

Data File : VW009250.D  
Acq On : 19 Mar 2019 19:14  
Operator : SY/VA  
Sample : K1980-01  
Misc : 5.07G/5ML/MSVOA\_W/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
WCXY2

Quant Time: Mar 20 07:34:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 20 07:22:50 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 276860   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 457806   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 425825   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 208914   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 181799   | 61.73 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 123.46% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 157663   | 54.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.58% |      |
| 50) Toluene-d8            | 10.32  | 98  | 553701   | 52.47 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.94% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 204037   | 52.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.32% |      |

Target Compounds

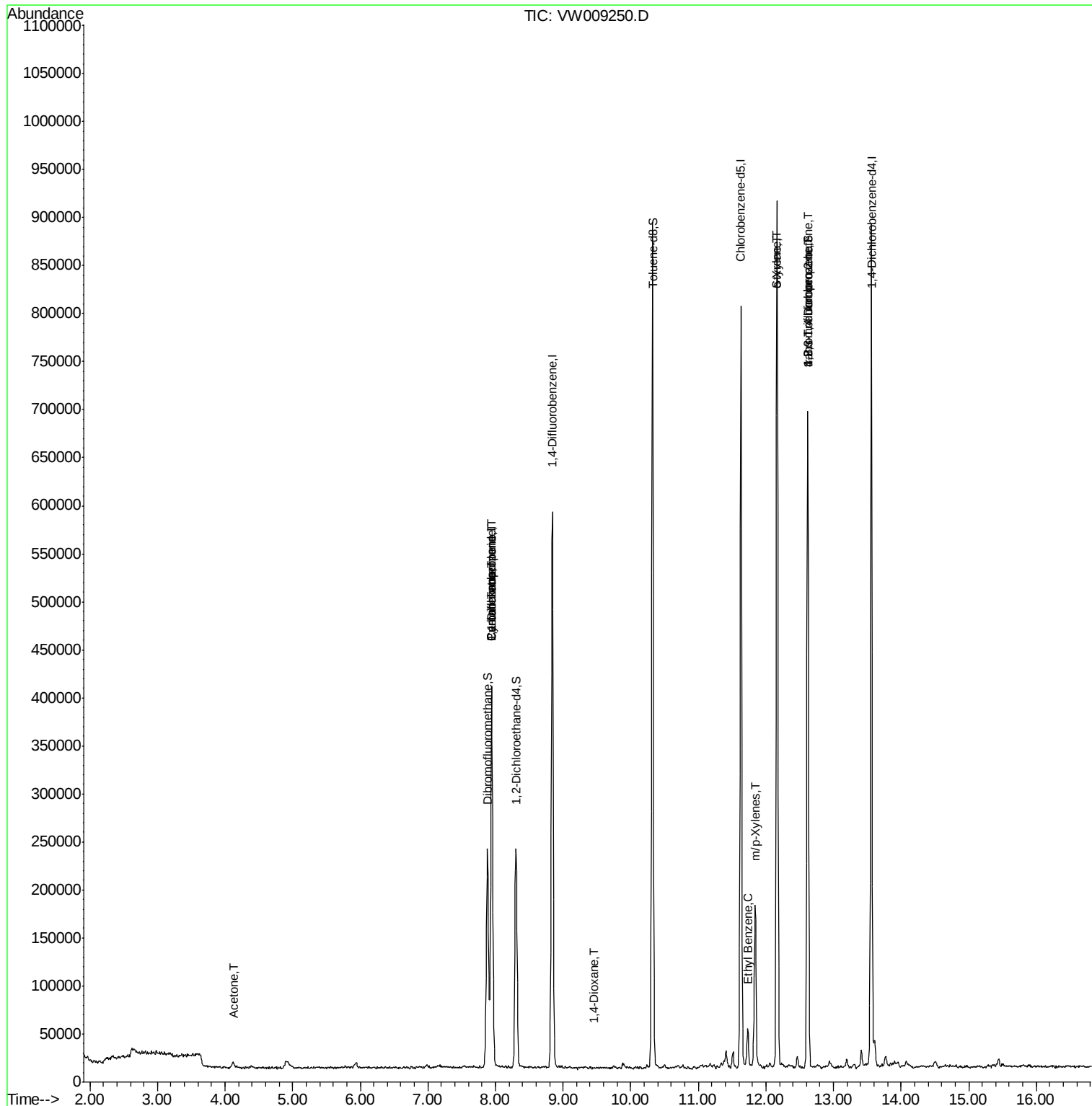
|                                |       |     |        |                | Qvalue |
|--------------------------------|-------|-----|--------|----------------|--------|
| 2) Dichlorodifluoromethane     | 2.02  | 85  | 547    | Below Cal      | 92     |
| 16) Acetone                    | 4.13  | 43  | 9827   | 16.265 ug/l #  | 67     |
| 20) Methylene Chloride         | 4.90  | 84  | 3132   | Below Cal #    | 77     |
| 31) Cyclohexane                | 7.94  | 56  | 7243   | 1.499 ug/l #   | 29     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 23429  | 5.143 ug/l #   | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 27899  | 5.787 ug/l #   | 18     |
| 49) 1,4-Dioxane                | 9.45  | 88  | 39     | 1.456 ug/l #   | 1      |
| 67) Ethyl Benzene              | 11.73 | 91  | 23710  | 1.554 ug/l     | 91     |
| 68) m/p-Xylenes                | 11.84 | 106 | 44179  | 7.472 ug/l     | 96     |
| 69) o-Xylene                   | 12.16 | 106 | 230106 | 41.912 ug/l    | 99     |
| 70) Styrene                    | 12.17 | 104 | 12895  | 1.425 ug/l #   | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 114007 | 58.071 ug/l #  | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 114007 | 142.491 ug/l # | 7      |

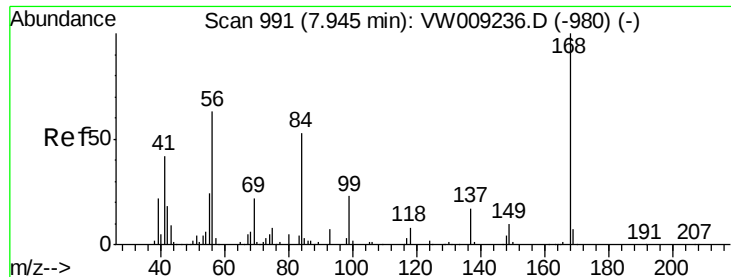
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW009250.D

Acq: 19 Mar 2019 19:14

Instrument :

MSVOA\_W

ClientSampled :

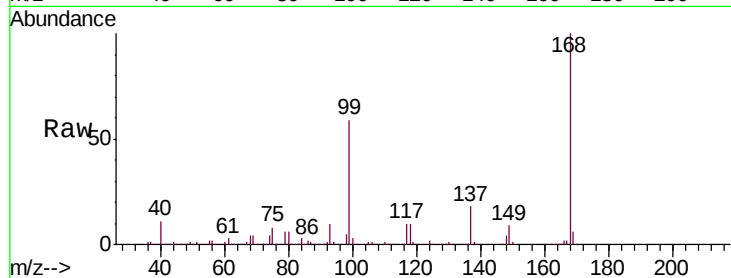
WCXY2

Tgt Ion:168 Resp: 276860

Ion Ratio Lower Upper

168 100

99 59.0 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

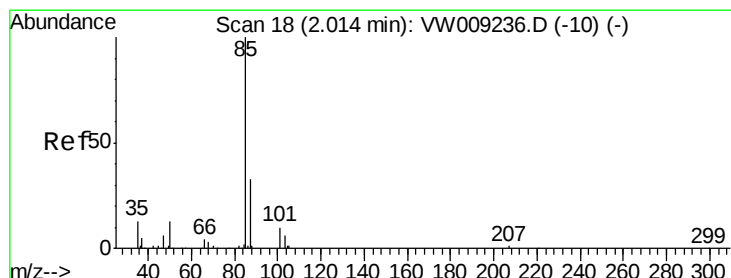
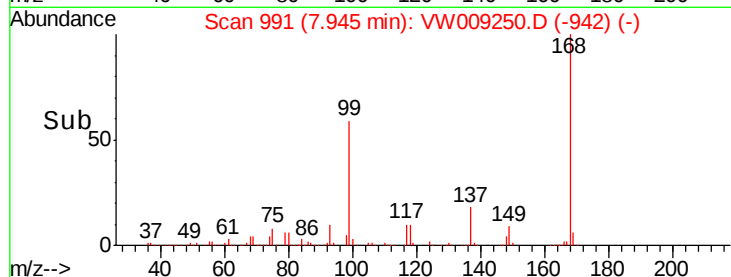
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW009250.D

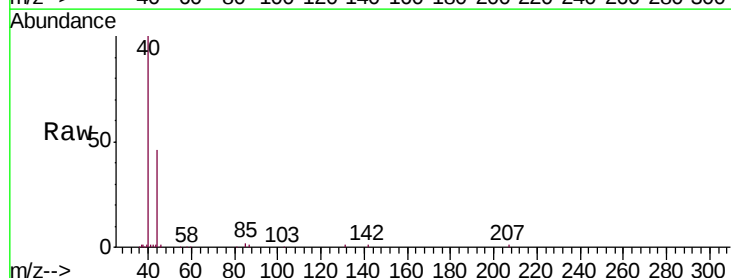
Acq: 19 Mar 2019 19:14

Tgt Ion: 85 Resp: 547

Ion Ratio Lower Upper

85 100

87 37.8 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.02

300

250

200

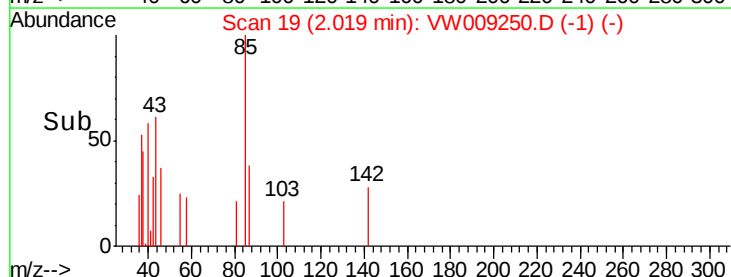
150

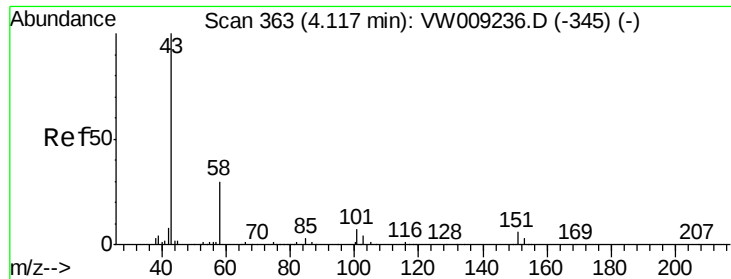
100

50

0

Time-->





#16

Acetone

Concen: 16.265 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW009250.D

Acq: 19 Mar 2019 19:14

Instrument :

MSVOA\_W

ClientSampled :

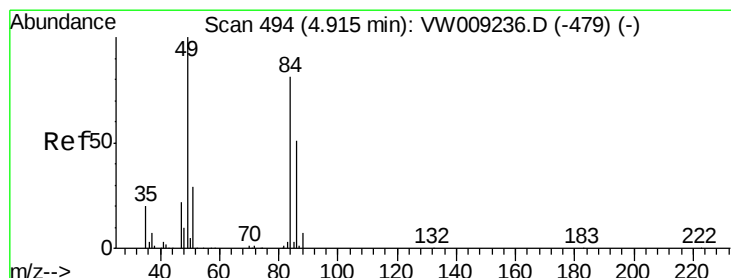
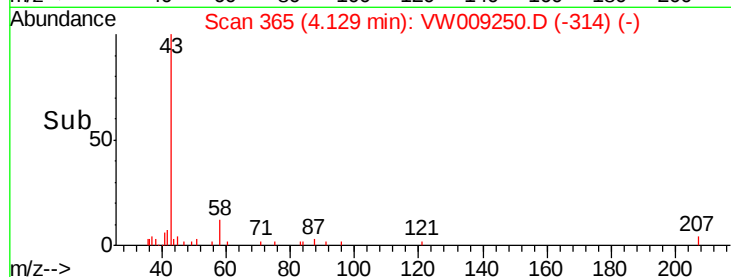
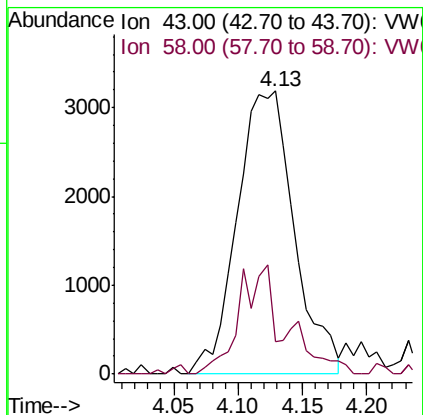
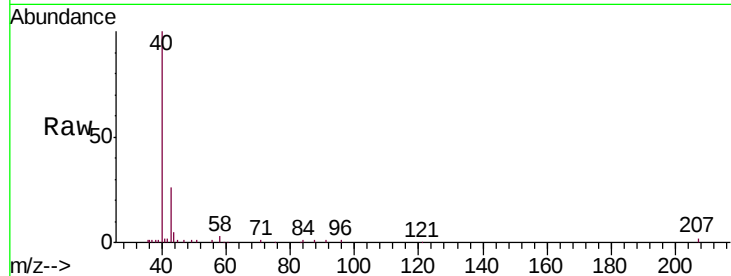
WCXY2

Tgt Ion: 43 Resp: 9827

Ion Ratio Lower Upper

43 100

58 11.7 23.6 35.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW009250.D

Acq: 19 Mar 2019 19:14

Tgt Ion: 84 Resp: 3132

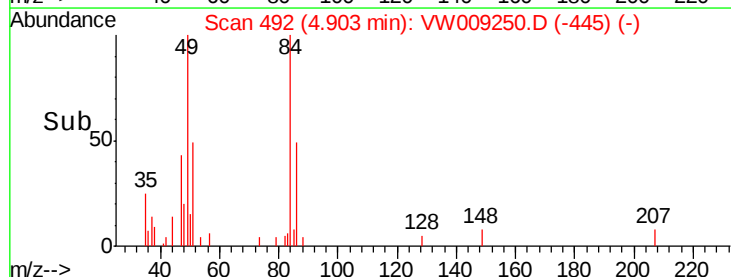
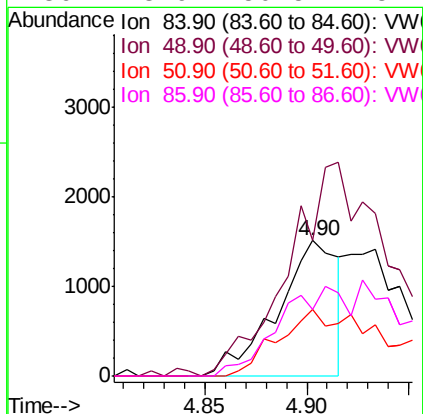
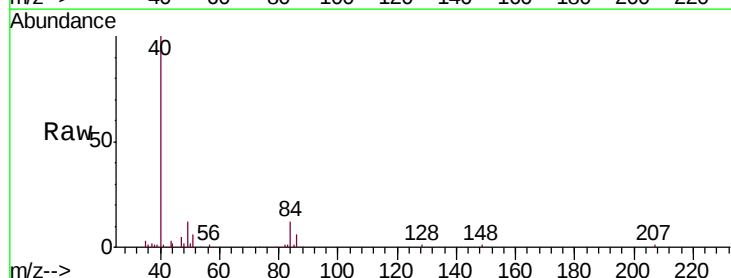
Ion Ratio Lower Upper

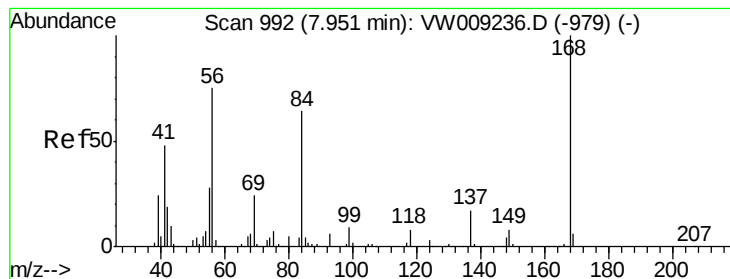
84 100

49 96.1 99.1 148.7#

51 49.4 28.7 43.1#

86 48.9 50.5 75.7#





#31

Cyclohexane

Concen: 1.499 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW009250.D

Acq: 19 Mar 2019 19:14

Instrument :

MSVOA\_W

ClientSampled :

WCXY2

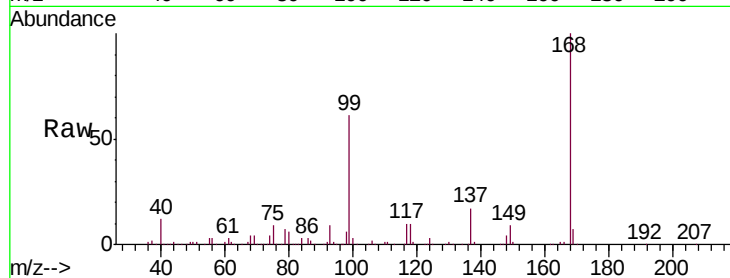
Tgt Ion: 56 Resp: 7243

Ion Ratio Lower Upper

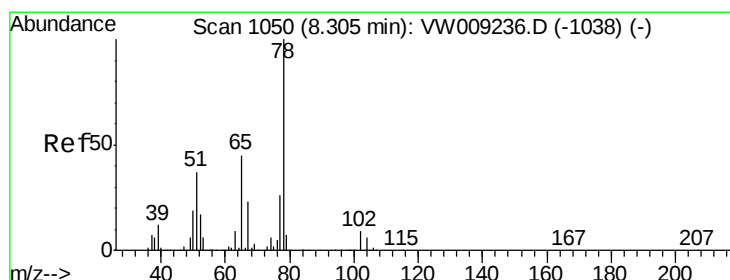
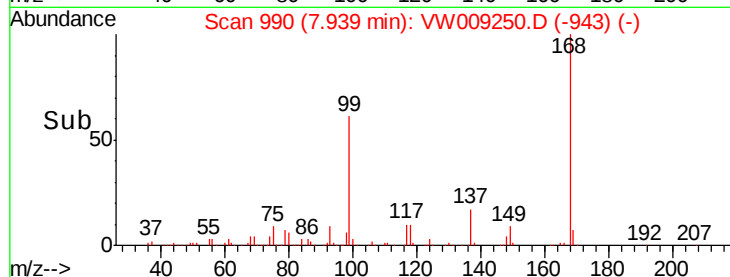
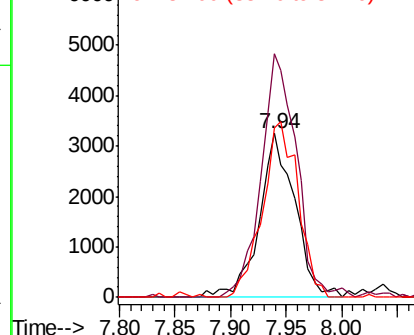
56 100

69 148.8 26.1 39.1#

84 103.3 68.6 103.0#



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: 61.733 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW009250.D

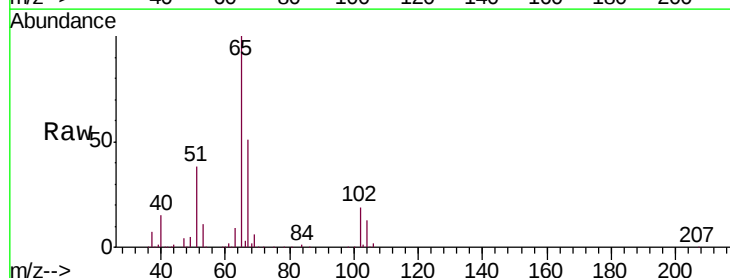
Acq: 19 Mar 2019 19:14

Tgt Ion: 65 Resp: 181799

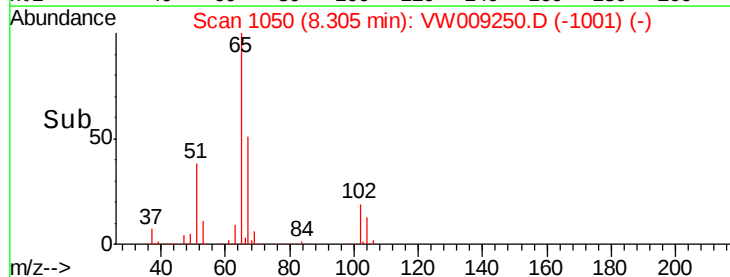
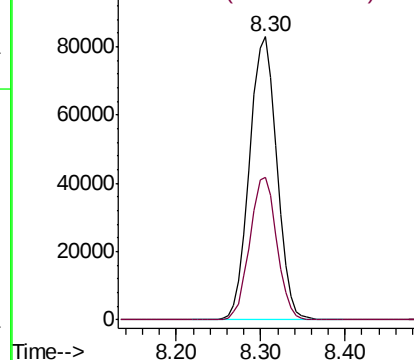
Ion Ratio Lower Upper

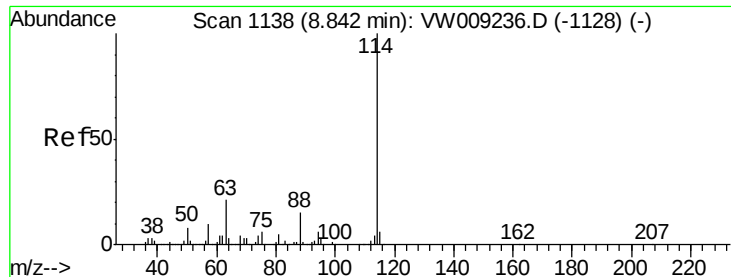
65 100

67 49.7 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

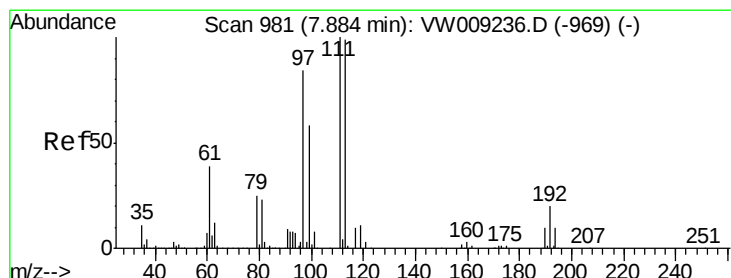
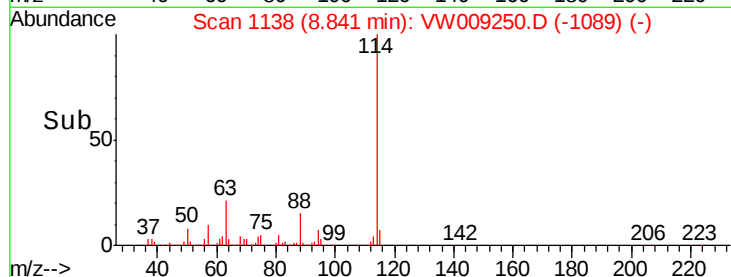
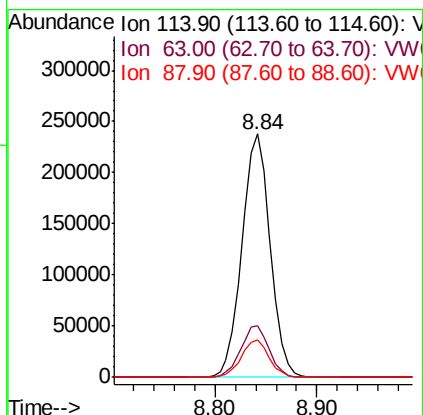
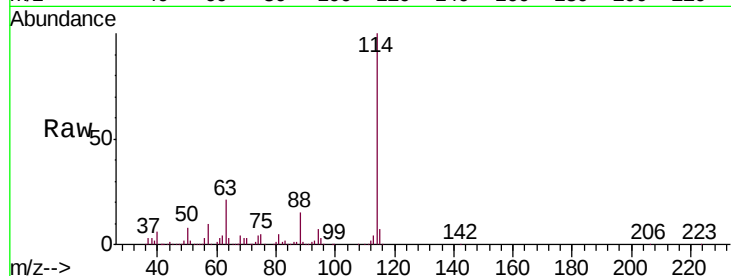




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW009250.D  
 Acq: 19 Mar 2019 19:14

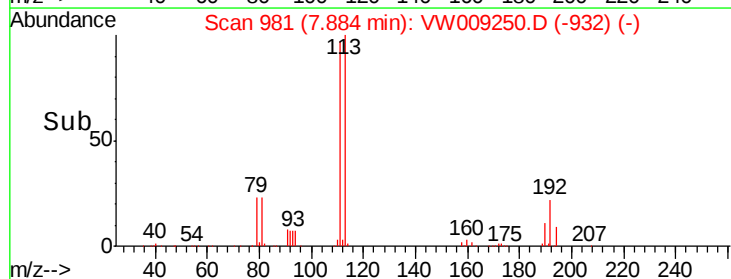
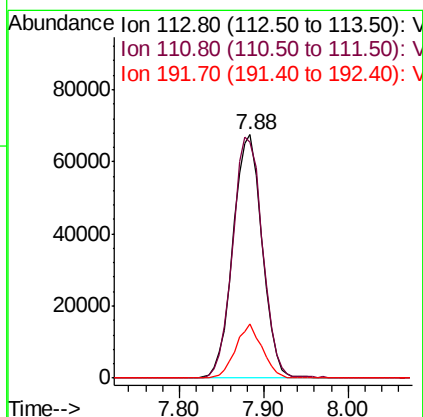
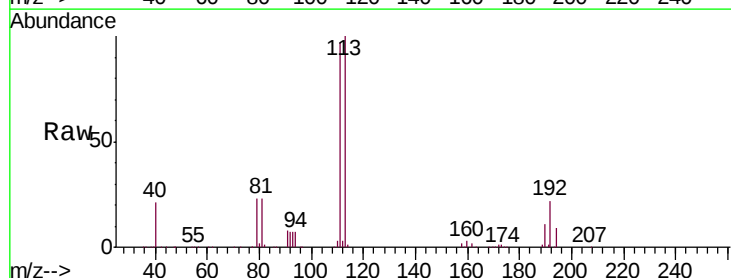
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WCXY2

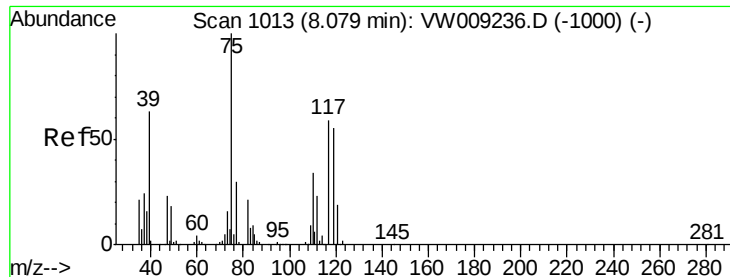
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.4  | 0.0   | 42.2  |
| 88      | 15.2  | 0.0   | 30.8  |



#35  
 Dibromofluoromethane  
 Concen: 54.290 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW009250.D  
 Acq: 19 Mar 2019 19:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.5 | 82.6  | 124.0 |
| 192     | 20.3  | 16.4  | 24.6  |

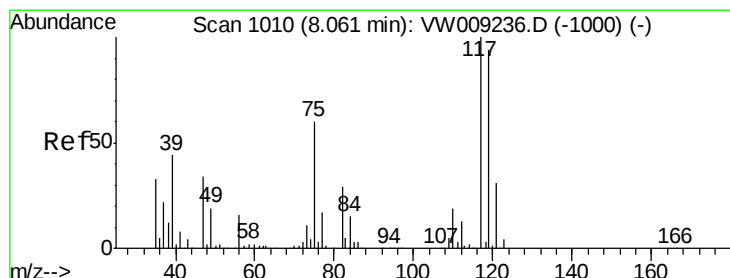
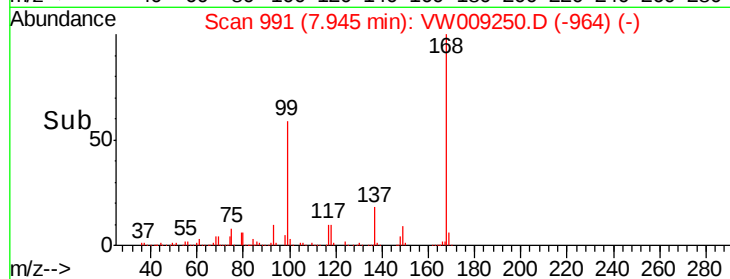
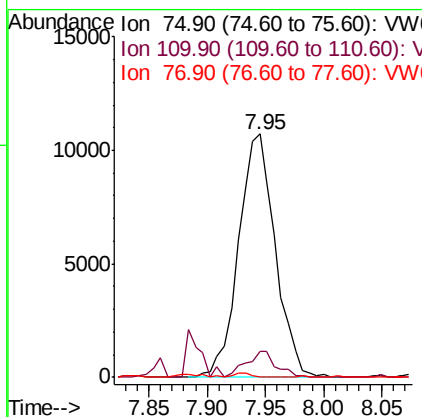
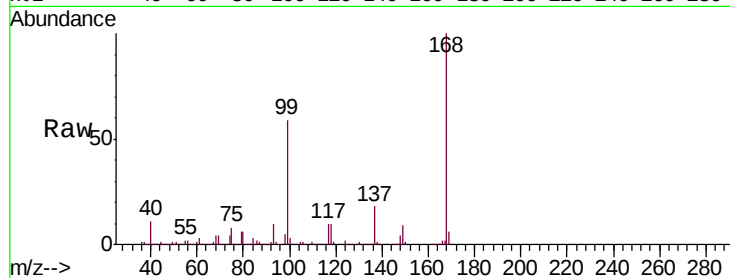




#36  
 1,1-Dichloropropene  
 Concen: 5.143 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW009250.D  
 Acq: 19 Mar 2019 19:14

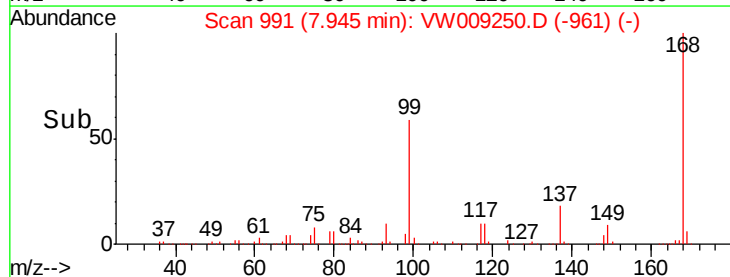
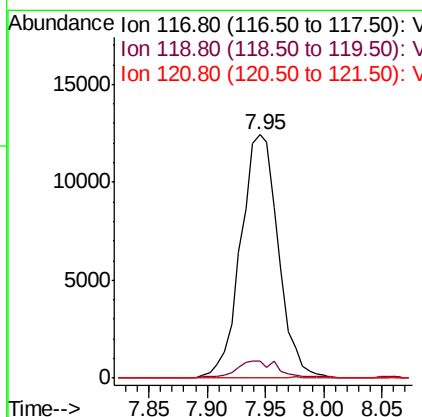
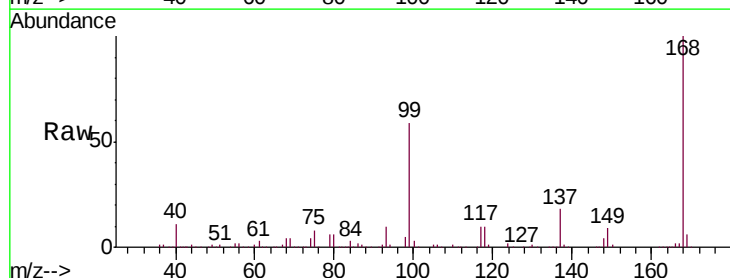
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 WCXY2

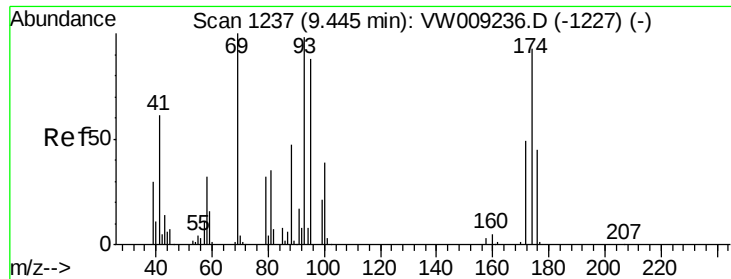
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.9   | 16.8  | 50.4# |
| 77      | 0.0   | 24.6  | 36.8# |



#38  
 Carbon Tetrachloride  
 Concen: 5.787 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW009250.D  
 Acq: 19 Mar 2019 19:14

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.9   | 75.4  | 113.0# |
| 121     | 0.0   | 24.9  | 37.3#  |





#49

1,4-Dioxane

Concen: 1.456 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW009250.D

Acq: 19 Mar 2019 19:14

Instrument :

MSVOA\_W

ClientSampled :

WCXY2

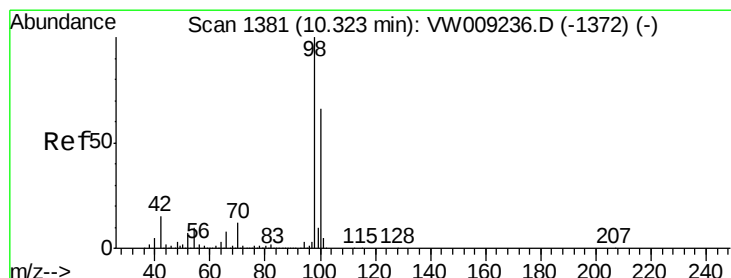
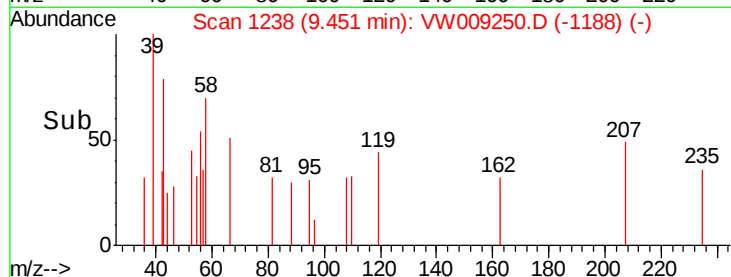
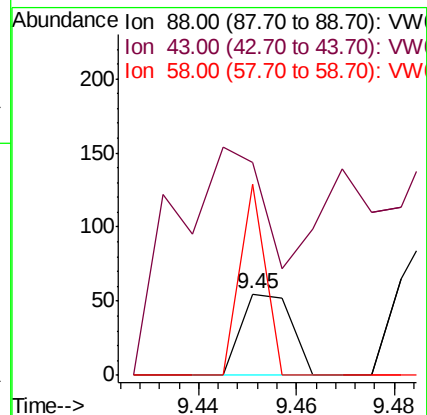
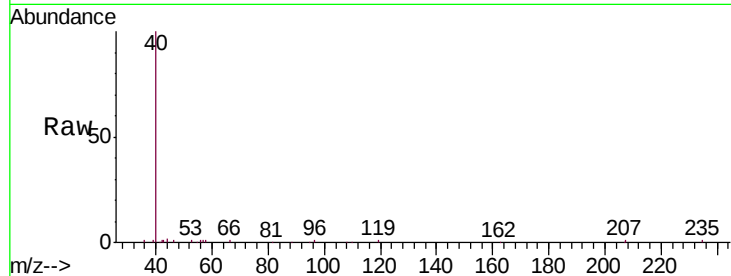
Tgt Ion: 88 Resp: 39

Ion Ratio Lower Upper

88 100

43 551.3 29.7 44.5#

58 120.5 58.1 87.1#



#50

Toluene-d8

Concen: 52.465 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW009250.D

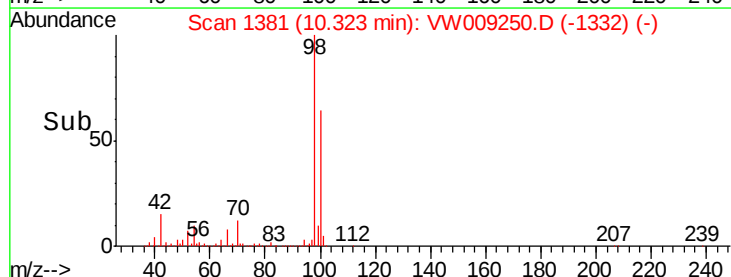
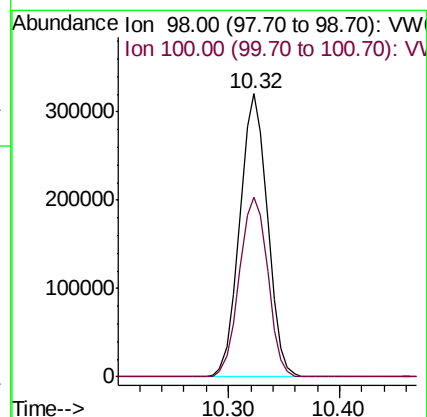
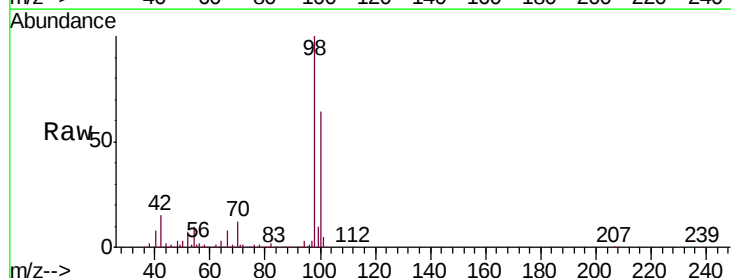
Acq: 19 Mar 2019 19:14

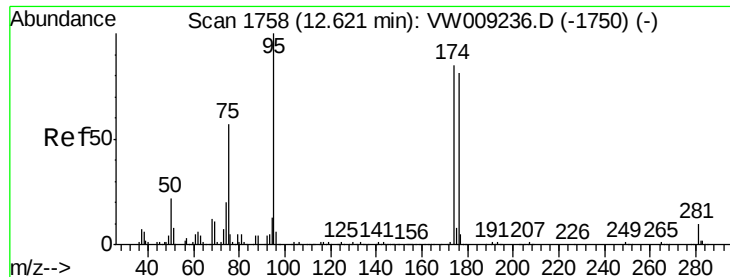
Tgt Ion: 98 Resp: 553701

Ion Ratio Lower Upper

98 100

100 65.1 52.6 79.0





#62

4-Bromofluorobenzene

Concen: 52.656 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW009250.D

Acq: 19 Mar 2019 19:14

Instrument :

MSVOA\_W

ClientSampleId :

WCXY2

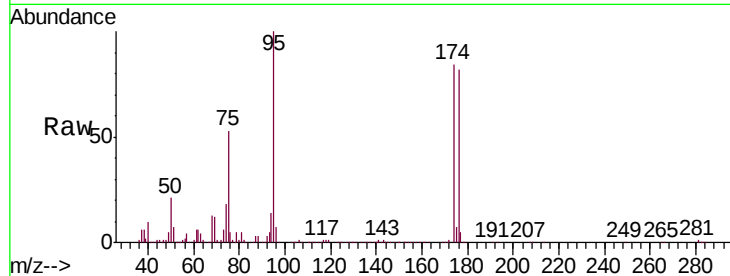
Tgt Ion: 95 Resp: 204037

Ion Ratio Lower Upper

95 100

174 84.4 0.0 168.4

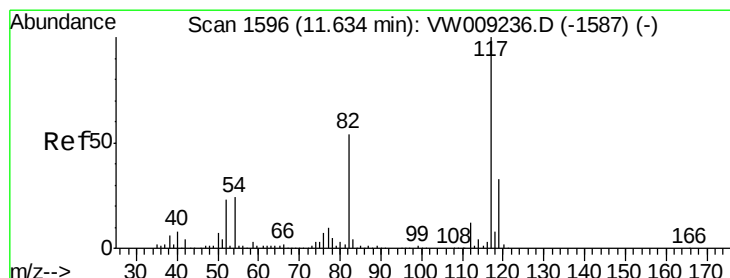
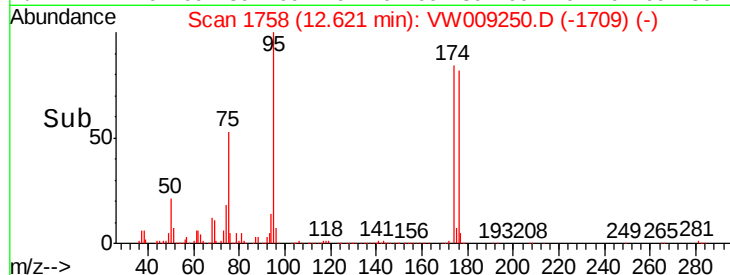
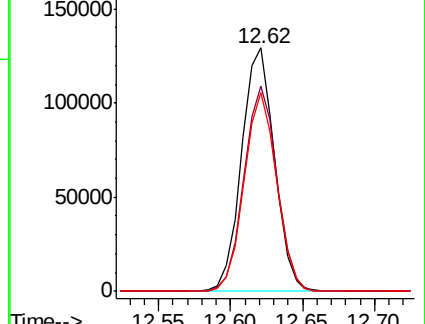
176 80.6 0.0 161.6



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: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW009250.D

Acq: 19 Mar 2019 19:14

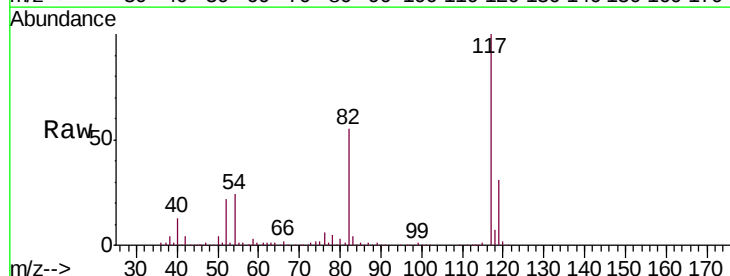
Tgt Ion: 117 Resp: 425825

Ion Ratio Lower Upper

117 100

82 55.4 43.6 65.4

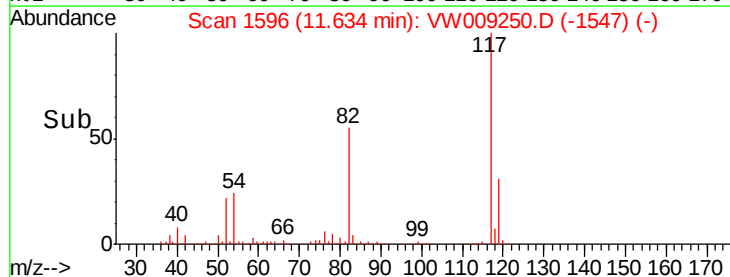
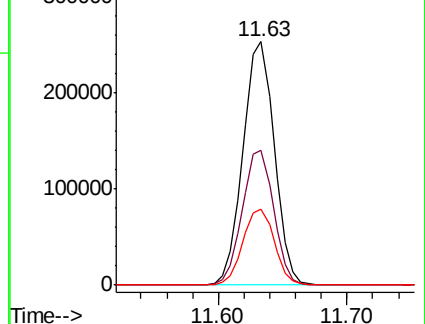
119 31.4 26.0 39.0

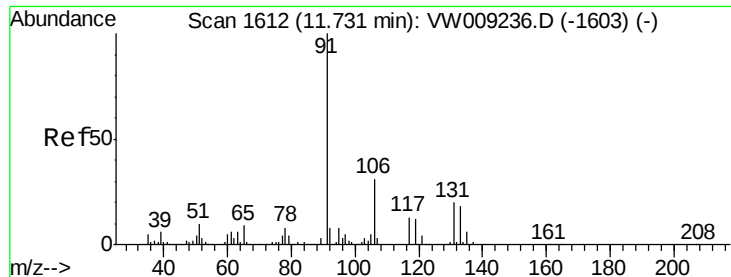


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

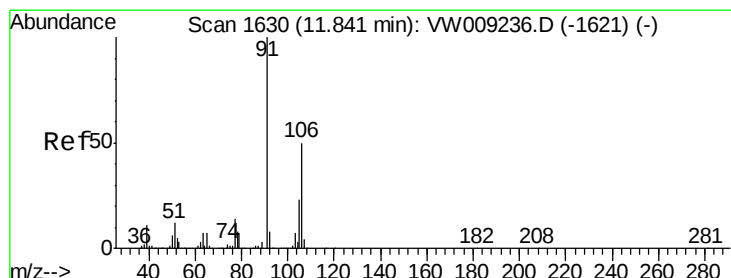
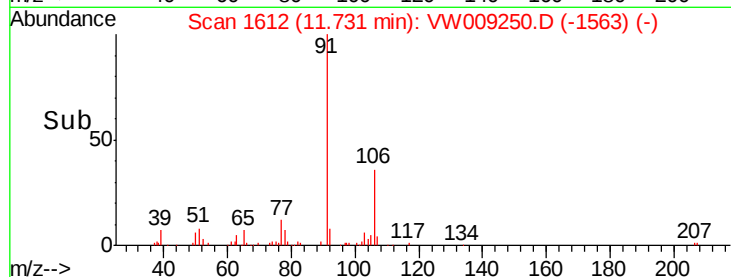
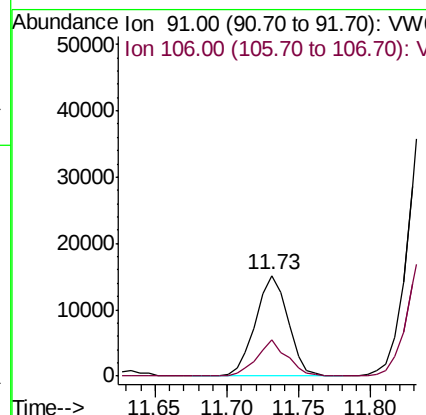
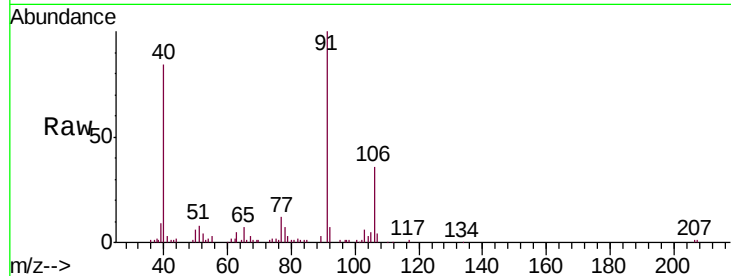




#67  
Ethyl Benzene  
Concen: 1.554 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW009250.D  
Acq: 19 Mar 2019 19:14

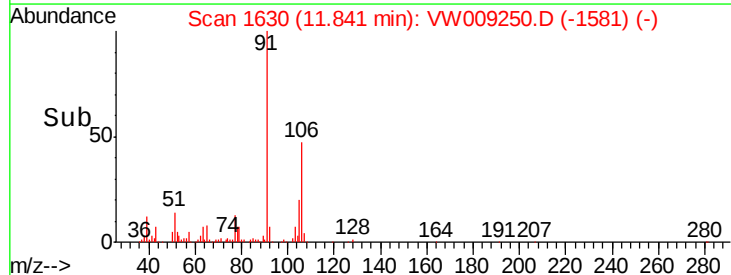
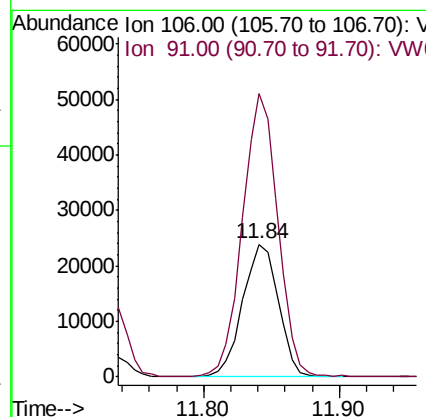
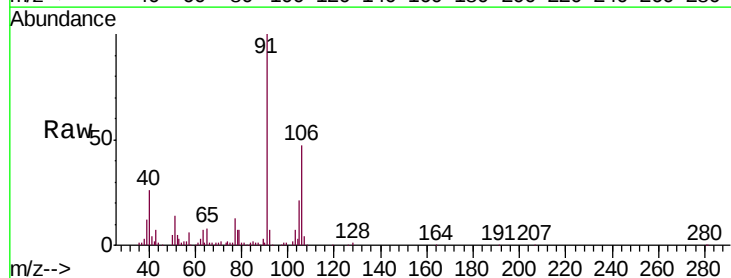
Instrument :  
MSVOA\_W  
ClientSampled :  
WCXY2

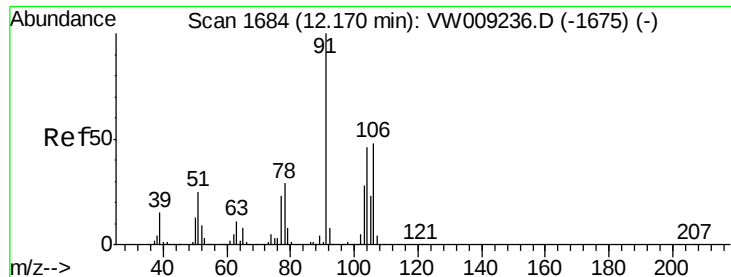
Tgt Ion: 91 Resp: 23710  
Ion Ratio Lower Upper  
91 100  
106 35.9 24.6 36.8



#68  
m/p-Xylenes  
Concen: 7.472 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW009250.D  
Acq: 19 Mar 2019 19:14

Tgt Ion: 106 Resp: 44179  
Ion Ratio Lower Upper  
106 100  
91 210.1 163.1 244.7

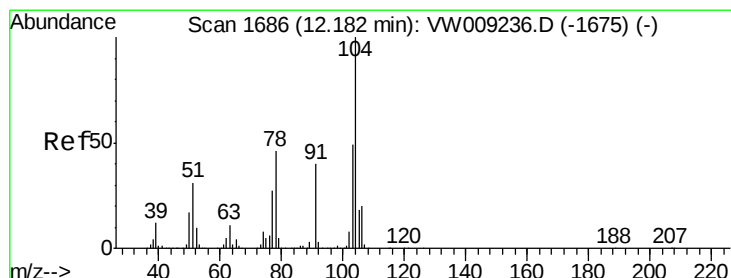
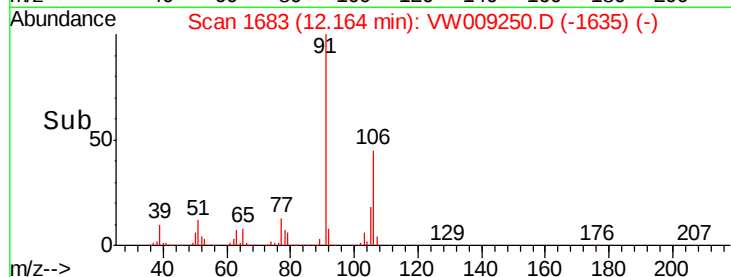
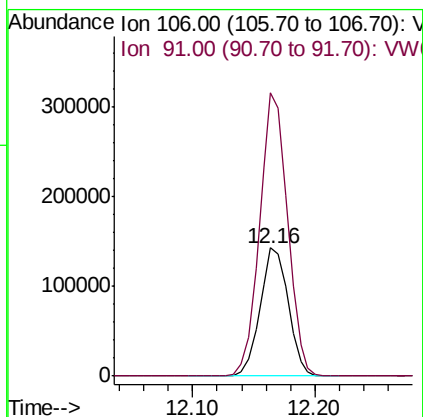
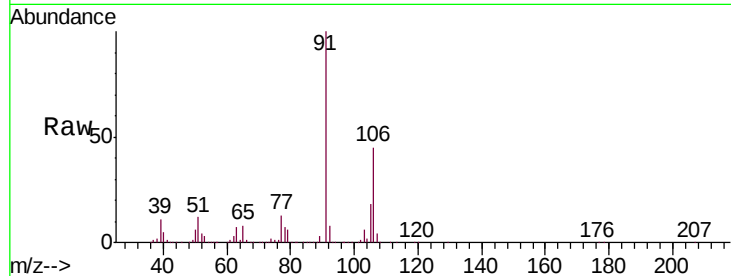




#69  
o-Xylene  
Concen: 41.912 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: VW009250.D  
Acq: 19 Mar 2019 19:14

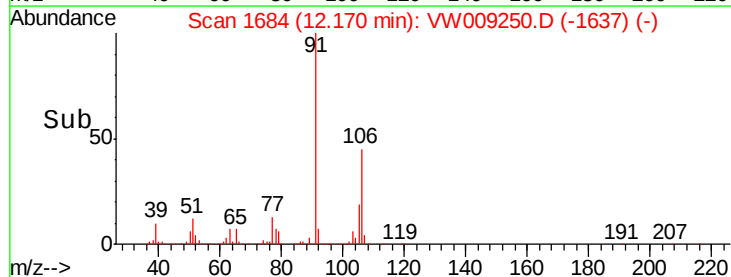
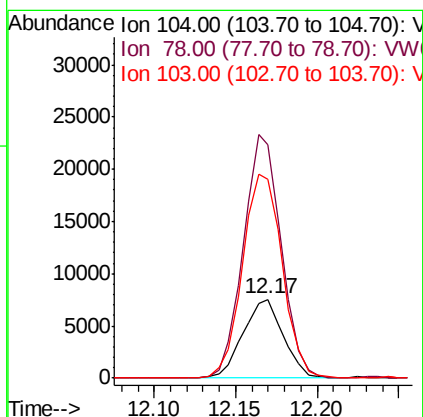
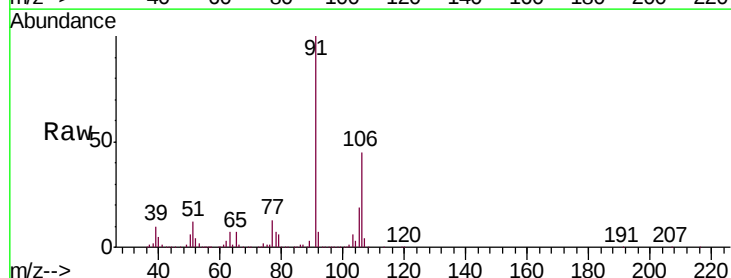
Instrument :  
MSVOA\_W  
ClientSampled :  
WCXY2

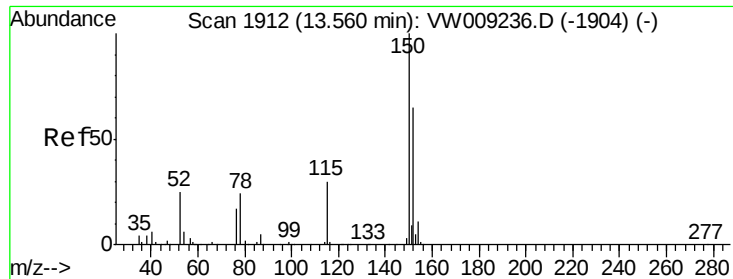
Tgt Ion:106 Resp: 230106  
Ion Ratio Lower Upper  
106 100  
91 219.1 108.6 325.8



#70  
Styrene  
Concen: 1.425 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.01 min  
Lab File: VW009250.D  
Acq: 19 Mar 2019 19:14

Tgt Ion:104 Resp: 12895  
Ion Ratio Lower Upper  
104 100  
78 291.1 42.2 63.4#  
103 257.3 44.6 66.8#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW009250.D

Acq: 19 Mar 2019 19:14

Instrument :

MSVOA\_W

ClientSampled :

WCXY2

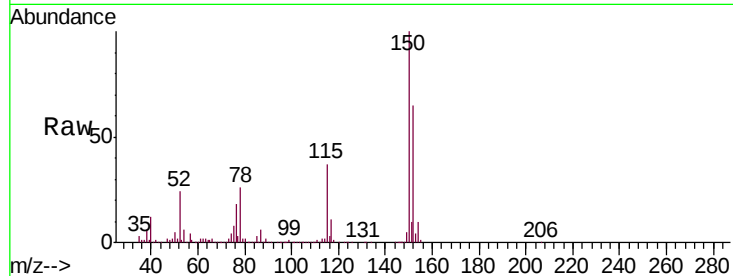
Tgt Ion:152 Resp: 208914

Ion Ratio Lower Upper

152 100

115 58.1 29.6 88.8

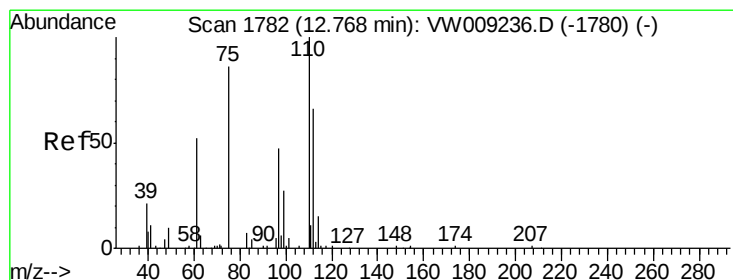
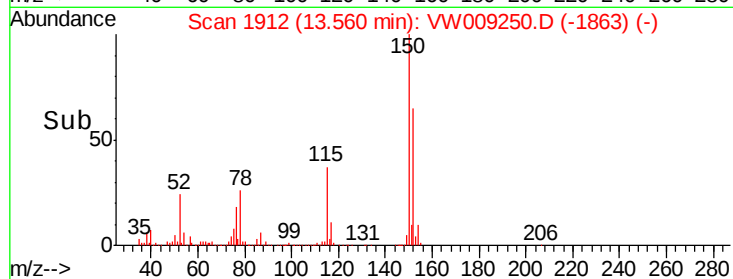
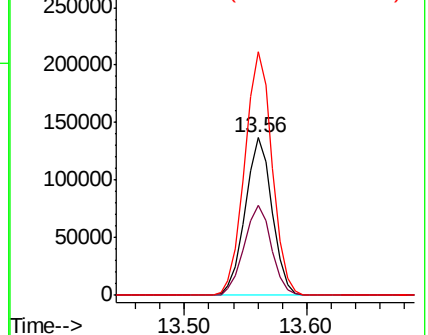
150 157.3 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 58.071 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW009250.D

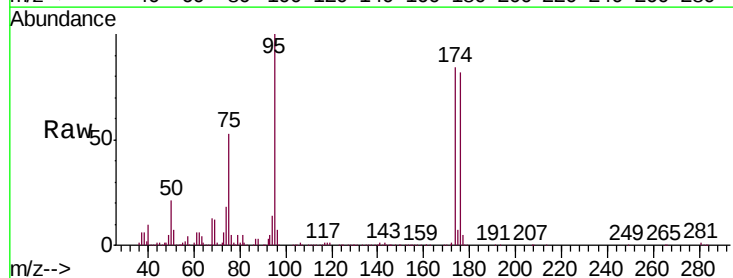
Acq: 19 Mar 2019 19:14

Tgt Ion: 75 Resp: 114007

Ion Ratio Lower Upper

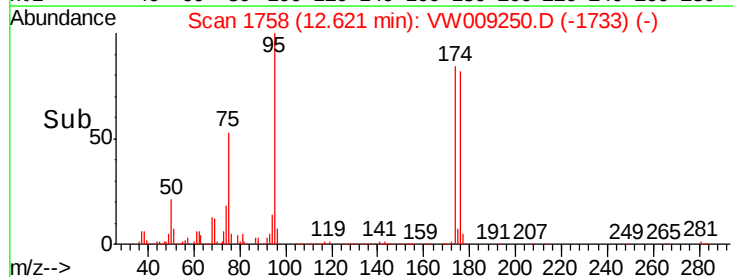
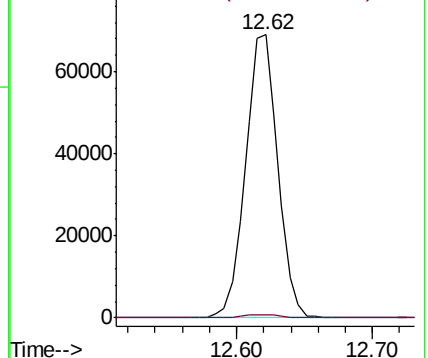
75 100

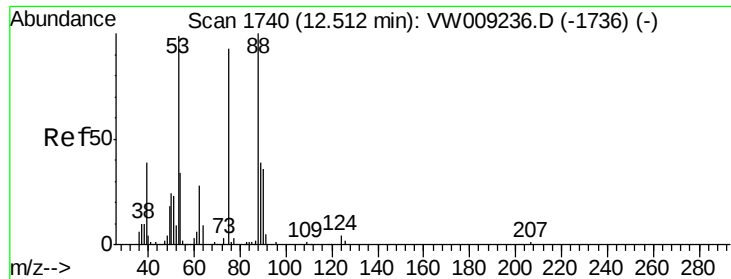
77 1.5 0.0 0.0#



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: 142.491 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009250.D

Acq: 19 Mar 2019 19:14

Instrument :

MSVOA\_W

ClientSampleId :

WCXY2

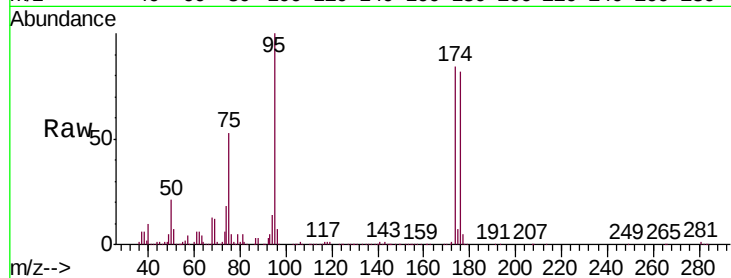
Tgt Ion: 75 Resp: 114007

Ion Ratio Lower Upper

75 100

53 0.2 86.7 130.1#

89 0.0 36.4 54.6#



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

