

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW092518\  
 Data File : VW005612.D  
 Acq On : 25 Sep 2018 15:44  
 Operator : VA/AP  
 Sample : J5066-02  
 Misc : 5.98G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EP1-Q1-G1

Quant Time: Sep 26 04:14:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 09:05:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 222426   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 347817   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 302753   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 134565   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 144011   | 54.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.92% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 115202   | 52.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.34% |          |
| 50) Toluene-d8              | 10.33 | 98   | 436677   | 49.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.06%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 139369   | 42.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.58%  |          |

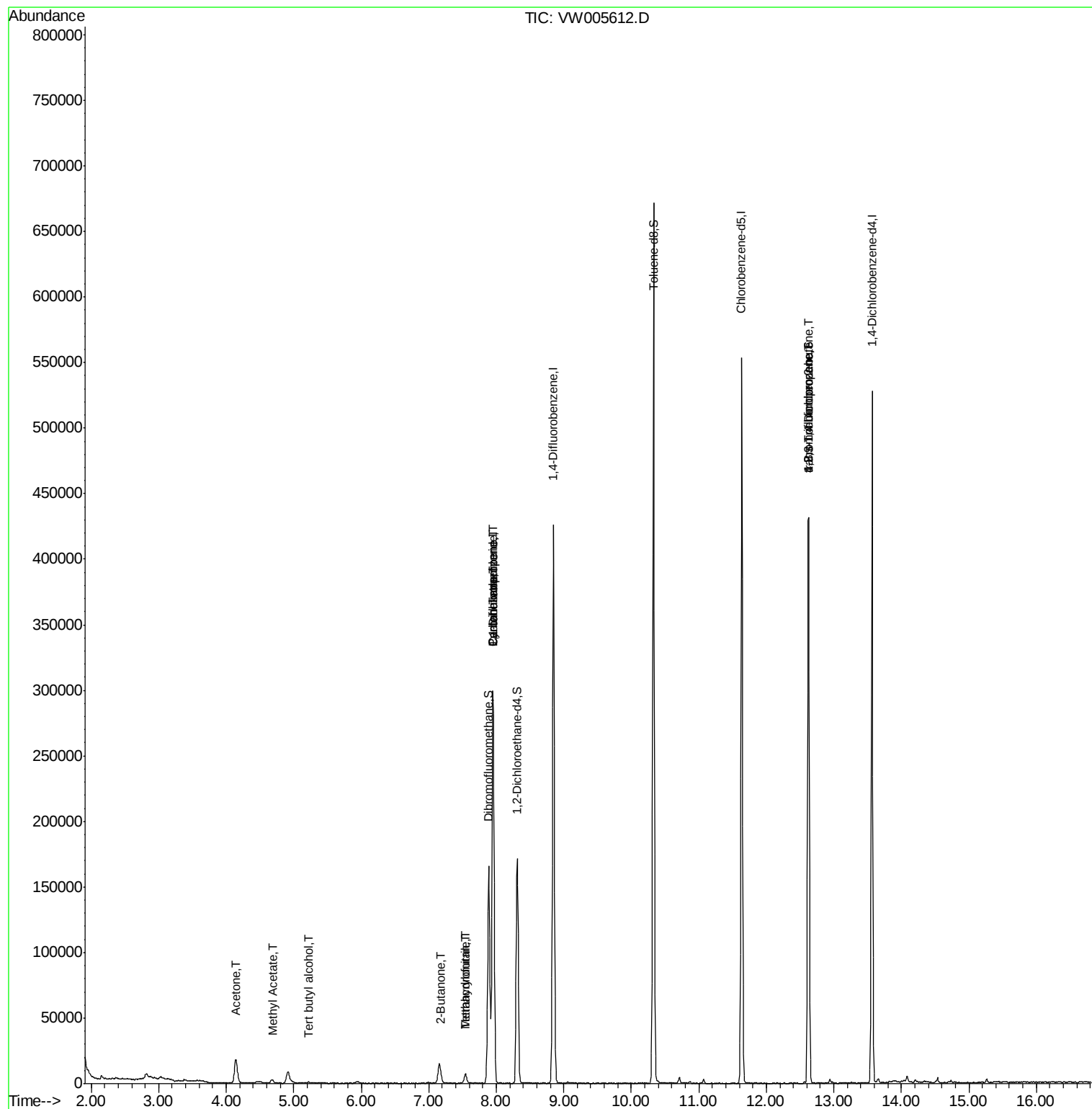
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.02  | 85   | 26       | Below Cal | #      | 41     |
| 11) Tert butyl alcohol         | 5.21  | 59   | 1708     | 10.351    | ug/l # | 76     |
| 13) Acrolein                   | 3.64  | 56   | 30       | Below Cal | #      | 13     |
| 16) Acetone                    | 4.15  | 43   | 36568    | 82.446    | ug/l   | 96     |
| 18) Methyl Acetate             | 4.68  | 43   | 5021     | 4.043     | ug/l   | 100    |
| 20) Methylene Chloride         | 4.91  | 84   | 6914     | Below Cal |        | 92     |
| 25) 2-Butanone                 | 7.18  | 43   | 1662     | 2.611     | ug/l   | 91     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 5300     | 13.330    | ug/l   | 96     |
| 31) Cyclohexane                | 7.96  | 56   | 4813     | 1.185     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16816    | 4.803     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 22364    | 5.961     | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.54  | 41   | 3733     | 4.452     | ug/l # | 51     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 73276    | 63.881    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 73276    | 143.879   | ug/l # | 7      |

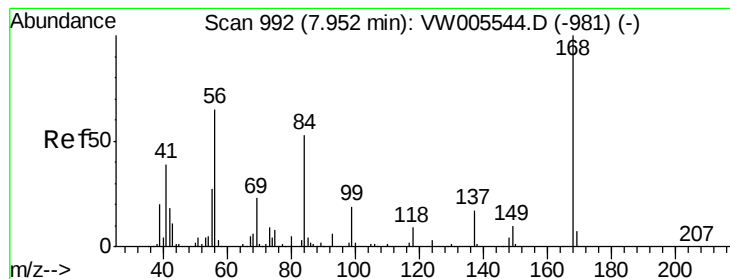
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW092518\  
Data File : VW005612.D  
Acq On : 25 Sep 2018 15:44  
Operator : VA/AP  
Sample : J5066-02  
Misc : 5.98G/5ML/MSVOA\_W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EP1-Q1-G1

Quant Time: Sep 26 04:14:19 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 21 09:05:42 2018  
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: VW005612.D

Acq: 25 Sep 2018 15:44

Instrument :

MSVOA\_W

ClientSampleId :

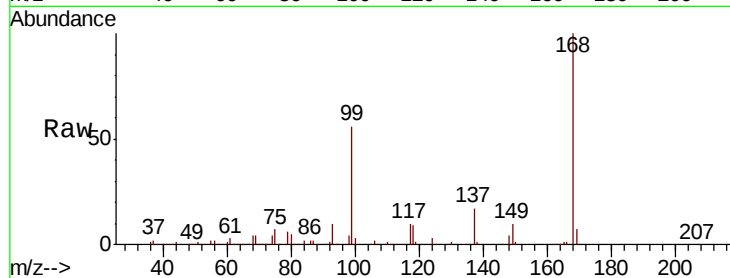
EP1-Q1-G1

Tgt Ion:168 Resp: 222426

Ion Ratio Lower Upper

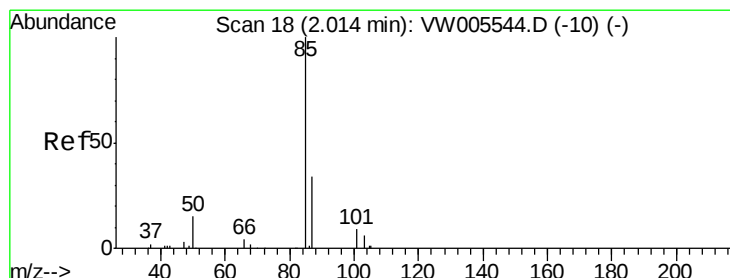
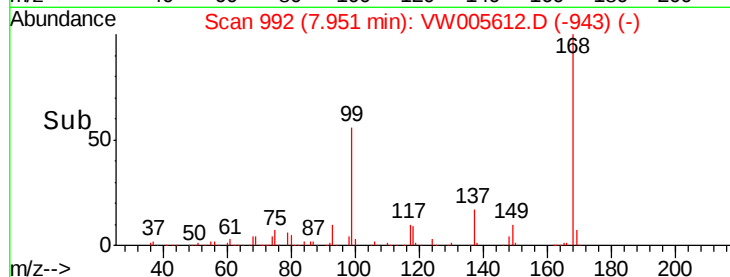
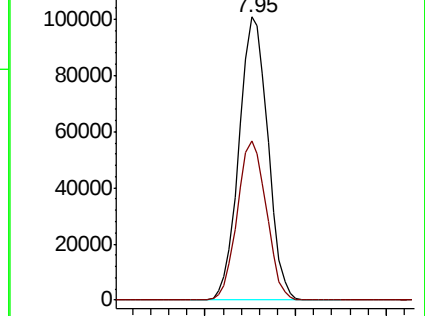
168 100

99 56.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW005612.D

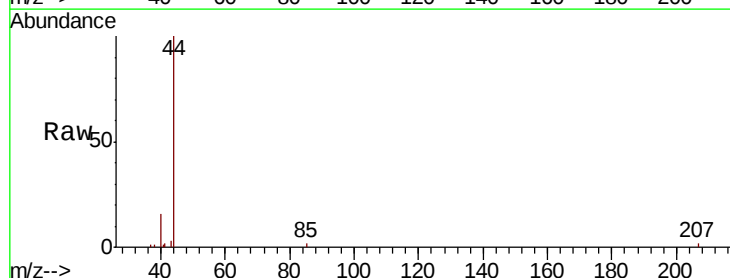
Acq: 25 Sep 2018 15:44

Tgt Ion: 85 Resp: 26

Ion Ratio Lower Upper

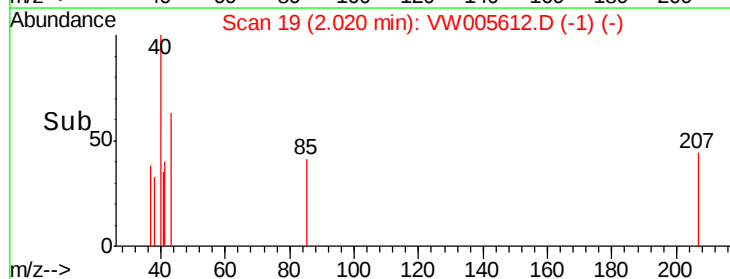
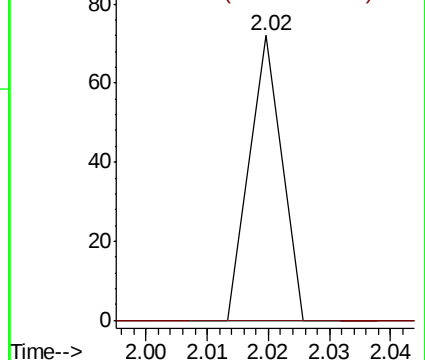
85 100

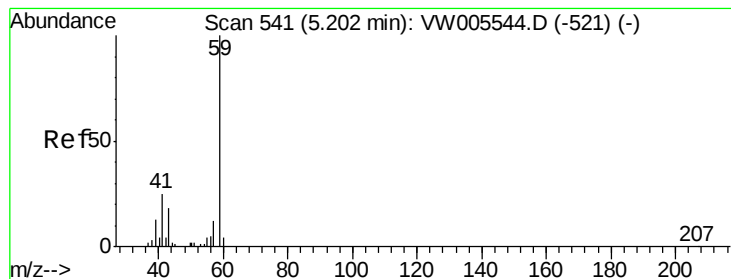
87 0.0 17.0 50.9#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#11

Tert butyl alcohol

Concen: 10.351 ug/l

RT: 5.21 min Scan# 543

Delta R.T. 0.01 min

Lab File: VW005612.D

Acq: 25 Sep 2018 15:44

Instrument :

MSVOA\_W

ClientSampleId :

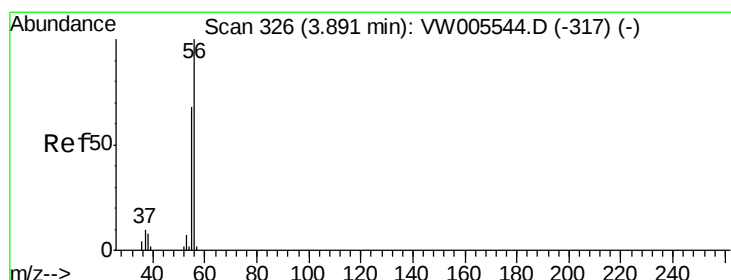
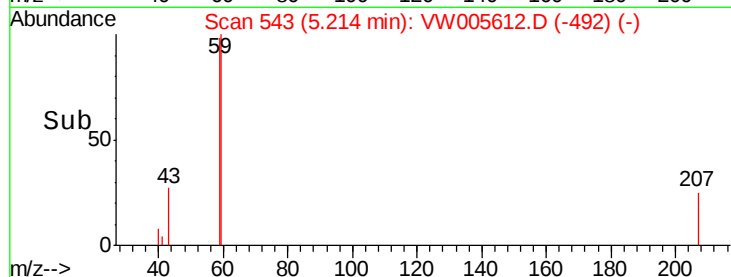
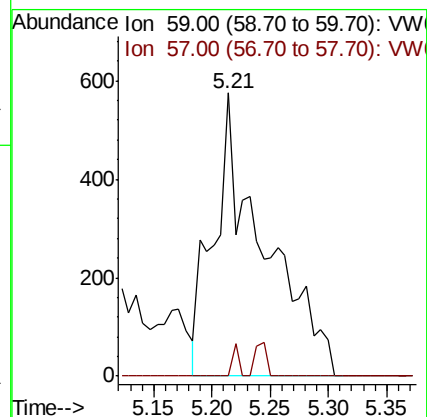
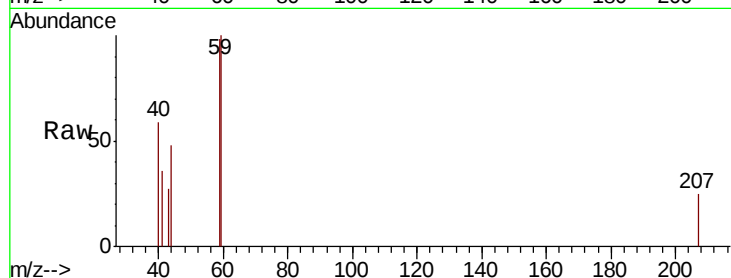
EP1-Q1-G1

Tgt Ion: 59 Resp: 1708

Ion Ratio Lower Upper

59 100

57 1.4 8.3 12.5#



#13

Acrolein

Concen: Below Cal

RT: 3.64 min Scan# 284

Delta R.T. -0.26 min

Lab File: VW005612.D

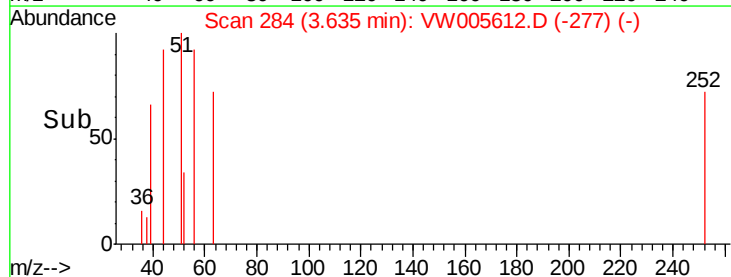
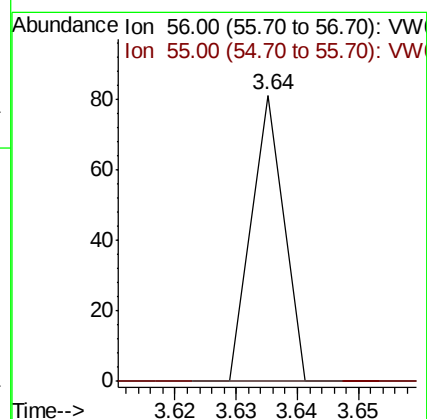
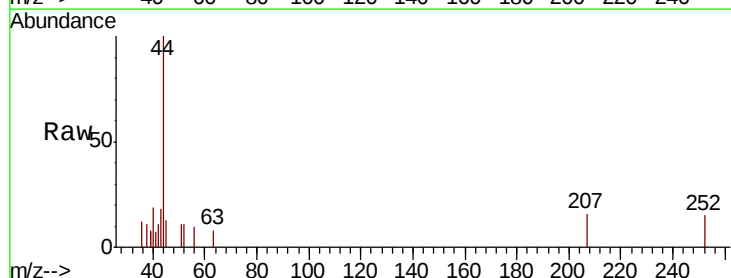
Acq: 25 Sep 2018 15:44

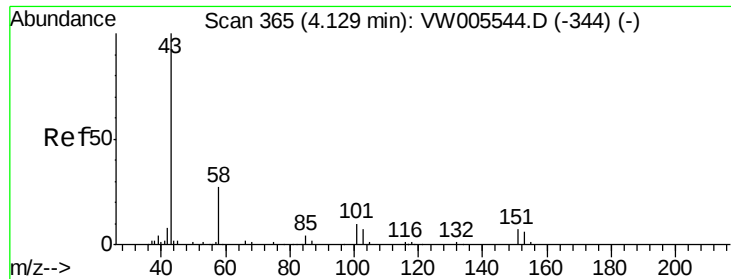
Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.8#

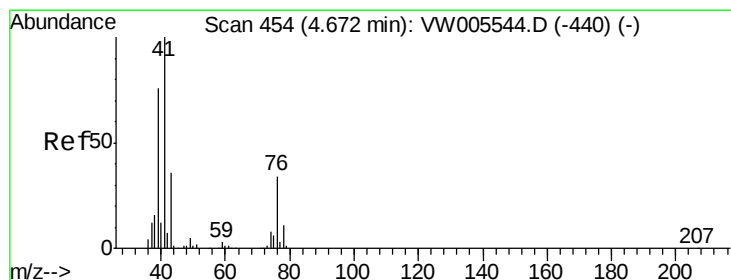
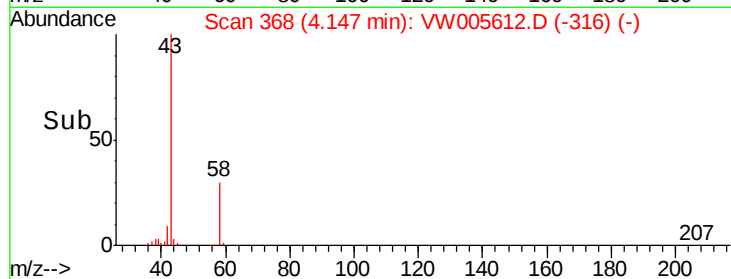
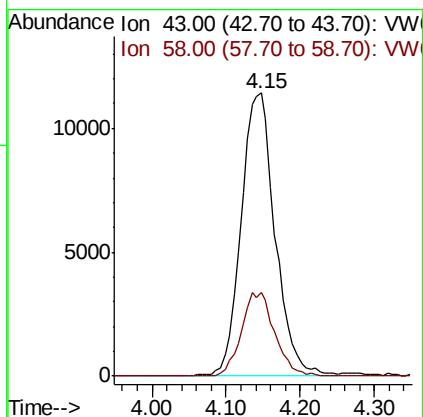
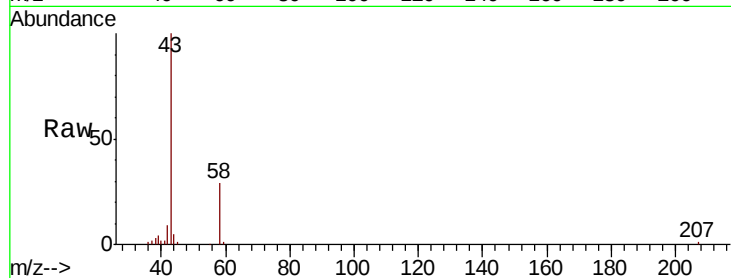




#16  
Acetone  
Concen: 82.446 ug/l  
RT: 4.15 min Scan# 368  
Delta R.T. 0.02 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

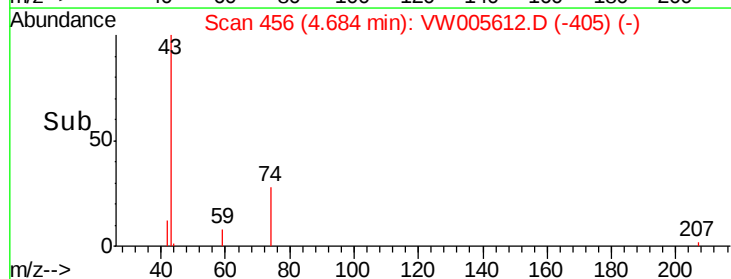
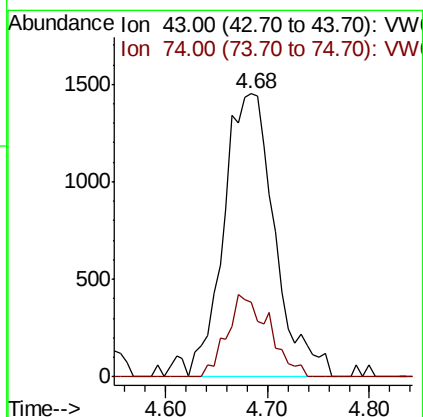
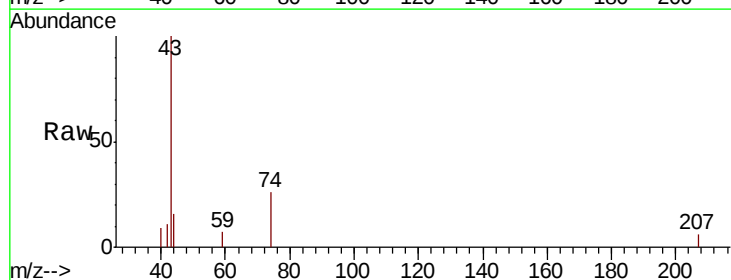
Instrument :  
MSVOA\_W  
ClientSampleId :  
EP1-Q1-G1

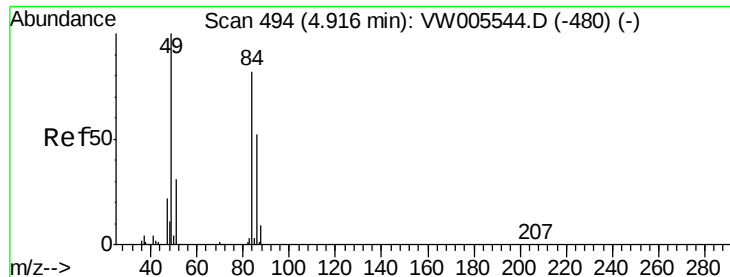
Tgt Ion: 43 Resp: 36568  
Ion Ratio Lower Upper  
43 100  
58 29.4 21.8 32.8



#18  
Methyl Acetate  
Concen: 4.043 ug/l  
RT: 4.68 min Scan# 456  
Delta R.T. 0.01 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

Tgt Ion: 43 Resp: 5021  
Ion Ratio Lower Upper  
43 100  
74 24.1 19.2 28.8

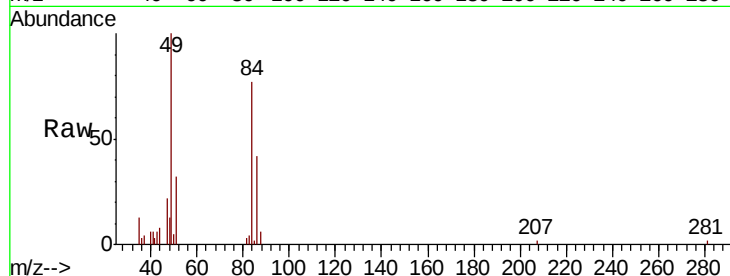




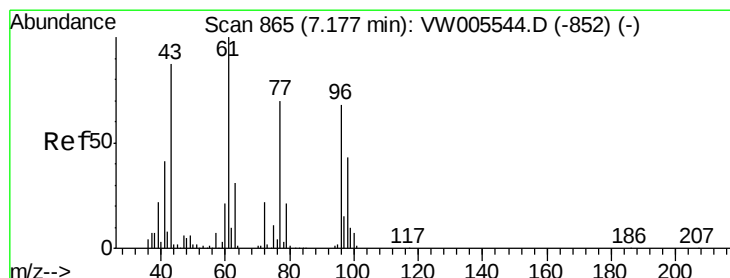
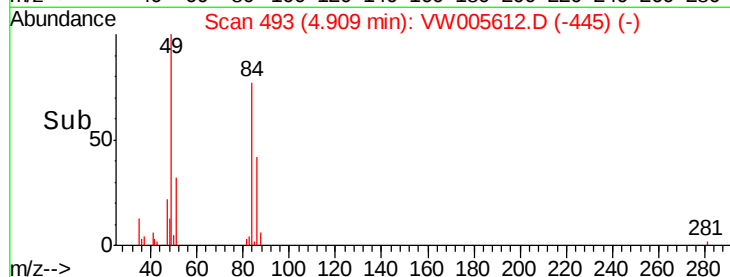
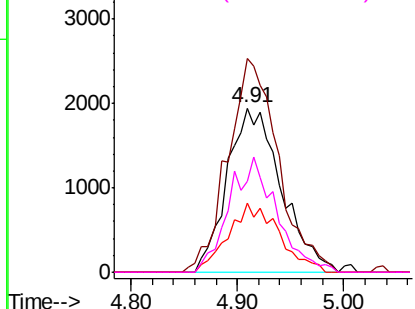
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

Instrument :  
MSVOA\_W  
ClientSampleId :  
EP1-Q1-G1

Tgt Ion: 84 Resp: 6914  
Ion Ratio Lower Upper  
84 100  
49 129.9 97.0 145.6  
51 42.0 30.2 45.2  
86 55.1 50.2 75.4

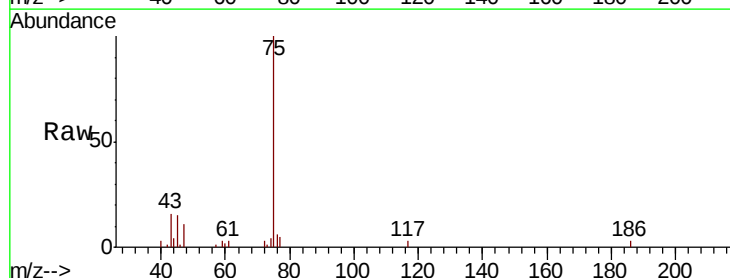


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

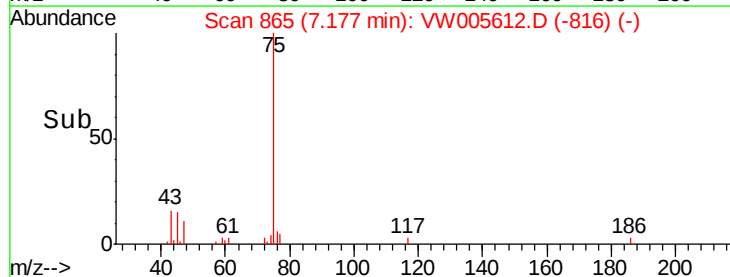
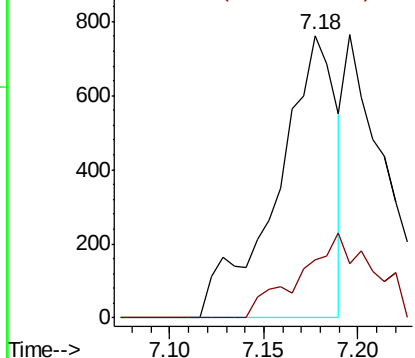


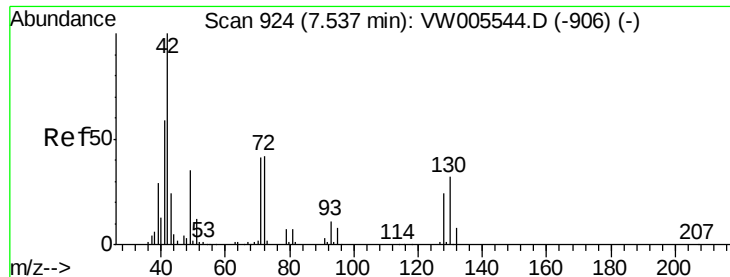
#25  
2-Butanone  
Concen: 2.611 ug/l  
RT: 7.18 min Scan# 865  
Delta R.T. -0.00 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

Tgt Ion: 43 Resp: 1662  
Ion Ratio Lower Upper  
43 100  
72 20.6 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW

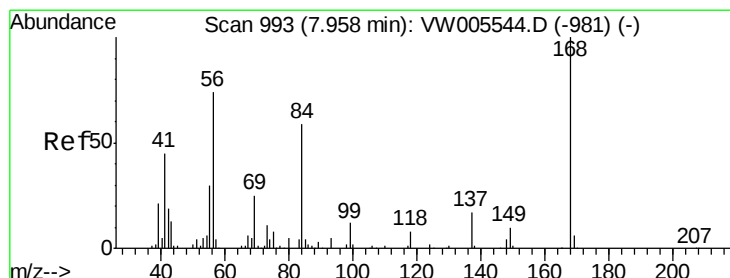
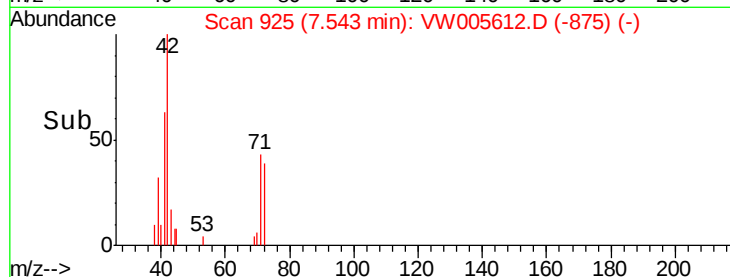
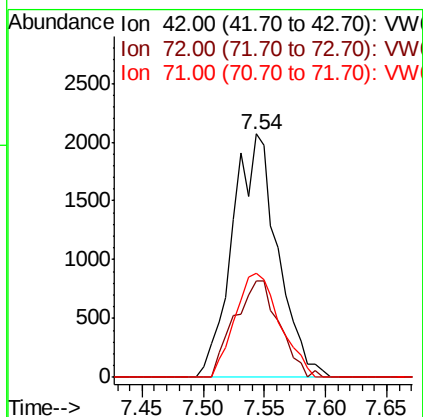
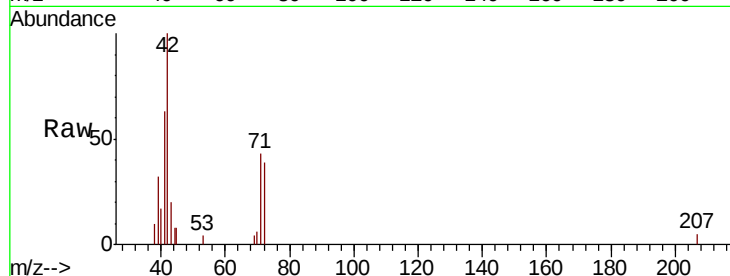




#29  
Tetrahydrofuran  
Concen: 13.330 ug/l  
RT: 7.54 min Scan# 925  
Delta R.T. 0.01 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

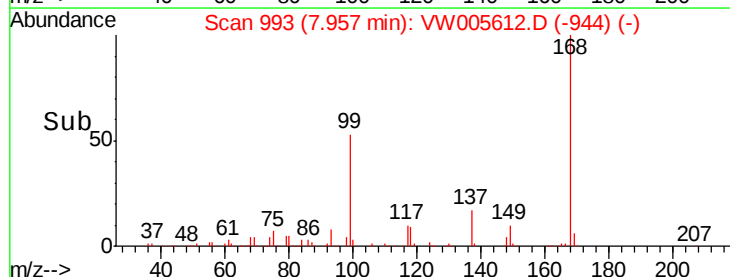
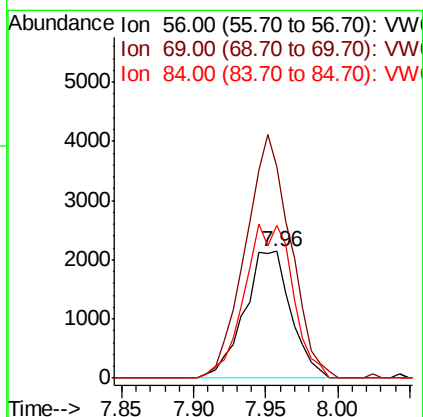
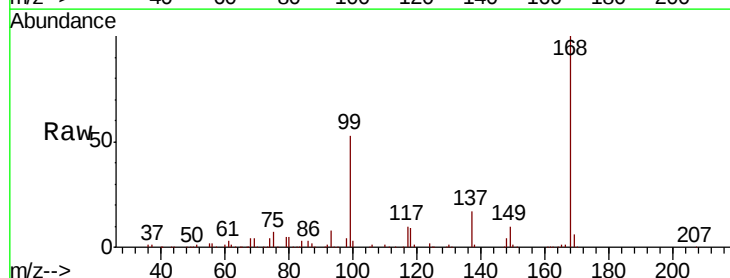
Instrument :  
MSVOA\_W  
ClientSampled :  
EP1-Q1-G1

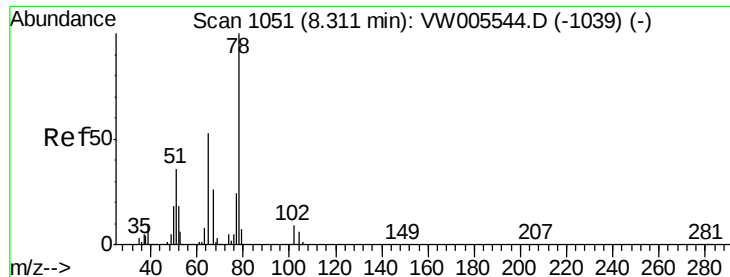
Tgt Ion: 42 Resp: 5300  
Ion Ratio Lower Upper  
42 100  
72 39.5 33.6 50.4  
71 42.5 31.8 47.6



#31  
Cyclohexane  
Concen: 1.185 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

Tgt Ion: 56 Resp: 4813  
Ion Ratio Lower Upper  
56 100  
69 166.6 27.0 40.4#  
84 120.7 64.2 96.4#

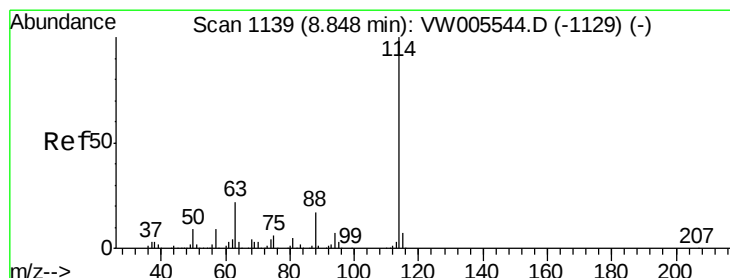
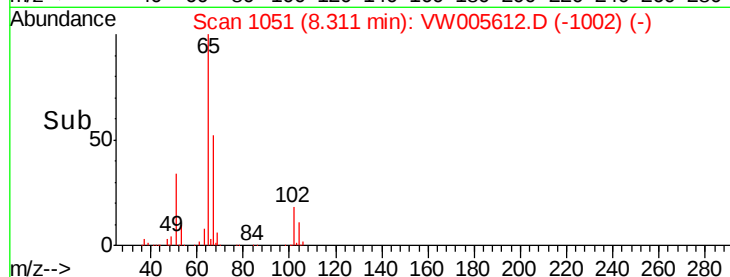
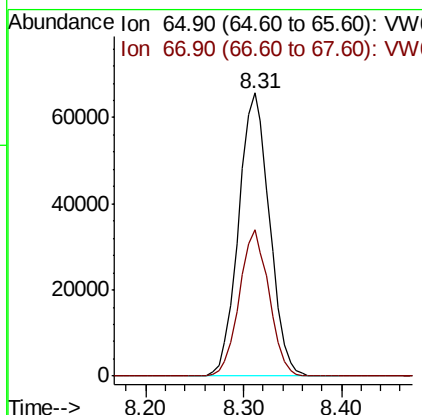
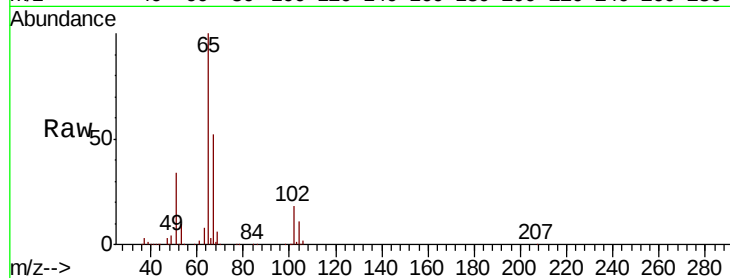




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.959 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VW005612.D  
 Acq: 25 Sep 2018 15:44

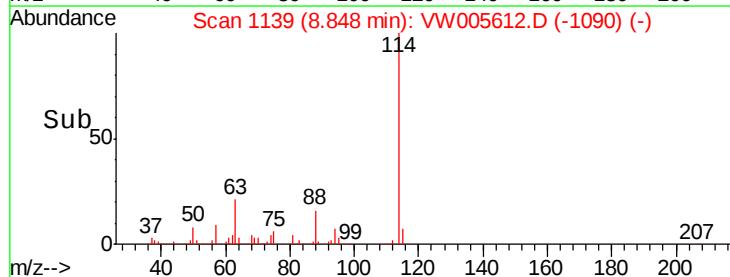
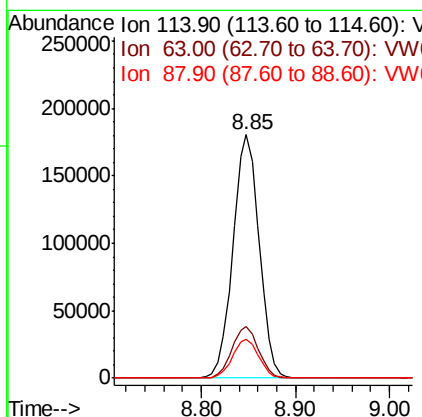
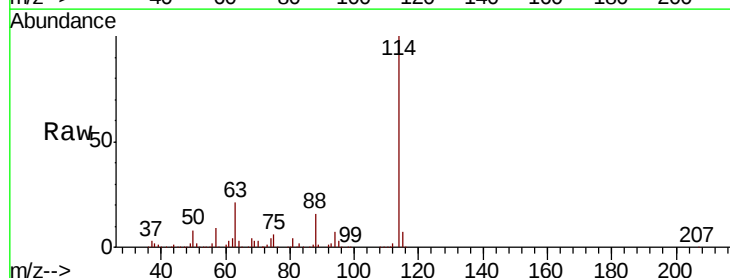
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EP1-Q1-G1

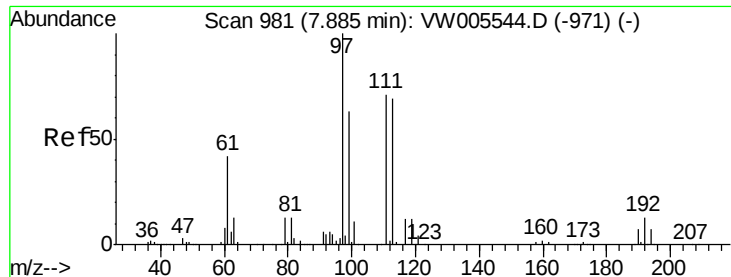
Tgt Ion: 65 Resp: 144011  
 Ion Ratio Lower Upper  
 65 100  
 67 49.7 0.0 100.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW005612.D  
 Acq: 25 Sep 2018 15:44

Tgt Ion: 114 Resp: 347817  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 43.0  
 88 16.0 0.0 33.0

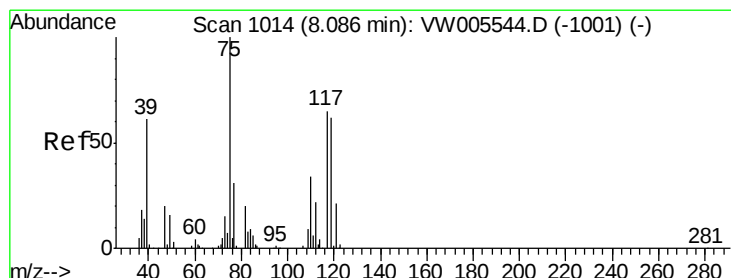
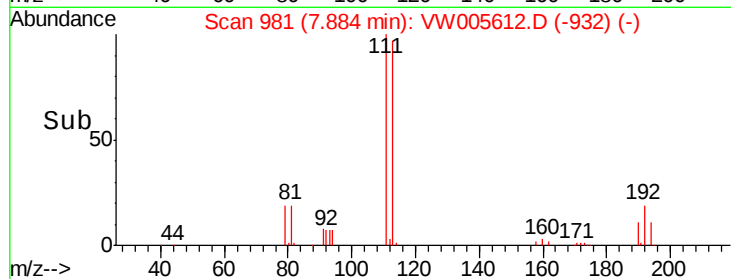
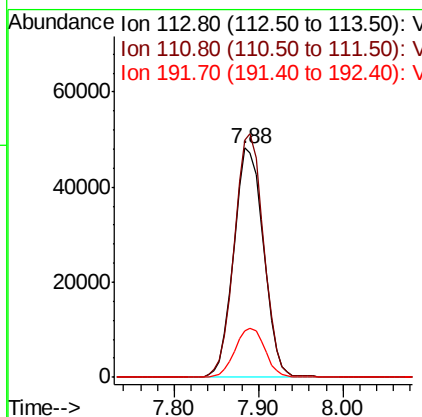
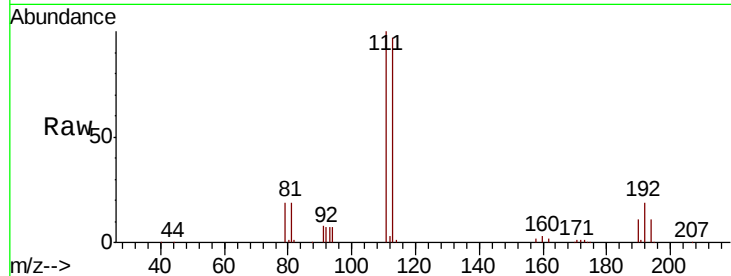




#35  
 Dibromofluoromethane  
 Concen: 52.669 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW005612.D  
 Acq: 25 Sep 2018 15:44

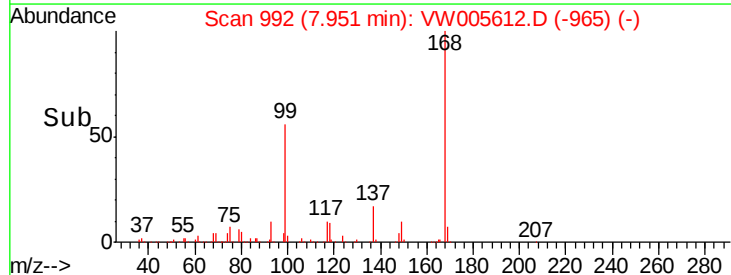
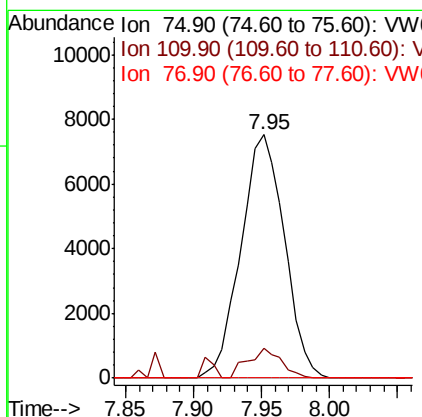
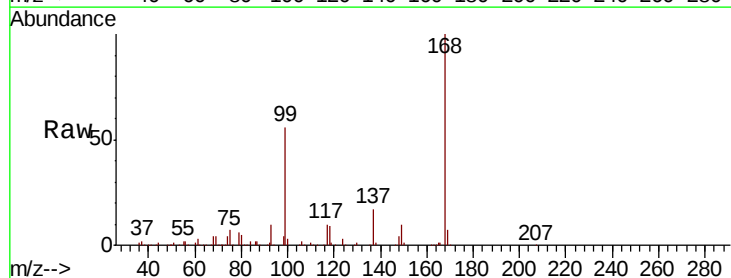
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EP1-Q1-G1

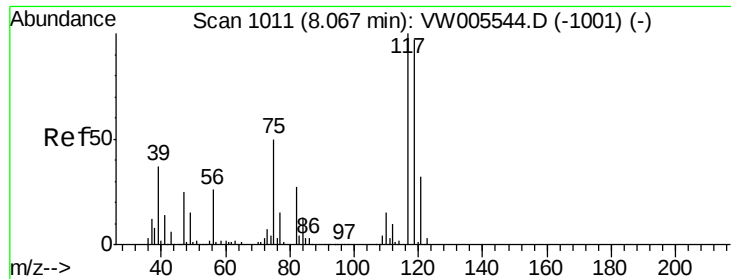
Tgt Ion:113 Resp: 115202  
 Ion Ratio Lower Upper  
 113 100  
 111 103.9 82.6 123.8  
 192 21.5 17.0 25.4



#36  
 1,1-Dichloropropene  
 Concen: 4.803 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW005612.D  
 Acq: 25 Sep 2018 15:44

Tgt Ion: 75 Resp: 16816  
 Ion Ratio Lower Upper  
 75 100  
 110 9.5 17.0 50.9#  
 77 0.0 24.8 37.2#

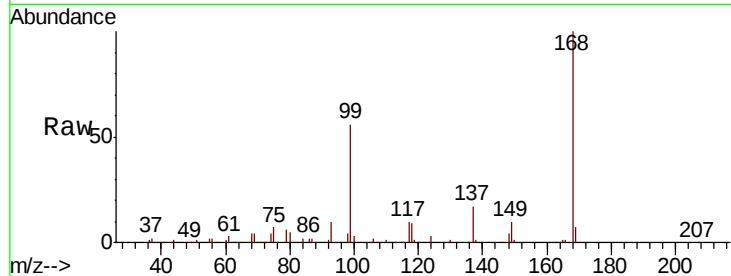




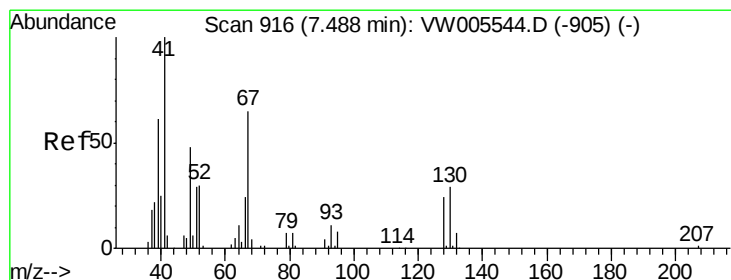
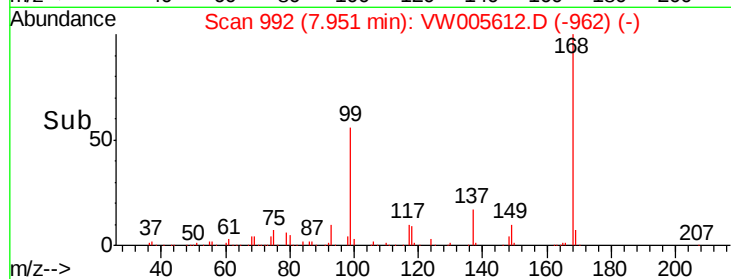
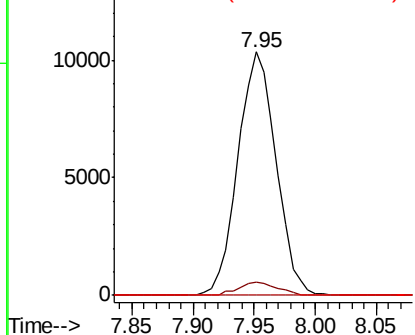
#38  
Carbon Tetrachloride  
Concen: 5.961 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

Instrument :  
MSVOA\_W  
ClientSampled :  
EP1-Q1-G1

Tgt Ion: 117 Resp: 22364  
Ion Ratio Lower Upper  
117 100  
119 5.4 77.6 116.4#  
121 0.0 25.7 38.5#

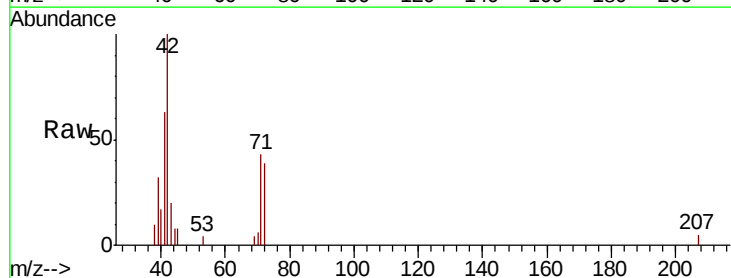


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

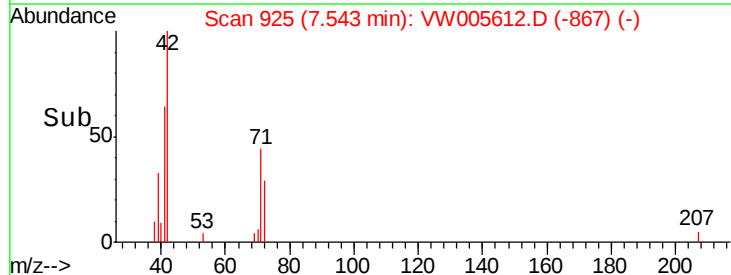
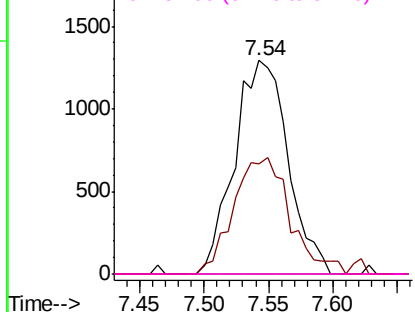


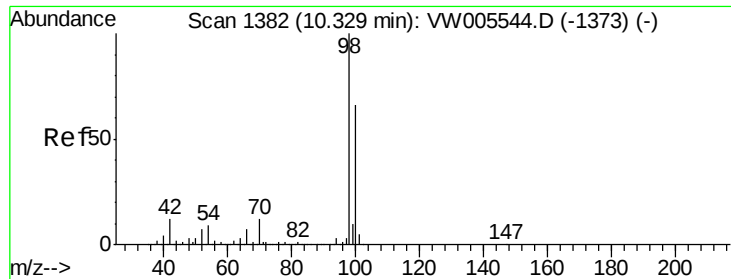
#41  
Methacrylonitrile  
Concen: 4.452 ug/l  
RT: 7.54 min Scan# 925  
Delta R.T. 0.05 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

Tgt Ion: 41 Resp: 3733  
Ion Ratio Lower Upper  
41 100  
39 57.4 45.4 68.2  
67 0.0 55.2 82.8#  
52 0.0 25.3 37.9#



Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW





#50

Toluene-d8

Concen: 49.031 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005612.D

Acq: 25 Sep 2018 15:44

Instrument :

MSVOA\_W

ClientSampled :

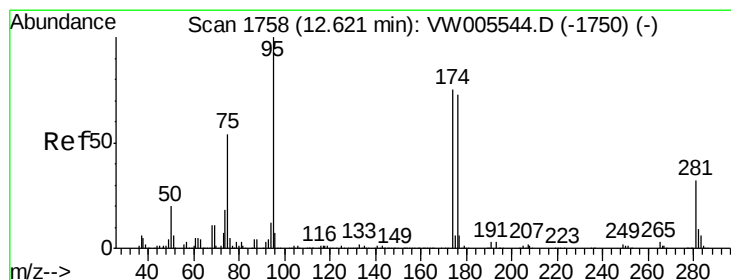
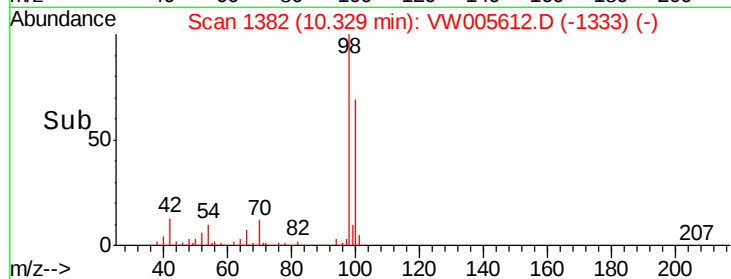
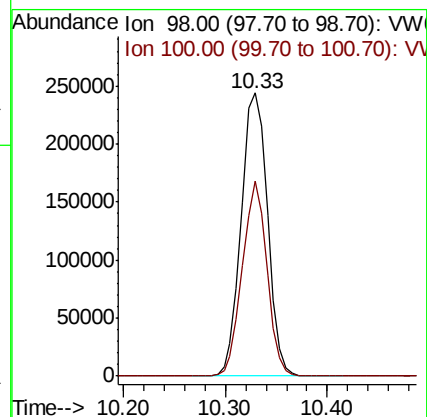
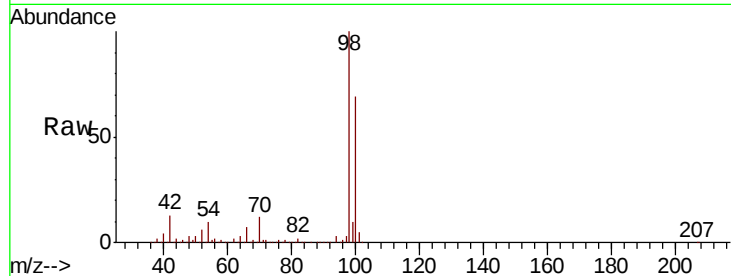
EP1-Q1-G1

Tgt Ion: 98 Resp: 436677

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 42.291 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW005612.D

Acq: 25 Sep 2018 15:44

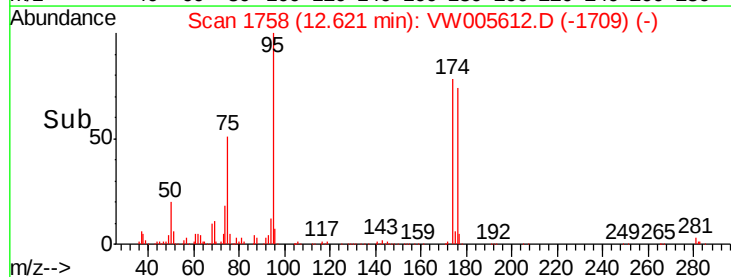
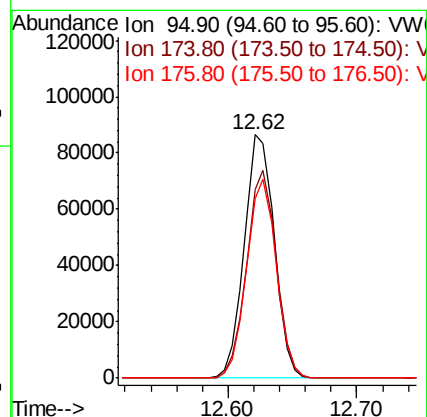
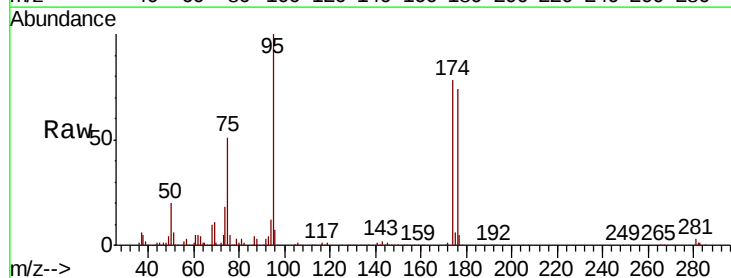
Tgt Ion: 95 Resp: 139369

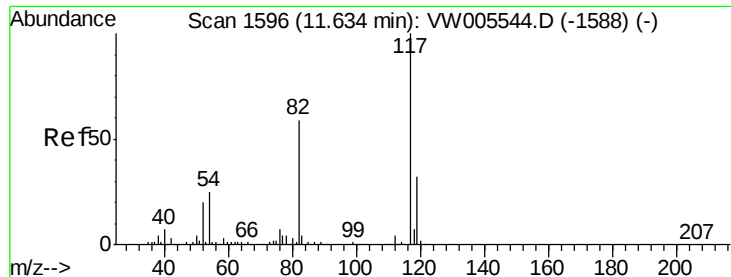
Ion Ratio Lower Upper

95 100

174 84.0 0.0 163.8

176 80.6 0.0 158.0

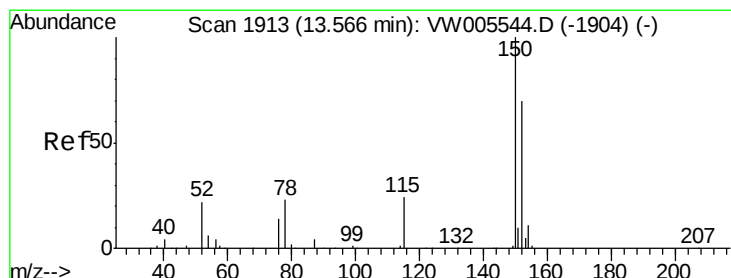
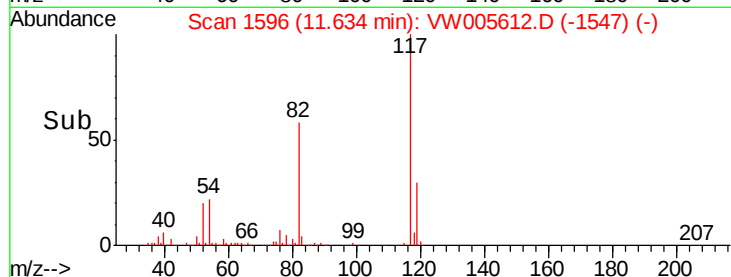
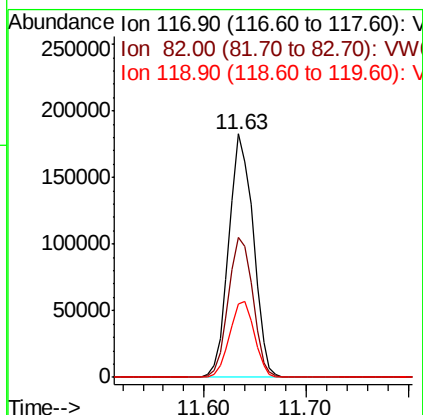
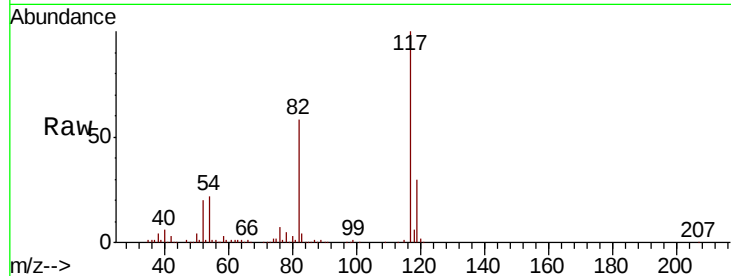




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

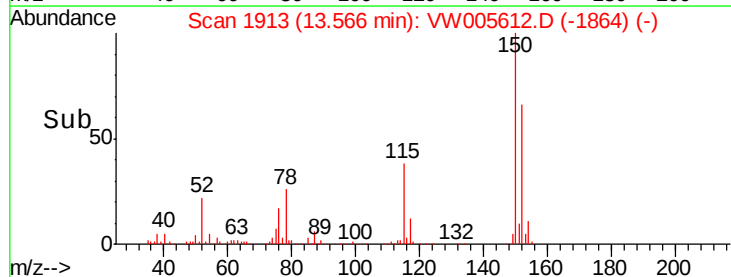
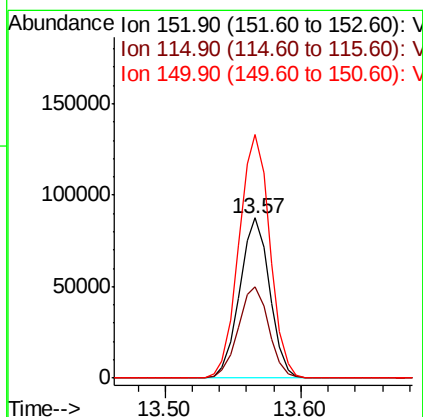
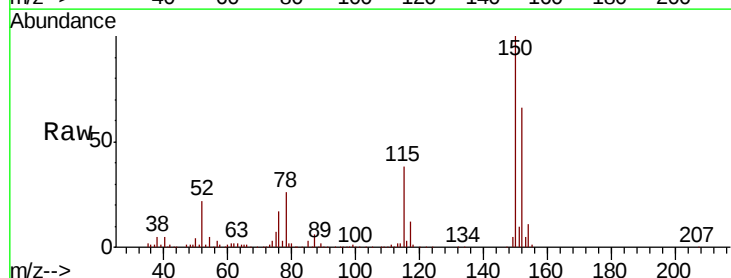
Instrument :  
MSVOA\_W  
ClientSampleId :  
EP1-Q1-G1

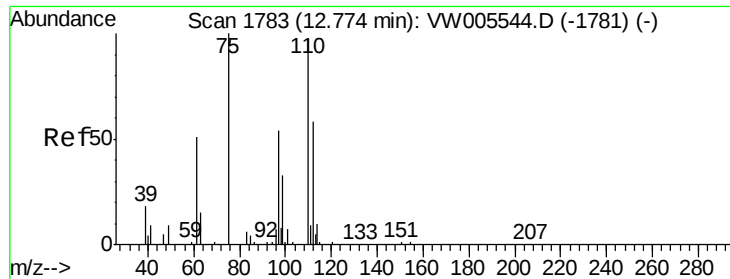
Tgt Ion:117 Resp: 302753  
Ion Ratio Lower Upper  
117 100  
82 57.6 46.9 70.3  
119 30.3 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. -0.00 min  
Lab File: VW005612.D  
Acq: 25 Sep 2018 15:44

Tgt Ion:152 Resp: 134565  
Ion Ratio Lower Upper  
152 100  
115 58.5 30.0 90.0  
150 157.1 0.0 348.6





#76

1,2,3-Trichloropropane

Concen: 63.881 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. -0.15 min

Lab File: VW005612.D

Acq: 25 Sep 2018 15:44

Instrument :

MSVOA\_W

ClientSampleId :

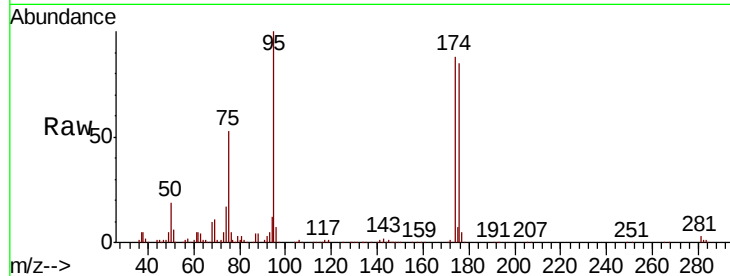
EP1-Q1-G1

Tgt Ion: 75 Resp: 73276

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.63

50000

40000

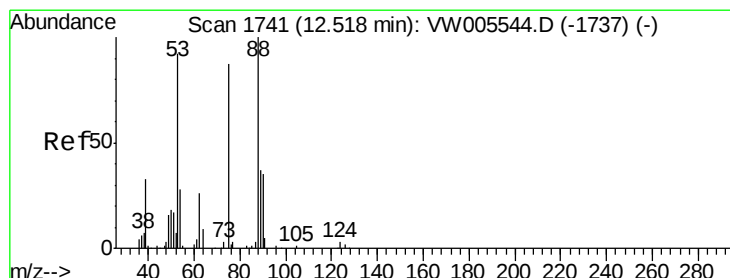
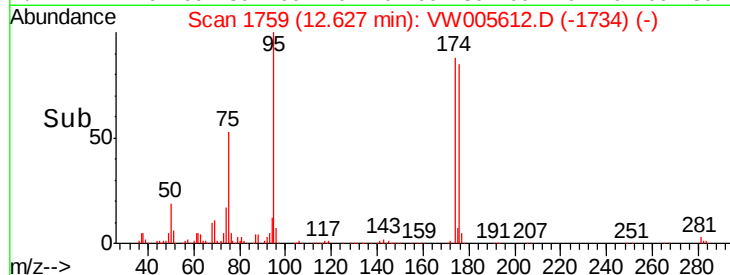
30000

20000

10000

0

Time--> 12.50 12.60 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 143.879 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.11 min

Lab File: VW005612.D

Acq: 25 Sep 2018 15:44

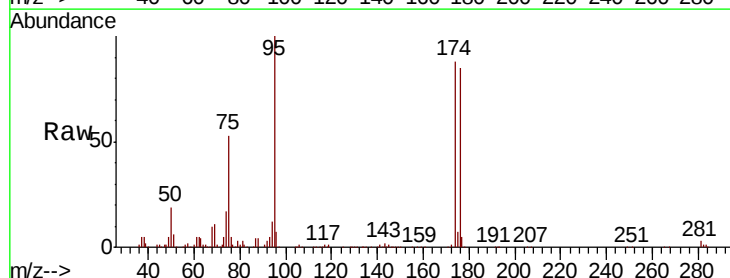
Tgt Ion: 75 Resp: 73276

Ion Ratio Lower Upper

75 100

53 0.1 85.8 128.6#

89 0.0 37.3 55.9#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

60000

50000

40000

30000

20000

10000

0

Time--> 12.50 12.60 12.70

