

Data File : VW009249.D  
Acq On : 19 Mar 2019 18:47  
Operator : SY/VA  
Sample : K1979-01  
Misc : 6.40G/5ML/MSVOA\_W/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFD1A

Quant Time: Mar 20 07:34:12 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  | 268466   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 434971   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 397645   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 199100   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 170043   | 59.55 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 119.10% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 146465   | 53.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.16% |      |
| 50) Toluene-d8            | 10.32  | 98  | 529227   | 52.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.56% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 186032   | 50.53 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.06% |      |

#### Target Compounds

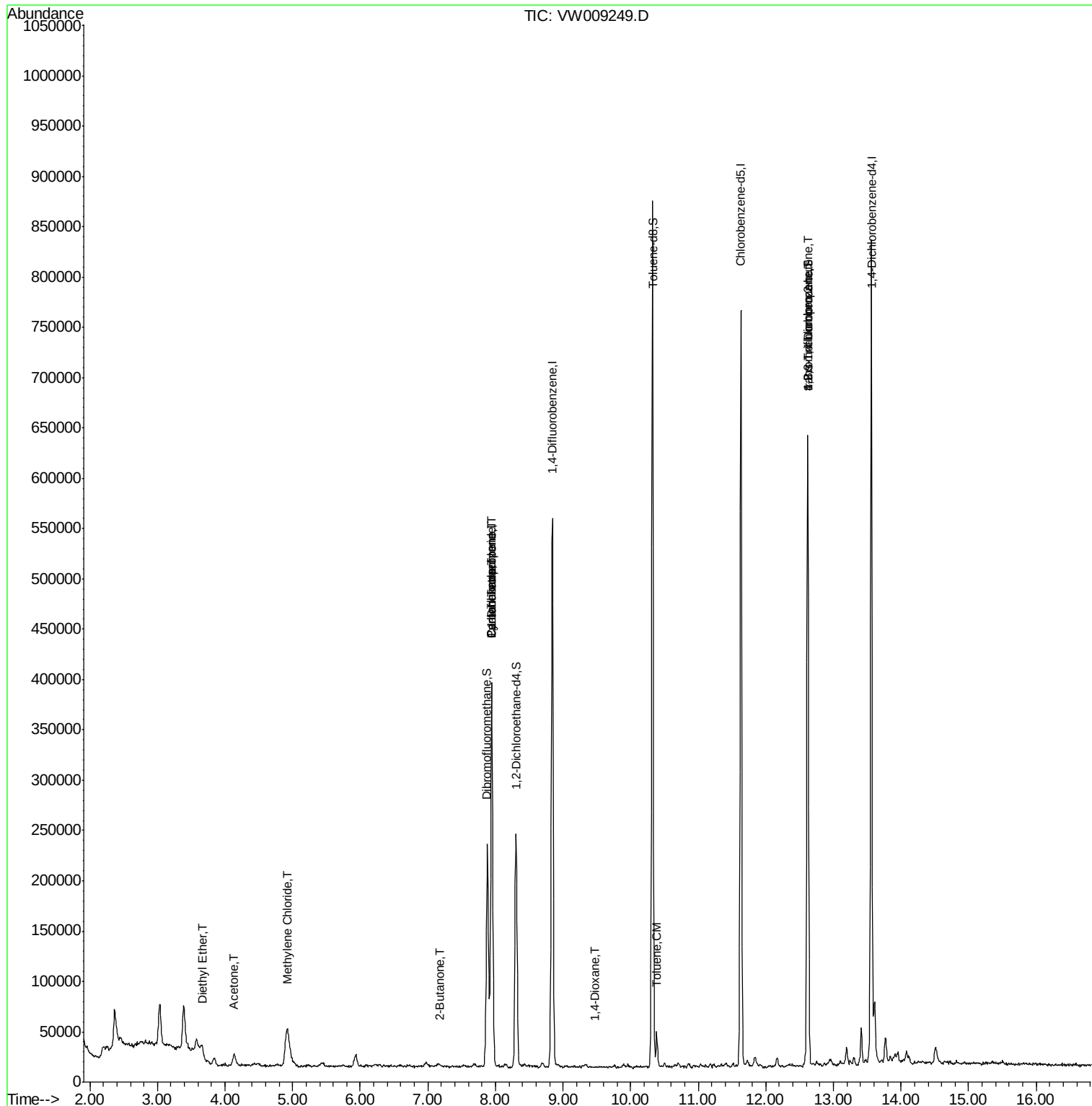
|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 28     | Below Cal | #      | 41     |
| 8) Diethyl Ether               | 3.67  | 74  | 4592   | 3.403     | ug/l   | 91     |
| 16) Acetone                    | 4.14  | 43  | 22787  | 38.894    | ug/l   | 95     |
| 20) Methylene Chloride         | 4.92  | 84  | 31792  | 10.879    | ug/l   | 95     |
| 25) 2-Butanone                 | 7.18  | 43  | 1343   | 1.600     | ug/l   | 98     |
| 31) Cyclohexane                | 7.95  | 56  | 8246   | 1.760     | ug/l # | 31     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 22093  | 5.104     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.94  | 117 | 27411  | 5.984     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 9.47  | 88  | 62     | 2.436     | ug/l # | 22     |
| 52) Toluene                    | 10.38 | 92  | 12877  | 1.731     | ug/l   | 92     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 100074 | 53.487    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 100074 | 131.242   | ug/l # | 7      |

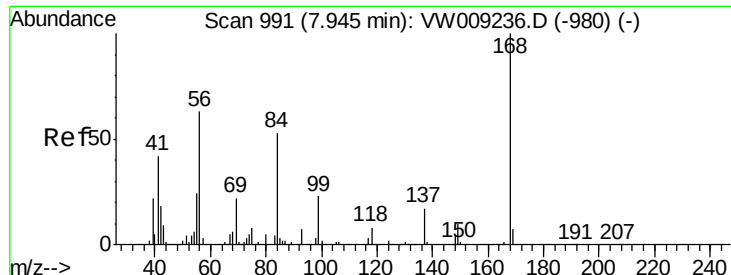
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW009249.D

Acq: 19 Mar 2019 18:47

Instrument :

MSVOA\_W

ClientSampleId :

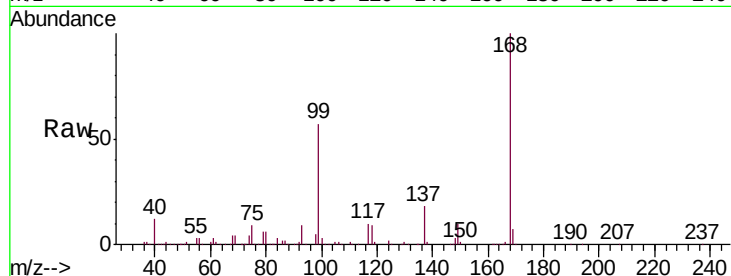
BFD1A

Tgt Ion:168 Resp: 268466

Ion Ratio Lower Upper

168 100

99 56.6 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

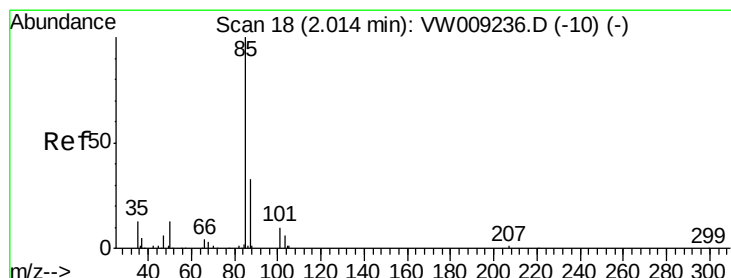
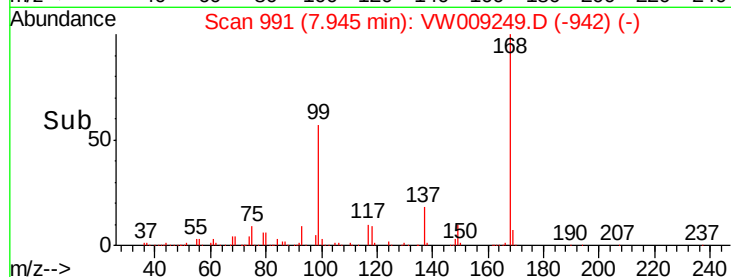
100000

50000

0

Time-->

7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW009249.D

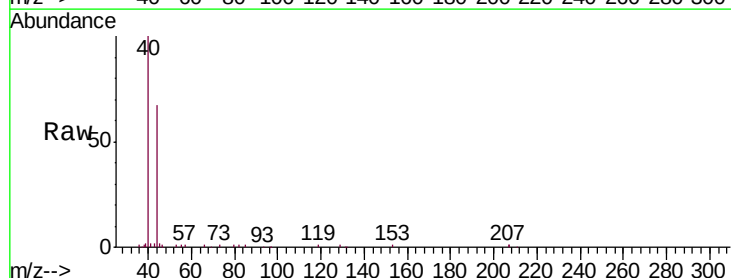
Acq: 19 Mar 2019 18:47

Tgt Ion: 85 Resp: 28

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

80

60

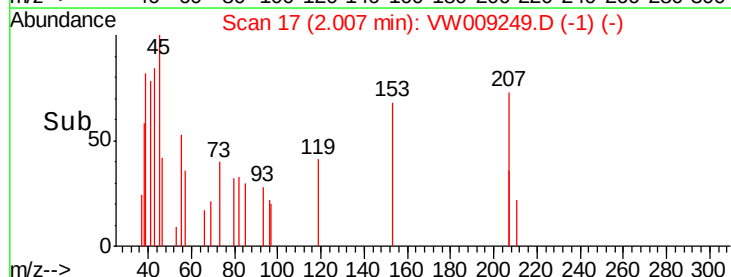
40

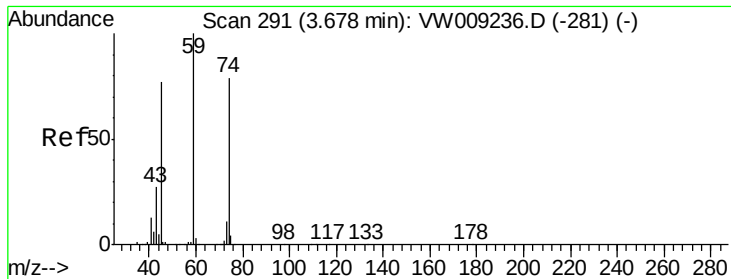
20

0

Time-->

1.99 2.00 2.01 2.02





#8

Diethyl Ether

Concen: 3.403 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW009249.D

Acq: 19 Mar 2019 18:47

Instrument :

MSVOA\_W

ClientSampleId :

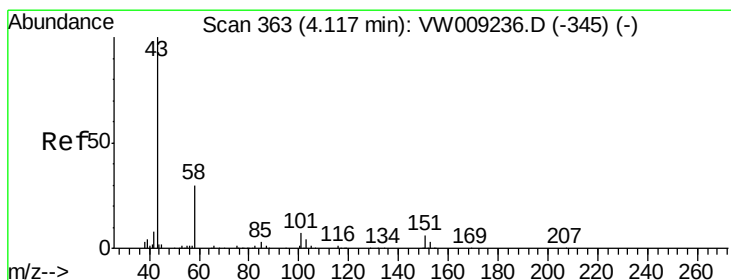
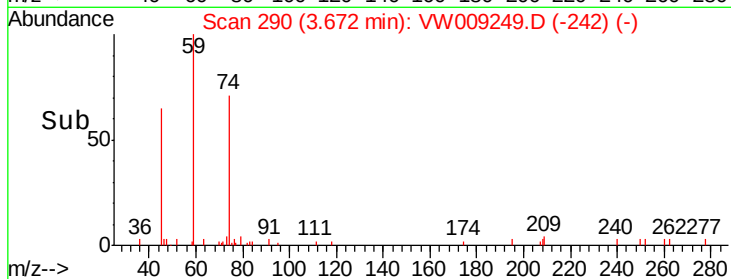
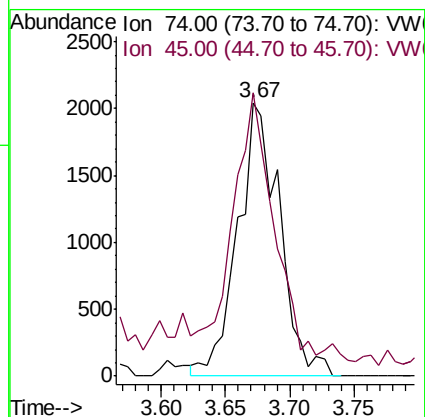
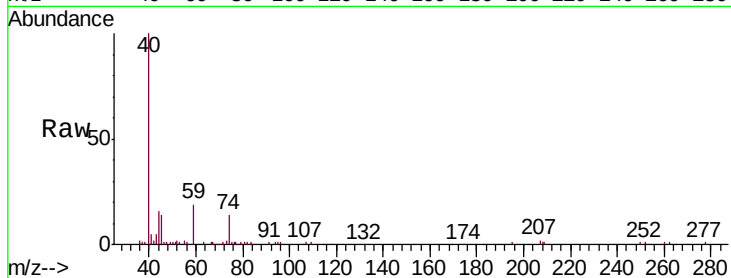
BFD1A

Tgt Ion: 74 Resp: 4592

Ion Ratio Lower Upper

74 100

45 91.8 50.6 151.9



#16

Acetone

Concen: 38.894 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW009249.D

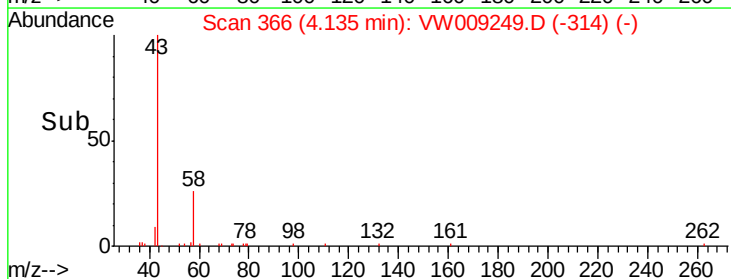
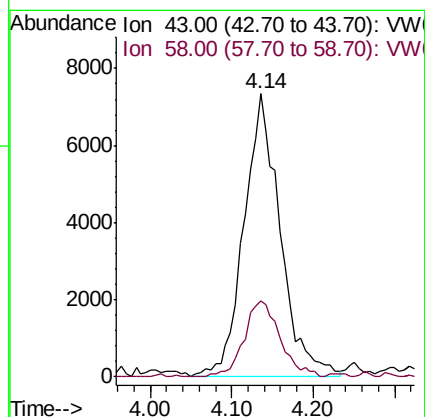
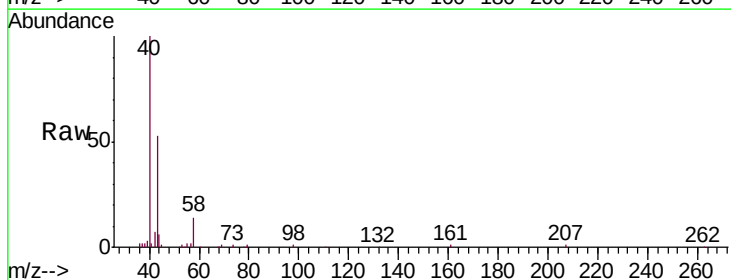
Acq: 19 Mar 2019 18:47

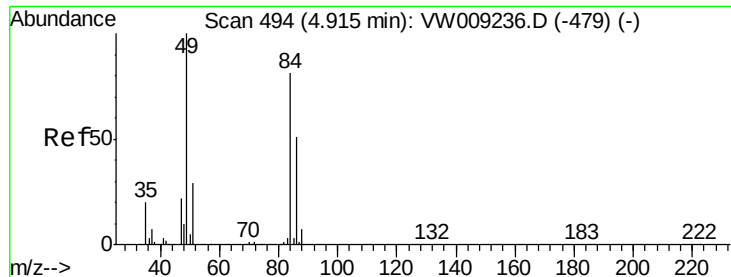
Tgt Ion: 43 Resp: 22787

Ion Ratio Lower Upper

43 100

58 27.0 23.6 35.4

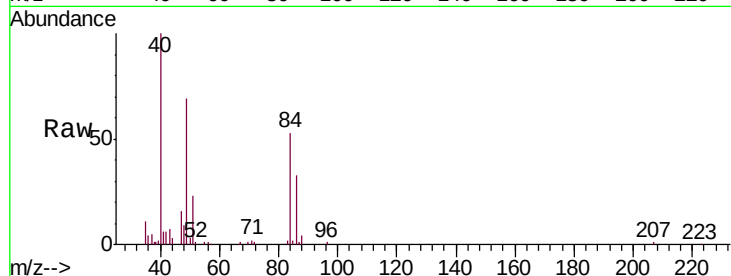




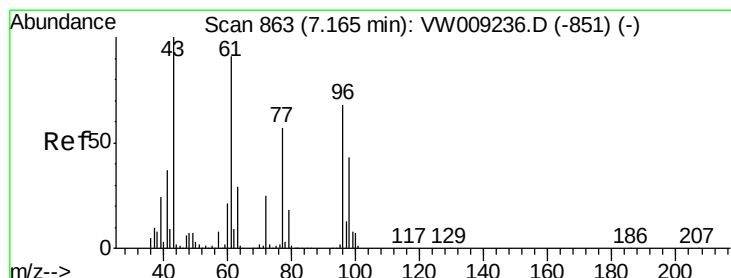
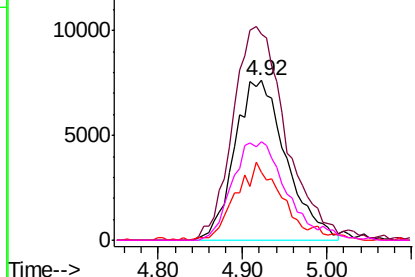
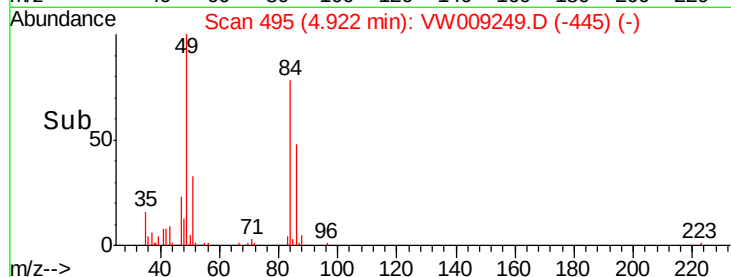
#20  
Methylene Chloride  
Concen: 10.879 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW009249.D  
Acq: 19 Mar 2019 18:47

Instrument :  
MSVOA\_W  
ClientSampled :  
BFD1A

Tgt Ion: 84 Resp: 31792  
Ion Ratio Lower Upper  
84 100  
49 128.8 99.1 148.7  
51 42.7 28.7 43.1  
86 61.6 50.5 75.7

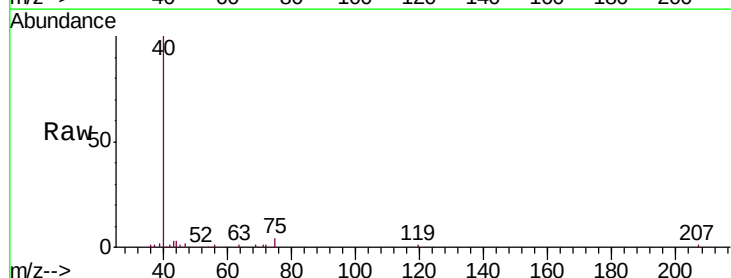


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

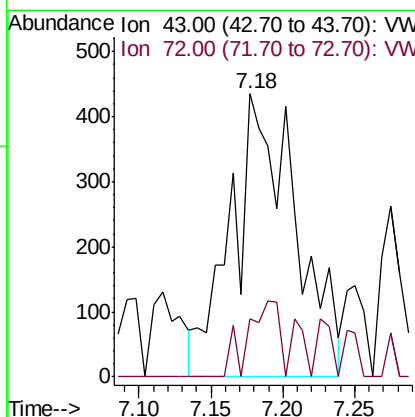
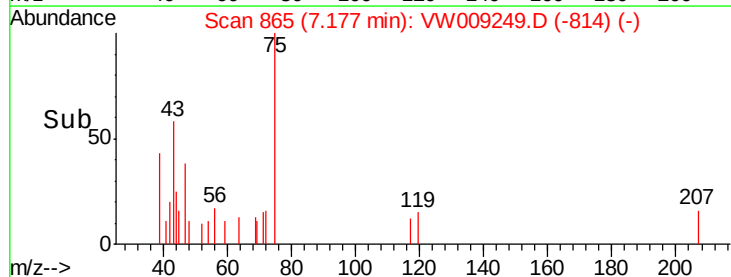


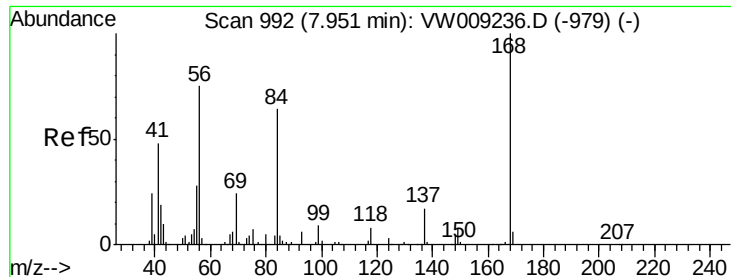
#25  
2-Butanone  
Concen: 1.600 ug/l  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW009249.D  
Acq: 19 Mar 2019 18:47

Tgt Ion: 43 Resp: 1343  
Ion Ratio Lower Upper  
43 100  
72 23.9 20.0 30.0



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

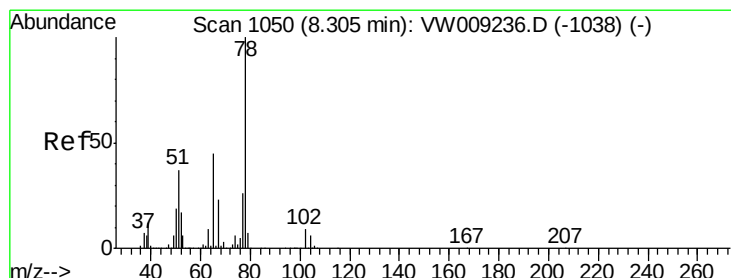
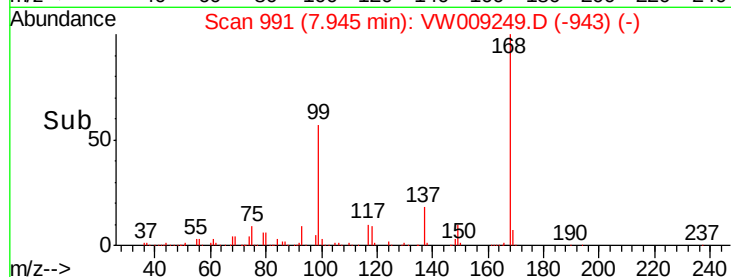
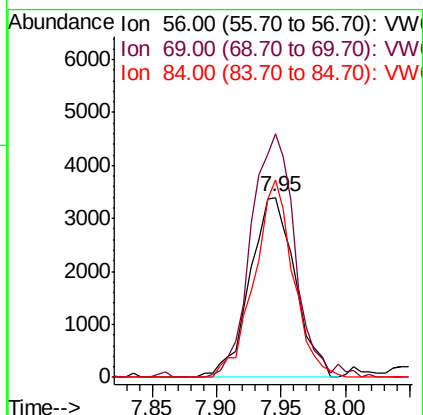
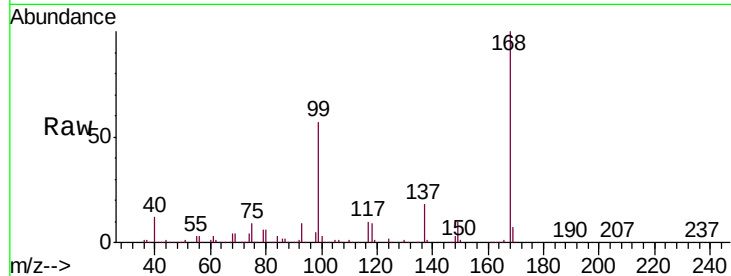




#31  
Cyclohexane  
Concen: 1.760 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW009249.D  
Acq: 19 Mar 2019 18:47

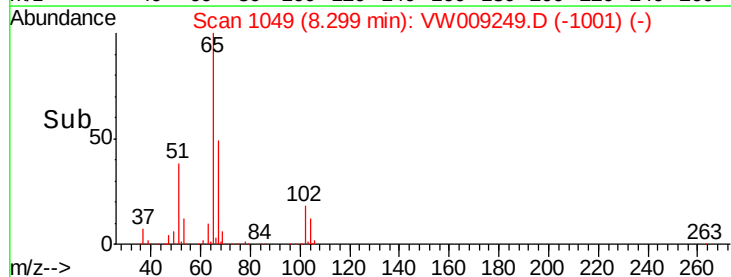
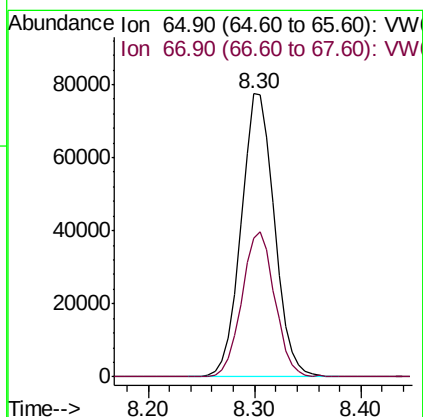
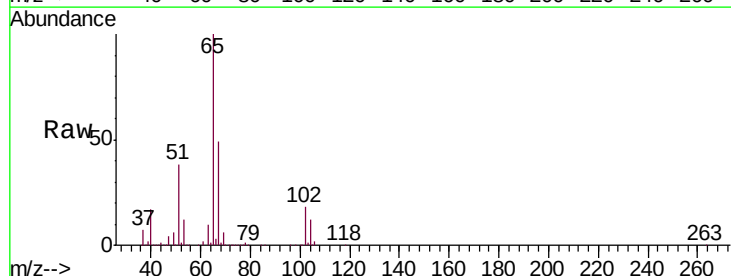
Instrument :  
MSVOA\_W  
ClientSampleId :  
BFD1A

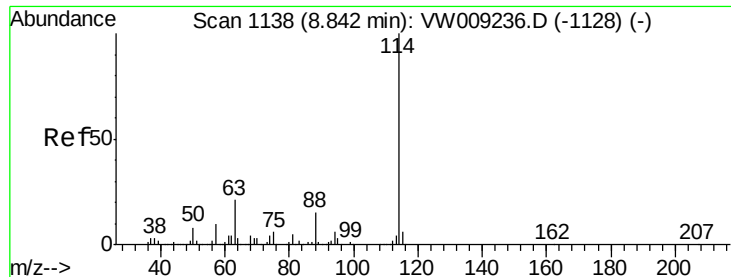
Tgt Ion: 56 Resp: 8246  
Ion Ratio Lower Upper  
56 100  
69 135.4 26.1 39.1#  
84 109.7 68.6 103.0#



#33  
1,2-Dichloroethane-d4  
Concen: 59.547 ug/l  
RT: 8.30 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: VW009249.D  
Acq: 19 Mar 2019 18:47

Tgt Ion: 65 Resp: 170043  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 102.4

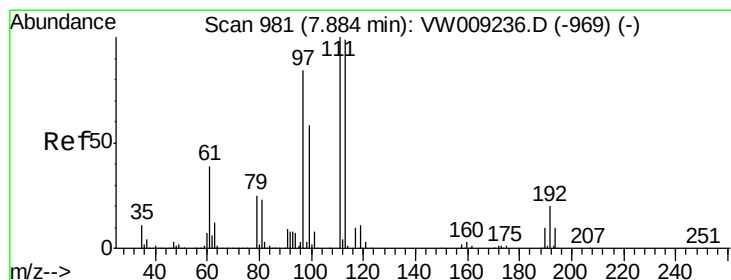
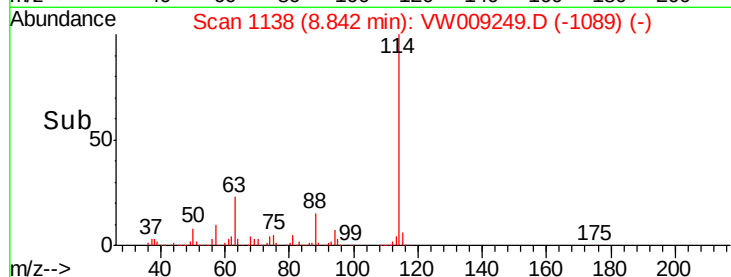
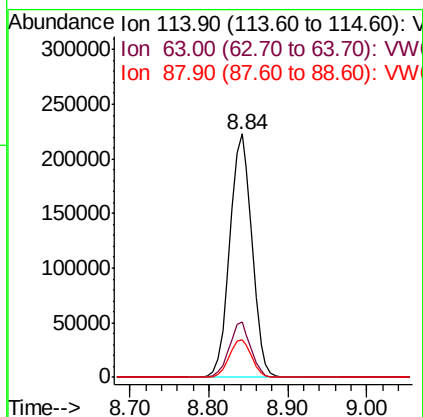
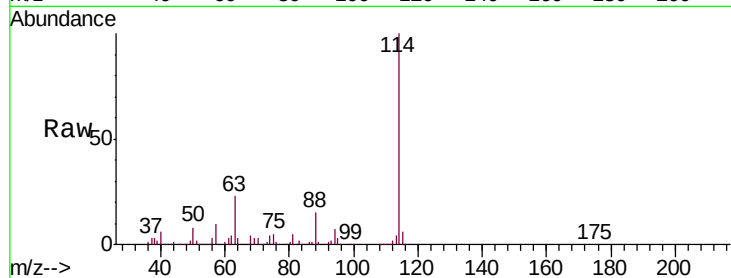




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW009249.D  
 Acq: 19 Mar 2019 18:47

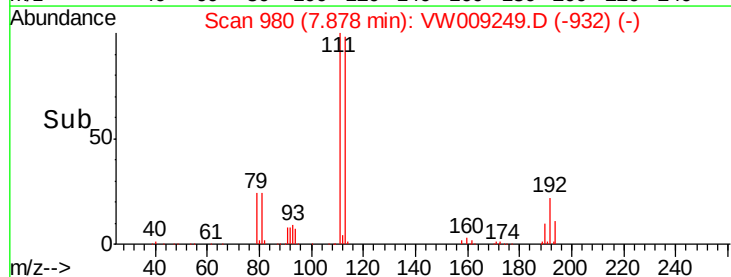
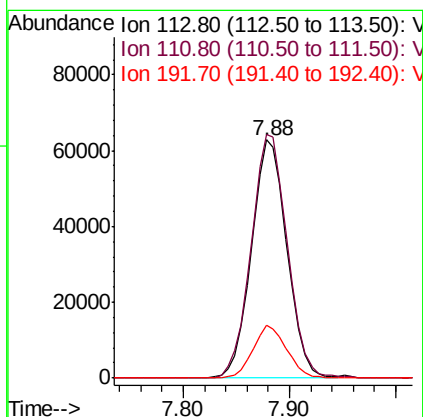
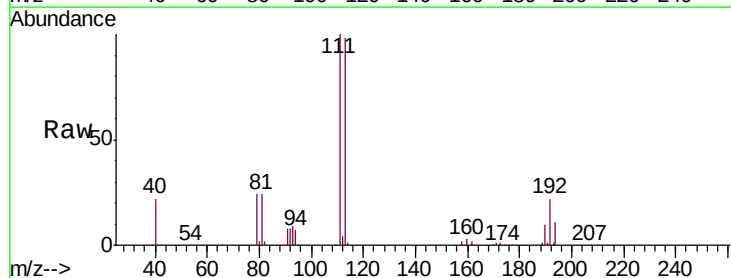
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFD1A

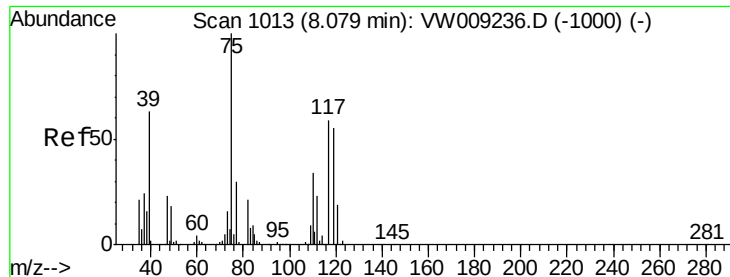
Tgt Ion:114 Resp: 434971  
 Ion Ratio Lower Upper  
 114 100  
 63 22.5 0.0 42.2  
 88 15.3 0.0 30.8



#35  
 Dibromofluoromethane  
 Concen: 53.082 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: VW009249.D  
 Acq: 19 Mar 2019 18:47

Tgt Ion:113 Resp: 146465  
 Ion Ratio Lower Upper  
 113 100  
 111 104.7 82.6 124.0  
 192 21.1 16.4 24.6





#36

1,1-Dichloropropene

Concen: 5.104 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW009249.D

Acq: 19 Mar 2019 18:47

Instrument :

MSVOA\_W

ClientSampled :

BFD1A

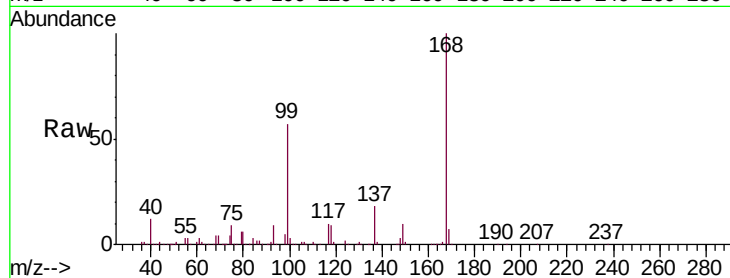
Tgt Ion: 75 Resp: 22093

Ion Ratio Lower Upper

75 100

110 9.2 16.8 50.4#

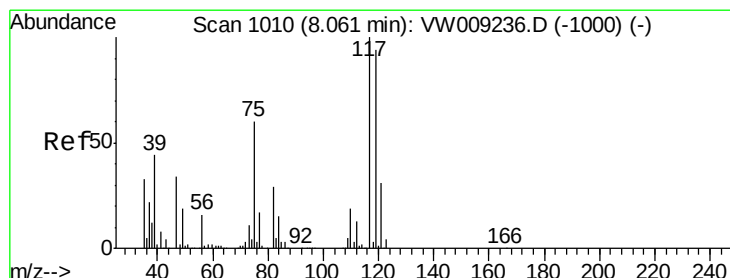
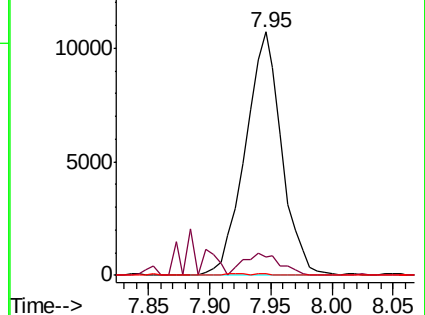
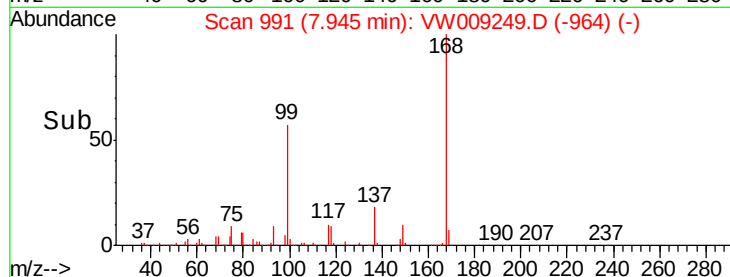
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 5.984 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.12 min

Lab File: VW009249.D

Acq: 19 Mar 2019 18:47

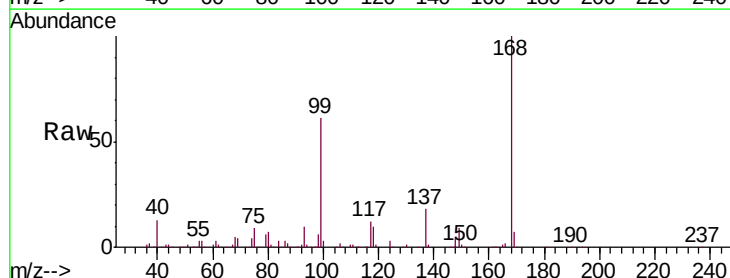
Tgt Ion: 117 Resp: 27411

Ion Ratio Lower Upper

117 100

119 5.2 75.4 113.0#

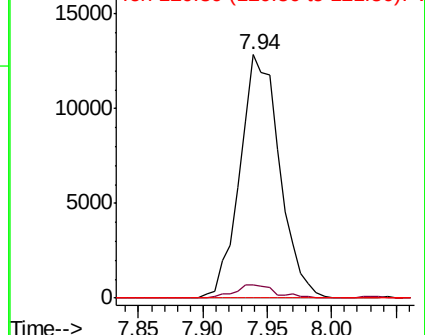
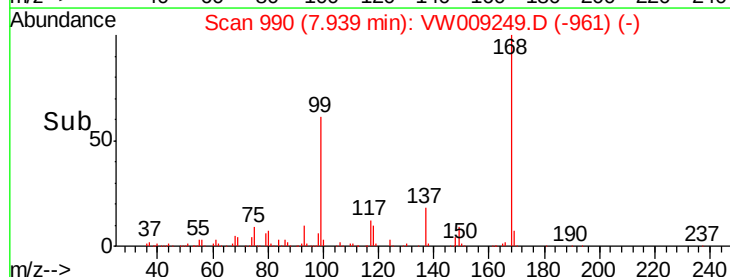
121 0.0 24.9 37.3#



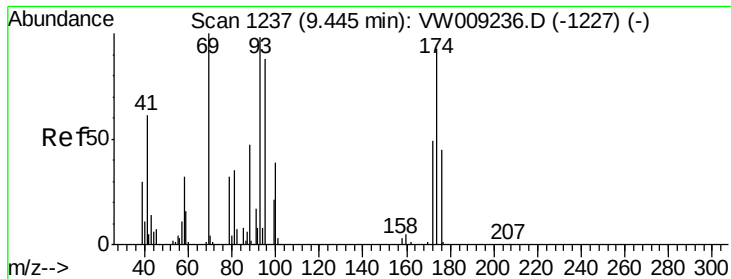
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V







#49

1,4-Dioxane

Concen: 2.436 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. 0.02 min

Lab File: VW009249.D

Acq: 19 Mar 2019 18:47

Instrument :

MSVOA\_W

ClientSampleId :

BFD1A

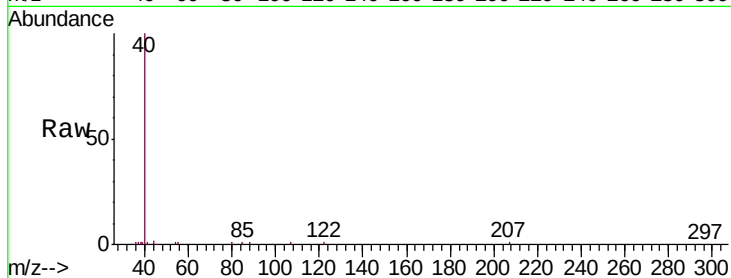
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 0.0 29.7 44.5#

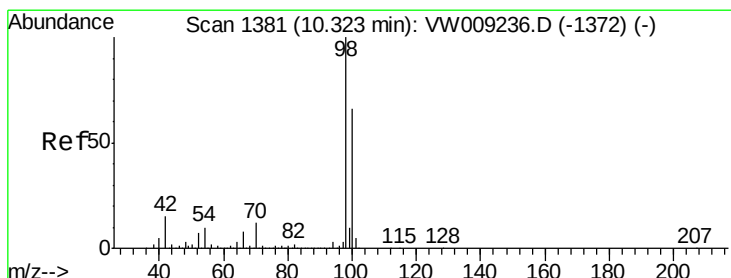
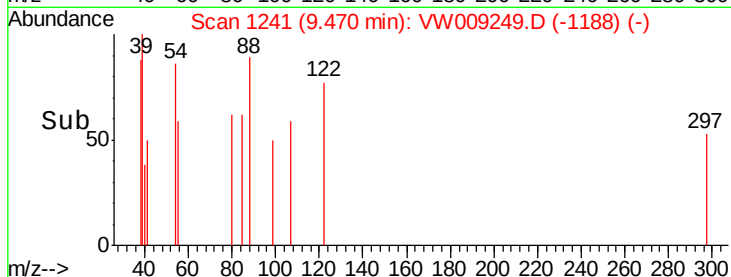
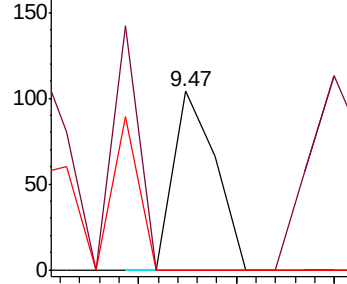
58 0.0 58.1 87.1#



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: 52.779 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009249.D

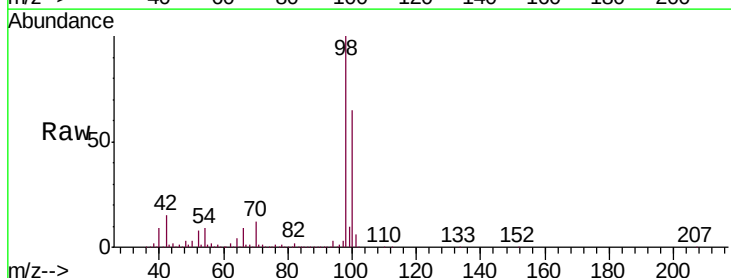
Acq: 19 Mar 2019 18:47

Tgt Ion: 98 Resp: 529227

Ion Ratio Lower Upper

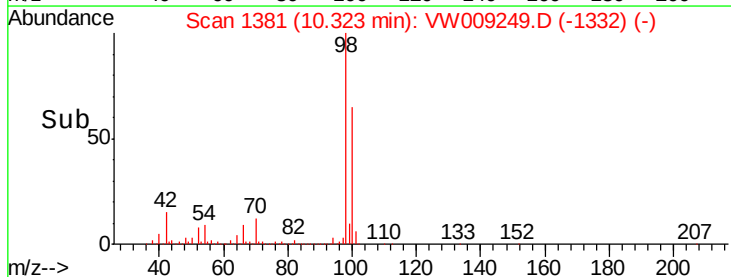
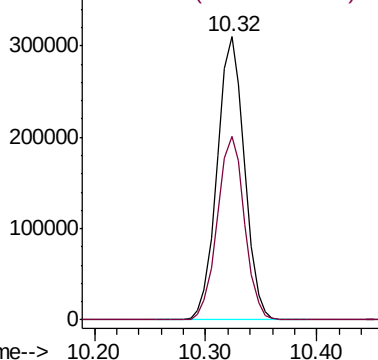
98 100

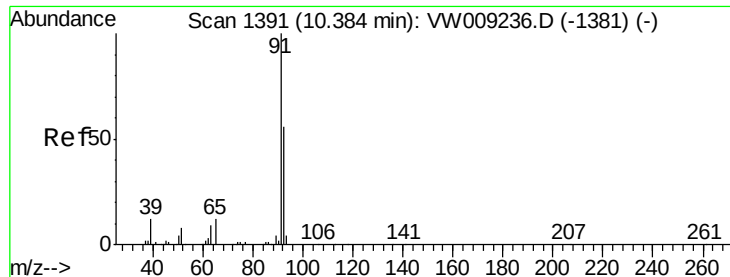
100 64.7 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.731 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009249.D

Acq: 19 Mar 2019 18:47

Instrument :

MSVOA\_W

ClientSampleId :

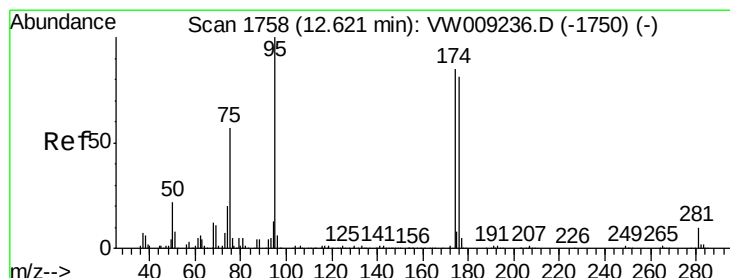
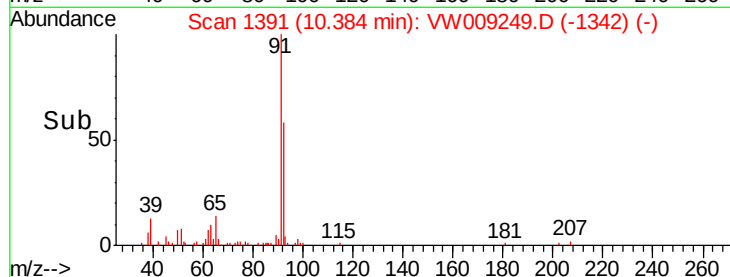
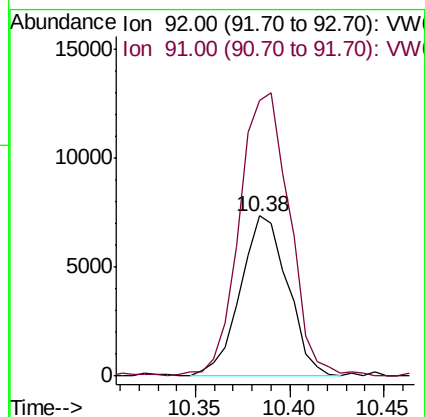
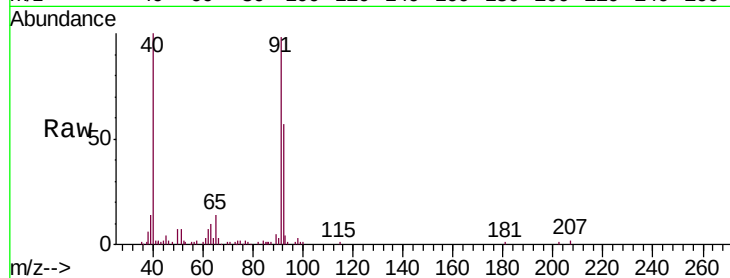
BFD1A

Tgt Ion: 92 Resp: 12877

Ion Ratio Lower Upper

92 100

91 186.4 140.1 210.1



#62

4-Bromofluorobenzene

Concen: 50.530 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009249.D

Acq: 19 Mar 2019 18:47

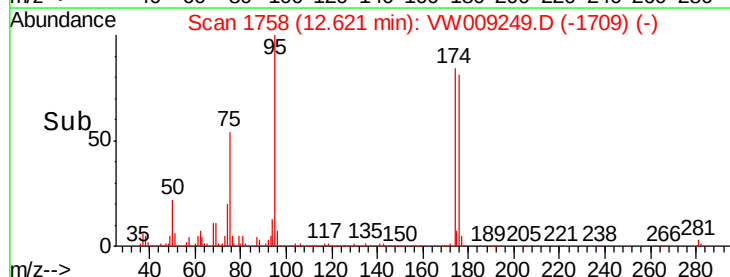
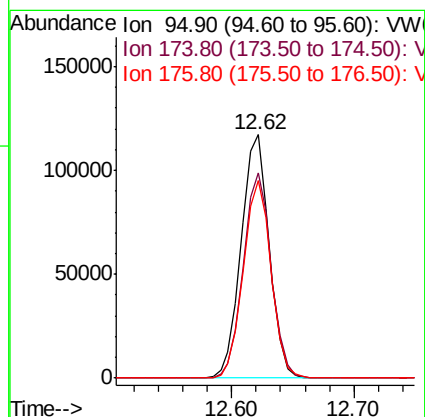
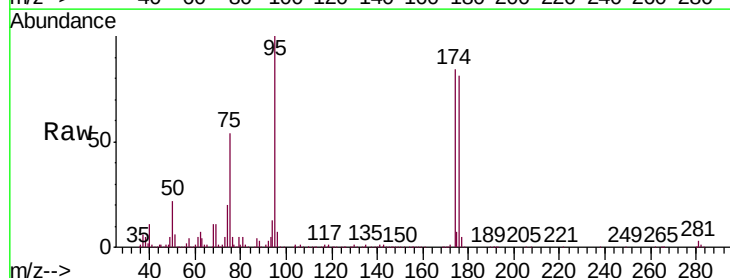
Tgt Ion: 95 Resp: 186032

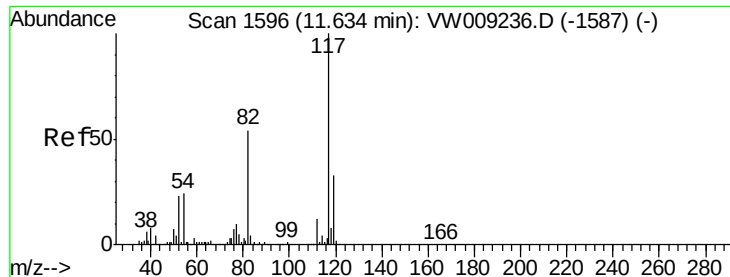
Ion Ratio Lower Upper

95 100

174 83.8 0.0 168.4

176 80.5 0.0 161.6

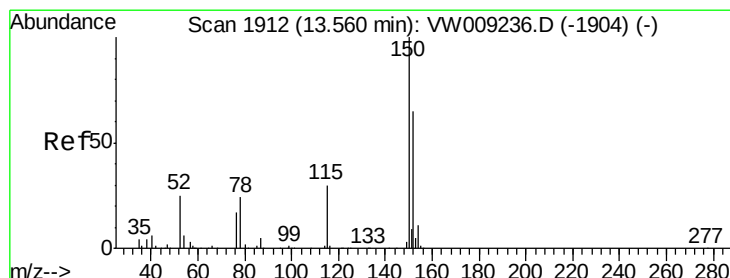
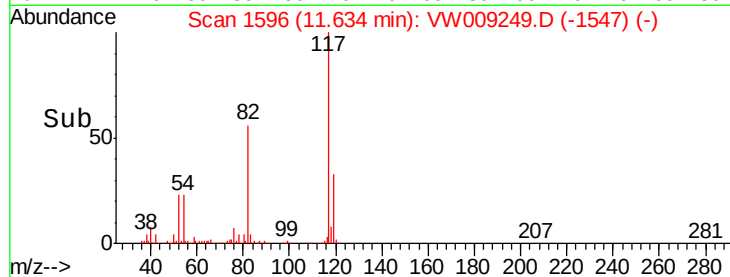
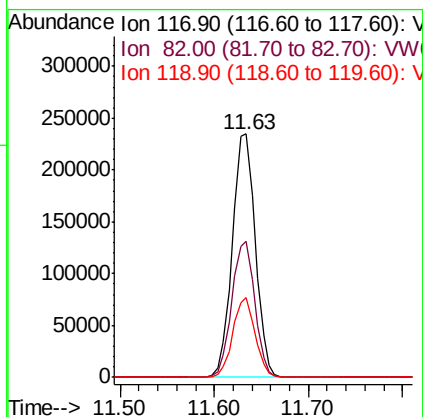
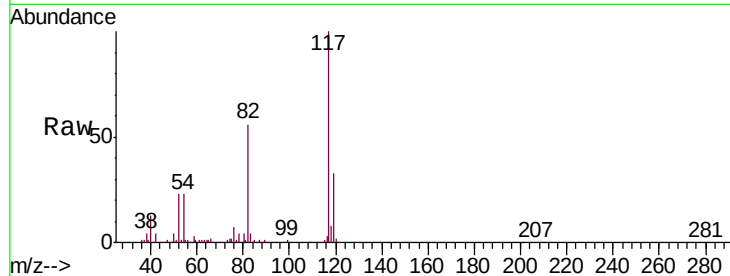




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW009249.D  
Acq: 19 Mar 2019 18:47

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFD1A

Tgt Ion:117 Resp: 397645  
Ion Ratio Lower Upper  
117 100  
82 56.1 43.6 65.4  
119 32.8 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW009249.D  
Acq: 19 Mar 2019 18:47

Tgt Ion:152 Resp: 199100  
Ion Ratio Lower Upper  
152 100  
115 58.5 29.6 88.8  
150 157.2 0.0 349.2

