

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081018\  
 Data File : VW004547.D  
 Acq On : 09 Aug 2018 00:10  
 Operator : SY/AP  
 Sample : J4313-15RE  
 Misc : 4.39G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-12

Quant Time: Aug 09 05:17:21 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 08:22:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 554914   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 965278   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 853828   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 337851   | 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   | 359588   | 58.54 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 117.08% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 325637   | 50.59 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.18% |          |
| 50) Toluene-d8              | 10.33 | 98   | 1036308  | 42.23 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 84.46%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 296747   | 33.57 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 67.14%  |          |

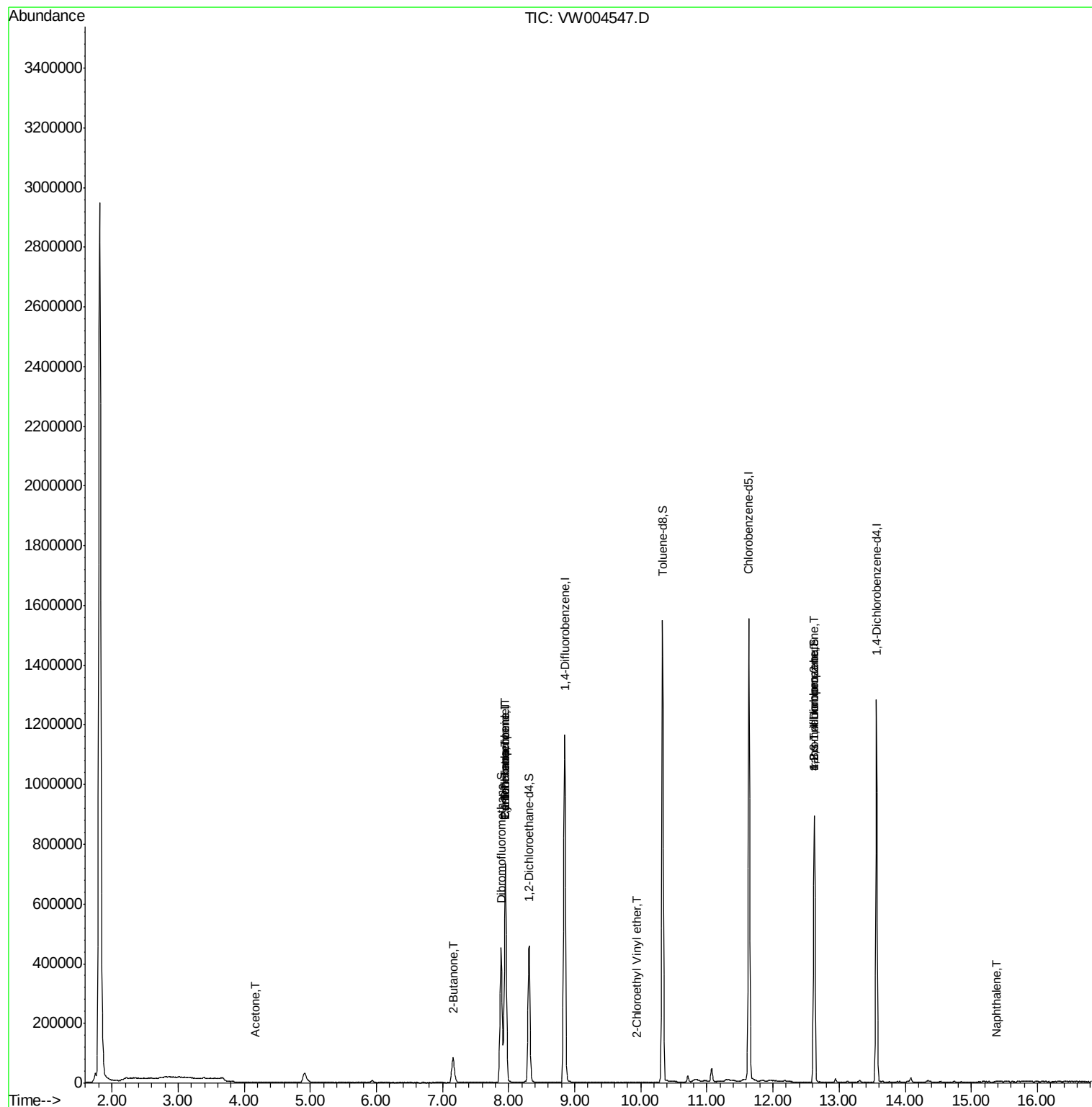
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 4.16  | 43   | 2444     | 1.593     | ug/l   | 89     |
| 20) Methylene Chloride         | 4.92  | 84   | 31924    | Below Cal |        | 92     |
| 25) 2-Butanone                 | 7.16  | 43   | 4281     | 1.735     | ug/l # | 89     |
| 31) Cyclohexane                | 7.96  | 56   | 11833    | 1.028     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 44883    | 4.318     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 53655    | 5.737     | ug/l # | 17     |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 146      | 8.984     | ug/l # | 48     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 144569   | 41.353    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 144569   | 98.993    | ug/l # | 12     |
| 95) Naphthalene                | 15.38 | 128  | 926      | 2.973     | ug/l # | 80     |

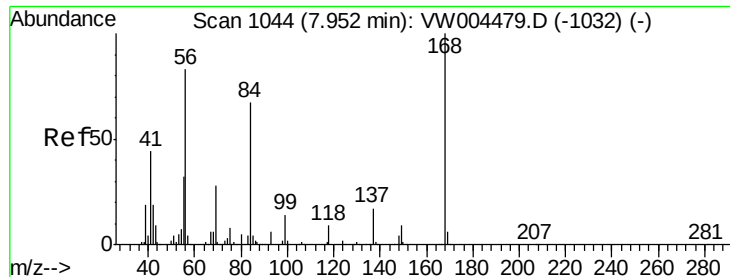
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW081018\  
Data File : VW004547.D  
Acq On : 09 Aug 2018 00:10  
Operator : SY/AP  
Sample : J4313-15RE  
Misc : 4.39G/5ML/MSVOA\_W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C-12

Quant Time: Aug 09 05:17:21 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 08:22:01 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004547.D

Acq: 09 Aug 2018 00:10

Instrument :

MSVOA\_W

ClientSampled :

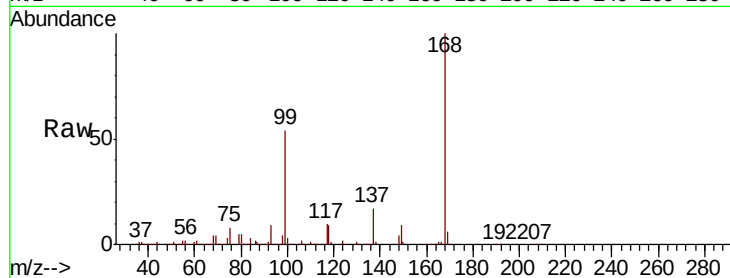
C-12

Tgt Ion:168 Resp: 554914

Ion Ratio Lower Upper

168 100

99 53.6 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

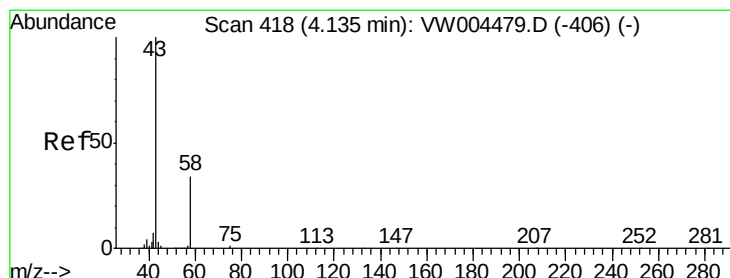
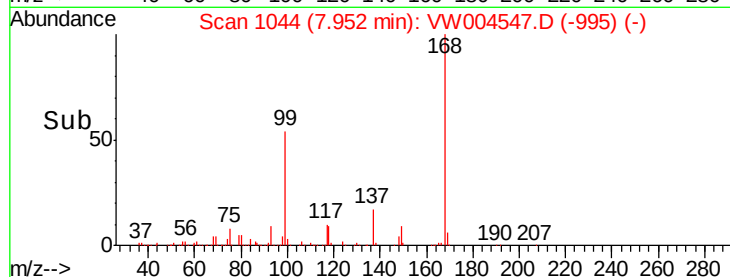
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 1.593 ug/l

RT: 4.16 min Scan# 422

Delta R.T. 0.02 min

Lab File: VW004547.D

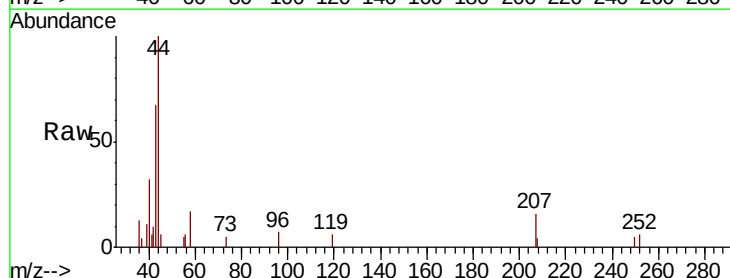
Acq: 09 Aug 2018 00:10

Tgt Ion: 43 Resp: 2444

Ion Ratio Lower Upper

43 100

58 27.1 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.16

1000

800

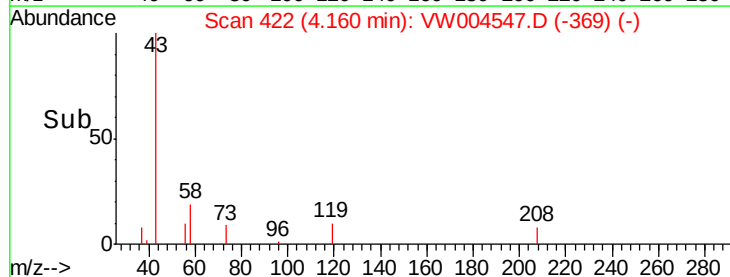
600

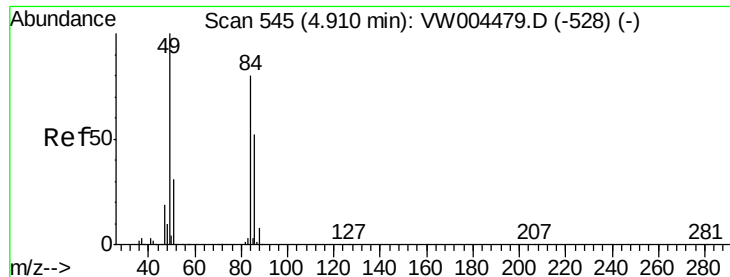
400

200

0

Time-->

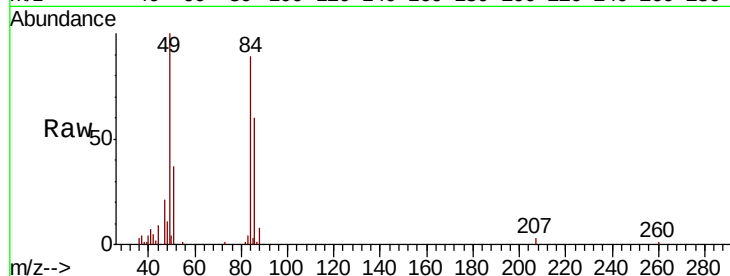




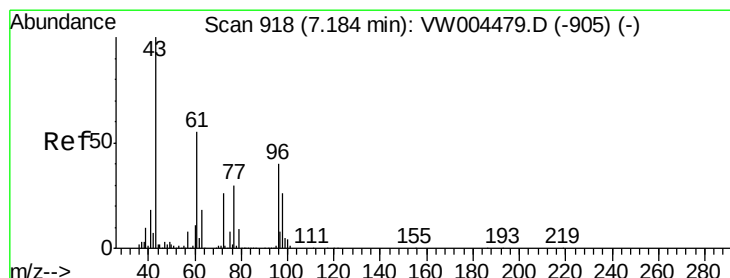
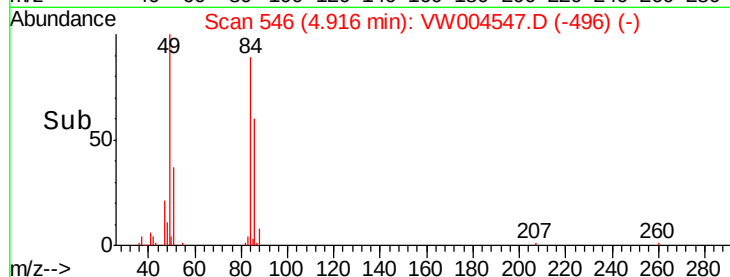
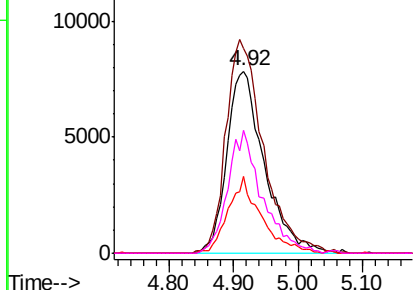
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 546  
Delta R.T. 0.01 min  
Lab File: VW004547.D  
Acq: 09 Aug 2018 00:10

Instrument :  
MSVOA\_W  
ClientSampled :  
C-12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 31924 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 112.5 | 99.6  | 149.4 |
| 51       | 42.0  | 31.0  | 46.4  |
| 86       | 67.3  | 51.5  | 77.3  |

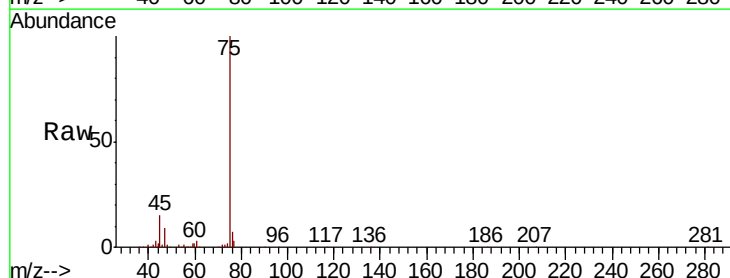


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

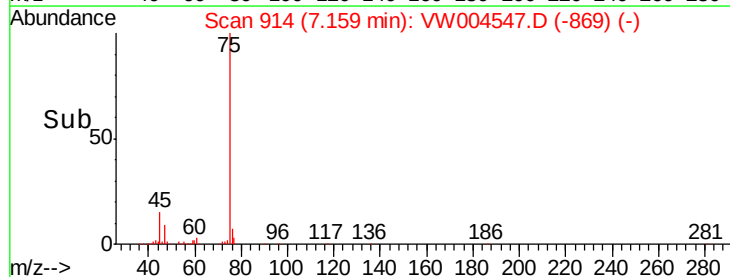
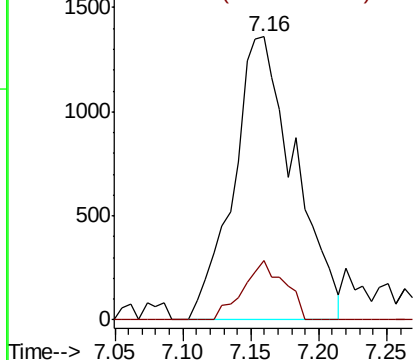


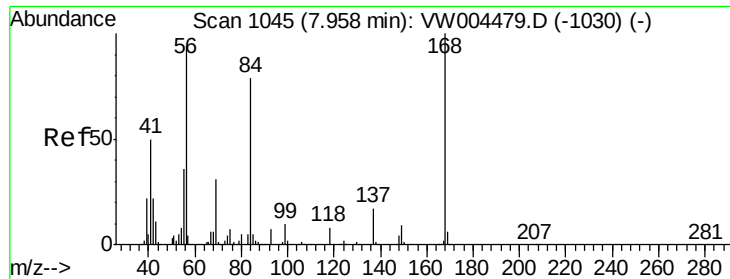
#25  
2-Butanone  
Concen: 1.735 ug/l  
RT: 7.16 min Scan# 914  
Delta R.T. -0.02 min  
Lab File: VW004547.D  
Acq: 09 Aug 2018 00:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4281  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 20.8  | 21.0  | 31.6# |



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

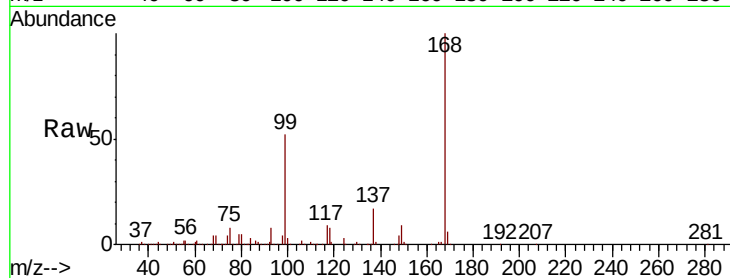




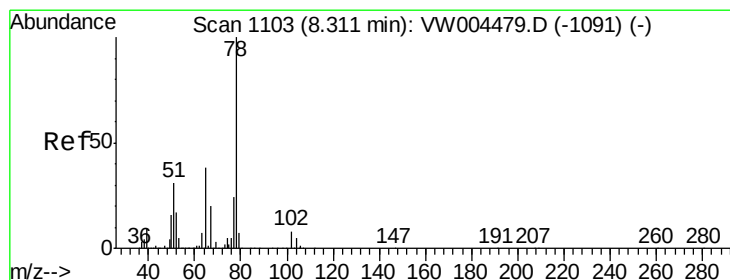
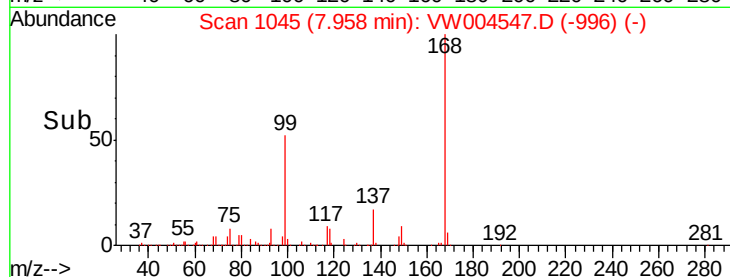
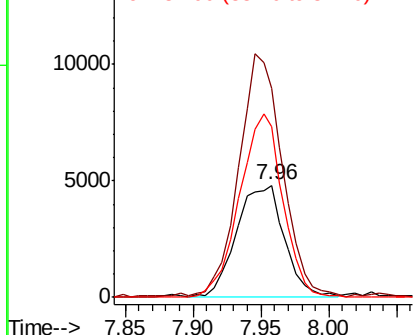
#31  
Cyclohexane  
Concen: 1.028 ug/l  
RT: 7.96 min Scan# 1045  
Delta R.T. 0.00 min  
Lab File: VW004547.D  
Acq: 09 Aug 2018 00:10

Instrument :  
MSVOA\_W  
ClientSampleId :  
C-12

Tgt Ion: 56 Resp: 11833  
Ion Ratio Lower Upper  
56 100  
69 184.8 26.4 39.6#  
84 152.1 66.9 100.3#

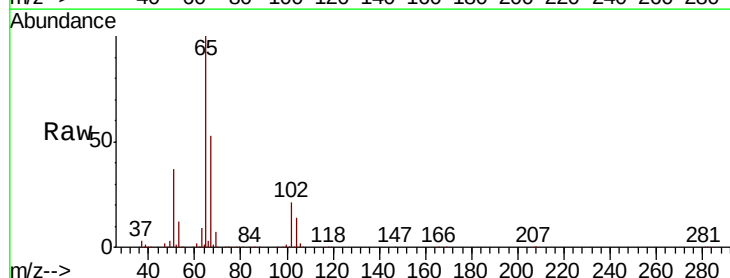


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

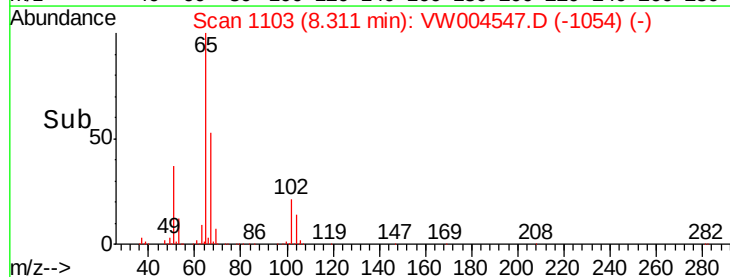
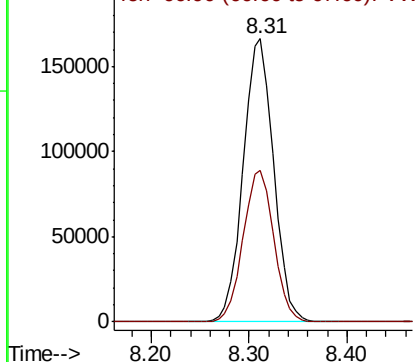


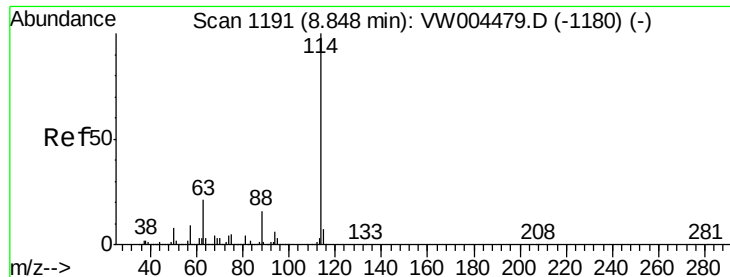
#33  
1,2-Dichloroethane-d4  
Concen: 58.539 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. 0.00 min  
Lab File: VW004547.D  
Acq: 09 Aug 2018 00:10

Tgt Ion: 65 Resp: 359588  
Ion Ratio Lower Upper  
65 100  
67 54.0 0.0 109.0



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: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW004547.D

Acq: 09 Aug 2018 00:10

Instrument :

MSVOA\_W

ClientSampleId :

C-12

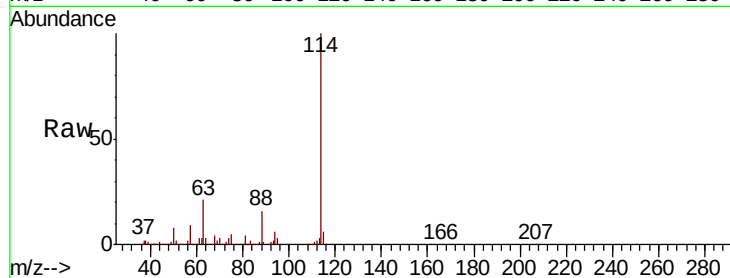
Tgt Ion:114 Resp: 965278

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.4

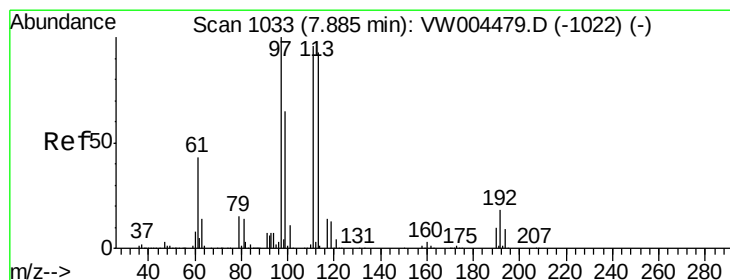
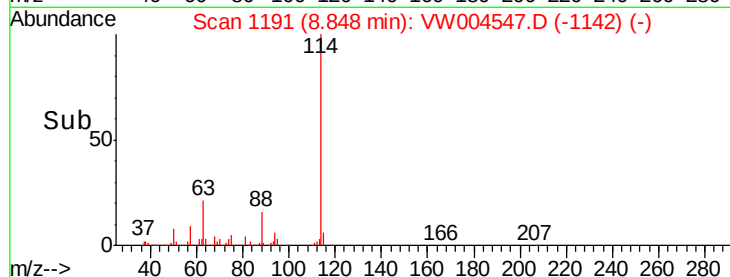
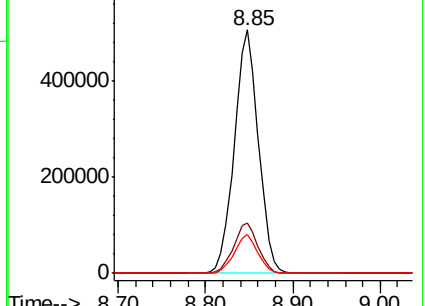
88 15.7 0.0 31.2



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: 50.595 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VW004547.D

Acq: 09 Aug 2018 00:10

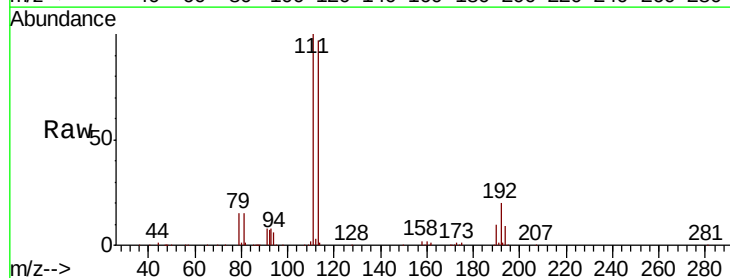
Tgt Ion:113 Resp: 325637

Ion Ratio Lower Upper

113 100

111 103.4 82.9 124.3

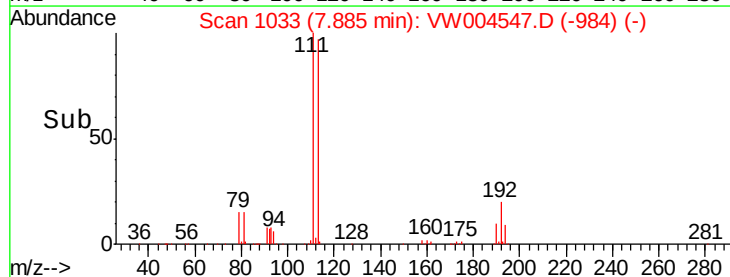
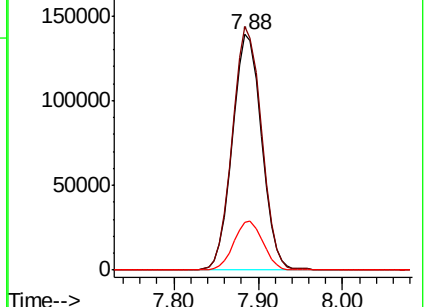
192 20.7 15.8 23.6

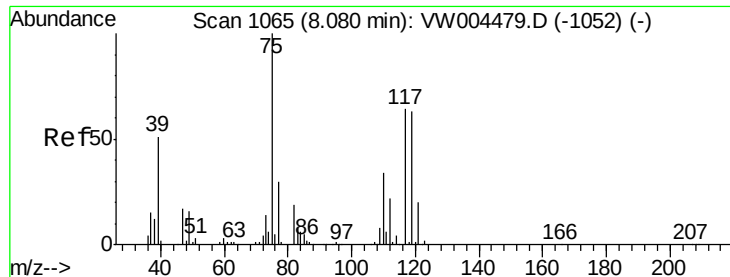


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

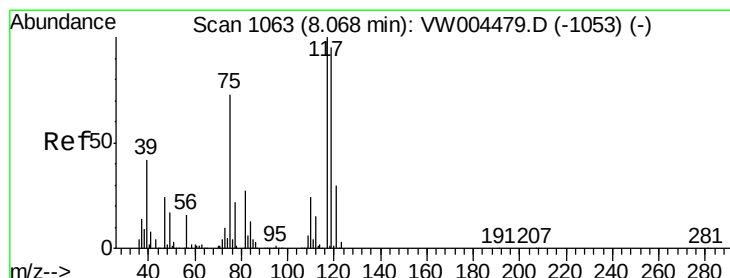
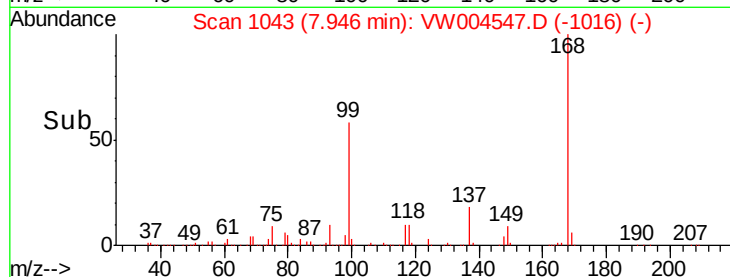
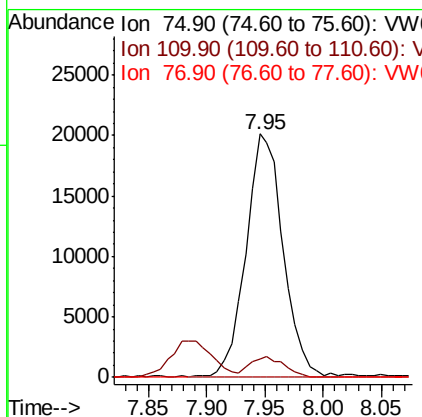
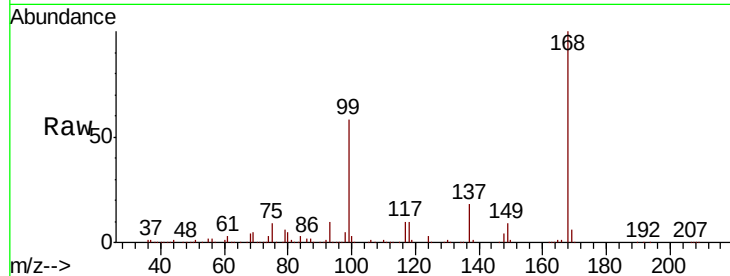




#36  
 1,1-Dichloropropene  
 Concen: 4.318 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.13 min  
 Lab File: VW004547.D  
 Acq: 09 Aug 2018 00:10

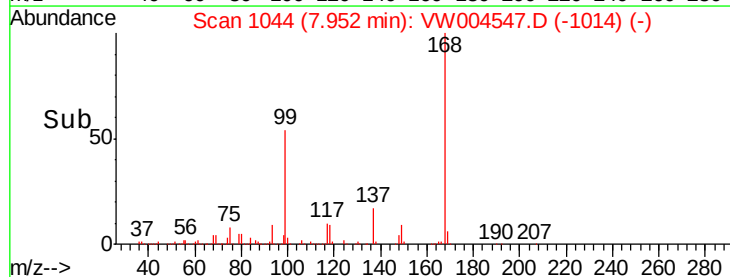
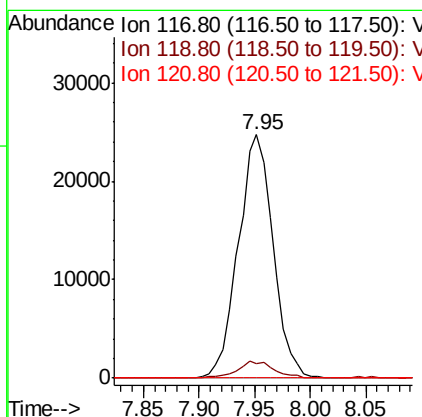
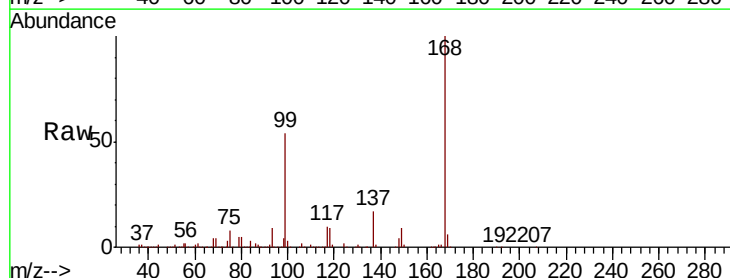
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-12

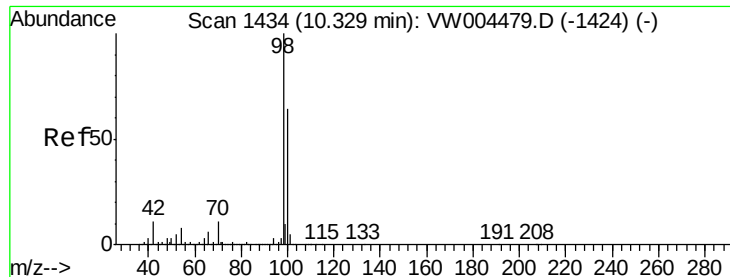
Tgt Ion: 75 Resp: 44883  
 Ion Ratio Lower Upper  
 75 100  
 110 7.7 17.4 52.2#  
 77 0.0 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 5.737 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.12 min  
 Lab File: VW004547.D  
 Acq: 09 Aug 2018 00:10

Tgt Ion: 117 Resp: 53655  
 Ion Ratio Lower Upper  
 117 100  
 119 6.2 76.1 114.1#  
 121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 42.234 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW004547.D

Acq: 09 Aug 2018 00:10

Instrument :

MSVOA\_W

ClientSampleId :

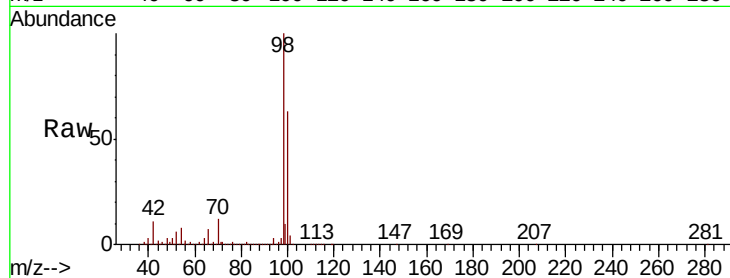
C-12

Tgt Ion: 98 Resp: 1036308

Ion Ratio Lower Upper

98 100

100 62.9 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.33

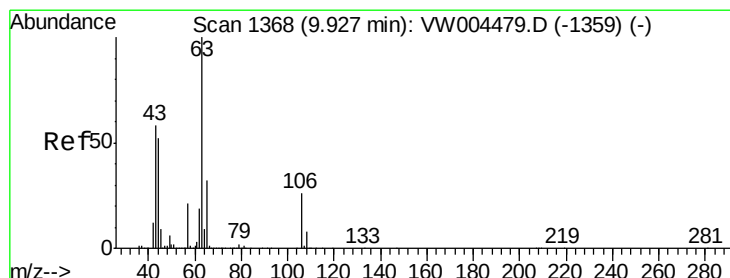
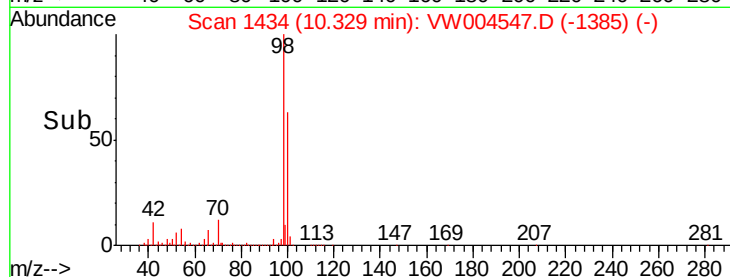
600000

400000

200000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 8.984 ug/l

RT: 9.93 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VW004547.D

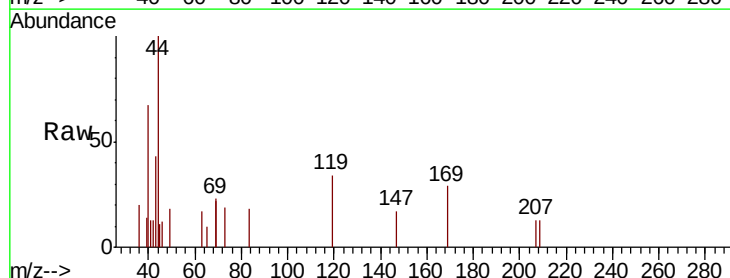
Acq: 09 Aug 2018 00:10

Tgt Ion: 63 Resp: 146

Ion Ratio Lower Upper

63 100

106 0.0 21.3 31.9#



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V

9.93

100

80

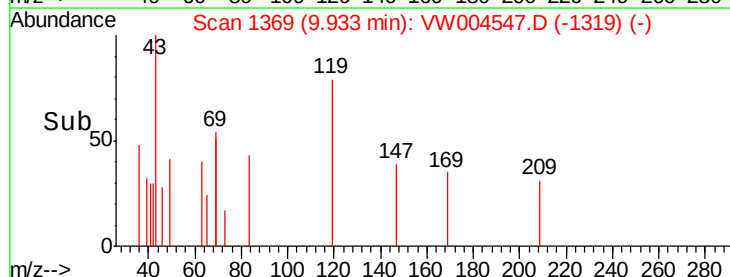
60

40

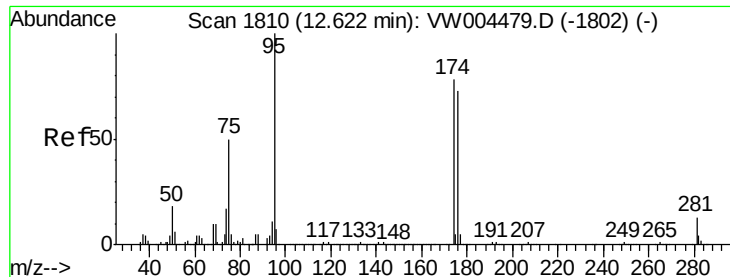
20

0

Time-->



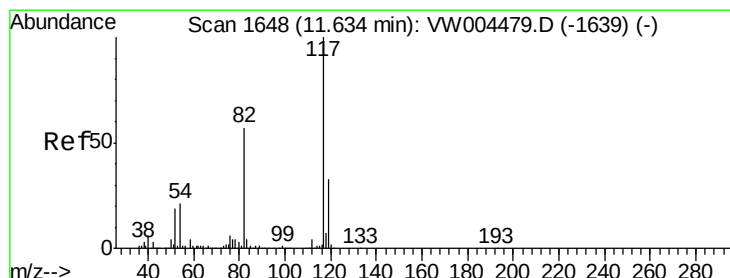
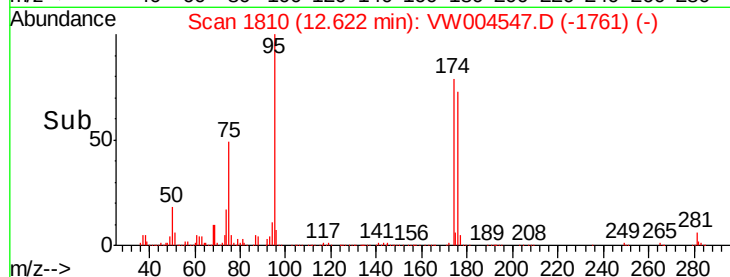
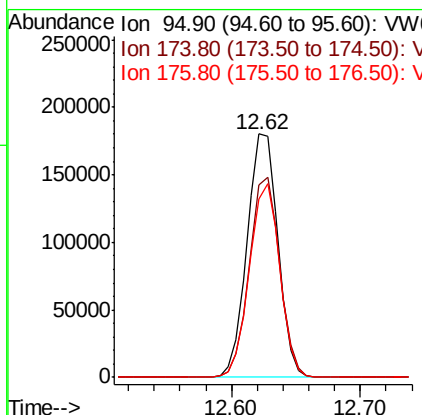
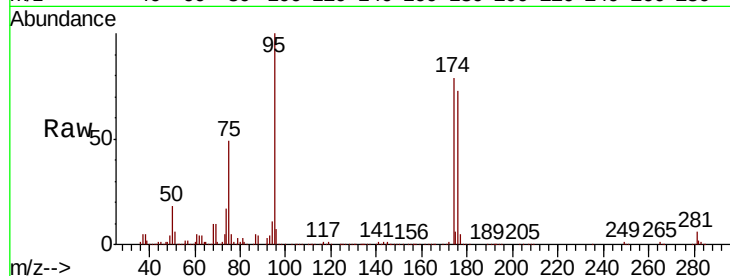




#62  
4-Bromofluorobenzene  
Concen: 33.574 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.00 min  
Lab File: VW004547.D  
Acq: 09 Aug 2018 00:10

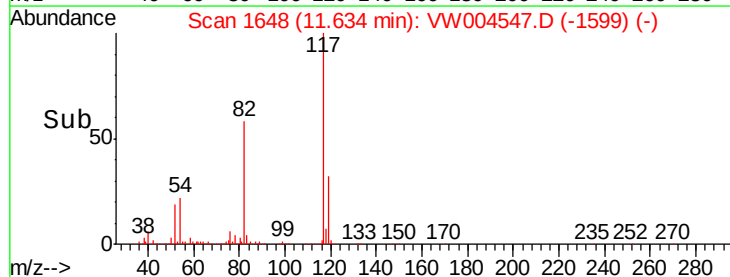
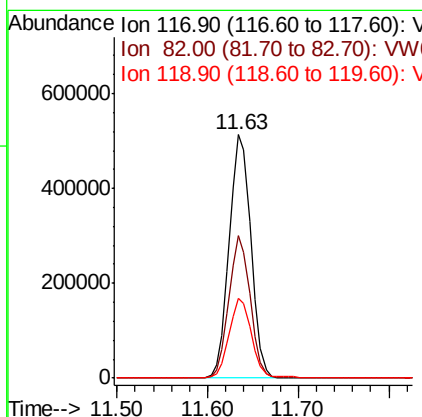
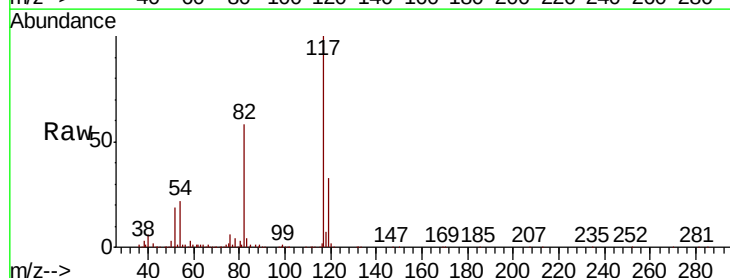
Instrument :  
MSVOA\_W  
ClientSampled :  
C-12

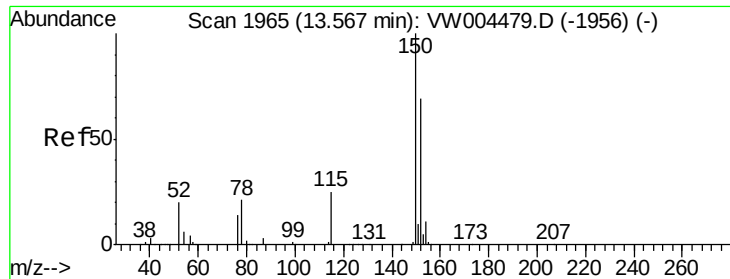
Tgt Ion: 95 Resp: 296747  
Ion Ratio Lower Upper  
95 100  
174 81.3 0.0 160.4  
176 78.0 0.0 153.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW004547.D  
Acq: 09 Aug 2018 00:10

Tgt Ion: 117 Resp: 853828  
Ion Ratio Lower Upper  
117 100  
82 58.5 45.3 67.9  
119 32.5 26.2 39.4



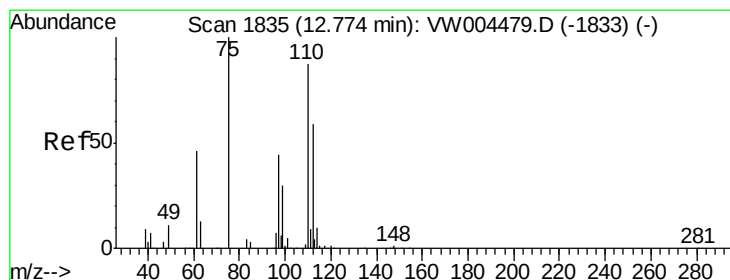
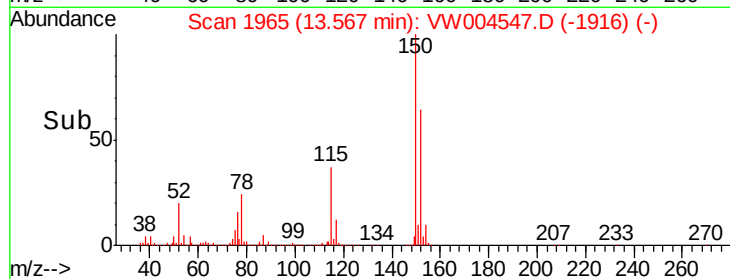
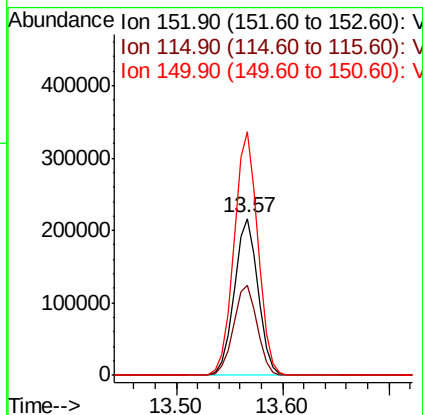
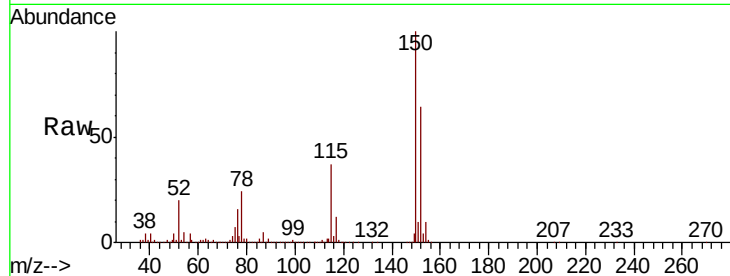


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW004547.D  
Acq: 09 Aug 2018 00:10

Instrument :  
MSVOA\_W  
ClientSampled :  
C-12

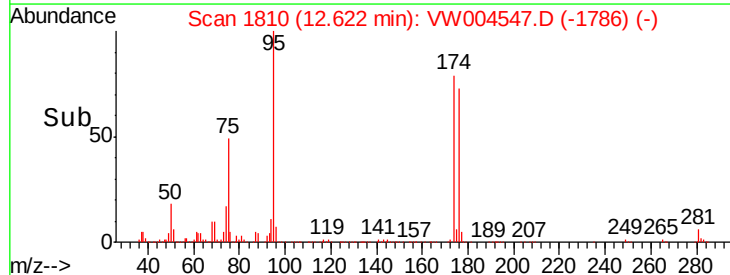
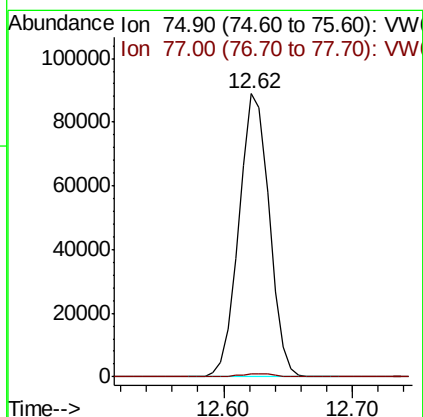
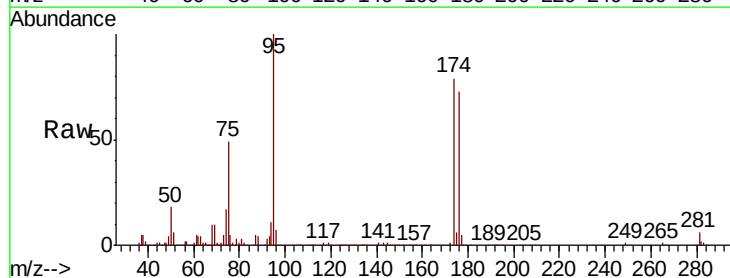
Tgt Ion:152 Resp: 337851  
Ion Ratio Lower Upper  
152 100  
115 57.6 29.1 87.3  
150 155.7 0.0 349.6

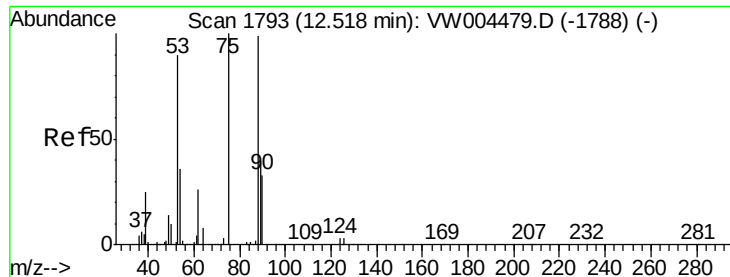


#76

1,2,3-Trichloropropane  
Concen: 41.353 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.15 min  
Lab File: VW004547.D  
Acq: 09 Aug 2018 00:10

Tgt Ion: 75 Resp: 144569  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 98.993 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004547.D

Acq: 09 Aug 2018 00:10

Instrument :

MSVOA\_W

ClientSampleId :

C-12

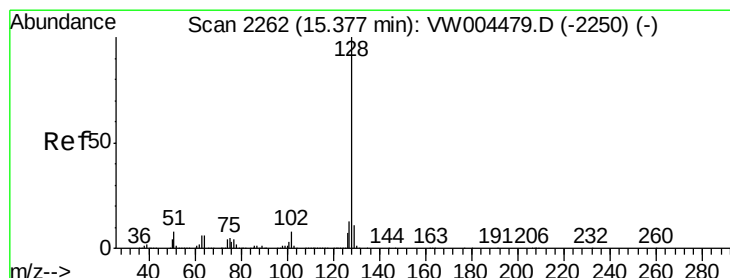
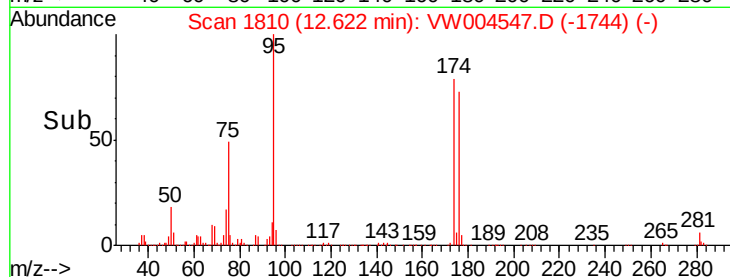
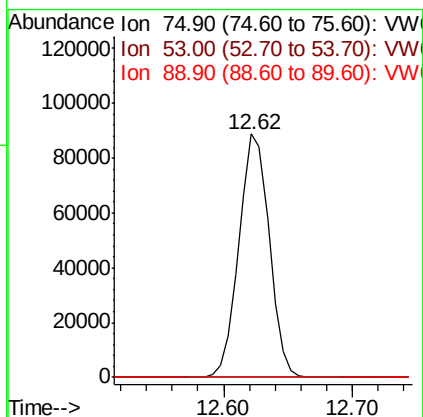
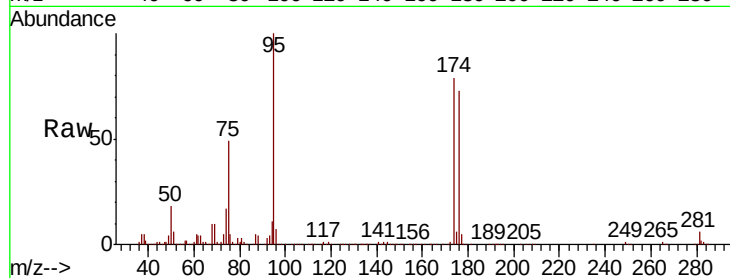
Tgt Ion: 75 Resp: 144569

Ion Ratio Lower Upper

75 100

53 0.3 74.4 111.6#

89 0.0 35.9 53.9#



#95

Naphthalene

Concen: 2.973 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VW004547.D

Acq: 09 Aug 2018 00:10

Tgt Ion: 128 Resp: 926

Ion Ratio Lower Upper

128 100

127 4.6 10.3 15.5#

129 3.8 8.6 13.0#

