

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041119\  
 Data File : VD061752.D  
 Acq On : 11 Apr 2019 20:24  
 Operator : VA/AP  
 Sample : K2344-01  
 Misc : 5.07g/5ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 12 01:03:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 08 10:04:03 2019  
 Response via : Initial Calibration

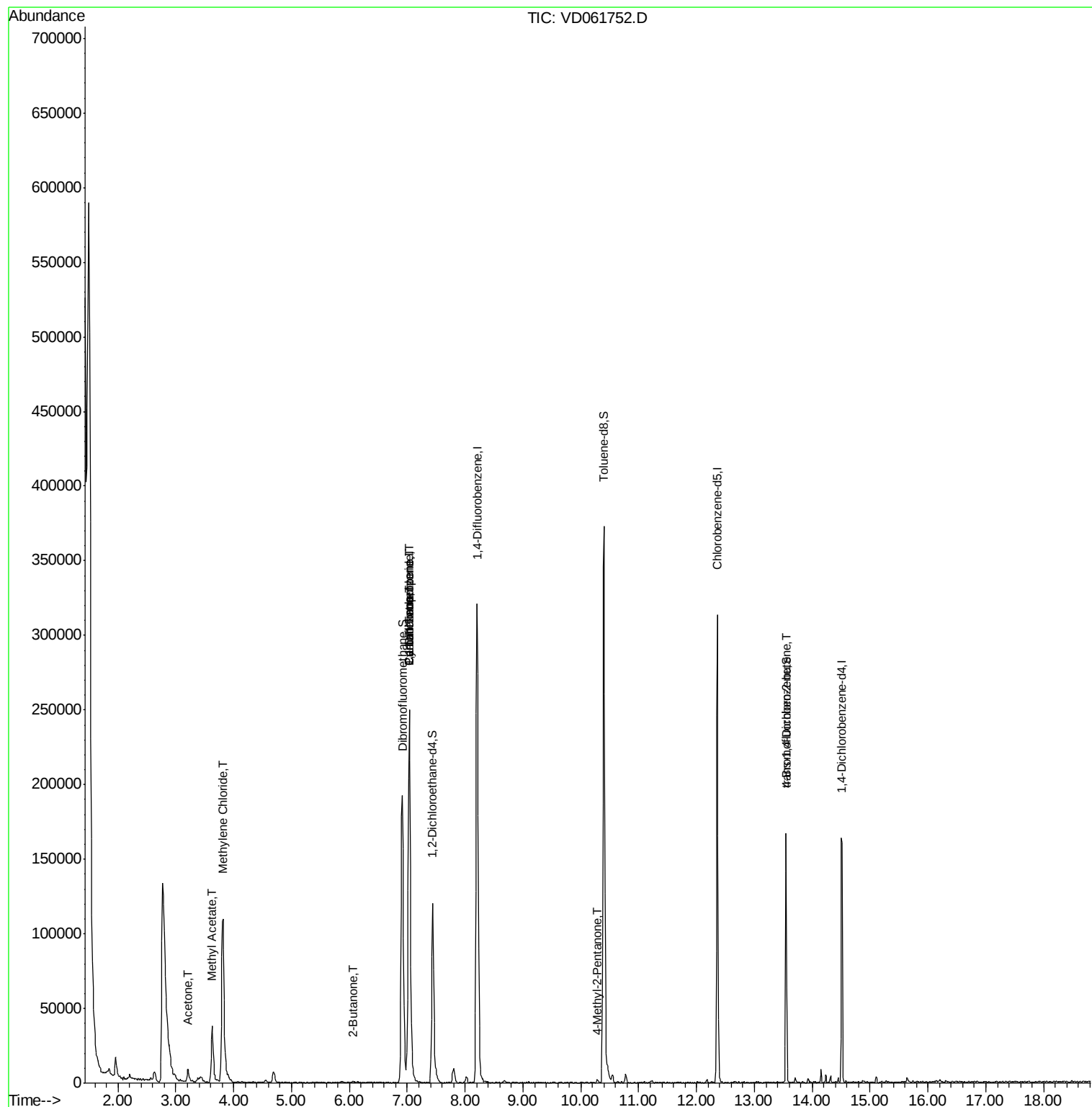
| Internal Standards             | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.03   | 168  | 252355   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.20   | 114  | 397193   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 12.36  | 117  | 195774   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 14.51  | 152  | 42918    | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.44   | 65   | 121157   | 63.34   | ug/l    | -0.01    |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 126.68% |          |
| 35) Dibromofluoromethane       | 6.91   | 113  | 184587   | 67.08   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 134.16% |          |
| 50) Toluene-d8                 | 10.40  | 98   | 335956   | 48.60   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 97.20%  |          |
| 62) 4-Bromofluorobenzene       | 13.55  | 95   | 55923    | 20.11   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 40.22%  |          |
| Target Compounds               |        |      |          |         |         |          |
| 16) Acetone                    | 3.20   | 43   | 18034    | 31.538  | ug/l    | 90       |
| 18) Methyl Acetate             | 3.63   | 43   | 67672    | 62.902  | ug/l    | 100      |
| 20) Methylene Chloride         | 3.80   | 84   | 91997    | 28.352  | ug/l    | 96       |
| 25) 2-Butanone                 | 6.06   | 43   | 1068     | 1.620   | ug/l #  | 54       |
| 31) Cyclohexane                | 7.03   | 56   | 4309     | 1.196   | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.03   | 75   | 18499    | 5.322   | ug/l #  | 43       |
| 38) Carbon Tetrachloride       | 7.03   | 117  | 24257    | 5.954   | ug/l #  | 14       |
| 51) 4-Methyl-2-Pentanone       | 10.29  | 43   | 2737     | 2.252   | ug/l    | 88       |
| 81) trans-1,4-Dichloro-2-buten | 13.55  | 75   | 20851    | 117.678 | ug/l #  | 20       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD041119\  
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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Apr 12 01:03:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260  
QLast Update : Mon Apr 08 10:04:03 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD061752.D

Acq: 11 Apr 2019 20:24

Instrument :

MSVOA\_D

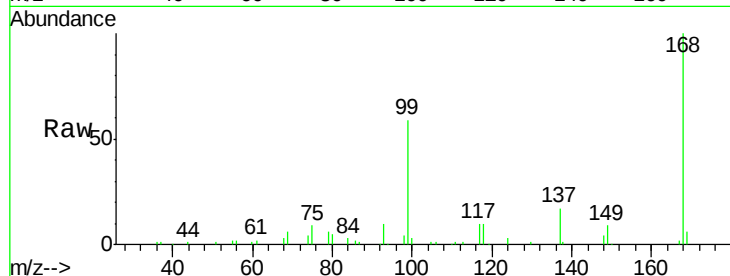
ClientSampleId :

Tot Ion:168 Resp: 252355

Ion Ratio Lower Upper

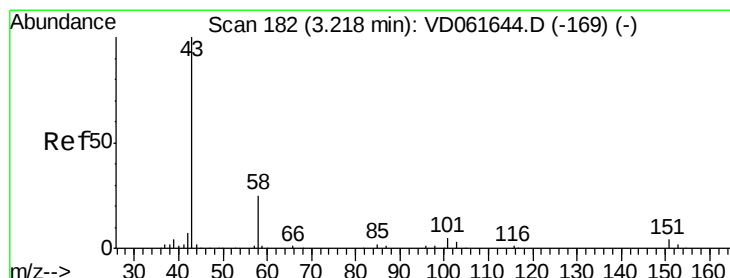
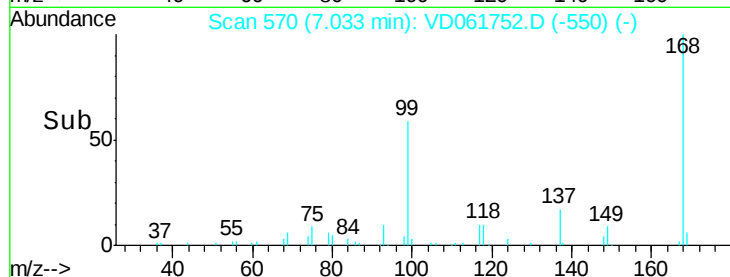
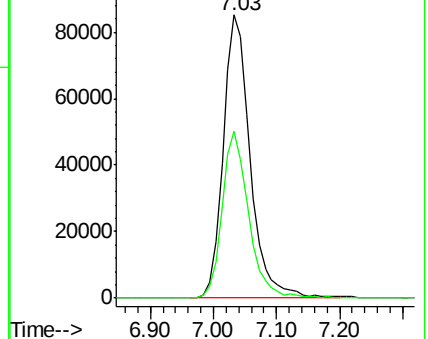
168 100

99 59.1 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 31.538 ug/l

RT: 3.20 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD061752.D

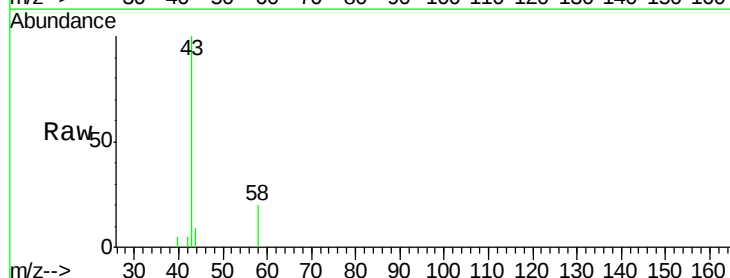
Acq: 11 Apr 2019 20:24

Tgt Ion: 43 Resp: 18034

Ion Ratio Lower Upper

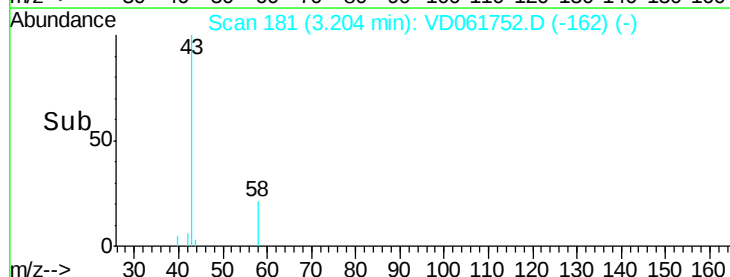
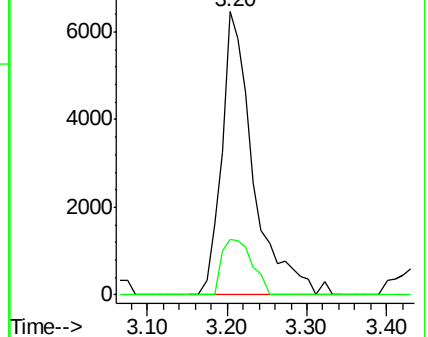
43 100

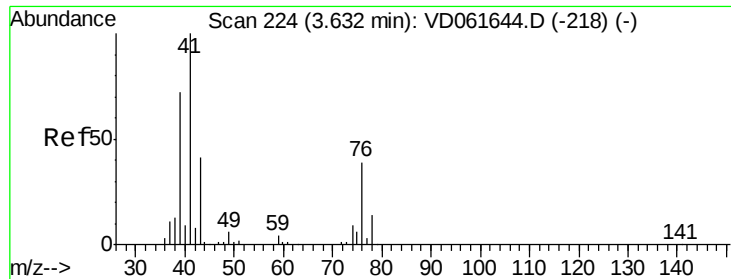
58 19.8 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

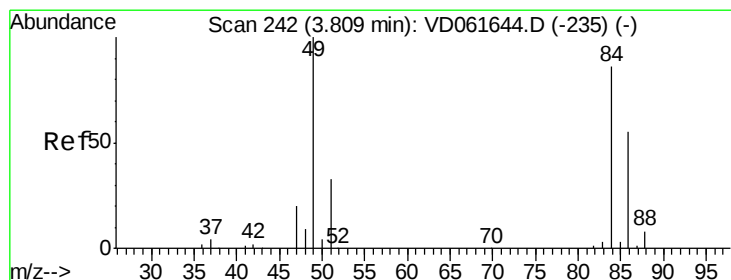
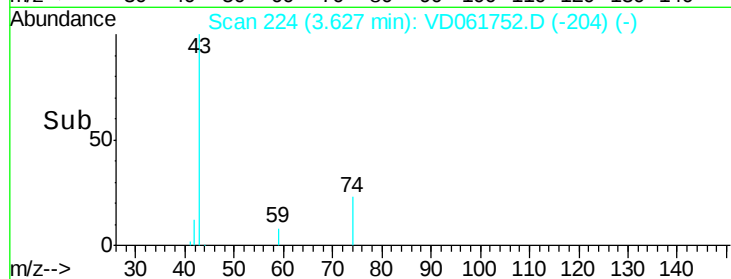
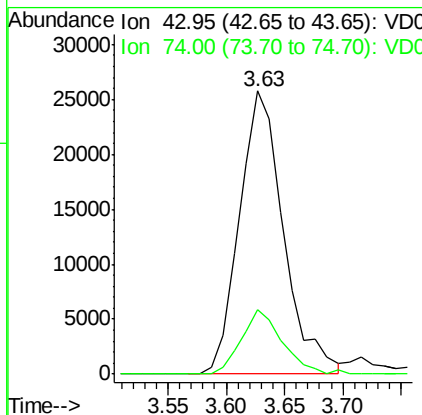
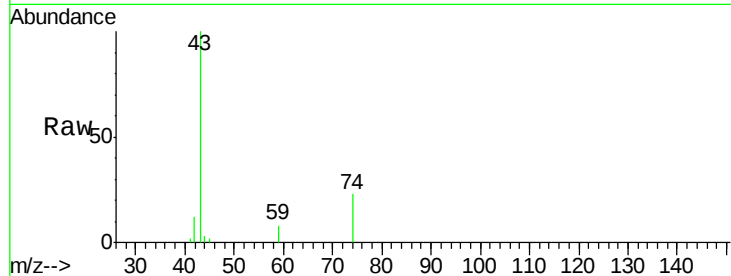




#18  
Methyl Acetate  
Concen: 62.902 ug/l  
RT: 3.63 min Scan# 224  
Delta R.T. -0.00 min  
Lab File: VD061752.D  
Acq: 11 Apr 2019 20:24

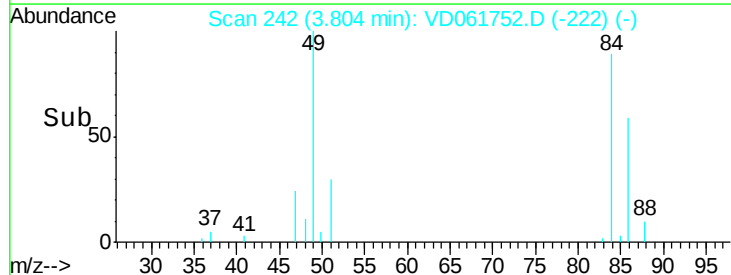
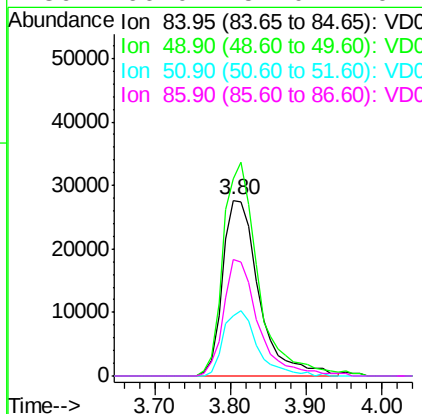
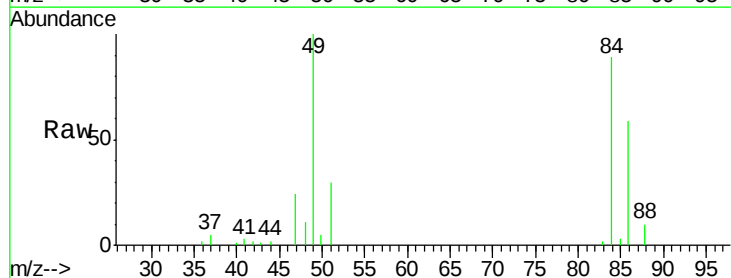
Instrument :  
MSVOA\_D  
ClientSampled :

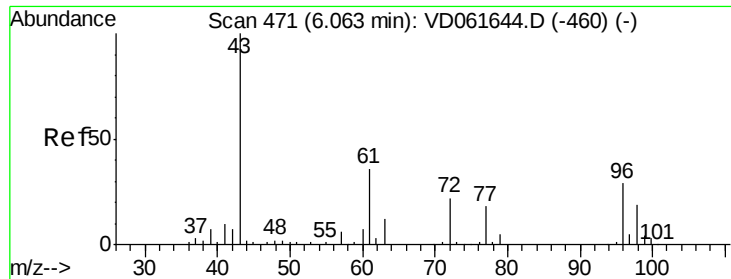
Tot Ion: 43 Resp: 67672  
Ion Ratio Lower Upper  
43 100  
74 22.6 18.2 27.2



#20  
Methylene Chloride  
Concen: 28.352 ug/l  
RT: 3.80 min Scan# 242  
Delta R.T. -0.00 min  
Lab File: VD061752.D  
Acq: 11 Apr 2019 20:24

Tgt Ion: 84 Resp: 91997  
Ion Ratio Lower Upper  
84 100  
49 112.4 93.0 139.4  
51 34.3 30.4 45.6  
86 66.0 51.0 76.4





#25

2-Butanone

Concen: 1.620 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD061752.D

Acq: 11 Apr 2019 20:24

Instrument :

MSVOA\_D

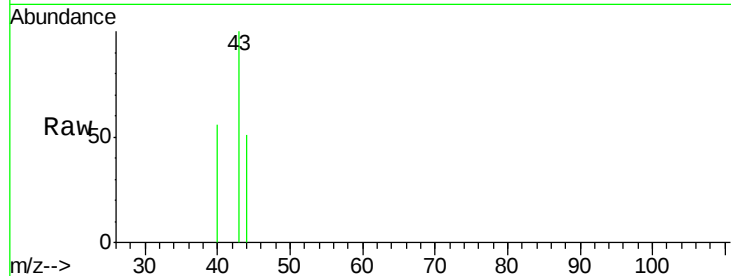
ClientSampleId :

Tot Ion: 43 Resp: 1068

Ion Ratio Lower Upper

43 100

72 0.0 17.4 26.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.06

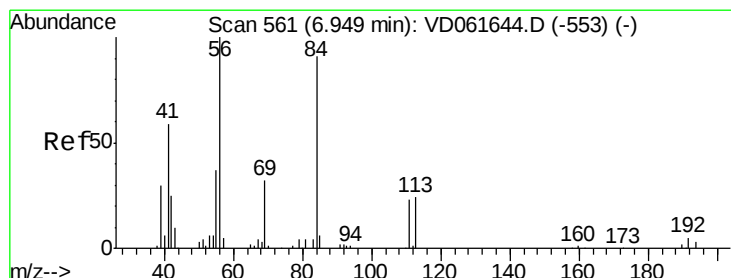
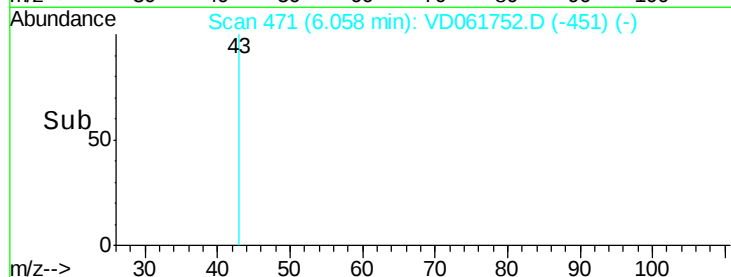
400

200

0

6.00 6.05 6.10

Time-->



#31

Cyclohexane

Concen: 1.196 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.08 min

Lab File: VD061752.D

Acq: 11 Apr 2019 20:24

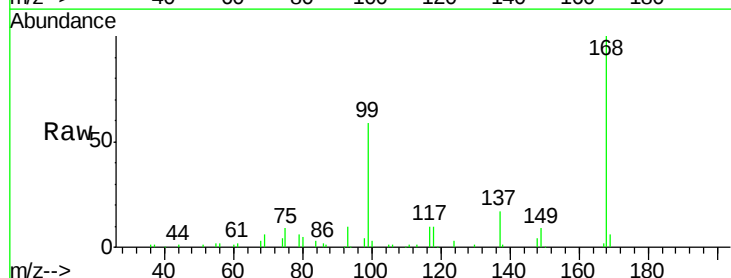
Tgt Ion: 56 Resp: 4309

Ion Ratio Lower Upper

56 100

69 305.5 25.8 38.6#

84 153.2 74.2 111.2#



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

6000

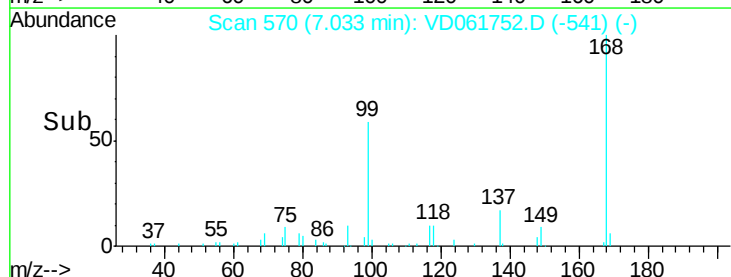
4000

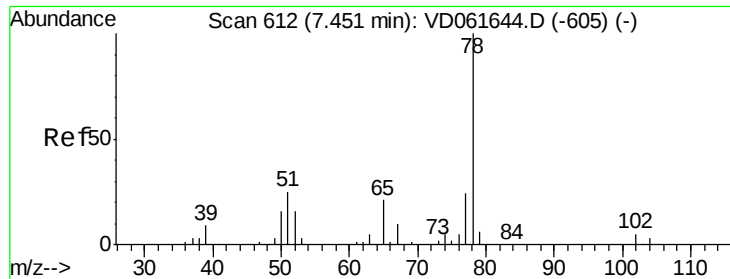
2000

0

6.95 7.00 7.05 7.10

Time-->

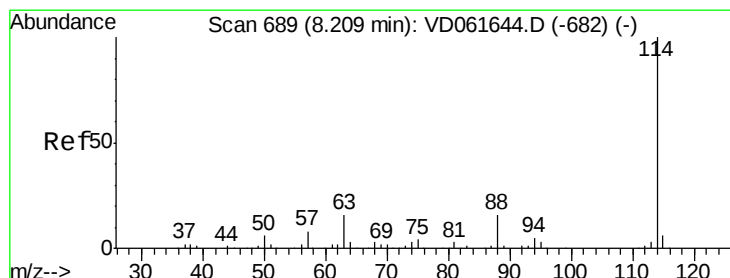
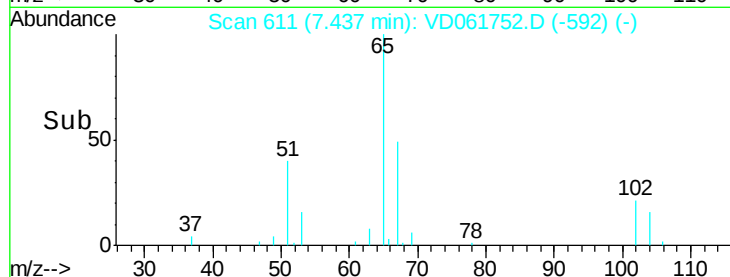
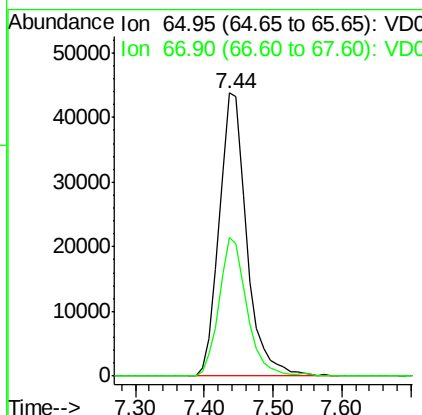
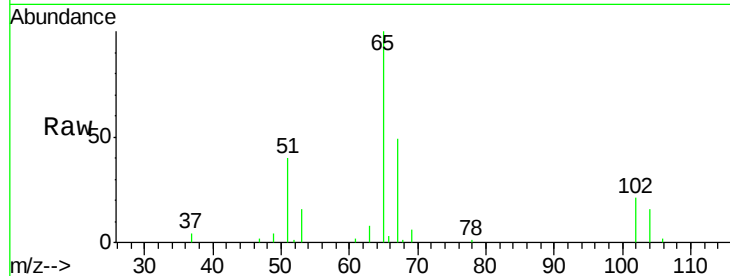




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 7.44 min Scan# 611  
 Delta R.T. -0.01 min  
 Lab File: VD061752.D  
 Acq: 11 Apr 2019 20:24

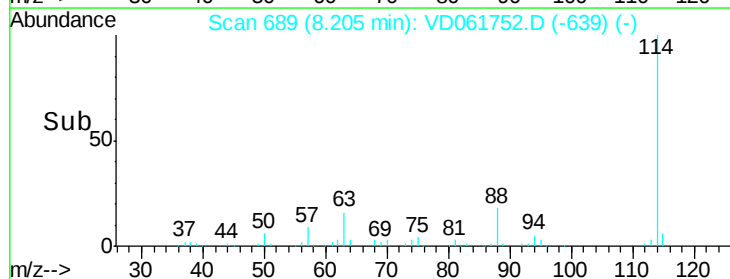
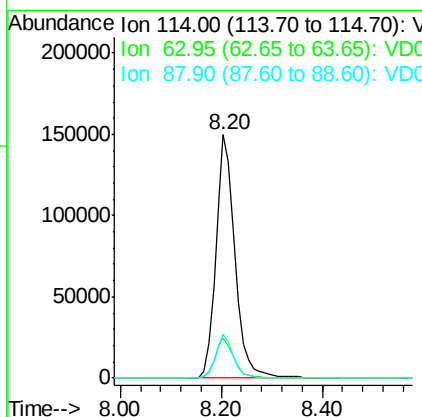
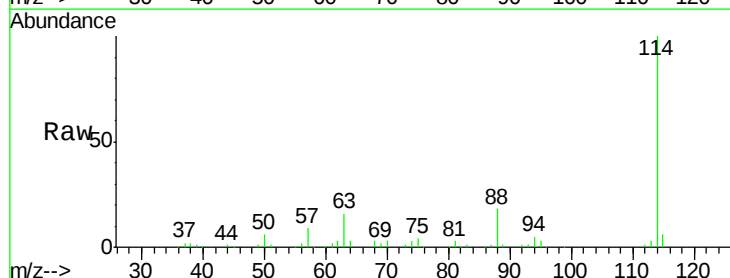
Instrument :  
 MSVOA\_D  
 ClientSampleId :

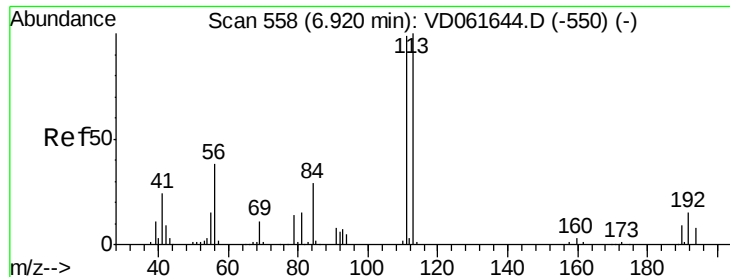
Tot Ion: 65 Resp: 121157  
 Ion Ratio Lower Upper  
 65 100  
 67 48.8 0.0 99.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.20 min Scan# 689  
 Delta R.T. -0.00 min  
 Lab File: VD061752.D  
 Acq: 11 Apr 2019 20:24

Tgt Ion: 114 Resp: 397193  
 Ion Ratio Lower Upper  
 114 100  
 63 16.3 0.0 31.2  
 88 18.0 0.0 31.8

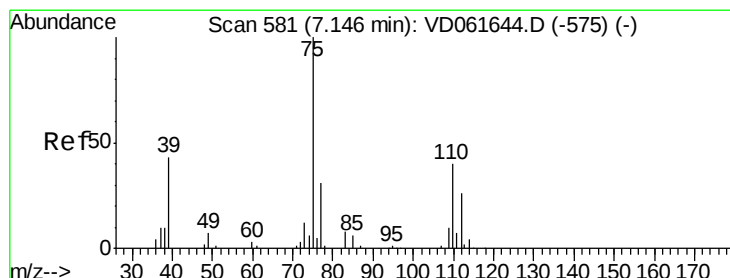
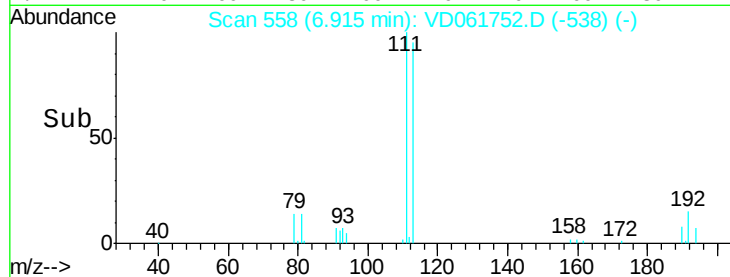
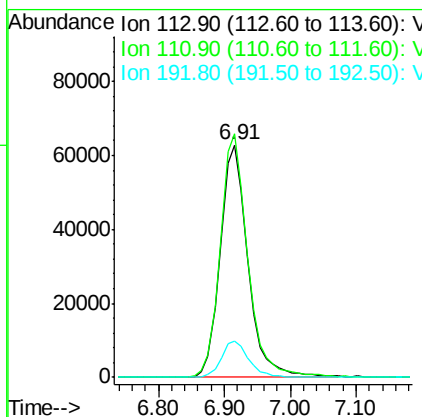
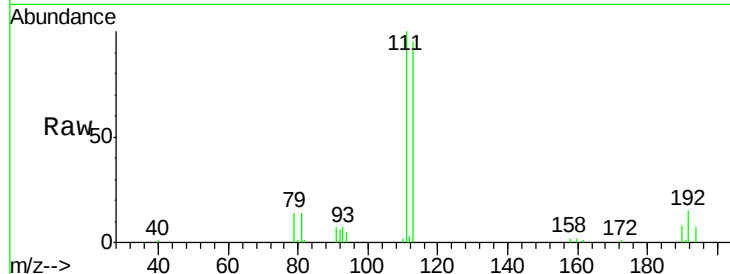




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.91 min Scan# 558  
 Delta R.T. -0.00 min  
 Lab File: VD061752.D  
 Acq: 11 Apr 2019 20:24

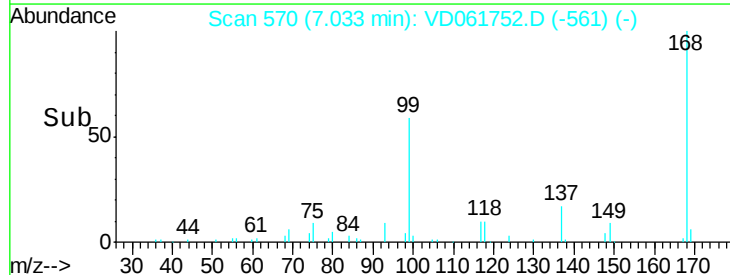
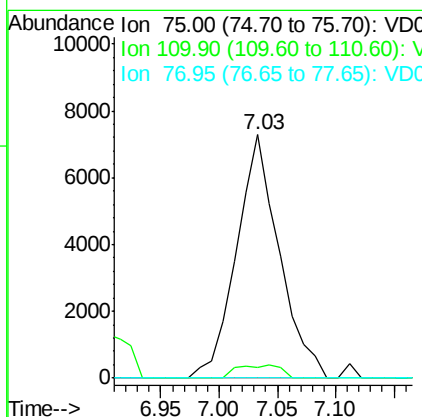
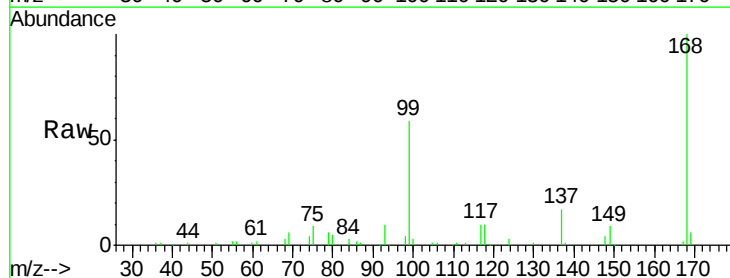
Instrument :  
 MSVOA\_D  
 ClientSampleId :

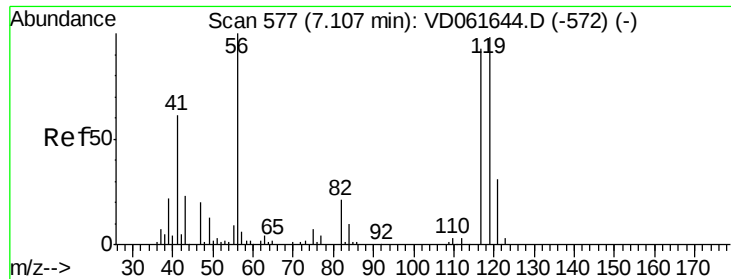
Tot Ion:113 Resp: 184587  
 Ion Ratio Lower Upper  
 113 100  
 111 104.9 79.3 118.9  
 192 15.8 12.3 18.5



#36  
 1,1-Dichloropropene  
 Concen: 5.322 ug/l  
 RT: 7.03 min Scan# 570  
 Delta R.T. -0.11 min  
 Lab File: VD061752.D  
 Acq: 11 Apr 2019 20:24

Tgt Ion: 75 Resp: 18499  
 Ion Ratio Lower Upper  
 75 100  
 110 4.2 19.7 59.0#  
 77 0.0 24.8 37.2#

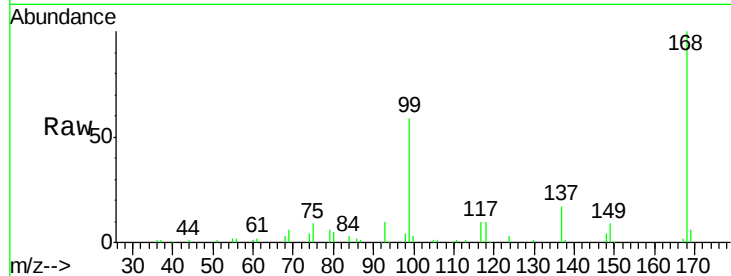




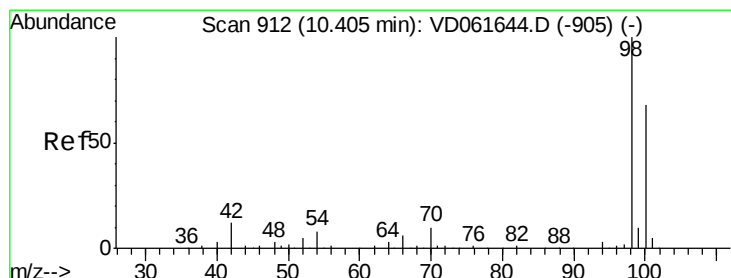
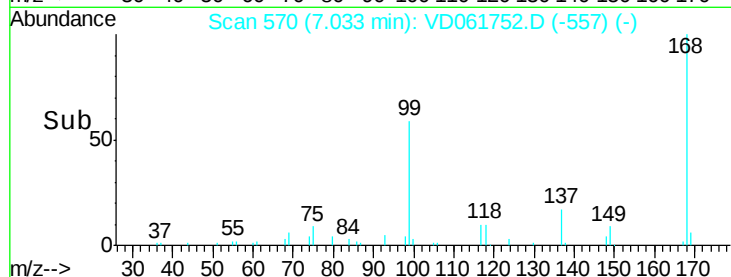
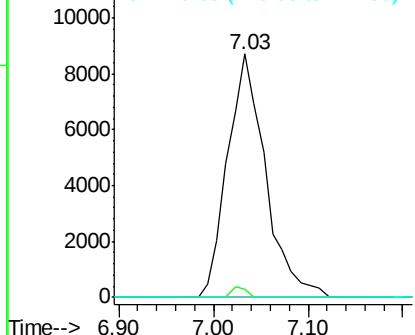
#38  
Carbon Tetrachloride  
Concen: 5.954 ug/l  
RT: 7.03 min Scan# 570  
Delta R.T. -0.07 min  
Lab File: VD061752.D  
Acq: 11 Apr 2019 20:24

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 24257  
Ion Ratio Lower Upper  
117 100  
119 3.6 77.9 116.9#  
121 0.0 24.7 37.1#

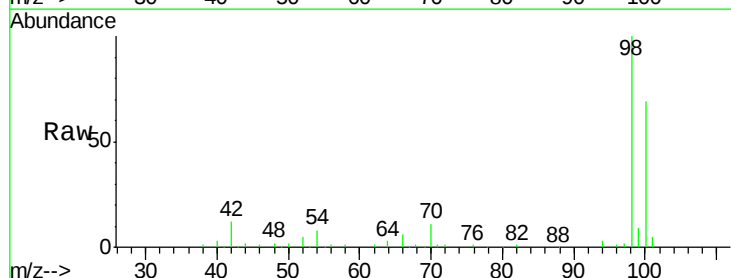


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

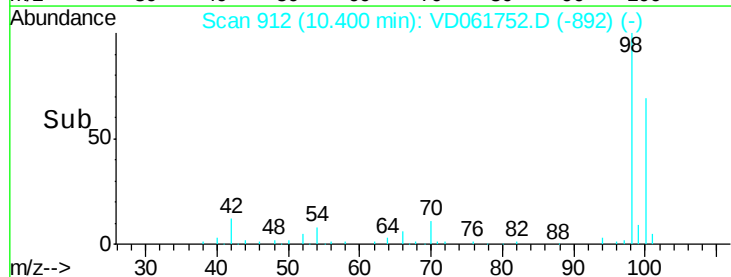
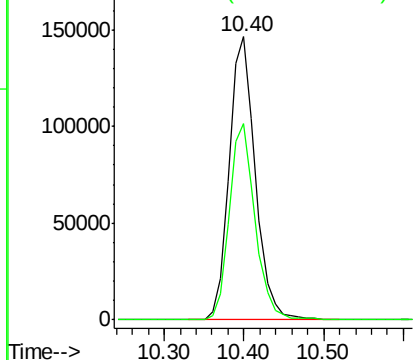


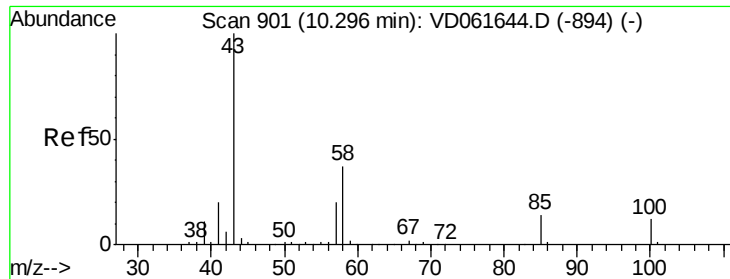
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. -0.00 min  
Lab File: VD061752.D  
Acq: 11 Apr 2019 20:24

Tgt Ion: 98 Resp: 335956  
Ion Ratio Lower Upper  
98 100  
100 69.4 55.4 83.0



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: 2.252 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD061752.D

Acq: 11 Apr 2019 20:24

Instrument :

MSVOA\_D

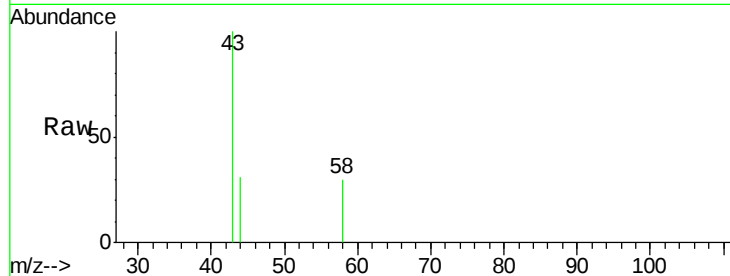
ClientSampled :

Tot Ion: 43 Resp: 2737

Ion Ratio Lower Upper

43 100

58 29.9 29.8 44.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

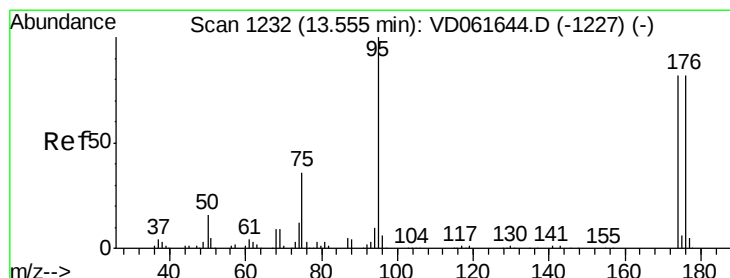
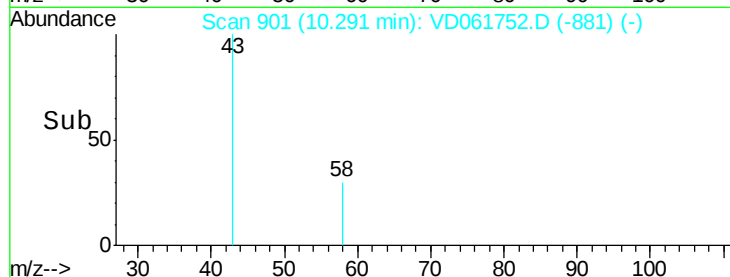
10.29

1000

500

0

Time--> 10.20 10.25 10.30 10.35



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061752.D

Acq: 11 Apr 2019 20:24

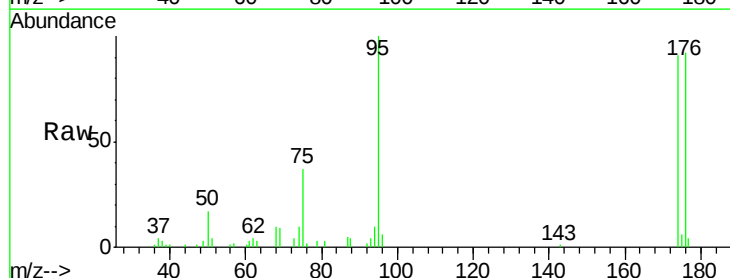
Tgt Ion: 95 Resp: 55923

Ion Ratio Lower Upper

95 100

174 90.9 0.0 164.6

176 91.7 0.0 165.0



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

50000

40000

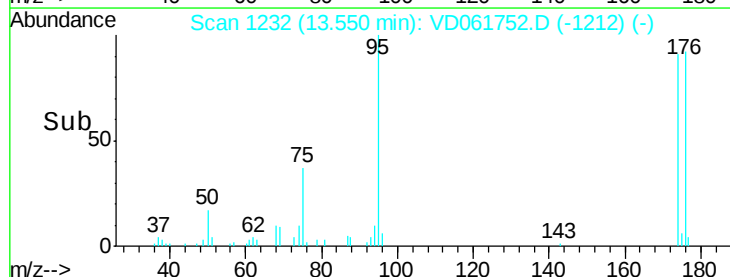
30000

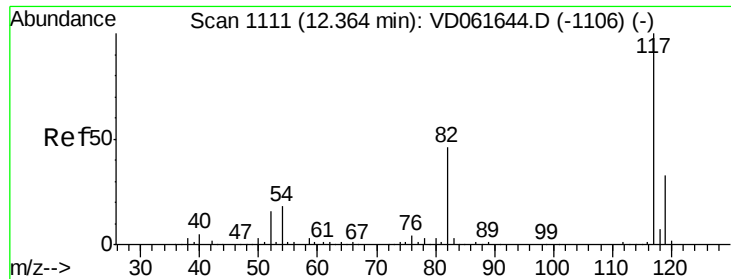
20000

10000

0

Time--> 13.50 13.55 13.60

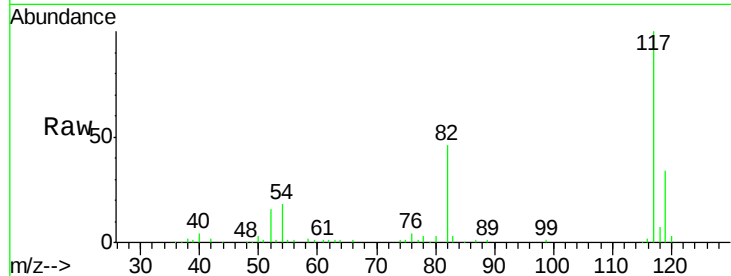




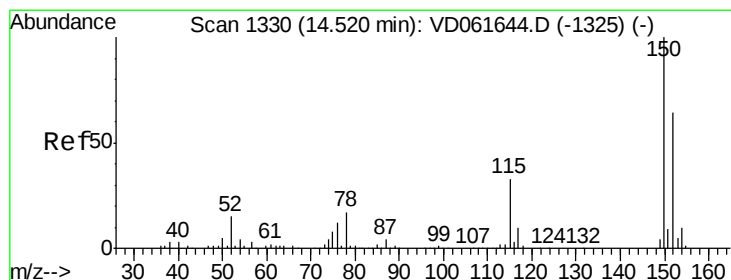
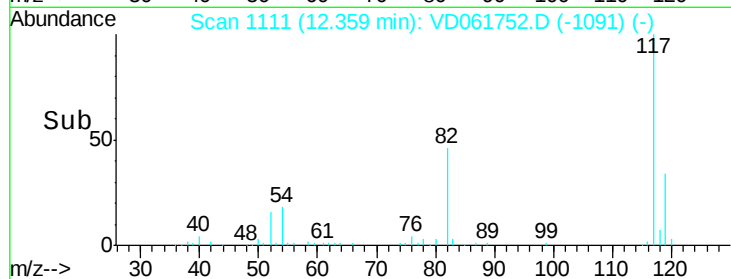
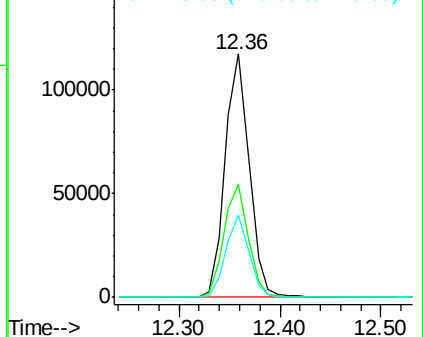
#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 12.36 min Scan# 1111  
 Delta R.T. -0.00 min  
 Lab File: VD061752.D  
 Acq: 11 Apr 2019 20:24

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:117 Resp: 195774  
 Ion Ratio Lower Upper  
 117 100  
 82 46.5 36.8 55.2  
 119 33.6 26.1 39.1

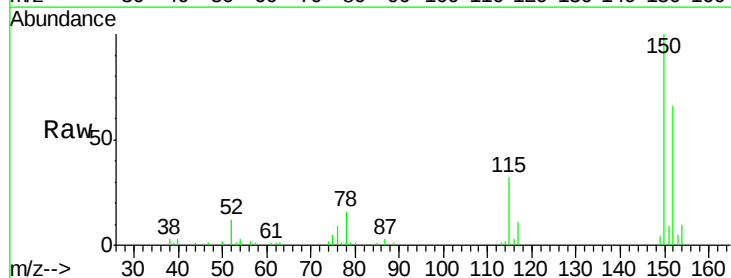


Abundance Ion 116.95 (116.65 to 117.65): V  
 Ion 82.05 (81.75 to 82.75): V  
 Ion 118.95 (118.65 to 119.65): V

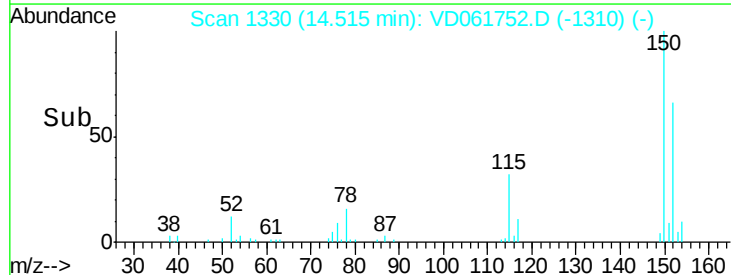
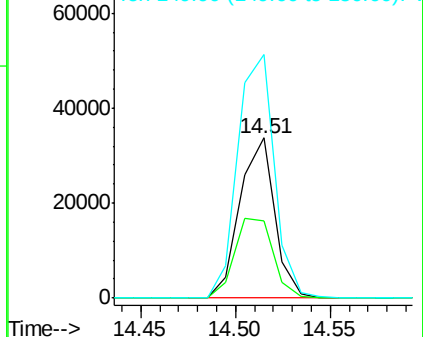


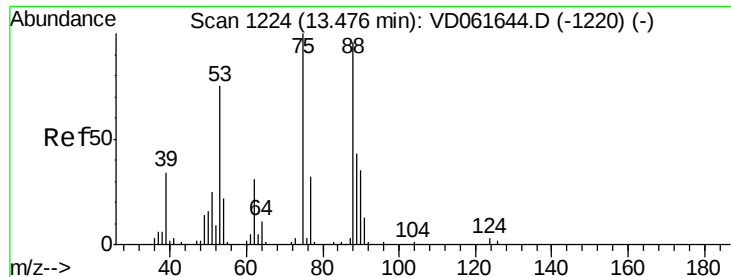
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 14.51 min Scan# 1330  
 Delta R.T. -0.00 min  
 Lab File: VD061752.D  
 Acq: 11 Apr 2019 20:24

Tgt Ion:152 Resp: 42918  
 Ion Ratio Lower Upper  
 152 100  
 115 48.1 26.4 79.2  
 150 151.9 0.0 320.6



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





#81

trans-1,4-Dichloro-2-butene

Concen: 117.678 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD061752.D

Acq: 11 Apr 2019 20:24

Instrument :

MSVOA\_D

ClientSampleId :

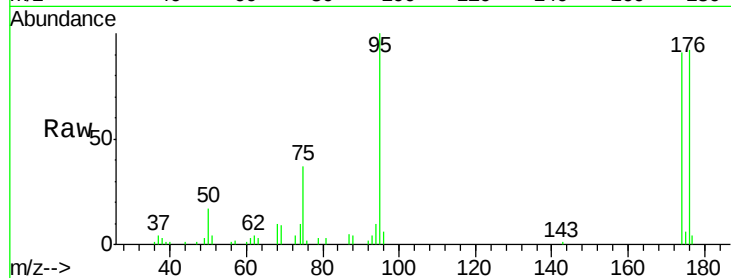
Tot Ion: 75 Resp: 20851

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

89 0.0 34.2 51.2#



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

