

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022619\  
 Data File : VW008832.D  
 Acq On : 26 Feb 2019 15:57  
 Operator : SY/VA  
 Sample : K1620-09  
 Misc : 6.13G/5ML/MSVOA W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-05

Quant Time: Feb 27 05:58:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 22 00:38:32 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 353210   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 539846   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 470200   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 204140   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 194540   | 58.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 117.44% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 171743   | 52.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.98% |          |
| 50) Toluene-d8              | 10.32 | 98   | 641666   | 51.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.56% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 208813   | 42.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 85.24%  |          |

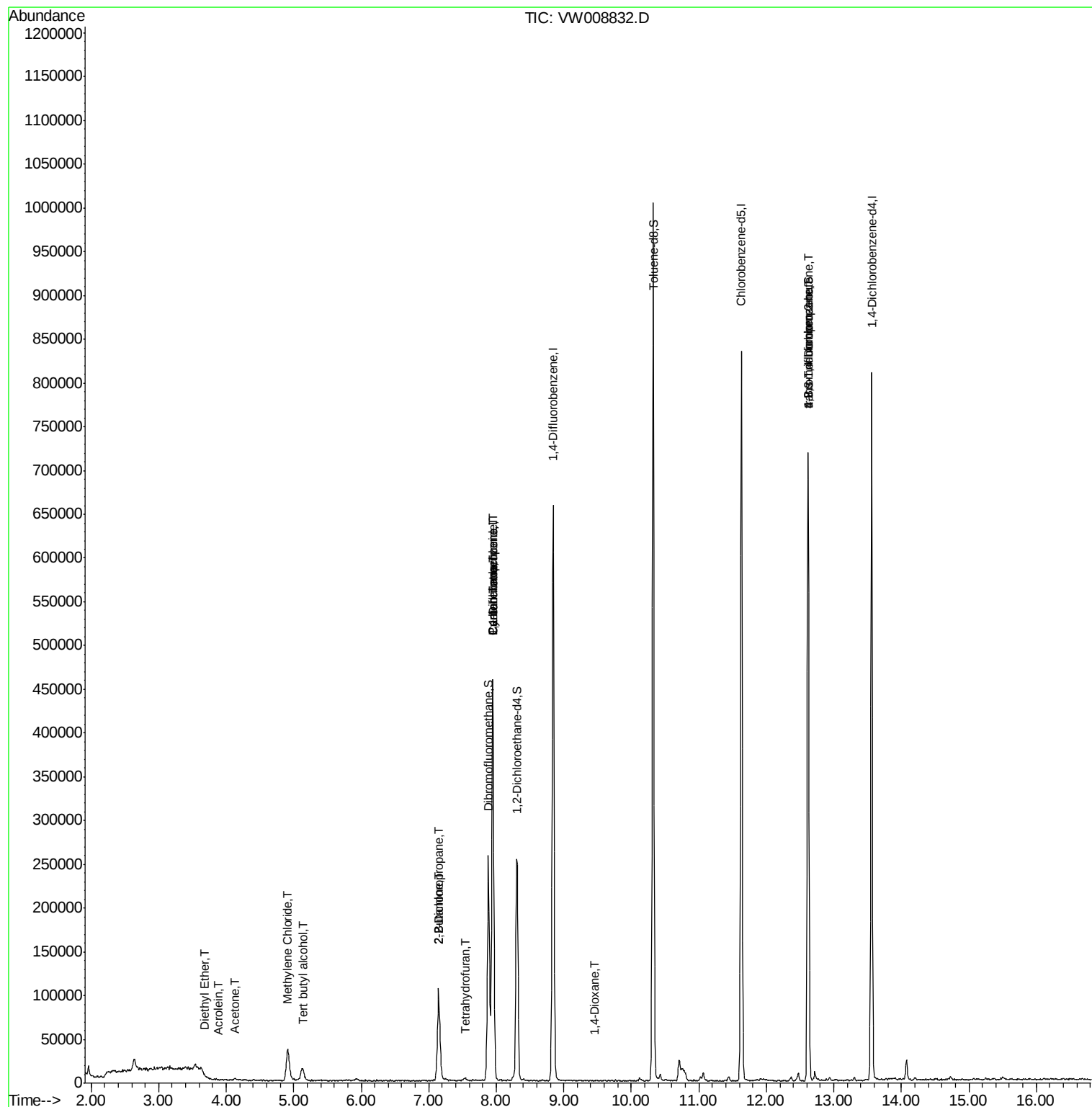
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 1969     | 1.079   | ug/l   | 86     |
| 11) Tert butyl alcohol         | 5.13  | 59   | 13037    | 44.204  | ug/l # | 75     |
| 13) Acrolein                   | 3.89  | 56   | 89       | 20.043  | ug/l # | 31     |
| 16) Acetone                    | 4.13  | 43   | 2971     | 3.869   | ug/l   | 98     |
| 20) Methylene Chloride         | 4.91  | 84   | 27444    | 2.390   | ug/l   | 97     |
| 25) 2-Butanone                 | 7.15  | 43   | 5637     | 5.251   | ug/l # | 65     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 6892     | 1.230   | ug/l # | 54     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 2348     | 3.432   | ug/l # | 91     |
| 31) Cyclohexane                | 7.95  | 56   | 8183     | 1.310   | ug/l # | 26     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 26595    | 5.061   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 32769    | 5.913   | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.46  | 88   | 37       | 1.172   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 110172   | 65.367  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 110172   | 158.911 | ug/l # | 6      |

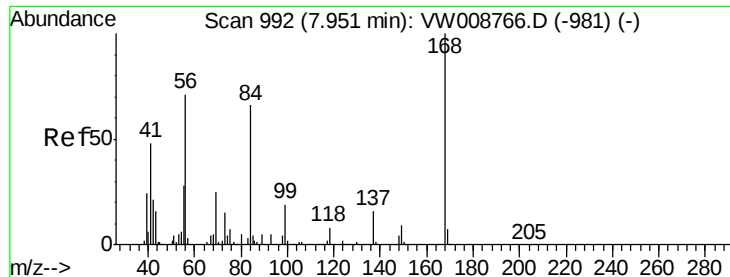
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW022619\  
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MSVOA\_W  
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Quant Time: Feb 27 05:58:53 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 22 00:38:32 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

Instrument :

MSVOA\_W

ClientSampleId :

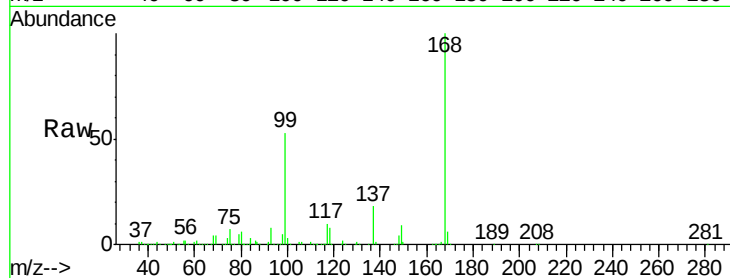
SB-05

Tot Ion:168 Resp: 353210

Ion Ratio Lower Upper

168 100

99 53.4 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

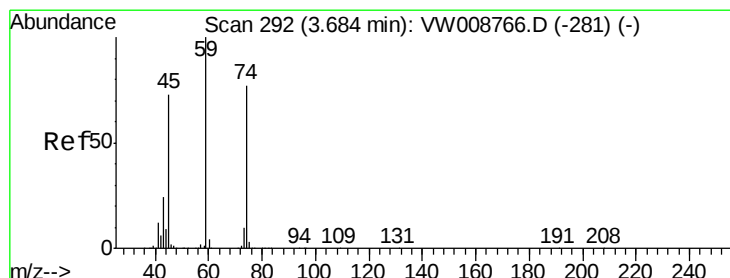
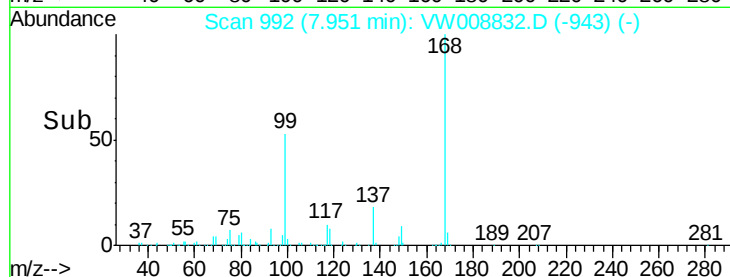
100000

50000

0

7.90 8.00 8.10

Time-->



#8

Diethyl Ether

Concen: 1.079 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.00 min

Lab File: VW008832.D

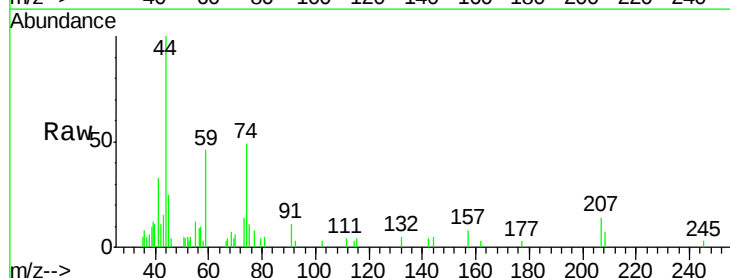
Acq: 26 Feb 2019 15:57

Tgt Ion: 74 Resp: 1969

Ion Ratio Lower Upper

74 100

45 114.4 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

1000

800

600

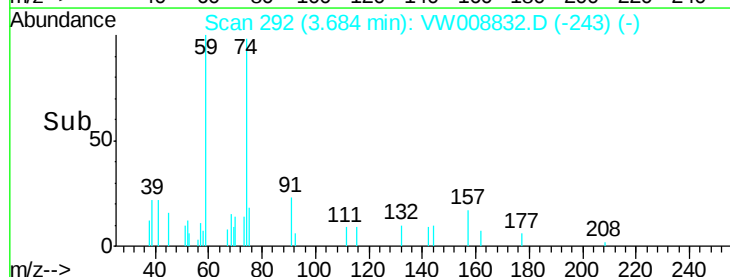
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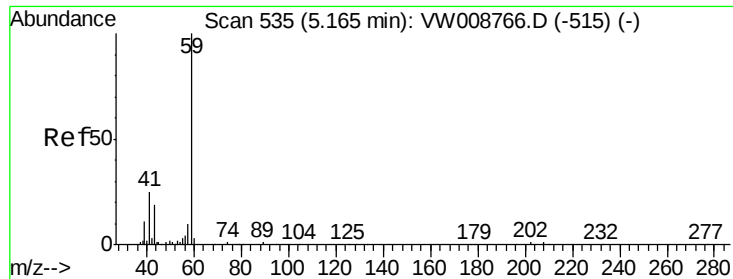
200

0

3.60 3.65 3.70 3.75

Time-->

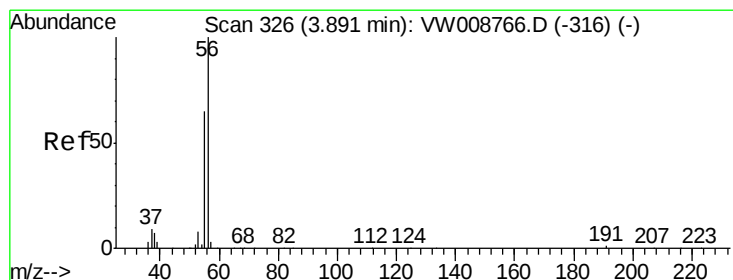
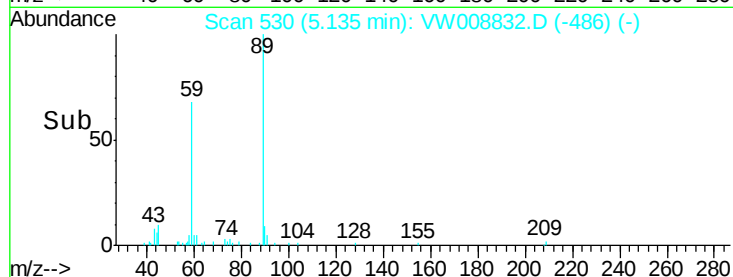
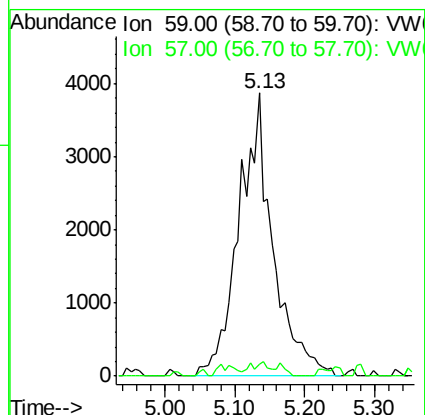
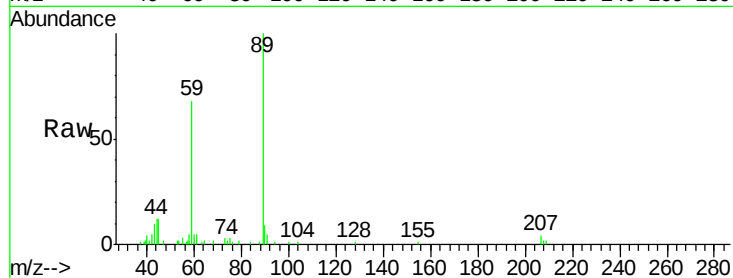




#11  
Tert butyl alcohol  
Concen: 44.204 ug/l  
RT: 5.13 min Scan# 530  
Delta R.T. -0.03 min  
Lab File: VW008832.D  
Acq: 26 Feb 2019 15:57

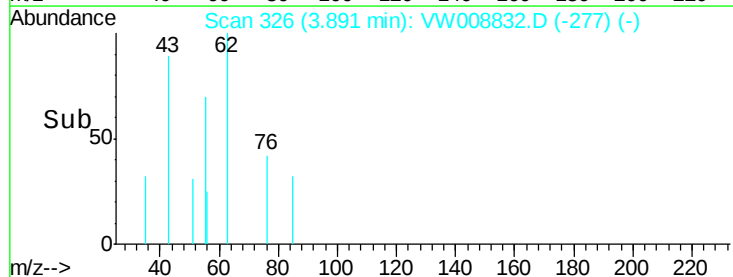
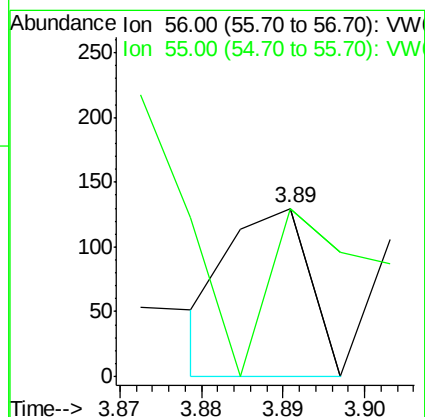
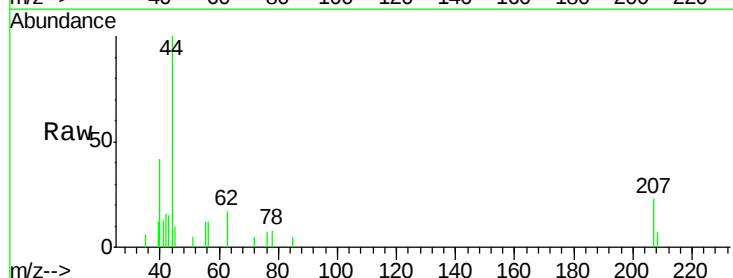
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-05

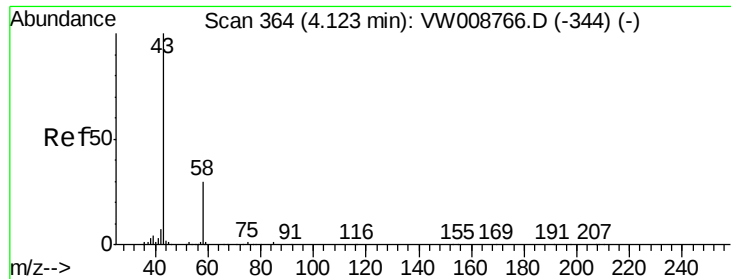
Tot Ion: 59 Resp: 13037  
Ion Ratio Lower Upper  
59 100  
57 1.8 9.3 13.9#



#13  
Acrolein  
Concen: 20.043 ug/l  
RT: 3.89 min Scan# 326  
Delta R.T. -0.00 min  
Lab File: VW008832.D  
Acq: 26 Feb 2019 15:57

Tgt Ion: 56 Resp: 89  
Ion Ratio Lower Upper  
56 100  
55 128.1 56.9 85.3#

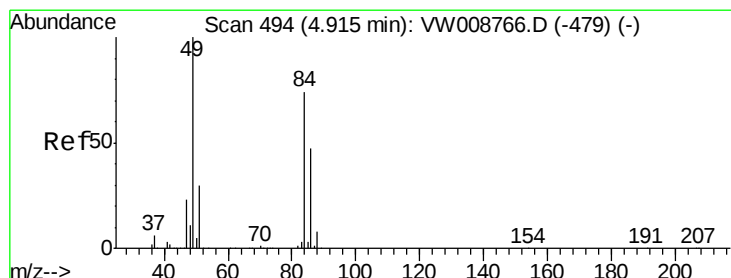
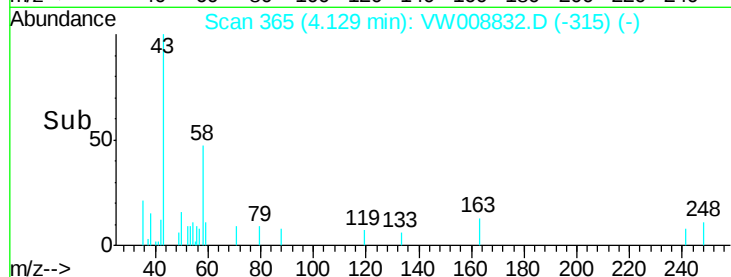
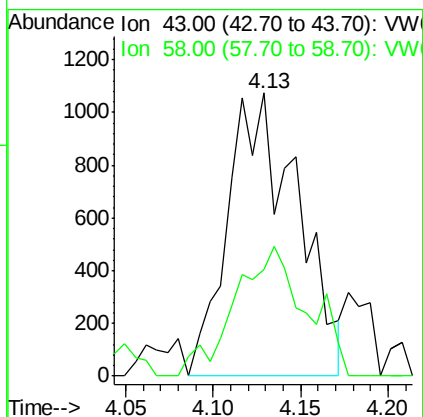
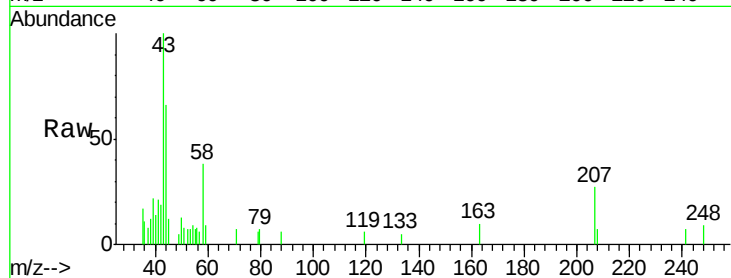




#16  
Acetone  
Concen: 3.869 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. 0.01 min  
Lab File: VW008832.D  
Acq: 26 Feb 2019 15:57

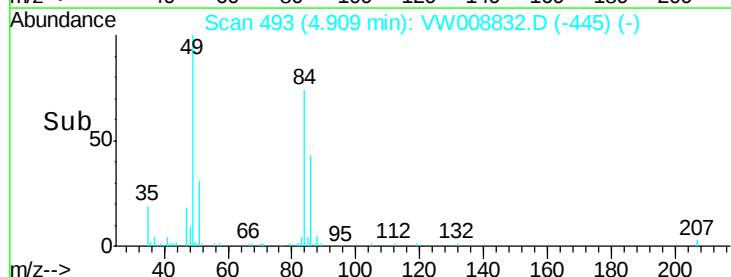
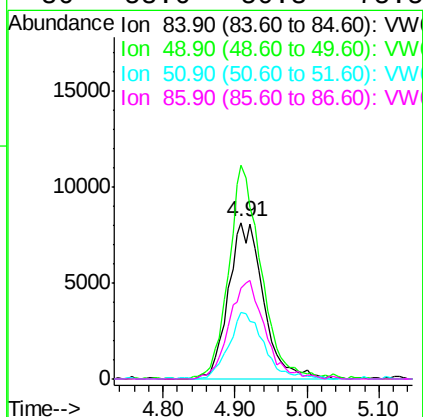
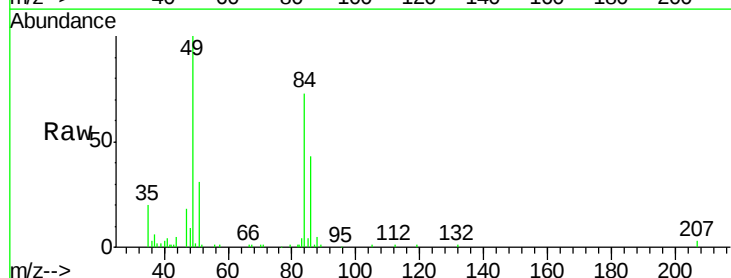
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-05

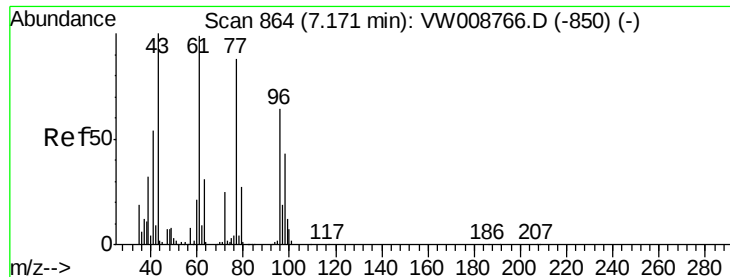
Tot Ion: 43 Resp: 2971  
Ion Ratio Lower Upper  
43 100  
58 30.7 23.8 35.6



#20  
Methylene Chloride  
Concen: 2.390 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW008832.D  
Acq: 26 Feb 2019 15:57

Tgt Ion: 84 Resp: 27444  
Ion Ratio Lower Upper  
84 100  
49 136.6 108.2 162.2  
51 42.4 32.7 49.1  
86 58.6 50.3 75.5





#25

2-Butanone

Concen: 5.251 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

Instrument :

MSVOA\_W

ClientSampleId :

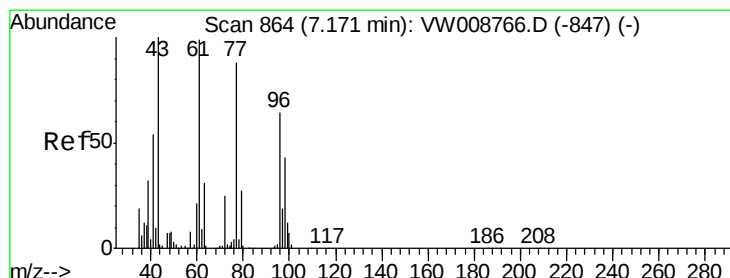
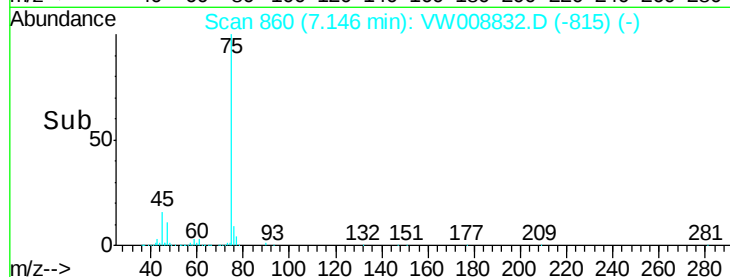
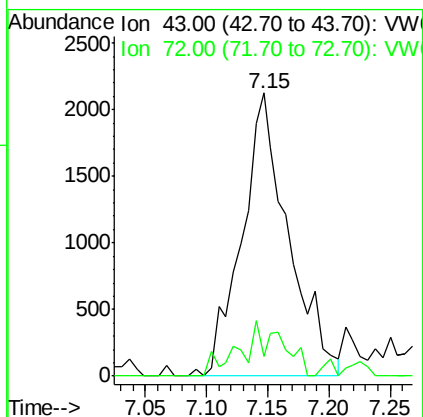
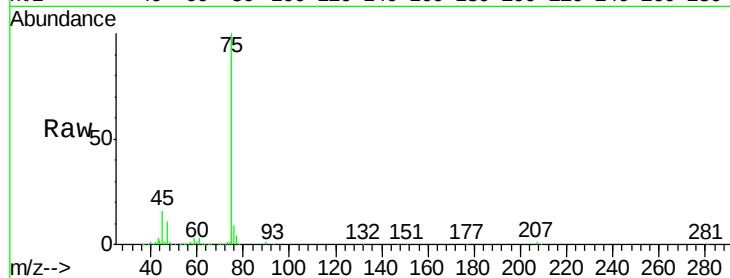
SB-05

Tot Ion: 43 Resp: 5637

Ion Ratio Lower Upper

43 100

72 7.0 19.7 29.5#



#26

2,2-Dichloropropane

Concen: 1.230 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008832.D

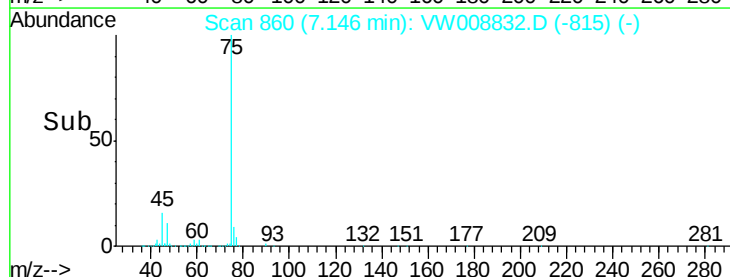
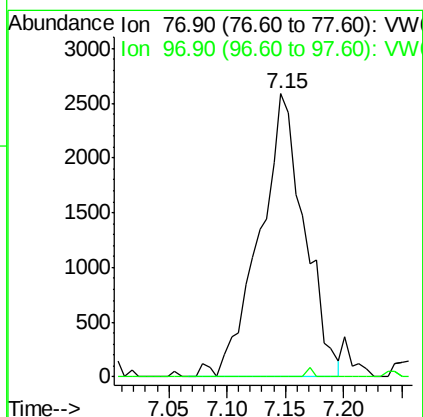
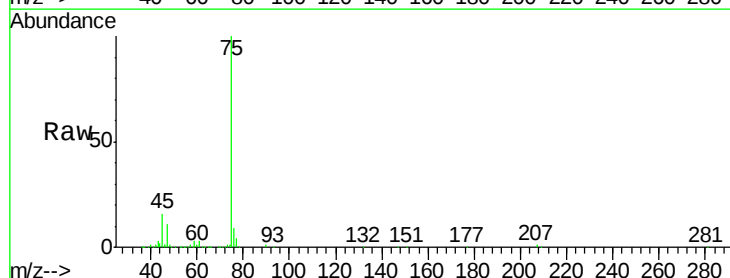
Acq: 26 Feb 2019 15:57

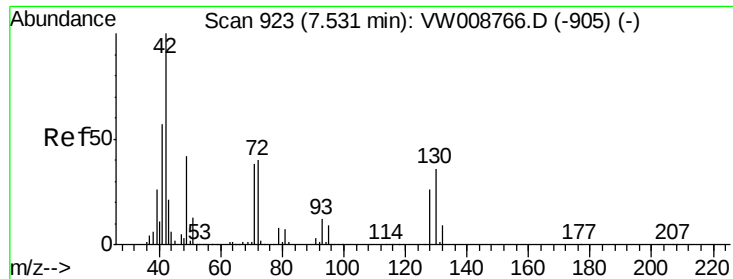
Tgt Ion: 77 Resp: 6892

Ion Ratio Lower Upper

77 100

97 0.0 11.0 33.0#

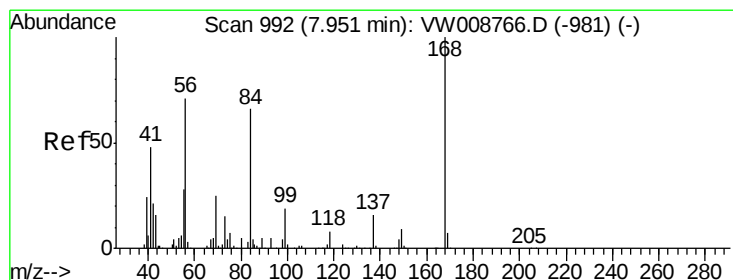
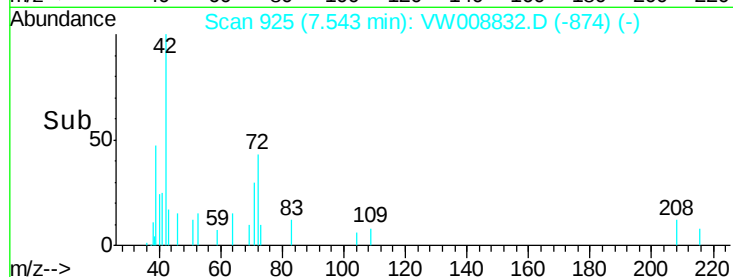
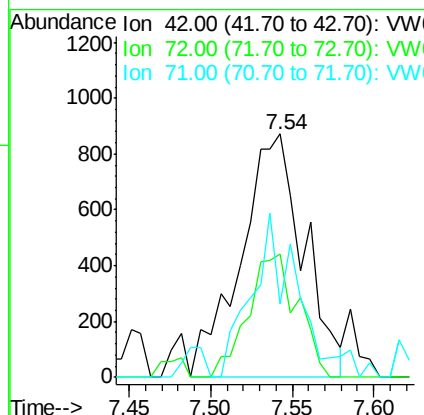
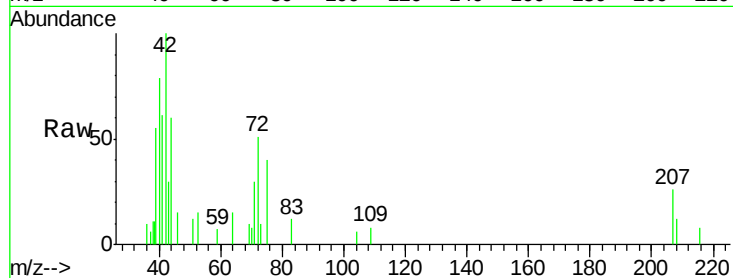




#29  
Tetrahydrofuran  
Concen: 3.432 ug/l  
RT: 7.54 min Scan# 925  
Delta R.T. 0.01 min  
Lab File: VW008832.D  
Acq: 26 Feb 2019 15:57

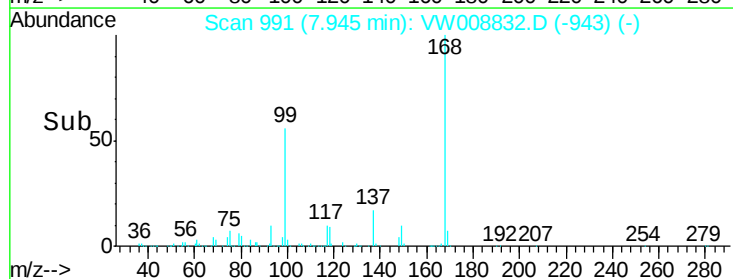
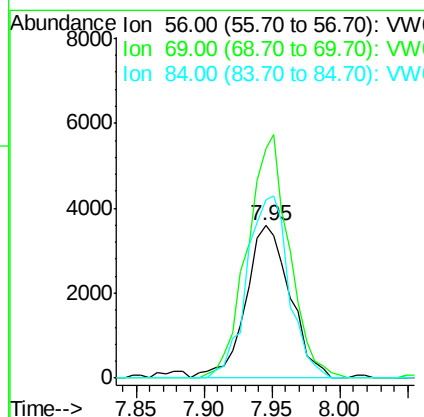
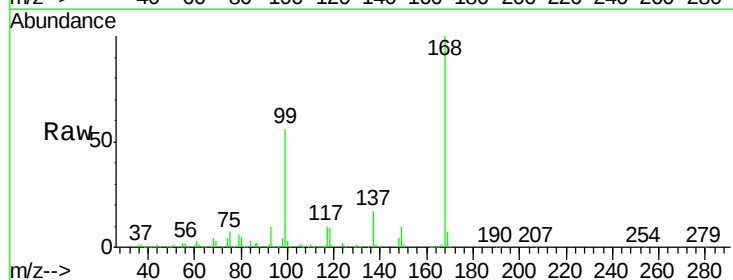
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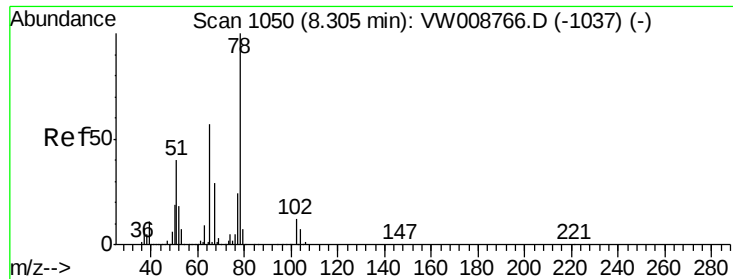
Tot Ion: 42 Resp: 2348  
Ion Ratio Lower Upper  
42 100  
72 40.2 32.7 49.1  
71 49.8 31.3 46.9#



#31  
Cyclohexane  
Concen: 1.310 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW008832.D  
Acq: 26 Feb 2019 15:57

Tgt Ion: 56 Resp: 8183  
Ion Ratio Lower Upper  
56 100  
69 151.1 28.2 42.4#  
84 117.3 74.1 111.1#

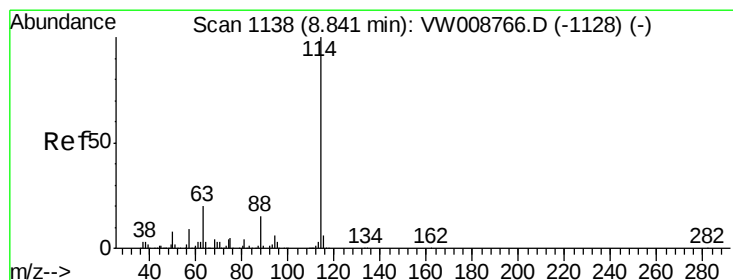
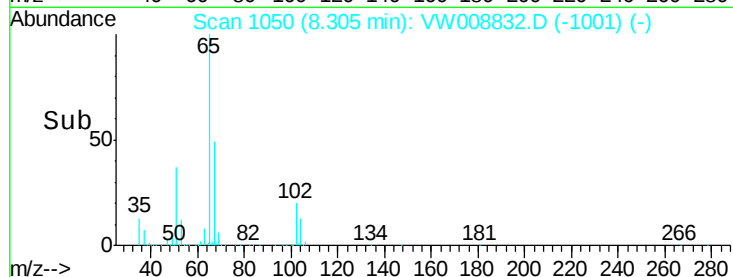
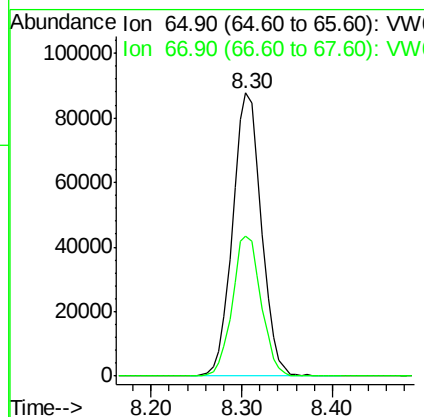
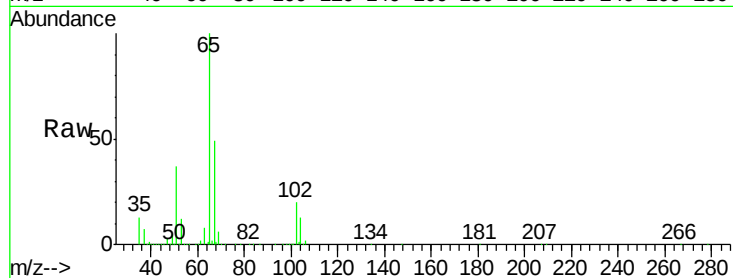




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.724 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW008832.D  
 Acq: 26 Feb 2019 15:57

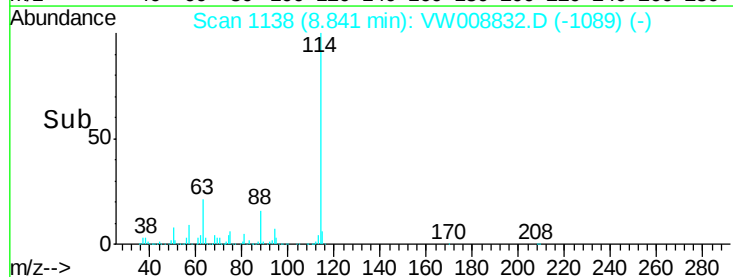
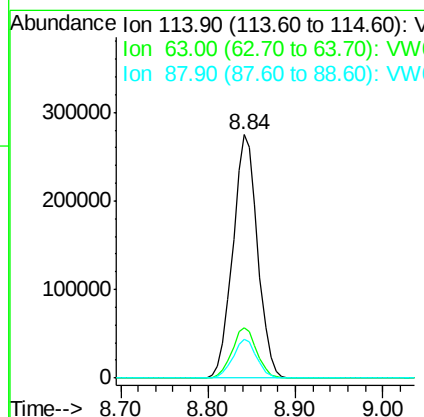
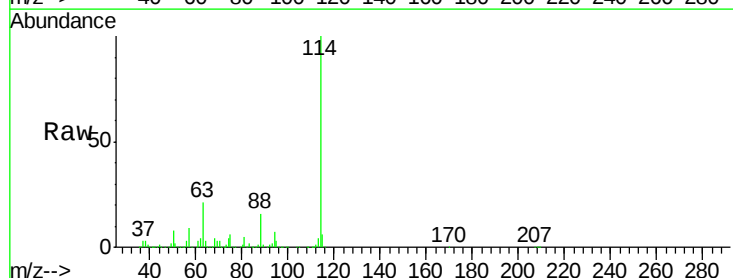
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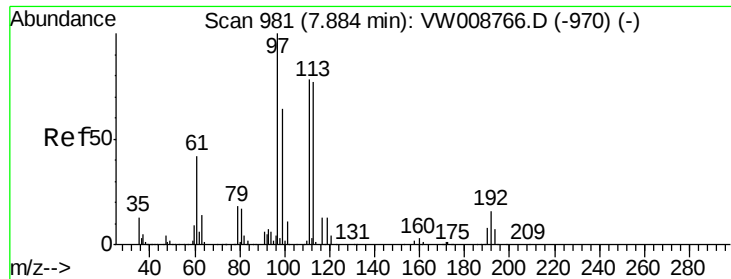
Tot Ion: 65 Resp: 194540  
 Ion Ratio Lower Upper  
 65 100  
 67 49.5 0.0 101.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW008832.D  
 Acq: 26 Feb 2019 15:57

Tgt Ion: 114 Resp: 539846  
 Ion Ratio Lower Upper  
 114 100  
 63 20.5 0.0 40.8  
 88 15.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 52.986 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

Instrument :

MSVOA\_W

ClientSampled :

SB-05

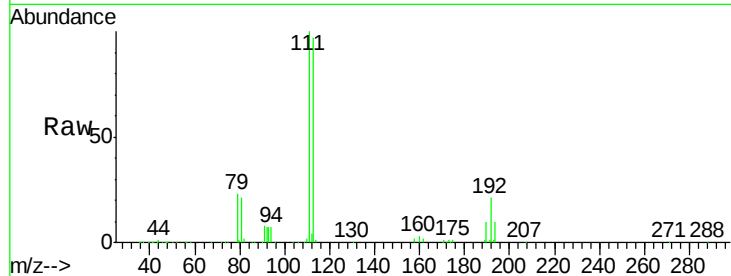
Tot Ion:113 Resp: 171743

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

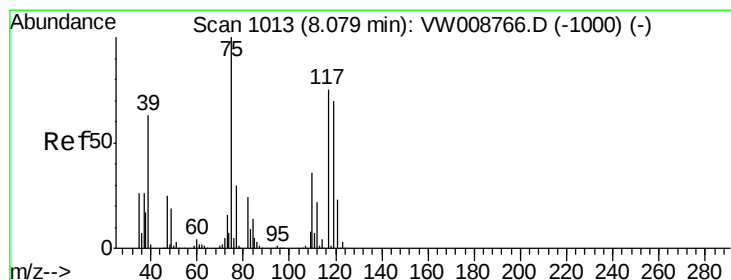
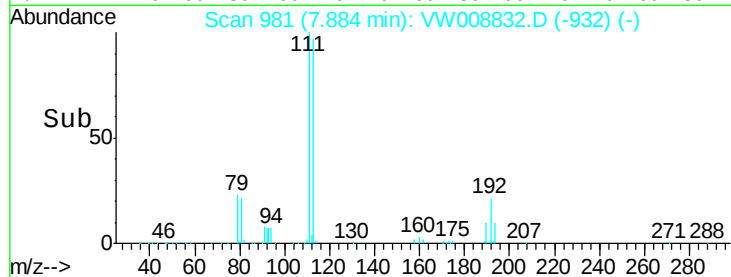
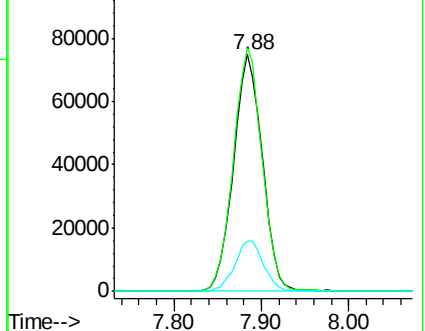
192 21.5 17.1 25.7



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: 5.061 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

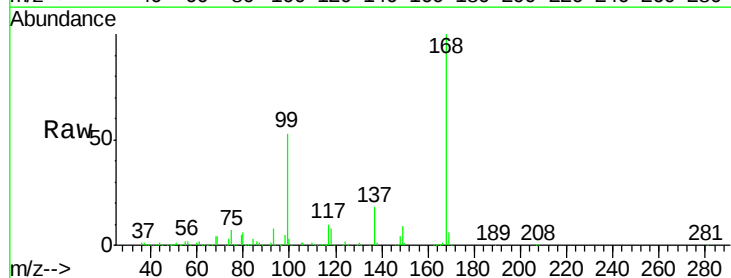
Tgt Ion: 75 Resp: 26595

Ion Ratio Lower Upper

75 100

110 8.8 17.5 52.6#

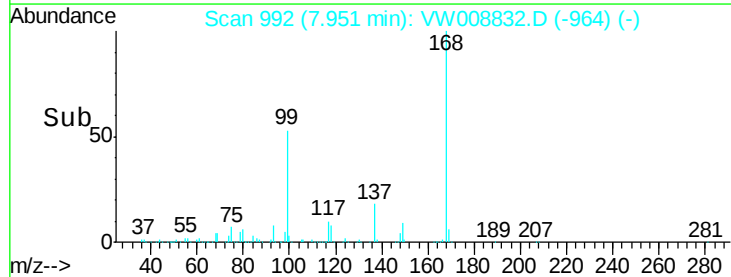
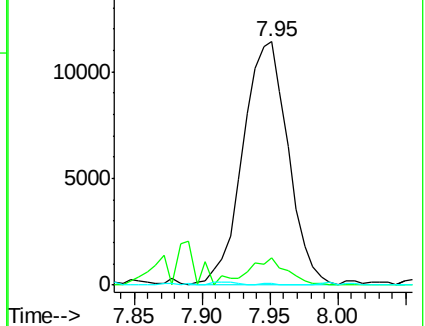
77 0.2 24.5 36.7#

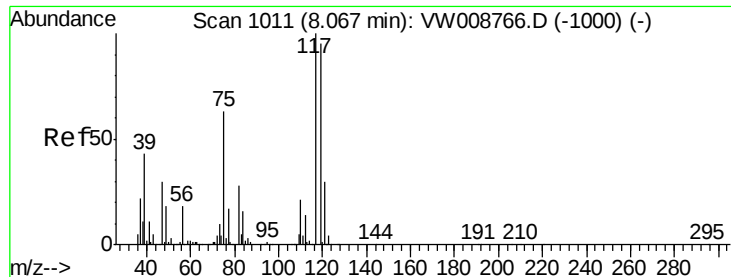


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 5.913 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

Instrument :

MSVOA\_W

ClientSampled :

SB-05

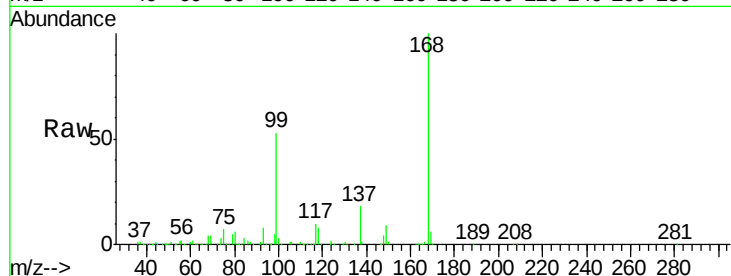
Tot Ion:117 Resp: 32769

Ion Ratio Lower Upper

117 100

119 4.6 76.1 114.1#

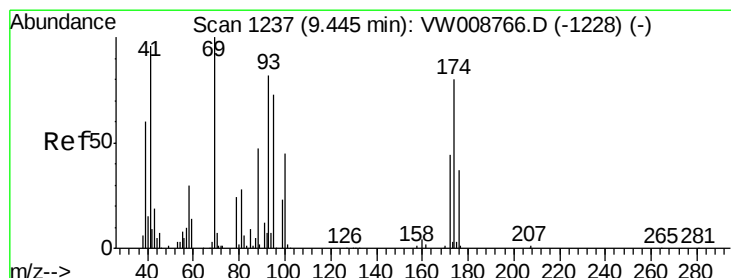
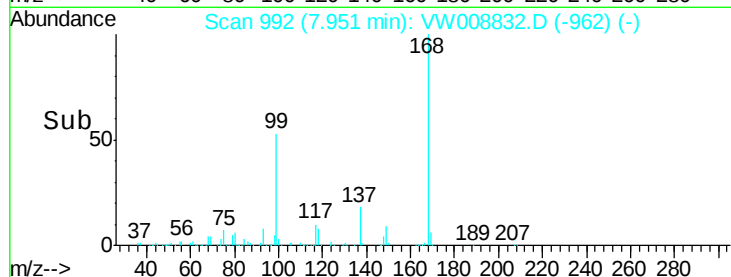
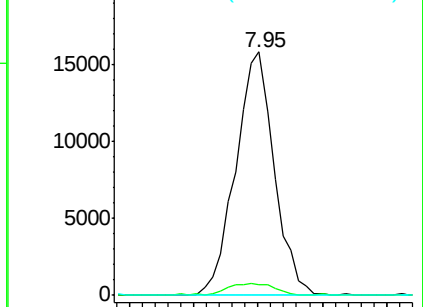
121 0.0 24.0 36.0#



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



#49

1,4-Dioxane

Concen: 1.172 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.01 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

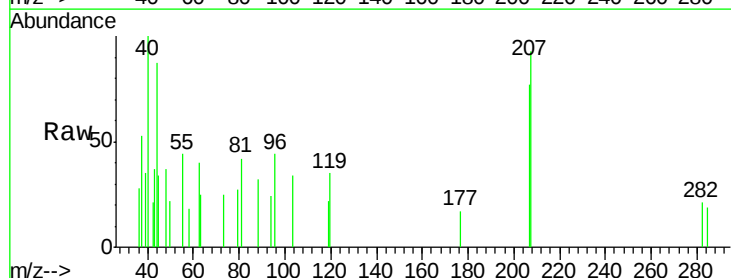
Tgt Ion: 88 Resp: 37

Ion Ratio Lower Upper

88 100

43 700.0 29.0 43.4#

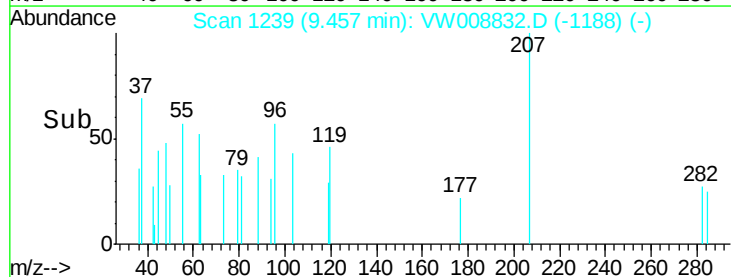
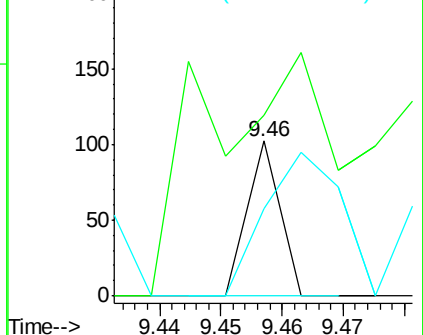
58 281.1 52.0 78.0#

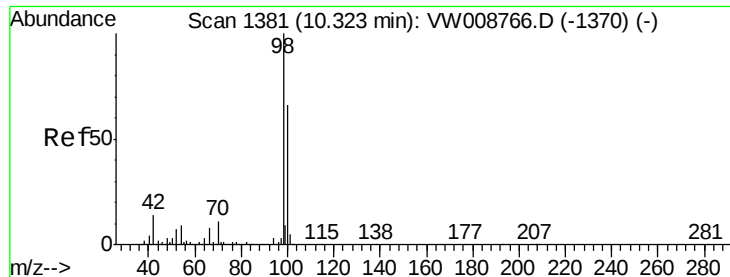


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 51.283 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

Instrument :

MSVOA\_W

ClientSampled :

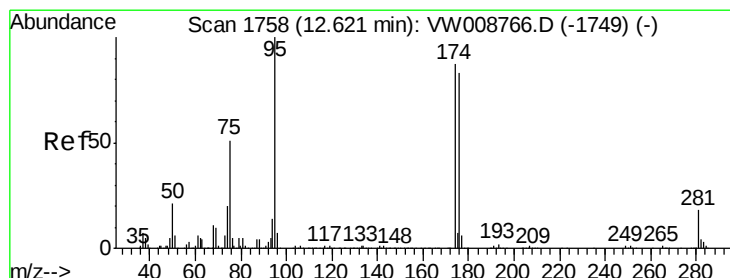
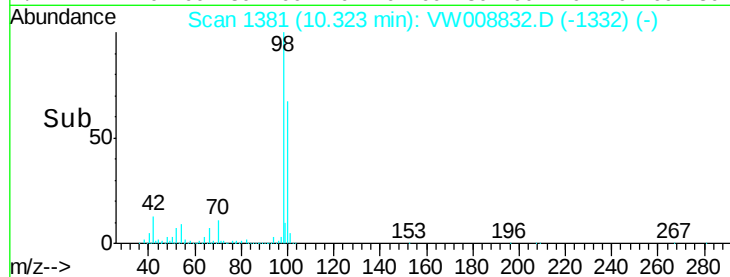
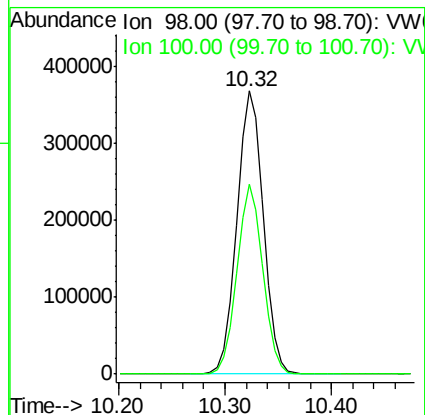
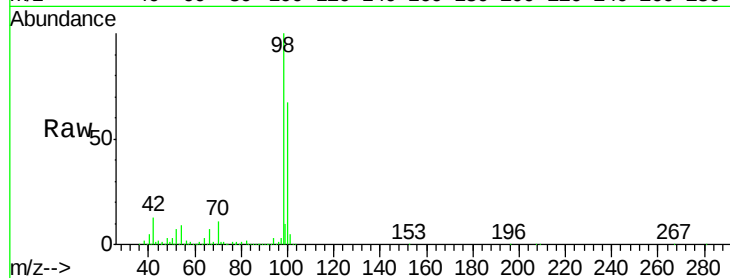
SB-05

Tot Ion: 98 Resp: 641666

Ion Ratio Lower Upper

98 100

100 65.5 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 42.623 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

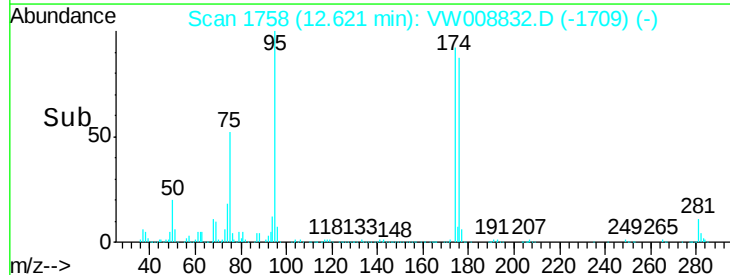
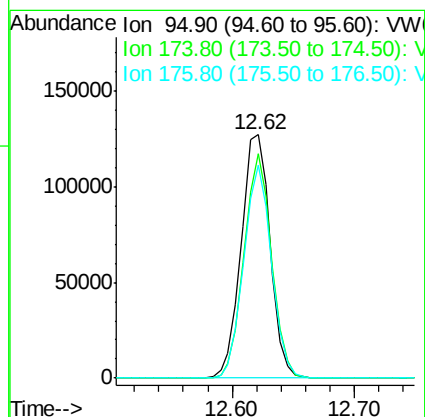
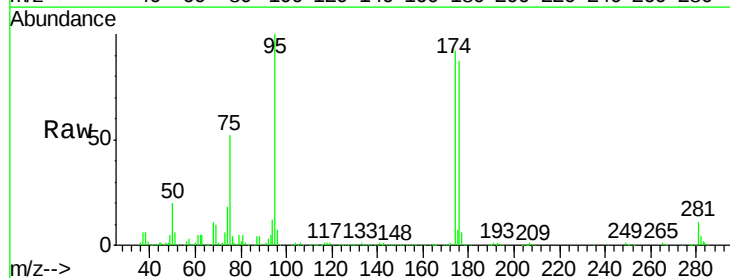
Tgt Ion: 95 Resp: 208813

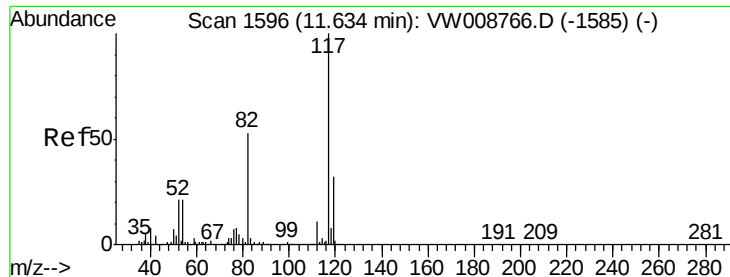
Ion Ratio Lower Upper

95 100

174 87.6 0.0 169.2

176 83.8 0.0 163.6

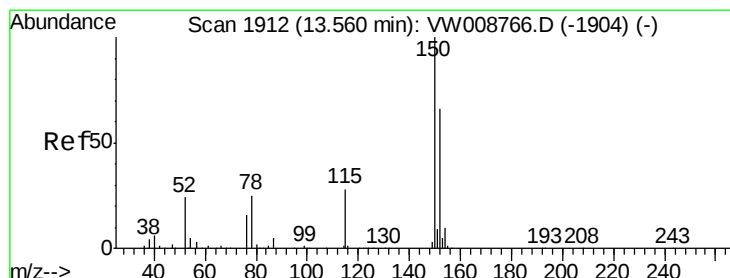
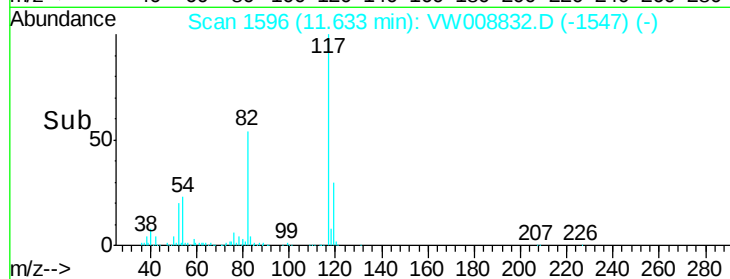
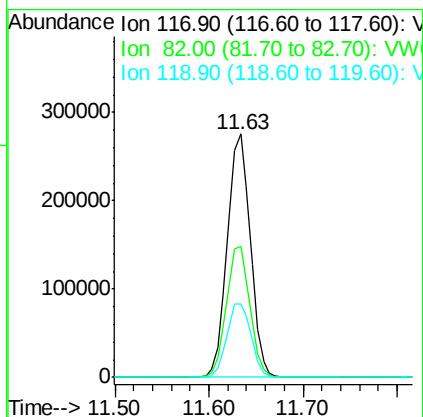
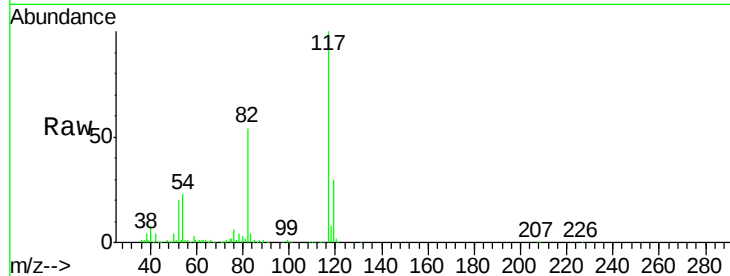




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW008832.D  
Acq: 26 Feb 2019 15:57

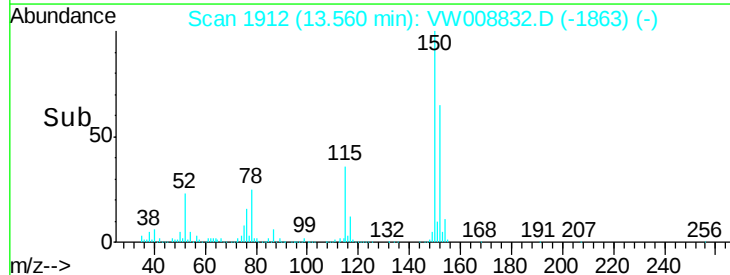
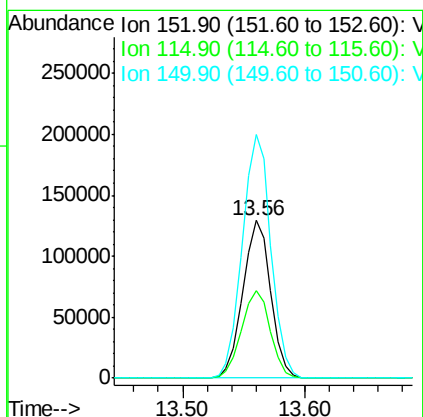
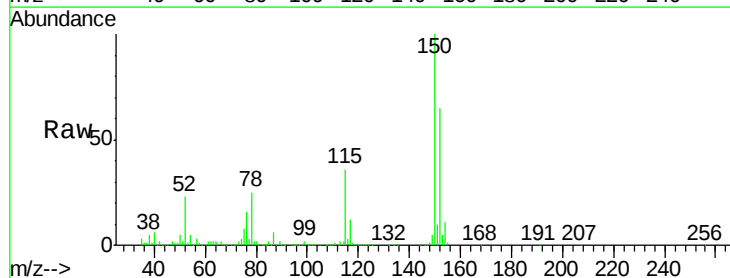
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-05

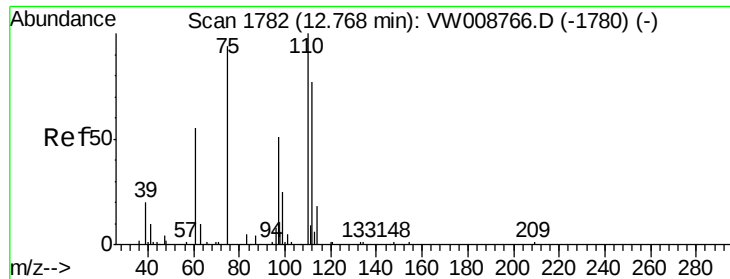
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.1  | 42.2  | 63.4  |
| 119     | 30.3  | 25.9  | 38.9  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW008832.D  
Acq: 26 Feb 2019 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.1  | 28.6  | 85.8  |
| 150     | 158.1 | 0.0   | 348.0 |





#76

1,2,3-Trichloropropane

Concen: 65.367 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

Instrument :

MSVOA\_W

ClientSampleId :

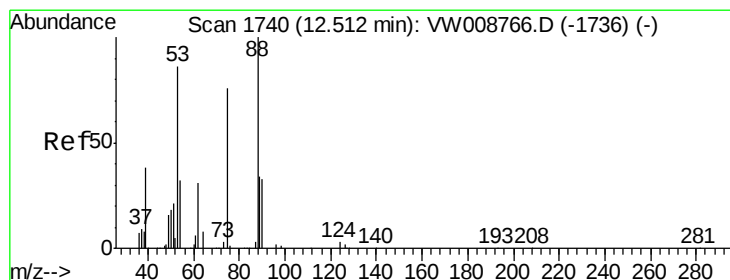
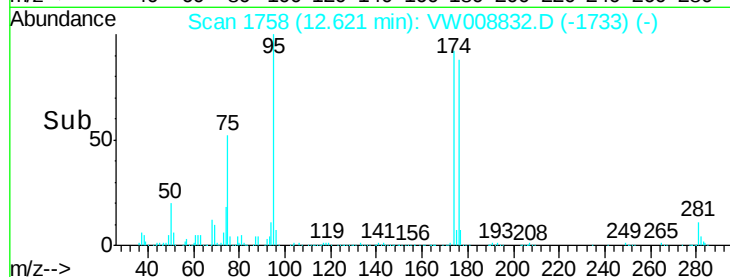
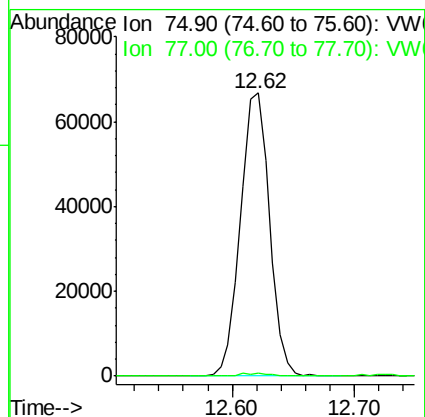
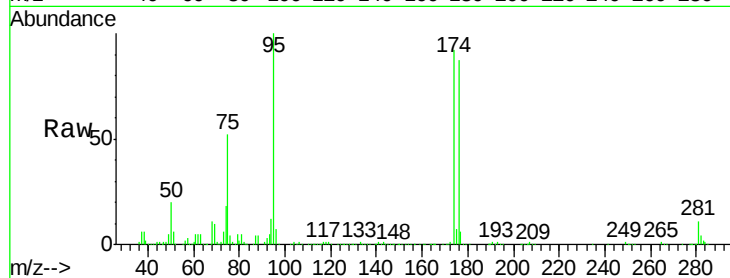
SB-05

Tot Ion: 75 Resp: 110172

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 158.911 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008832.D

Acq: 26 Feb 2019 15:57

Tgt Ion: 75 Resp: 110172

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.2 39.5 59.3#

