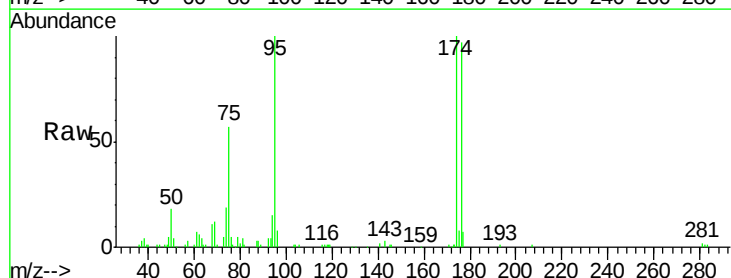
Tgt Ion: 95 Resp: 67547

Ion Ratio Lower Upper

95 100

174 101.7 0.0 182.4

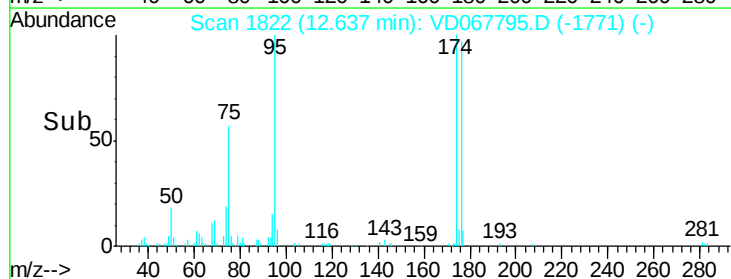
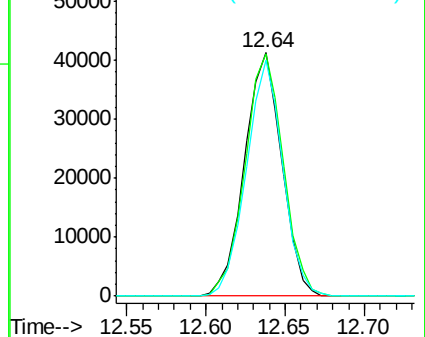
176 94.7 0.0 178.2

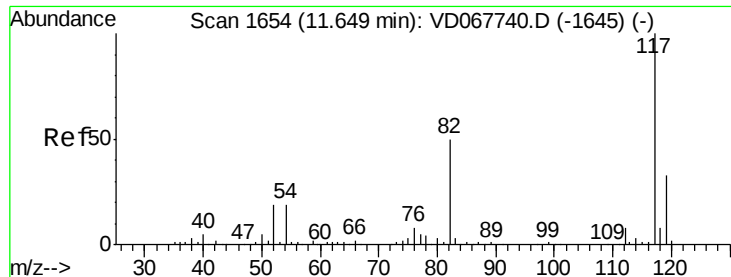


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

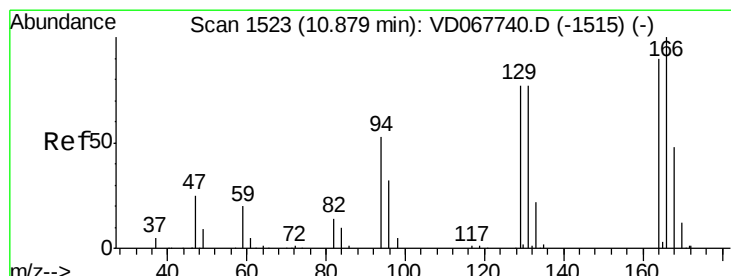
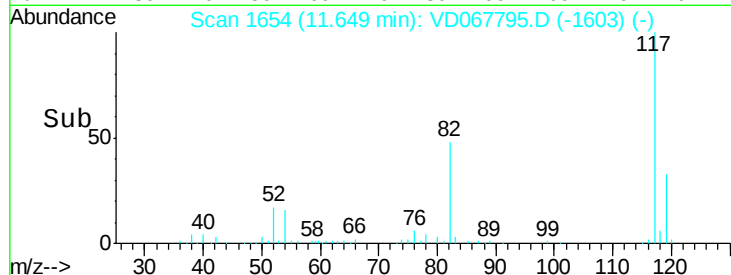
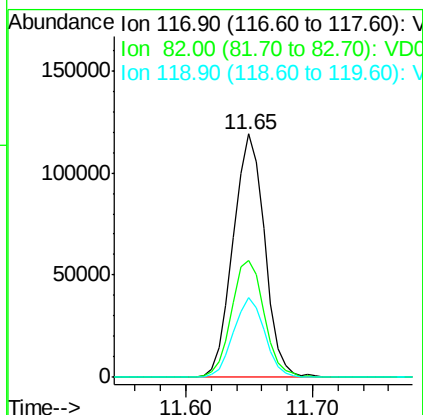
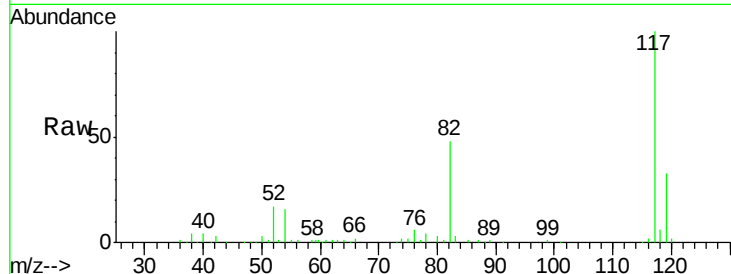




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD067795.D  
Acq: 25 Nov 2020 18:54

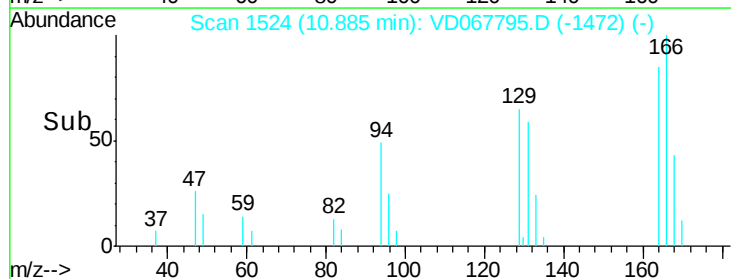
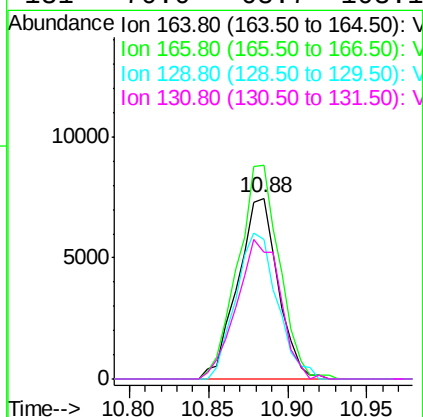
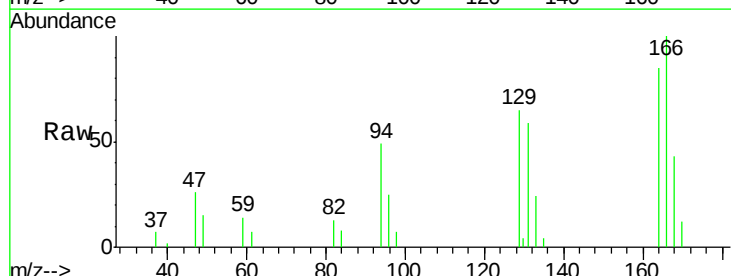
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304EM-STOCKPILERE

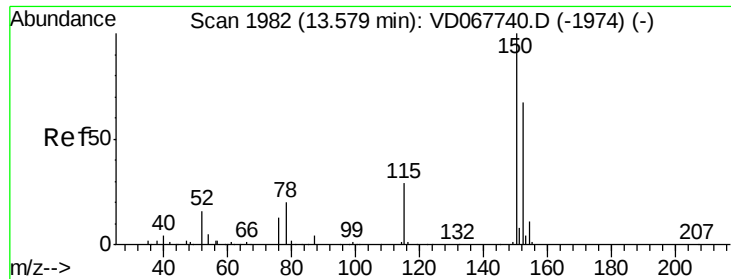
Tot Ion:117 Resp: 205171  
Ion Ratio Lower Upper  
117 100  
82 48.2 40.2 60.4  
119 32.8 26.5 39.7



#64  
Tetrachloroethene  
Concen: 8.282 ug/l  
RT: 10.88 min Scan# 1524  
Delta R.T. 0.01 min  
Lab File: VD067795.D  
Acq: 25 Nov 2020 18:54

Tgt Ion:164 Resp: 13188  
Ion Ratio Lower Upper  
164 100  
166 117.9 89.2 133.8  
129 76.8 68.4 102.6  
131 70.0 68.7 103.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD067795.D

Acq: 25 Nov 2020 18:54

Instrument :

MSVOA\_D

ClientSampleId :

304EM-STOCKPILERE

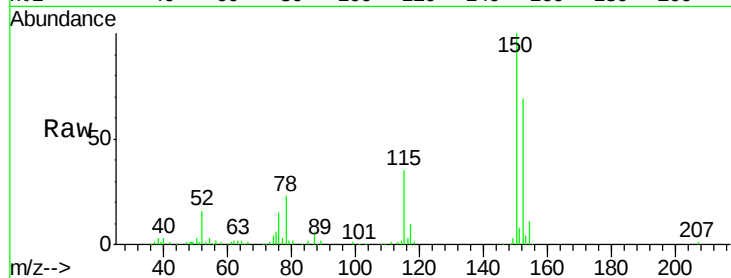
Tot Ion:152 Resp: 71041

Ion Ratio Lower Upper

152 100

115 57.1 29.4 88.3

150 156.1 0.0 340.6



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

