

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112020\  
 Data File : VD067721.D  
 Acq On : 20 Nov 2020 13:36  
 Operator : VA/SY  
 Sample : L4809-01  
 Misc : 4.99G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 21 00:38:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

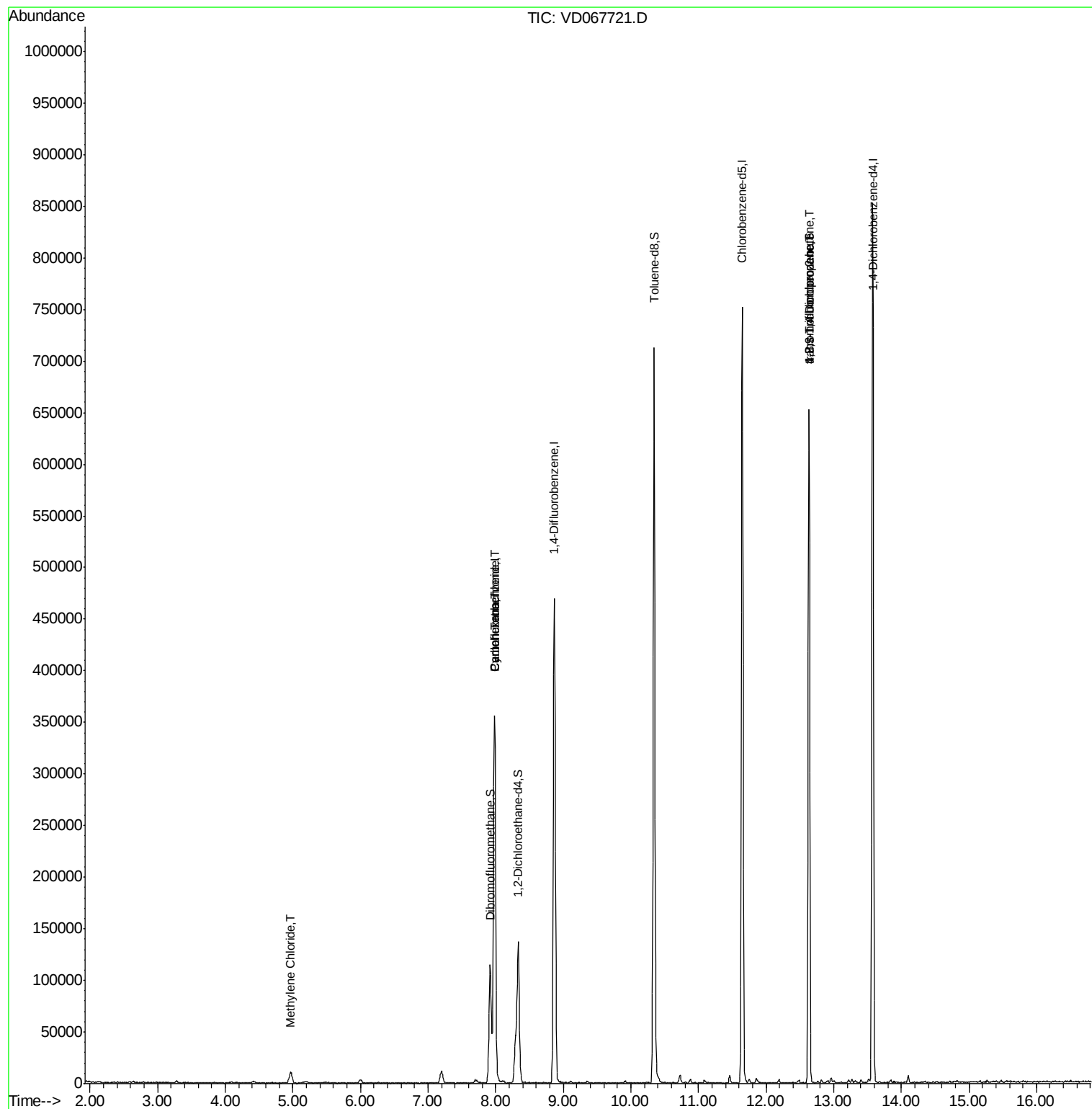
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 279715   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 419947   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 446861   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 238242   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 116914   | 47.80     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 95.60%  |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 80058    | 31.64     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 63.28%  |          |
| 50) Toluene-d8                 | 10.34 | 98   | 491442   | 55.27     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.54% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 200939   | 65.46     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 130.92% |          |
| Target Compounds               |       |      |          |           |         |          |
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 1052     | Below Cal |         | 78       |
| 11) Tert butyl alcohol         | 5.19  | 59   | 808      | Below Cal | #       | 79       |
| 20) Methylene Chloride         | 4.96  | 84   | 9475     | 3.665     | ug/l #  | 87       |
| 31) Cyclohexane                | 7.98  | 56   | 5954     | 1.678     | ug/l #  | 35       |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 27869    | 5.967     | ug/l #  | 14       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 105326   | 73.285    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 105326   | 148.788   | ug/l #  | 10       |

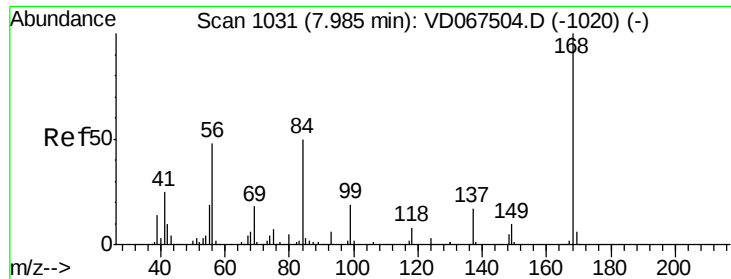
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD112020\  
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MSVOA\_D  
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Quant Time: Nov 21 00:38:50 2020  
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QLast Update : Wed Nov 04 00:56:28 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: VD067721.D

Acq: 20 Nov 2020 13:36

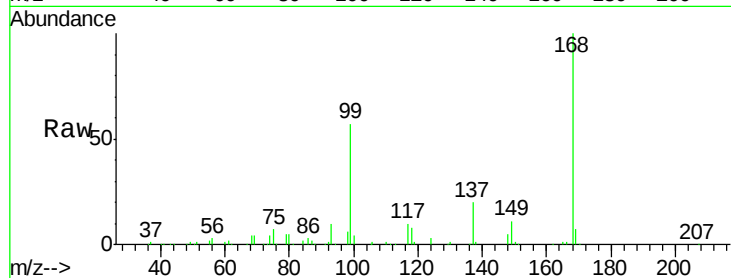
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 279715

Ion Ratio Lower Upper

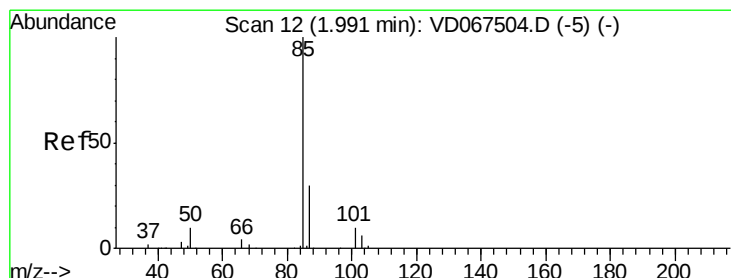
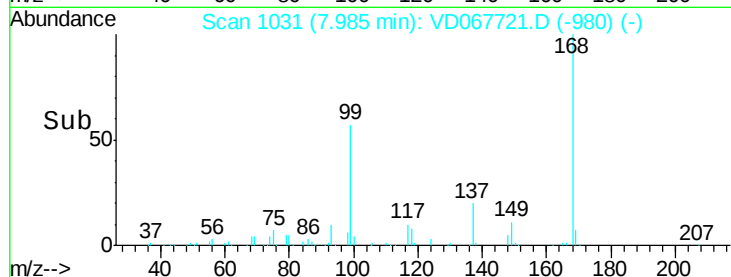
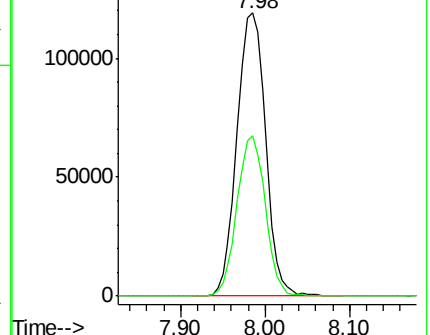
168 100

99 56.6 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD067721.D

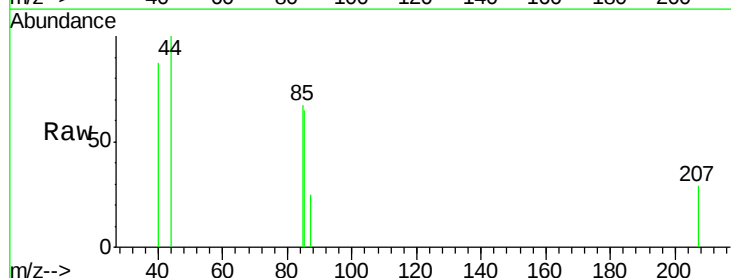
Acq: 20 Nov 2020 13:36

Tgt Ion: 85 Resp: 1052

Ion Ratio Lower Upper

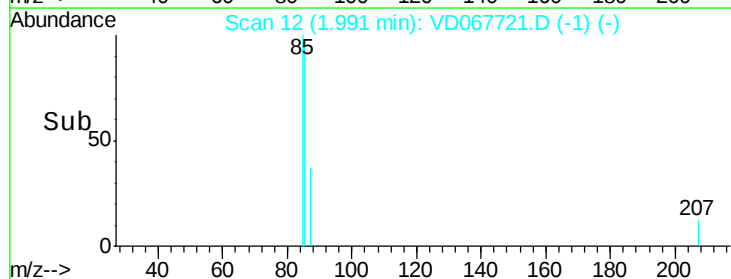
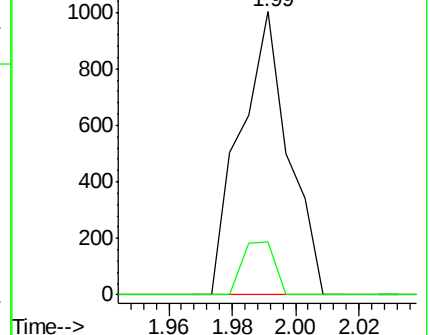
85 100

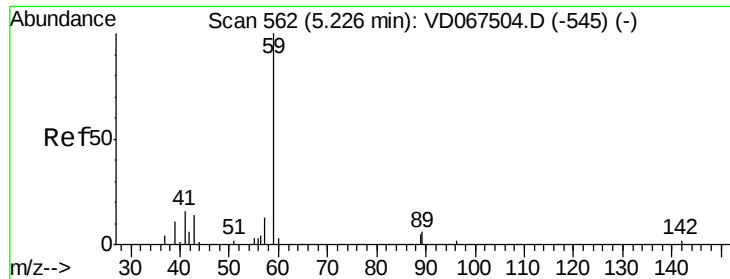
87 18.7 15.3 45.8



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

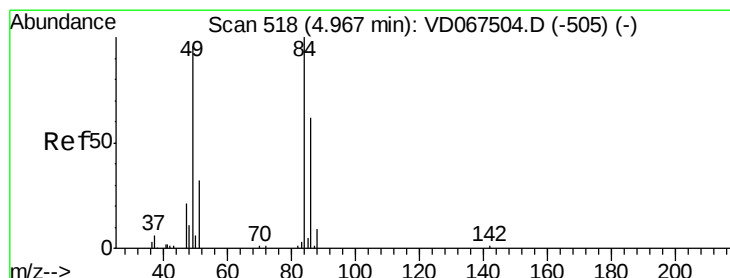
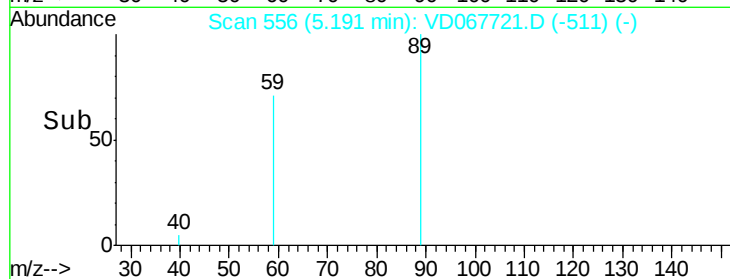
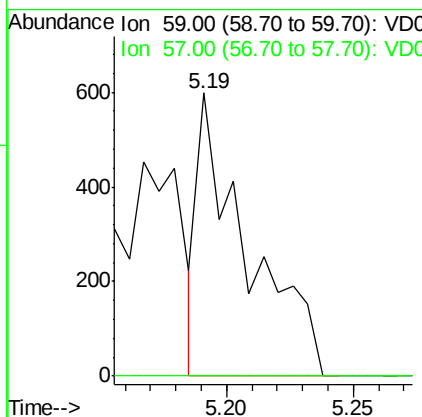
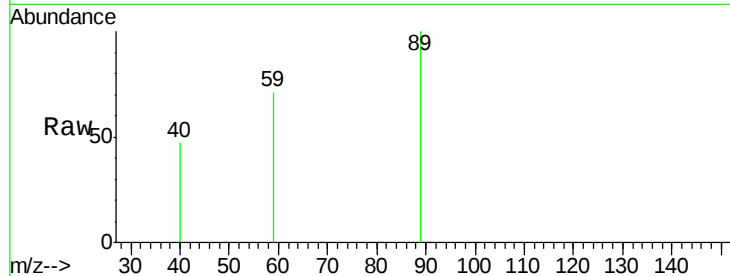




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.19 min Scan# 556  
Delta R.T. -0.04 min  
Lab File: VD067721.D  
Acq: 20 Nov 2020 13:36

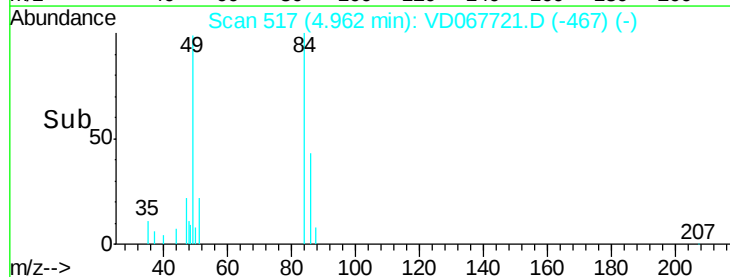
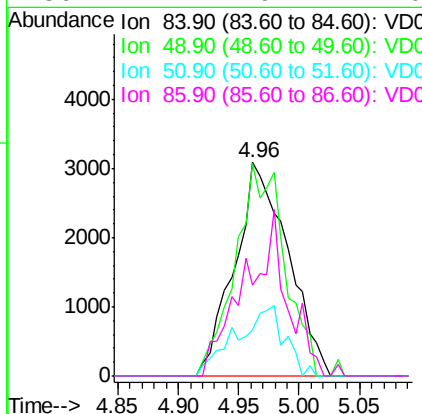
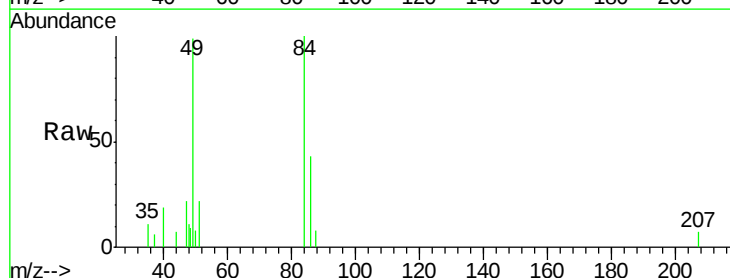
Instrument :  
MSVOA\_D  
ClientSampleId :

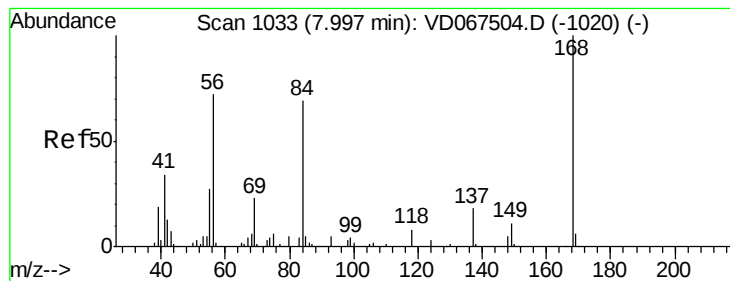
Tot Ion: 59 Resp: 808  
Ion Ratio Lower Upper  
59 100  
57 0.0 5.9 8.9#



#20  
Methylene Chloride  
Concen: 3.665 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VD067721.D  
Acq: 20 Nov 2020 13:36

Tgt Ion: 84 Resp: 9475  
Ion Ratio Lower Upper  
84 100  
49 99.3 77.0 115.4  
51 21.8 25.4 38.2#  
86 42.7 49.4 74.0#





#31

Cyclohexane

Concen: 1.678 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.02 min

Lab File: VD067721.D

Acq: 20 Nov 2020 13:36

Instrument :  
MSVOA\_D  
ClientSampled :

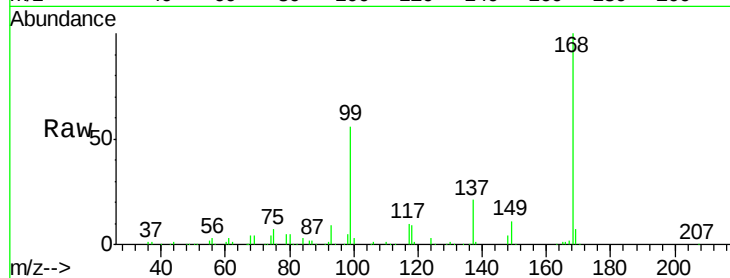
Tot Ion: 56 Resp: 5954

Ion Ratio Lower Upper

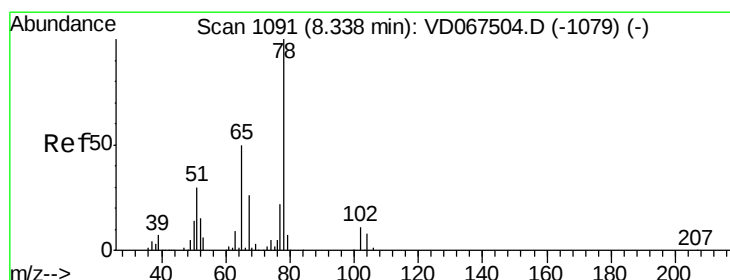
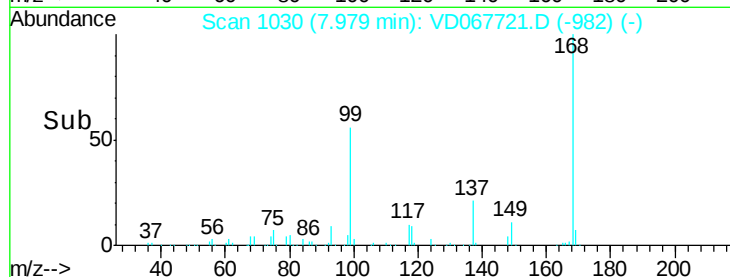
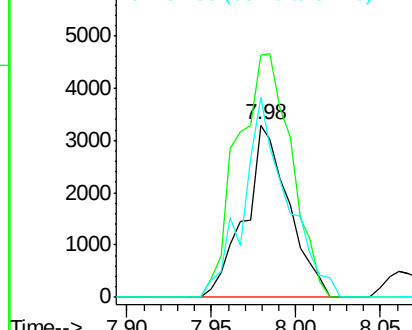
56 100

69 141.0 25.9 38.9#

84 116.3 76.2 114.4#



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: 47.802 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD067721.D

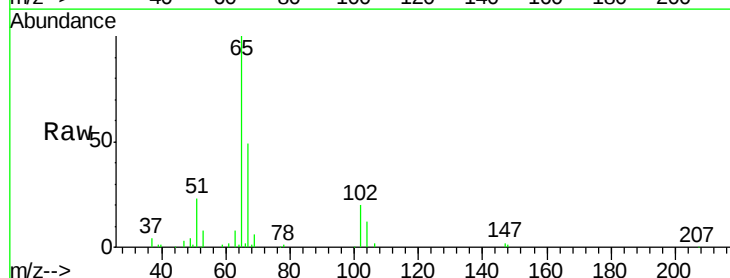
Acq: 20 Nov 2020 13:36

Tgt Ion: 65 Resp: 116914

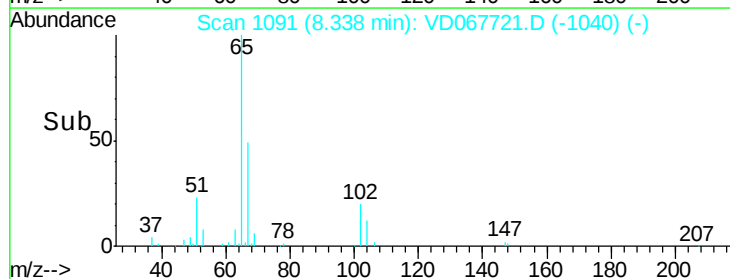
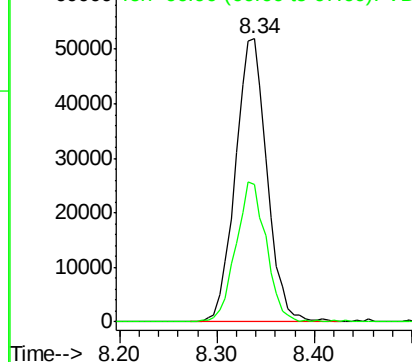
Ion Ratio Lower Upper

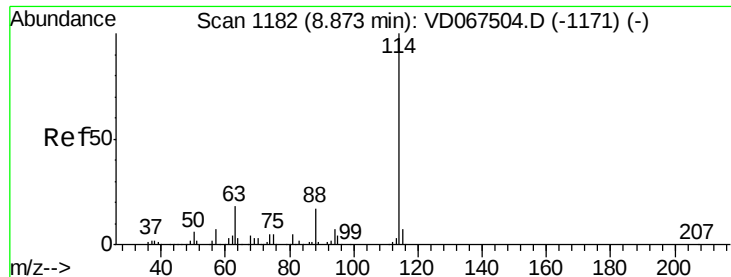
65 100

67 47.6 0.0 99.4



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# 1182

Delta R.T. -0.00 min

Lab File: VD067721.D

Acq: 20 Nov 2020 13:36

Instrument :  
MSVOA\_D  
ClientSampleId :

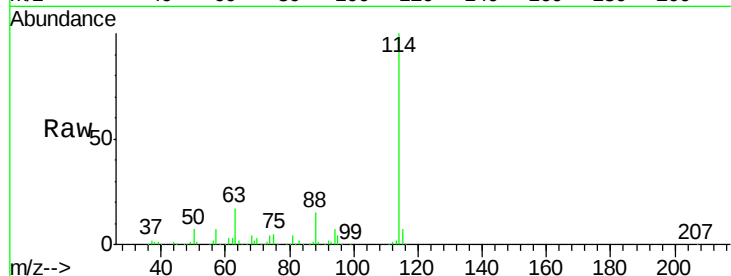
Tot Ion:114 Resp: 419947

Ion Ratio Lower Upper

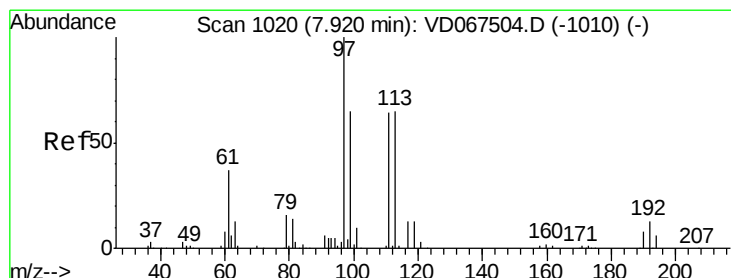
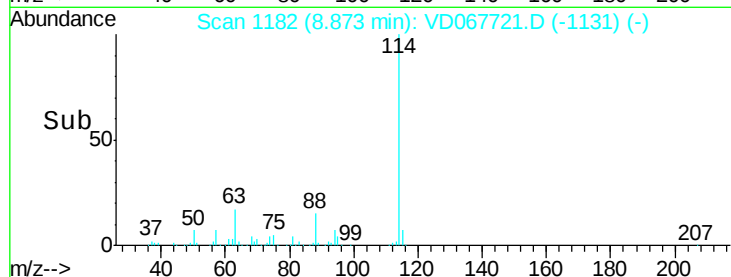
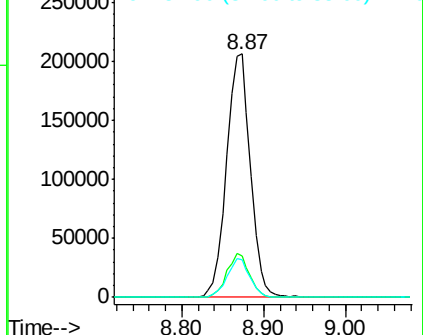
114 100

63 16.8 0.0 35.0

88 15.3 0.0 33.0



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: 31.641 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD067721.D

Acq: 20 Nov 2020 13:36

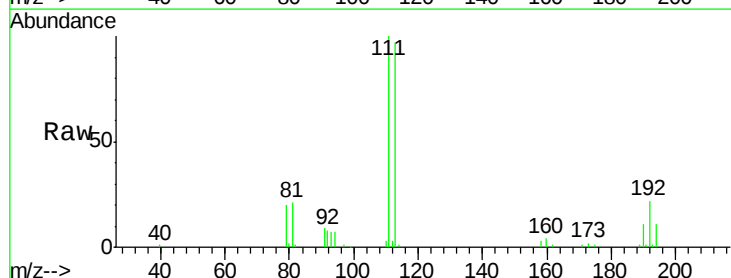
Tgt Ion:113 Resp: 80058

Ion Ratio Lower Upper

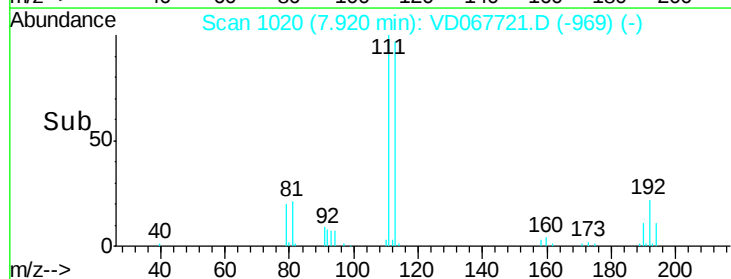
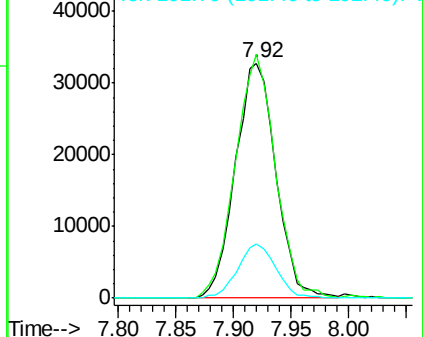
113 100

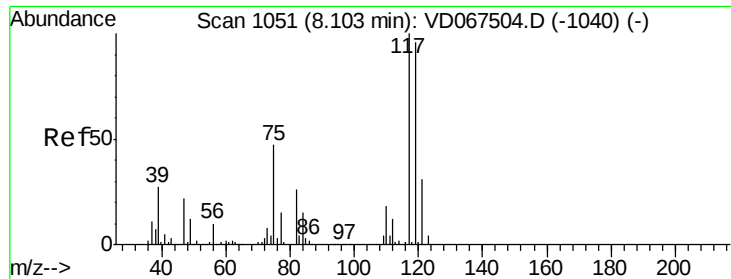
111 102.6 80.0 120.0

192 21.9 16.3 24.5



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





#38

Carbon Tetrachloride

Concen: 5.967 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD067721.D

Acq: 20 Nov 2020 13:36

Instrument :

MSVOA\_D

ClientSampleId :

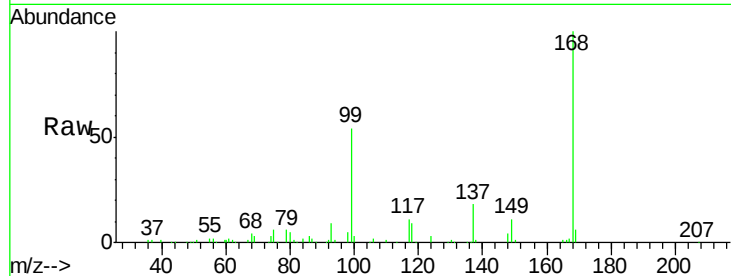
Tot Ion:117 Resp: 27869

Ion Ratio Lower Upper

117 100

119 3.3 76.9 115.3#

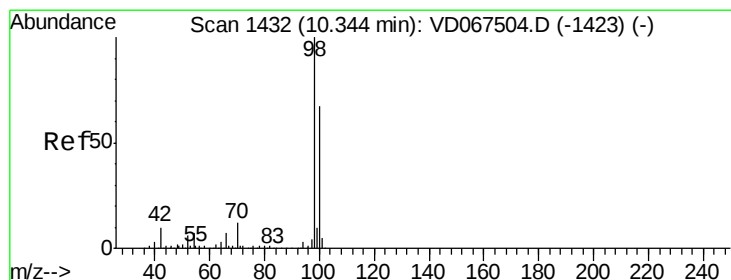
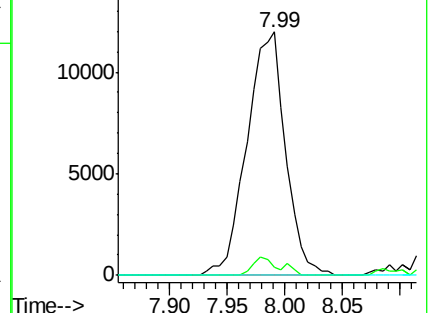
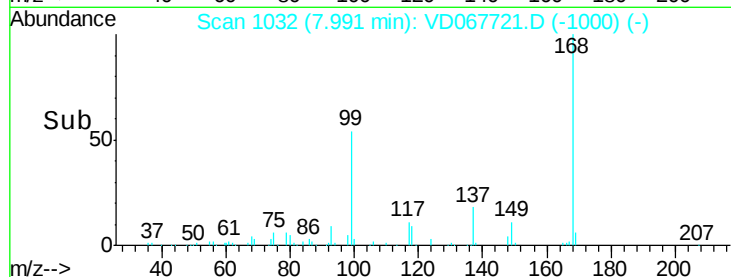
121 0.0 24.5 36.7#



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: 55.270 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD067721.D

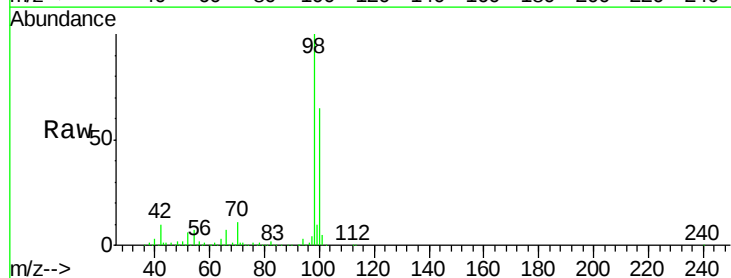
Acq: 20 Nov 2020 13:36

Tgt Ion: 98 Resp: 491442

Ion Ratio Lower Upper

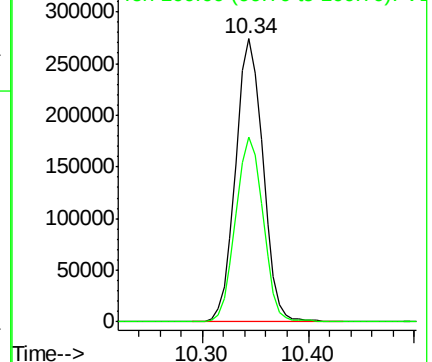
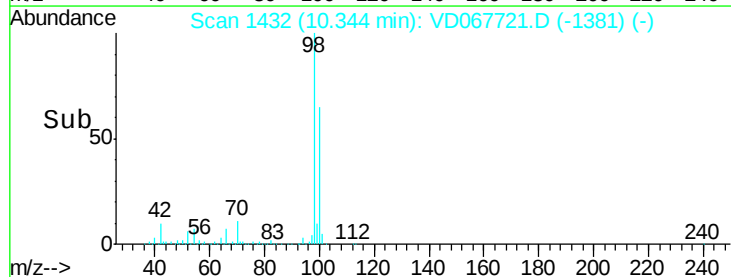
98 100

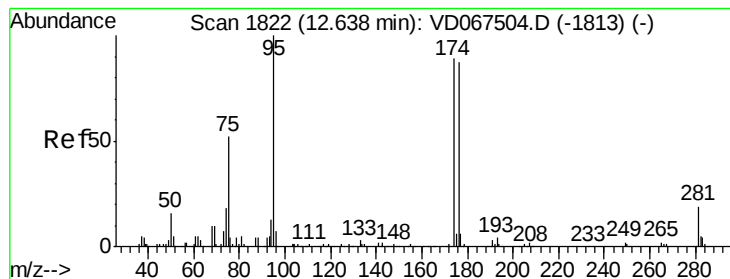
100 65.8 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 65.457 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067721.D

Acq: 20 Nov 2020 13:36

Instrument :

MSVOA\_D

ClientSampleId :

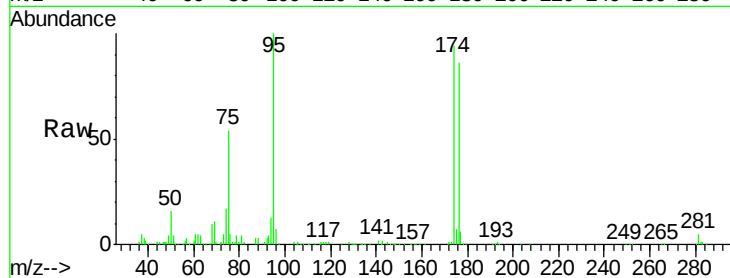
Tot Ion: 95 Resp: 200939

Ion Ratio Lower Upper

95 100

174 91.1 0.0 177.8

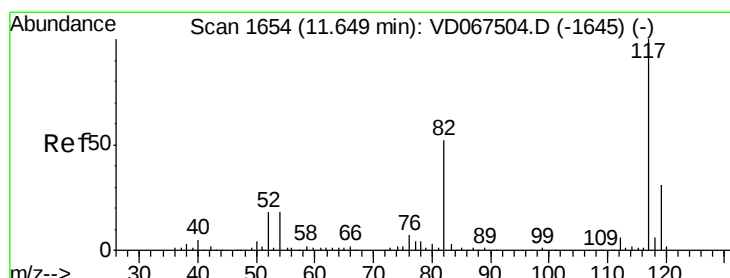
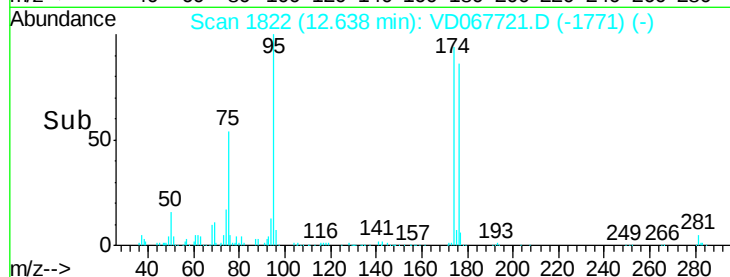
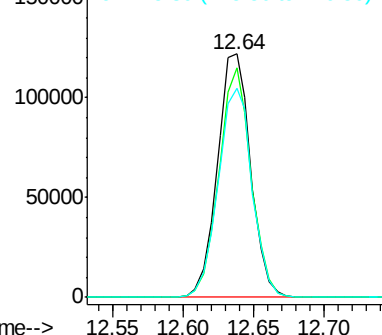
176 87.7 0.0 172.0



Abundance Ion 94.90 (94.60 to 95.60): VD

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: VD067721.D

Acq: 20 Nov 2020 13:36

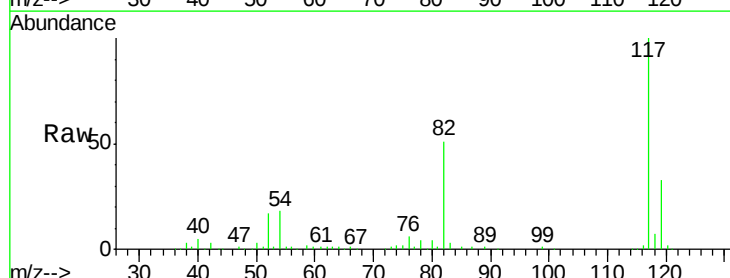
Tgt Ion: 117 Resp: 446861

Ion Ratio Lower Upper

117 100

82 51.4 41.6 62.4

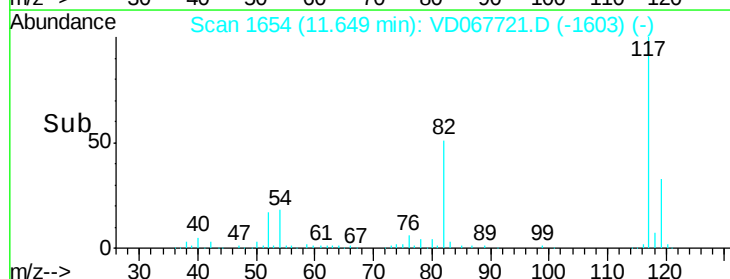
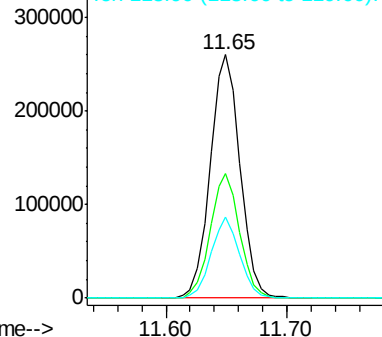
119 33.3 25.1 37.7

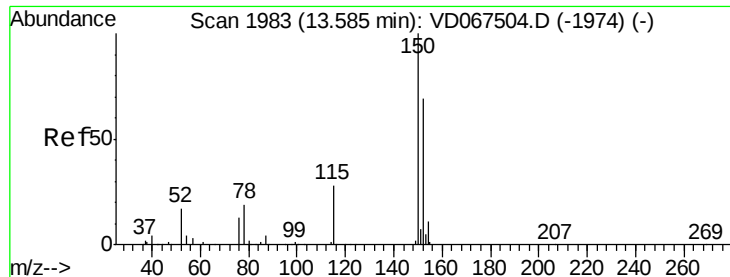


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VD

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. -0.01 min

Lab File: VD067721.D

Acq: 20 Nov 2020 13:36

Instrument :

MSVOA\_D

ClientSampleId :

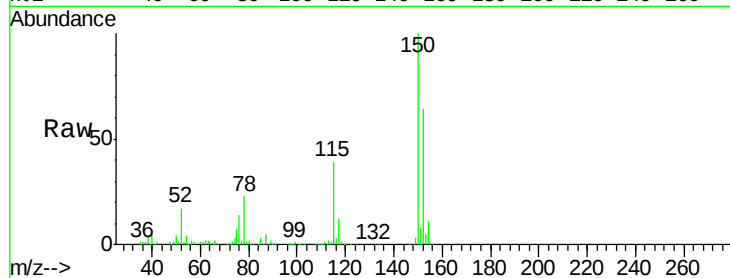
Tot Ion:152 Resp: 238242

Ion Ratio Lower Upper

152 100

115 60.3 29.3 88.0

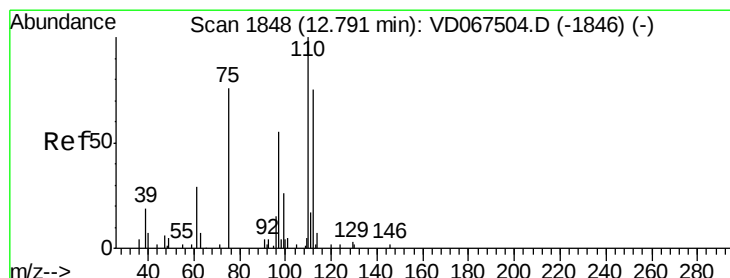
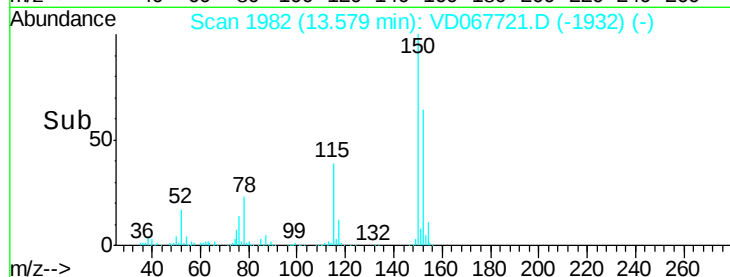
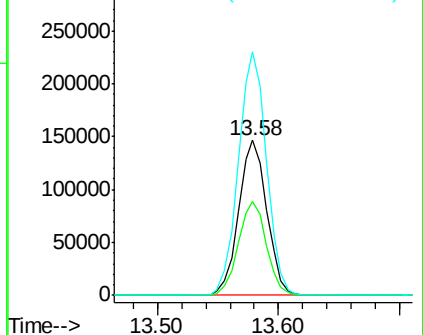
150 156.6 0.0 338.2



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: 73.285 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067721.D

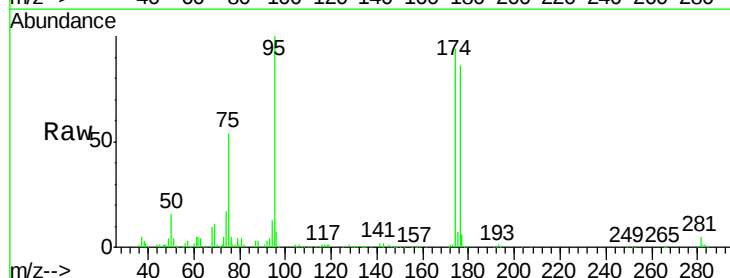
Acq: 20 Nov 2020 13:36

Tgt Ion: 75 Resp: 105326

Ion Ratio Lower Upper

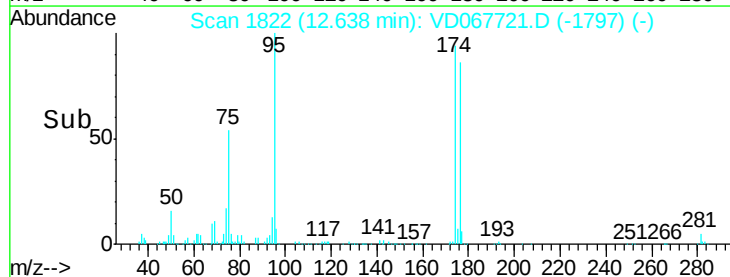
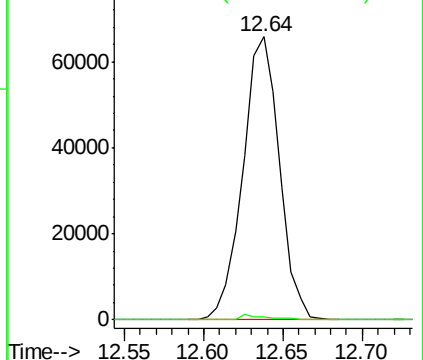
75 100

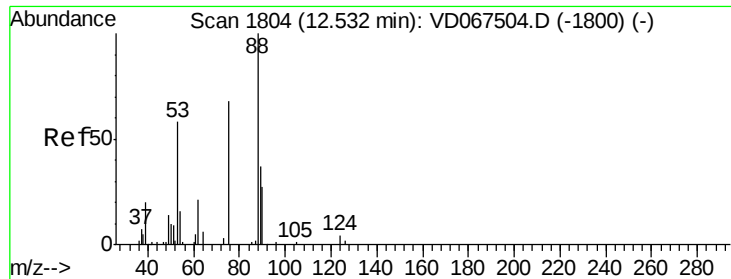
77 1.4 0.0 0.0#



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: 148.788 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067721.D

Acq: 20 Nov 2020 13:36

Instrument :

MSVOA\_D

ClientSampleId :

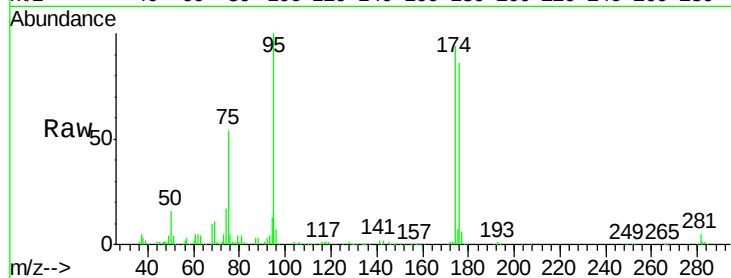
Tot Ion: 75 Resp: 105326

Ion Ratio Lower Upper

75 100

53 0.1 75.9 113.9#

89 0.0 44.6 67.0#



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

