

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW010919\  
 Data File : VW008127.D  
 Acq On : 10 Jan 2019 03:38  
 Operator : SY/AP  
 Sample : K1082-05RE  
 Misc : 5.46G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SP-1-3RE

Quant Time: Jan 10 06:03:30 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

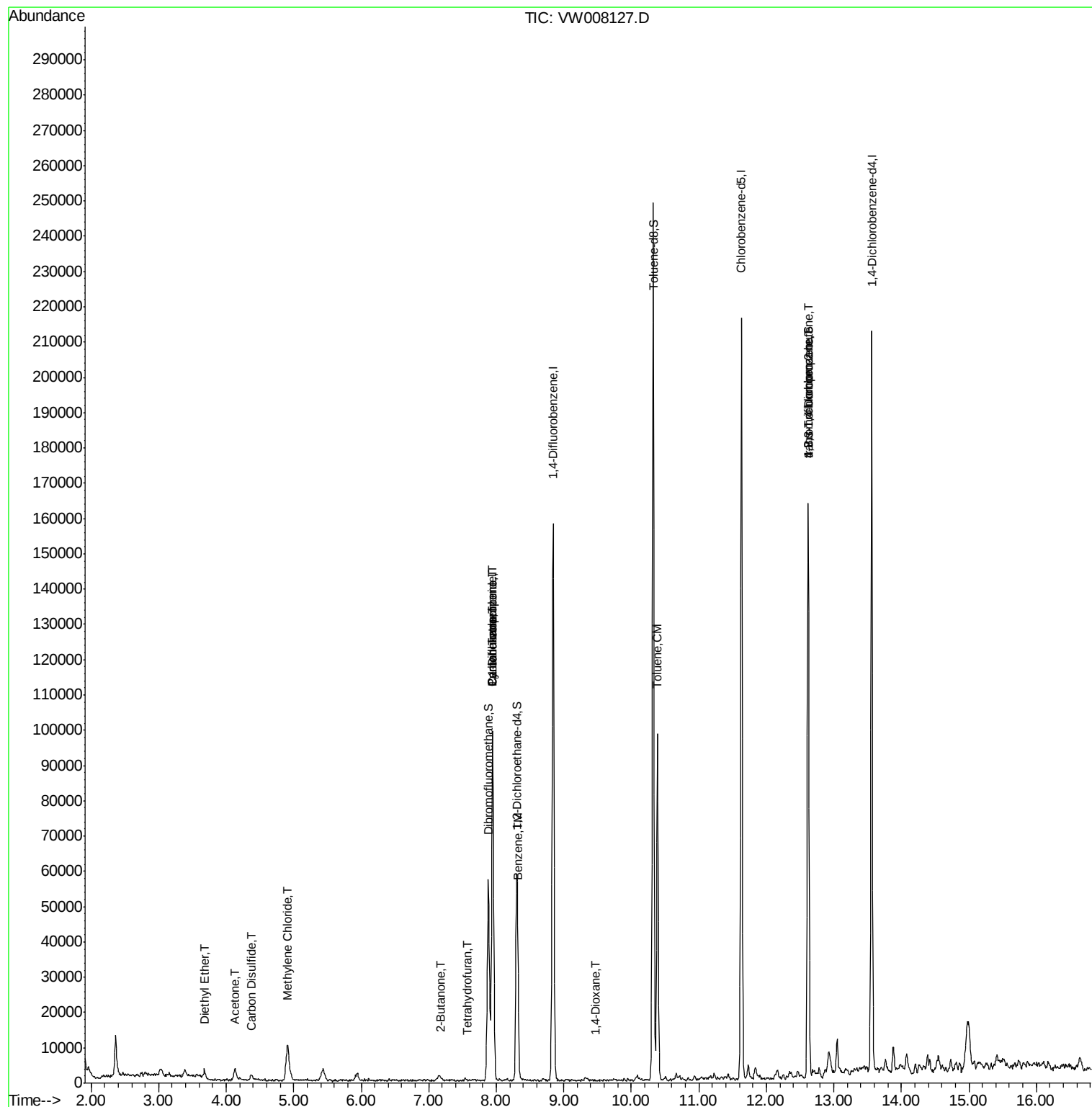
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 68890    | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84  | 114  | 128463   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 115458   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56 | 152  | 49964    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.30  | 65   | 42605    | 55.03     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.06% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 39717    | 53.01     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 106.02% |          |
| 50) Toluene-d8                 | 10.32 | 98   | 162966   | 51.83     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 103.66% |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 54073    | 47.97     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 95.94%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 8) Diethyl Ether               | 3.67  | 74   | 1392     | 3.181     | ug/l    | 95       |
| 11) Tert butyl alcohol         | 5.22  | 59   | 45       | Below Cal | #       | 100      |
| 13) Acrolein                   | 3.87  | 56   | 62       | Below Cal | #       | 14       |
| 16) Acetone                    | 4.14  | 43   | 5903     | 23.230    | ug/l    | 90       |
| 17) Carbon Disulfide           | 4.37  | 76   | 2862     | 1.214     | ug/l    | 99       |
| 20) Methylene Chloride         | 4.91  | 84   | 7341     | 5.335     | ug/l    | 97       |
| 25) 2-Butanone                 | 7.18  | 43   | 809      | 3.755     | ug/l    | 100      |
| 29) Tetrahydrofuran            | 7.56  | 42   | 304      | 2.113     | ug/l #  | 35       |
| 31) Cyclohexane                | 7.94  | 56   | 2070     | 1.270     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 6041     | 4.565     | ug/l #  | 51       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 7282     | 6.012     | ug/l #  | 18       |
| 40) Benzene                    | 8.32  | 78   | 5770     | 1.608     | ug/l    | 94       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 18       | 2.561     | ug/l #  | 11       |
| 52) Toluene                    | 10.39 | 92   | 39825    | 17.374    | ug/l    | 95       |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 27188    | 59.691    | ug/l #  | 1        |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 27188    | 139.003   | ug/l #  | 11       |

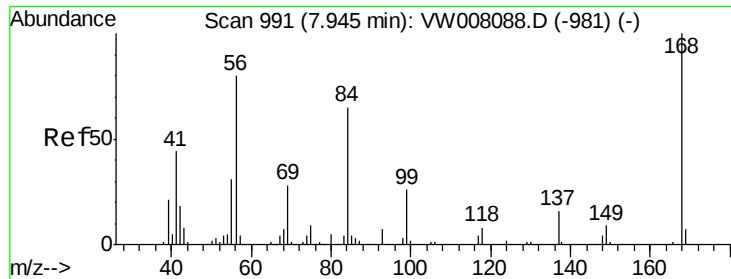
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW010919\  
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Quant Title : SW846 8260  
QLast Update : Wed Jan 09 04:40:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008127.D

Acq: 10 Jan 2019 03:38

Instrument :

MSVOA\_W

ClientSampleId :

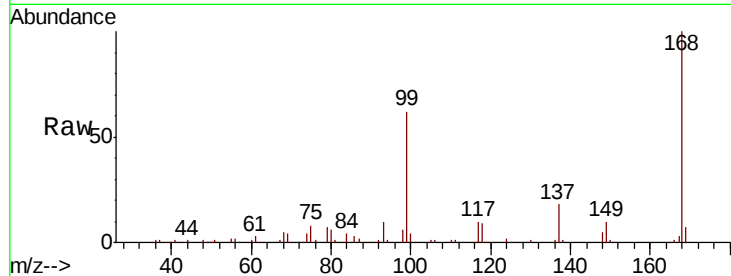
SP-1-3RE

Tgt Ion:168 Resp: 68890

Ion Ratio Lower Upper

168 100

99 61.9 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

30000

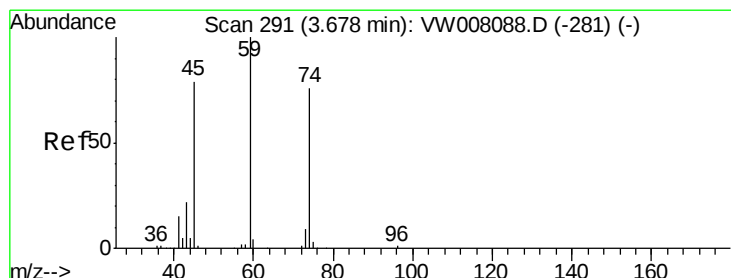
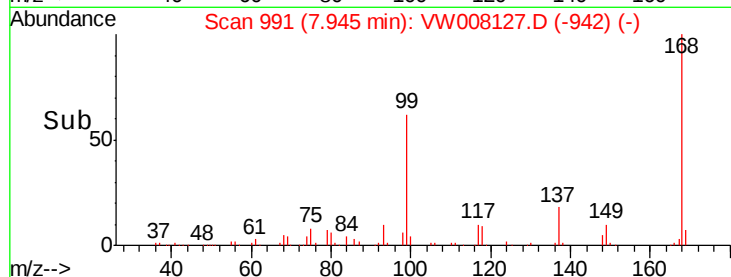
20000

10000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#8

Diethyl Ether

Concen: 3.181 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW008127.D

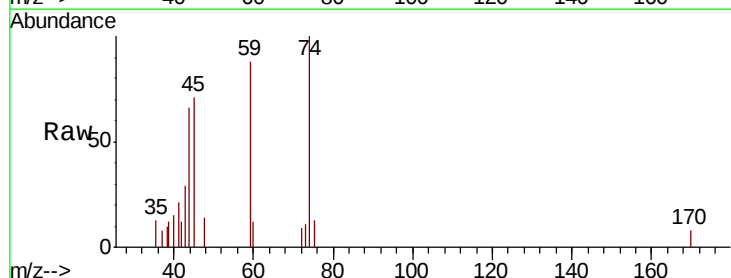
Acq: 10 Jan 2019 03:38

Tgt Ion: 74 Resp: 1392

Ion Ratio Lower Upper

74 100

45 110.0 52.4 157.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

800

600

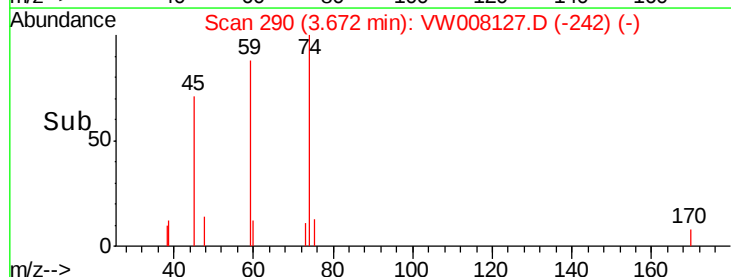
400

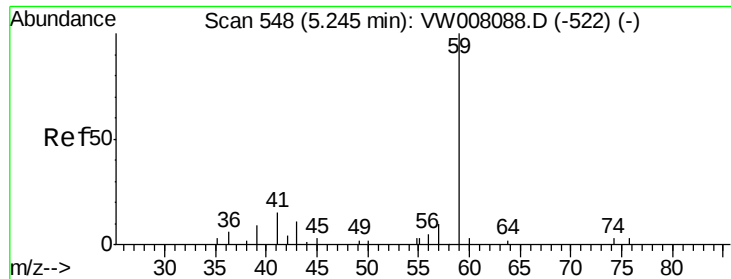
200

0

Time-->

3.60 3.65 3.70 3.75

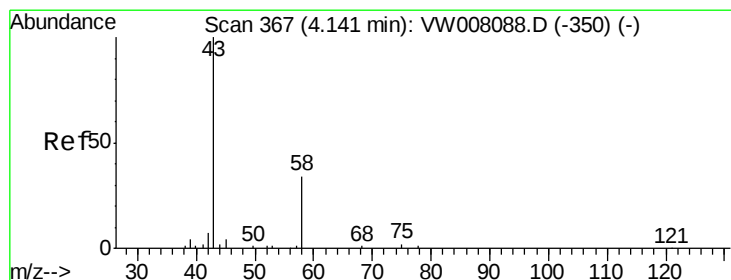
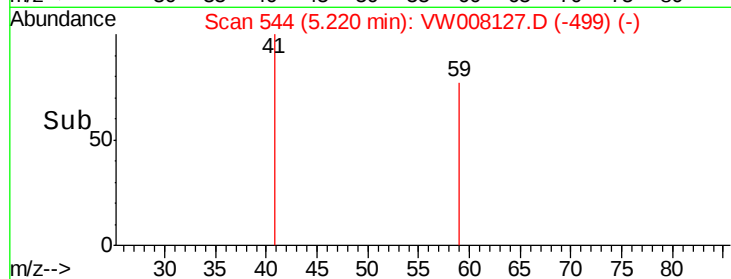
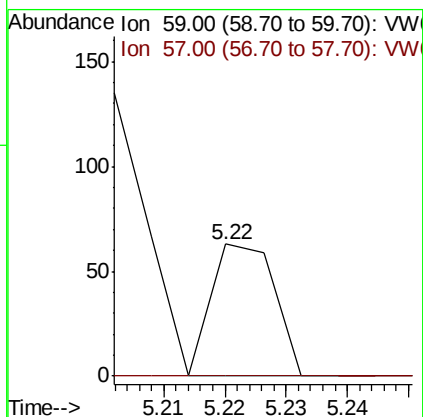
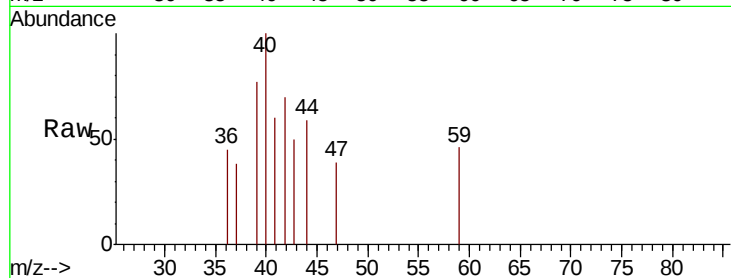




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.22 min Scan# 544  
Delta R.T. -0.02 min  
Lab File: VW008127.D  
Acq: 10 Jan 2019 03:38

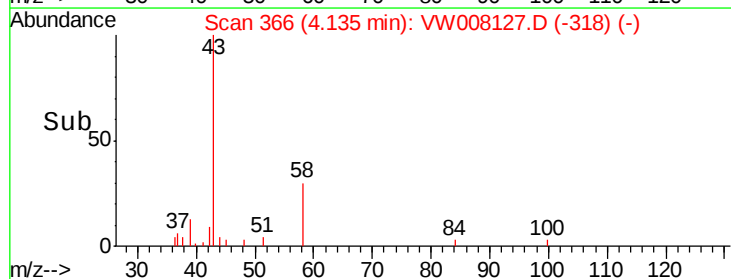
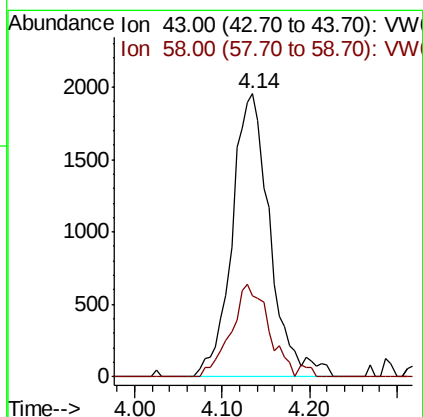
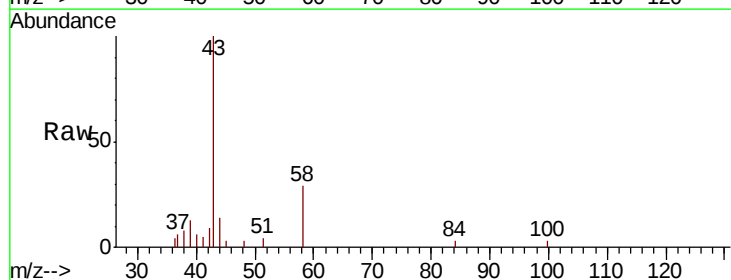
Instrument :  
MSVOA\_W  
ClientSampleId :  
SP-1-3RE

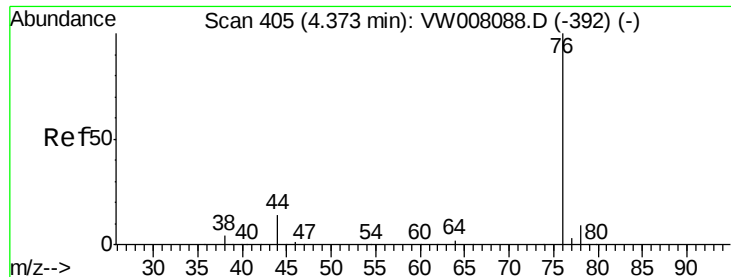
Tgt Ion: 59 Resp: 45  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.0 0.0



#16  
Acetone  
Concen: 23.230 ug/l  
RT: 4.14 min Scan# 366  
Delta R.T. -0.01 min  
Lab File: VW008127.D  
Acq: 10 Jan 2019 03:38

Tgt Ion: 43 Resp: 5903  
Ion Ratio Lower Upper  
43 100  
58 28.7 27.5 41.3





#17

Carbon Disulfide

Concen: 1.214 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW008127.D

Acq: 10 Jan 2019 03:38

Instrument :

MSVOA\_W

ClientSampled :

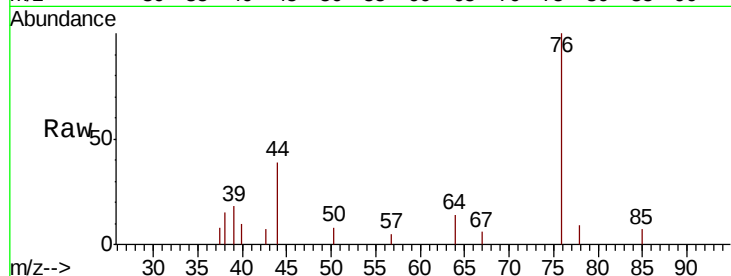
SP-1-3RE

Tgt Ion: 76 Resp: 2862

Ion Ratio Lower Upper

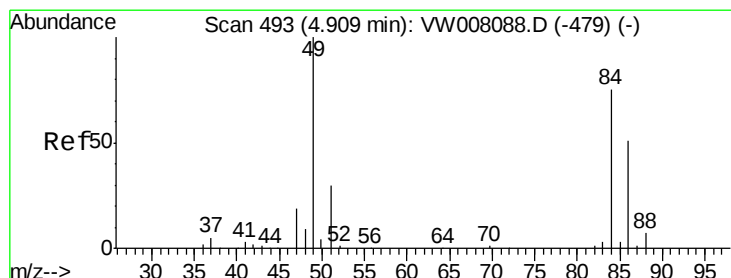
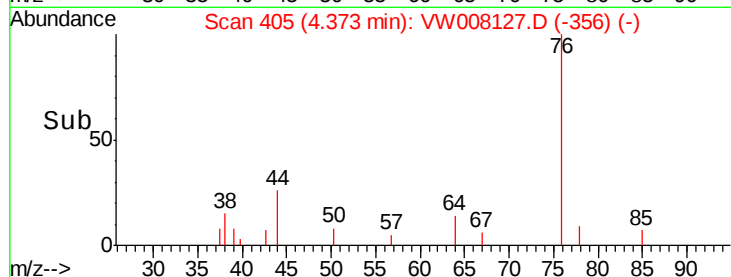
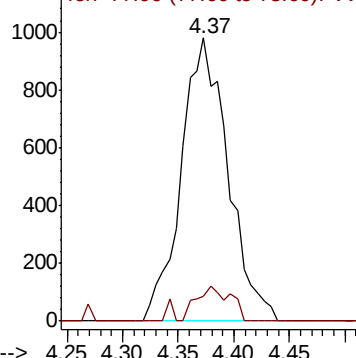
76 100

78 9.0 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 5.335 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW008127.D

Acq: 10 Jan 2019 03:38

Tgt Ion: 84 Resp: 7341

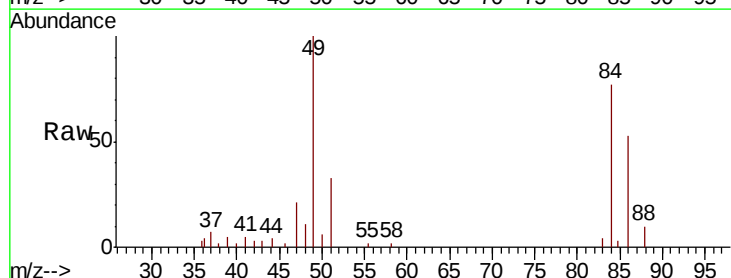
Ion Ratio Lower Upper

84 100

49 130.3 107.1 160.7

51 43.2 32.4 48.6

86 69.1 54.2 81.4

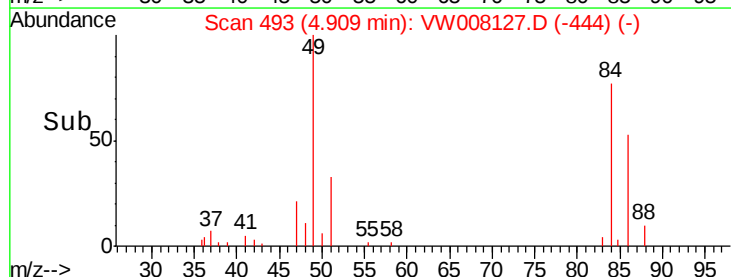
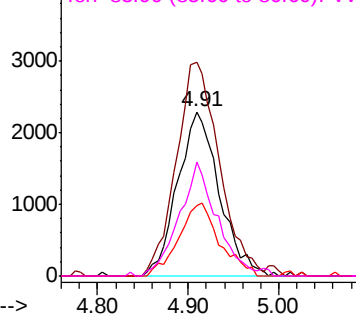


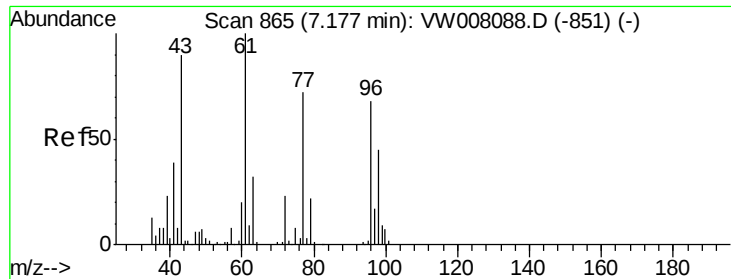
Abundance Ion 83.90 (83.60 to 84.60): VW

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

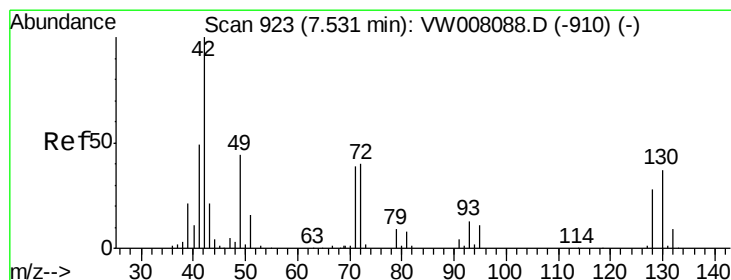
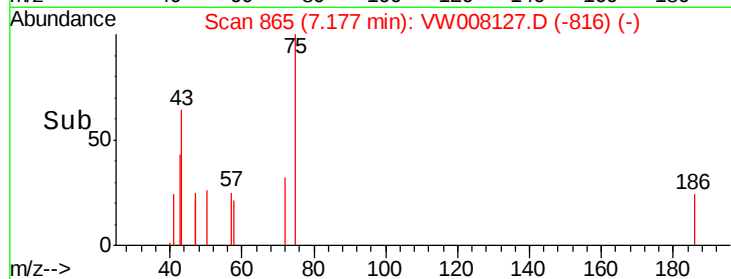
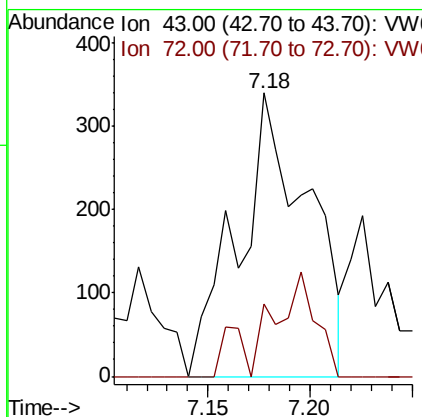
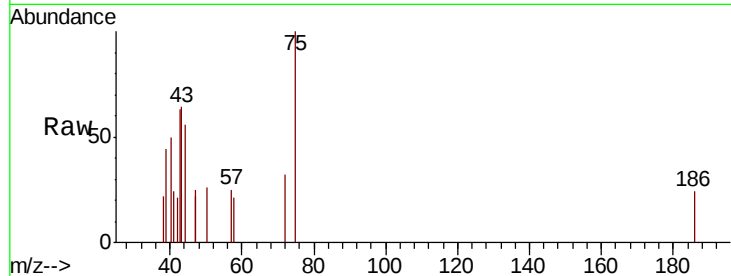




#25  
2-Butanone  
Concen: 3.755 ug/l  
RT: 7.18 min Scan# 865  
Delta R.T. -0.00 min  
Lab File: VW008127.D  
Acq: 10 Jan 2019 03:38

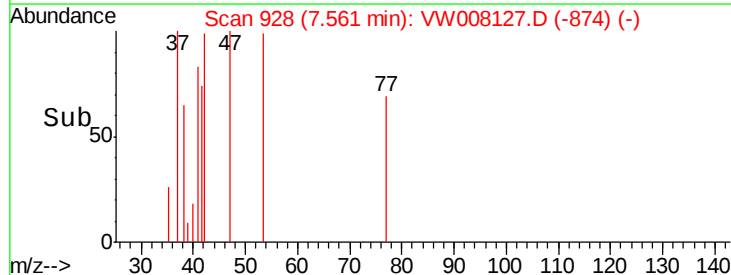
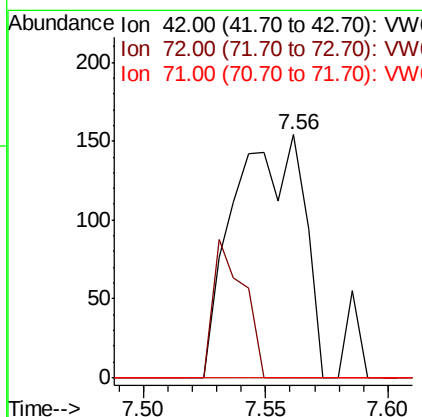
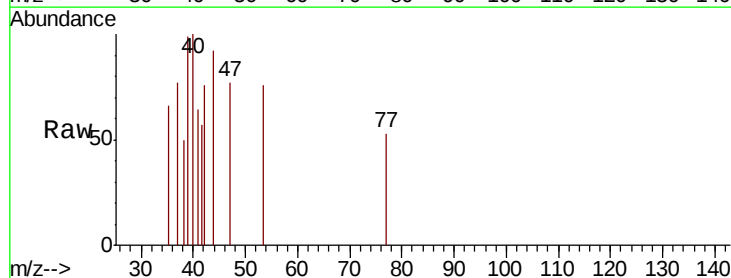
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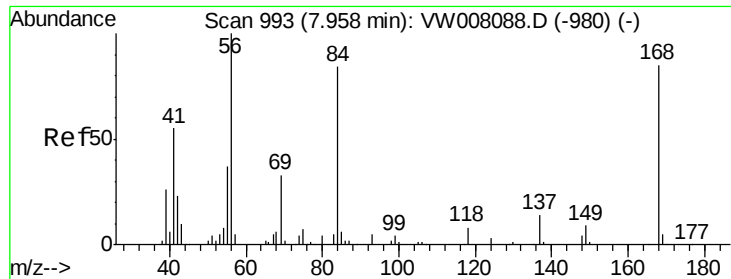
Tgt Ion: 43 Resp: 809  
Ion Ratio Lower Upper  
43 100  
72 25.7 20.5 30.7



#29  
Tetrahydrofuran  
Concen: 2.113 ug/l  
RT: 7.56 min Scan# 928  
Delta R.T. 0.03 min  
Lab File: VW008127.D  
Acq: 10 Jan 2019 03:38

Tgt Ion: 42 Resp: 304  
Ion Ratio Lower Upper  
42 100  
72 0.0 32.4 48.6#  
71 0.0 31.3 46.9#

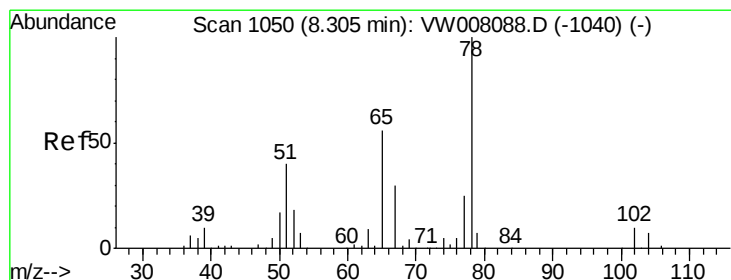
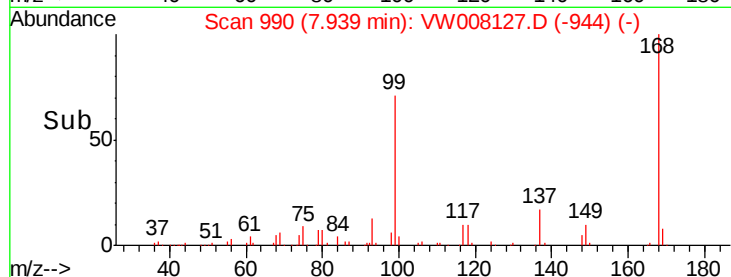
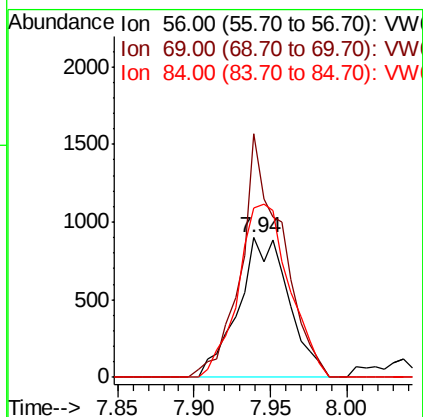
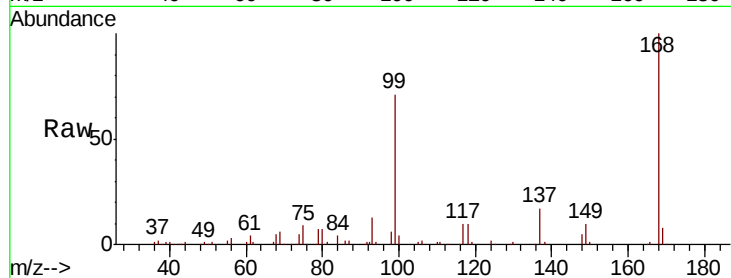




#31  
Cyclohexane  
Concen: 1.270 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.02 min  
Lab File: VW008127.D  
Acq: 10 Jan 2019 03:38

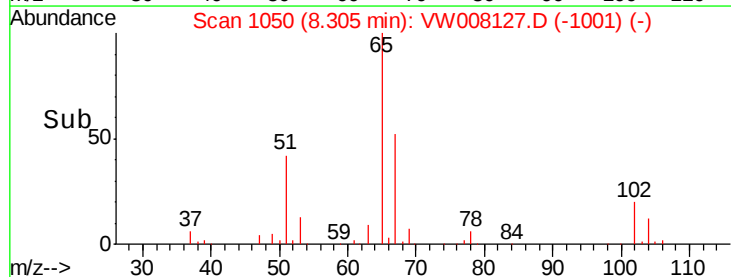
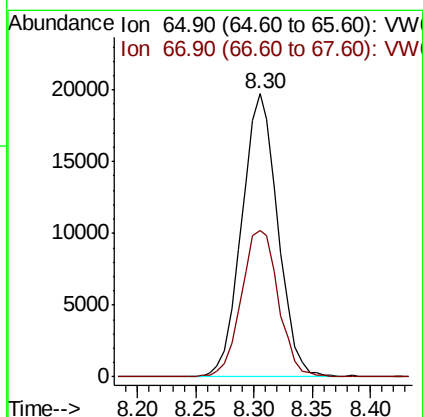
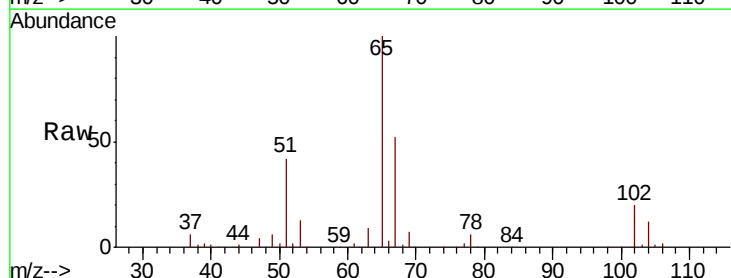
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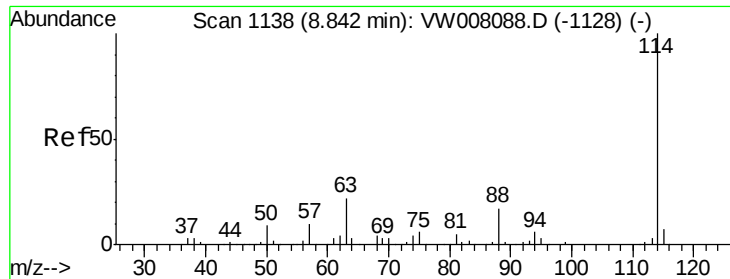
Tgt Ion: 56 Resp: 2070  
Ion Ratio Lower Upper  
56 100  
69 174.4 26.2 39.4#  
84 121.6 67.4 101.2#



#33  
1,2-Dichloroethane-d4  
Concen: 55.026 ug/l  
RT: 8.30 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW008127.D  
Acq: 10 Jan 2019 03:38

Tgt Ion: 65 Resp: 42605  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 106.8

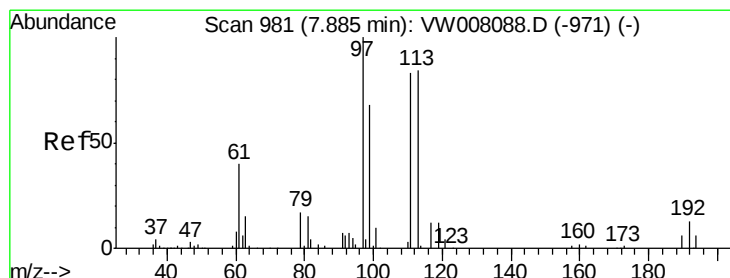
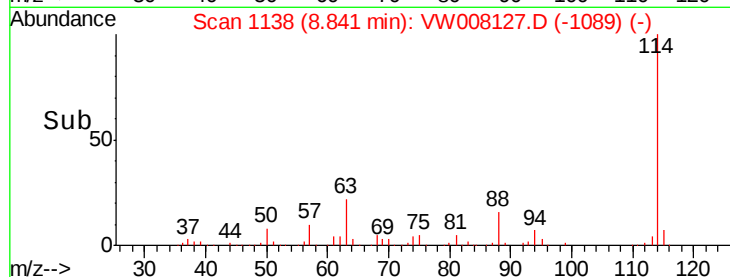
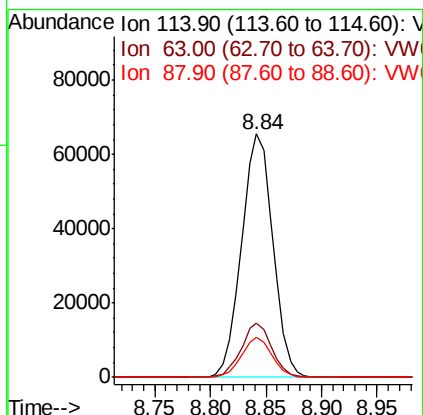
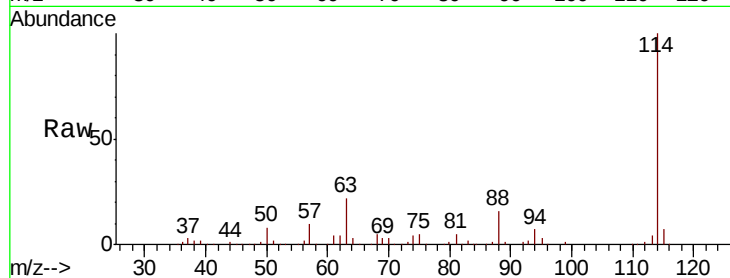




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW008127.D  
 Acq: 10 Jan 2019 03:38

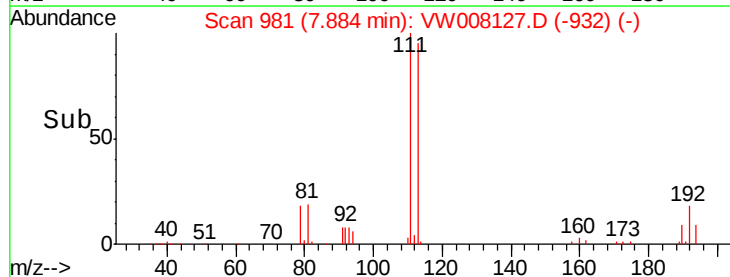
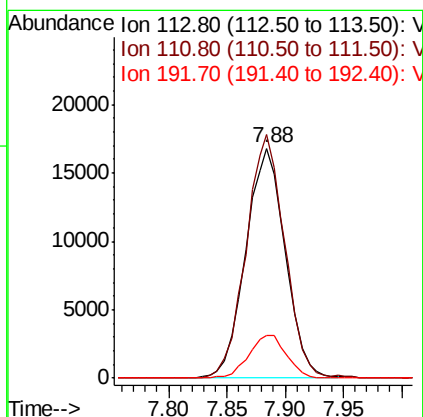
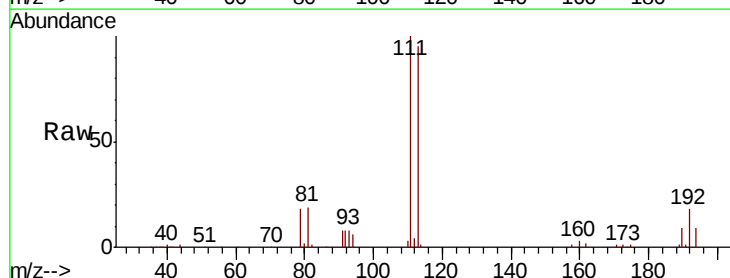
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 MSVOA\_W  
 ClientSampleId :  
 SP-1-3RE

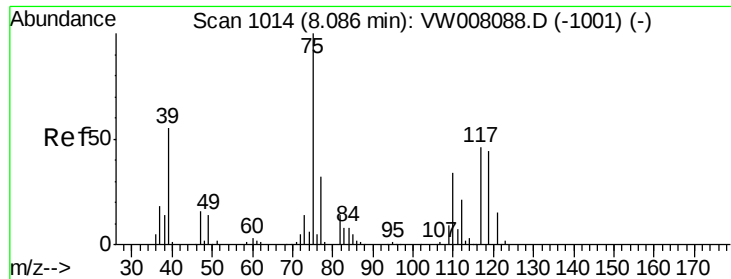
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 128463 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 22.1  | 0.0   | 43.4   |
| 88       | 16.4  | 0.0   | 33.4   |



#35  
 Dibromofluoromethane  
 Concen: 53.009 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW008127.D  
 Acq: 10 Jan 2019 03:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 39717 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.6 | 81.8  | 122.8 |
| 192      | 17.9  | 12.8  | 19.2  |

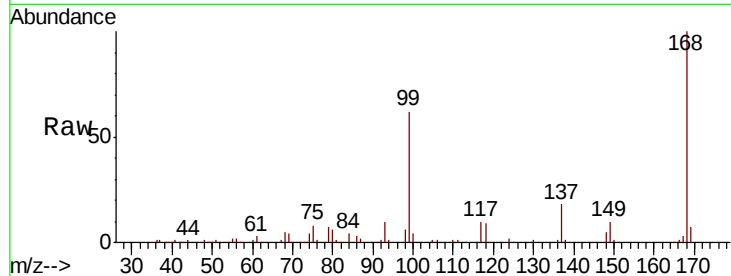




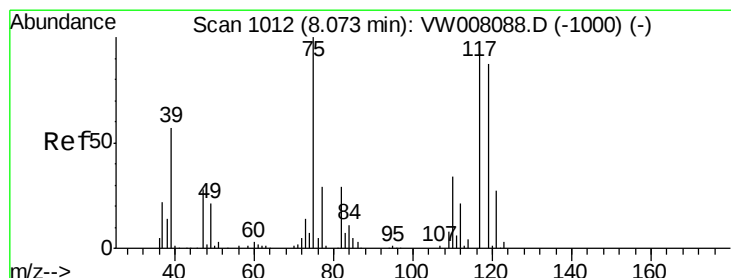
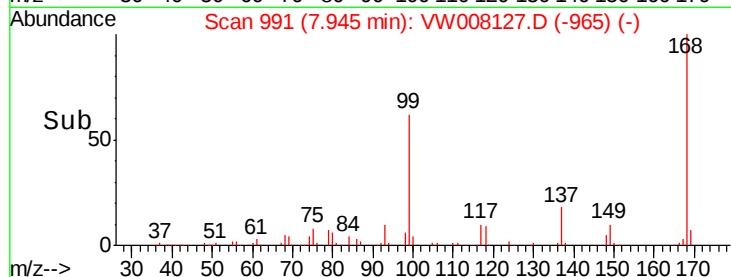
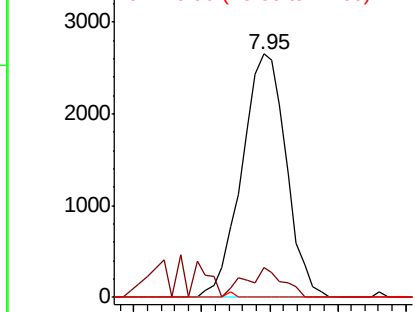
#36  
 1,1-Dichloropropene  
 Concen: 4.565 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW008127.D  
 Acq: 10 Jan 2019 03:38

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SP-1-3RE

Tgt Ion: 75 Resp: 6041  
 Ion Ratio Lower Upper  
 75 100  
 110 10.2 17.1 51.3#  
 77 0.0 25.5 38.3#

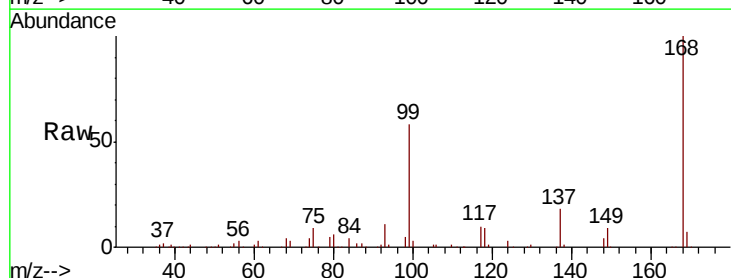


Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VW

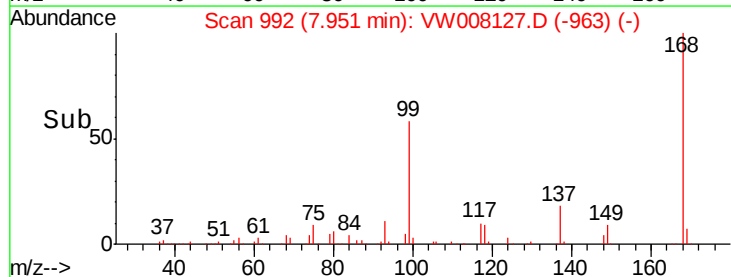
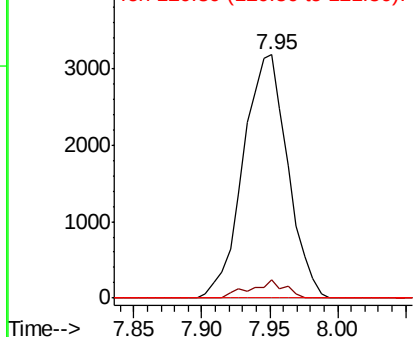


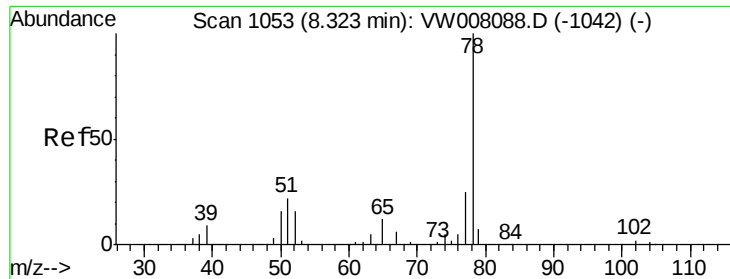
#38  
 Carbon Tetrachloride  
 Concen: 6.012 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW008127.D  
 Acq: 10 Jan 2019 03:38

Tgt Ion: 117 Resp: 7282  
 Ion Ratio Lower Upper  
 117 100  
 119 7.6 75.8 113.8#  
 121 0.0 23.7 35.5#



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





#40

Benzene

Concen: 1.608 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW008127.D

Acq: 10 Jan 2019 03:38

Instrument :

MSVOA\_W

ClientSampleId :

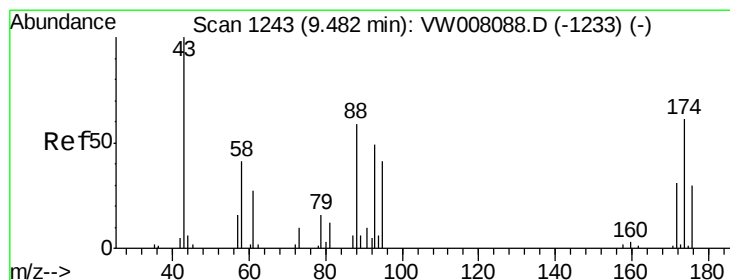
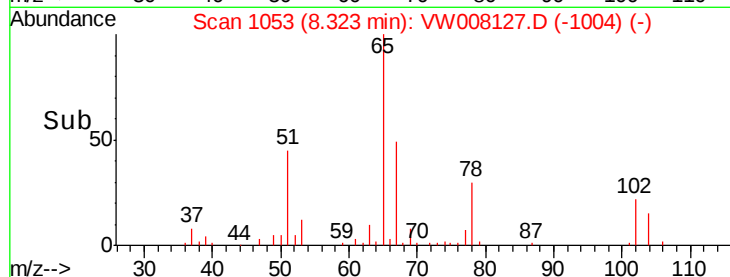
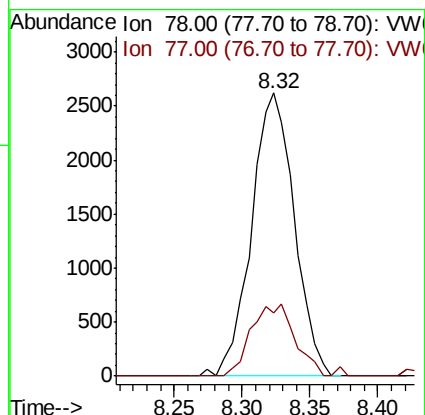
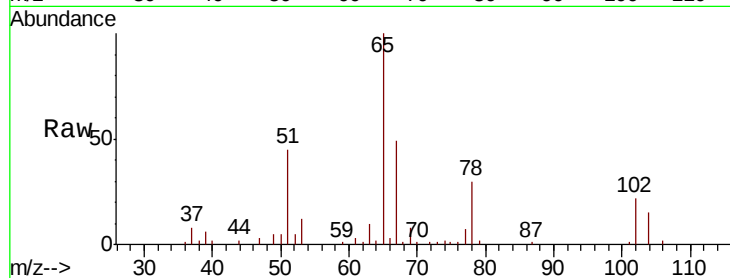
SP-1-3RE

Tgt Ion: 78 Resp: 5770

Ion Ratio Lower Upper

78 100

77 22.4 20.2 30.4



#49

1,4-Dioxane

Concen: 2.561 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. -0.01 min

Lab File: VW008127.D

Acq: 10 Jan 2019 03:38

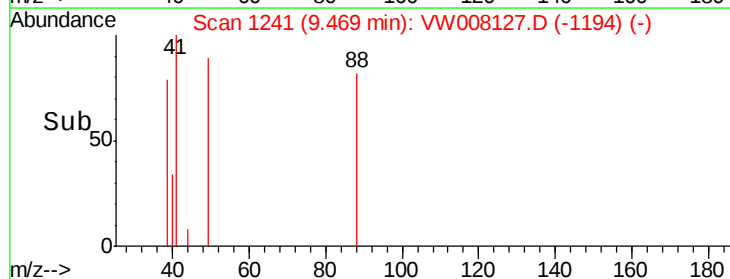
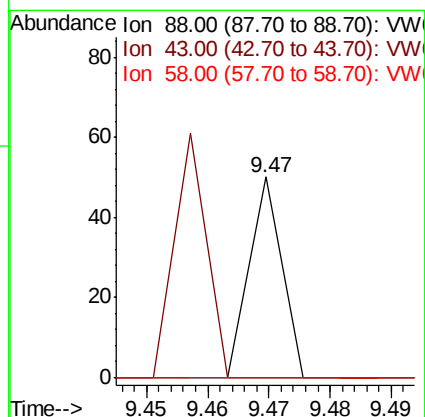
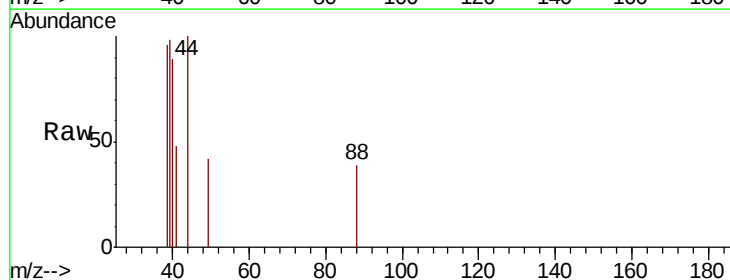
Tgt Ion: 88 Resp: 18

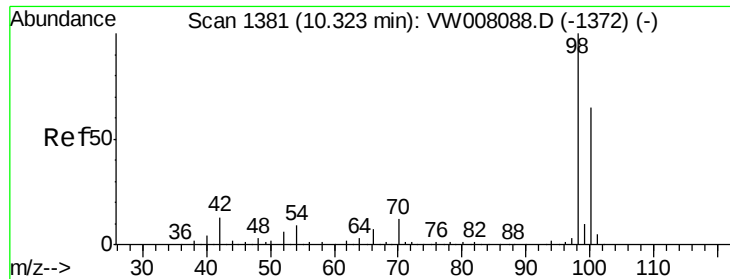
Ion Ratio Lower Upper

88 100

43 122.2 0.0 0.0#

58 0.0 61.7 92.5#





#50

Toluene-d8

Concen: 51.832 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008127.D

Acq: 10 Jan 2019 03:38

Instrument :

MSVOA\_W

ClientSampleId :

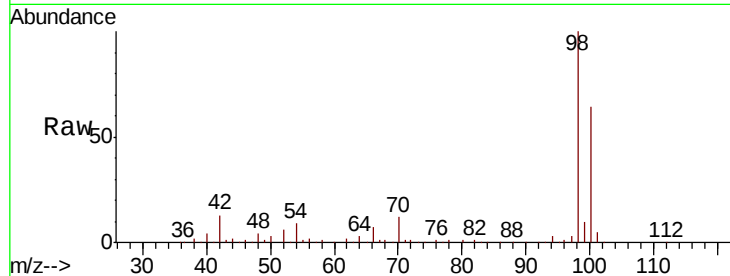
SP-1-3RE

Tgt Ion: 98 Resp: 162966

Ion Ratio Lower Upper

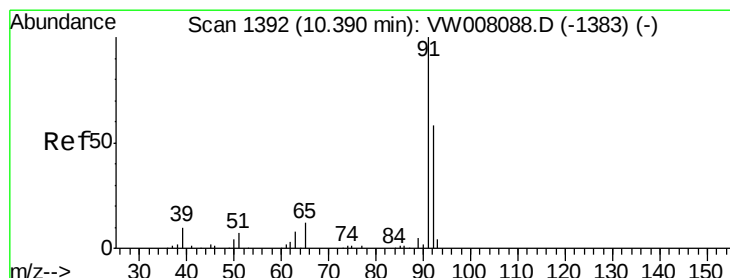
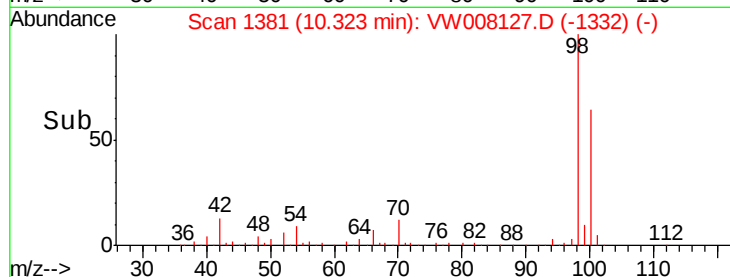
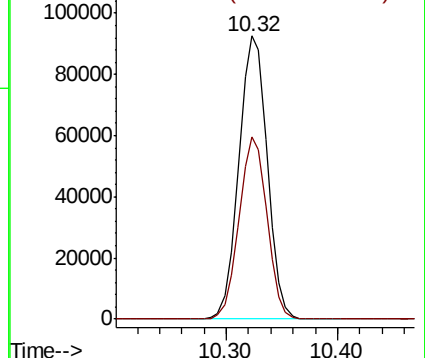
98 100

100 63.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Toluene

Concen: 17.374 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW008127.D

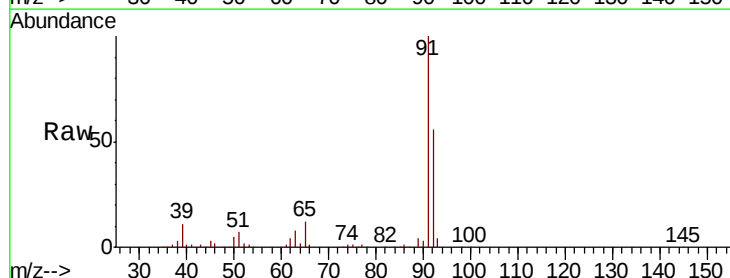
Acq: 10 Jan 2019 03:38

Tgt Ion: 92 Resp: 39825

Ion Ratio Lower Upper

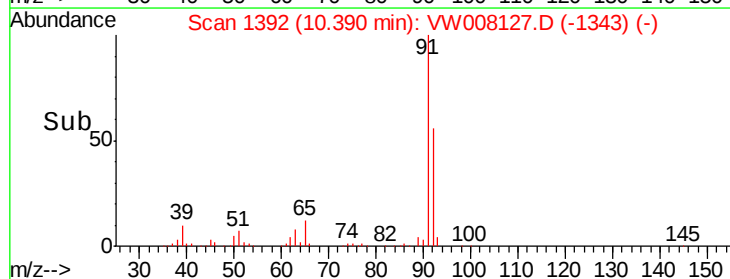
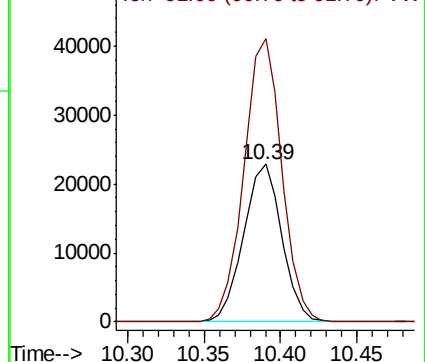
92 100

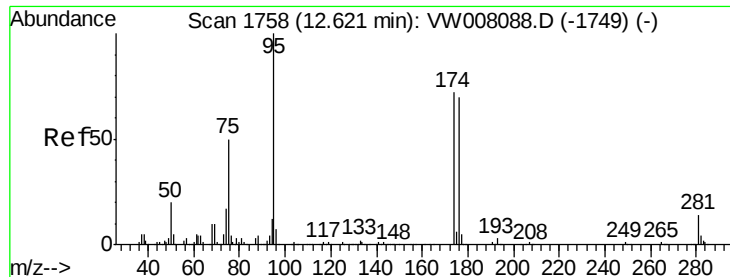
91 177.5 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#62

4-Bromofluorobenzene

Concen: 47.973 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008127.D

Acq: 10 Jan 2019 03:38

Instrument :

MSVOA\_W

ClientSampleId :

SP-1-3RE

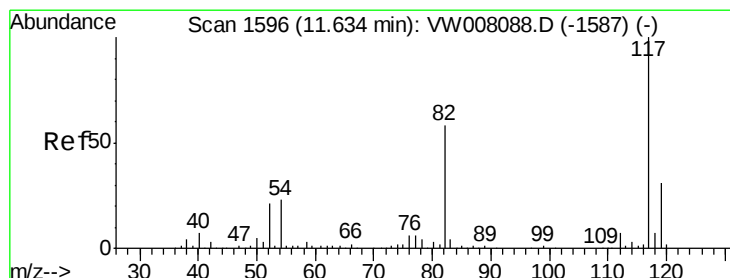
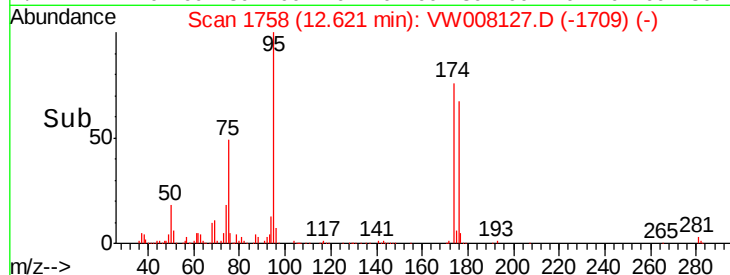
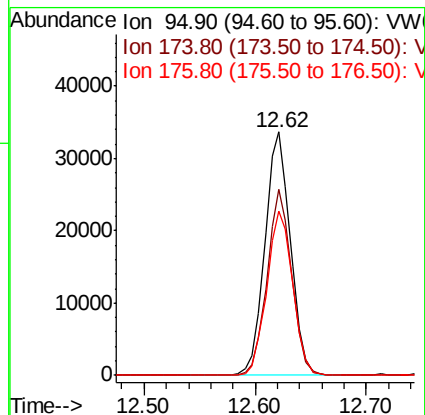
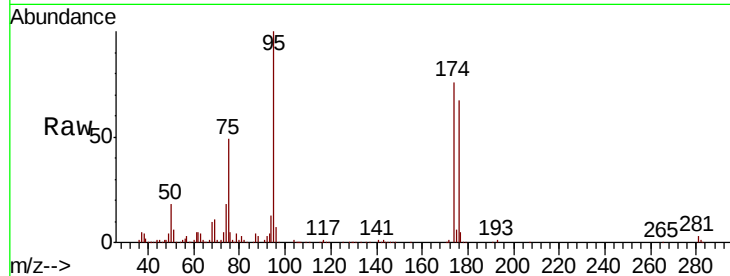
Tgt Ion: 95 Resp: 54073

Ion Ratio Lower Upper

95 100

174 73.1 0.0 143.0

176 68.1 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: VW008127.D

Acq: 10 Jan 2019 03:38

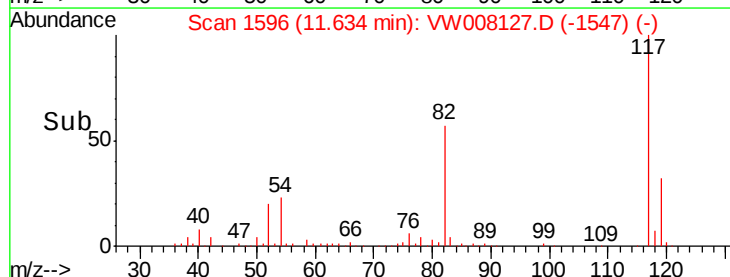
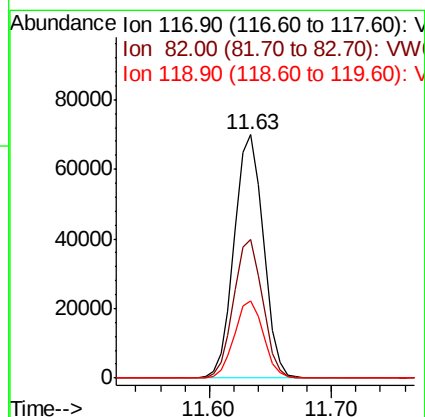
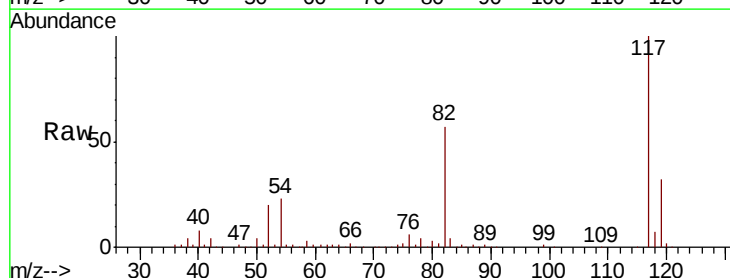
Tgt Ion: 117 Resp: 115458

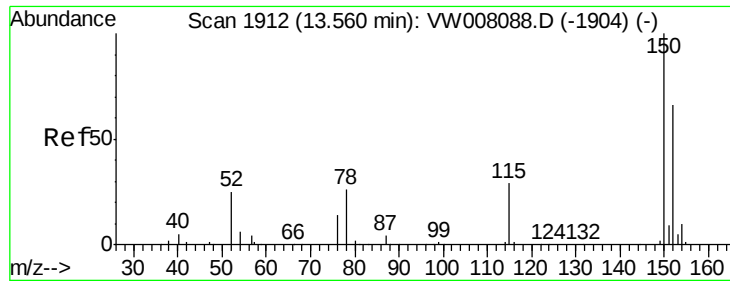
Ion Ratio Lower Upper

117 100

82 56.8 46.4 69.6

119 31.9 24.7 37.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW008127.D

Acq: 10 Jan 2019 03:38

Instrument :

MSVOA\_W

ClientSampleId :

SP-1-3RE

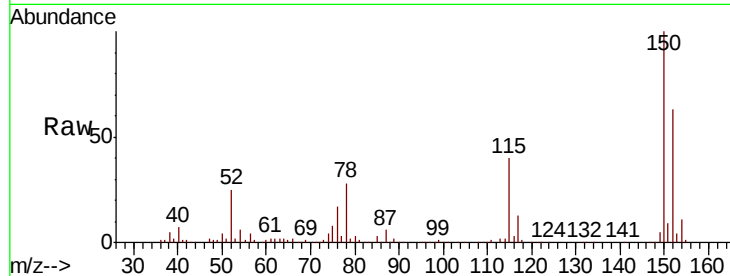
Tgt Ion:152 Resp: 49964

Ion Ratio Lower Upper

152 100

115 62.7 30.8 92.4

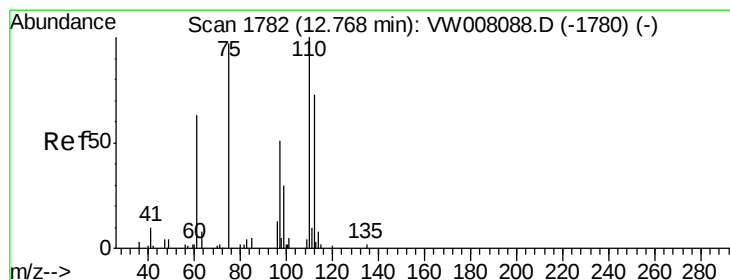
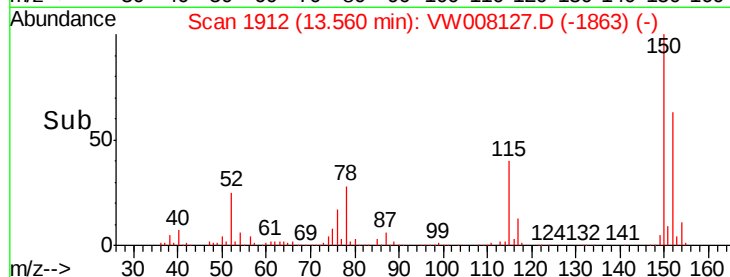
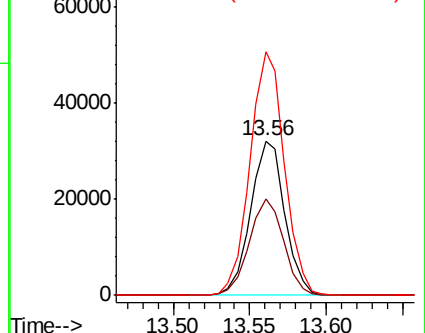
150 158.5 0.0 350.2



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: 59.691 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008127.D

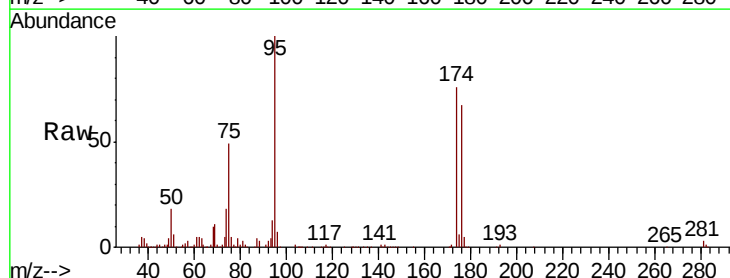
Acq: 10 Jan 2019 03:38

Tgt Ion: 75 Resp: 27188

Ion Ratio Lower Upper

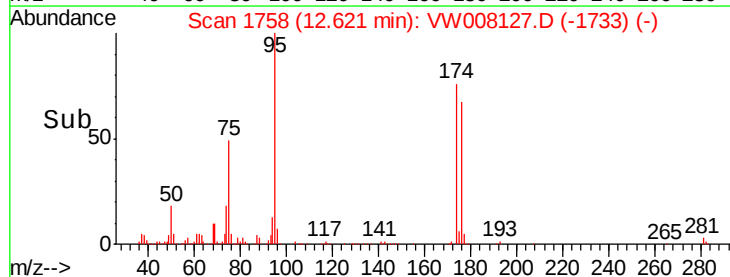
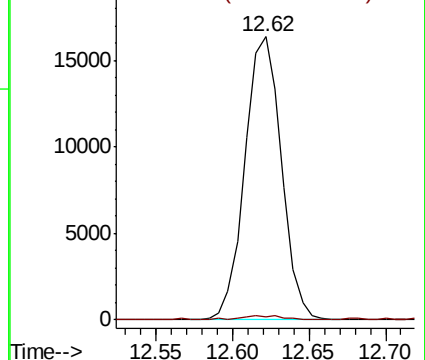
75 100

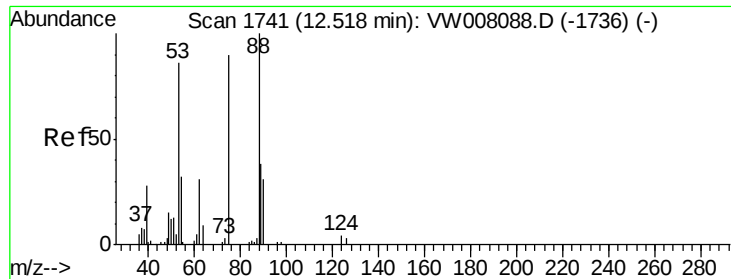
77 1.8 179.4 538.2#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 139.003 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008127.D

Acq: 10 Jan 2019 03:38

Instrument :

MSVOA\_W

ClientSampleId :

SP-1-3RE

Tgt Ion: 75 Resp: 27188

Ion Ratio Lower Upper

75 100

53 0.3 78.8 118.2#

89 0.1 35.4 53.2#

