

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW010919\  
 Data File : VW008110.D  
 Acq On : 09 Jan 2019 18:24  
 Operator : SY/AP  
 Sample : K1074-10  
 Misc : 4.87G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 W12-5

Quant Time: Jan 10 05:59:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 65143    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 111813   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 96643    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 45608    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 37792    | 51.62 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.24% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 33932    | 52.03 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.06% |      |
| 50) Toluene-d8              | 10.32  | 98  | 139383   | 50.93 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.86% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 45983    | 46.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.74%  |      |

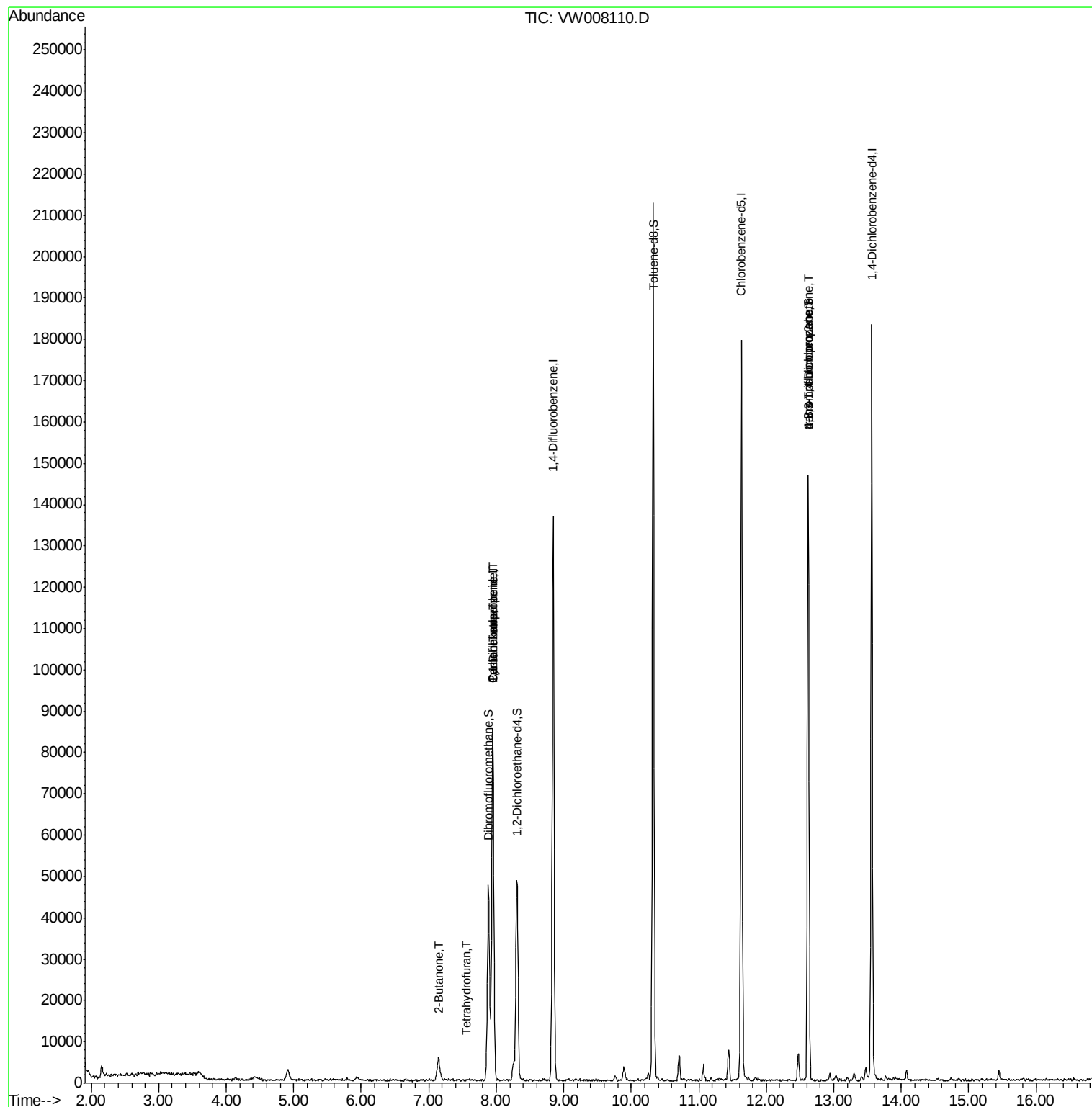
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.26  | 59   | 21       | Below Cal | #      | 100    |
| 13) Acrolein                   | 4.03  | 56   | 25       | Below Cal | #      | 14     |
| 16) Acetone                    | 4.13  | 43   | 461      | Below Cal | #      | 76     |
| 20) Methylene Chloride         | 4.90  | 84   | 1681     | Below Cal | #      | 72     |
| 25) 2-Butanone                 | 7.15  | 43   | 658      | 3.230     | ug/l # | 49     |
| 29) Tetrahydrofuran            | 7.56  | 42   | 191      | 1.404     | ug/l # | 35     |
| 31) Cyclohexane                | 7.95  | 56   | 1738     | 1.128     | ug/l # | 5      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 5288     | 4.591     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 6607     | 6.267     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 23461    | 56.428    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 23461    | 131.404   | ug/l # | 10     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW010919\  
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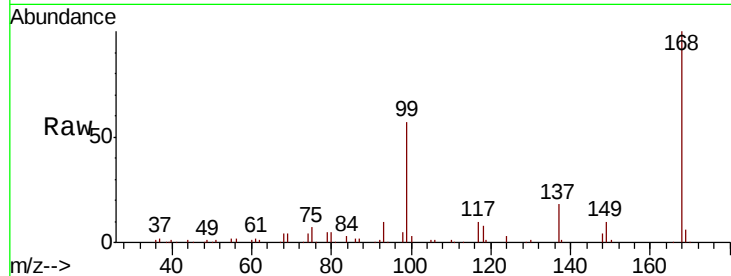


#1

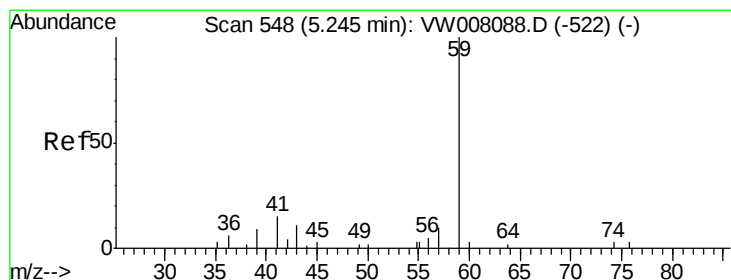
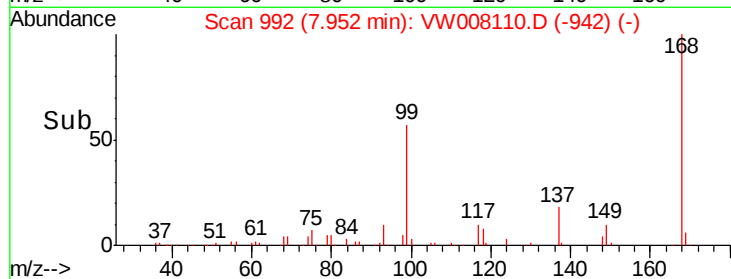
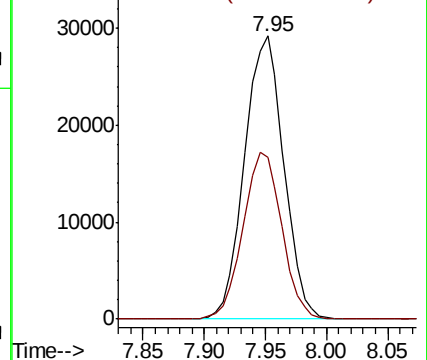
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. 0.01 min  
 Lab File: VW008110.D  
 Acq: 09 Jan 2019 18:24

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 W12-5

Tgt Ion:168 Resp: 65143  
 Ion Ratio Lower Upper  
 168 100  
 99 57.0 52.6 78.8



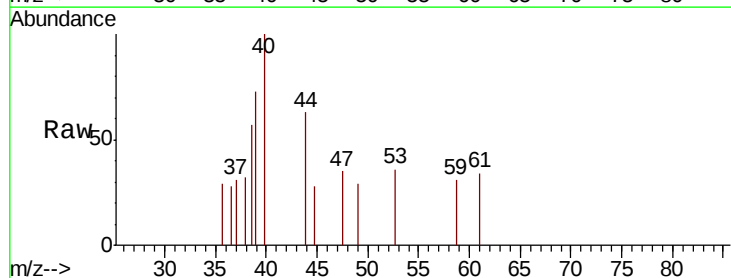
Abundance Ion 167.90 (167.60 to 168.60): V  
 Ion 98.90 (98.60 to 99.60): VW



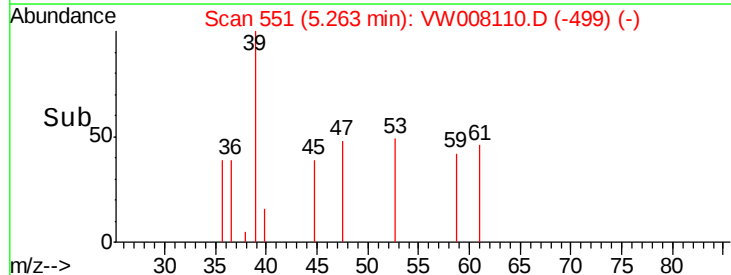
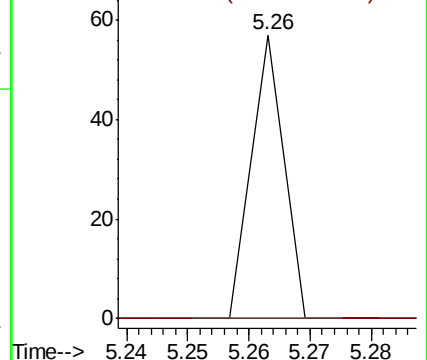
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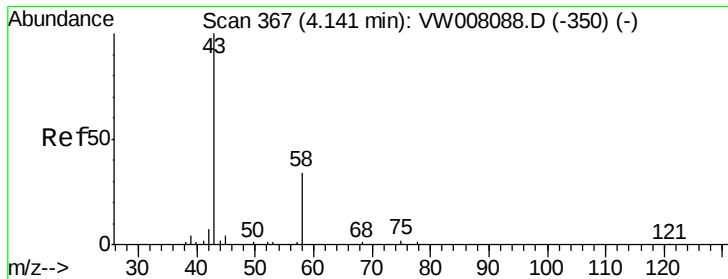
Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.26 min Scan# 551  
 Delta R.T. 0.02 min  
 Lab File: VW008110.D  
 Acq: 09 Jan 2019 18:24

Tgt Ion: 59 Resp: 21  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VW  
 Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: Below Cal

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW008110.D

Acq: 09 Jan 2019 18:24

Instrument :

MSVOA\_W

ClientSampled :

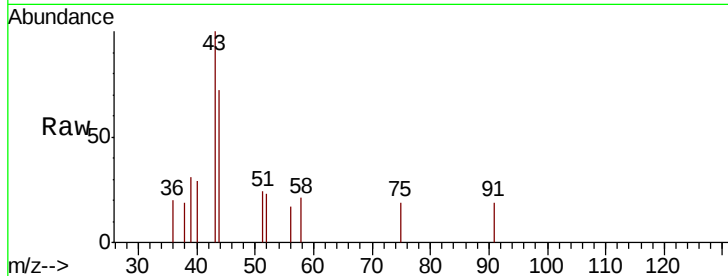
W12-5

Tgt Ion: 43 Resp: 461

Ion Ratio Lower Upper

43 100

58 20.7 27.5 41.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

300

200

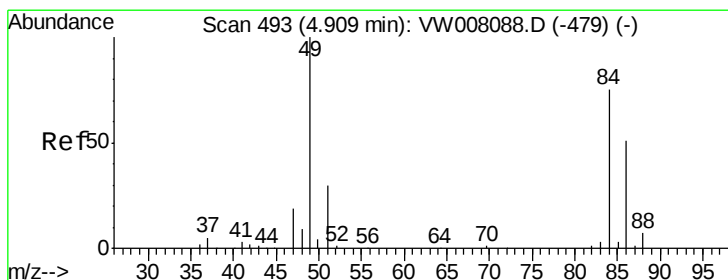
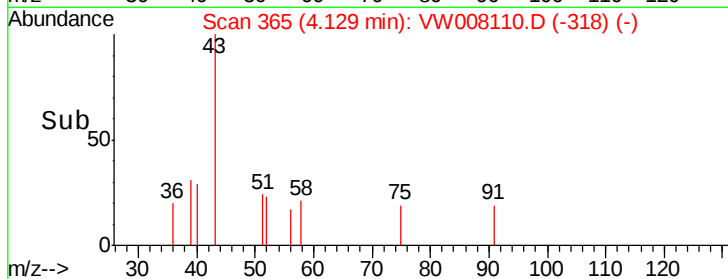
100

0

4.10

4.15

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 491

Delta R.T. -0.01 min

Lab File: VW008110.D

Acq: 09 Jan 2019 18:24

Tgt Ion: 84 Resp: 1681

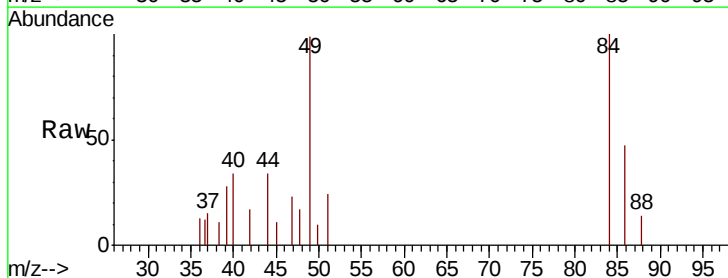
Ion Ratio Lower Upper

84 100

49 98.8 107.1 160.7#

51 24.1 32.4 48.6#

86 47.4 54.2 81.4#



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

1000

800

600

400

200

0

4.80

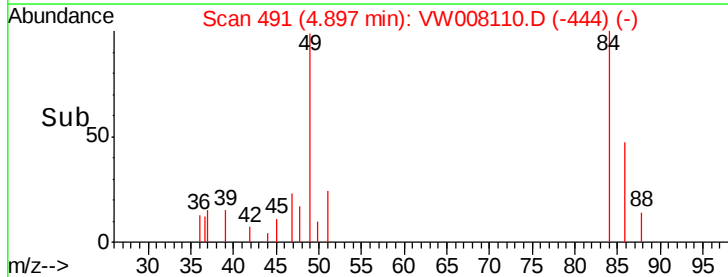
4.85

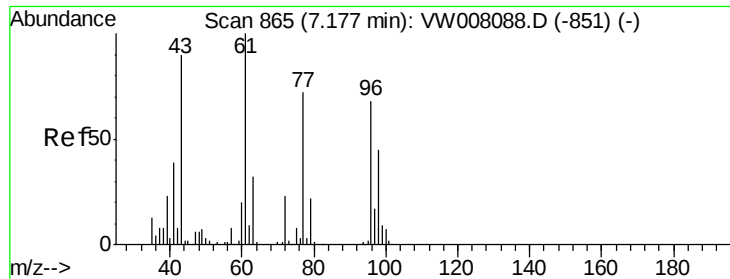
4.90

4.95

5.00

Time-->





#25

2-Butanone

Concen: 3.230 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW008110.D

Acq: 09 Jan 2019 18:24

Instrument :

MSVOA\_W

ClientSampled :

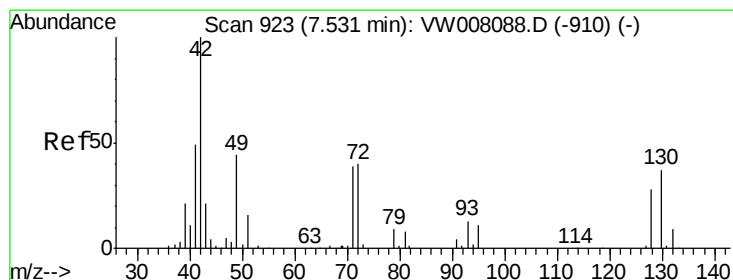
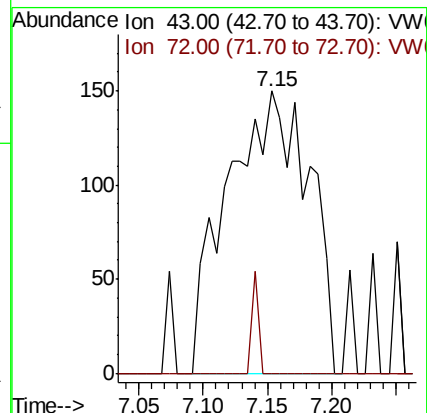
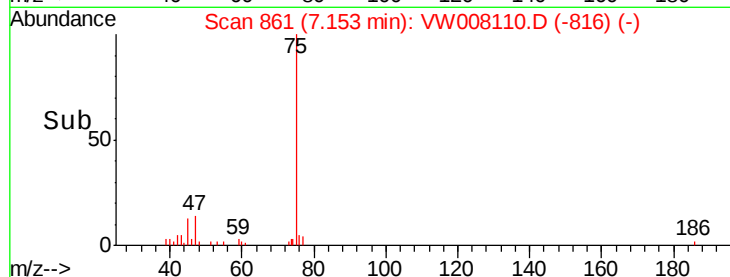
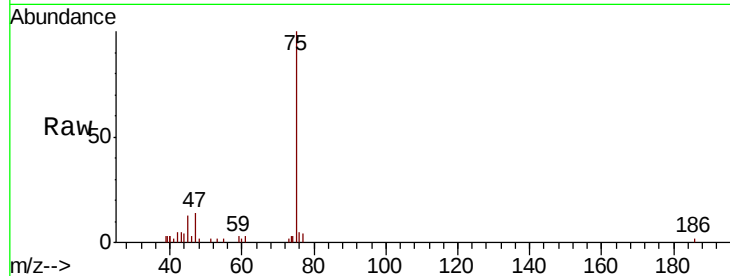
W12-5

Tgt Ion: 43 Resp: 658

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#29

Tetrahydrofuran

Concen: 1.404 ug/l

RT: 7.56 min Scan# 927

Delta R.T. 0.02 min

Lab File: VW008110.D

Acq: 09 Jan 2019 18:24

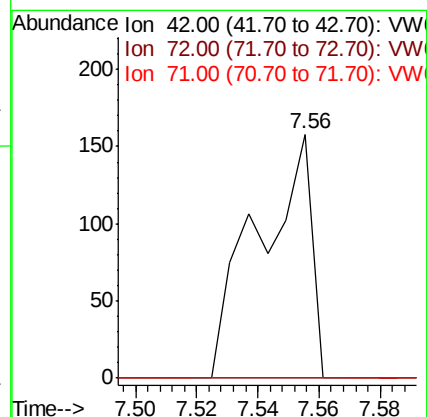
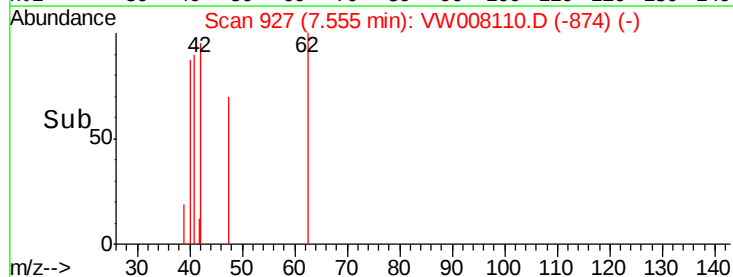
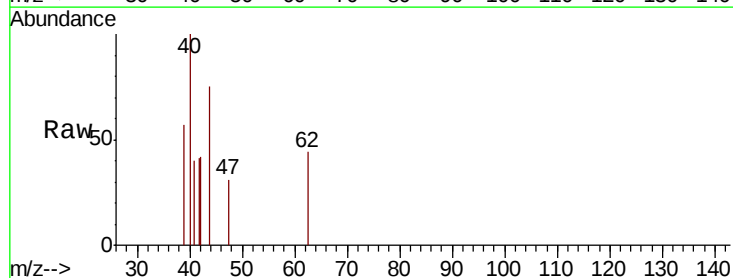
Tgt Ion: 42 Resp: 191

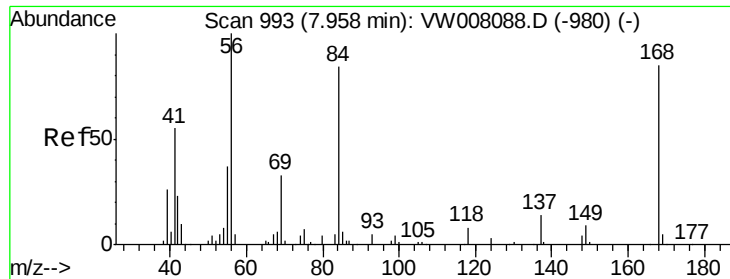
Ion Ratio Lower Upper

42 100

72 0.0 32.4 48.6#

71 0.0 31.3 46.9#

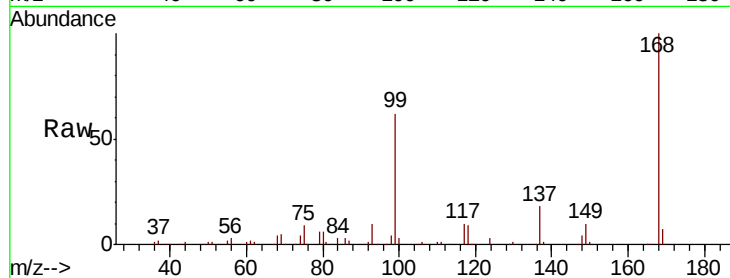




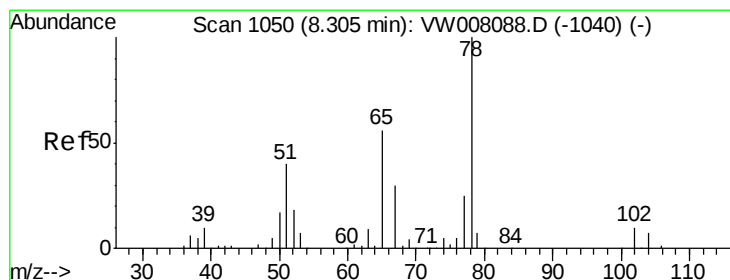
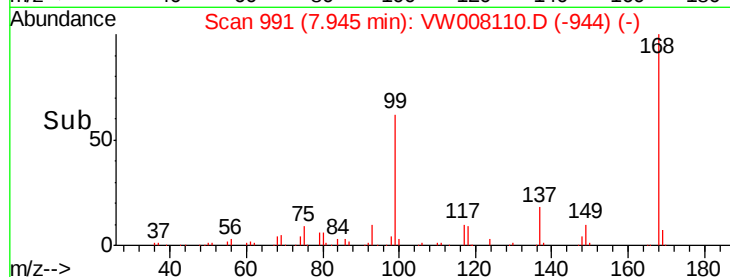
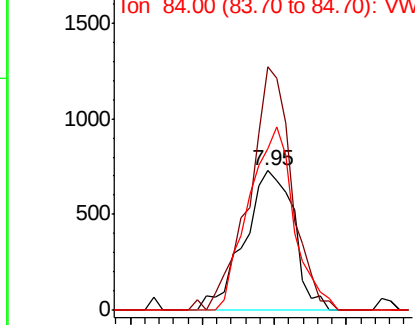
#31  
Cyclohexane  
Concen: 1.128 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW008110.D  
Acq: 09 Jan 2019 18:24

Instrument :  
MSVOA\_W  
ClientSampleId :  
W12-5

Tgt Ion: 56 Resp: 1738  
Ion Ratio Lower Upper  
56 100  
69 174.5 26.2 39.4#  
84 115.7 67.4 101.2#

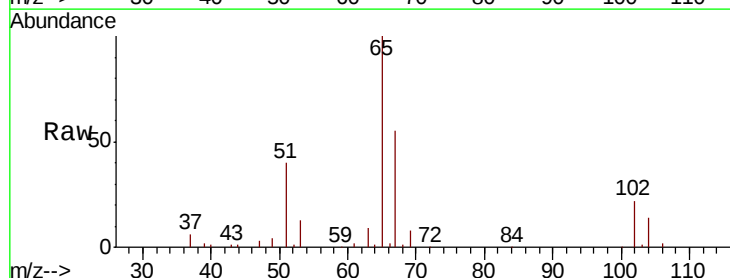


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

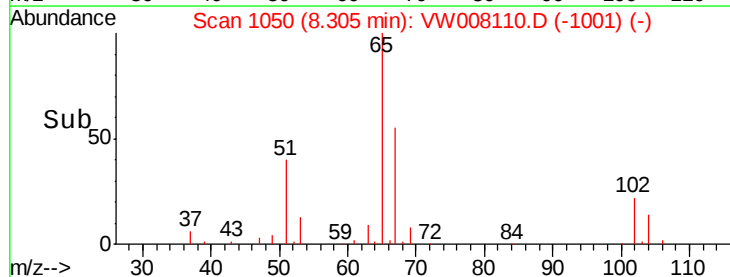
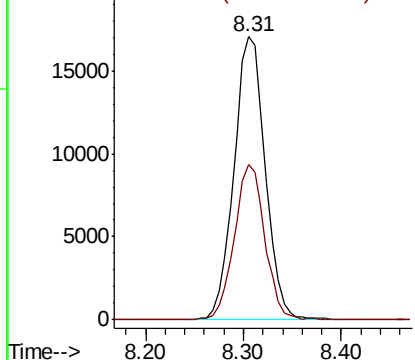


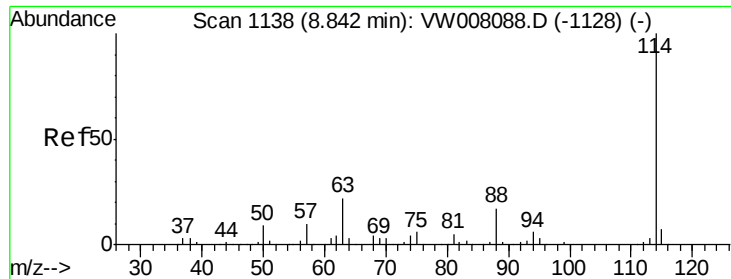
#33  
1,2-Dichloroethane-d4  
Concen: 51.618 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW008110.D  
Acq: 09 Jan 2019 18:24

Tgt Ion: 65 Resp: 37792  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 106.8



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

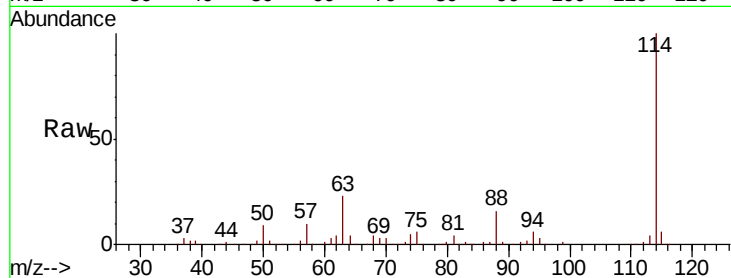




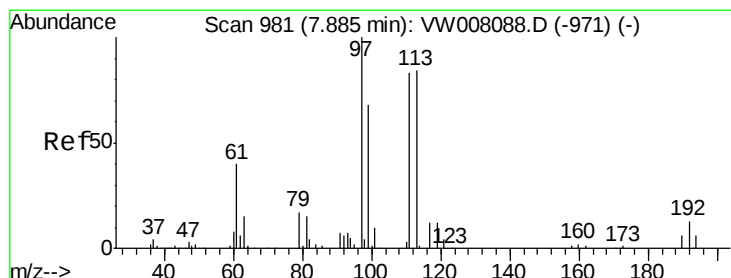
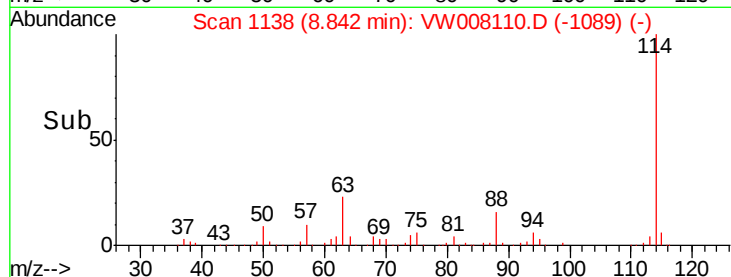
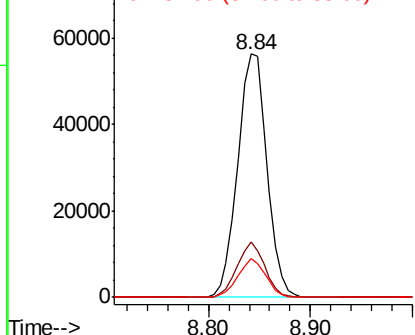
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. 0.00 min  
Lab File: VW008110.D  
Acq: 09 Jan 2019 18:24

Instrument :  
MSVOA\_W  
ClientSampleId :  
W12-5

Tgt Ion:114 Resp: 111813  
Ion Ratio Lower Upper  
114 100  
63 22.7 0.0 43.4  
88 16.1 0.0 33.4

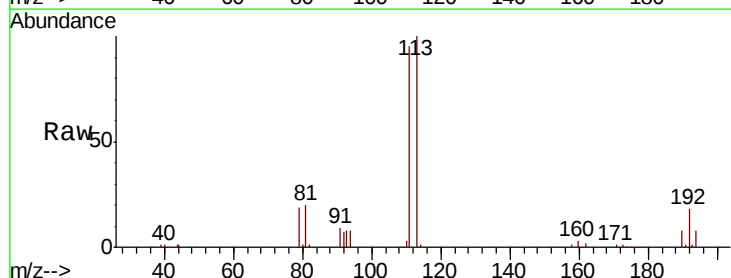


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

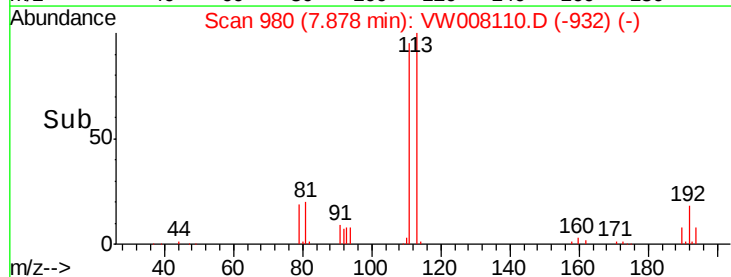
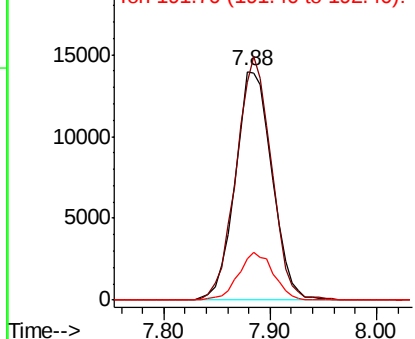


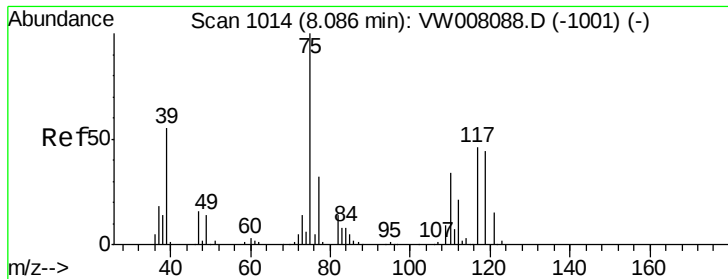
#35  
Dibromofluoromethane  
Concen: 52.032 ug/l  
RT: 7.88 min Scan# 980  
Delta R.T. -0.01 min  
Lab File: VW008110.D  
Acq: 09 Jan 2019 18:24

Tgt Ion:113 Resp: 33932  
Ion Ratio Lower Upper  
113 100  
111 101.7 81.8 122.8  
192 19.7 12.8 19.2#



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

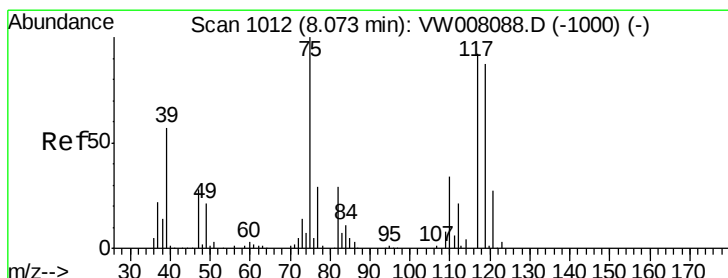
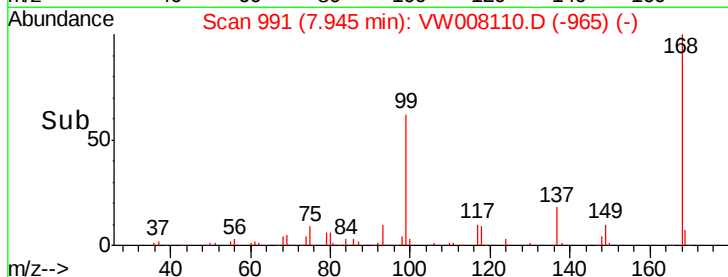
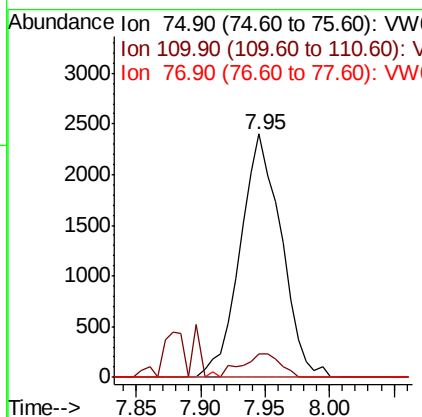
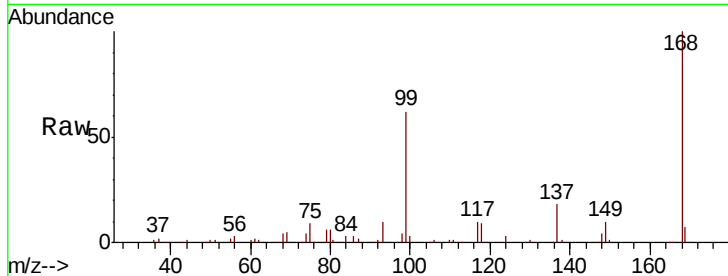




#36  
 1,1-Dichloropropene  
 Concen: 4.591 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW008110.D  
 Acq: 09 Jan 2019 18:24

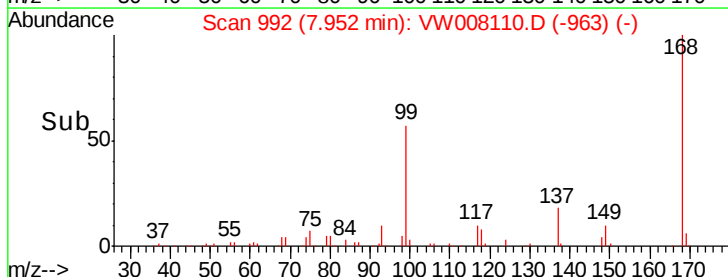
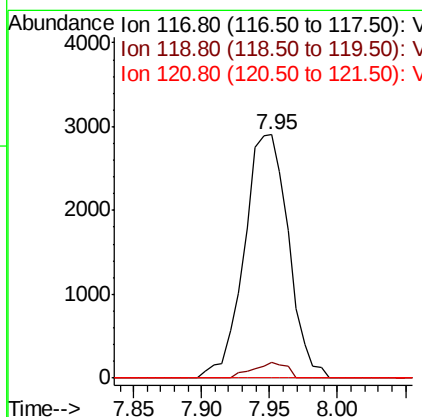
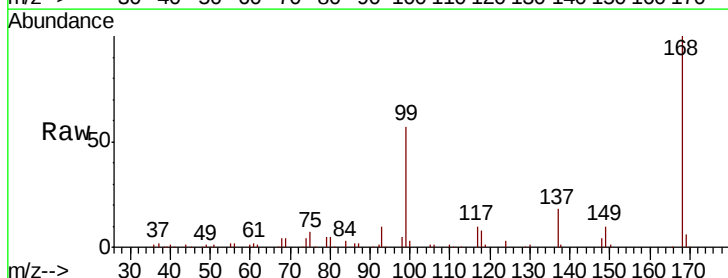
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 W12-5

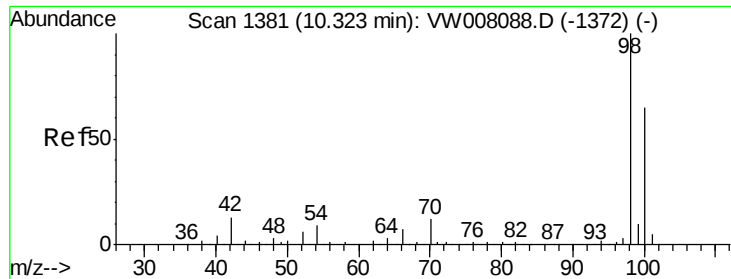
Tgt Ion: 75 Resp: 5288  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 17.1 51.3#  
 77 0.0 25.5 38.3#



#38  
 Carbon Tetrachloride  
 Concen: 6.267 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW008110.D  
 Acq: 09 Jan 2019 18:24

Tgt Ion: 117 Resp: 6607  
 Ion Ratio Lower Upper  
 117 100  
 119 6.3 75.8 113.8#  
 121 0.0 23.7 35.5#

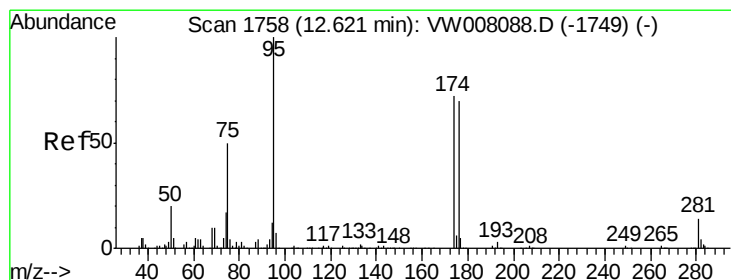
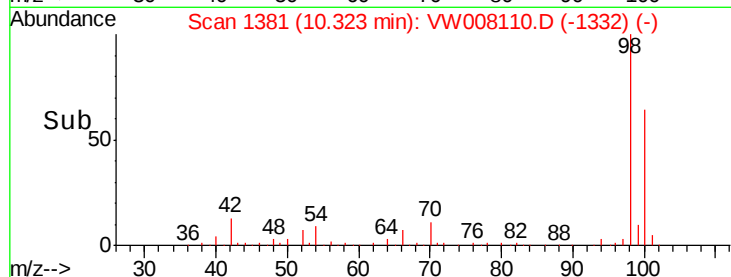
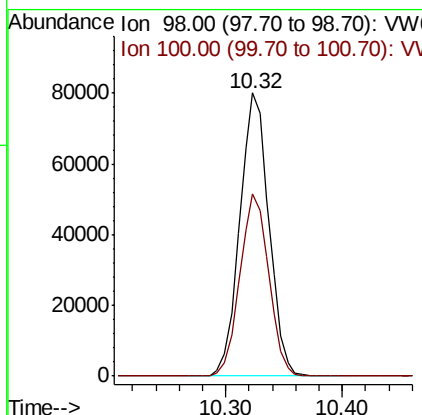
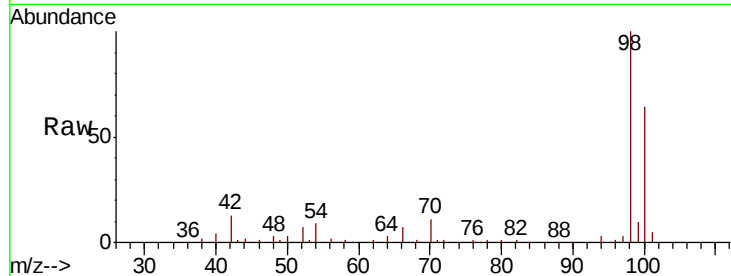




#50  
Toluene-d8  
Concen: 50.933 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW008110.D  
Acq: 09 Jan 2019 18:24

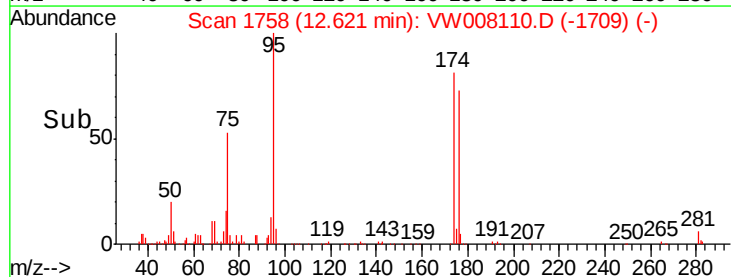
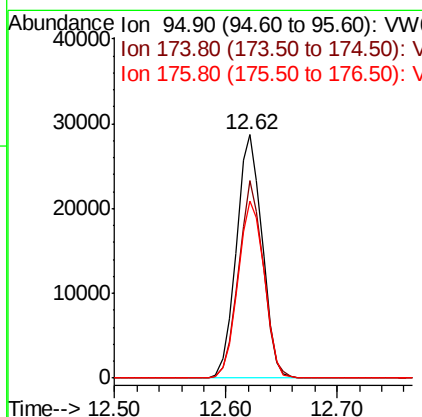
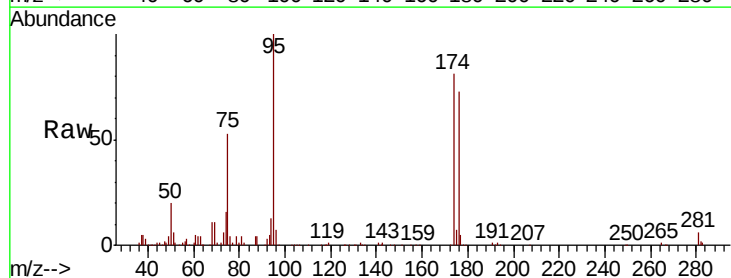
Instrument :  
MSVOA\_W  
ClientSampleId :  
W12-5

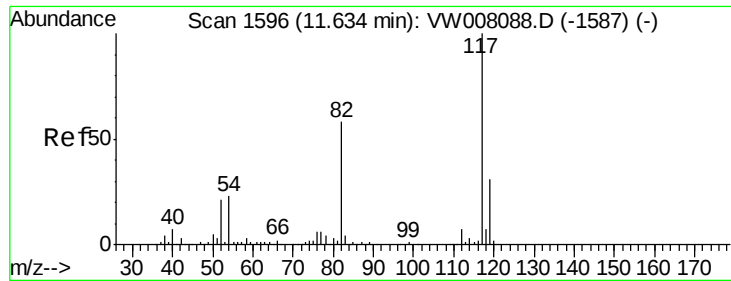
Tgt Ion: 98 Resp: 139383  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.7 77.5



#62  
4-Bromofluorobenzene  
Concen: 46.870 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW008110.D  
Acq: 09 Jan 2019 18:24

Tgt Ion: 95 Resp: 45983  
Ion Ratio Lower Upper  
95 100  
174 78.1 0.0 143.0  
176 74.5 0.0 140.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008110.D

Acq: 09 Jan 2019 18:24

Instrument :

MSVOA\_W

ClientSampleId :

W12-5

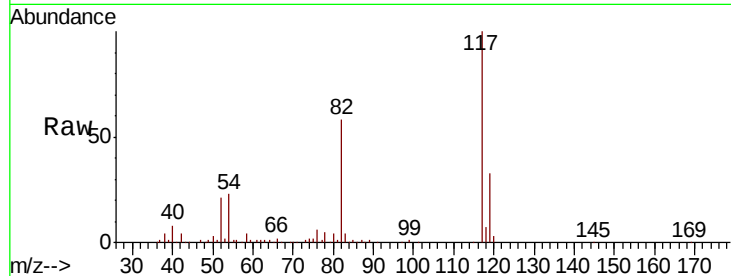
Tgt Ion:117 Resp: 96643

Ion Ratio Lower Upper

117 100

82 57.9 46.4 69.6

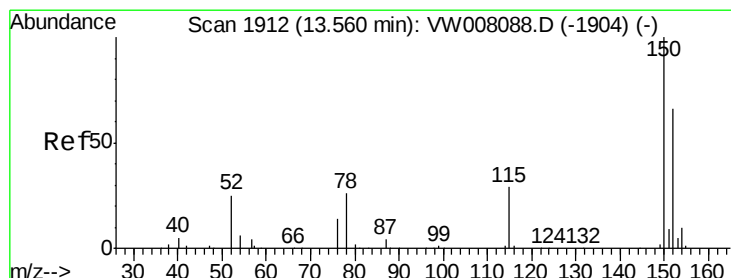
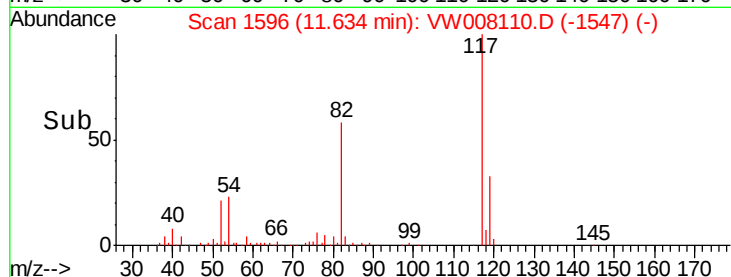
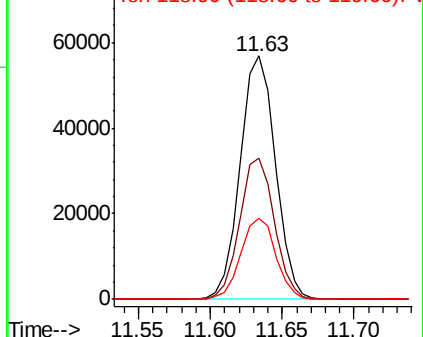
119 33.0 24.7 37.1



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: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008110.D

Acq: 09 Jan 2019 18:24

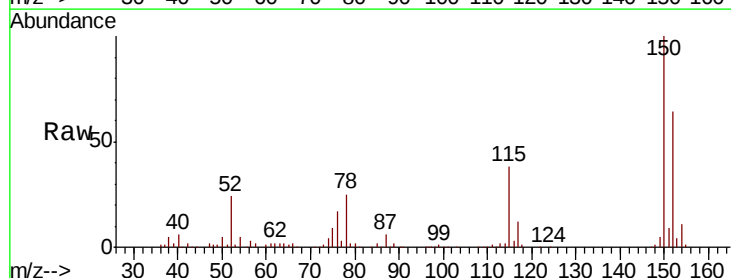
Tgt Ion:152 Resp: 45608

Ion Ratio Lower Upper

152 100

115 59.5 30.8 92.4

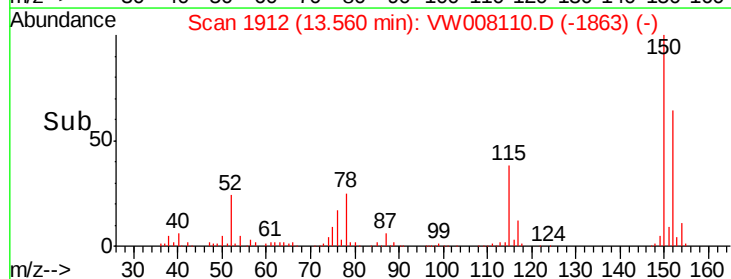
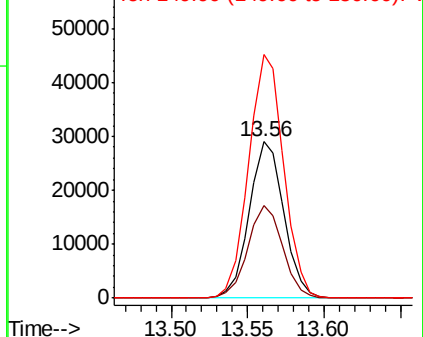
150 157.6 0.0 350.2

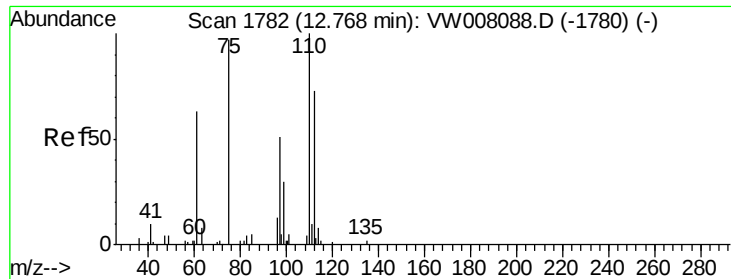


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 56.428 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008110.D

Acq: 09 Jan 2019 18:24

Instrument :

MSVOA\_W

ClientSampled :

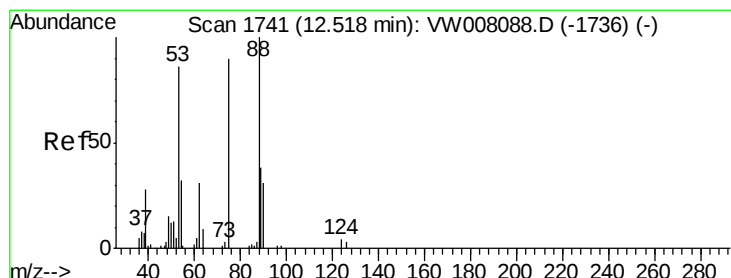
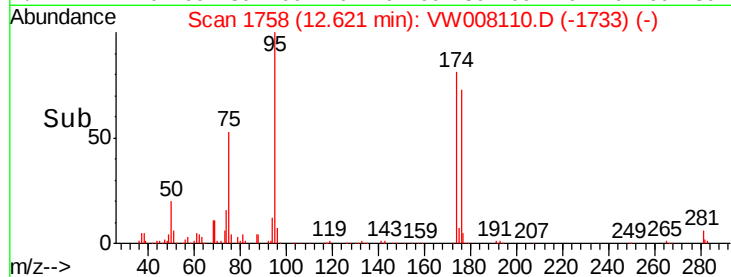
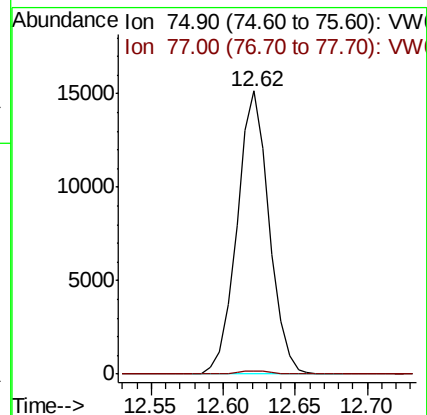
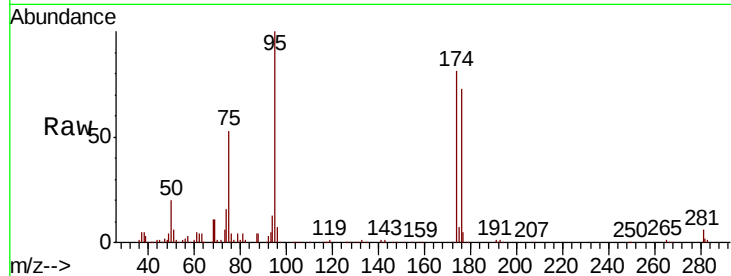
W12-5

Tgt Ion: 75 Resp: 23461

Ion Ratio Lower Upper

75 100

77 1.1 179.4 538.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 131.404 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008110.D

Acq: 09 Jan 2019 18:24

Tgt Ion: 75 Resp: 23461

Ion Ratio Lower Upper

75 100

53 0.1 78.8 118.2#

89 0.0 35.4 53.2#

