

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\  
 Data File : VD061546.D  
 Acq On : 3 Apr 2019 8:42  
 Operator : VA/AP  
 Sample : K2214-03  
 Misc : 4.76µl/5ml/MSVOA D/SOIL  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 04 00:53:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 28 09:22:37 2019  
 Response via : Initial Calibration

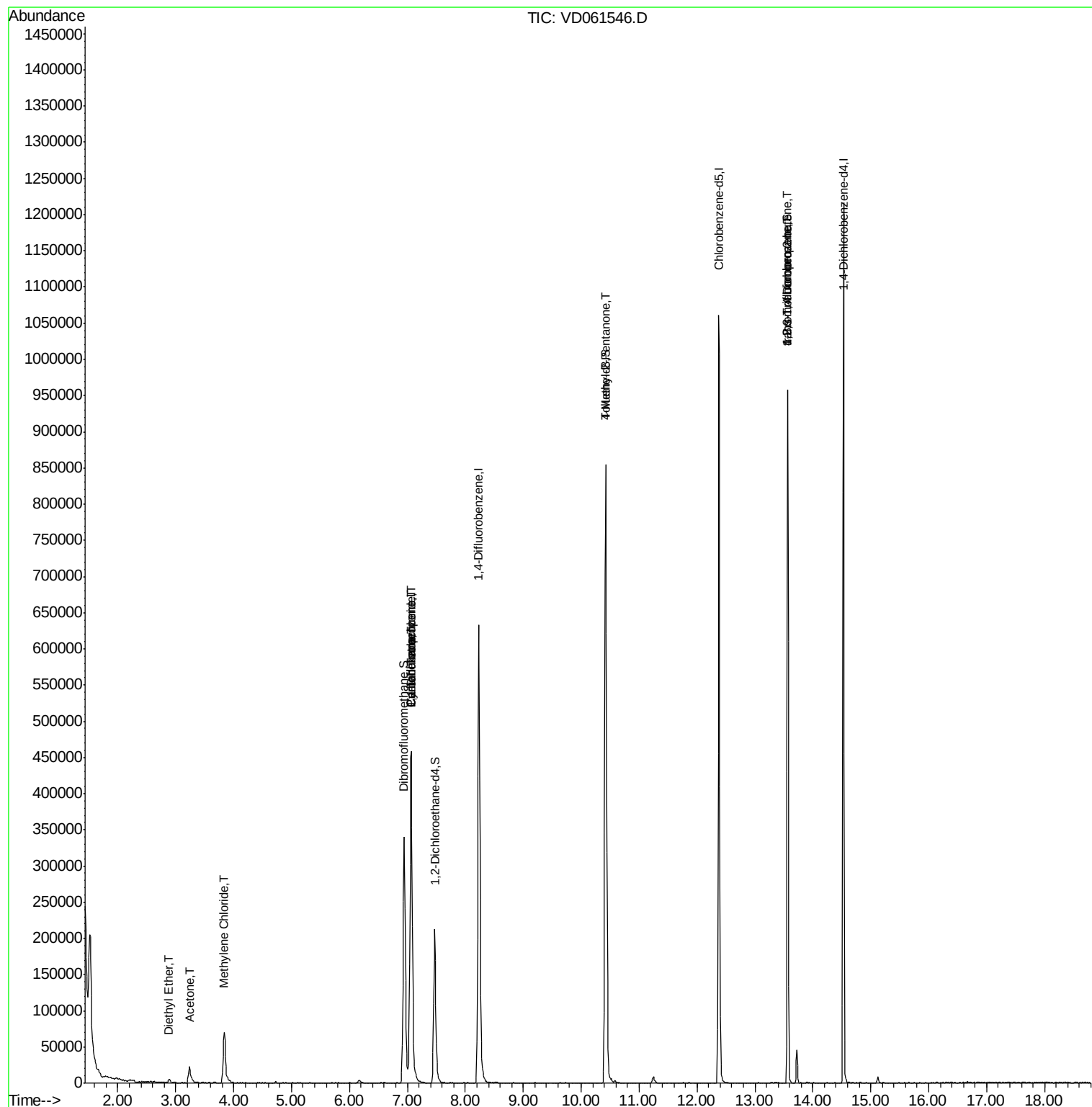
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 7.07  | 168  | 474238   | 50.00  | ug/l    | 0.05     |
| 34) 1,4-Difluorobenzene        | 8.23  | 114  | 819239   | 50.00  | ug/l    | 0.04     |
| 63) Chlorobenzene-d5           | 12.38 | 117  | 685310   | 50.00  | ug/l    | 0.03     |
| 72) 1,4-Dichlorobenzene-d4     | 14.53 | 152  | 280684   | 50.00  | ug/l    | 0.02     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.47  | 65   | 212599   | 52.48  | ug/l    | 0.04     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 104.96% |          |
| 35) Dibromofluoromethane       | 6.94  | 113  | 329818   | 52.68  | ug/l    | 0.04     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 105.36% |          |
| 50) Toluene-d8                 | 10.42 | 98   | 732033   | 48.75  | ug/l    | 0.04     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 97.50%  |          |
| 62) 4-Bromofluorobenzene       | 13.56 | 95   | 290092   | 50.38  | ug/l    | 0.02     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 100.76% |          |
| Target Compounds               |       |      |          |        |         |          |
|                                |       |      |          |        | Qvalue  |          |
| 8) Diethyl Ether               | 2.88  | 74   | 1972     | 1.111  | ug/l    | 97       |
| 16) Acetone                    | 3.24  | 43   | 50325    | 48.324 | ug/l #  | 88       |
| 20) Methylene Chloride         | 3.84  | 84   | 53611    | 7.560  | ug/l    | 97       |
| 31) Cyclohexane                | 7.06  | 56   | 8416     | 1.206  | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.06  | 75   | 36021    | 5.038  | ug/l #  | 43       |
| 38) Carbon Tetrachloride       | 7.07  | 117  | 46663    | 5.679  | ug/l #  | 13       |
| 51) 4-Methyl-2-Pentanone       | 10.42 | 43   | 3214     | 1.187  | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 13.56 | 75   | 106112   | 26.171 | ug/l #  | 45       |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 109686   | 88.726 | ug/l #  | 18       |

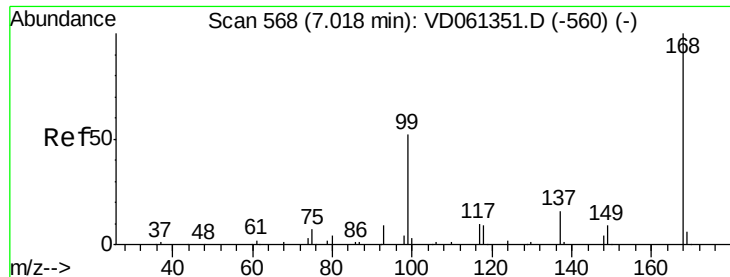
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :

Quant Time: Apr 04 00:53:54 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 28 09:22:37 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.05 min

Lab File: VD061546.D

Acq: 3 Apr 2019 8:42

Instrument :

MSVOA\_D

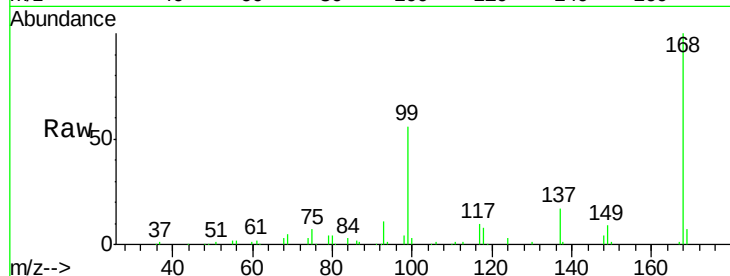
ClientSampleId :

Tot Ion:168 Resp: 474238

Ion Ratio Lower Upper

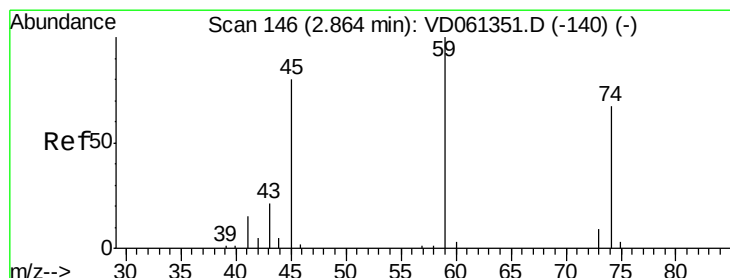
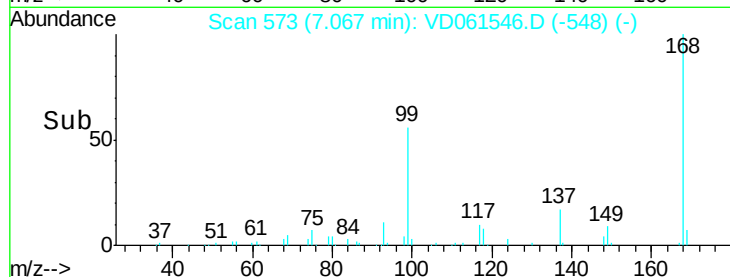
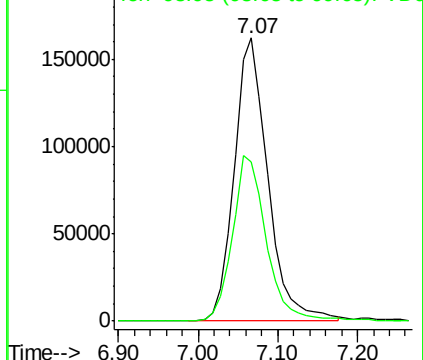
168 100

99 56.1 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.111 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD061546.D

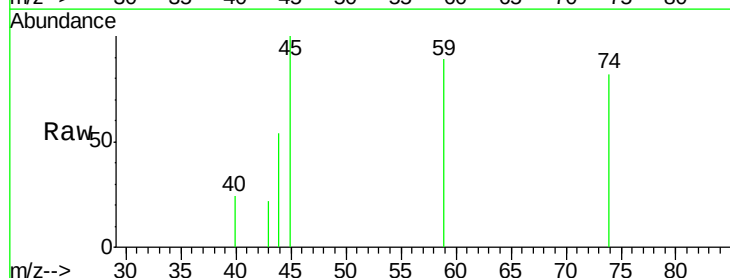
Acq: 3 Apr 2019 8:42

Tgt Ion: 74 Resp: 1972

Ion Ratio Lower Upper

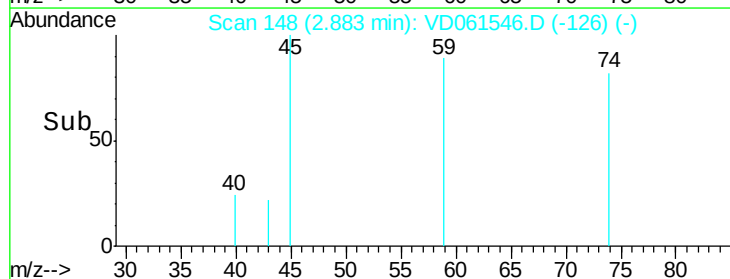
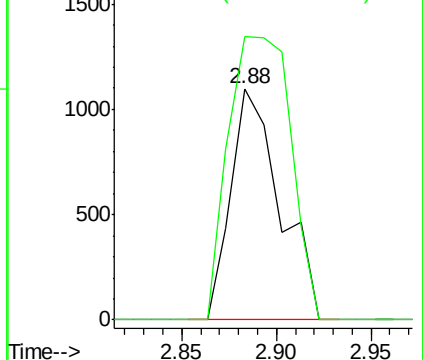
74 100

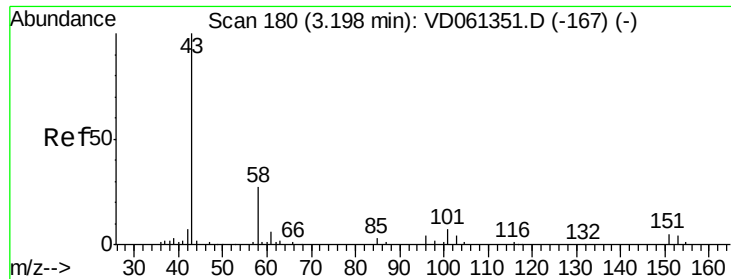
45 122.4 59.7 179.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 48.324 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.04 min

Lab File: VD061546.D

Acq: 3 Apr 2019 8:42

Instrument :

MSVOA\_D

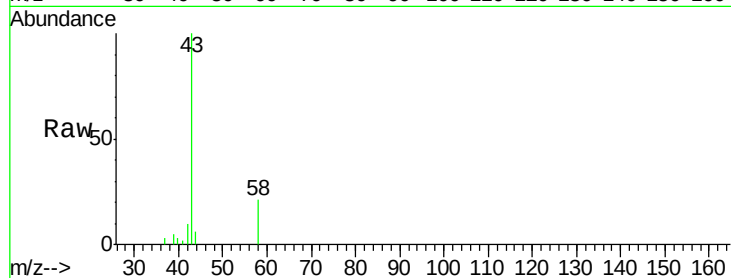
ClientSampleId :

Tot Ion: 43 Resp: 50325

Ion Ratio Lower Upper

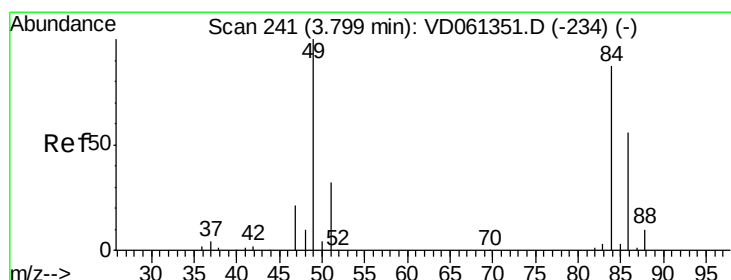
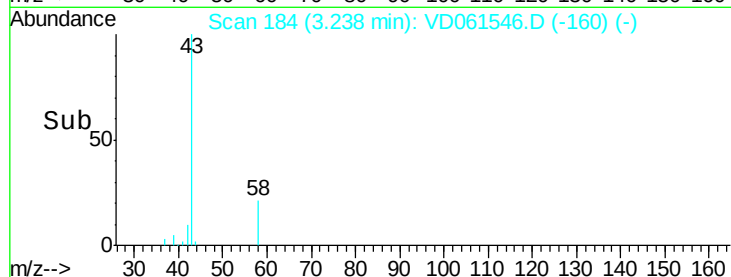
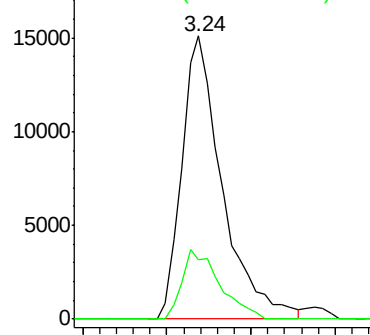
43 100

58 20.8 21.5 32.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 7.560 ug/l

RT: 3.84 min Scan# 245

Delta R.T. 0.04 min

Lab File: VD061546.D

Acq: 3 Apr 2019 8:42

Tgt Ion: 84 Resp: 53611

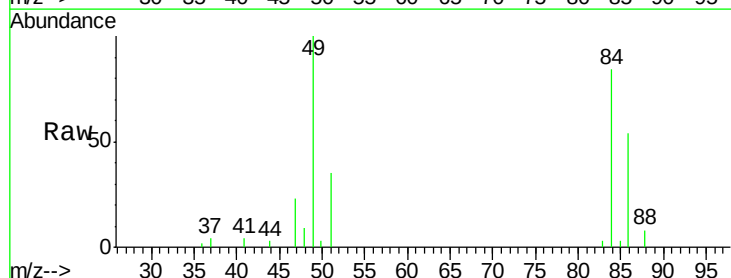
Ion Ratio Lower Upper

84 100

49 118.9 91.8 137.8

51 41.1 29.8 44.8

86 63.8 51.8 77.6

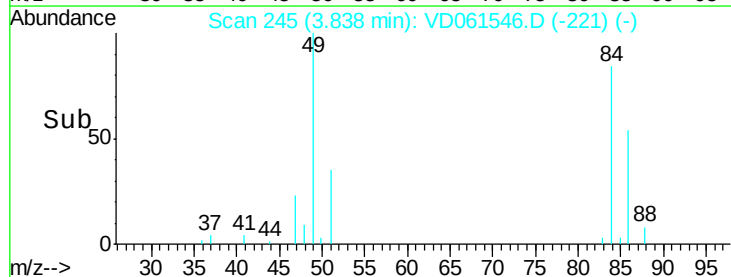
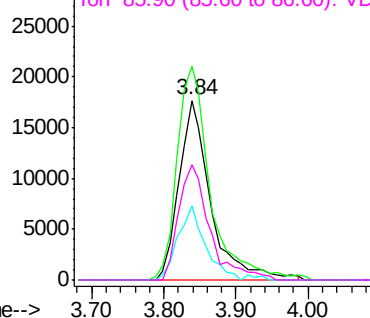


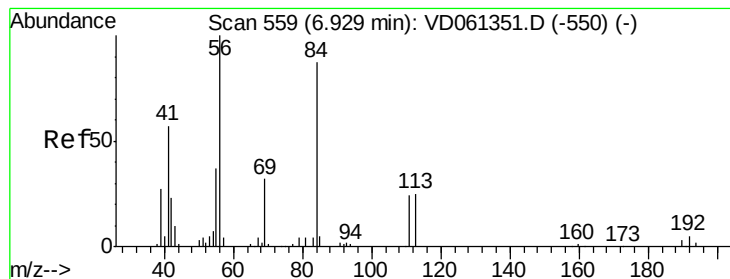
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.206 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.13 min

Lab File: VD061546.D

Acq: 3 Apr 2019 8:42

Instrument :

MSVOA\_D

ClientSampleId :

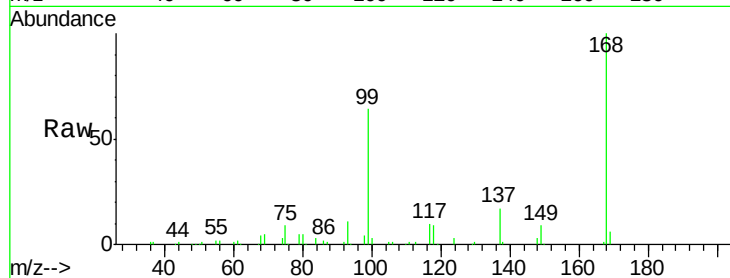
Tot Ion: 56 Resp: 8416

Ion Ratio Lower Upper

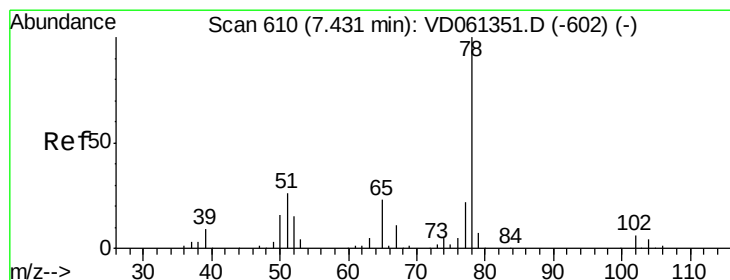
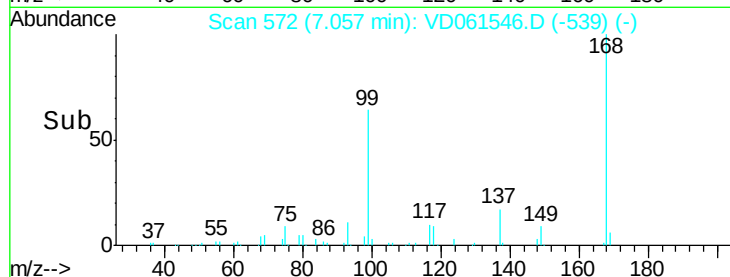
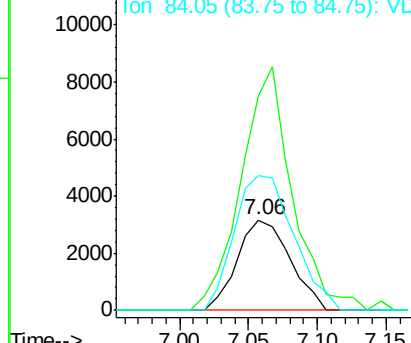
56 100

69 237.9 25.7 38.5#

84 149.8 70.6 105.8#



Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD061546.D

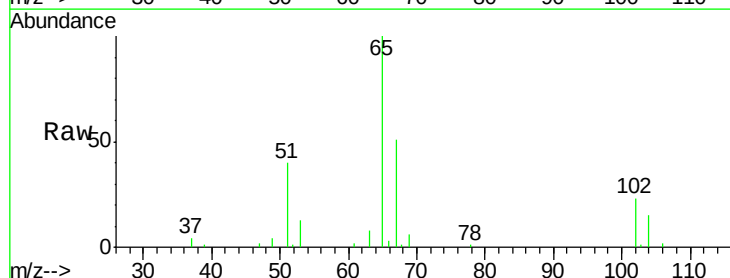
Acq: 3 Apr 2019 8:42

Tgt Ion: 65 Resp: 212599

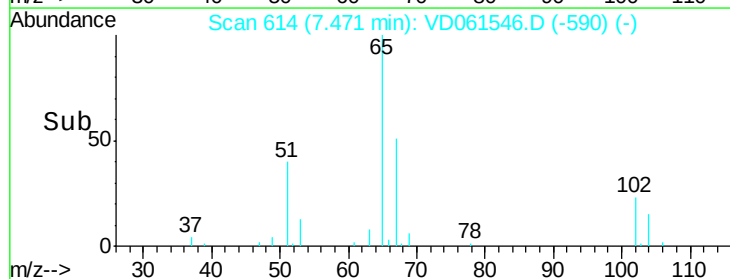
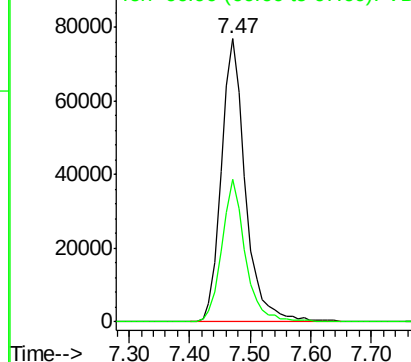
Ion Ratio Lower Upper

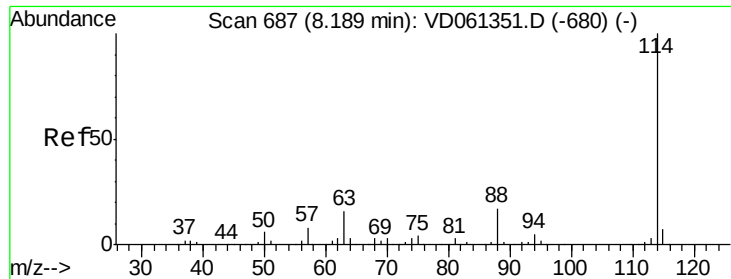
65 100

67 50.6 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

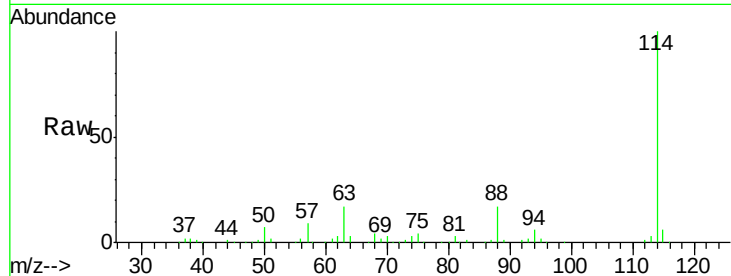




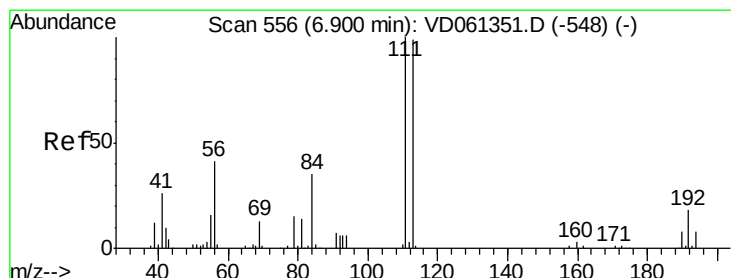
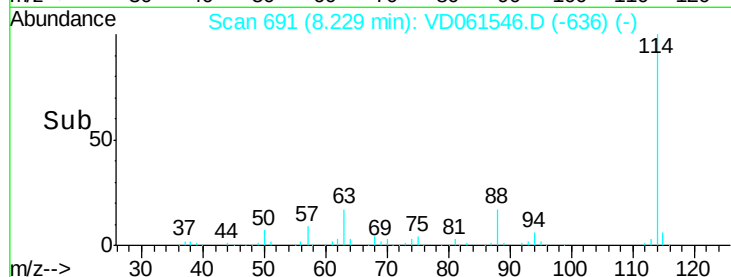
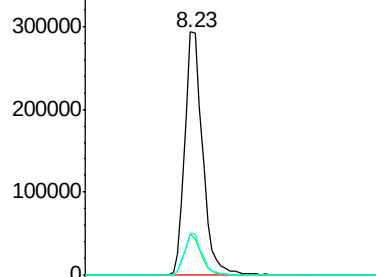
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.23 min Scan# 691  
 Delta R.T. 0.04 min  
 Lab File: VD061546.D  
 Acq: 3 Apr 2019 8:42

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:114 Resp: 819239  
 Ion Ratio Lower Upper  
 114 100  
 63 16.9 0.0 31.6  
 88 17.2 0.0 33.4

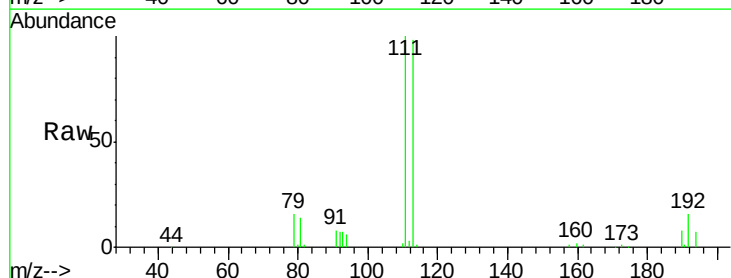


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

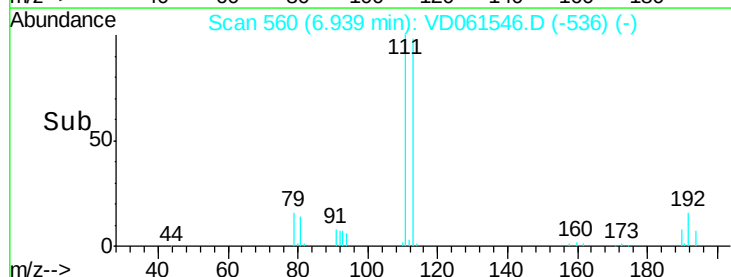
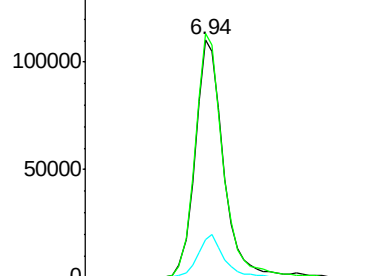


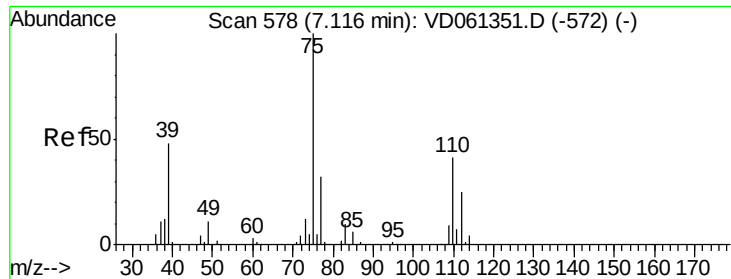
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.94 min Scan# 560  
 Delta R.T. 0.04 min  
 Lab File: VD061546.D  
 Acq: 3 Apr 2019 8:42

Tgt Ion:113 Resp: 329818  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.0 121.6  
 192 15.9 14.4 21.6



Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.038 ug/l

RT: 7.06 min Scan# 572

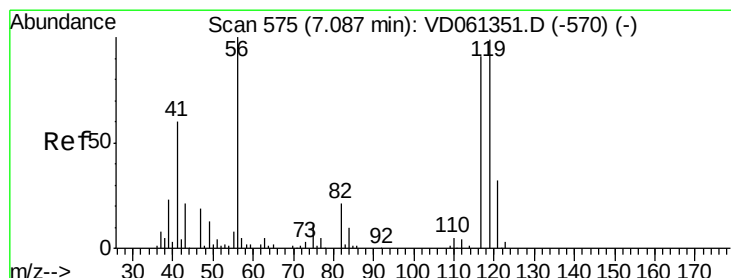
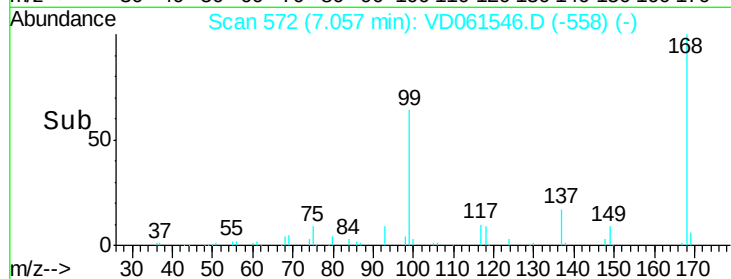
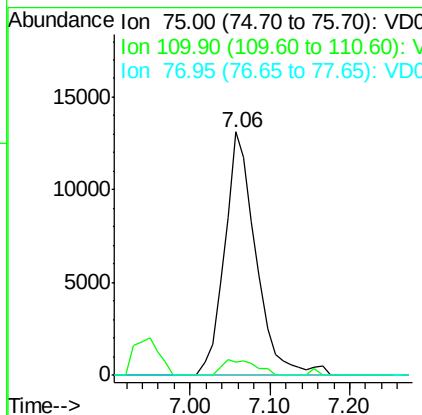
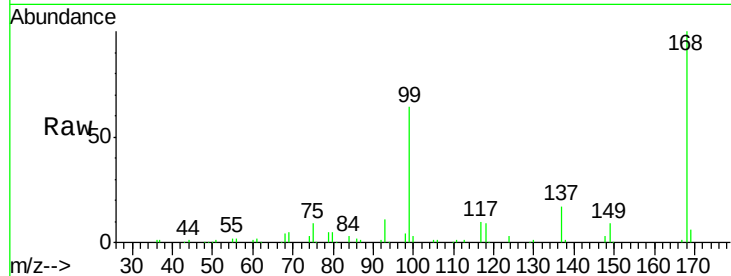
Delta R.T. -0.06 min

Lab File: VD061546.D

Acq: 3 Apr 2019 8:42

Instrument :  
MSVOA\_D  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 36021 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 5.6   | 20.4  | 61.3# |
| 77       | 0.0   | 24.9  | 37.3# |



#38

Carbon Tetrachloride

Concen: 5.679 ug/l

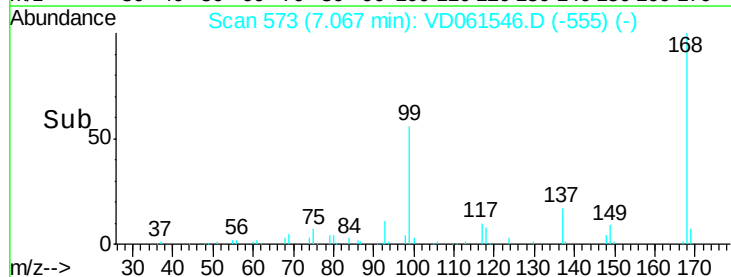
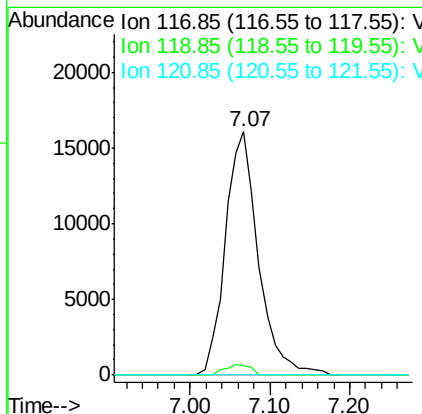
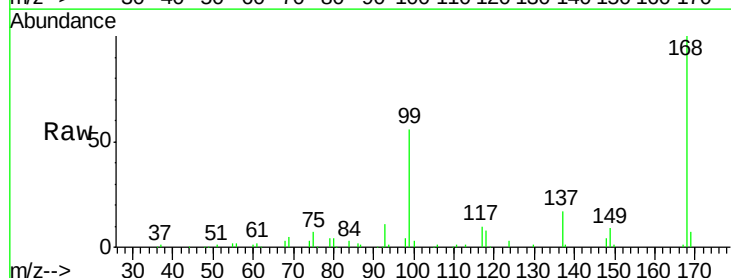
RT: 7.07 min Scan# 573

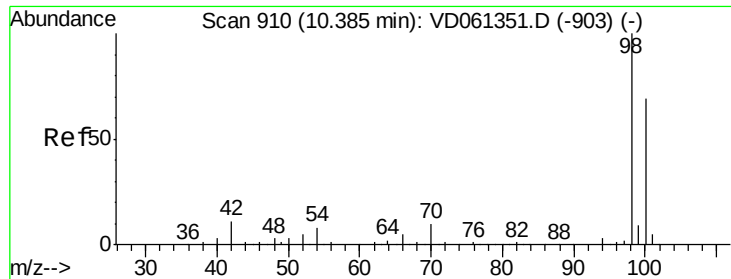
Delta R.T. -0.02 min

Lab File: VD061546.D

Acq: 3 Apr 2019 8:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 46663  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 3.7   | 80.1  | 120.1# |
| 121      | 0.0   | 25.6  | 38.4#  |

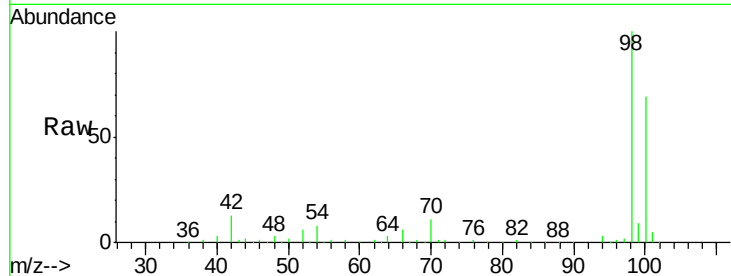




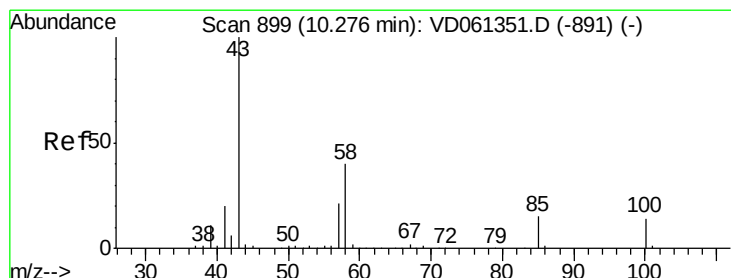
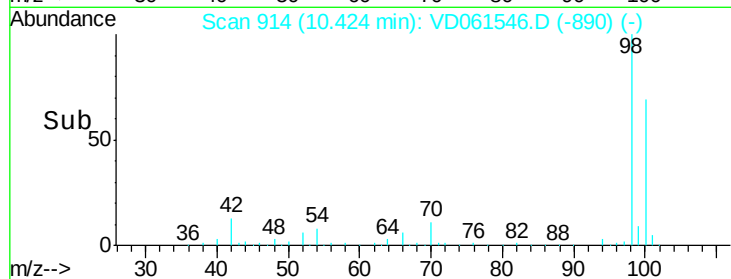
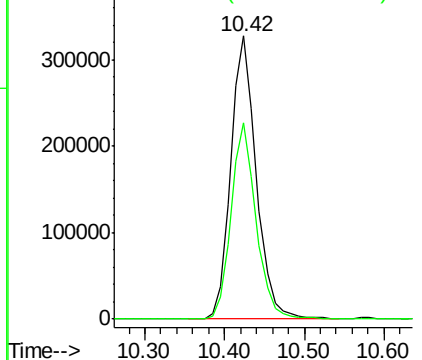
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.42 min Scan# 914  
Delta R.T. 0.04 min  
Lab File: VD061546.D  
Acq: 3 Apr 2019 8:42

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 98 Resp: 732033  
Ion Ratio Lower Upper  
98 100  
100 69.5 56.2 84.2

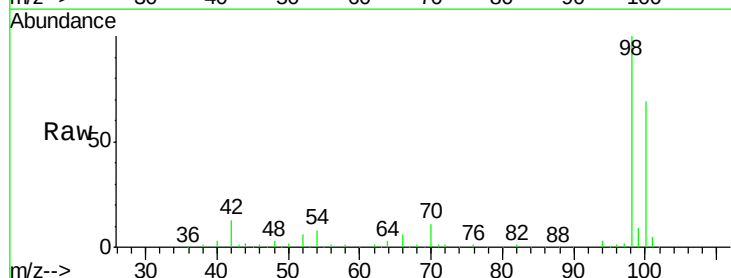


Abundance Ion 98.05 (97.75 to 98.75): VD061351.D (-903) (-)  
Ion 100.05 (99.75 to 100.75): VD061351.D (-903) (-)

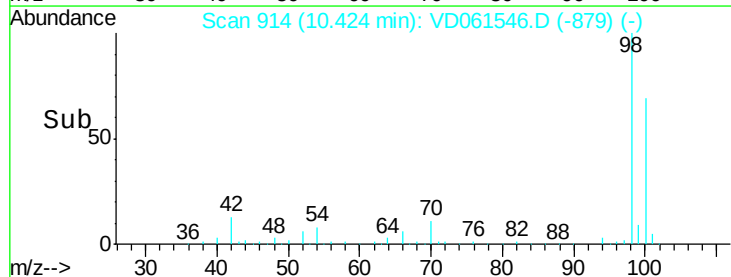
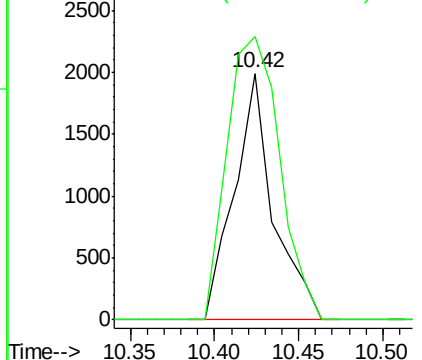


#51  
4-Methyl-2-Pentanone  
Concen: 1.187 ug/l  
RT: 10.42 min Scan# 914  
Delta R.T. 0.15 min  
Lab File: VD061546.D  
Acq: 3 Apr 2019 8:42

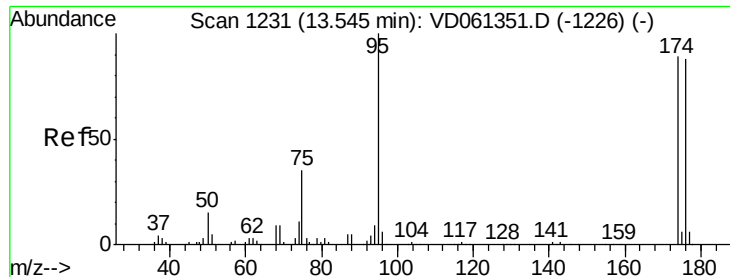
Tgt Ion: 43 Resp: 3214  
Ion Ratio Lower Upper  
43 100  
58 114.6 31.8 47.8#



Abundance Ion 42.95 (42.65 to 43.65): VD061351.D (-891) (-)  
Ion 57.95 (57.65 to 58.65): VD061351.D (-891) (-)



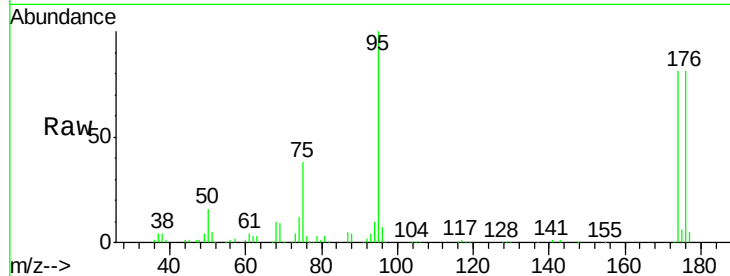




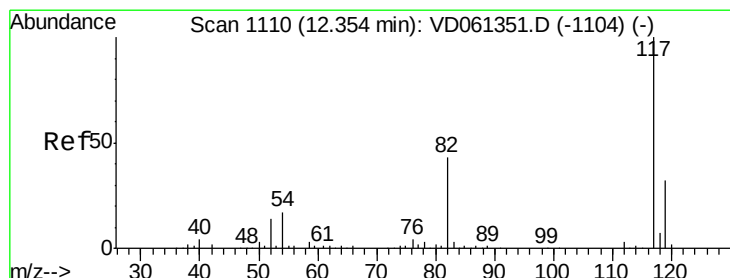
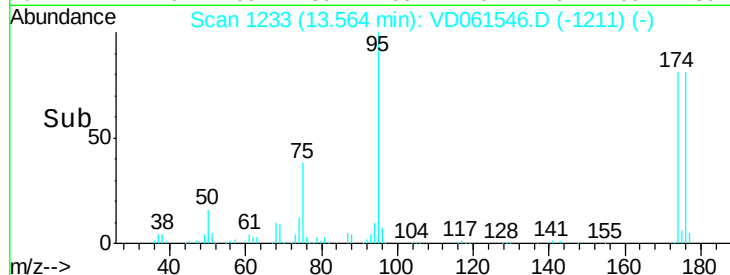
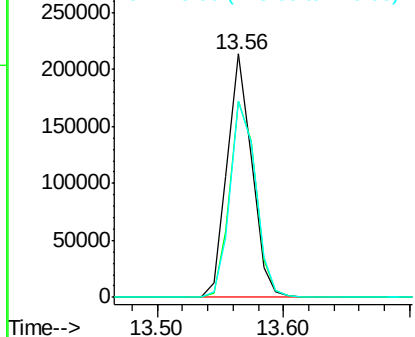
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 13.56 min Scan# 1233  
Delta R.T. 0.02 min  
Lab File: VD061546.D  
Acq: 3 Apr 2019 8:42

Instrument :  
MSVOA\_D  
ClientSampleID :

Tot Ion: 95 Resp: 290092  
Ion Ratio Lower Upper  
95 100  
174 80.7 0.0 178.0  
176 80.5 0.0 175.0

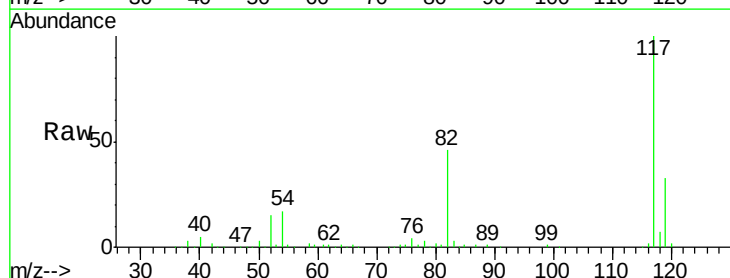


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

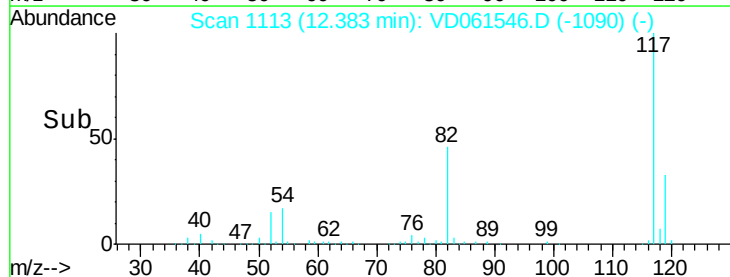
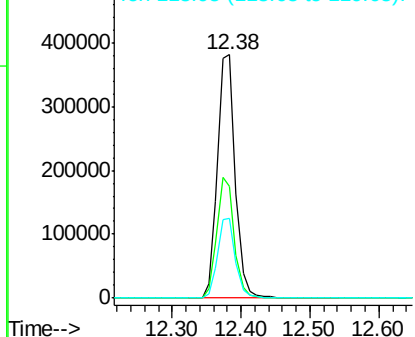


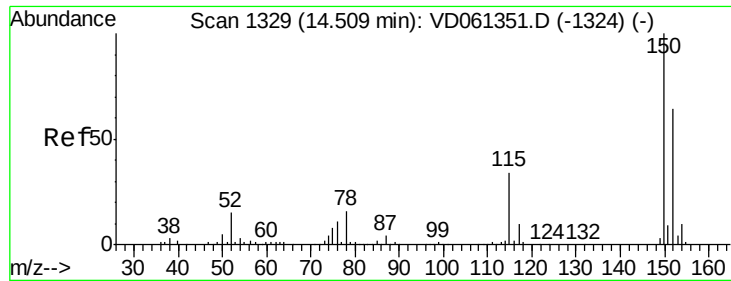
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.03 min  
Lab File: VD061546.D  
Acq: 3 Apr 2019 8:42

Tgt Ion: 117 Resp: 685310  
Ion Ratio Lower Upper  
117 100  
82 45.8 34.4 51.6  
119 33.0 25.8 38.6



Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



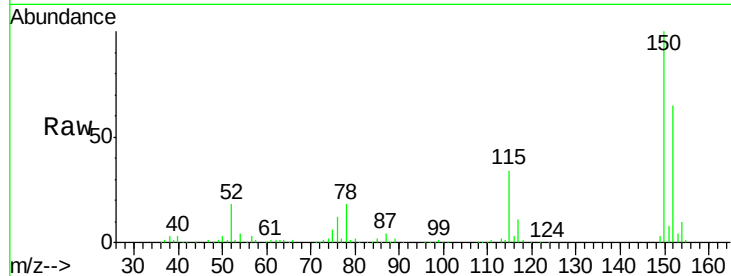


#72

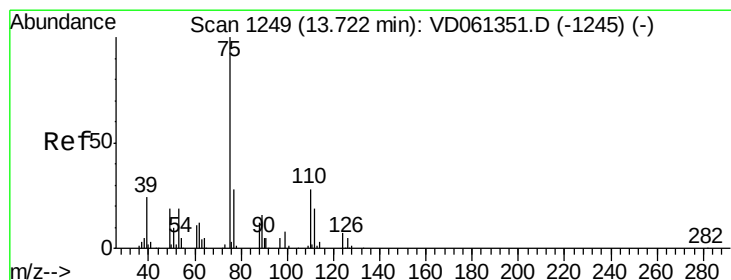
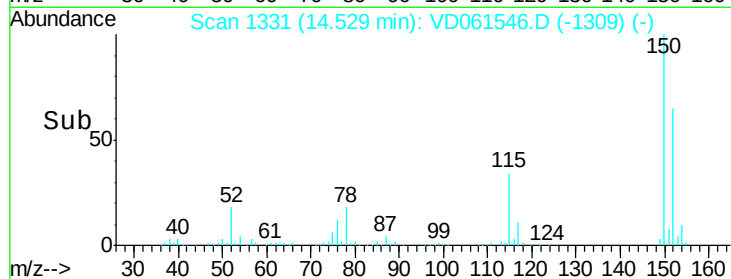
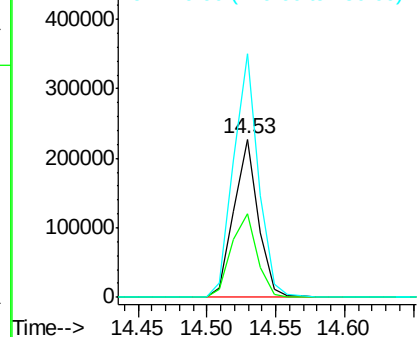
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.53 min Scan# 1331  
Delta R.T. 0.02 min  
Lab File: VD061546.D  
Acq: 3 Apr 2019 8:42

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:152 Resp: 280684  
Ion Ratio Lower Upper  
152 100  
115 53.1 26.9 80.6  
150 154.1 0.0 318.0



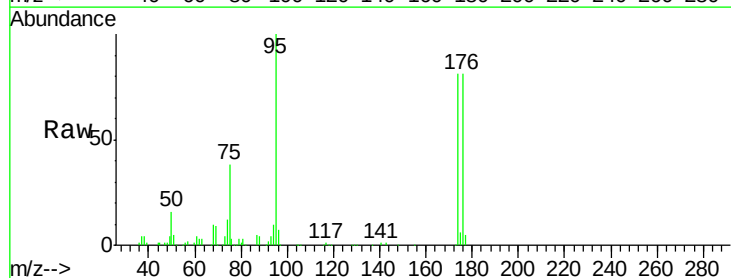
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V



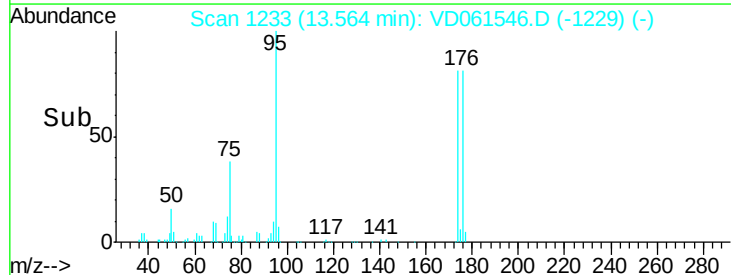
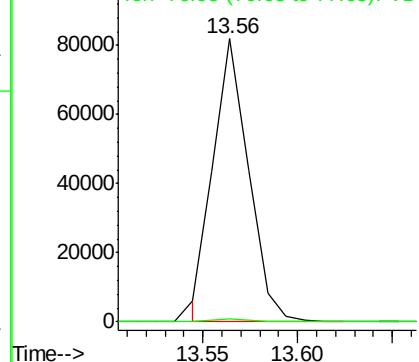
#76

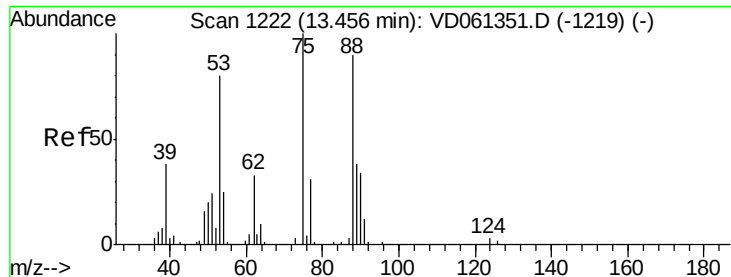
1,2,3-Trichloropropane  
Concen: 26.171 ug/l  
RT: 13.56 min Scan# 1233  
Delta R.T. -0.16 min  
Lab File: VD061546.D  
Acq: 3 Apr 2019 8:42

Tgt Ion: 75 Resp: 106112  
Ion Ratio Lower Upper  
75 100  
77 1.3 16.2 48.5#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 88.726 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.11 min

Lab File: VD061546.D

Acq: 3 Apr 2019 8:42

Instrument :

MSVOA\_D

ClientSampleId :

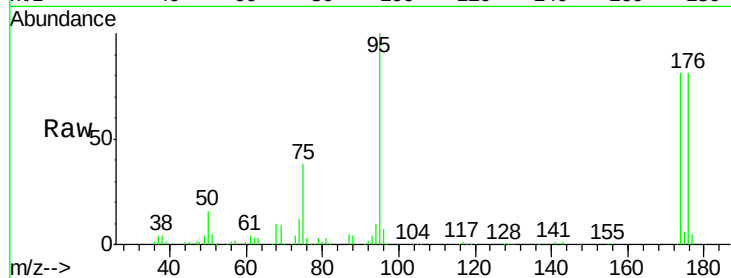
Tot Ion: 75 Resp: 109686

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

