

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052620\  
 Data File : VD065760.D  
 Acq On : 26 May 2020 14:22  
 Operator : VA/SY  
 Sample : L2498-09  
 Misc : 7.84G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 27 02:59:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 13 14:28:42 2020  
 Response via : Initial Calibration

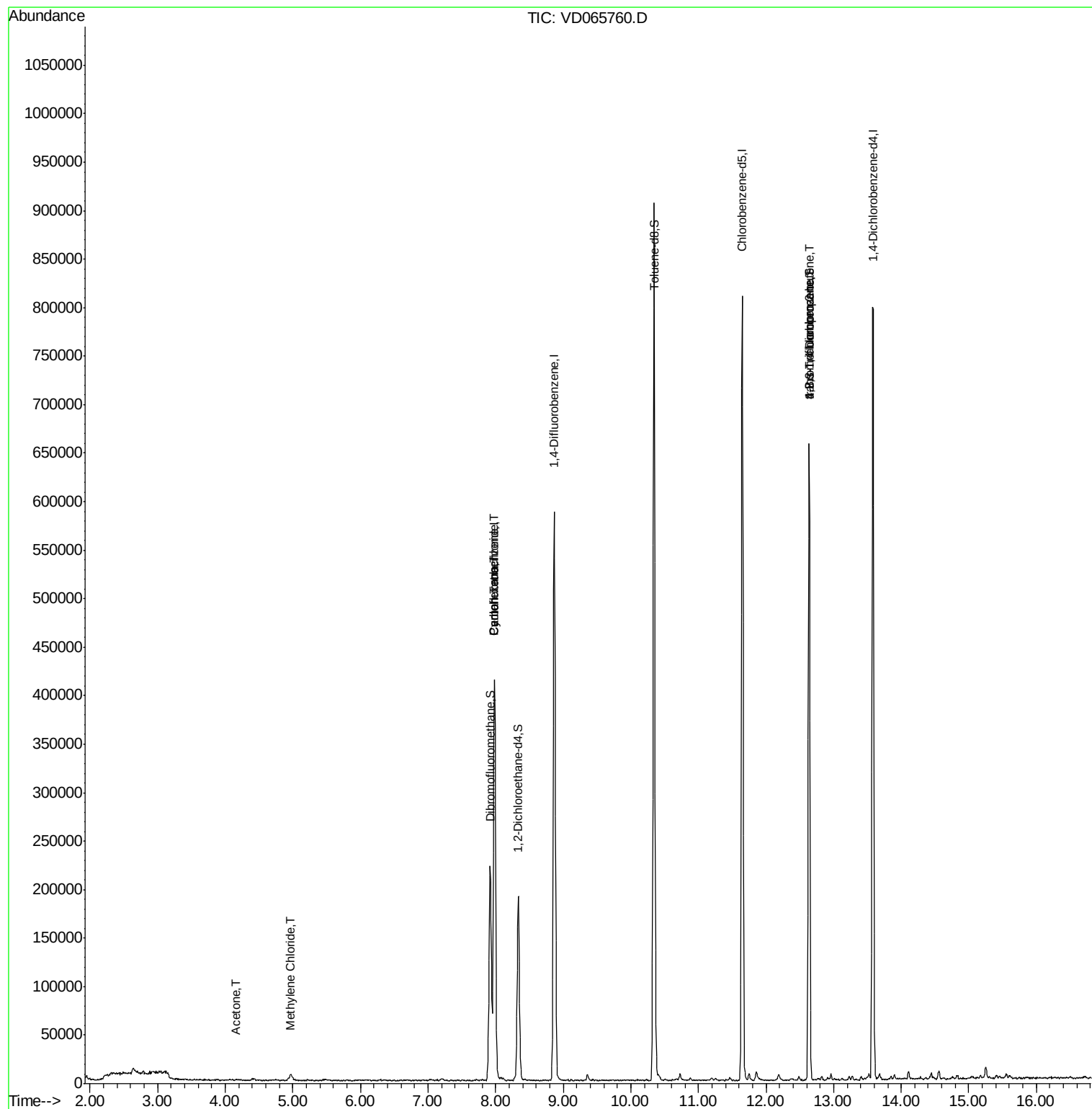
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.99  | 168  | 319481   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 504124   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 455207   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 215001   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 152578   | 59.26     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 118.52% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 158099   | 55.36     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.72% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 599982   | 55.18     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.36% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 203151   | 55.17     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.34% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 11) Tert butyl alcohol         | 5.21  | 59   | 271      | Below Cal | #       | 75       |
| 13) Acrolein                   | 3.97  | 56   | 64       | Below Cal | #       | 13       |
| 16) Acetone                    | 4.17  | 43   | 1788     | 3.386     | ug/l    | 93       |
| 18) Methyl Acetate             | 4.73  | 43   | 83       | Below Cal | #       | 52       |
| 20) Methylene Chloride         | 4.96  | 84   | 4248     | 1.426     | ug/l #  | 80       |
| 31) Cyclohexane                | 7.98  | 56   | 8810     | 1.722     | ug/l #  | 38       |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 31963    | 6.883     | ug/l #  | 17       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 108832   | 67.826    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 108832   | 133.065   | ug/l #  | 13       |

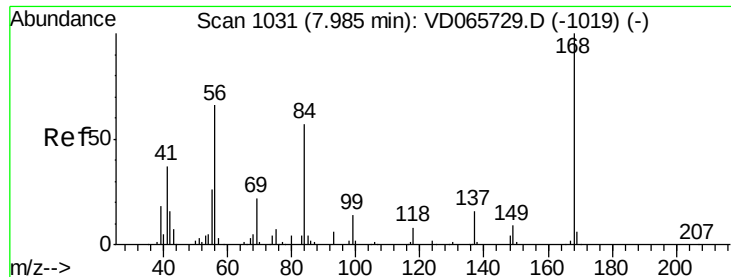
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052620\  
Data File : VD065760.D  
Acq On : 26 May 2020 14:22  
Operator : VA/SY  
Sample : L2498-09  
Misc : 7.84G/5.00ml/MSVOA D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: May 27 02:59:19 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D051320S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 13 14:28:42 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: VD065760.D

Acq: 26 May 2020 14:22

Instrument :

MSVOA\_D

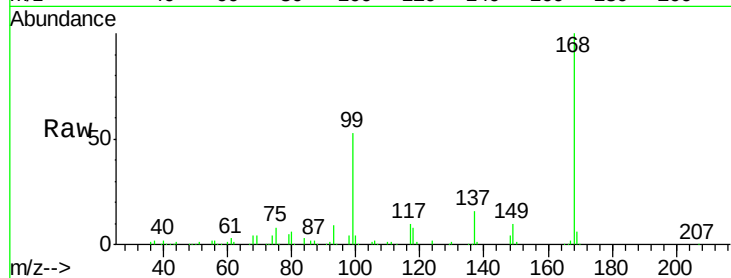
ClientSampleId :

Tot Ion:168 Resp: 319481

Ion Ratio Lower Upper

168 100

99 53.2 40.6 60.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

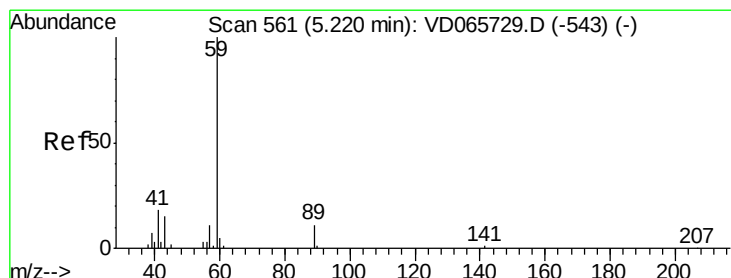
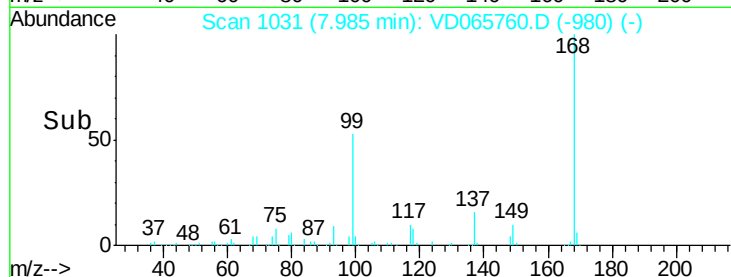
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD065760.D

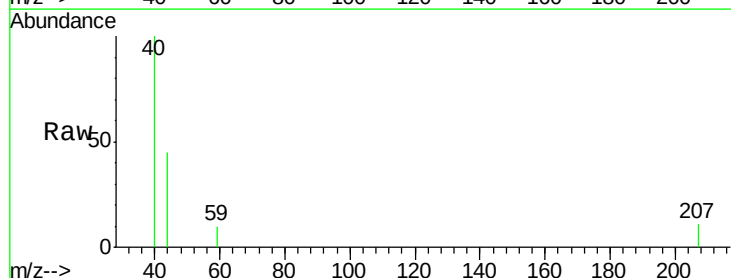
Acq: 26 May 2020 14:22

Tgt Ion: 59 Resp: 271

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.21

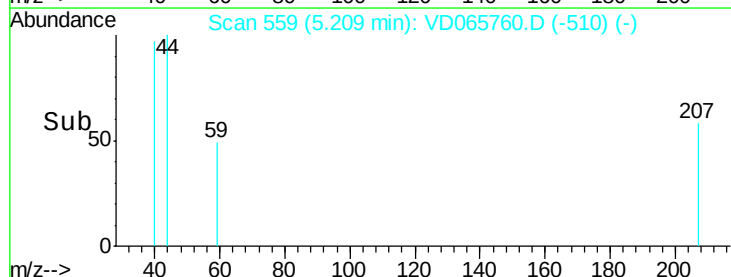
300

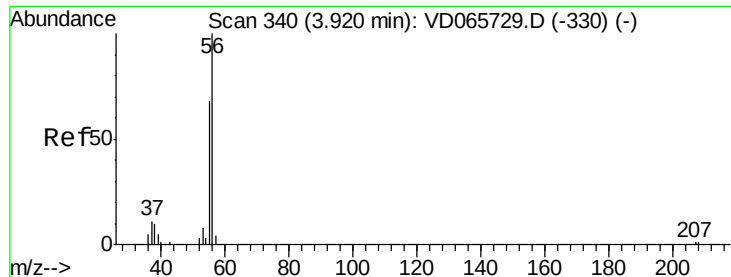
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.97 min Scan# 348

Delta R.T. 0.05 min

Lab File: VD065760.D

Acq: 26 May 2020 14:22

Instrument :

MSVOA\_D

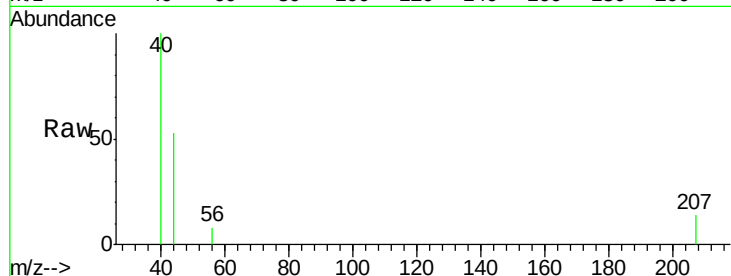
ClientSampleId :

Tot Ion: 56 Resp: 64

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.8#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.97

200

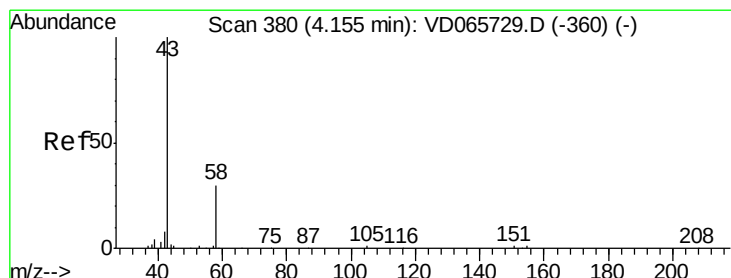
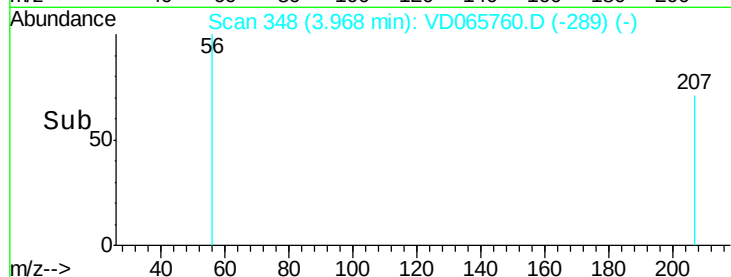
150

100

50

0

Time-->



#16

Acetone

Concen: 3.386 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD065760.D

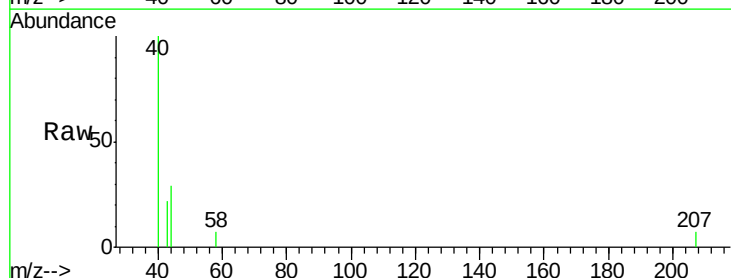
Acq: 26 May 2020 14:22

Tgt Ion: 43 Resp: 1788

Ion Ratio Lower Upper

43 100

58 33.5 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

600

500

400

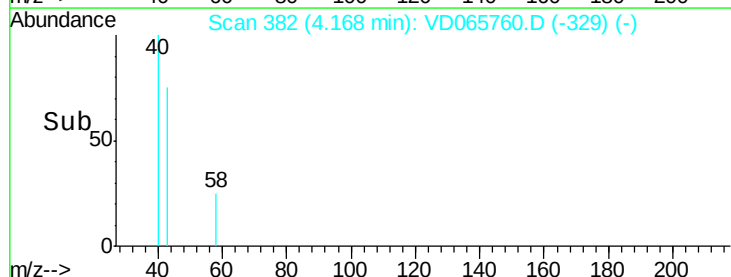
300

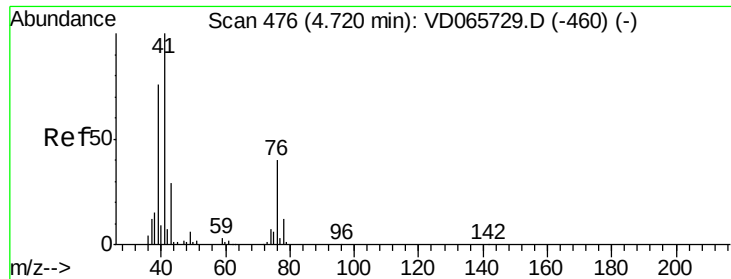
200

100

0

Time-->

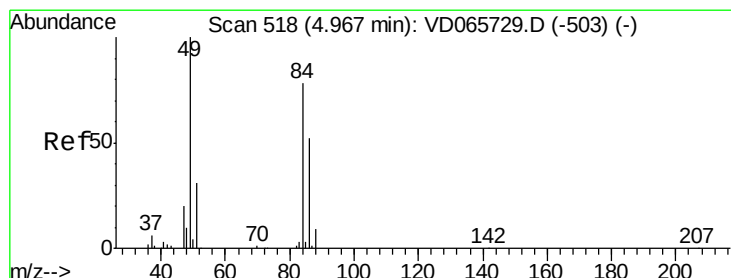
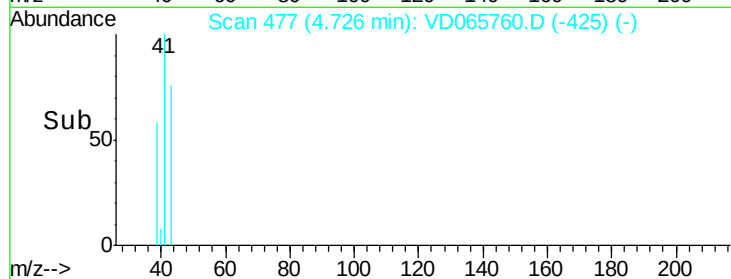
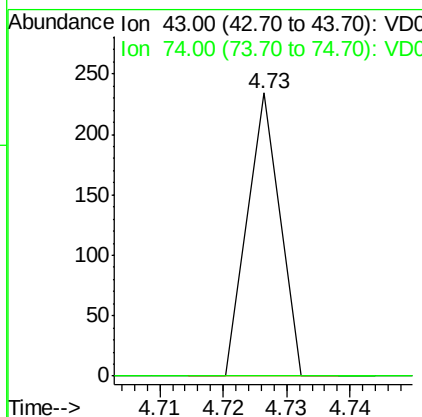
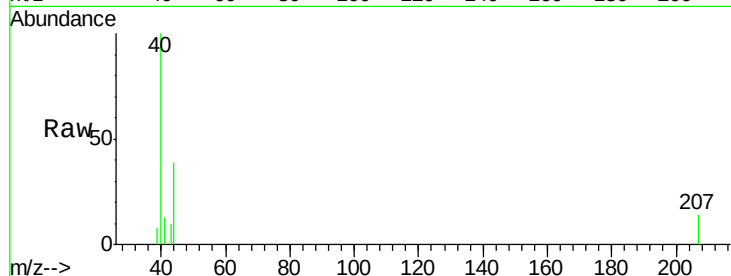




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.73 min Scan# 477  
Delta R.T. 0.01 min  
Lab File: VD065760.D  
Acq: 26 May 2020 14:22

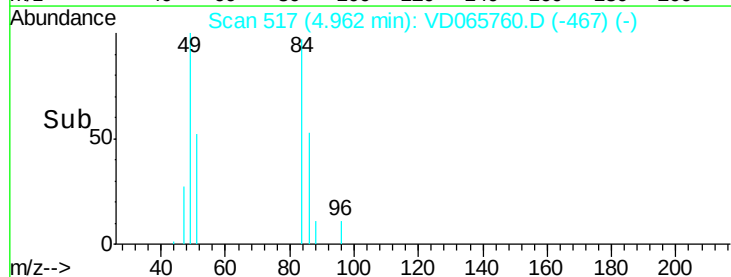
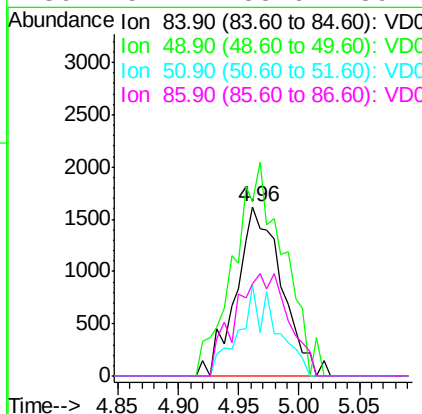
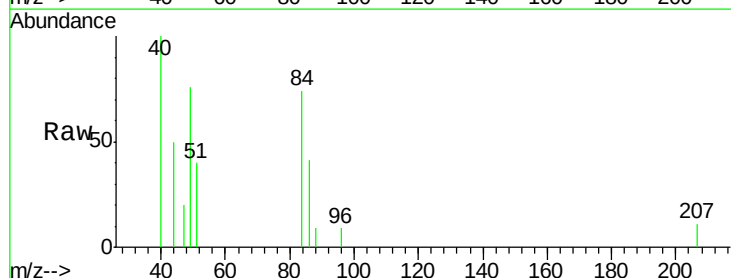
Instrument :  
MSVOA\_D  
ClientSampleId :

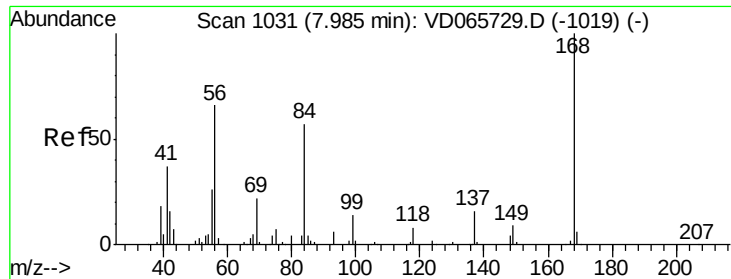
Tot Ion: 43 Resp: 83  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 27.8#



#20  
Methylene Chloride  
Concen: 1.426 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: VD065760.D  
Acq: 26 May 2020 14:22

Tgt Ion: 84 Resp: 4248  
Ion Ratio Lower Upper  
84 100  
49 102.7 102.9 154.3#  
51 53.6 31.5 47.3#  
86 54.7 53.6 80.4

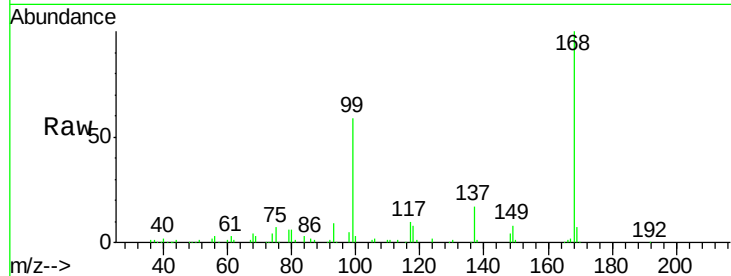




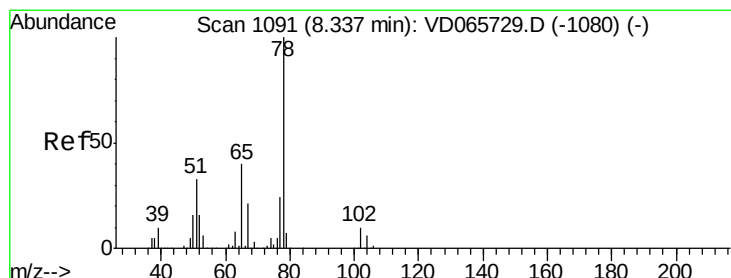
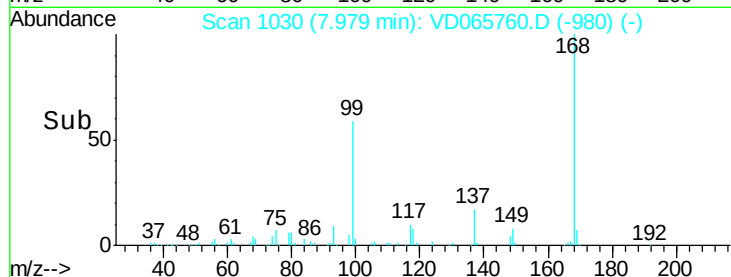
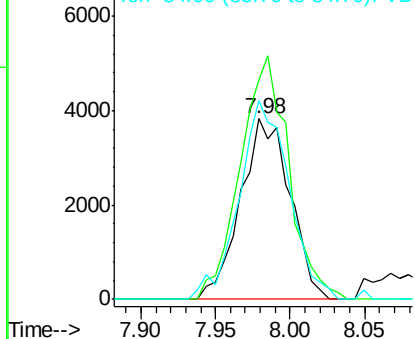
#31  
Cyclohexane  
Concen: 1.722 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD065760.D  
Acq: 26 May 2020 14:22

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 56 Resp: 8810  
Ion Ratio Lower Upper  
56 100  
69 121.8 25.9 38.9#  
84 110.4 69.1 103.7#

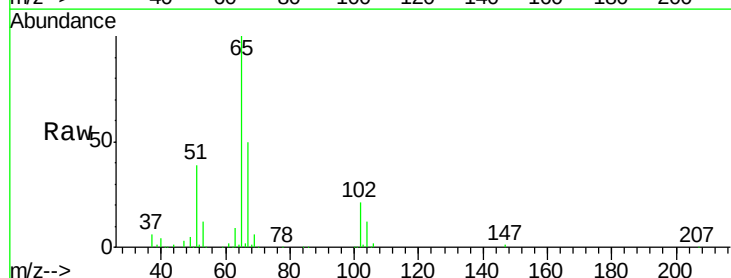


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

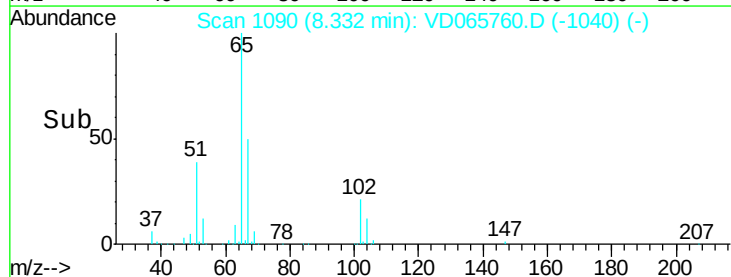
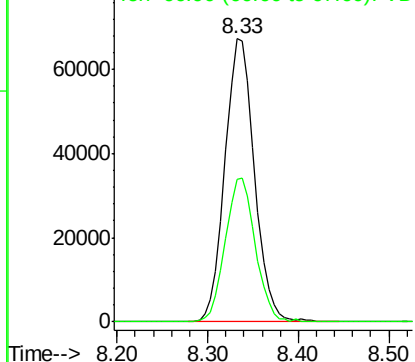


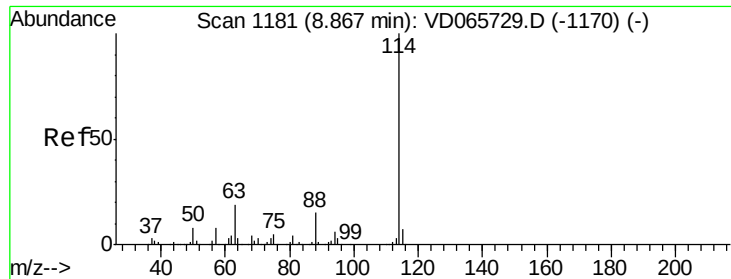
#33  
1,2-Dichloroethane-d4  
Concen: 59.264 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.01 min  
Lab File: VD065760.D  
Acq: 26 May 2020 14:22

Tgt Ion: 65 Resp: 152578  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC

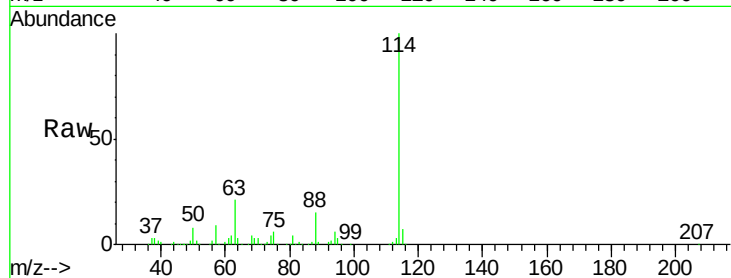




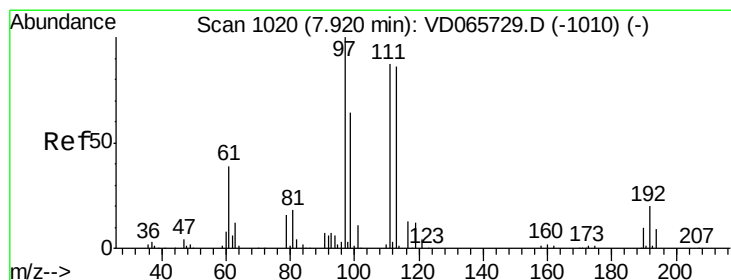
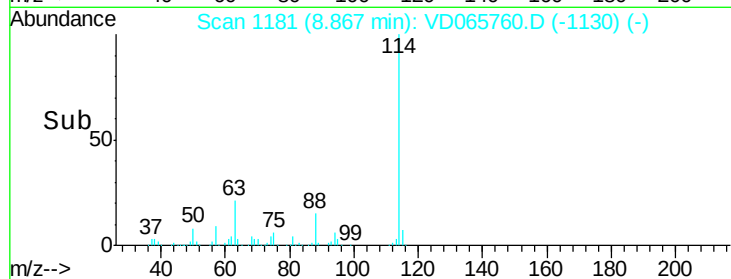
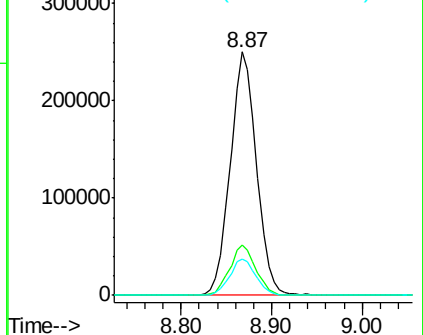
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD065760.D  
 Acq: 26 May 2020 14:22

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:114 Resp: 504124  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 0.0 37.2  
 88 14.8 0.0 30.2

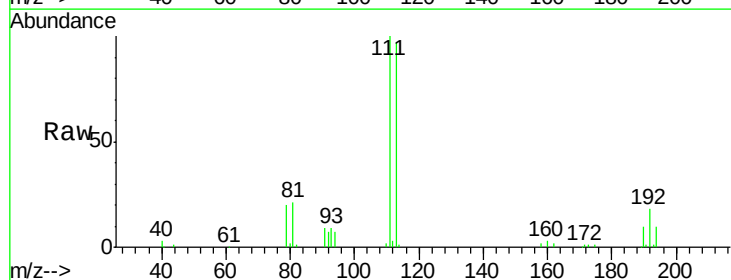


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

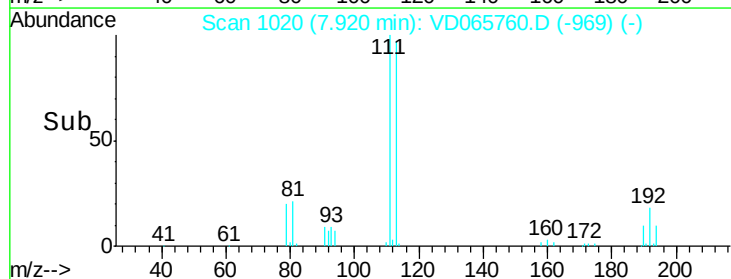
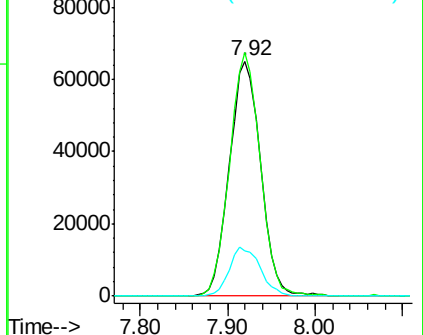


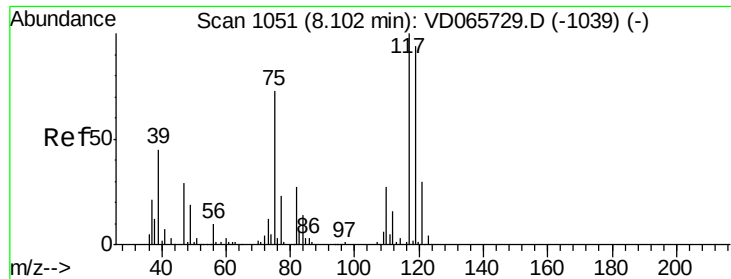
#35  
 Dibromofluoromethane  
 Concen: 55.357 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD065760.D  
 Acq: 26 May 2020 14:22

Tgt Ion:113 Resp: 158099  
 Ion Ratio Lower Upper  
 113 100  
 111 101.5 81.1 121.7  
 192 20.5 17.6 26.4



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

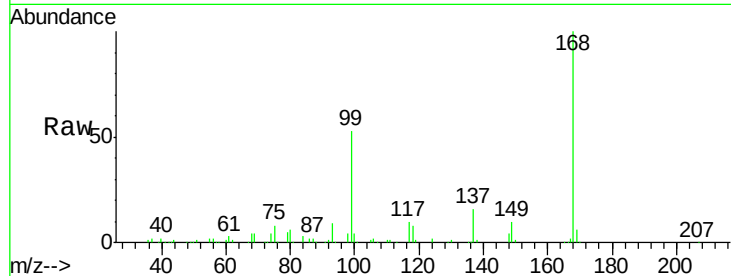




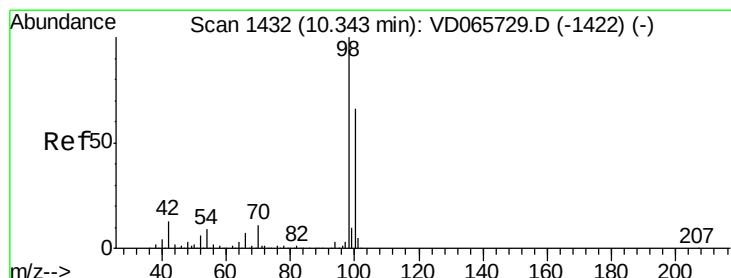
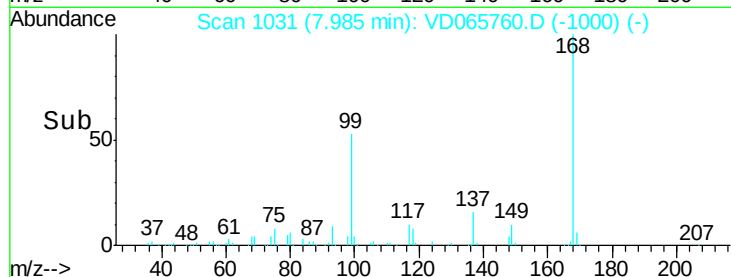
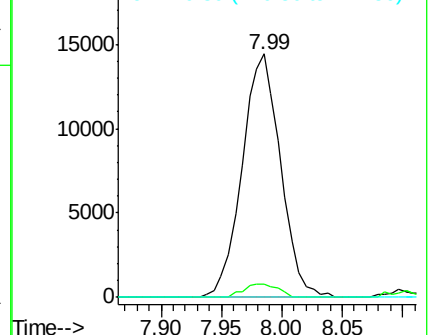
#38  
Carbon Tetrachloride  
Concen: 6.883 ug/l  
RT: 7.99 min Scan# 1031  
Delta R.T. -0.12 min  
Lab File: VD065760.D  
Acq: 26 May 2020 14:22

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:117 Resp: 31963  
Ion Ratio Lower Upper  
117 100  
119 5.4 75.6 113.4#  
121 0.0 24.4 36.6#

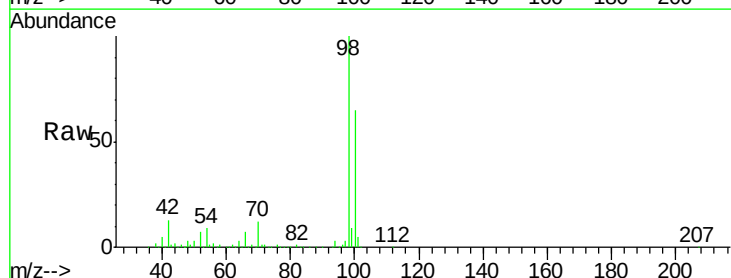


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

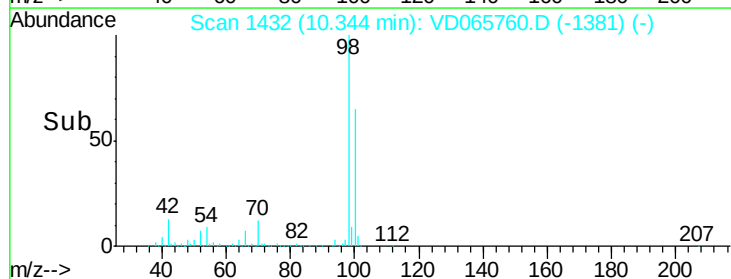
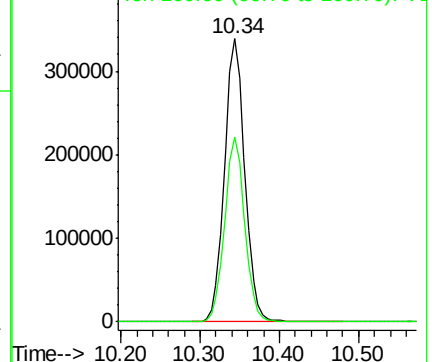


#50  
Toluene-d8  
Concen: 55.180 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065760.D  
Acq: 26 May 2020 14:22

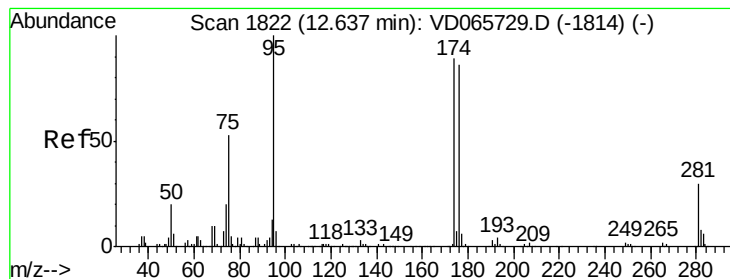
Tgt Ion: 98 Resp: 599982  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.5 78.7



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VDC







#62

4-Bromofluorobenzene

Concen: 55.169 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065760.D

Acq: 26 May 2020 14:22

Instrument :

MSVOA\_D

ClientSampleId :

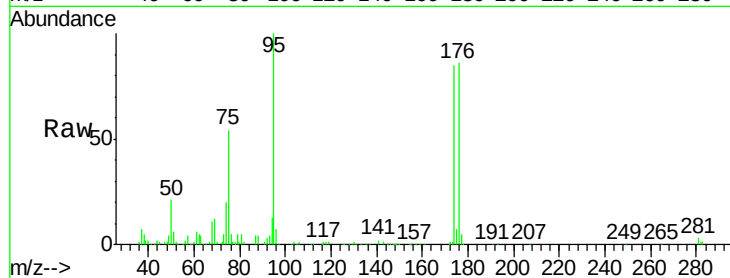
Tot Ion: 95 Resp: 203151

Ion Ratio Lower Upper

95 100

174 85.2 0.0 179.4

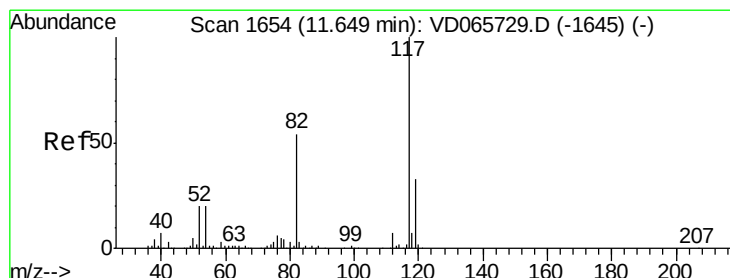
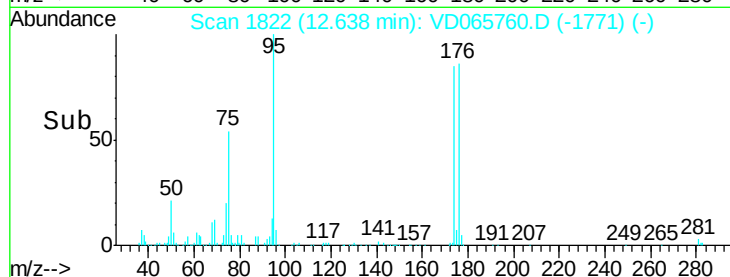
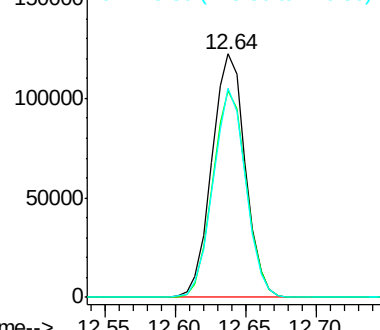
176 83.6 0.0 174.0



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: VD065760.D

Acq: 26 May 2020 14:22

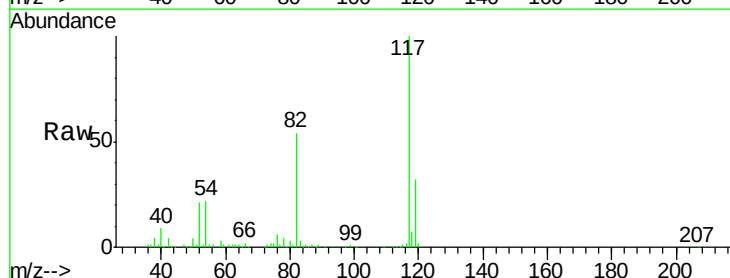
Tgt Ion: 117 Resp: 455207

Ion Ratio Lower Upper

117 100

82 54.2 43.0 64.6

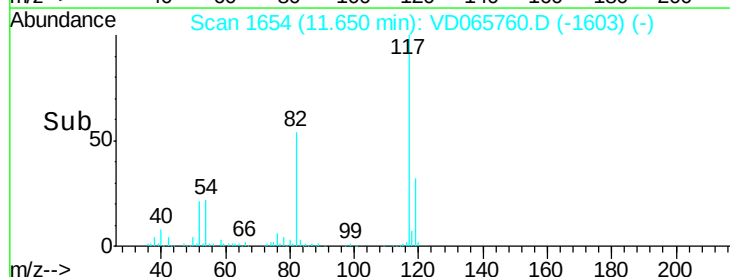
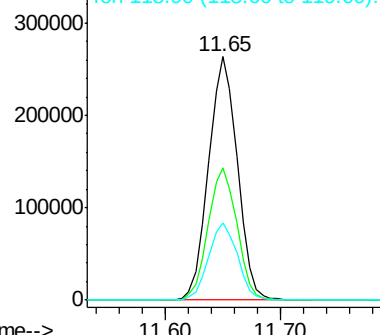
119 31.7 26.6 40.0

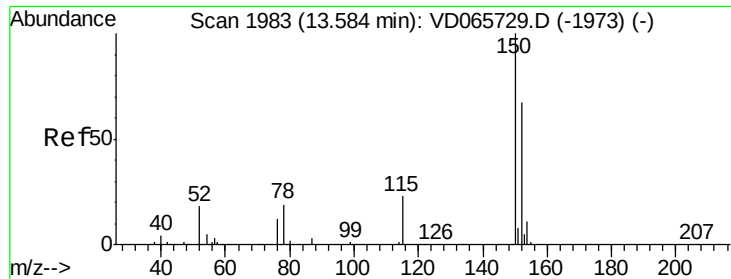


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1983

Delta R.T. 0.00 min

Lab File: VD065760.D

Acq: 26 May 2020 14:22

Instrument :

MSVOA\_D

ClientSampled :

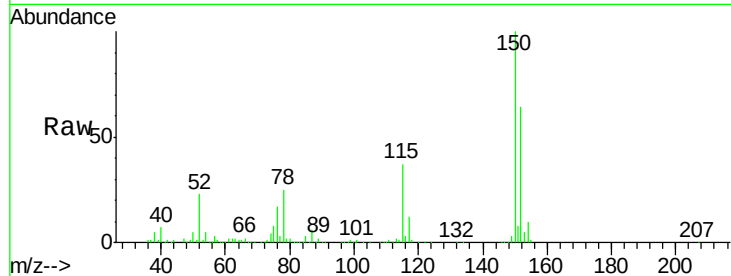
Tot Ion:152 Resp: 215001

Ion Ratio Lower Upper

152 100

115 57.7 28.1 84.3

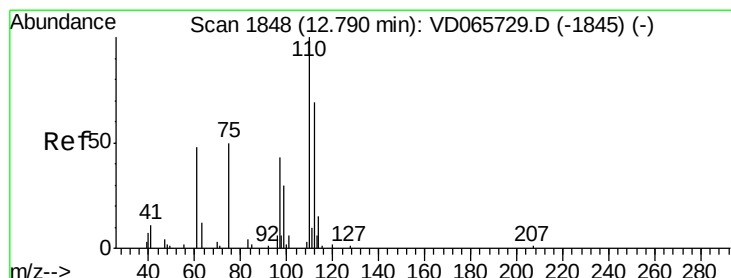
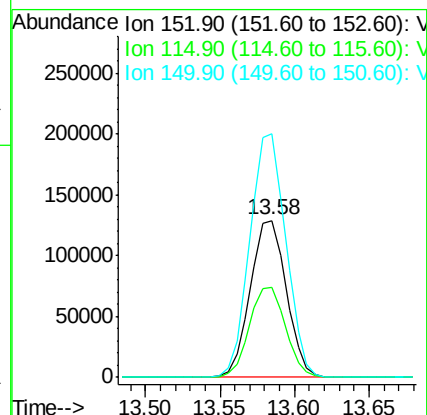
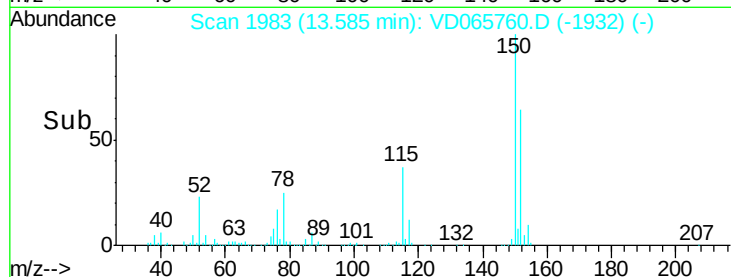
150 155.4 0.0 343.2



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: 67.826 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065760.D

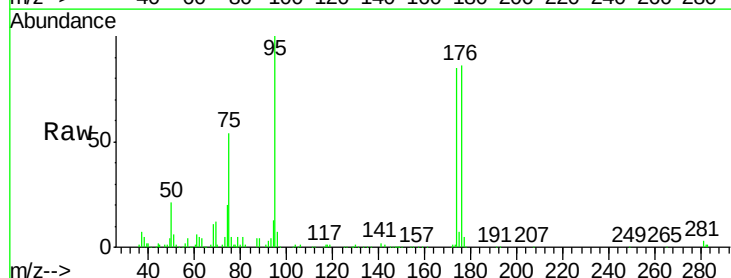
Acq: 26 May 2020 14:22

Tgt Ion: 75 Resp: 108832

Ion Ratio Lower Upper

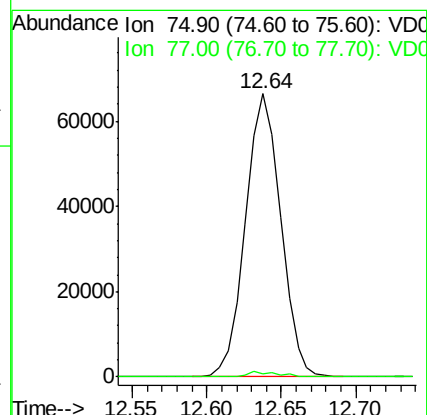
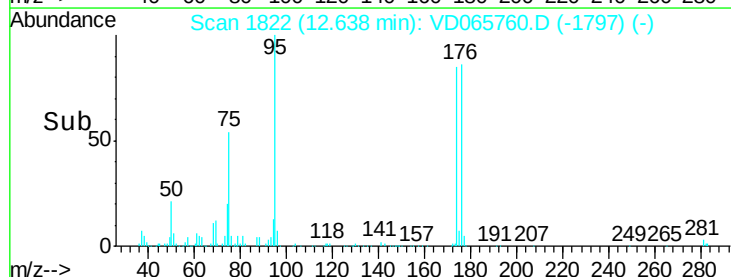
75 100

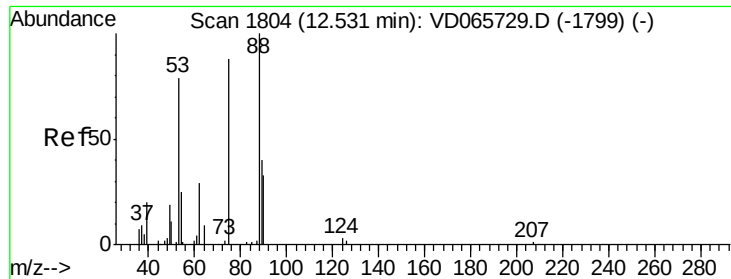
77 1.5 0.0 0.0#



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: 133.065 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065760.D

Acq: 26 May 2020 14:22

Instrument :

MSVOA\_D

ClientSampleId :

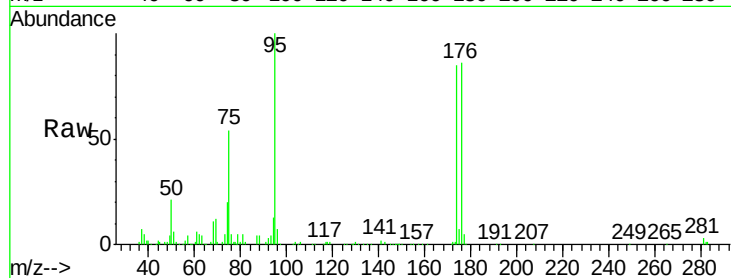
Tot Ion: 75 Resp: 108832

Ion Ratio Lower Upper

75 100

53 0.1 72.6 109.0#

89 0.0 37.0 55.4#



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

