

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD121718\  
 Data File : VD060611.D  
 Acq On : 17 Dec 2018 20:45  
 Operator : VA/AP  
 Sample : J6445-06  
 Misc : 4.6g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

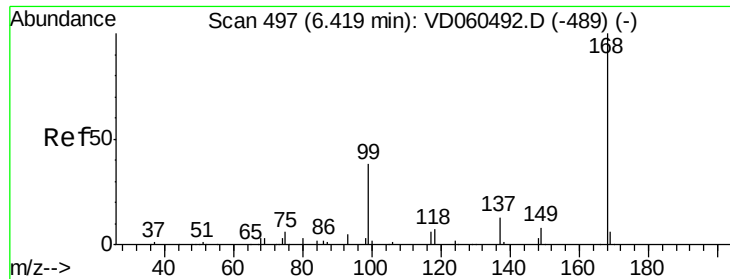
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EB05\_1.5-3.5

Quant Time: Dec 18 11:18:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 6.42  | 168  | 849362   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 7.46  | 114  | 1282504  | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.30 | 117  | 1011872  | 50.00     | ug/l    | 0.01     |
| 72) 1,4-Dichlorobenzene-d4     | 13.38 | 152  | 439201   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.80  | 65   | 439378   | 72.98     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 145.96% |          |
| 35) Dibromofluoromethane       | 6.34  | 113  | 542725   | 57.61     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 115.22% |          |
| 50) Toluene-d8                 | 9.46  | 98   | 1369105  | 50.22     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.44% |          |
| 62) 4-Bromofluorobenzene       | 12.44 | 95   | 434724   | 44.57     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 89.14%  |          |
| Target Compounds               |       |      |          |           |         |          |
| 16) Acetone                    | 3.17  | 43   | 16749    | 17.357    | ug/l    | 96       |
| 31) Cyclohexane                | 6.41  | 56   | 16018    | Below Cal | #       | 1        |
| 36) 1,1-Dichloropropene        | 6.41  | 75   | 62258    | 4.966     | ug/l #  | 46       |
| 38) Carbon Tetrachloride       | 6.41  | 117  | 65882    | 5.854     | ug/l #  | 16       |
| 51) 4-Methyl-2-Pentanone       | 9.46  | 43   | 7178     | 1.719     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.44 | 75   | 170354   | 34.232    | ug/l #  | 45       |
| 81) trans-1,4-Dichloro-2-buten | 12.44 | 75   | 184388   | 132.850   | ug/l #  | 14       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.42 min Scan# 498

Delta R.T. 0.00 min

Lab File: VD060611.D

Acq: 17 Dec 2018 20:45

Instrument :

MSVOA\_D

ClientSampleId :

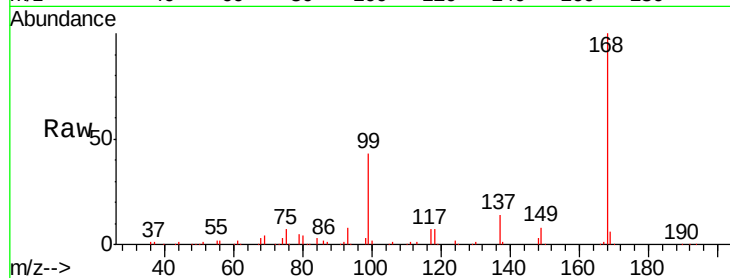
EB05\_1.5-3.5

Tgt Ion:168 Resp: 849362

Ion Ratio Lower Upper

168 100

99 43.0 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.42

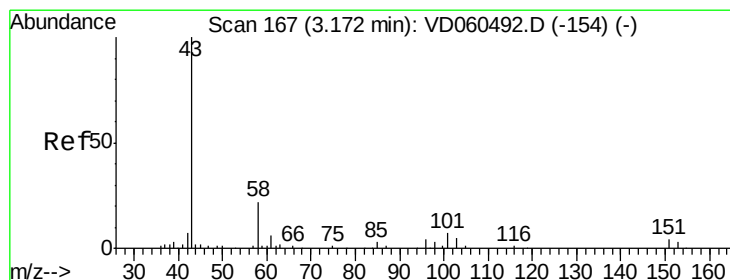
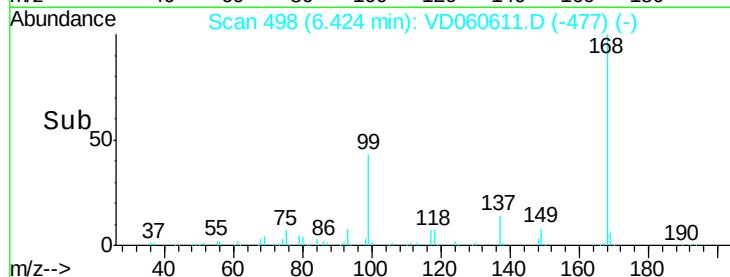
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 17.357 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.01 min

Lab File: VD060611.D

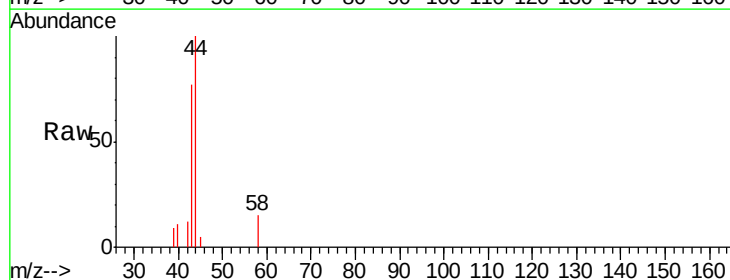
Acq: 17 Dec 2018 20:45

Tgt Ion: 43 Resp: 16749

Ion Ratio Lower Upper

43 100

58 19.7 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.17

5000

4000

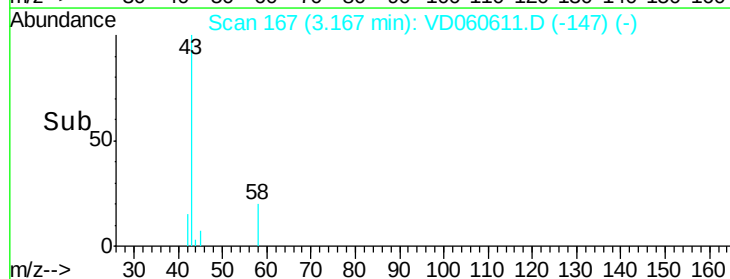
3000

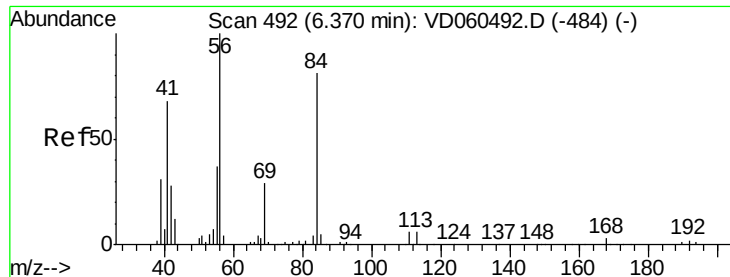
2000

1000

0

Time-->

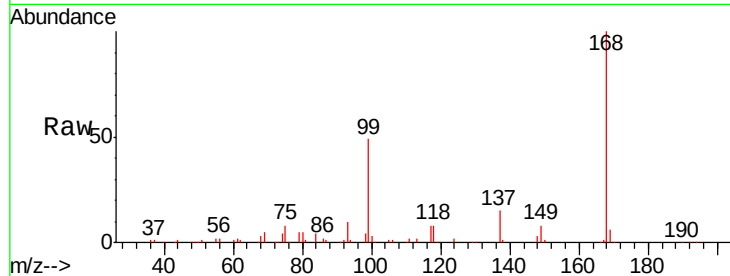




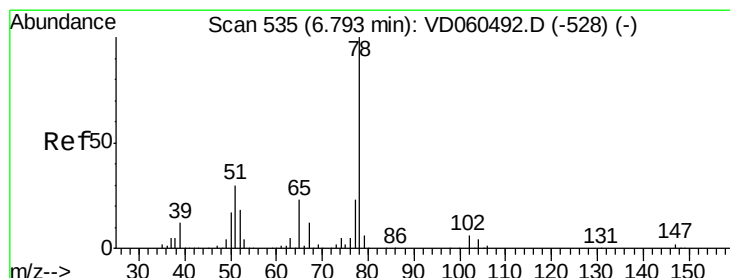
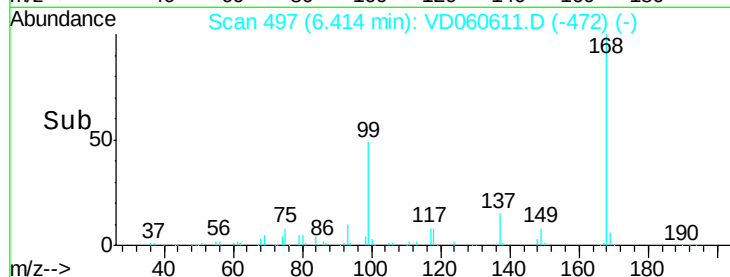
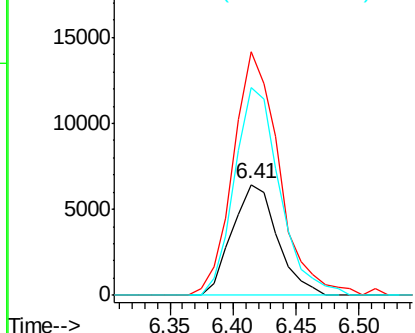
#31  
Cyclohexane  
Concen: Below Cal  
RT: 6.41 min Scan# 497  
Delta R.T. 0.04 min  
Lab File: VD060611.D  
Acq: 17 Dec 2018 20:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
EB05\_1.5-3.5

Tgt Ion: 56 Resp: 16018  
Ion Ratio Lower Upper  
56 100  
69 219.4 22.8 34.2#  
84 187.5 65.1 97.7#

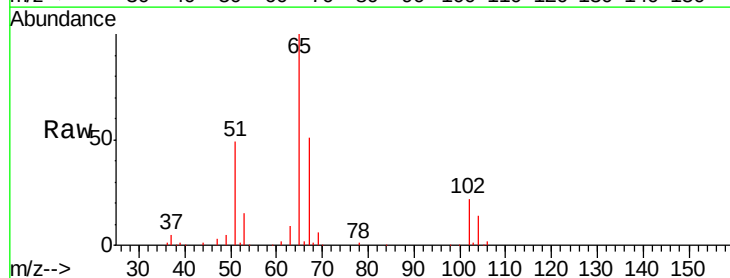


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

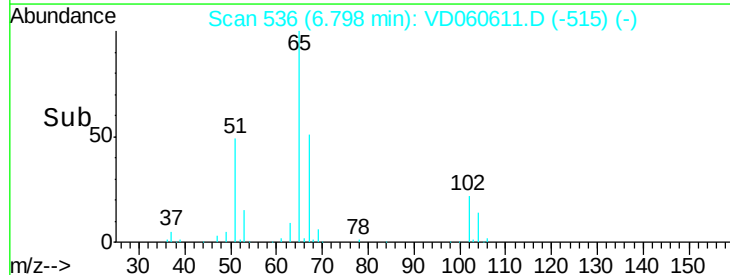
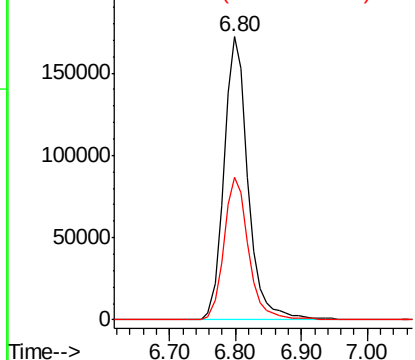


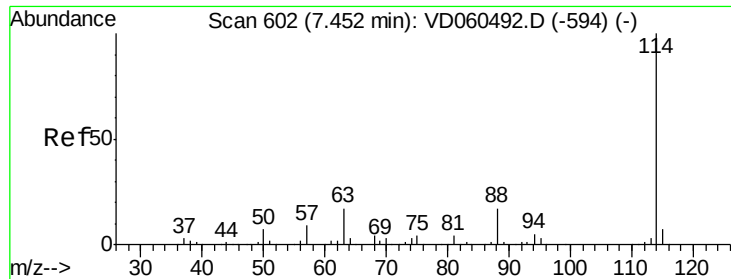
#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 6.80 min Scan# 536  
Delta R.T. 0.00 min  
Lab File: VD060611.D  
Acq: 17 Dec 2018 20:45

Tgt Ion: 65 Resp: 439378  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 106.8



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

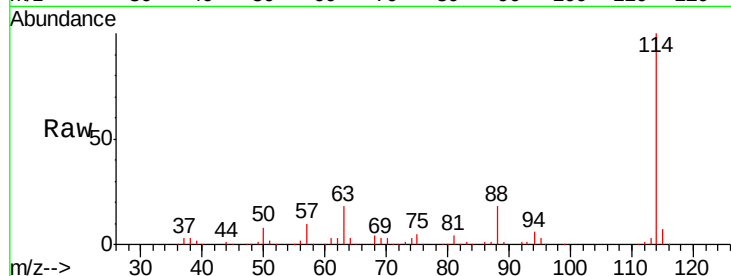




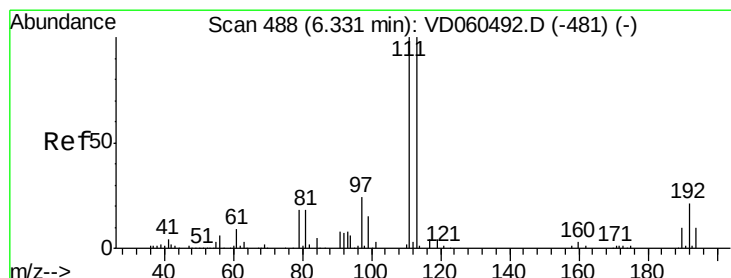
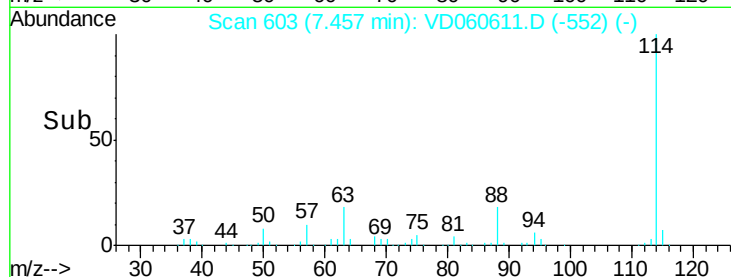
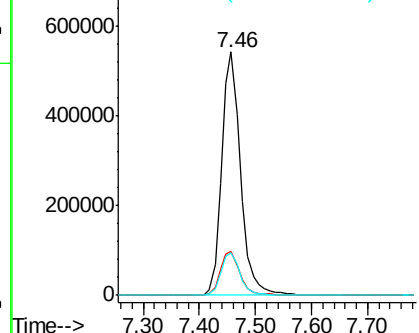
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.46 min Scan# 603  
 Delta R.T. 0.00 min  
 Lab File: VD060611.D  
 Acq: 17 Dec 2018 20:45

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EB05\_1.5-3.5

Tgt Ion:114 Resp: 1282504  
 Ion Ratio Lower Upper  
 114 100  
 63 18.1 0.0 34.2  
 88 17.6 0.0 35.0

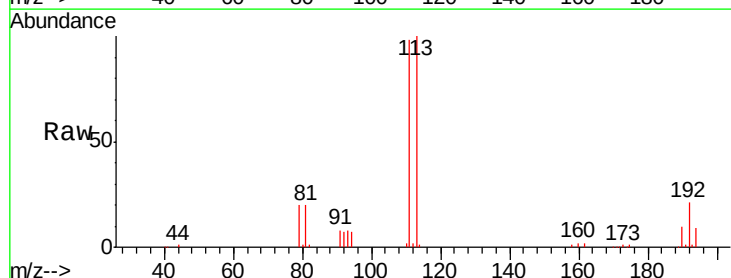


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

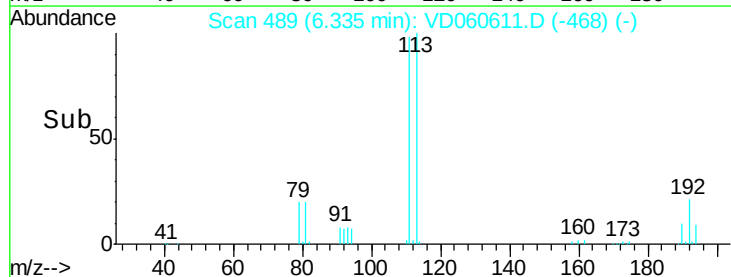
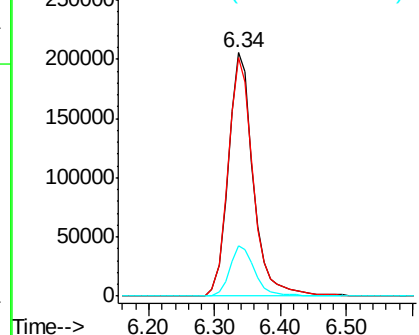


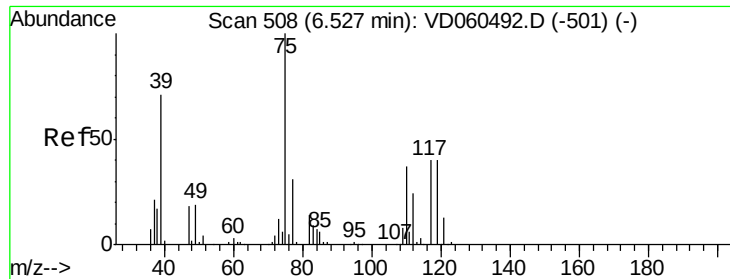
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.34 min Scan# 489  
 Delta R.T. 0.00 min  
 Lab File: VD060611.D  
 Acq: 17 Dec 2018 20:45

Tgt Ion:113 Resp: 542725  
 Ion Ratio Lower Upper  
 113 100  
 111 97.9 80.2 120.4  
 192 20.6 16.6 24.8



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

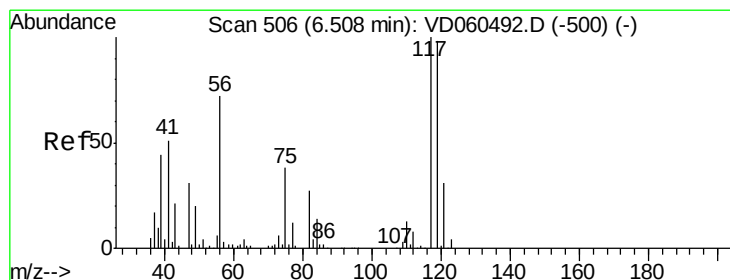
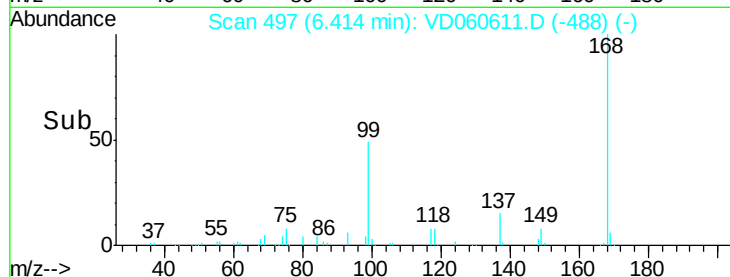
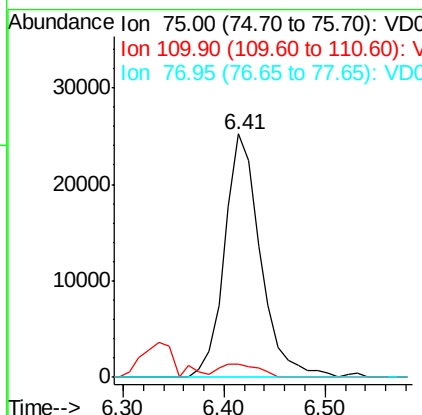
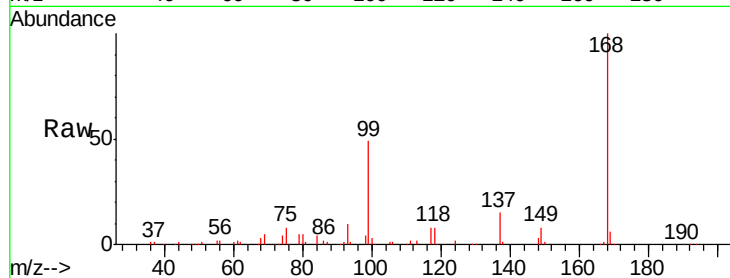




#36  
 1,1-Dichloropropene  
 Concen: 4.966 ug/l  
 RT: 6.41 min Scan# 497  
 Delta R.T. -0.11 min  
 Lab File: VD060611.D  
 Acq: 17 Dec 2018 20:45

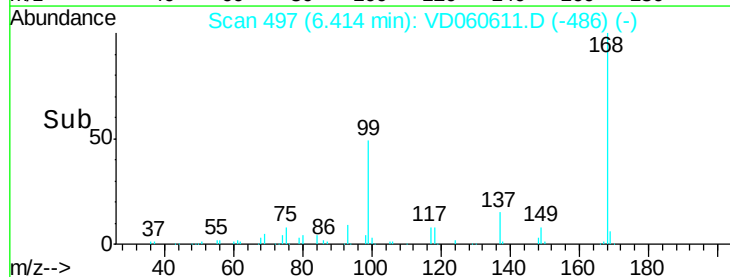
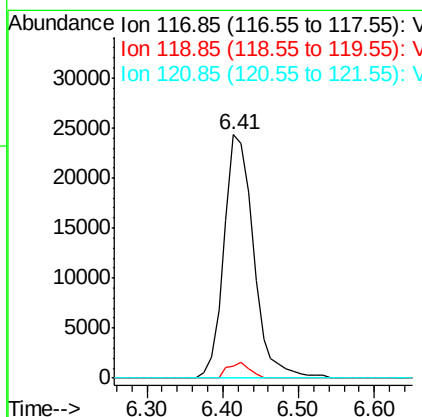
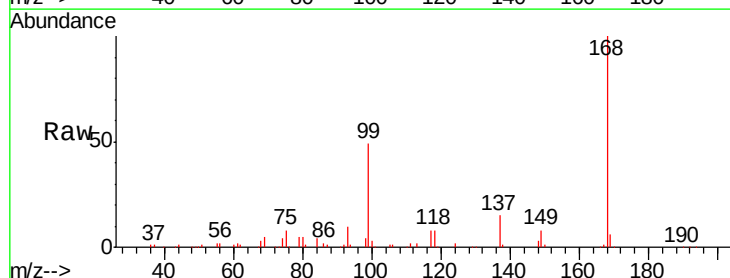
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EB05\_1.5-3.5

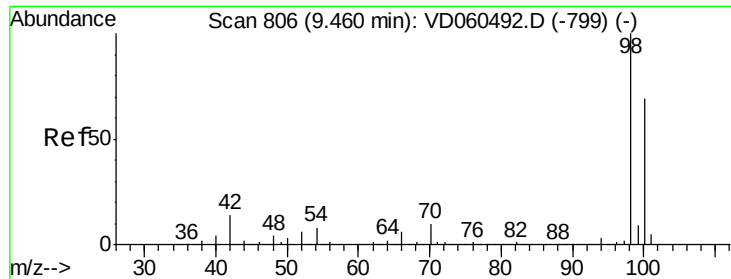
Tgt Ion: 75 Resp: 62258  
 Ion Ratio Lower Upper  
 75 100  
 110 5.4 18.3 54.8#  
 77 0.0 24.6 37.0#



#38  
 Carbon Tetrachloride  
 Concen: 5.854 ug/l  
 RT: 6.41 min Scan# 497  
 Delta R.T. -0.09 min  
 Lab File: VD060611.D  
 Acq: 17 Dec 2018 20:45

Tgt Ion: 117 Resp: 65882  
 Ion Ratio Lower Upper  
 117 100  
 119 4.7 76.8 115.2#  
 121 0.0 24.4 36.6#

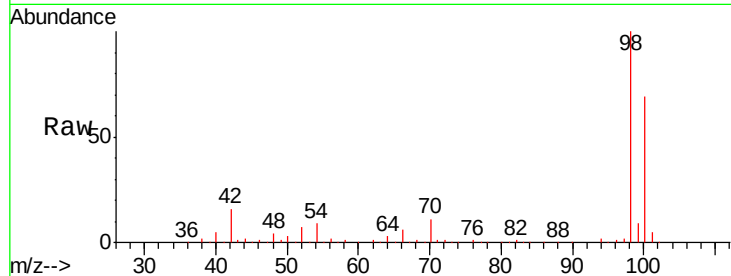




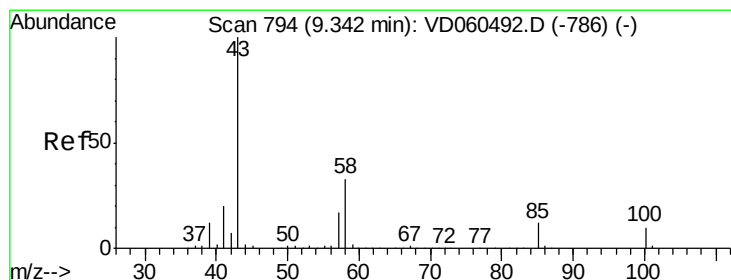
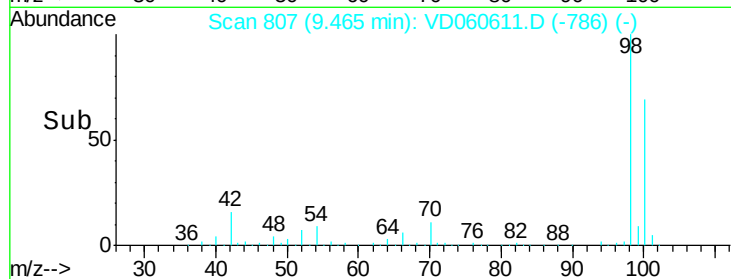
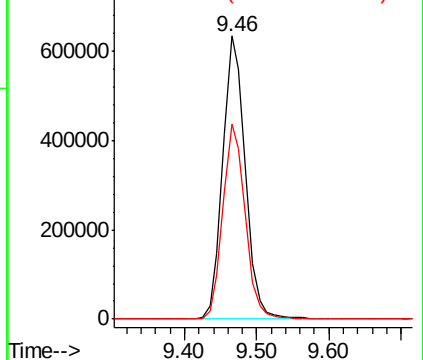
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.46 min Scan# 807  
Delta R.T. 0.00 min  
Lab File: VD060611.D  
Acq: 17 Dec 2018 20:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
EB05\_1.5-3.5

Tgt Ion: 98 Resp: 1369105  
Ion Ratio Lower Upper  
98 100  
100 68.8 55.7 83.5

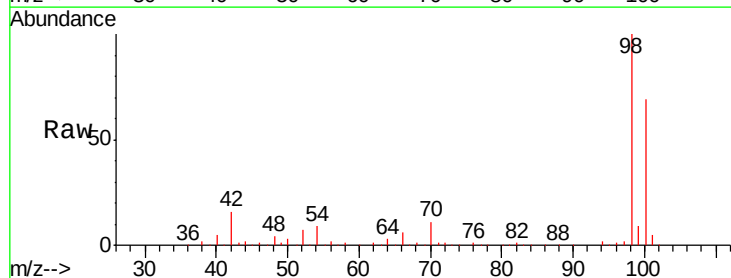


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

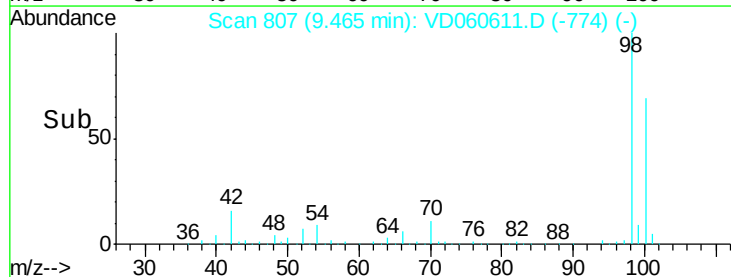
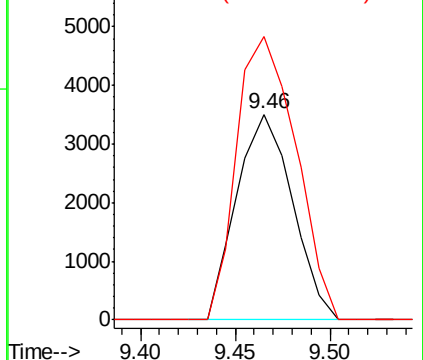


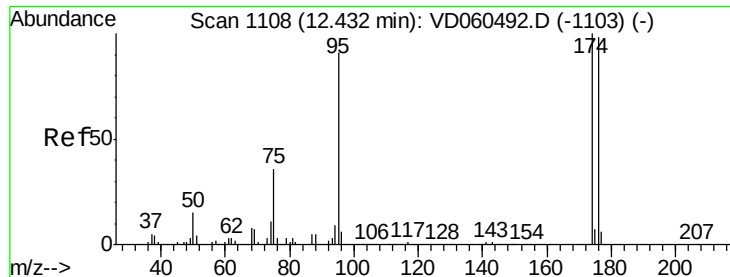
#51  
4-Methyl-2-Pentanone  
Concen: 1.719 ug/l  
RT: 9.46 min Scan# 807  
Delta R.T. 0.12 min  
Lab File: VD060611.D  
Acq: 17 Dec 2018 20:45

Tgt Ion: 43 Resp: 7178  
Ion Ratio Lower Upper  
43 100  
58 137.5 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.44 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VD060611.D

Acq: 17 Dec 2018 20:45

Instrument :

MSVOA\_D

ClientSampleId :

EB05\_1.5-3.5

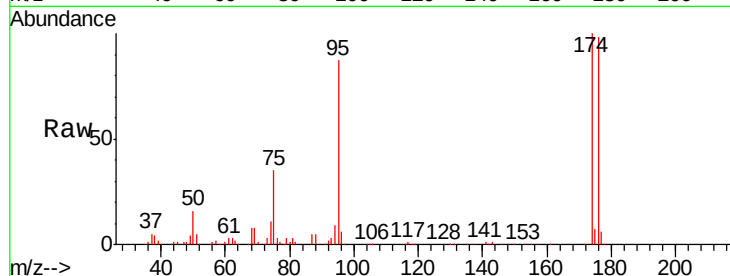
Tgt Ion: 95 Resp: 434724

Ion Ratio Lower Upper

95 100

174 114.9 0.0 219.4

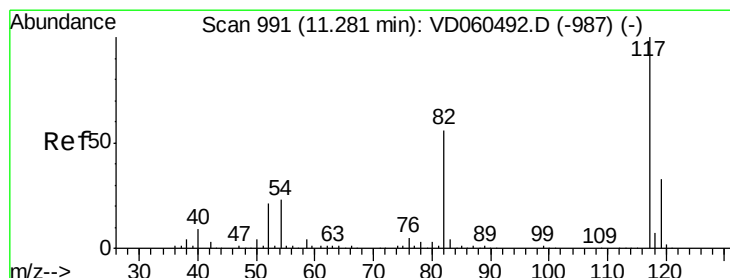
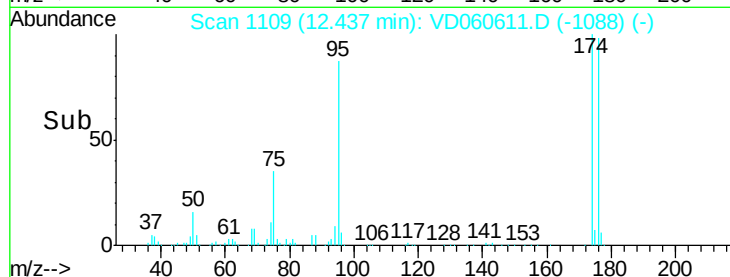
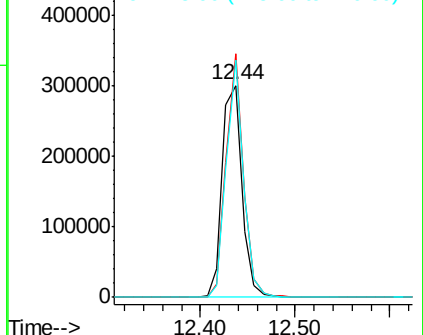
176 112.2 0.0 214.6



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: 11.30 min Scan# 993

Delta R.T. 0.01 min

Lab File: VD060611.D

Acq: 17 Dec 2018 20:45

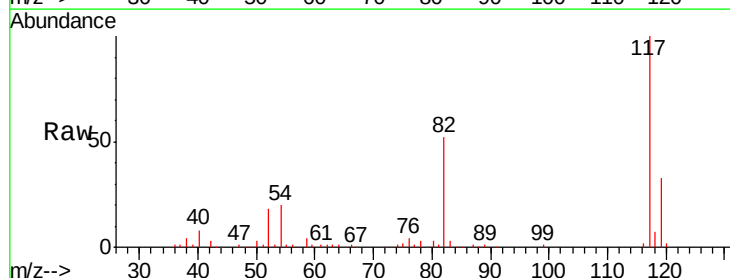
Tgt Ion: 117 Resp: 1011872

Ion Ratio Lower Upper

117 100

82 52.0 45.2 67.8

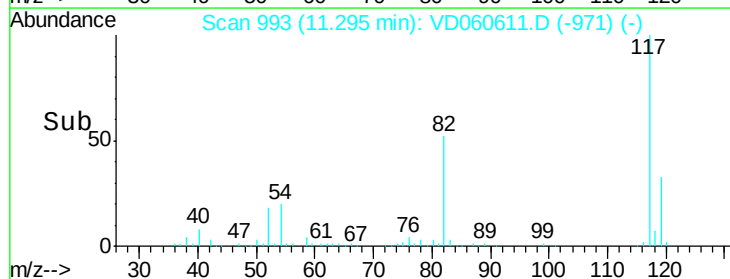
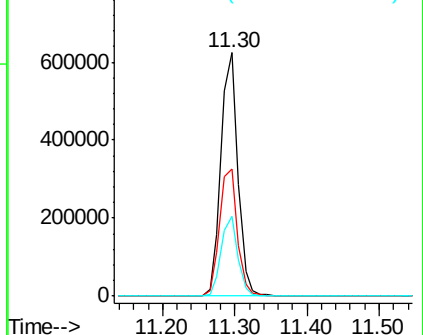
119 32.6 26.1 39.1



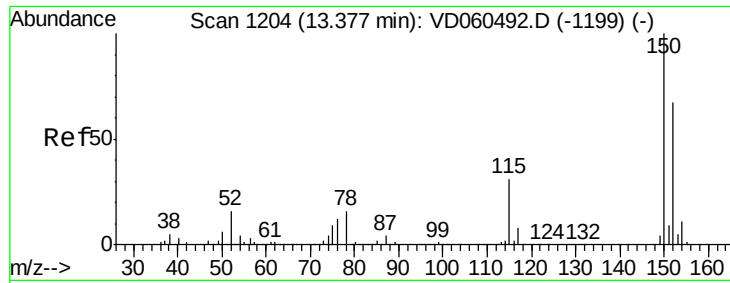
Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.38 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VD060611.D

Acq: 17 Dec 2018 20:45

Instrument :

MSVOA\_D

ClientSampleId :

EB05\_1.5-3.5

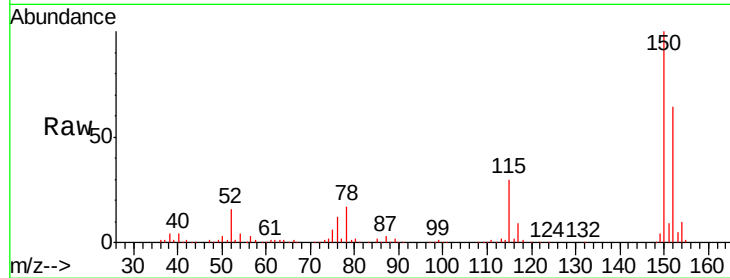
Tgt Ion:152 Resp: 439201

Ion Ratio Lower Upper

152 100

115 47.4 24.6 74.0

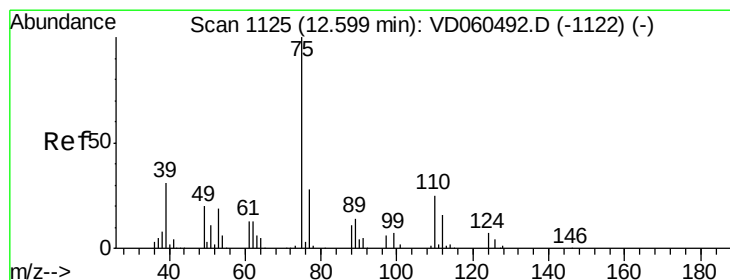
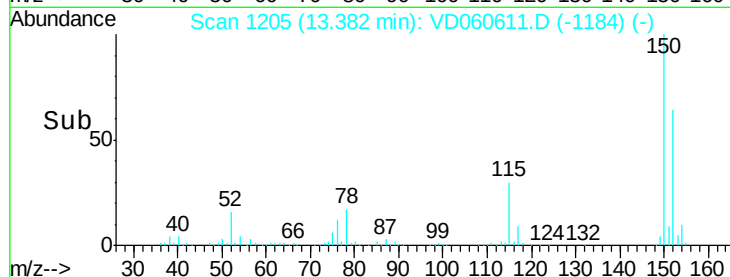
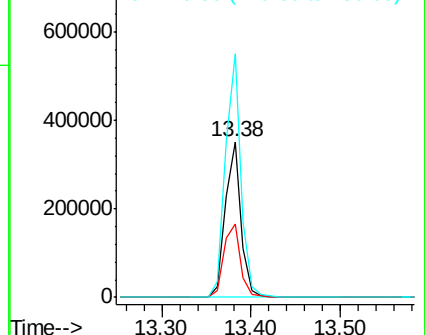
150 156.2 0.0 309.0



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: 34.232 ug/l

RT: 12.44 min Scan# 1109

Delta R.T. -0.16 min

Lab File: VD060611.D

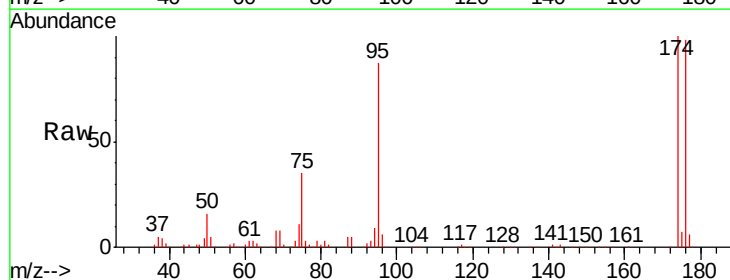
Acq: 17 Dec 2018 20:45

Tgt Ion: 75 Resp: 170354

Ion Ratio Lower Upper

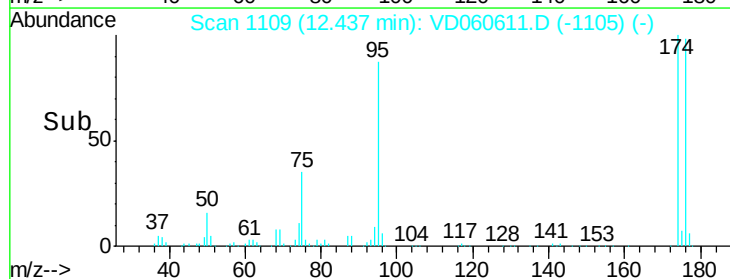
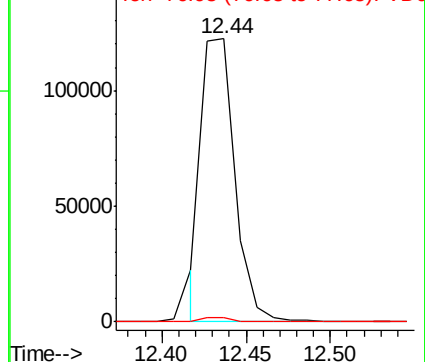
75 100

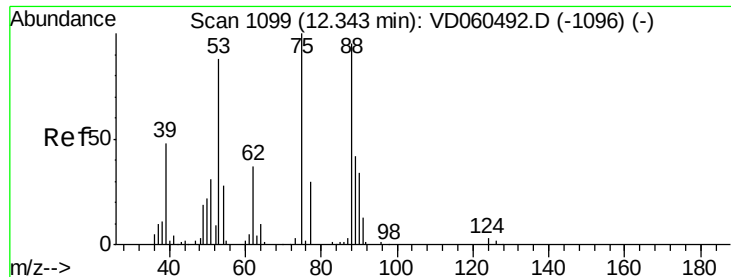
77 1.6 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 132.850 ug/l

RT: 12.44 min Scan# 1109

Delta R.T. 0.09 min

Lab File: VD060611.D

Acq: 17 Dec 2018 20:45

Instrument :

MSVOA\_D

ClientSampleId :

EB05\_1.5-3.5

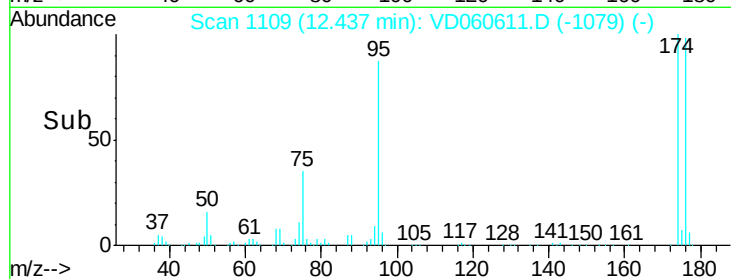
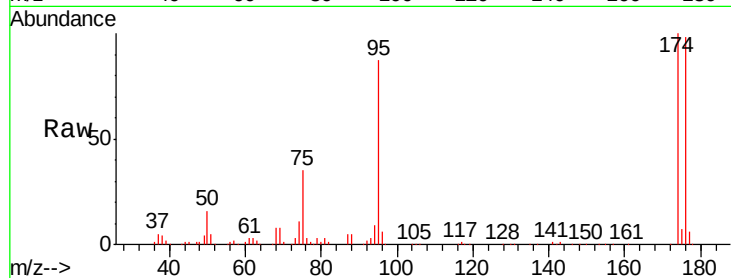
Tgt Ion: 75 Resp: 184388

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

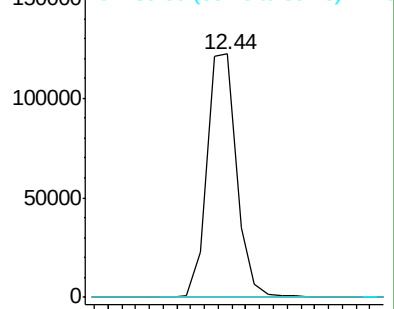
89 0.0 33.6 50.4#



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



Time-->