

Data Path : W:\HPCHEM1\MSVOA\_W\DATA\VW051518\  
 Data File : VW002556.D  
 Acq On : 15 May 2018 17:48  
 Operator : JC/SY  
 Sample : J2888-09  
 Misc : 5.04G/8ML/MSVOA\_W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 RRT-S1

Quant Time: May 16 05:45:34 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 15 03:32:11 2018  
 Response via : Initial Calibration

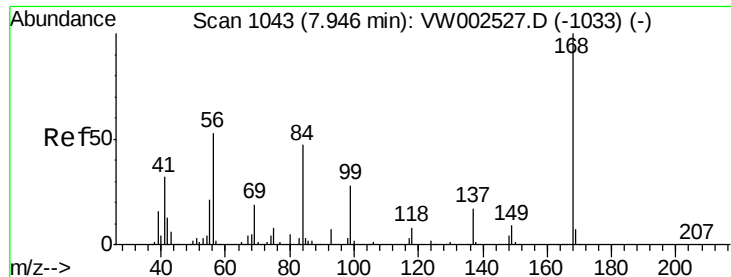
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 151782   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 231791   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 215921   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 114511   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 71099    | 45.33 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.66% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 16617    | 11.30 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 22.60% |      |
| 50) Toluene-d8              | 10.33  | 98  | 213679   | 38.19 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 76.38% |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 81945    | 40.06 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 80.12% |      |

| Target Compounds               |       |     |       |        |      | Qvalue |
|--------------------------------|-------|-----|-------|--------|------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59  | 139   | 1.15   | ug/l | # 41   |
| 16) Acetone                    | 4.12  | 43  | 3041  | 9.18   | ug/l | 95     |
| 20) Methylene Chloride         | 4.91  | 84  | 3348  | Below  | Cal  | # 86   |
| 25) 2-Butanone                 | 7.18  | 43  | 1628  | 3.48   | ug/l | # 71   |
| 29) Tetrahydrofuran            | 7.52  | 42  | 388   | 1.33   | ug/l | # 85   |
| 31) Cyclohexane                | 7.95  | 56  | 3346  | 1.50   | ug/l | # 1    |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 11110 | 5.43   | ug/l | # 50   |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 14397 | 7.19   | ug/l | # 19   |
| 49) 1,4-Dioxane                | 9.23  | 88  | 42    | 2.96   | ug/l | # 14   |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 42751 | 39.50  | ug/l | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 42751 | 107.68 | ug/l | # 8    |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VW002556.D

Acq: 15 May 2018 17:48

Instrument :

MSVOA\_W

ClientSampled :

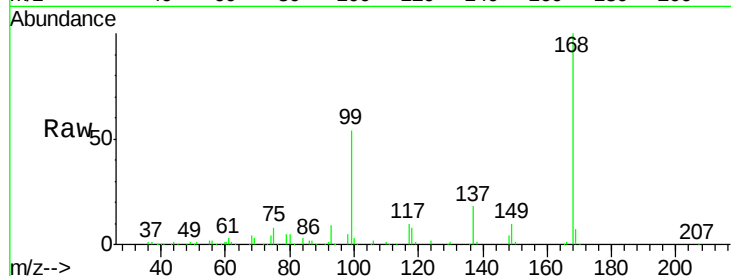
RRT-S1

Tgt Ion: 168 Resp: 151782

Ion Ratio Lower Upper

168 100

99 53.9 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

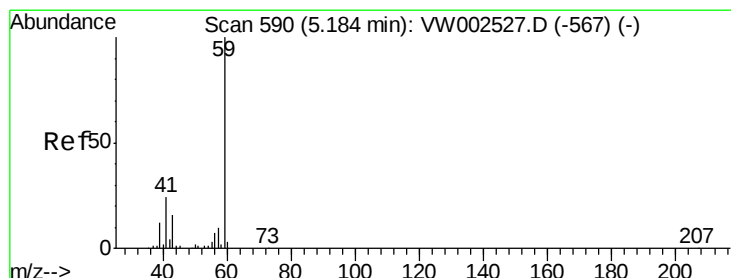
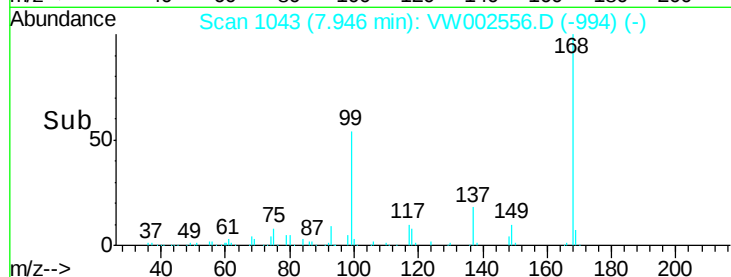
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 1.15 ug/l

RT: 5.19 min Scan# 591

Delta R.T. 0.01 min

Lab File: VW002556.D

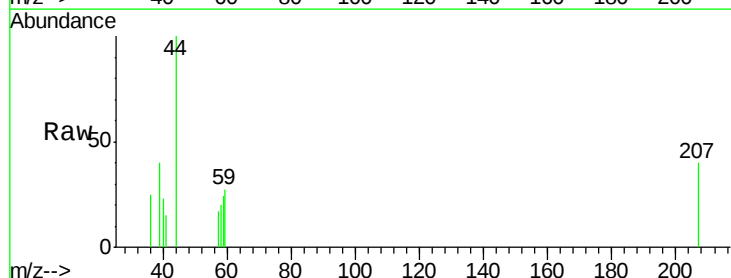
Acq: 15 May 2018 17:48

Tgt Ion: 59 Resp: 139

Ion Ratio Lower Upper

59 100

57 32.4 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.19

200

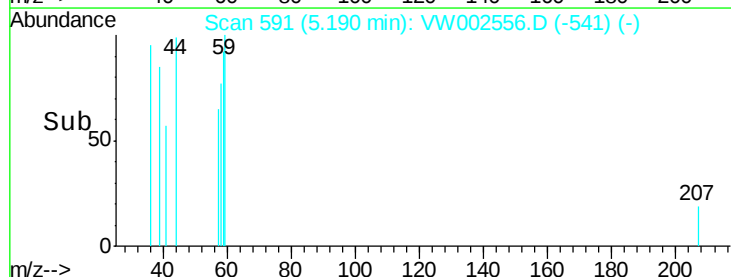
150

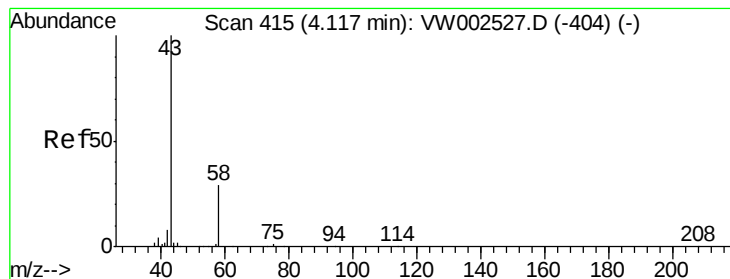
100

50

0

Time--> 5.18 5.19 5.20 5.21





#16

Acetone

Concen: 9.18 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.01 min

Lab File: VW002556.D

Acq: 15 May 2018 17:48

Instrument :

MSVOA\_W

ClientSampled :

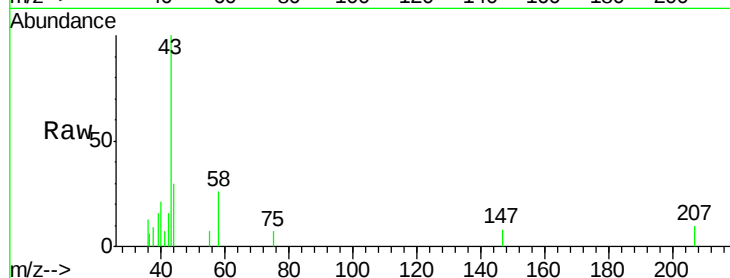
RRT-S1

Tgt Ion: 43 Resp: 3041

Ion Ratio Lower Upper

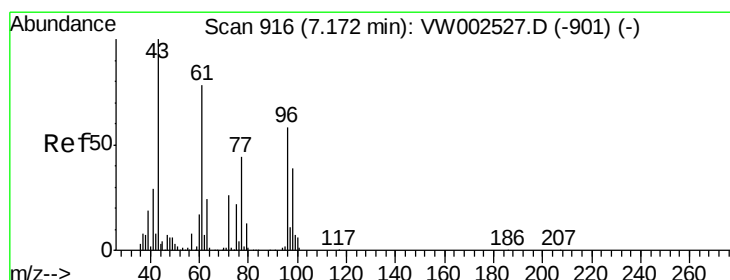
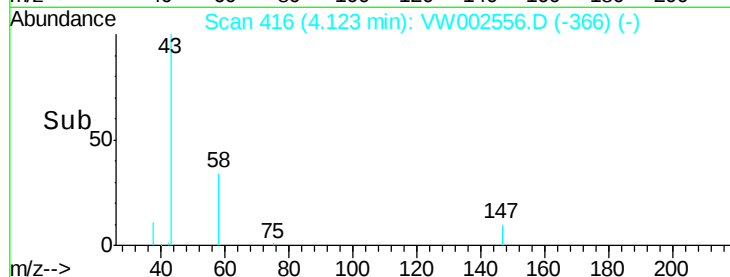
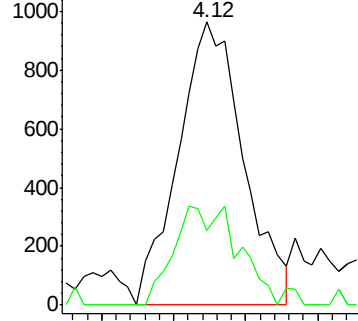
43 100

58 26.5 23.4 35.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#25

2-Butanone

Concen: 3.48 ug/l

RT: 7.18 min Scan# 917

Delta R.T. 0.01 min

Lab File: VW002556.D

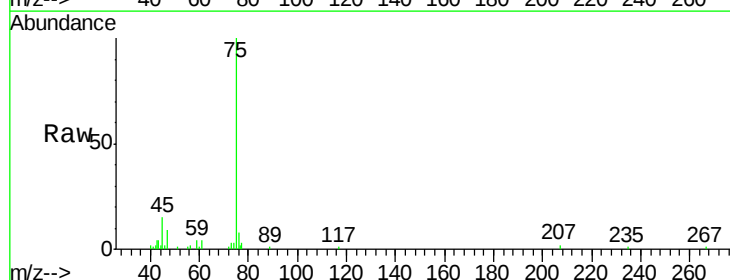
Acq: 15 May 2018 17:48

Tgt Ion: 43 Resp: 1628

Ion Ratio Lower Upper

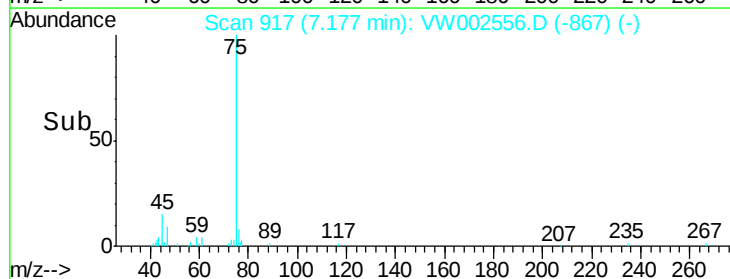
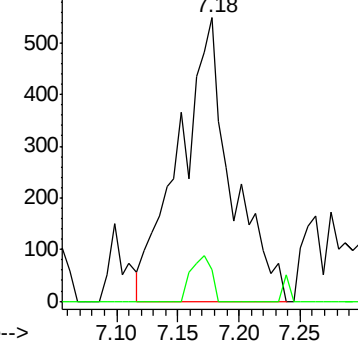
43 100

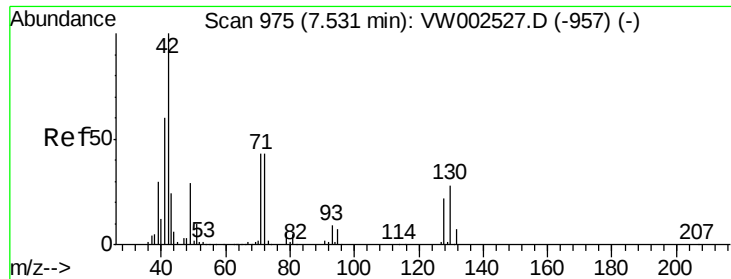
72 11.3 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

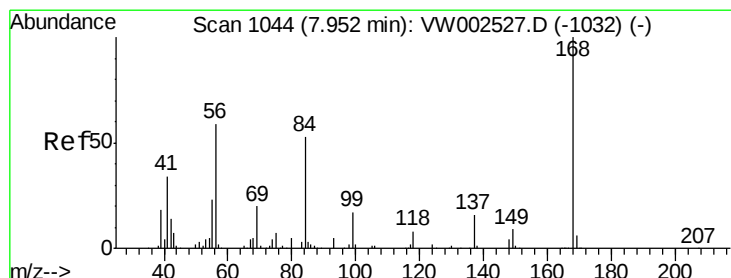
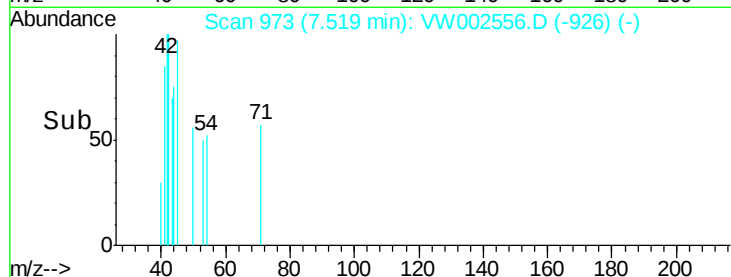
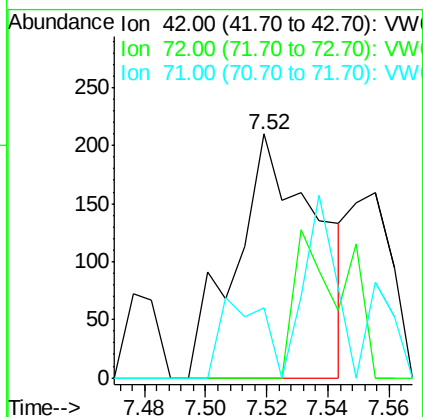
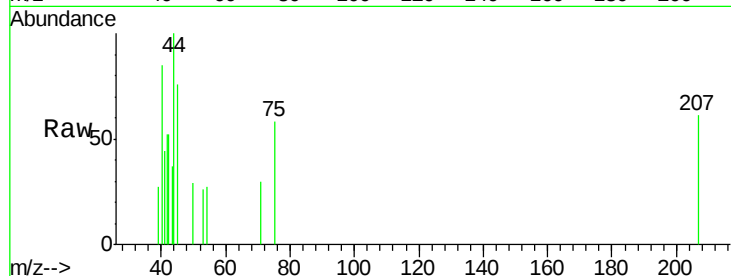




#29  
Tetrahydrofuran  
Concen: 1.33 ug/l  
RT: 7.52 min Scan# 973  
Delta R.T. -0.01 min  
Lab File: VW002556.D  
Acq: 15 May 2018 17:48

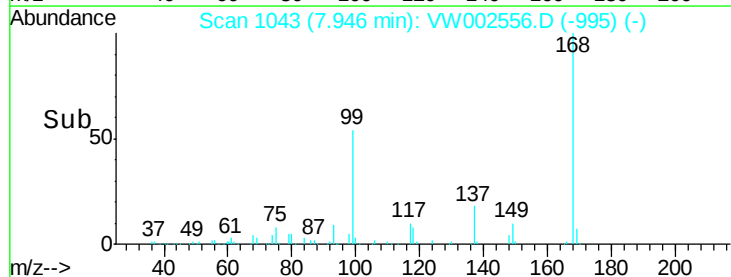
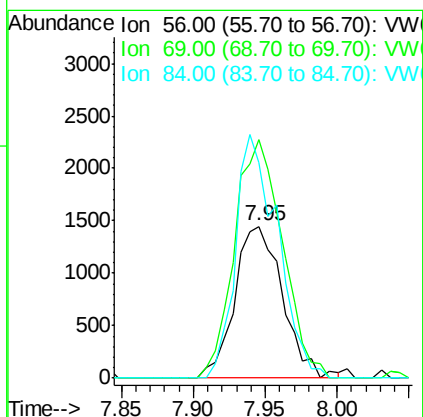
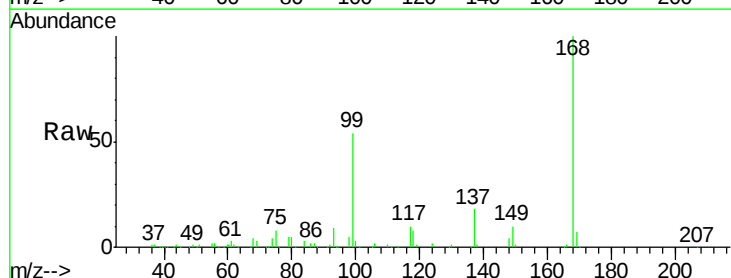
Instrument :  
MSVOA\_W  
ClientSampled :  
RRT-S1

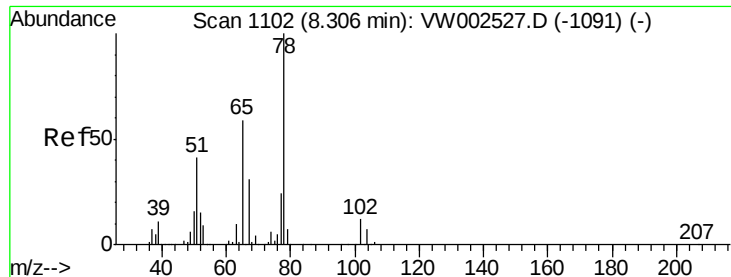
Tgt Ion: 42 Resp: 388  
Ion Ratio Lower Upper  
42 100  
72 36.9 35.0 52.4  
71 28.9 33.0 49.6#



#31  
Cyclohexane  
Concen: 1.50 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW002556.D  
Acq: 15 May 2018 17:48

Tgt Ion: 56 Resp: 3346  
Ion Ratio Lower Upper  
56 100  
69 157.3 27.0 40.4#  
84 141.8 72.2 108.2#

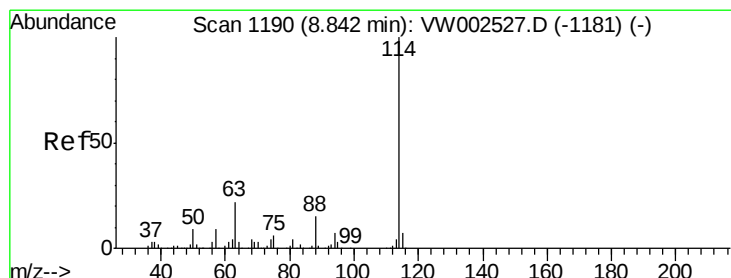
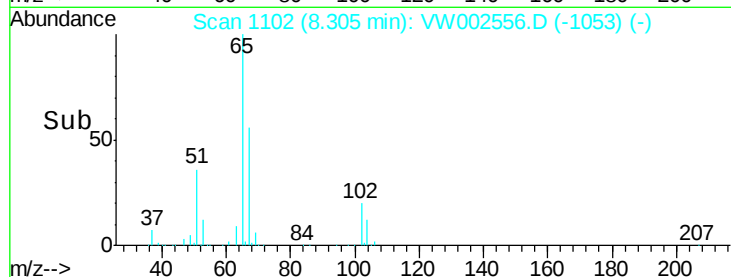
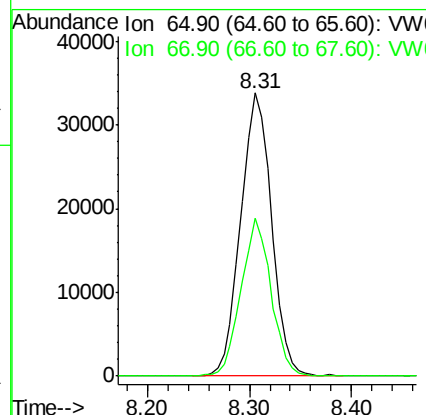
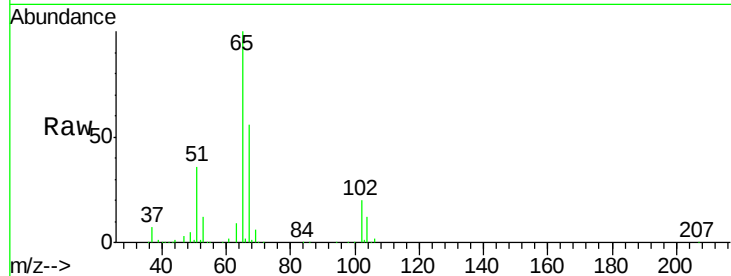




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.33 ug/l  
 RT: 8.31 min Scan# 1102  
 Delta R.T. -0.00 min  
 Lab File: VW002556.D  
 Acq: 15 May 2018 17:48

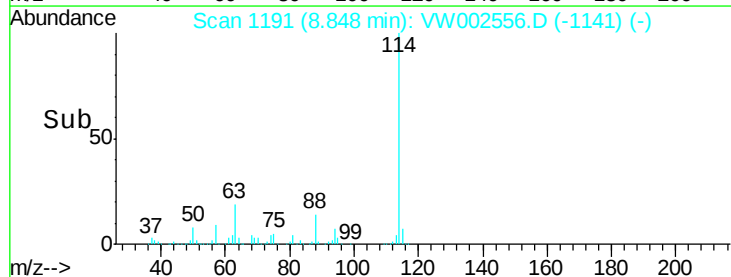
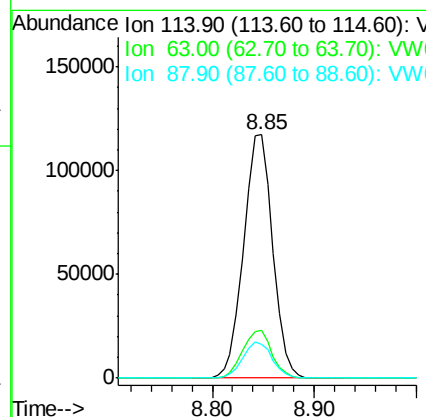
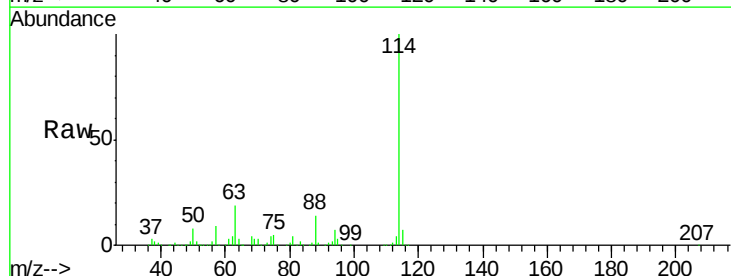
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 RRT-S1

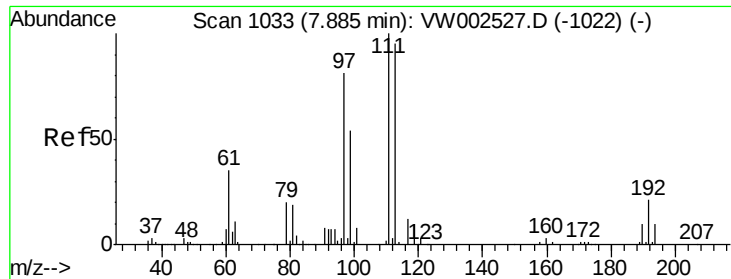
Tgt Ion: 65 Resp: 71099  
 Ion Ratio Lower Upper  
 65 100  
 67 54.0 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.01 min  
 Lab File: VW002556.D  
 Acq: 15 May 2018 17:48

Tgt Ion: 114 Resp: 231791  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 43.2  
 88 13.7 0.0 29.2

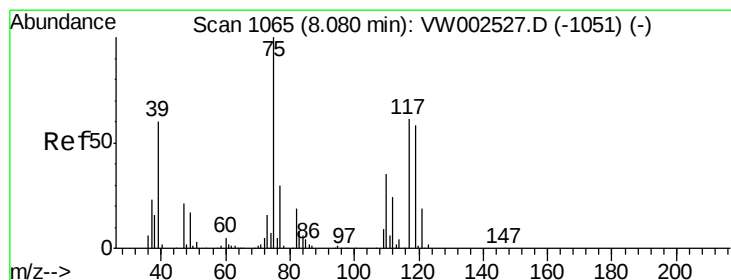
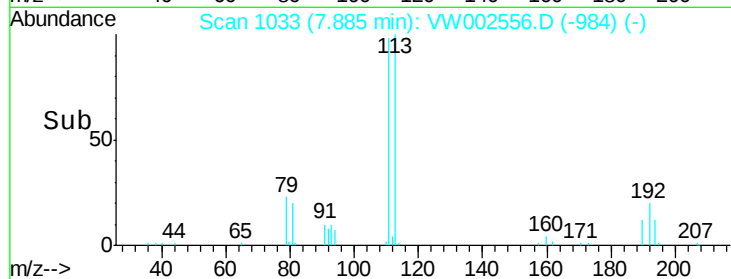
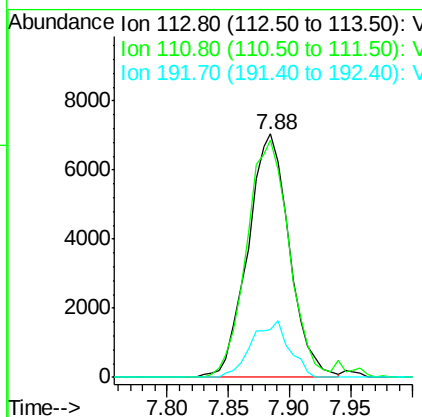
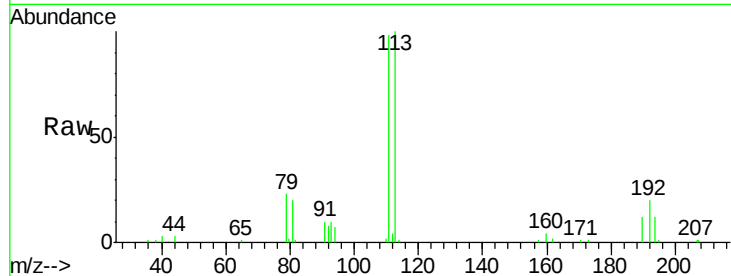




#35  
 Dibromofluoromethane  
 Concen: 11.30 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW002556.D  
 Acq: 15 May 2018 17:48

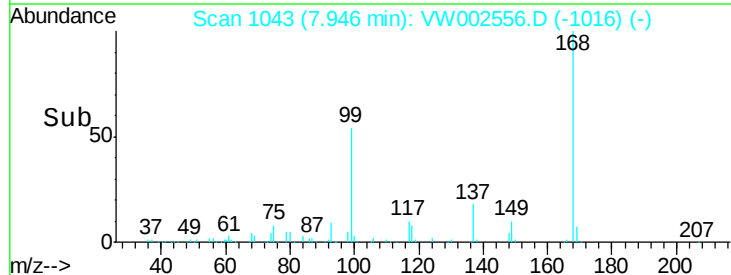
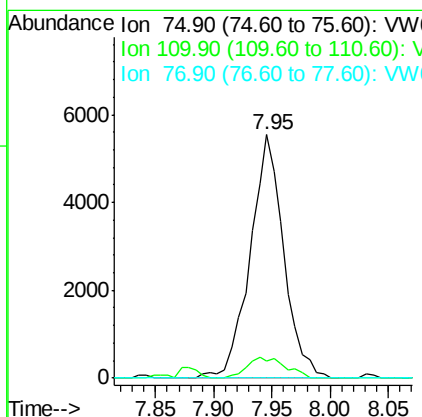
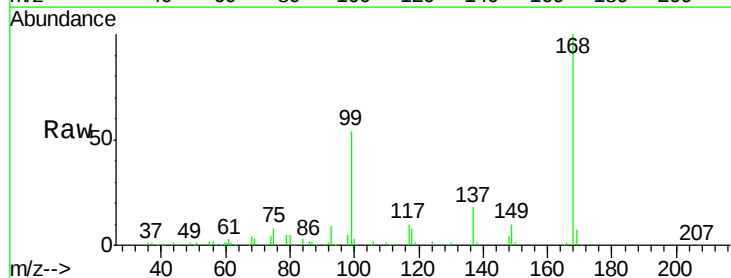
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 RRT-S1

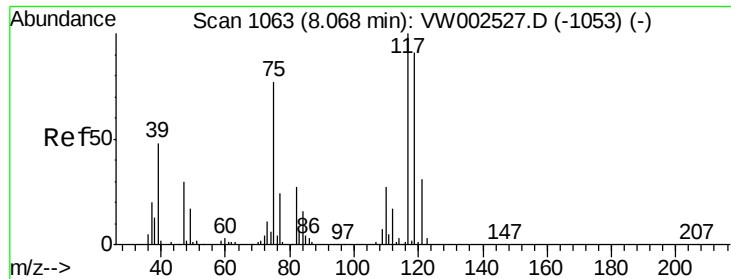
Tgt Ion:113 Resp: 16617  
 Ion Ratio Lower Upper  
 113 100  
 111 99.9 81.8 122.8  
 192 21.1 17.5 26.3



#36  
 1,1-Dichloropropene  
 Concen: 5.43 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.13 min  
 Lab File: VW002556.D  
 Acq: 15 May 2018 17:48

Tgt Ion: 75 Resp: 11110  
 Ion Ratio Lower Upper  
 75 100  
 110 9.8 17.8 53.5#  
 77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 7.19 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW002556.D

Acq: 15 May 2018 17:48

Instrument :

MSVOA\_W

ClientSampled :

RRT-S1

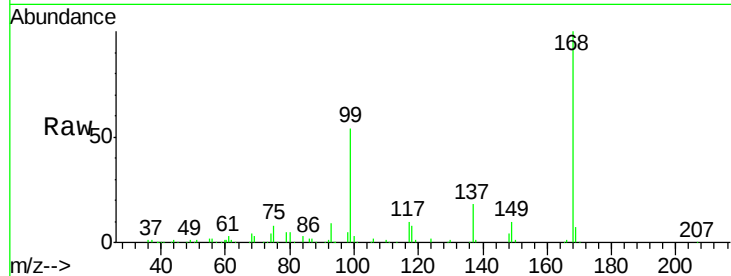
Tgt Ion:117 Resp: 14397

Ion Ratio Lower Upper

117 100

119 6.5 73.1 109.7#

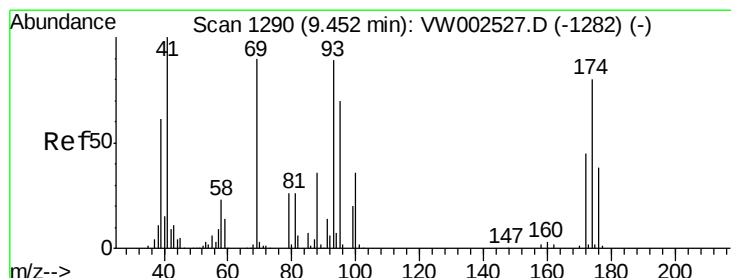
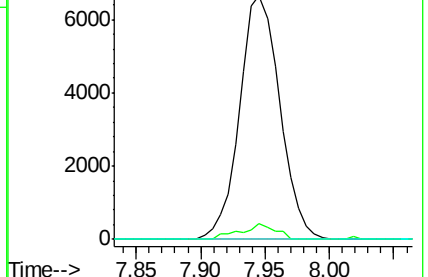
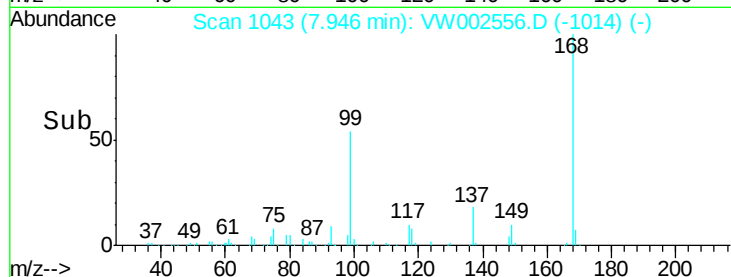
121 0.0 24.4 36.6#



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: 2.96 ug/l

RT: 9.23 min Scan# 1253

Delta R.T. -0.23 min

Lab File: VW002556.D

Acq: 15 May 2018 17:48

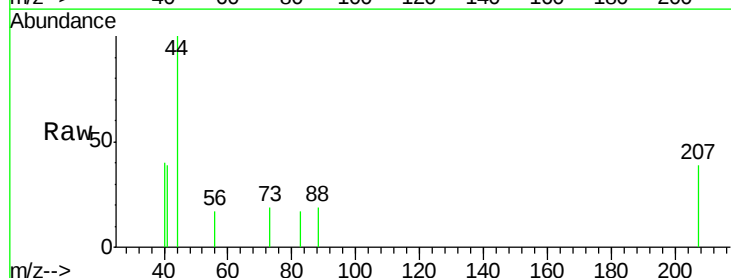
Tgt Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 152.4 27.0 40.4#

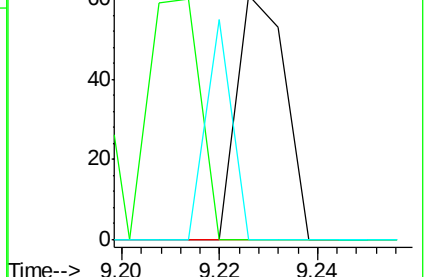
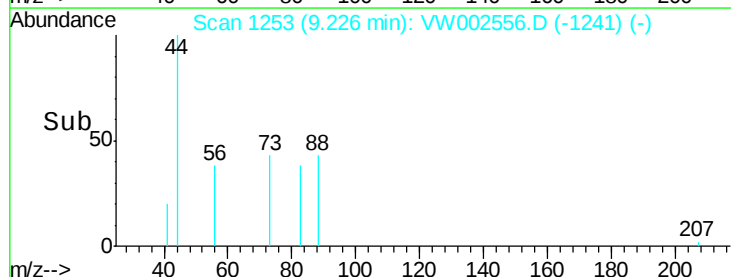
58 47.6 56.9 85.3#

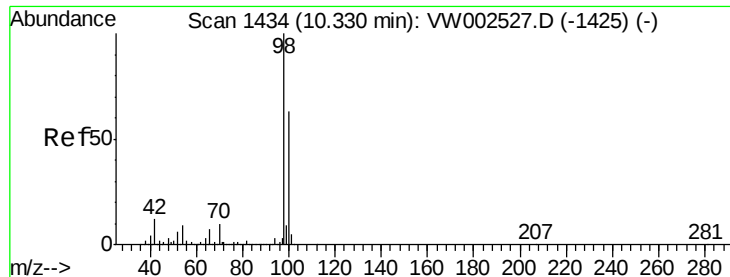


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 38.19 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW002556.D

Acq: 15 May 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

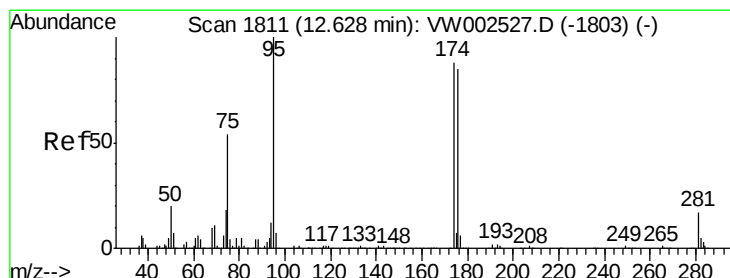
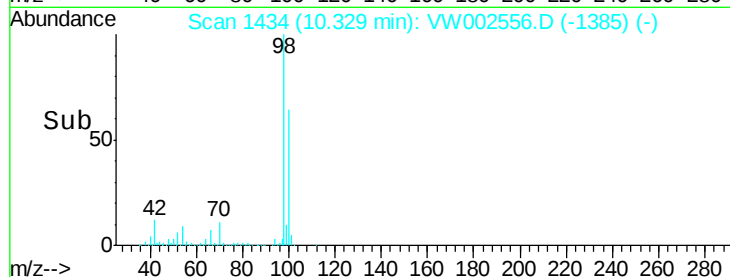
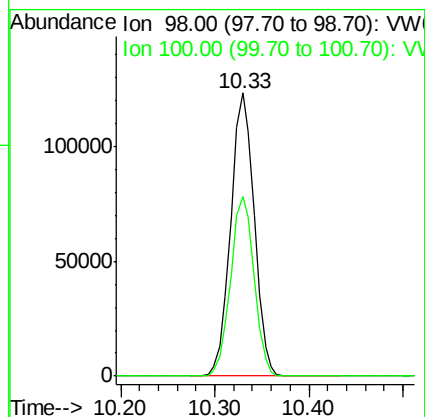
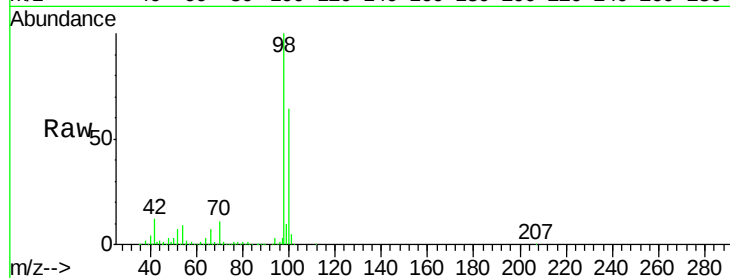
RRT-S1

Tgt Ion: 98 Resp: 213679

Ion Ratio Lower Upper

98 100

100 63.2 51.0 76.4



#62

4-Bromofluorobenzene

Concen: 40.06 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW002556.D

Acq: 15 May 2018 17:48

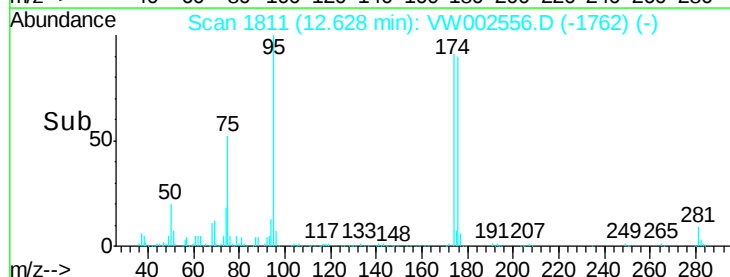
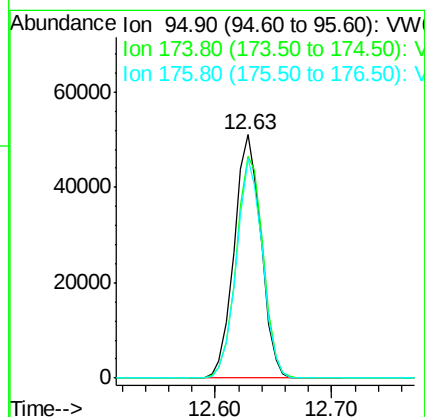
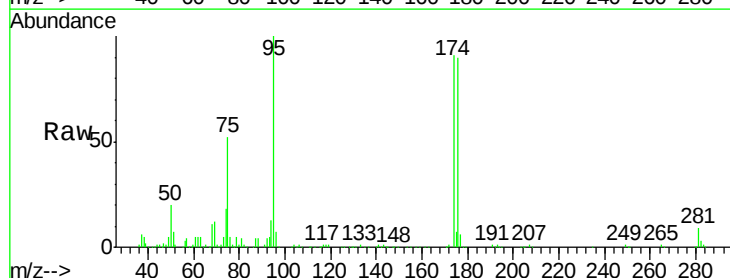
Tgt Ion: 95 Resp: 81945

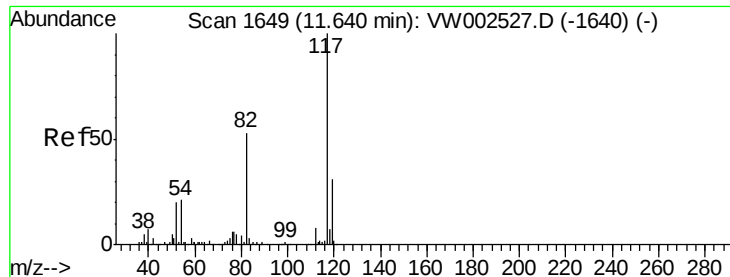
Ion Ratio Lower Upper

95 100

174 91.6 0.0 176.6

176 87.2 0.0 172.2

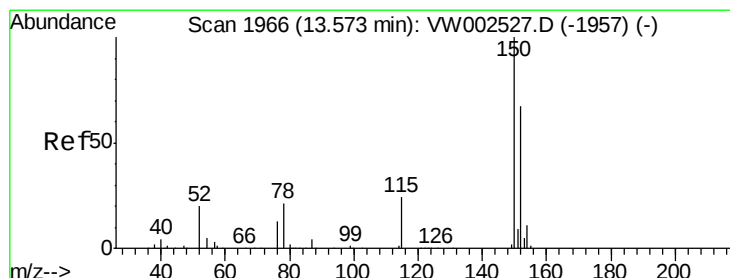
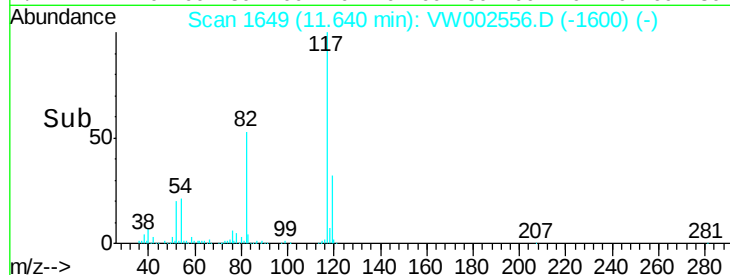
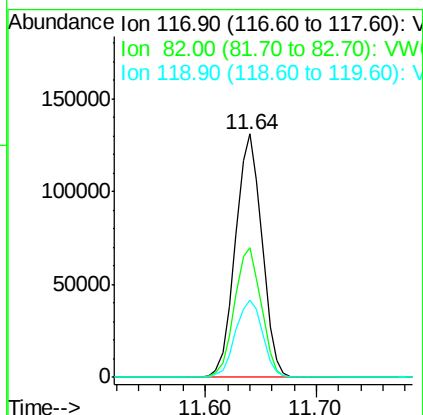
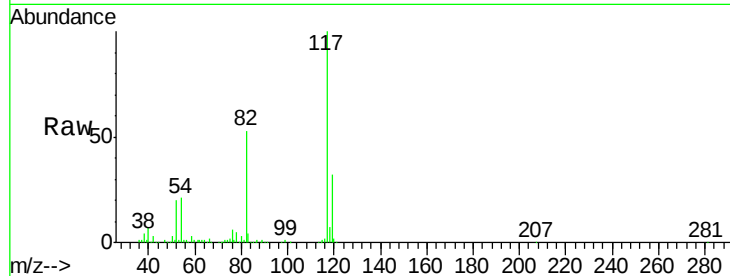




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: VW002556.D  
Acq: 15 May 2018 17:48

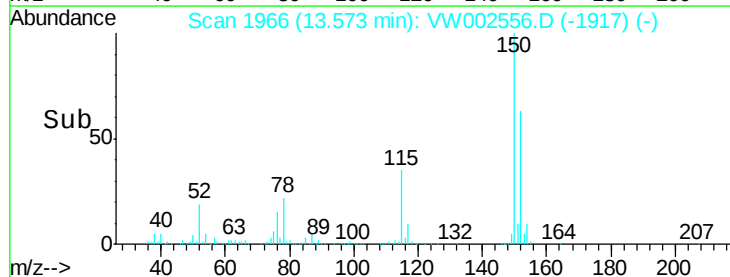
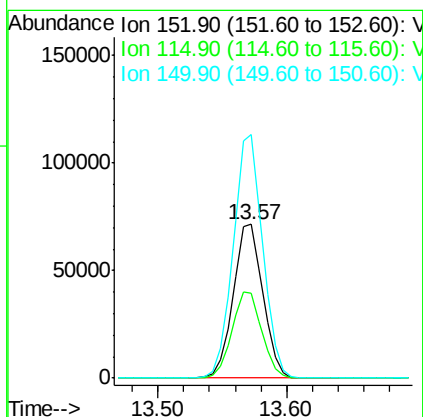
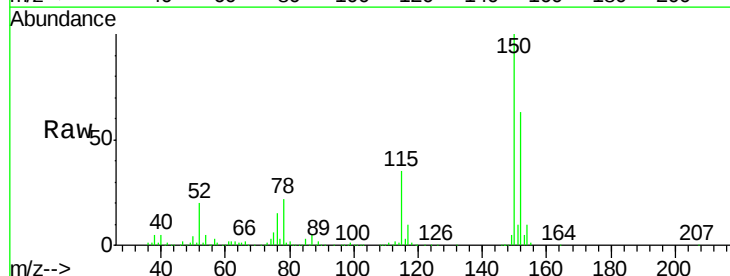
Instrument :  
MSVOA\_W  
ClientSampleId :  
RRT-S1

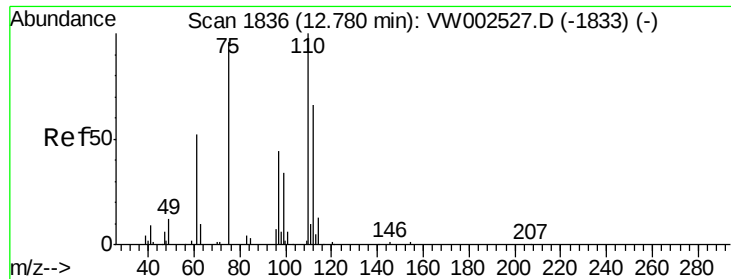
Tgt Ion:117 Resp: 215921  
Ion Ratio Lower Upper  
117 100  
82 53.3 42.6 64.0  
119 31.9 25.0 37.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1966  
Delta R.T. -0.00 min  
Lab File: VW002556.D  
Acq: 15 May 2018 17:48

Tgt Ion:152 Resp: 114511  
Ion Ratio Lower Upper  
152 100  
115 56.3 28.0 84.0  
150 157.0 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 39.50 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW002556.D

Acq: 15 May 2018 17:48

Instrument :

MSVOA\_W

ClientSampleId :

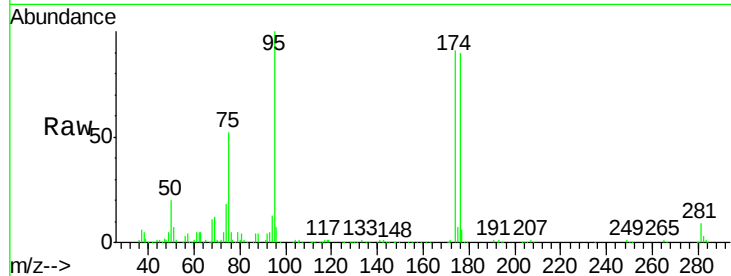
RRT-S1

Tgt Ion: 75 Resp: 42751

Ion Ratio Lower Upper

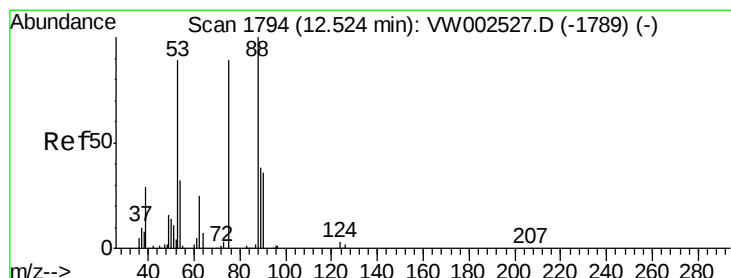
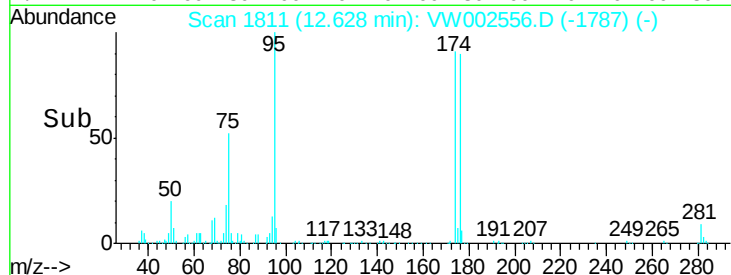
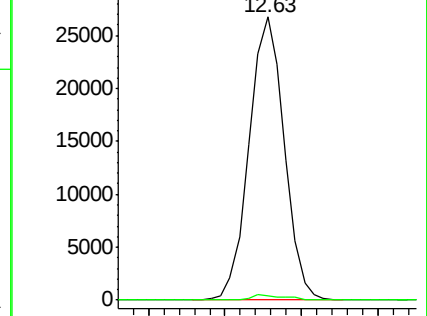
75 100

77 1.7 0.0 0.0#



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: 107.68 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.10 min

Lab File: VW002556.D

Acq: 15 May 2018 17:48

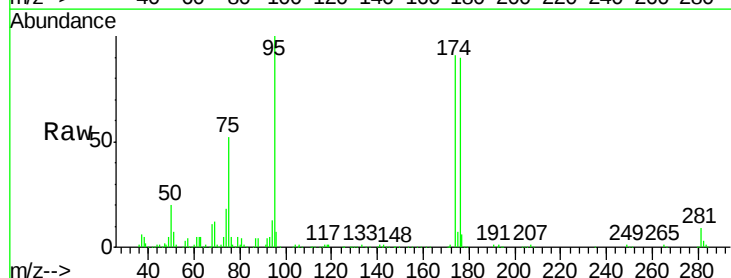
Tgt Ion: 75 Resp: 42751

Ion Ratio Lower Upper

75 100

53 0.0 82.6 124.0#

89 0.1 39.2 58.8#



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

