

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW062318\  
 Data File : VW003457.D  
 Acq On : 23 Jun 2018 13:53  
 Operator : SY/AP  
 Sample : J3663-06RE  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB472-28-30-180618RE

Quant Time: Jun 25 02:32:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 05:18:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 110424   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 178635   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 179319   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 103273   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 51947    | 43.43 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.86% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 44149    | 39.77 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 79.54% |      |
| 50) Toluene-d8              | 10.33  | 98  | 146217   | 33.22 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 66.44% |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 65521    | 42.07 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.14% |      |

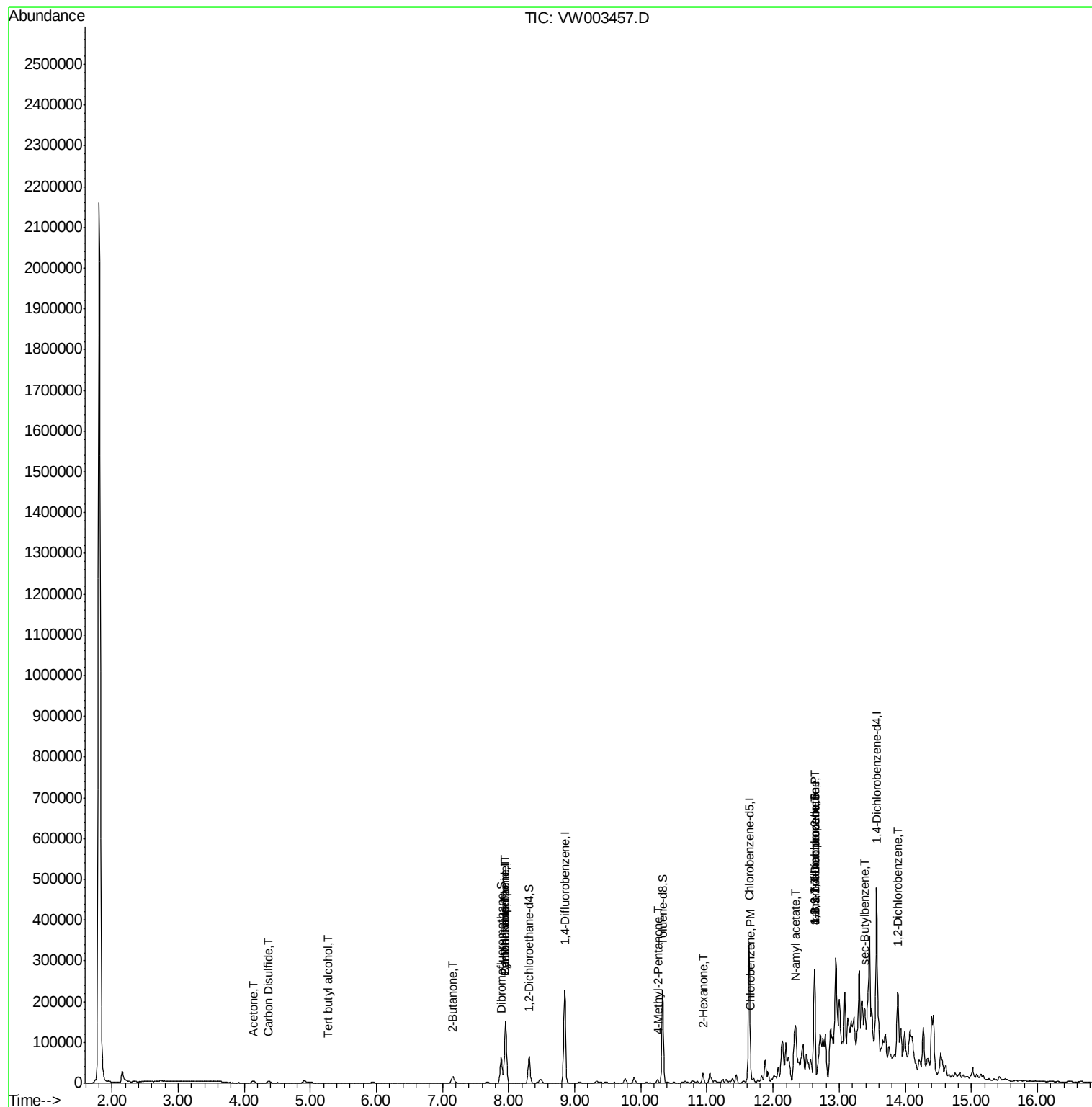
| Target Compounds               |       |     |       |           | Qvalue |     |
|--------------------------------|-------|-----|-------|-----------|--------|-----|
| 11) Tert butyl alcohol         | 5.26  | 59  | 66    | 1.029     | ug/l # | 84  |
| 16) Acetone                    | 4.14  | 43  | 8748  | 34.873    | ug/l   | 93  |
| 17) Carbon Disulfide           | 4.37  | 76  | 9252  | 3.131     | ug/l # | 93  |
| 20) Methylene Chloride         | 4.90  | 84  | 3601  | Below Cal | #      | 81  |
| 25) 2-Butanone                 | 7.15  | 43  | 782   | 2.507     | ug/l # | 50  |
| 31) Cyclohexane                | 7.95  | 56  | 2873  | 1.487     | ug/l # | 2   |
| 36) 1,1-Dichloropropene        | 7.96  | 75  | 8994  | 5.213     | ug/l # | 50  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 11598 | 6.854     | ug/l # | 16  |
| 51) 4-Methyl-2-Pentanone       | 10.26 | 43  | 1176  | 1.626     | ug/l   | 93  |
| 59) 2-Hexanone                 | 10.94 | 43  | 8742  | 17.306    | ug/l # | 32  |
| 65) Chlorobenzene              | 11.66 | 112 | 7892  | 2.113     | ug/l   | 89  |
| 74) N-amyl acetate             | 12.33 | 43  | 47202 | 28.871    | ug/l # | 66  |
| 75) 1,1,2,2-Tetrachloroethane  | 12.63 | 83  | 2308  | 1.899     | ug/l   | 91  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 32822 | 37.177    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 32822 | 85.546    | ug/l # | 13  |
| 85) sec-Butylbenzene           | 13.40 | 105 | 7912  | 1.036     | ug/l # | 57  |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146 | 13848 | 4.600     | ug/l # | 66  |

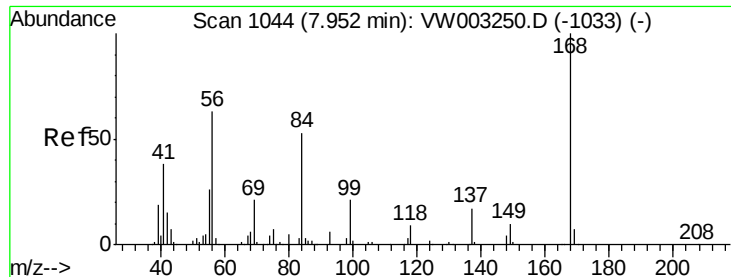
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW062318\  
Data File : VW003457.D  
Acq On : 23 Jun 2018 13:53  
Operator : SY/AP  
Sample : J3663-06RE  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB472-28-30-180618RE

Quant Time: Jun 25 02:32:09 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 05:18:54 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: VW003457.D

Acq: 23 Jun 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

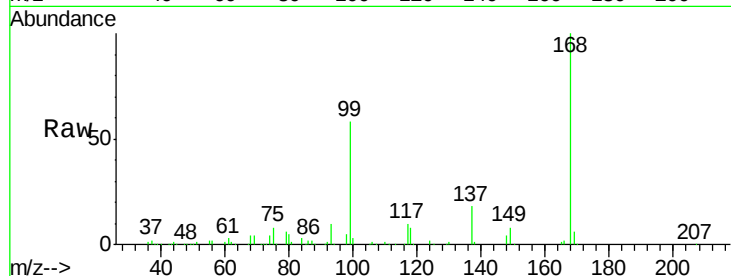
WP021SB472-28-30-180618RE

Tgt Ion:168 Resp: 110424

Ion Ratio Lower Upper

168 100

99 58.3 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

50000

40000

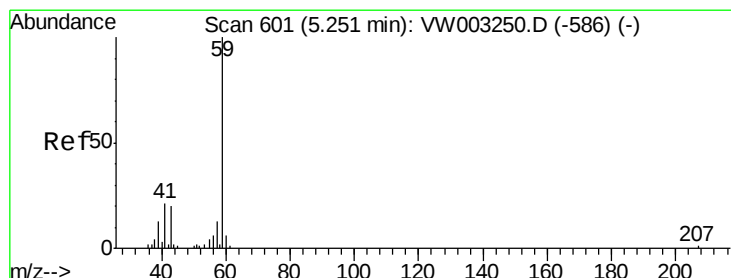
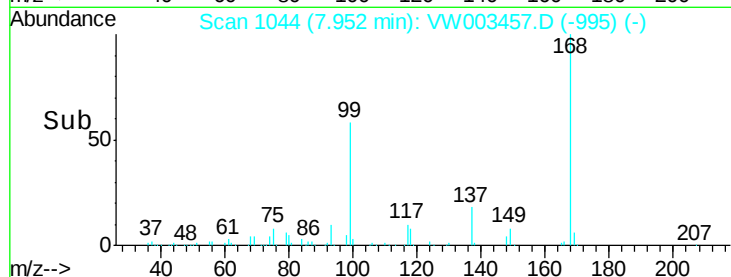
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.029 ug/l

RT: 5.26 min Scan# 602

Delta R.T. 0.01 min

Lab File: VW003457.D

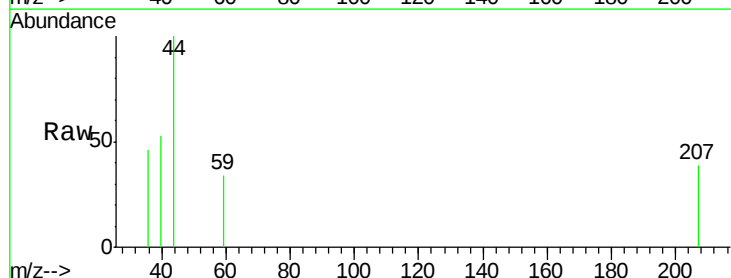
Acq: 23 Jun 2018 13:53

Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

59 100

57 0.0 4.2 6.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

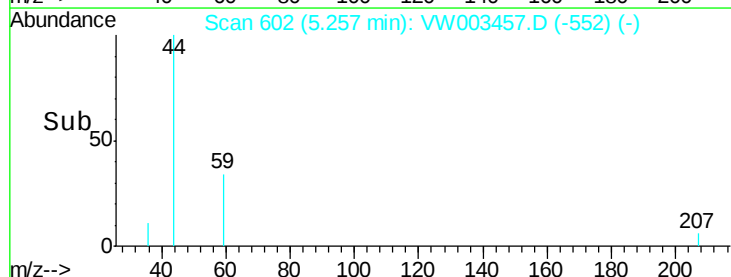
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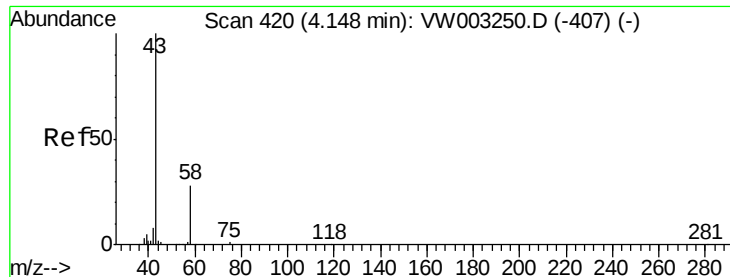
100

50

0

Time-->





#16

Acetone

Concen: 34.873 ug/l

RT: 4.14 min Scan# 418

Delta R.T. -0.01 min

Lab File: VW003457.D

Acq: 23 Jun 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

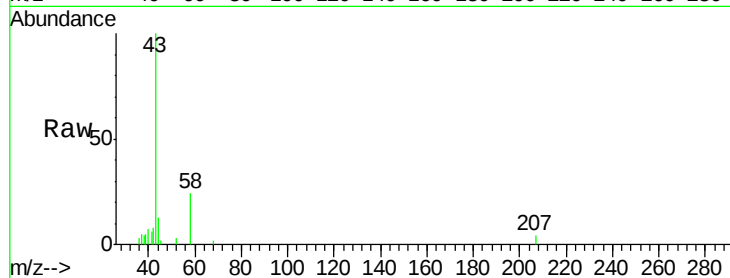
WP021SB472-28-30-180618RE

Tgt Ion: 43 Resp: 8748

Ion Ratio Lower Upper

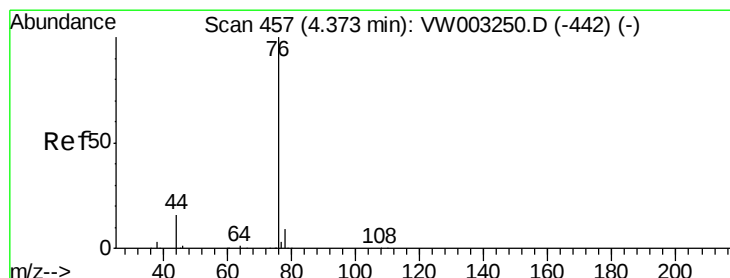
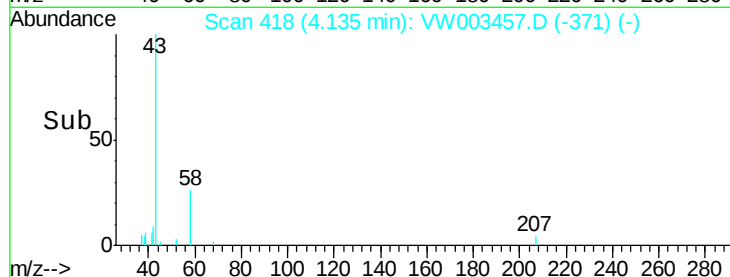
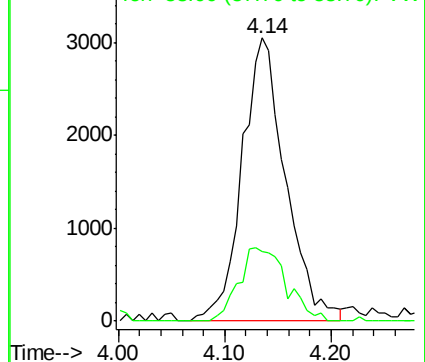
43 100

58 24.4 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 3.131 ug/l

RT: 4.37 min Scan# 456

Delta R.T. -0.01 min

Lab File: VW003457.D

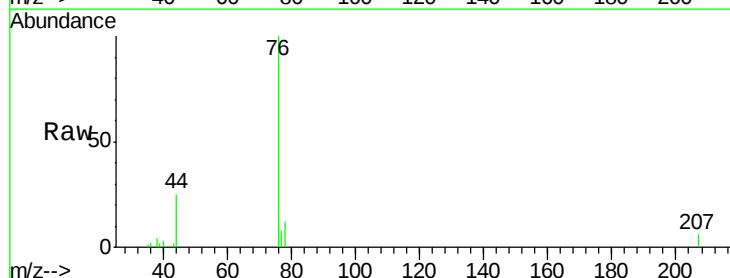
Acq: 23 Jun 2018 13:53

Tgt Ion: 76 Resp: 9252

Ion Ratio Lower Upper

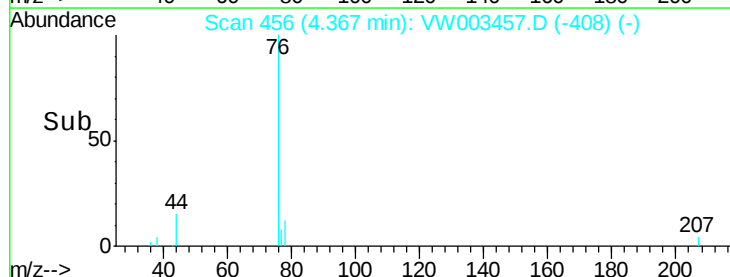
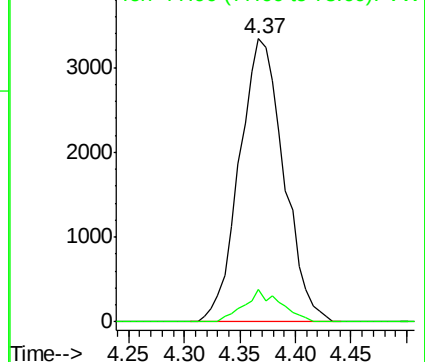
76 100

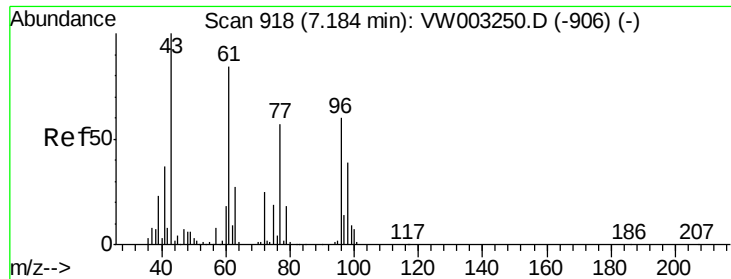
78 11.6 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW





#25

2-Butanone

Concen: 2.507 ug/l

RT: 7.15 min Scan# 913

Delta R.T. -0.03 min

Lab File: VW003457.D

Acq: 23 Jun 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

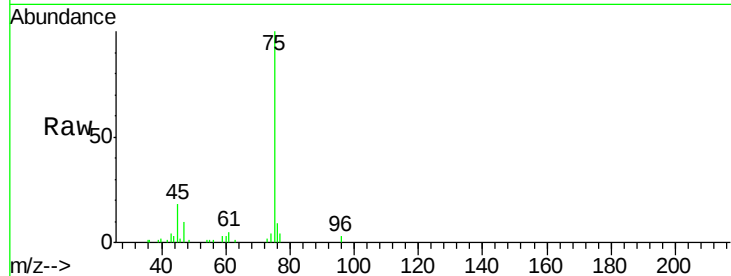
WP021SB472-28-30-180618RE

Tgt Ion: 43 Resp: 782

Ion Ratio Lower Upper

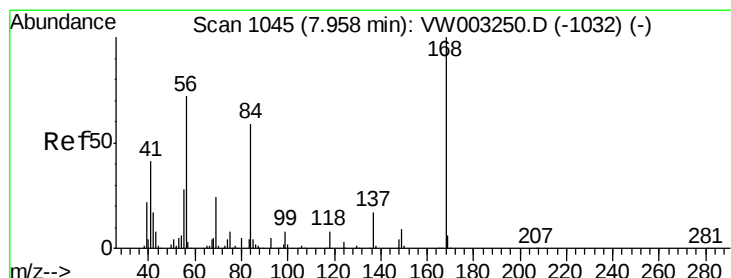
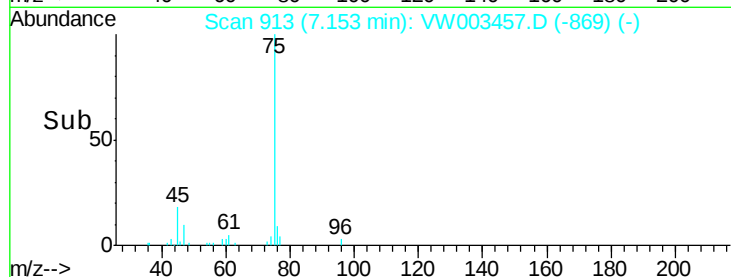
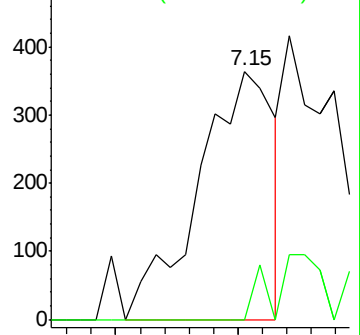
43 100

72 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#31

Cyclohexane

Concen: 1.487 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW003457.D

Acq: 23 Jun 2018 13:53

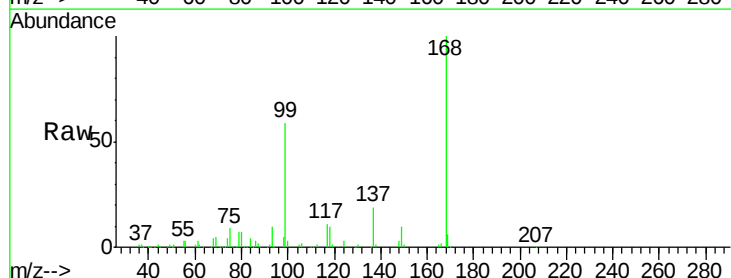
Tgt Ion: 56 Resp: 2873

Ion Ratio Lower Upper

56 100

69 158.7 26.3 39.5#

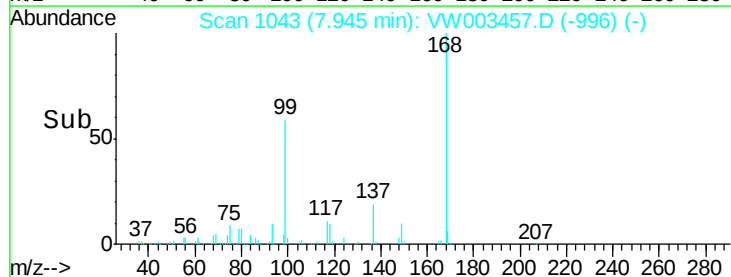
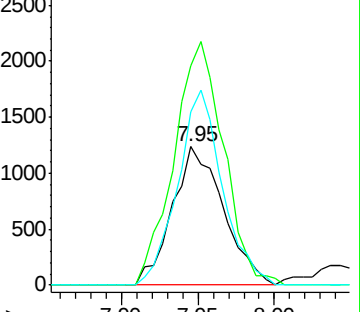
84 125.6 65.7 98.5#

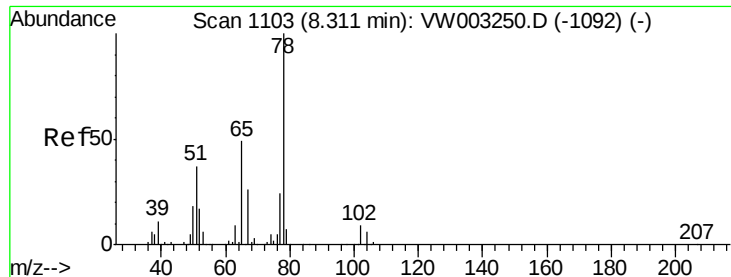


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW





#33

1,2-Dichloroethane-d4

Concen: 43.432 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VW003457.D

Acq: 23 Jun 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

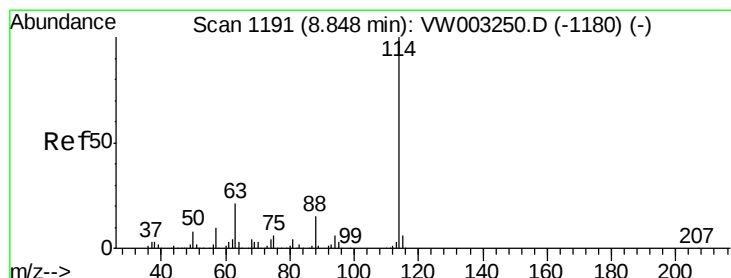
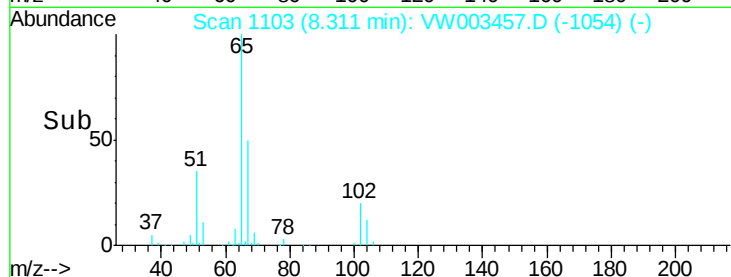
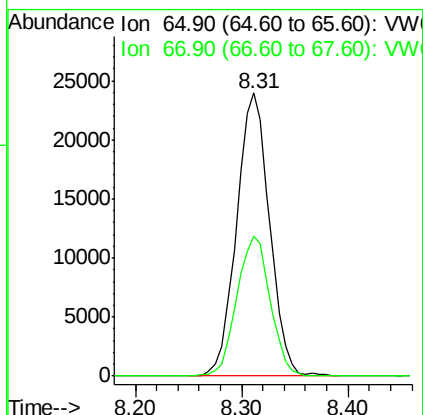
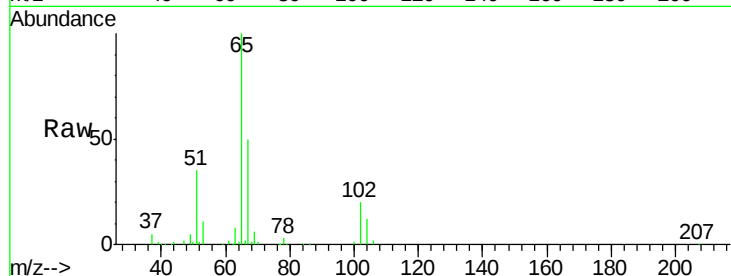
WP021SB472-28-30-180618RE

Tgt Ion: 65 Resp: 51947

Ion Ratio Lower Upper

65 100

67 50.3 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. -0.00 min

Lab File: VW003457.D

Acq: 23 Jun 2018 13:53

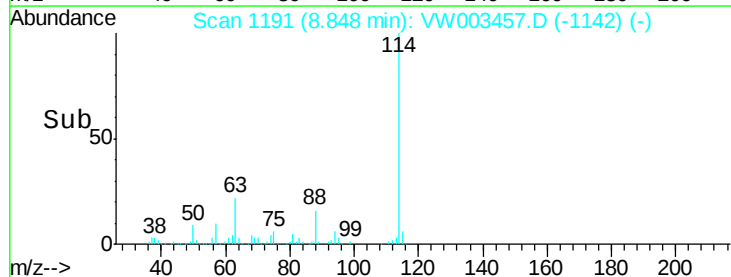
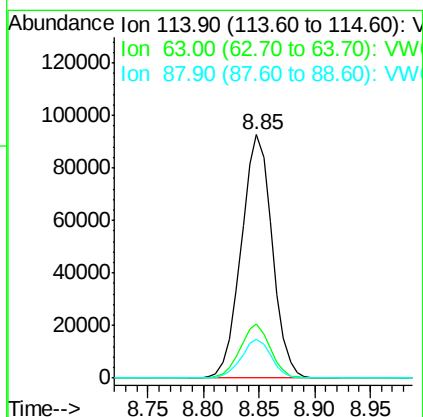
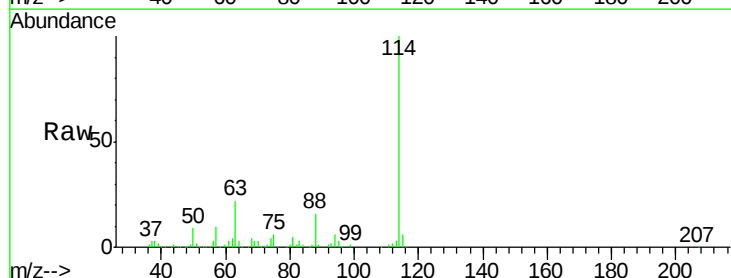
Tgt Ion: 114 Resp: 178635

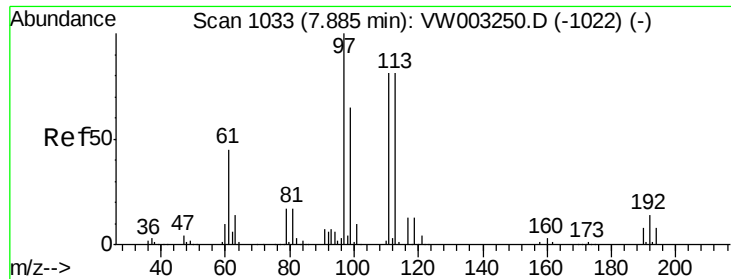
Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.0

88 16.1 0.0 29.6

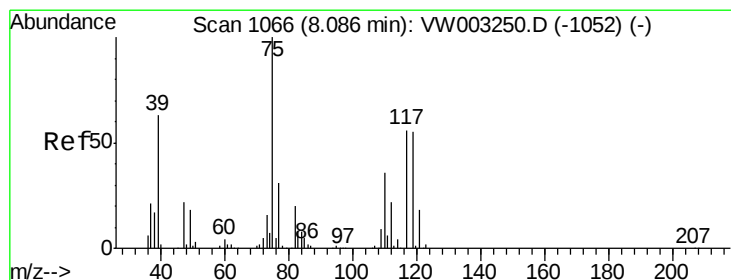
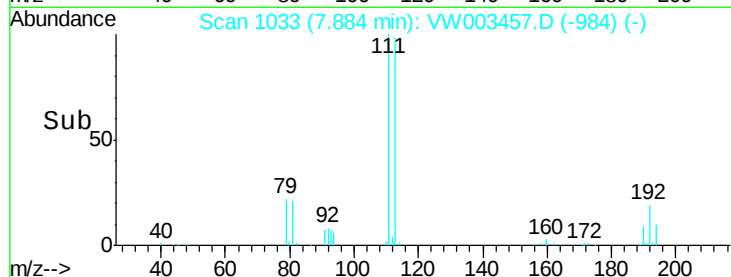
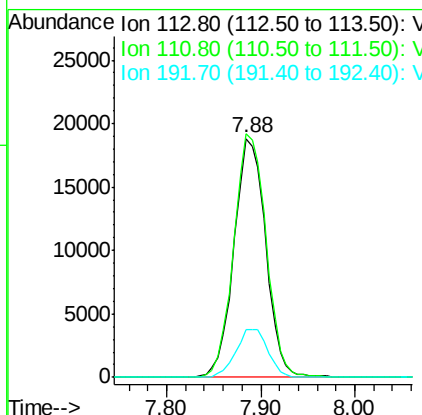
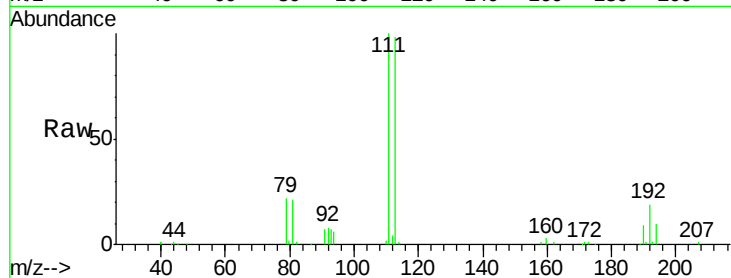




#35  
 Dibromofluoromethane  
 Concen: 39.774 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW003457.D  
 Acq: 23 Jun 2018 13:53

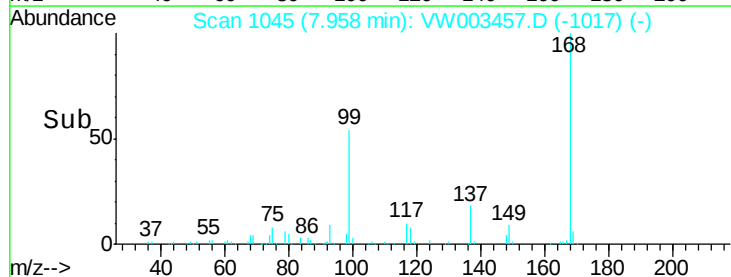
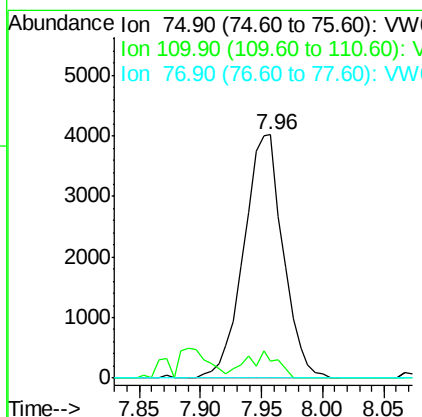
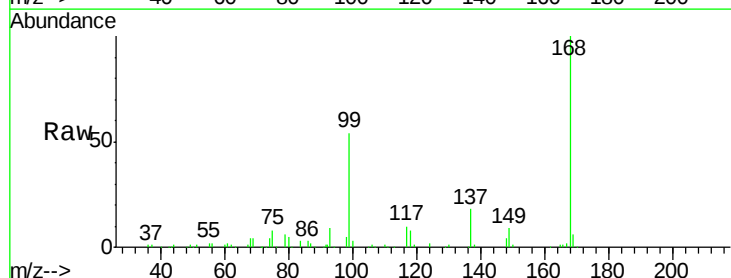
Instrument :  
 MSVOA\_W  
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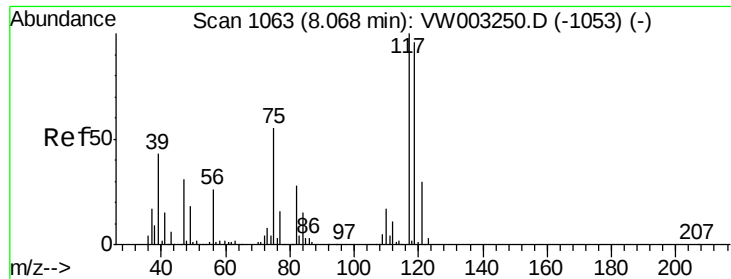
Tgt Ion: 113 Resp: 44149  
 Ion Ratio Lower Upper  
 113 100  
 111 103.8 82.2 123.2  
 192 20.4 16.2 24.2



#36  
 1,1-Dichloropropene  
 Concen: 5.213 ug/l  
 RT: 7.96 min Scan# 1045  
 Delta R.T. -0.13 min  
 Lab File: VW003457.D  
 Acq: 23 Jun 2018 13:53

Tgt Ion: 75 Resp: 8994  
 Ion Ratio Lower Upper  
 75 100  
 110 8.6 17.1 51.3#  
 77 0.0 24.9 37.3#

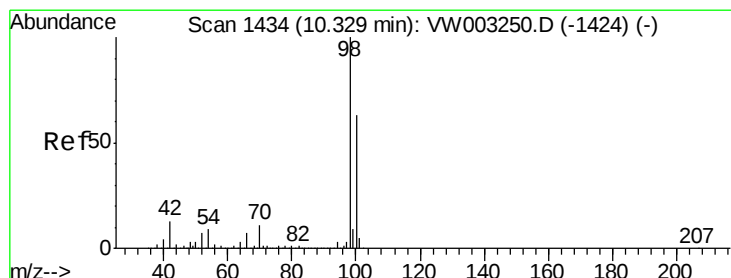
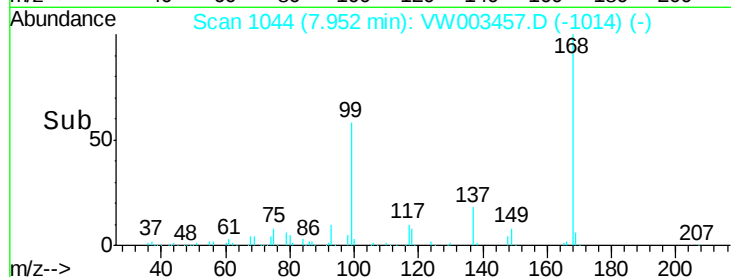
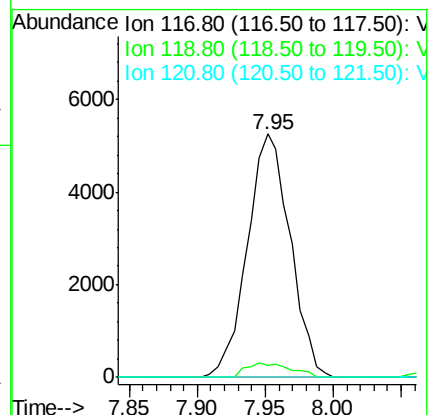
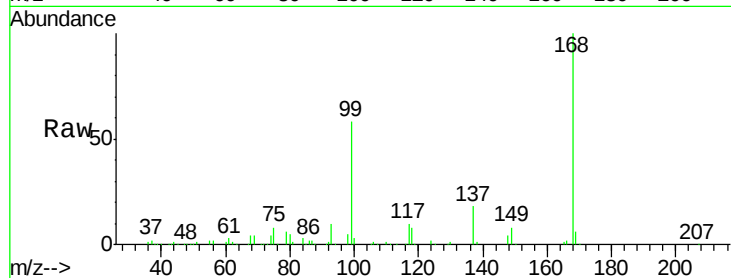




#38  
Carbon Tetrachloride  
Concen: 6.854 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.12 min  
Lab File: VW003457.D  
Acq: 23 Jun 2018 13:53

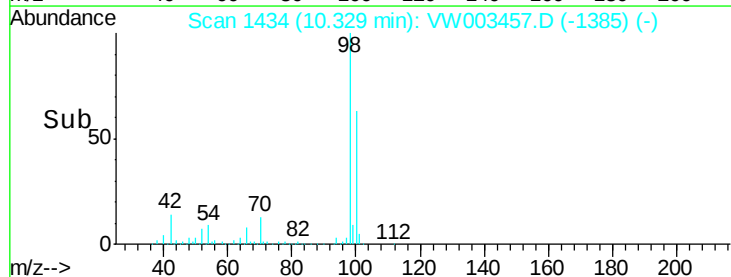
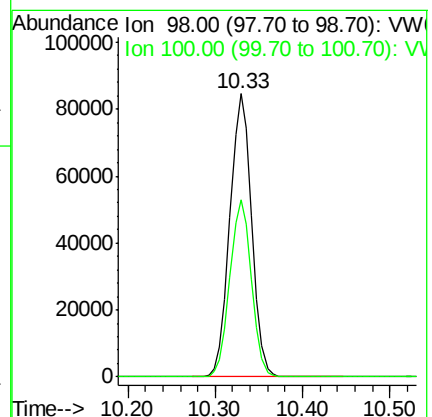
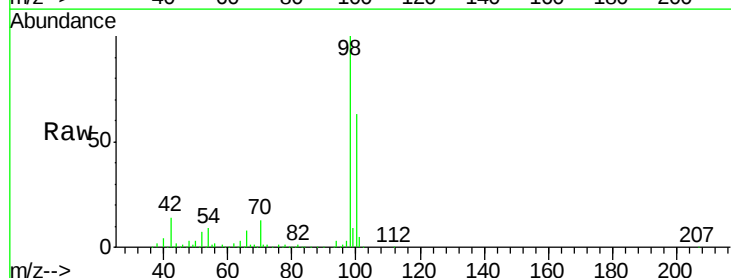
Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB472-28-30-180618RE

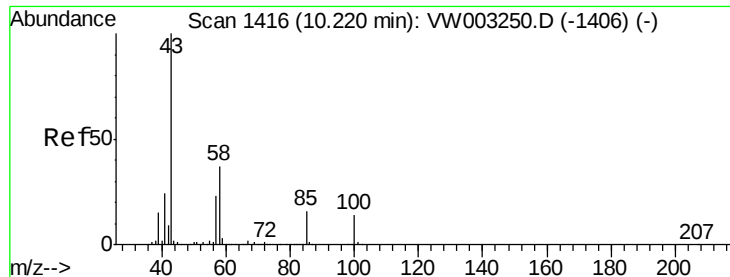
Tgt Ion: 117 Resp: 11598  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.6 115.0#  
121 0.0 23.9 35.9#



#50  
Toluene-d8  
Concen: 33.221 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. -0.00 min  
Lab File: VW003457.D  
Acq: 23 Jun 2018 13:53

Tgt Ion: 98 Resp: 146217  
Ion Ratio Lower Upper  
98 100  
100 61.9 50.8 76.2

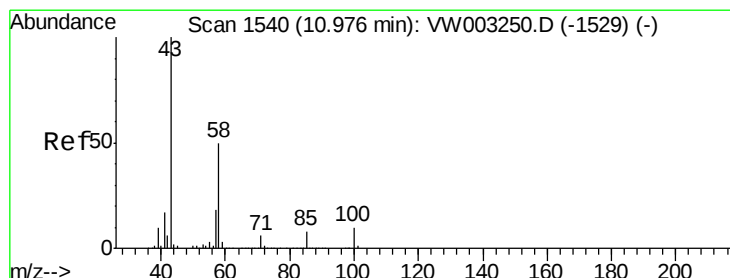
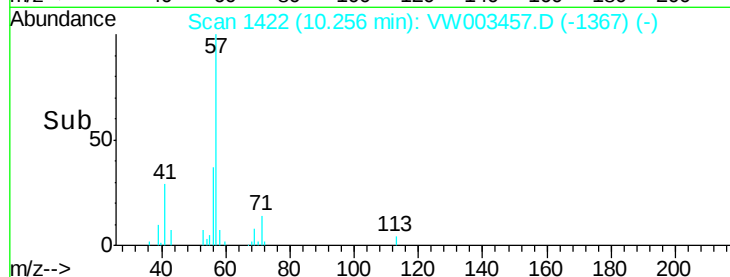
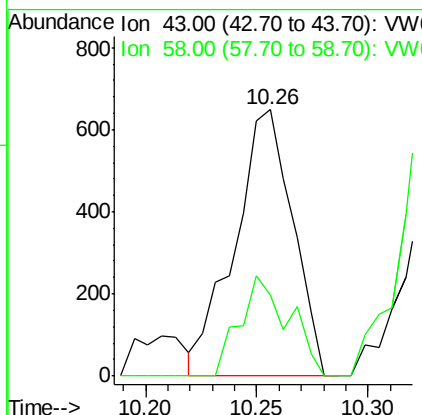
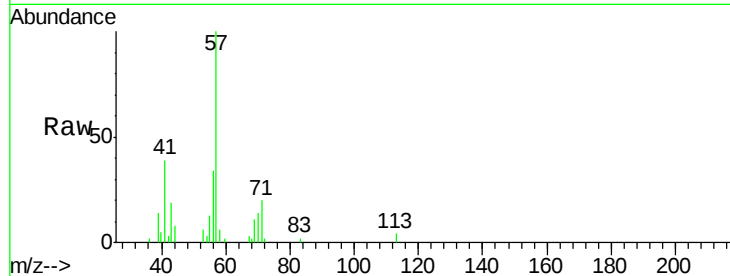




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.626 ug/l  
 RT: 10.26 min Scan# 1422  
 Delta R.T. 0.04 min  
 Lab File: VW003457.D  
 Acq: 23 Jun 2018 13:53

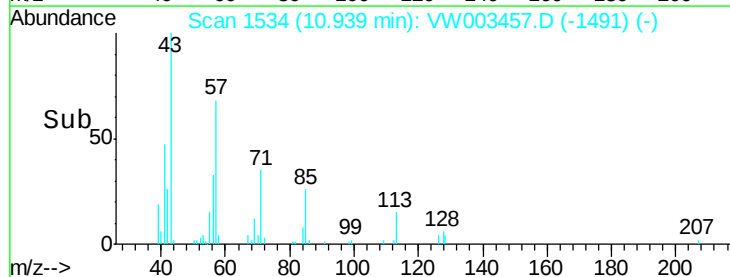
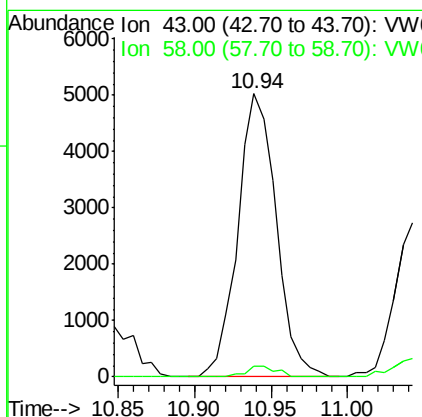
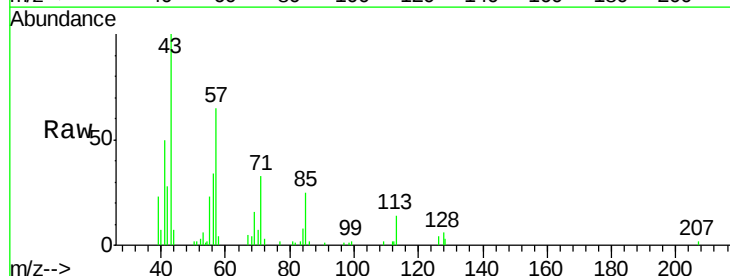
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB472-28-30-180618RE

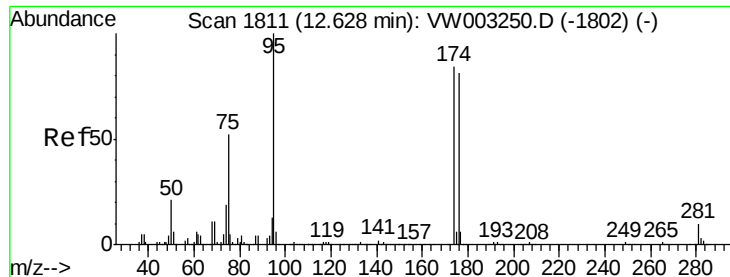
Tgt Ion: 43 Resp: 1176  
 Ion Ratio Lower Upper  
 43 100  
 58 31.8 29.0 43.4



#59  
 2-Hexanone  
 Concen: 17.306 ug/l  
 RT: 10.94 min Scan# 1534  
 Delta R.T. -0.04 min  
 Lab File: VW003457.D  
 Acq: 23 Jun 2018 13:53

Tgt Ion: 43 Resp: 8742  
 Ion Ratio Lower Upper  
 43 100  
 58 3.1 25.0 75.0#





#62

4-Bromofluorobenzene

Concen: 42.066 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW003457.D

Acq: 23 Jun 2018 13:53

Instrument :

MSVOA\_W

ClientSampleId :

WP021SB472-28-30-180618RE

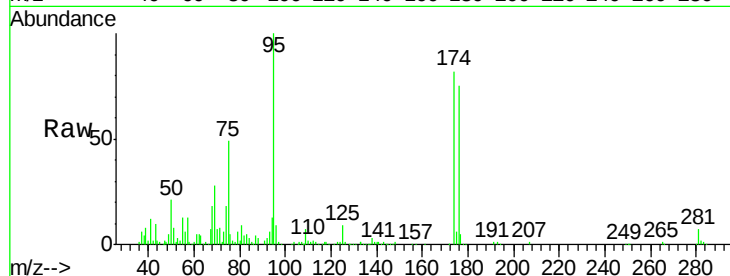
Tgt Ion: 95 Resp: 65521

Ion Ratio Lower Upper

95 100

174 78.2 0.0 166.4

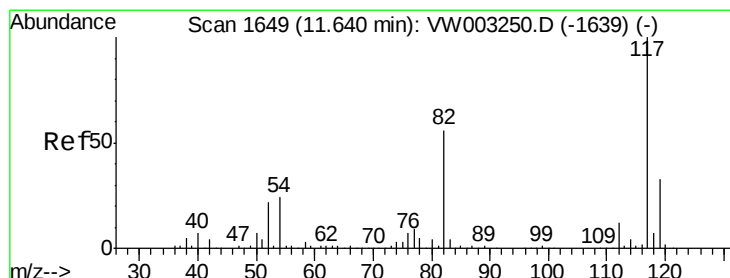
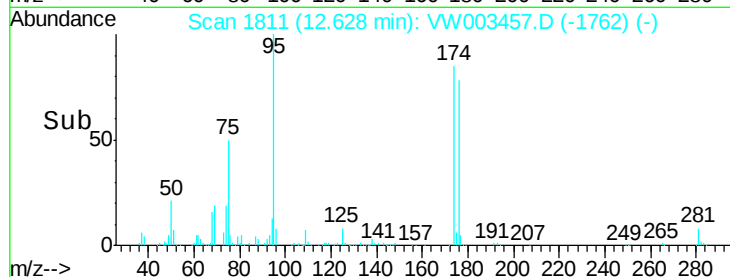
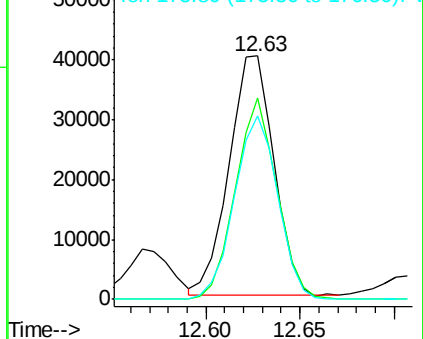
176 74.5 0.0 162.0



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VW003457.D

Acq: 23 Jun 2018 13:53

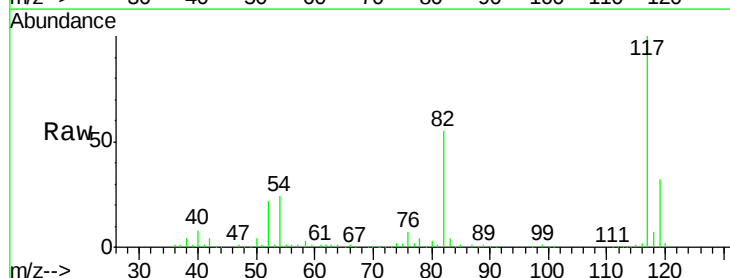
Tgt Ion: 117 Resp: 179319

Ion Ratio Lower Upper

117 100

82 55.2 44.6 67.0

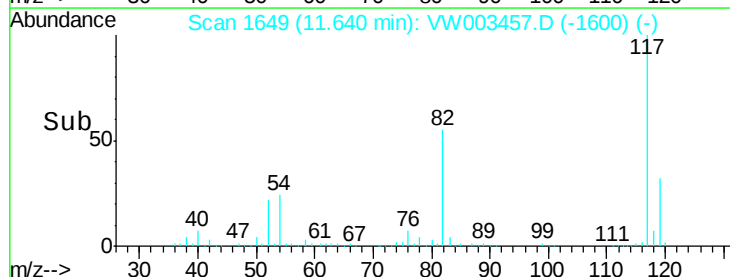
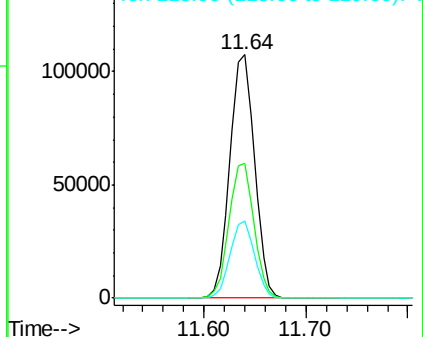
119 31.6 26.7 40.1

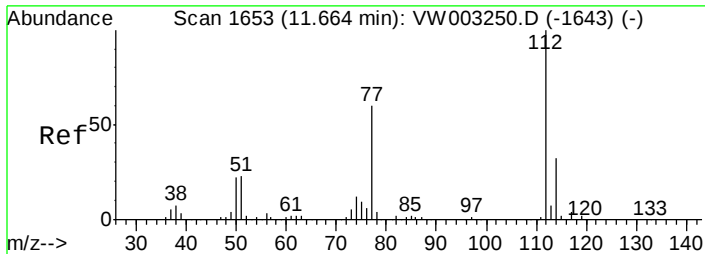


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

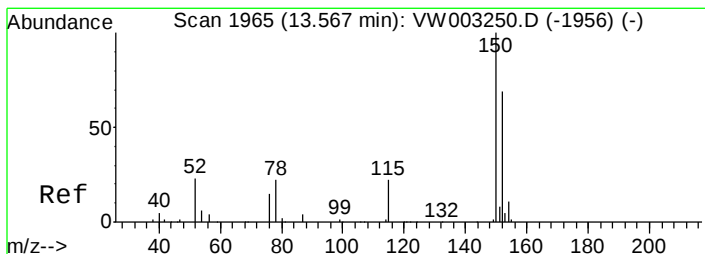
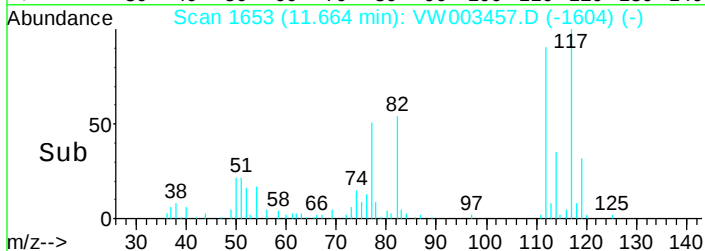
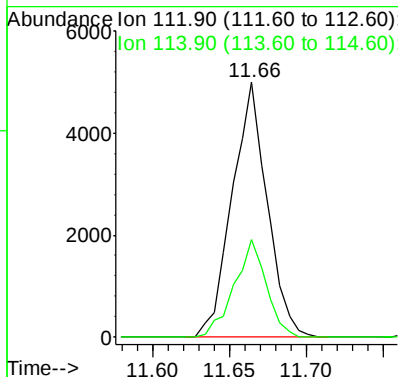
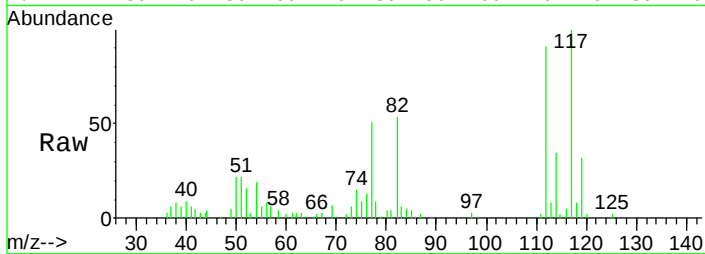




#65  
Chlorobenzene  
Concen: 2.113 ug/l  
RT: 11.66 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VW003457.D  
Acq: 23 Jun 2018 13:53

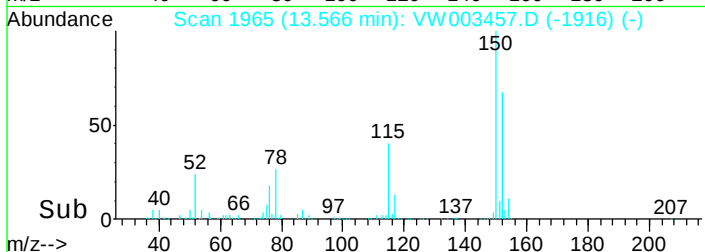
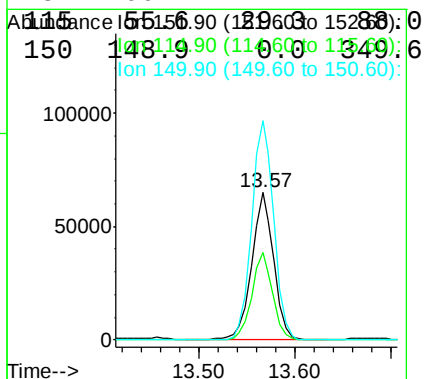
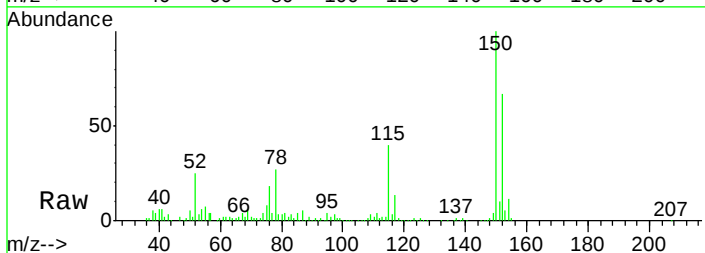
Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB472-28-30-180618RE

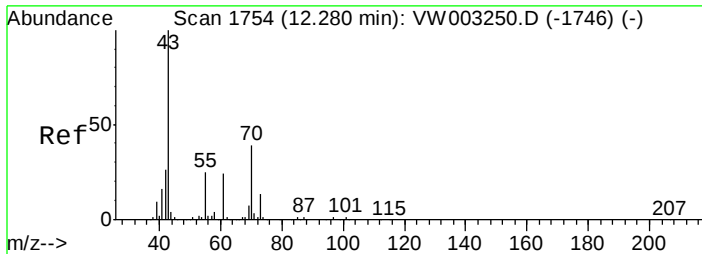
Tgt Ion:112 Resp: 7892  
Ion Ratio Lower Upper  
112 100  
114 38.4 25.9 38.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW003457.D  
Acq: 23 Jun 2018 13:53

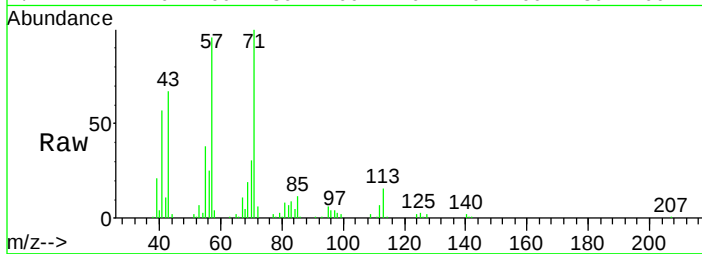
Tgt Ion:152 Resp: 103273  
Ion Ratio Lower Upper  
152 100



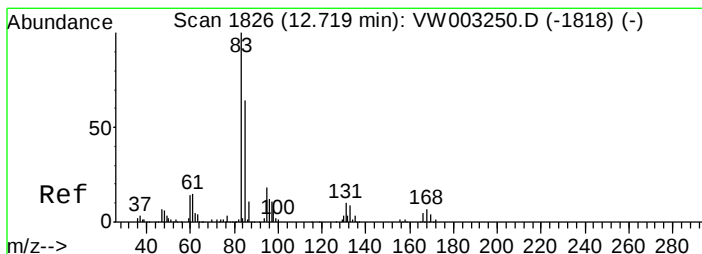
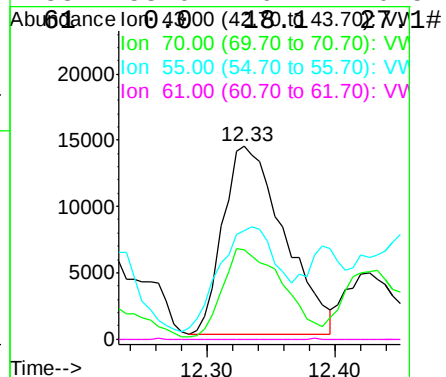
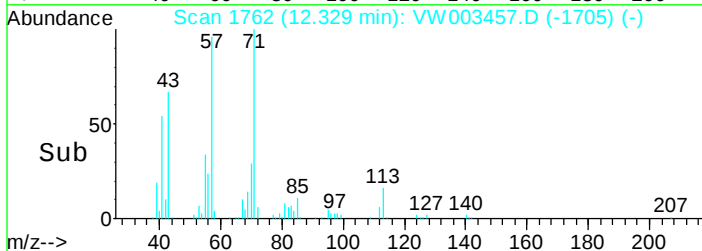


#74  
N-ethyl acetate  
Concen: 28.871 ug/l  
RT: 12.33 min Scan# 1762  
Delta R.T. 0.05 min  
Lab File: VW003457.D  
Acq: 23 Jun 2018 13:53

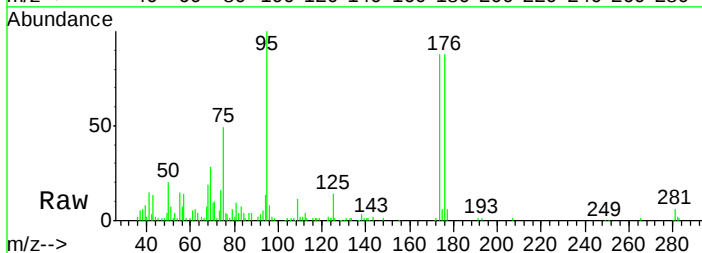
Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB472-28-30-180618RE



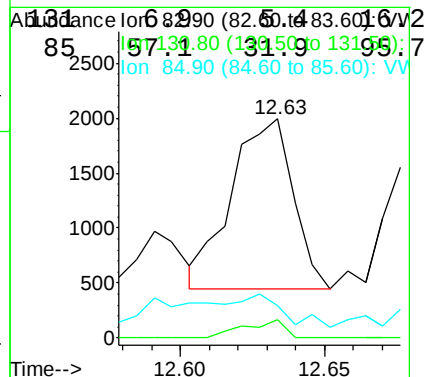
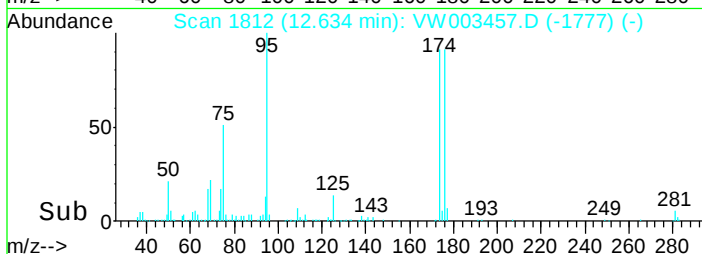
Tgt Ion: 43 Resp: 47202  
Ion Ratio Lower Upper  
43 100  
70 46.1 31.0 46.6  
55 53.0 19.7 29.5#

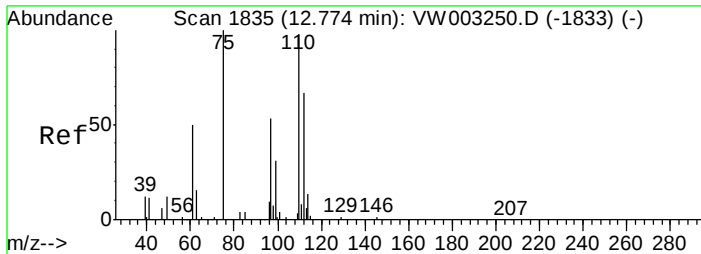


#75  
1,1,2,2-Tetrachloroethane  
Concen: 1.899 ug/l  
RT: 12.63 min Scan# 1812  
Delta R.T. -0.09 min  
Lab File: VW003457.D  
Acq: 23 Jun 2018 13:53



Tgt Ion: 83 Resp: 2308  
Ion Ratio Lower Upper  
83 100

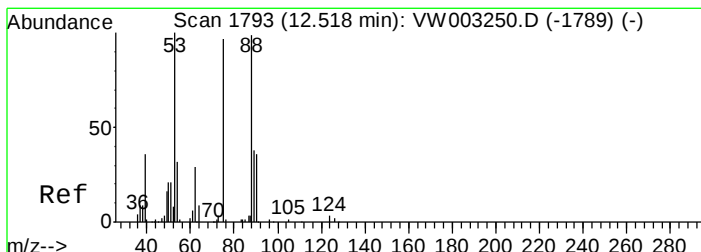
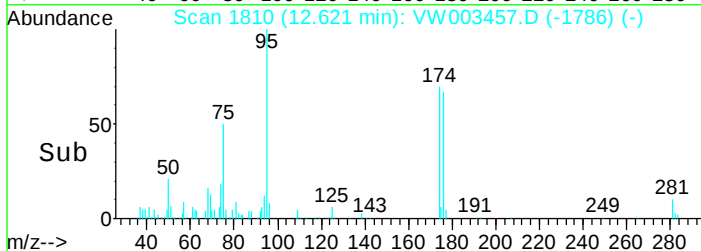
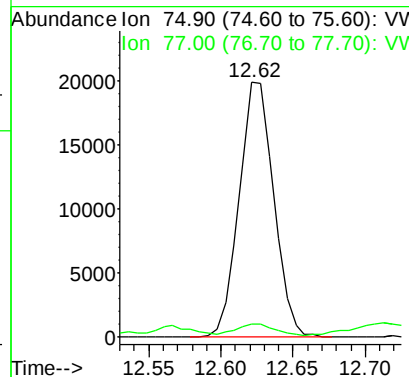
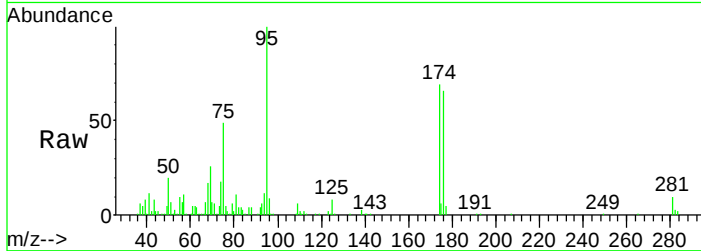




#76  
 1,2,3-Trichloropropane  
 Concen: 37.177 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. -0.15 min  
 Lab File: VW003457.D  
 Acq: 23 Jun 2018 13:53

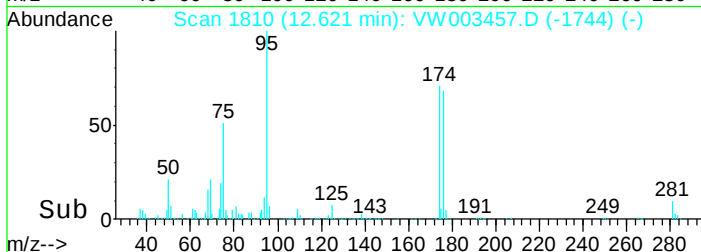
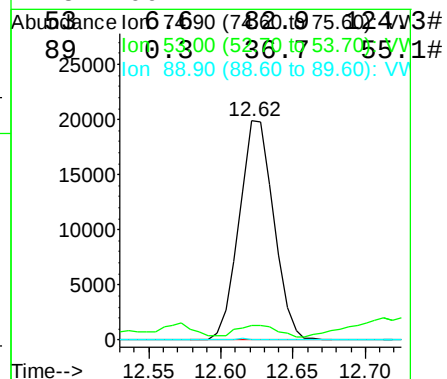
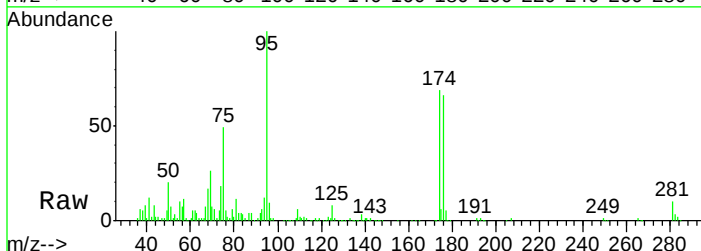
Instrument :  
 MSVOA\_W  
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 WP021SB472-28-30-180618RE

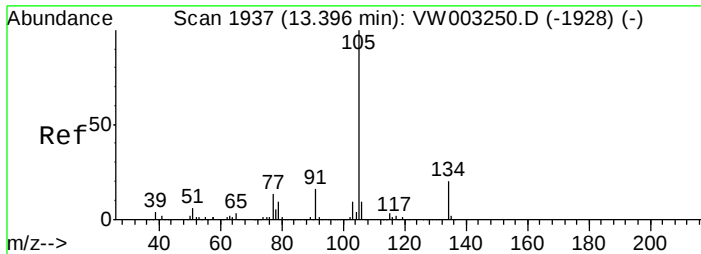
Tgt Ion: 75 Resp: 32822  
 Ion Ratio Lower Upper  
 75 100  
 77 4.7 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 85.546 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. 0.10 min  
 Lab File: VW003457.D  
 Acq: 23 Jun 2018 13:53

Tgt Ion: 75 Resp: 32822  
 Ion Ratio Lower Upper  
 75 100

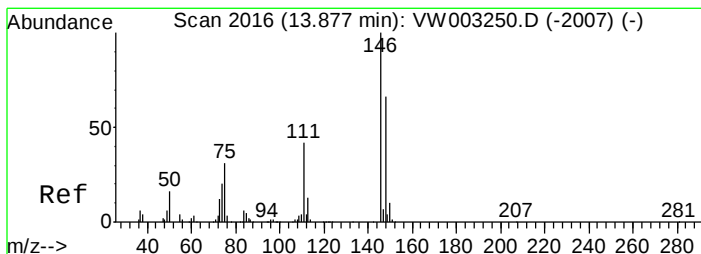
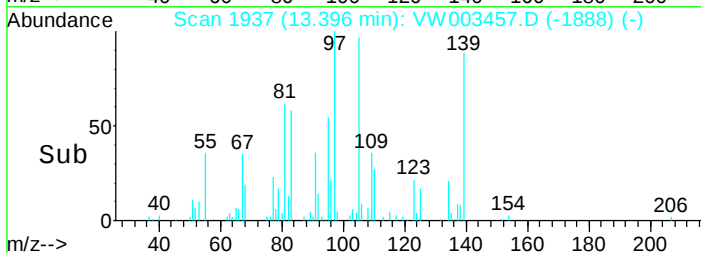
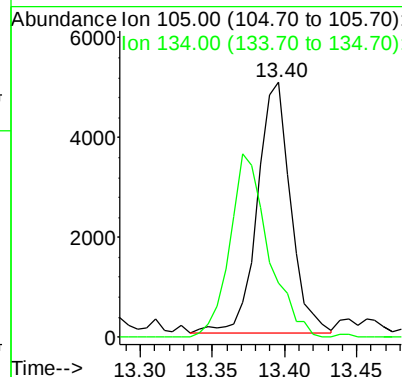
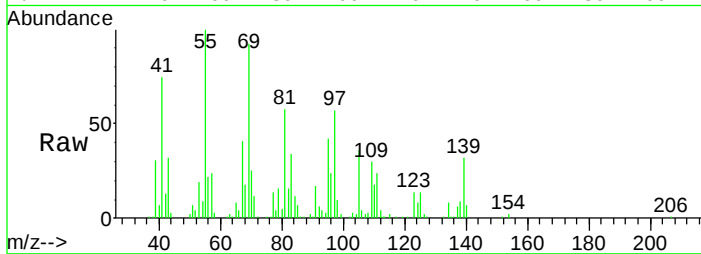




#85  
 sec-Butylbenzene  
 Concen: 1.036 ug/l  
 RT: 13.40 min Scan# 1937  
 Delta R.T. -0.00 min  
 Lab File: VW003457.D  
 Acq: 23 Jun 2018 13:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB472-28-30-180618RE

Tgt Ion:105 Resp: 7912  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 9.8 29.5#



#91  
 1,2-Dichlorobenzene  
 Concen: 4.600 ug/l  
 RT: 13.88 min Scan# 2016  
 Delta R.T. -0.00 min  
 Lab File: VW003457.D  
 Acq: 23 Jun 2018 13:53

Tgt Ion:146 Resp: 13848  
 Ion Ratio Lower Upper  
 146 100

