

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062418\  
 Data File : VW003533.D  
 Acq On : 25 Jun 2018 03:08  
 Operator : SY/AP  
 Sample : J3669-07  
 Misc : 6.29G/5ML/MSVOA W/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB484-35-37-180620

Quant Time: Jun 25 05:55:49 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  | 152456   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 251659   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 224023   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 105389   | 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   | 93912    | 56.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.74% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 79356    | 50.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.50% |          |
| 50) Toluene-d8              | 10.33 | 98   | 267476   | 43.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.28%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 94353    | 43.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.00%  |          |

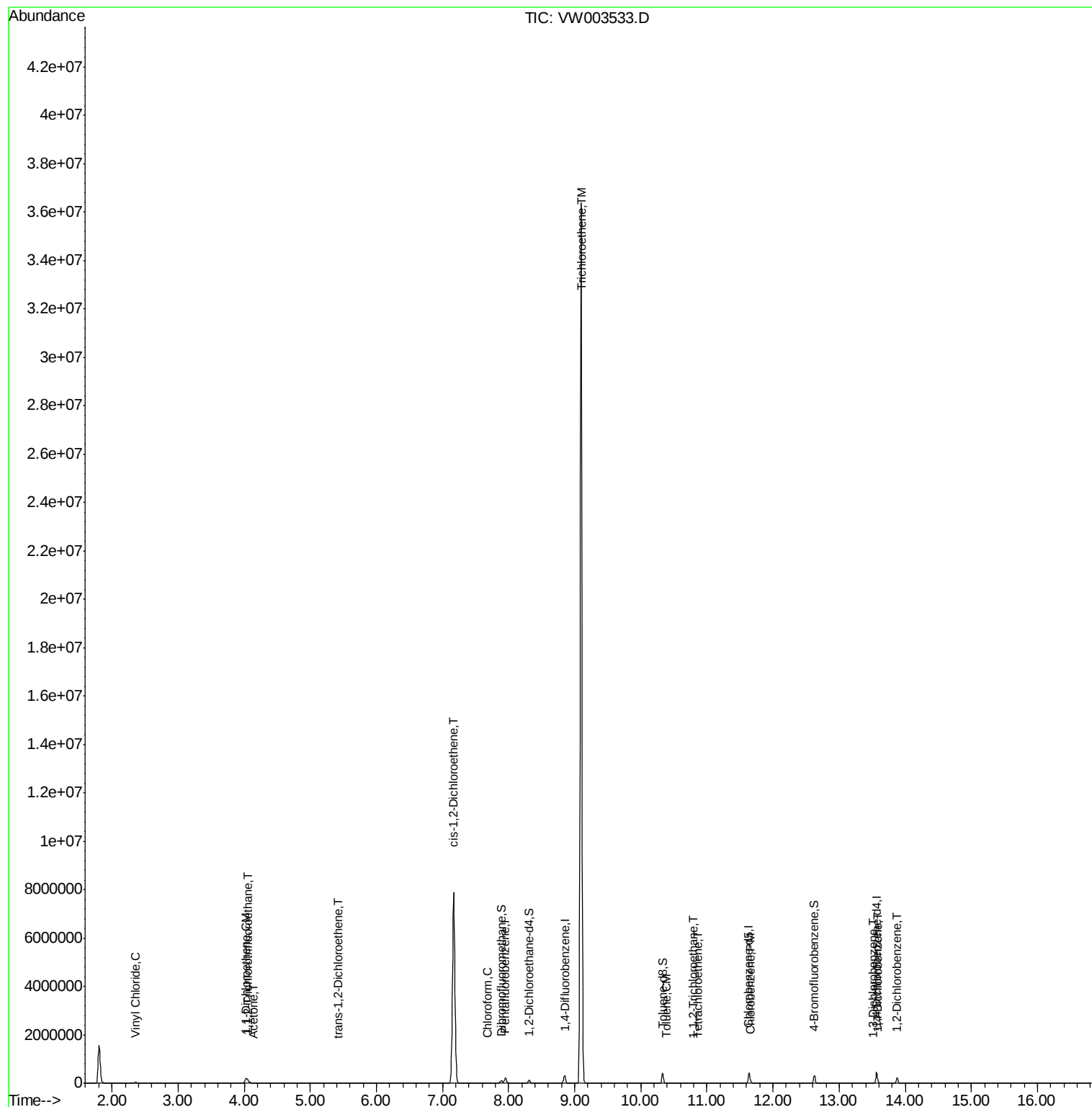
| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 4) Vinyl Chloride             | 2.36  | 62   | 36338    | 21.40   | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06  | 101  | 17497    | 12.39   | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 4.03  | 96   | 110032   | 79.73   | ug/l   | 99     |
| 16) Acetone                   | 4.15  | 43   | 11496    | 33.19   | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.42  | 96   | 3224     | 2.15    | ug/l # | 61     |
| 27) cis-1,2-Dichloroethene    | 7.17  | 96   | 4544102  | 2754.02 | ug/l   | 93     |
| 30) Chloroform                | 7.68  | 83   | 11644    | 4.00    | ug/l   | 98     |
| 44) Trichloroethene           | 9.10  | 130  | 11588815 | 6528.43 | ug/l   | 95     |
| 52) Toluene                   | 10.39 | 92   | 4307     | 1.00    | ug/l   | 96     |
| 55) 1,1,2-Trichloroethane     | 10.79 | 97   | 1646     | 1.34    | ug/l   | 90     |
| 64) Tetrachloroethene         | 10.87 | 164  | 3769     | 2.52    | ug/l   | 91     |
| 65) Chlorobenzene             | 11.66 | 112  | 35122    | 7.53    | ug/l   | 95     |
| 87) 1,3-Dichlorobenzene       | 13.51 | 146  | 5643     | 1.61    | ug/l   | 99     |
| 88) 1,4-Dichlorobenzene       | 13.58 | 146  | 24472    | 7.02    | ug/l   | 94     |
| 91) 1,2-Dichlorobenzene       | 13.88 | 146  | 94310    | 30.70   | ug/l   | 98     |

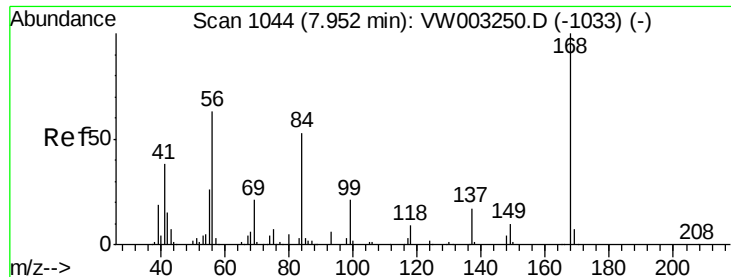
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW062418\  
Data File : VW003533.D  
Acq On : 25 Jun 2018 03:08  
Operator : SY/AP  
Sample : J3669-07  
Misc : 6.29G/5ML/MSVOA W/SOIL  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB484-35-37-180620

Quant Time: Jun 25 05:55:49 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: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

Instrument :

MSVOA\_W

ClientSampleId :

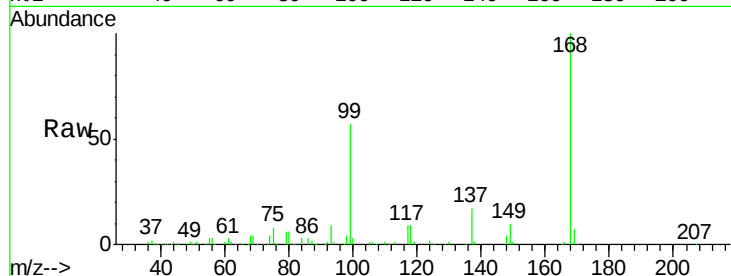
WP021SB484-35-37-180620

Tot Ion:168 Resp: 152456

Ion Ratio Lower Upper

168 100

99 56.9 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

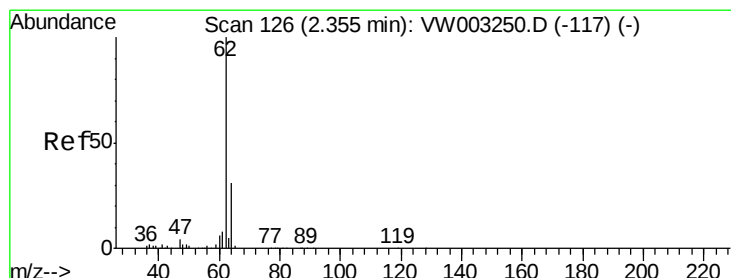
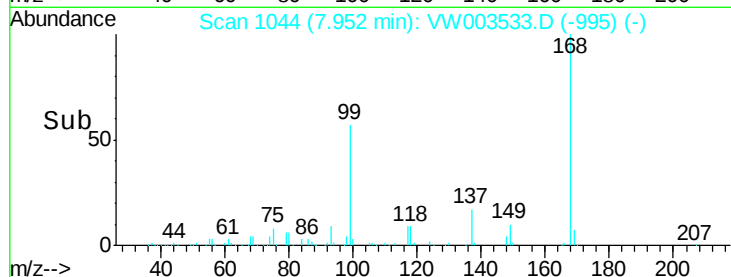
40000

20000

0

7.90 8.00

Time-->



#4

Vinyl Chloride

Concen: 21.40 ug/l

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW003533.D

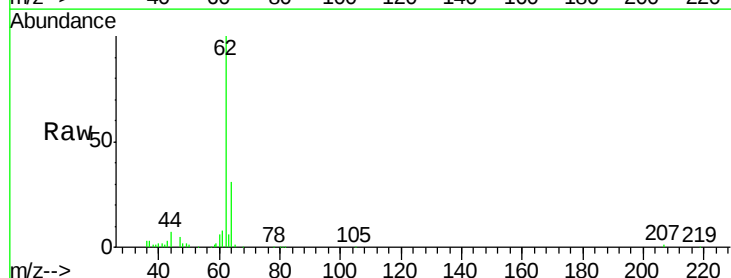
Acq: 25 Jun 2018 03:08

Tgt Ion: 62 Resp: 36338

Ion Ratio Lower Upper

62 100

64 31.0 24.9 37.3



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

20000

15000

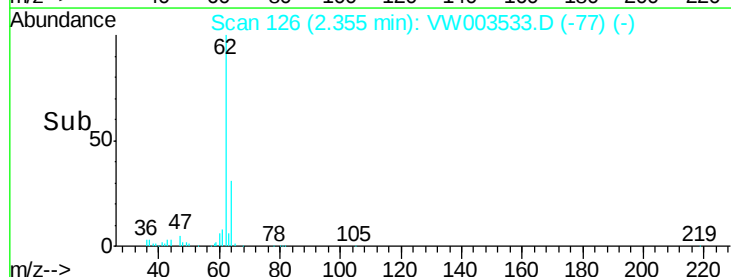
10000

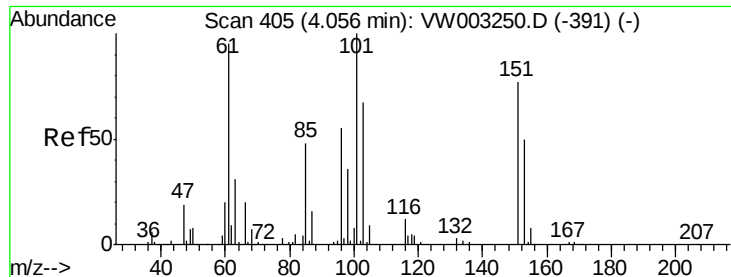
5000

0

2.30 2.40

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 12.39 ug/l

RT: 4.06 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

Instrument :

MSVOA\_W

ClientSampleId :

WP021SB484-35-37-180620

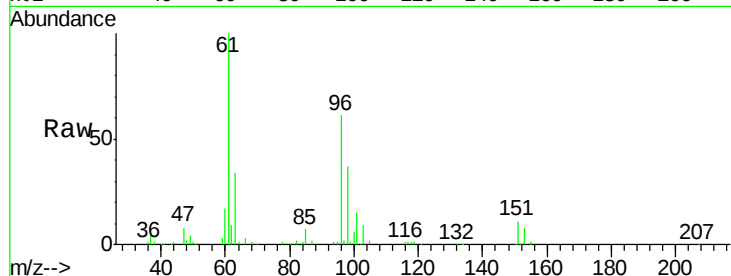
Tot Ion:101 Resp: 17497

Ion Ratio Lower Upper

101 100

85 48.8 37.0 55.6

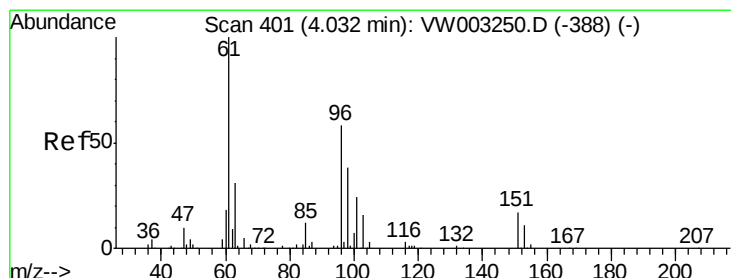
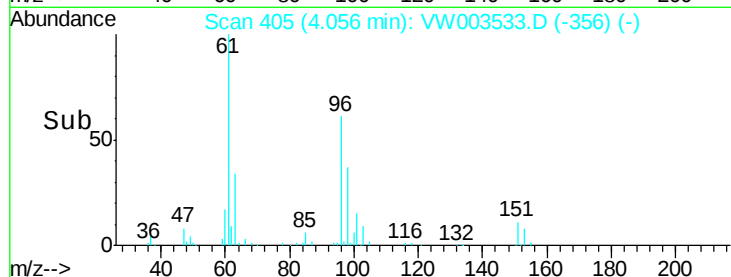
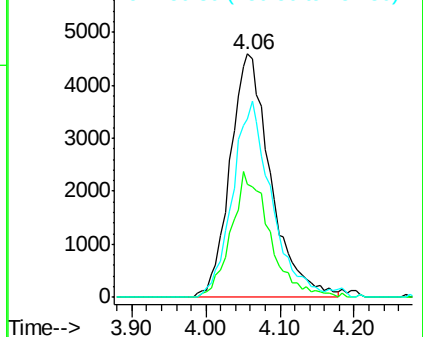
151 77.4 63.3 94.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 79.73 ug/l

RT: 4.03 min Scan# 401

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

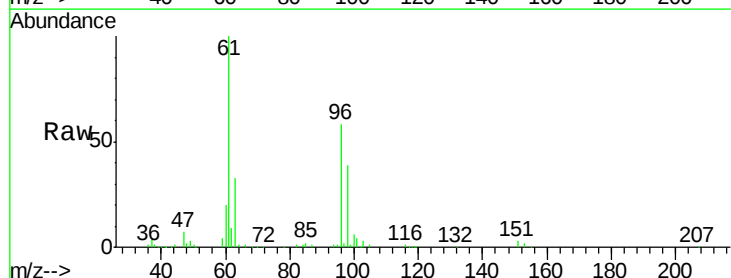
Tgt Ion: 96 Resp: 110032

Ion Ratio Lower Upper

96 100

61 172.2 139.0 208.4

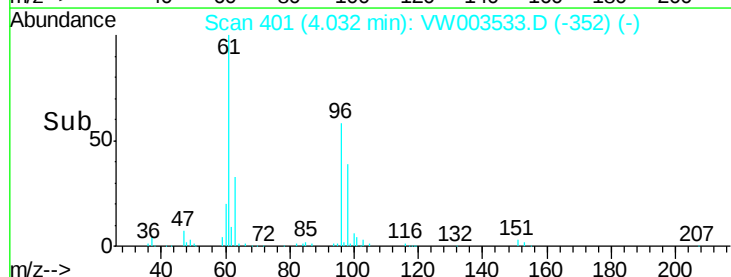
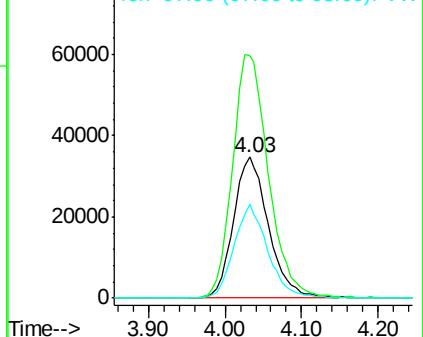
98 66.5 53.3 79.9

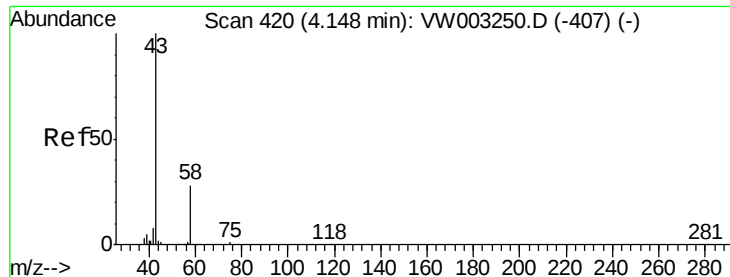


Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW





#16

Acetone

Concen: 33.19 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

Instrument :

MSVOA\_W

ClientSampleId :

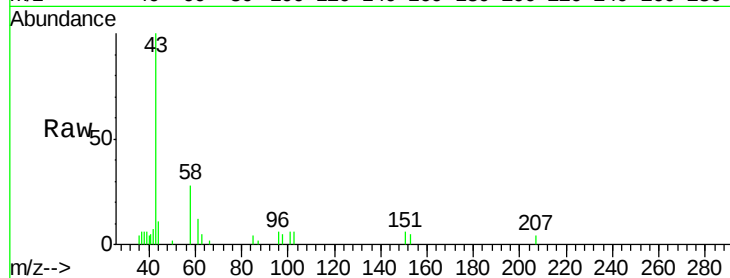
WP021SB484-35-37-180620

Tot Ion: 43 Resp: 11496

Ion Ratio Lower Upper

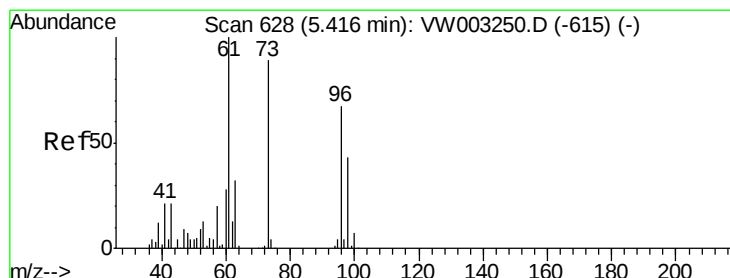
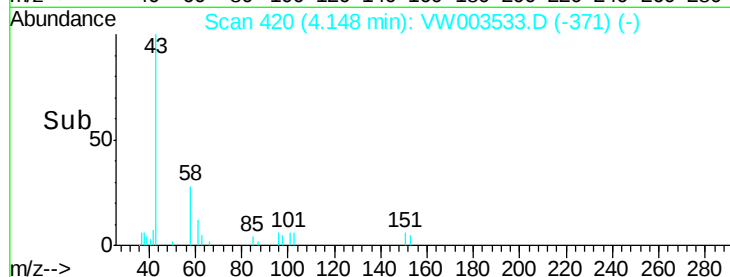
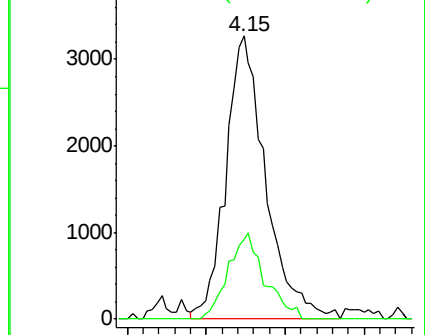
43 100

58 28.0 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#21

trans-1,2-Dichloroethene

Concen: 2.15 ug/l

RT: 5.42 min Scan# 629

Delta R.T. 0.01 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

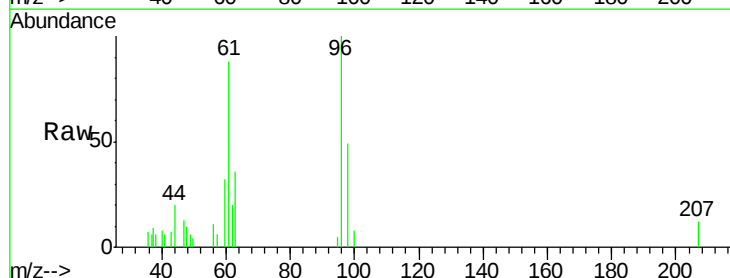
Tgt Ion: 96 Resp: 3224

Ion Ratio Lower Upper

96 100

61 87.8 118.7 178.1#

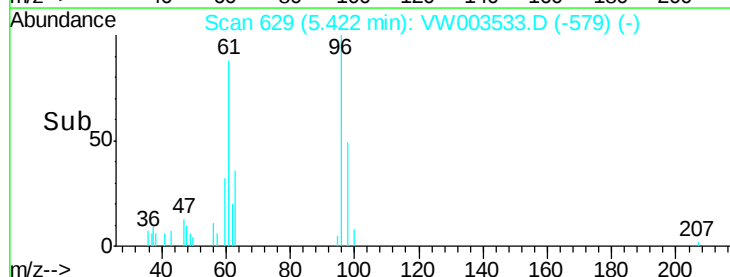
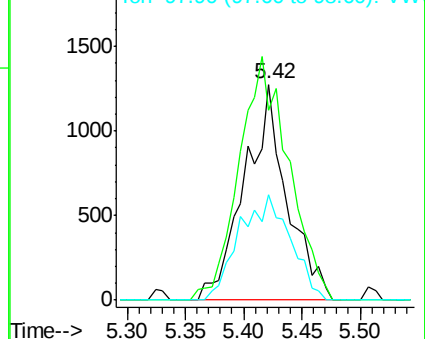
98 48.8 51.0 76.6#

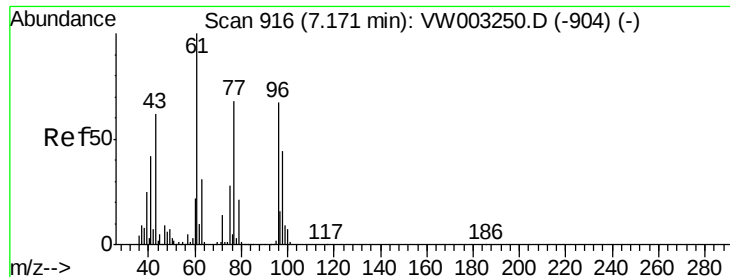


Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



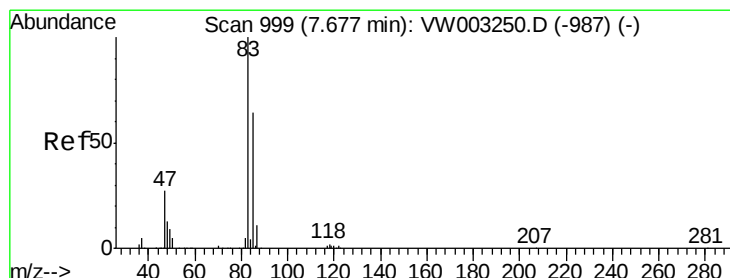
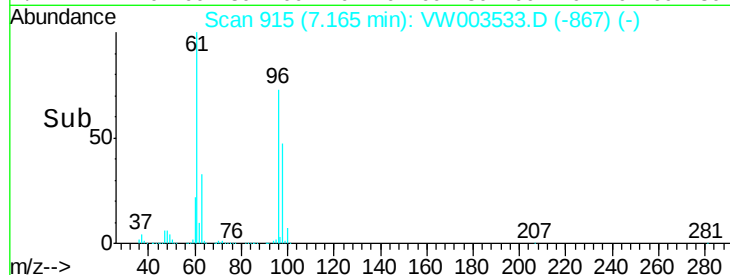
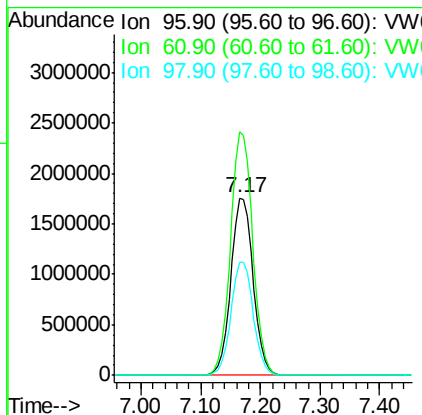
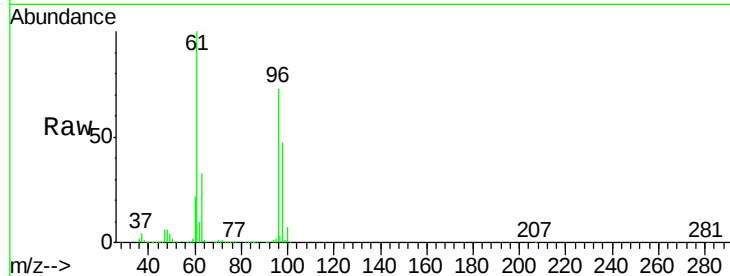


#27

cis-1,2-Dichloroethene  
 Concen: 2754.02 ug/l  
 RT: 7.17 min Scan# 915  
 Delta R.T. -0.01 min  
 Lab File: VW003533.D  
 Acq: 25 Jun 2018 03:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB484-35-37-180620

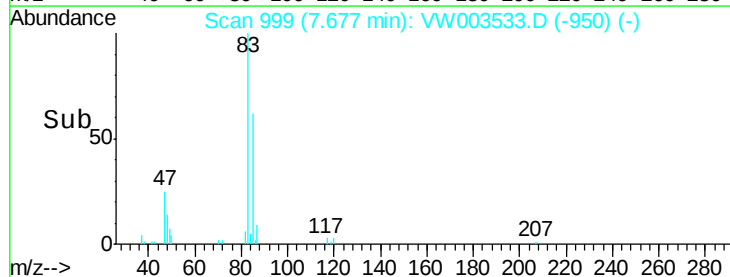
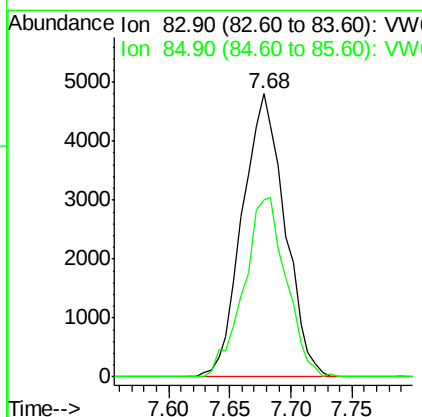
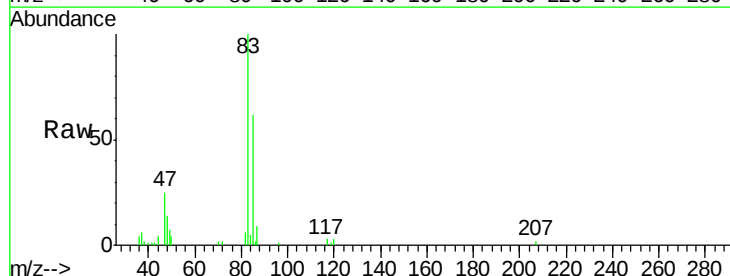
Tot Ion: 96 Resp: 4544102  
 Ion Ratio Lower Upper  
 96 100  
 61 137.1 0.0 298.8  
 98 64.2 0.0 130.4

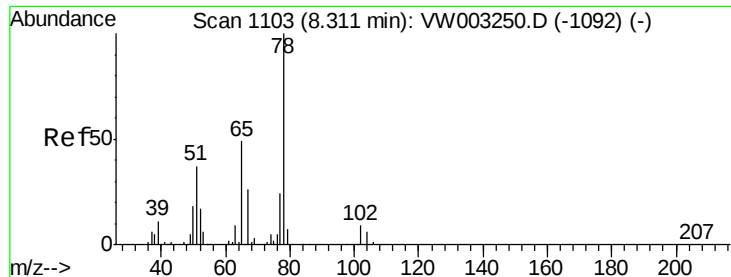


#30

Chloroform  
 Concen: 4.00 ug/l  
 RT: 7.68 min Scan# 999  
 Delta R.T. 0.00 min  
 Lab File: VW003533.D  
 Acq: 25 Jun 2018 03:08

Tgt Ion: 83 Resp: 11644  
 Ion Ratio Lower Upper  
 83 100  
 85 62.5 51.3 76.9





#33

1,2-Dichloroethane-d4

Concen: 56.87 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

Instrument :

MSVOA\_W

ClientSampleId :

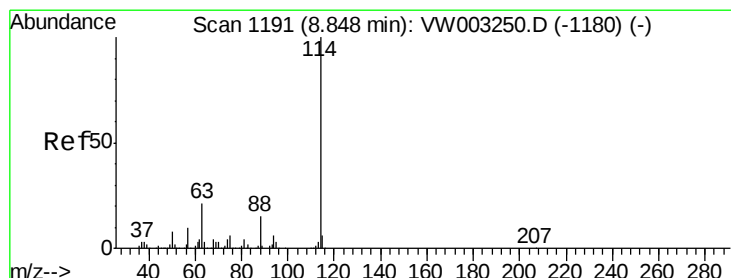
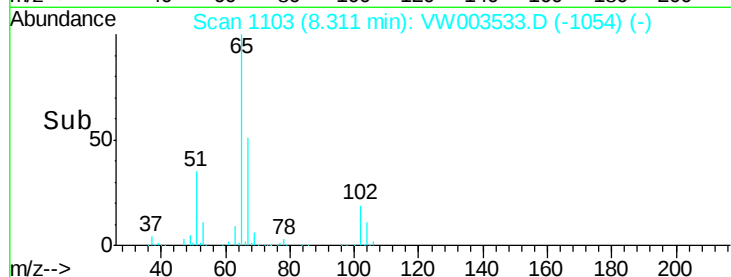
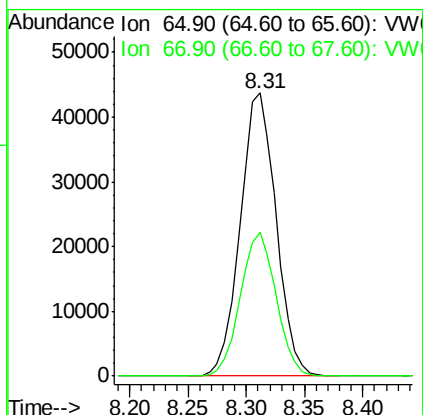
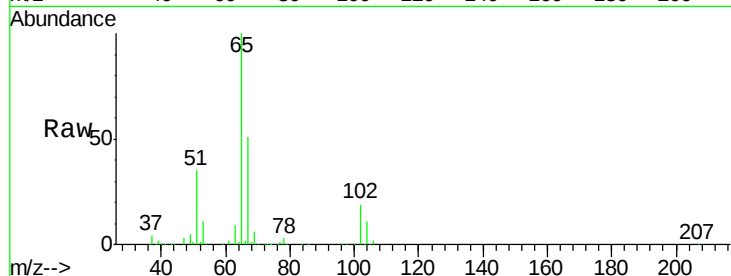
WP021SB484-35-37-180620

Tot Ion: 65 Resp: 93912

Ion Ratio Lower Upper

65 100

67 50.8 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

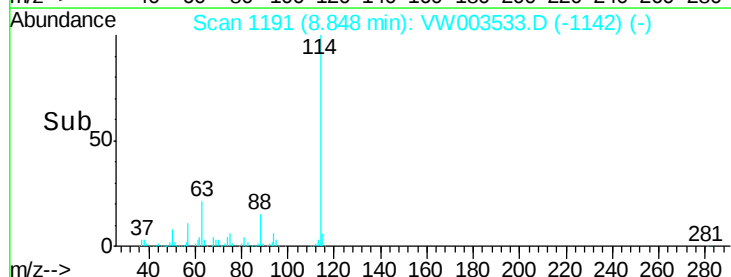
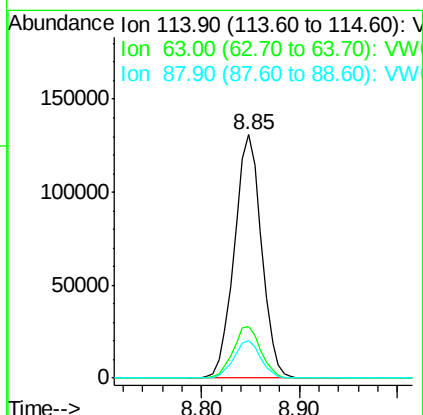
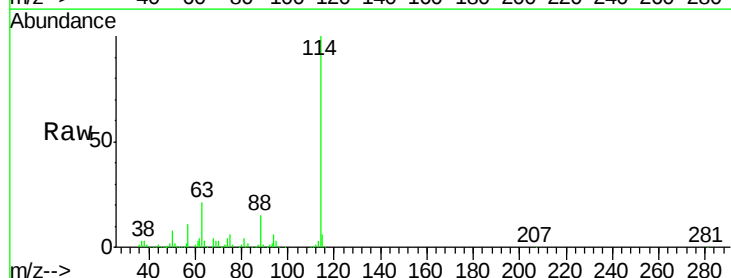
Tgt Ion: 114 Resp: 251659

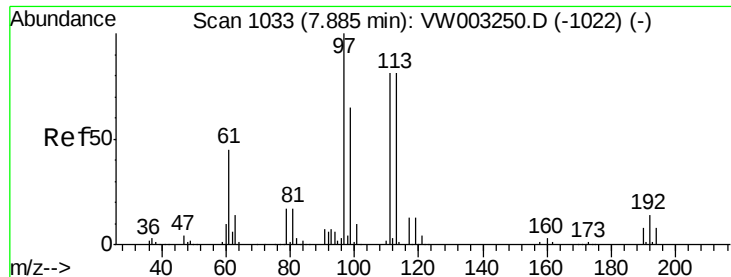
Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.0

88 15.2 0.0 29.6

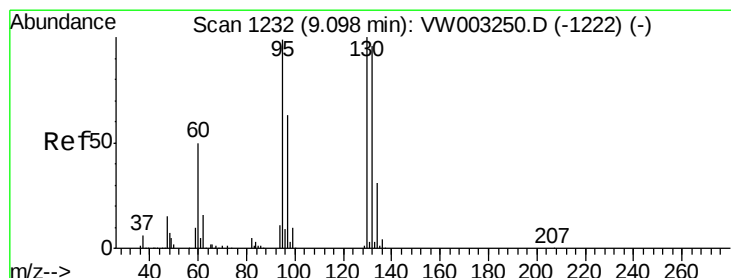
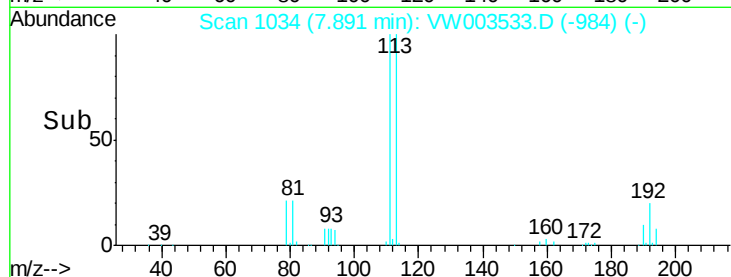
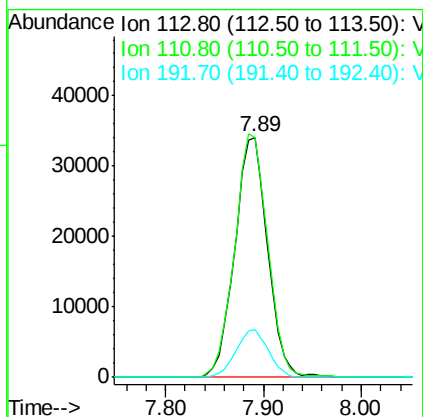
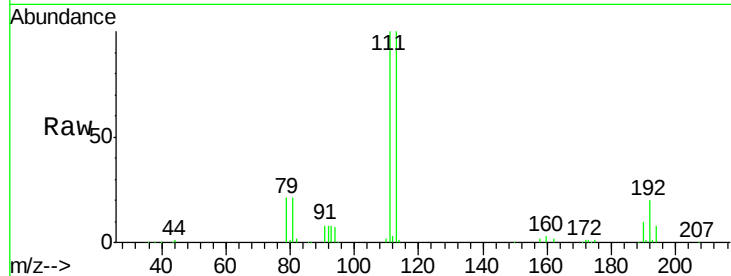




#35  
 Dibromofluoromethane  
 Concen: 50.75 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. 0.01 min  
 Lab File: VW003533.D  
 Acq: 25 Jun 2018 03:08

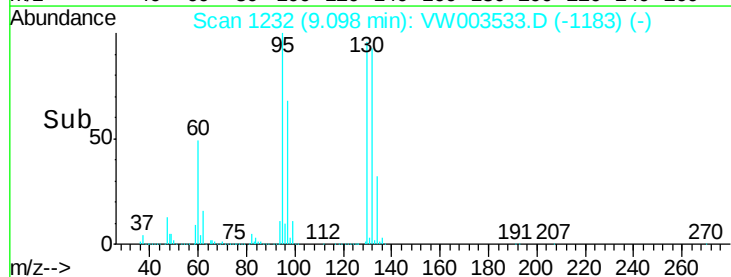
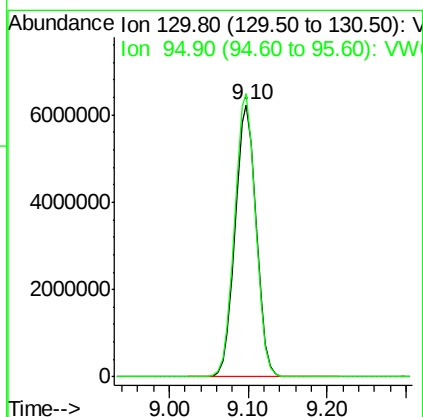
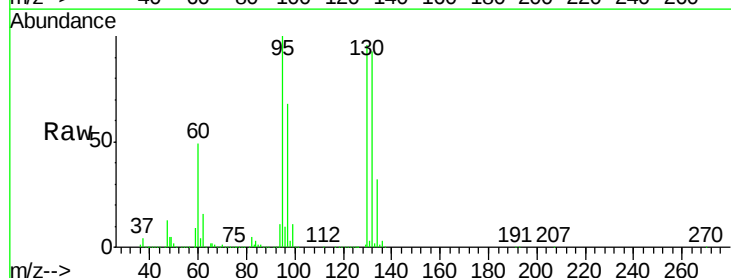
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB484-35-37-180620

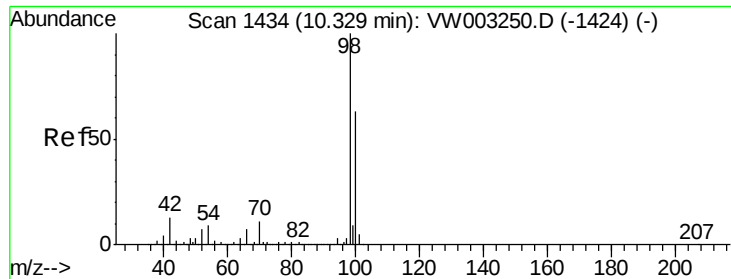
Tot Ion:113 Resp: 79356  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 82.2 123.2  
 192 19.7 16.2 24.2



#44  
 Trichloroethene  
 Concen: 6528.43 ug/l  
 RT: 9.10 min Scan# 1232  
 Delta R.T. 0.00 min  
 Lab File: VW003533.D  
 Acq: 25 Jun 2018 03:08

Tgt Ion:130 Resp:11588815  
 Ion Ratio Lower Upper  
 130 100  
 95 103.9 0.0 198.0

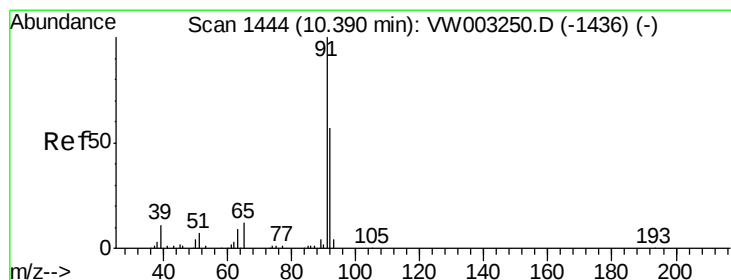
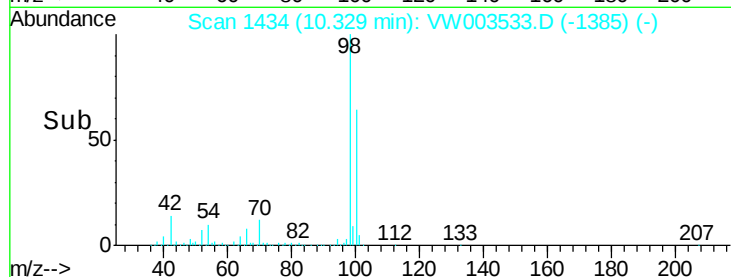
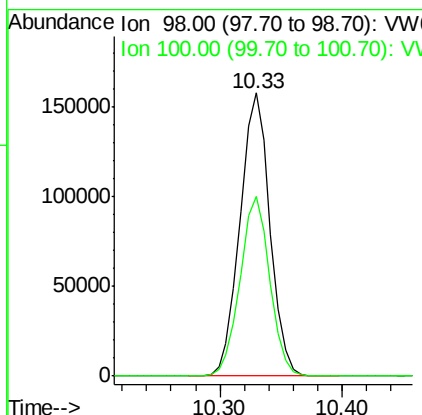
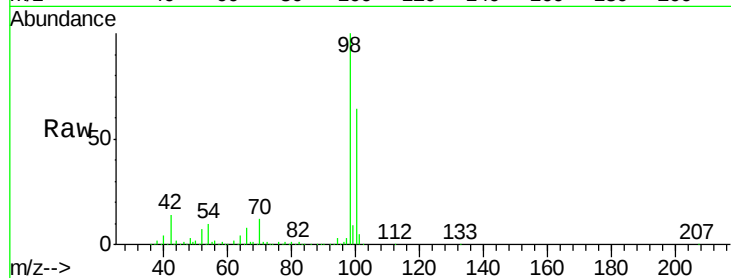




#50  
Toluene-d8  
Concen: 43.14 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. 0.00 min  
Lab File: VW003533.D  
Acq: 25 Jun 2018 03:08

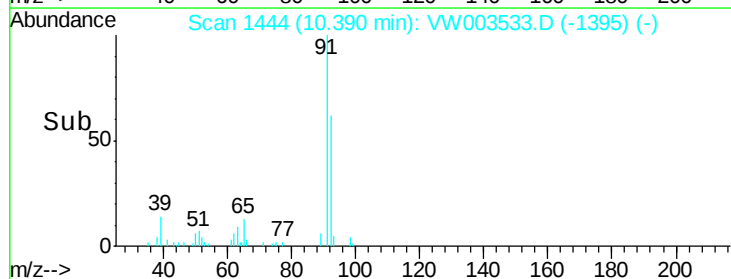
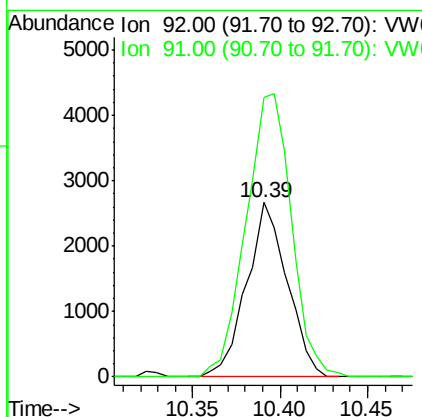
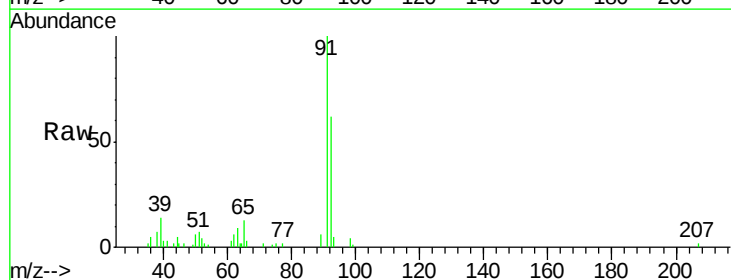
Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB484-35-37-180620

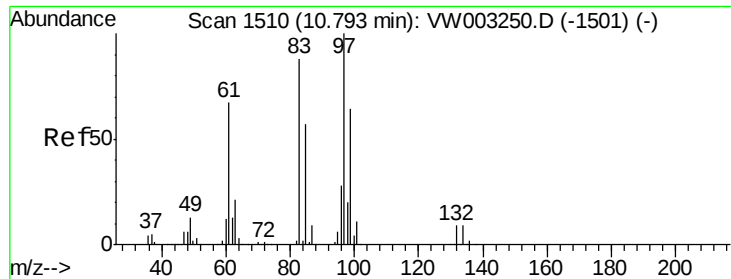
Tot Ion: 98 Resp: 267476  
Ion Ratio Lower Upper  
98 100  
100 63.2 50.8 76.2



#52  
Toluene  
Concen: 1.00 ug/l  
RT: 10.39 min Scan# 1444  
Delta R.T. 0.00 min  
Lab File: VW003533.D  
Acq: 25 Jun 2018 03:08

Tgt Ion: 92 Resp: 4307  
Ion Ratio Lower Upper  
92 100  
91 181.7 141.1 211.7

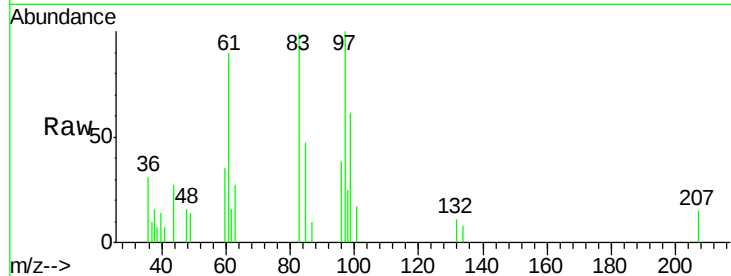




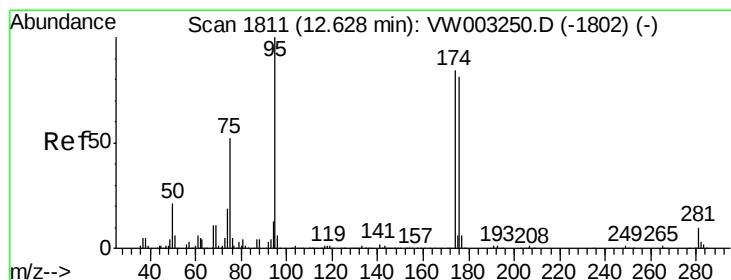
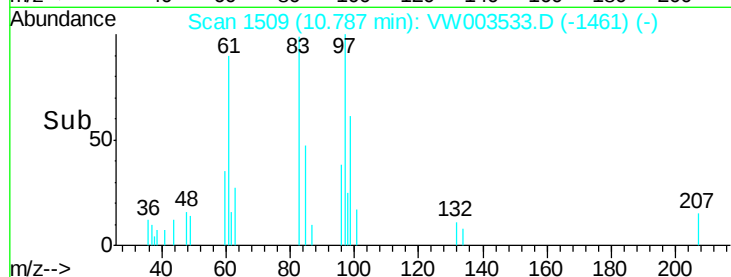
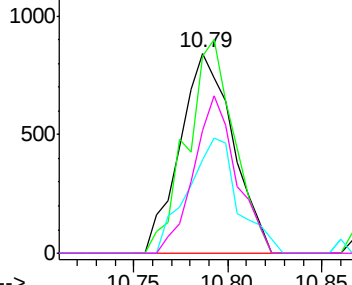
#55  
 1,1,2-Trichloroethane  
 Concen: 1.34 ug/l  
 RT: 10.79 min Scan# 1509  
 Delta R.T. -0.01 min  
 Lab File: VW003533.D  
 Acq: 25 Jun 2018 03:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB484-35-37-180620

Tot Ion: 97 Resp: 1646  
 Ion Ratio Lower Upper  
 97 100  
 83 98.7 70.2 105.2  
 85 46.7 45.6 68.4  
 99 61.4 51.2 76.8

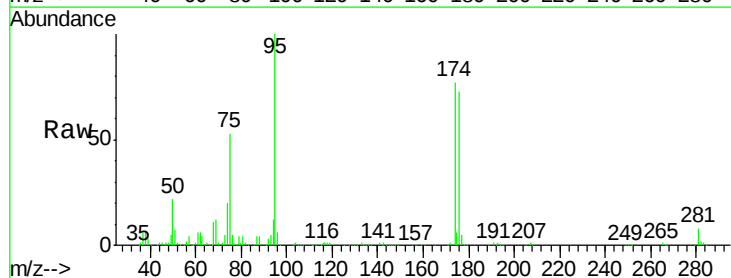


Abundance Ion 96.90 (96.60 to 97.60): VW  
 Ion 82.90 (82.60 to 83.60): VW  
 Ion 84.90 (84.60 to 85.60): VW  
 Ion 98.90 (98.60 to 99.60): VW

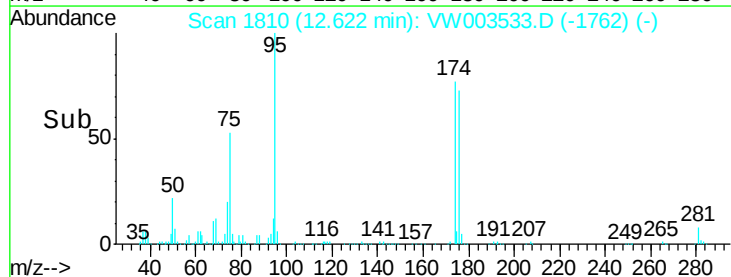
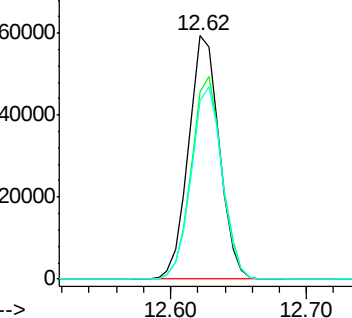


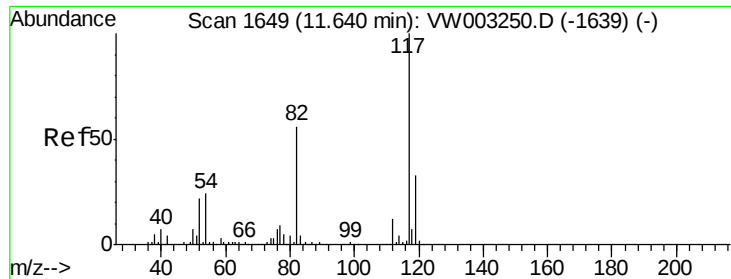
#62  
 4-Bromofluorobenzene  
 Concen: 43.00 ug/l  
 RT: 12.62 min Scan# 1810  
 Delta R.T. -0.01 min  
 Lab File: VW003533.D  
 Acq: 25 Jun 2018 03:08

Tgt Ion: 95 Resp: 94353  
 Ion Ratio Lower Upper  
 95 100  
 174 83.2 0.0 166.4  
 176 79.4 0.0 162.0



Abundance Ion 94.90 (94.60 to 95.60): VW  
 Ion 173.80 (173.50 to 174.50): V  
 Ion 175.80 (175.50 to 176.50): V

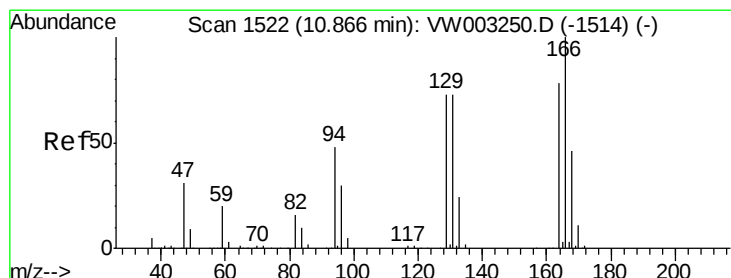
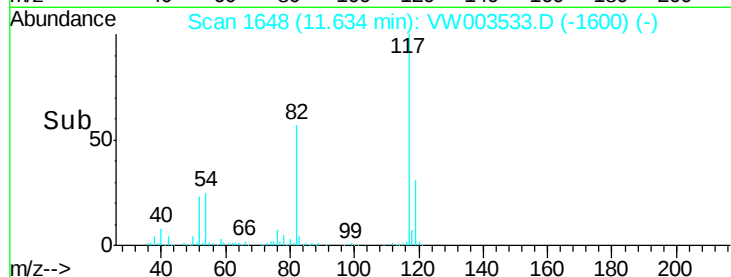
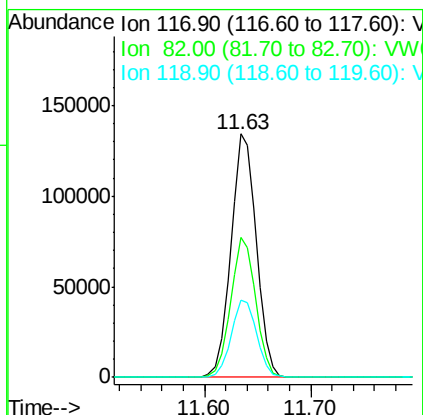
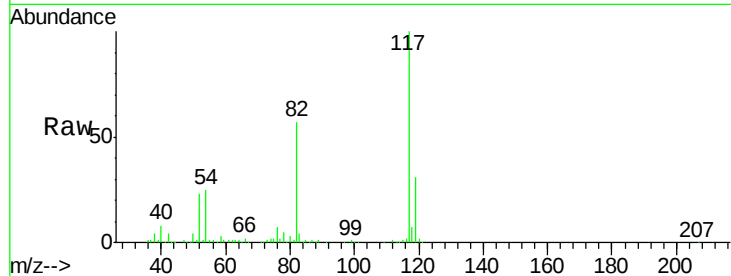




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.01 min  
Lab File: VW003533.D  
Acq: 25 Jun 2018 03:08

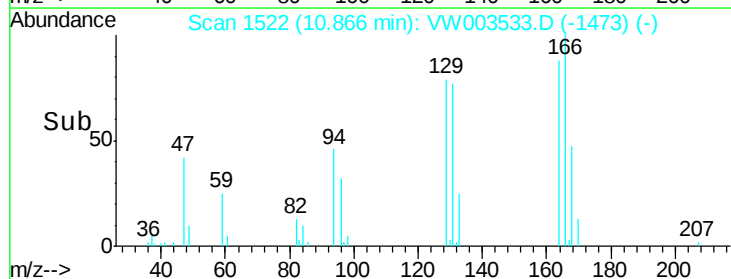
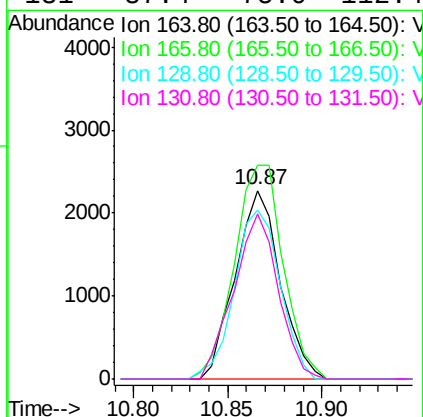
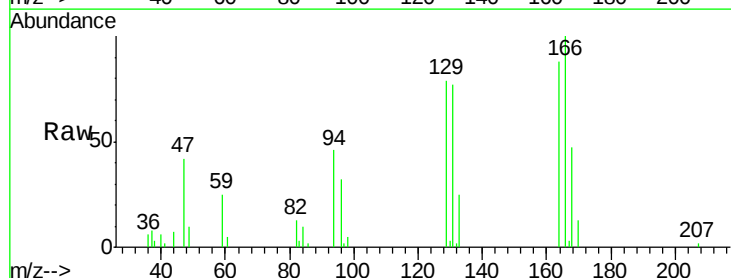
Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB484-35-37-180620

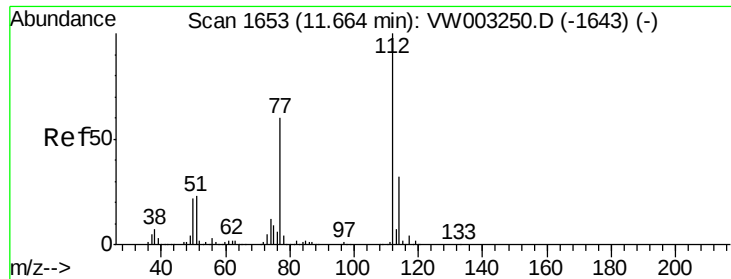
Tot Ion:117 Resp: 224023  
Ion Ratio Lower Upper  
117 100  
82 57.2 44.6 67.0  
119 31.5 26.7 40.1



#64  
Tetrachloroethene  
Concen: 2.52 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. 0.00 min  
Lab File: VW003533.D  
Acq: 25 Jun 2018 03:08

Tgt Ion:164 Resp: 3769  
Ion Ratio Lower Upper  
164 100  
166 113.3 102.6 154.0  
129 89.3 75.2 112.8  
131 87.4 75.0 112.4





#65

Chlorobenzene

Concen: 7.53 ug/l

RT: 11.66 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

Instrument :

MSVOA\_W

ClientSampleId :

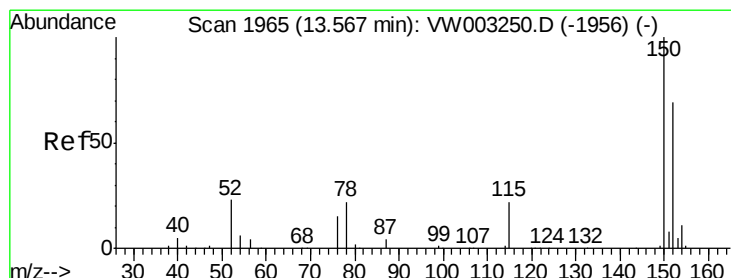
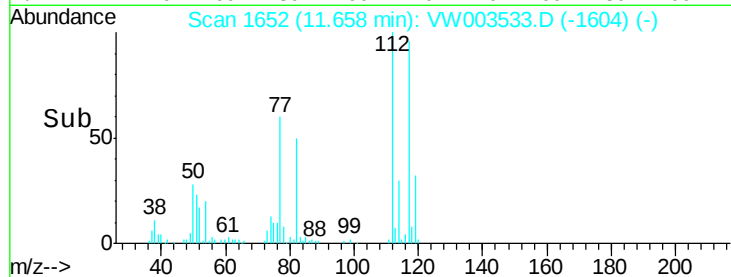
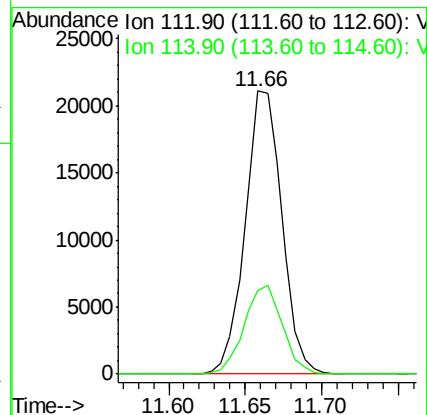
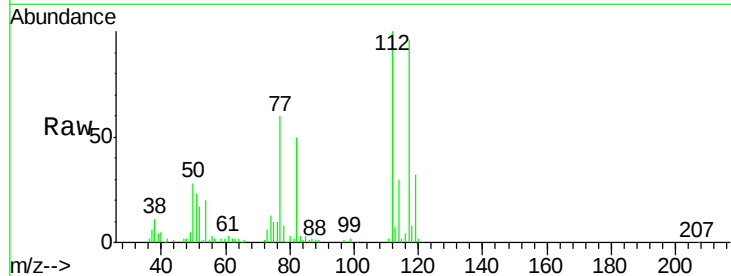
WP021SB484-35-37-180620

Tot Ion:112 Resp: 35122

Ion Ratio Lower Upper

112 100

114 29.7 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

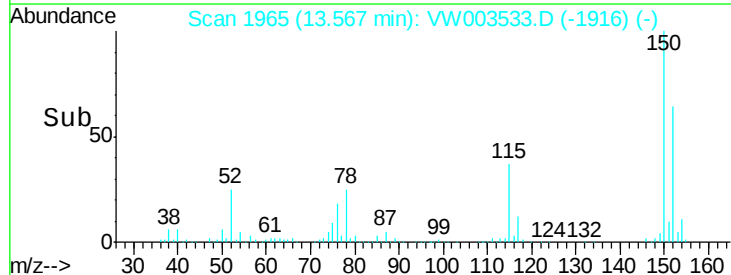
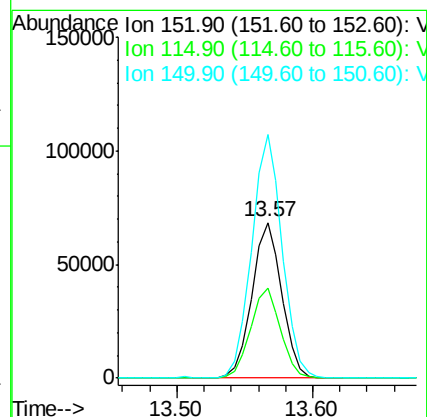
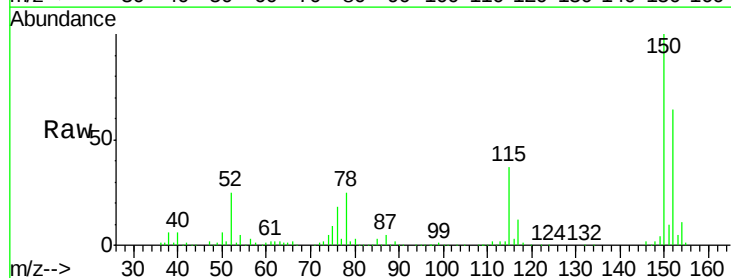
Tgt Ion:152 Resp: 105389

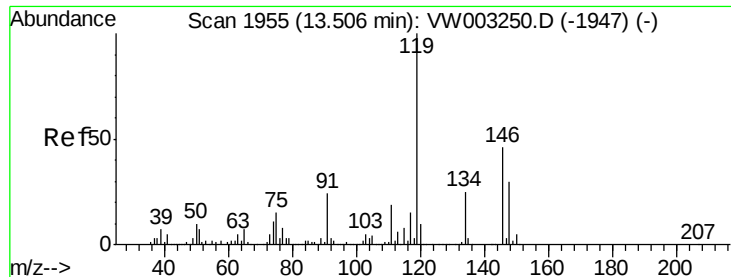
Ion Ratio Lower Upper

152 100

115 58.2 29.3 88.0

150 159.3 0.0 349.6





#87

1,3-Dichlorobenzene

Concen: 1.61 ug/l

RT: 13.51 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

Instrument :

MSVOA\_W

ClientSampleId :

WP021SB484-35-37-180620

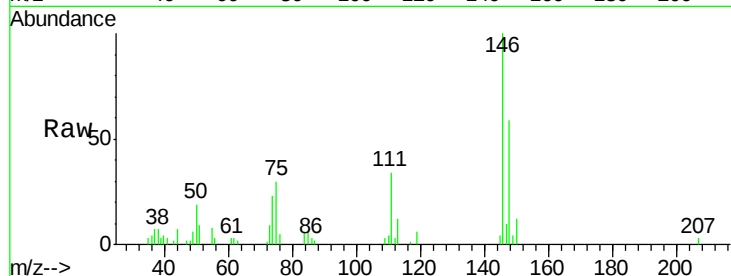
Tot Ion:146 Resp: 5643

Ion Ratio Lower Upper

146 100

111 41.2 19.8 59.4

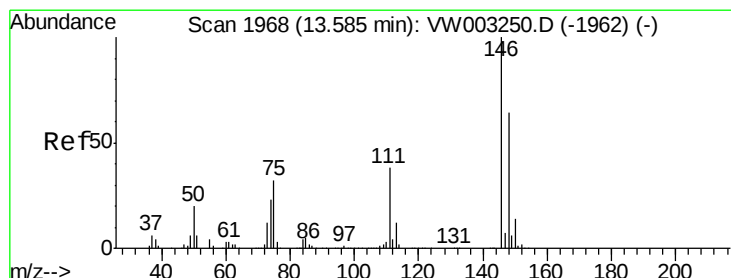
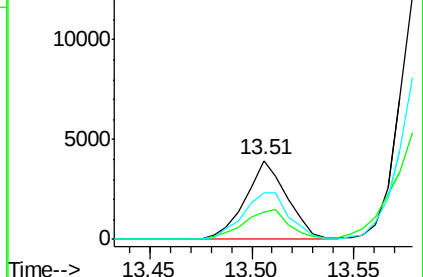
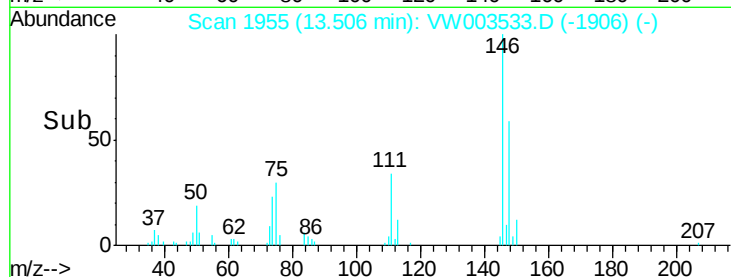
148 64.8 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 7.02 ug/l

RT: 13.58 min Scan# 1968

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

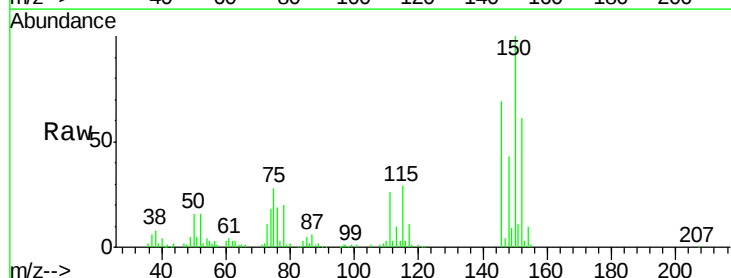
Tgt Ion:146 Resp: 24472

Ion Ratio Lower Upper

146 100

111 44.5 19.2 57.6

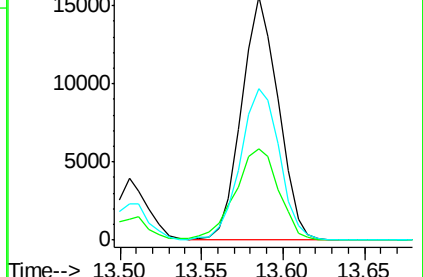
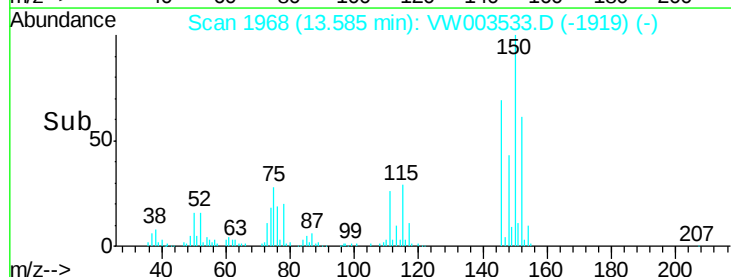
148 66.6 31.8 95.4

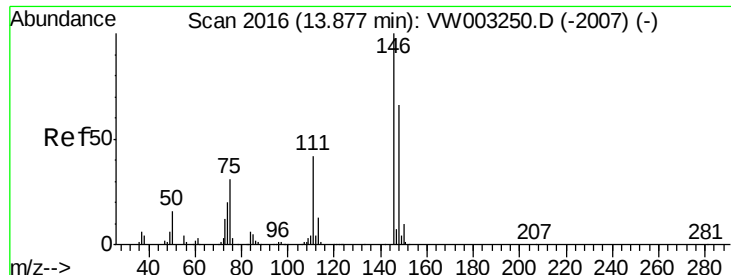


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 30.70 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VW003533.D

Acq: 25 Jun 2018 03:08

Instrument :

MSVOA\_W

ClientSampleId :

WP021SB484-35-37-180620

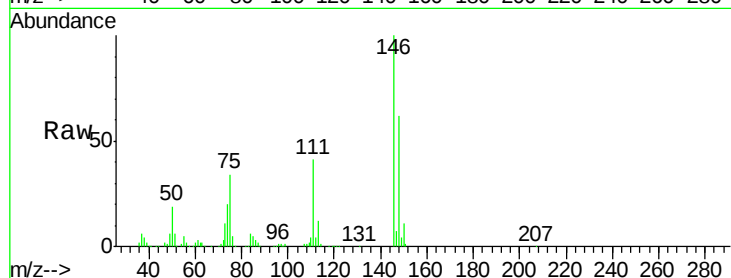
Tot Ion:146 Resp: 94310

Ion Ratio Lower Upper

146 100

111 40.9 20.3 61.0

148 62.8 32.3 96.9



Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

