

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW041819\  
 Data File : VW010039.D  
 Acq On : 18 Apr 2019 12:15  
 Operator : SY/VA  
 Sample : VW0418SBL01  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0418SBL01

Quant Time: Apr 18 12:37:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W041719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 02:23:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 378122   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 653714   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 577739   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 270969   | 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   | 268759   | 57.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 115.20% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 223224   | 53.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.42% |          |
| 50) Toluene-d8              | 10.32 | 98   | 856093   | 54.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.94% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 280617   | 49.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.14%  |          |

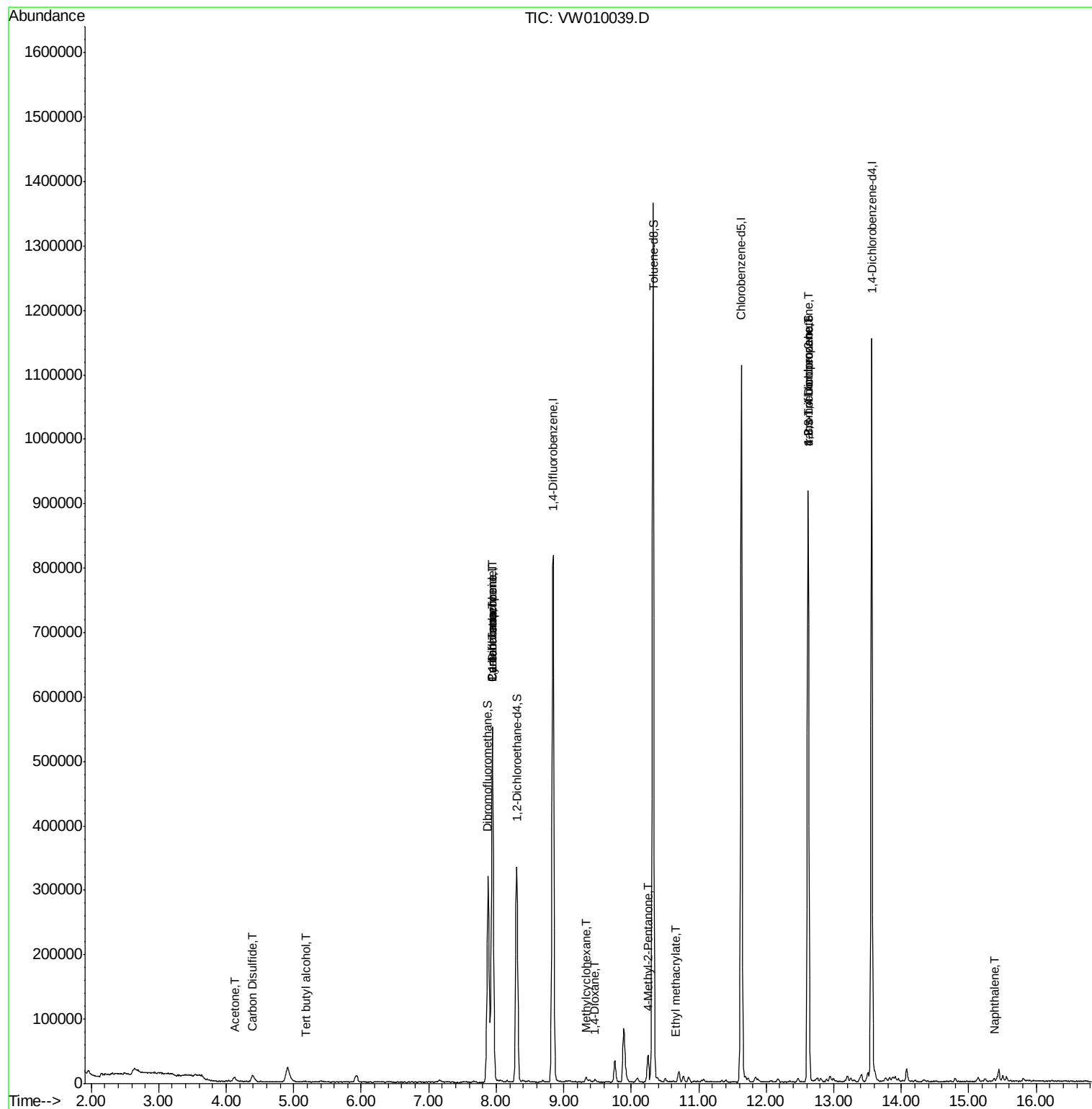
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 1505     | 5.662   | ug/l # | 71     |
| 16) Acetone                    | 4.12  | 43   | 14182    | 13.099  | ug/l   | 98     |
| 17) Carbon Disulfide           | 4.38  | 76   | 405      | 1.374   | ug/l # | 74     |
| 31) Cyclohexane                | 7.94  | 56   | 11176    | 1.481   | ug/l # | 21     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 34575    | 5.178   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 41501    | 6.368   | ug/l # | 17     |
| 39) Methylcyclohexane          | 9.32  | 83   | 1743     | 1.407   | ug/l # | 60     |
| 49) 1,4-Dioxane                | 9.46  | 88   | 66       | 1.737   | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 10.25 | 43   | 6699     | 2.012   | ug/l # | 79     |
| 56) Ethyl methacrylate         | 10.65 | 69   | 401      | 2.720   | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 154215   | 56.864  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 154215   | 134.083 | ug/l # | 5      |
| 95) Naphthalene                | 15.38 | 128  | 3877     | 2.997   | ug/l   | 97     |

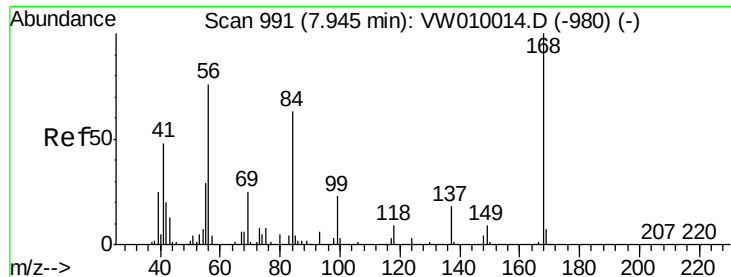
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW041819\  
Data File : VW010039.D  
Acq On : 18 Apr 2019 12:15  
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Sample : VW0418SBL01  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0418SBL01

Quant Time: Apr 18 12:37:54 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W041719S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 18 02:23:40 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

Instrument :

MSVOA\_W

ClientSampleId :

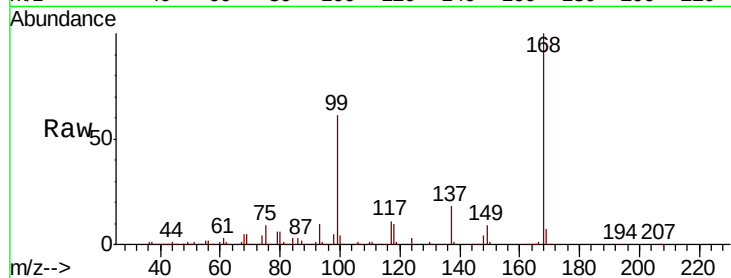
VW0418SBL01

Tgt Ion:168 Resp: 378122

Ion Ratio Lower Upper

168 100

99 60.6 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

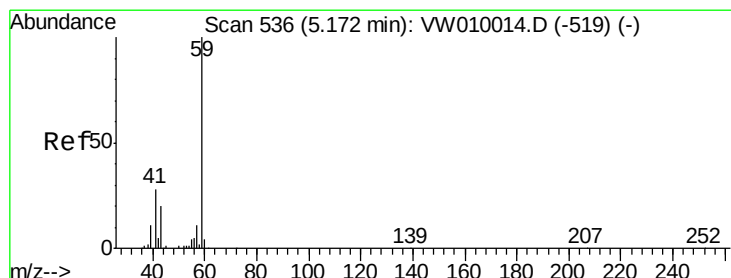
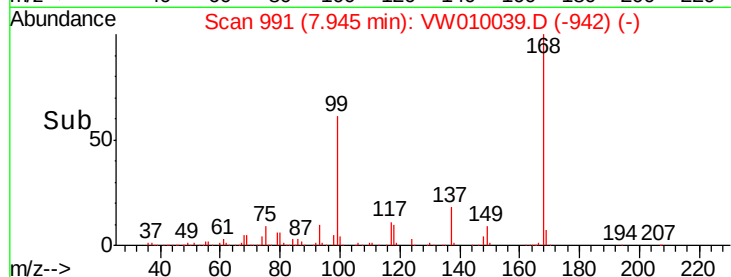
100000

50000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 5.662 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW010039.D

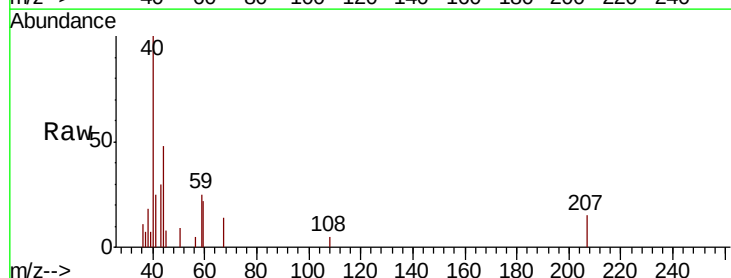
Acq: 18 Apr 2019 12:15

Tgt Ion: 59 Resp: 1505

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

600

500

400

300

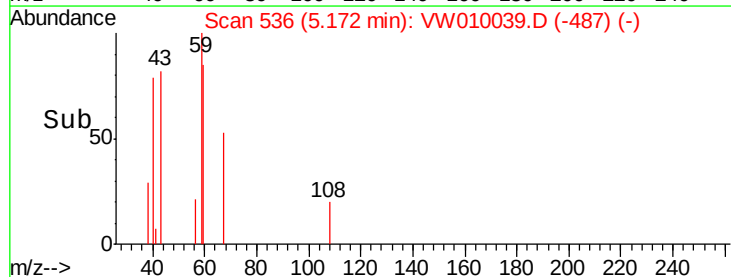
200

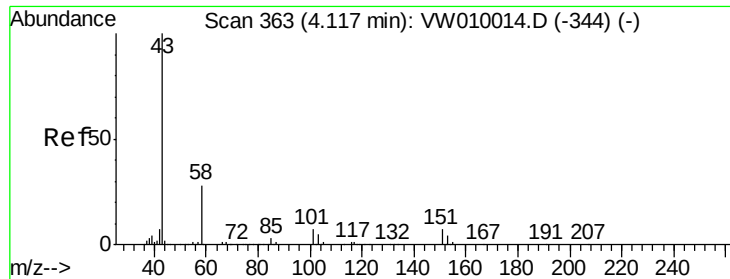
100

0

5.05 5.10 5.15 5.20 5.25

Time-->





#16

Acetone

Concen: 13.099 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

Instrument :

MSVOA\_W

ClientSampled :

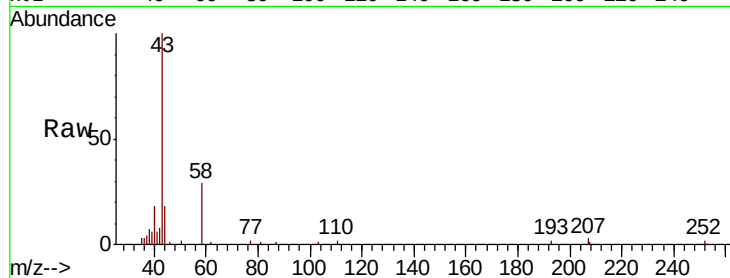
VW0418SBL01

Tgt Ion: 43 Resp: 14182

Ion Ratio Lower Upper

43 100

58 29.2 22.7 34.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

5000

4000

3000

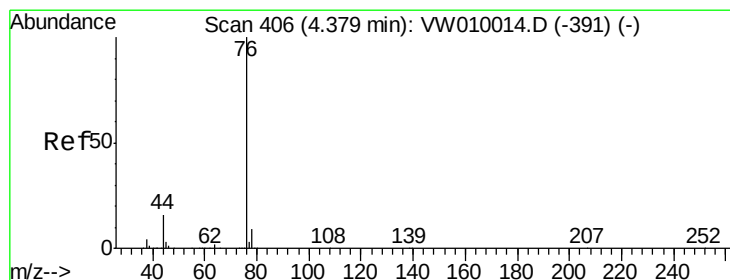
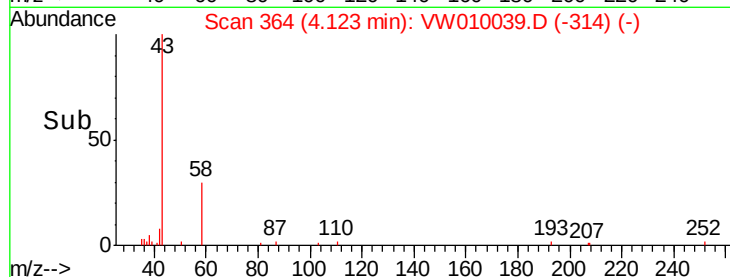
2000

1000

0

4.00 4.10 4.20

Time-->



#17

Carbon Disulfide

Concen: 1.374 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW010039.D

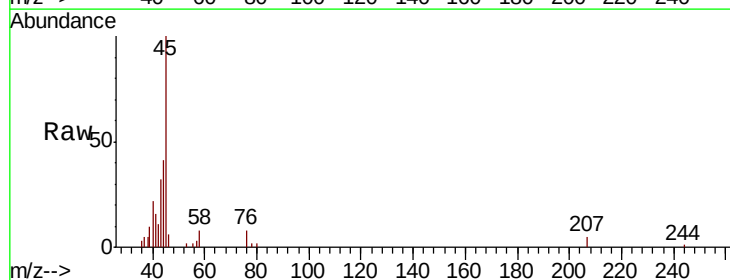
Acq: 18 Apr 2019 12:15

Tgt Ion: 76 Resp: 405

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.38

400

300

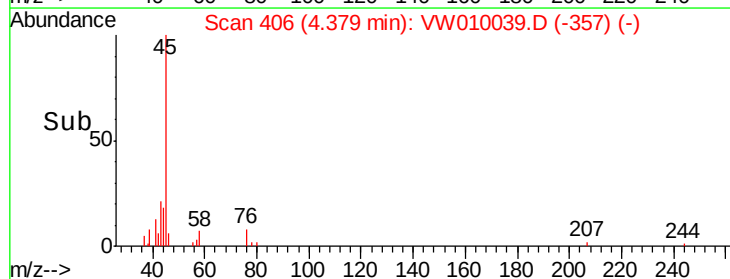
200

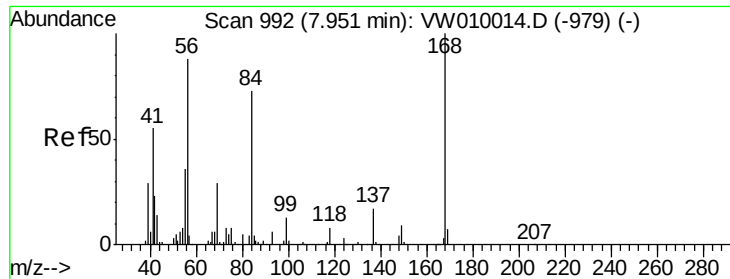
100

0

4.36 4.38 4.40 4.42

Time-->

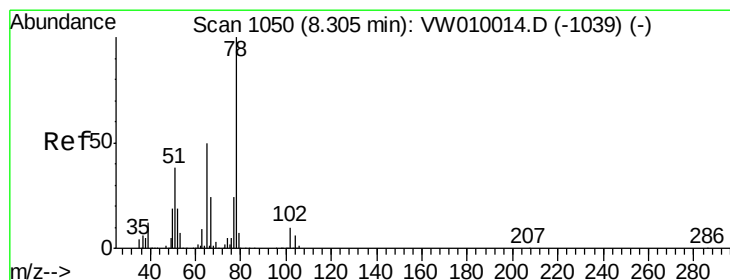
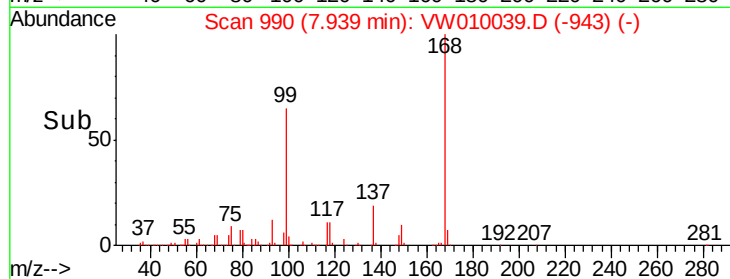
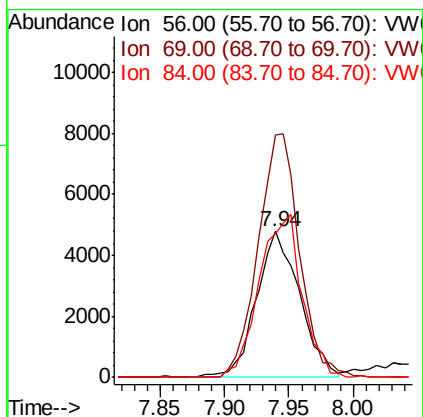
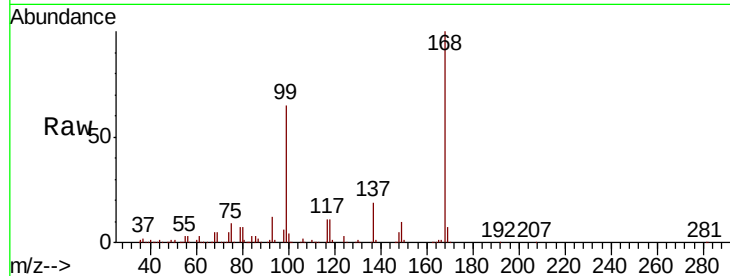




#31  
Cyclohexane  
Concen: 1.481 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: VW010039.D  
Acq: 18 Apr 2019 12:15

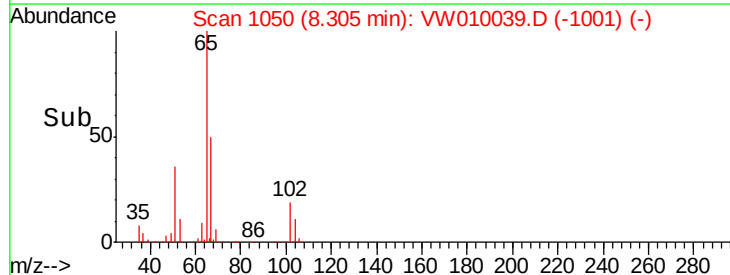
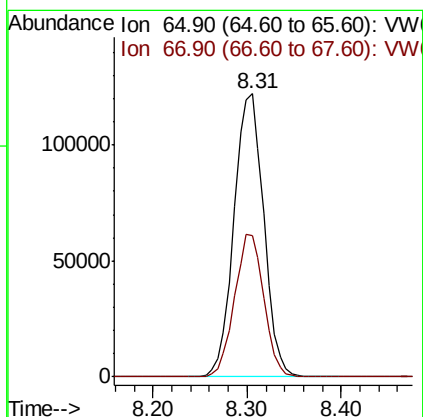
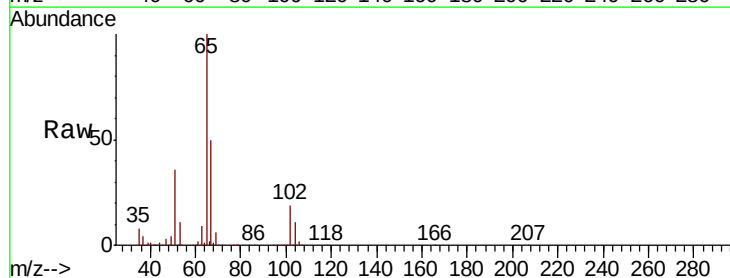
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0418SBL01

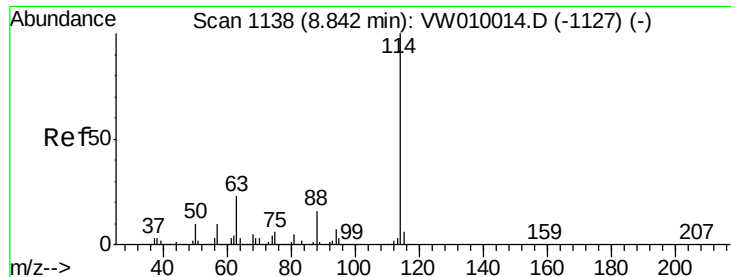
Tgt Ion: 56 Resp: 11176  
Ion Ratio Lower Upper  
56 100  
69 165.7 26.6 40.0#  
84 98.2 66.2 99.2



#33  
1,2-Dichloroethane-d4  
Concen: 57.597 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VW010039.D  
Acq: 18 Apr 2019 12:15

Tgt Ion: 65 Resp: 268759  
Ion Ratio Lower Upper  
65 100  
67 49.4 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

Instrument :

MSVOA\_W

ClientSampleId :

VW0418SBL01

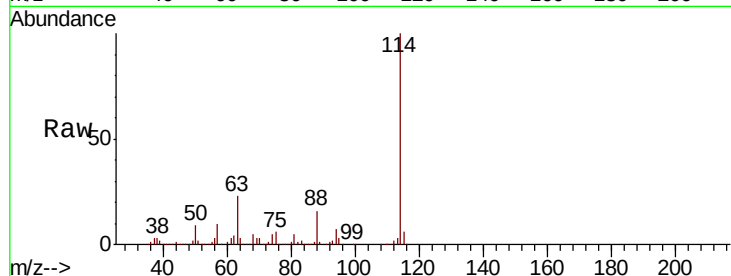
Tgt Ion:114 Resp: 653714

Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.2

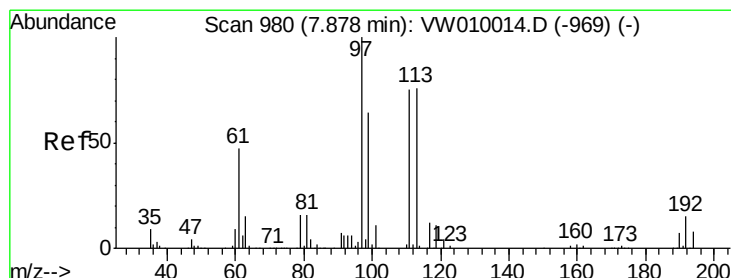
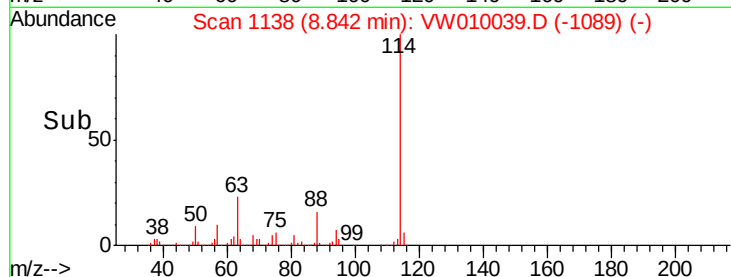
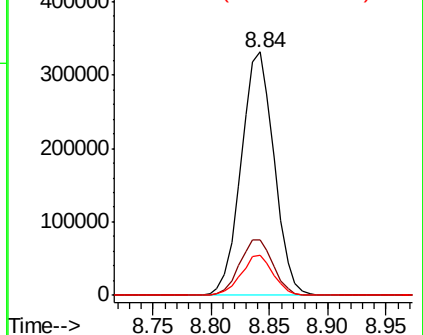
88 16.4 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 53.710 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

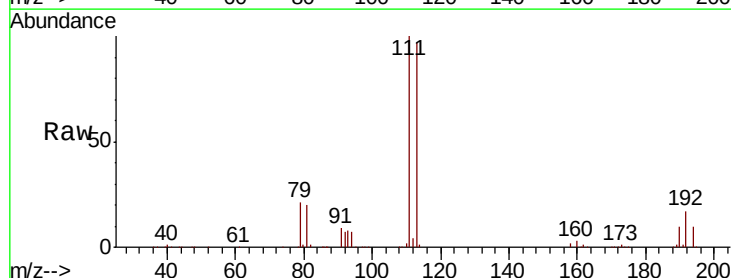
Tgt Ion:113 Resp: 223224

Ion Ratio Lower Upper

113 100

111 101.9 82.6 123.8

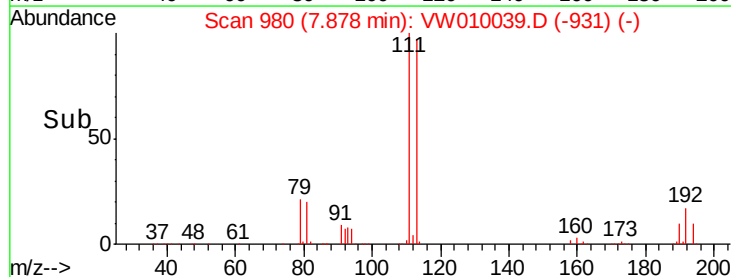
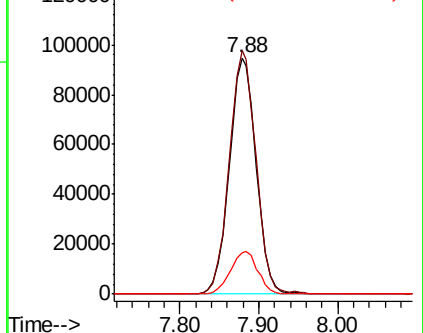
192 18.5 15.4 23.2

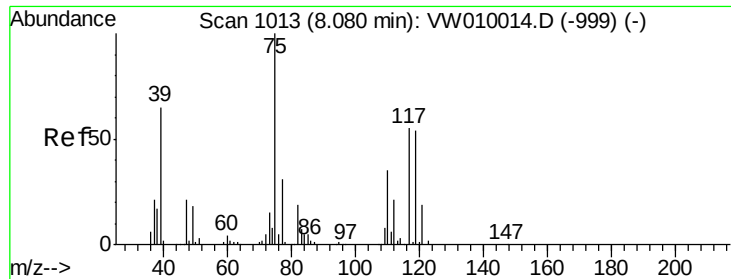


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

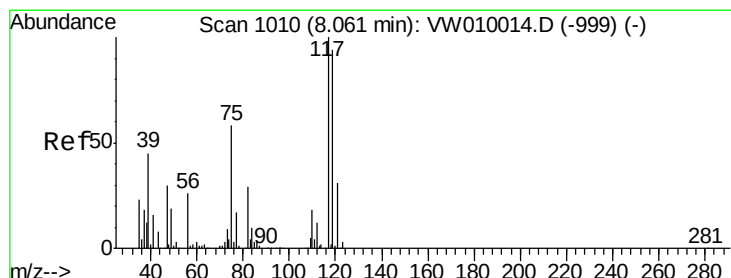
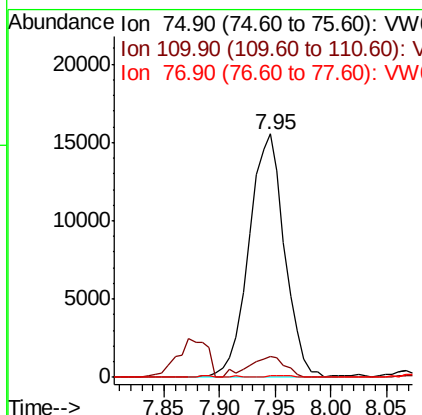
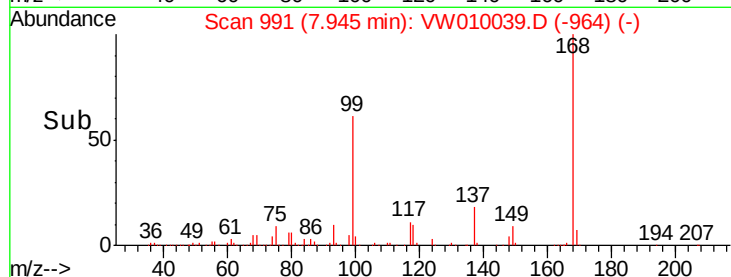
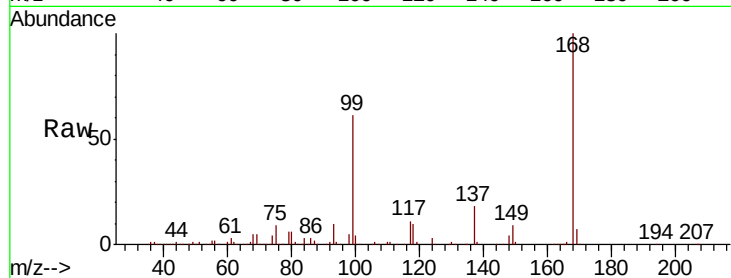




#36  
 1,1-Dichloropropene  
 Concen: 5.178 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW010039.D  
 Acq: 18 Apr 2019 12:15

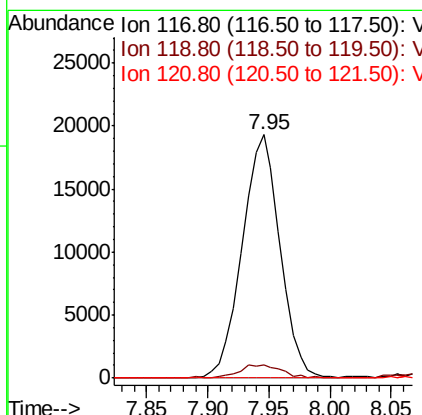
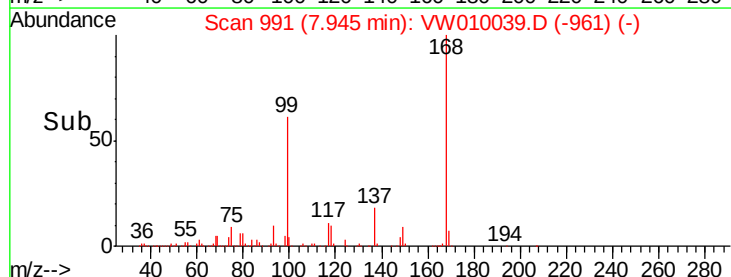
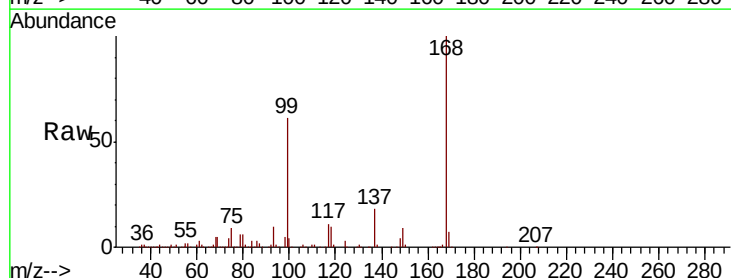
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0418SBL01

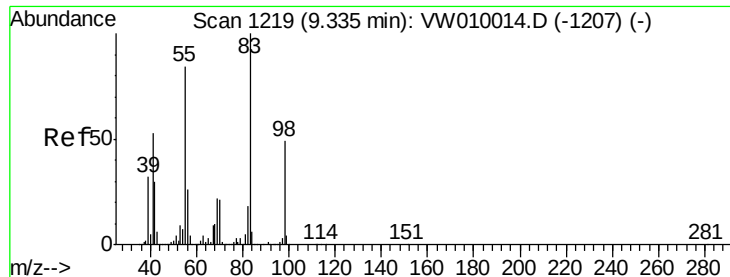
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.9   | 16.6  | 49.8# |
| 77      | 0.6   | 24.8  | 37.2# |



#38  
 Carbon Tetrachloride  
 Concen: 6.368 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW010039.D  
 Acq: 18 Apr 2019 12:15

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.4   | 75.3  | 112.9# |
| 121     | 0.0   | 24.4  | 36.6#  |





#39

Methylcyclohexane

Concen: 1.407 ug/l

RT: 9.32 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

Instrument :

MSVOA\_W

ClientSampleId :

VW0418SBL01

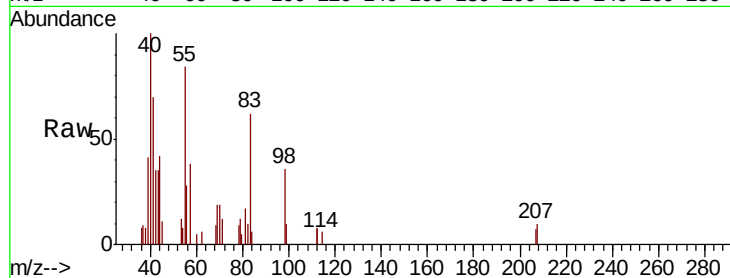
Tgt Ion: 83 Resp: 1743

Ion Ratio Lower Upper

83 100

55 134.5 67.1 100.7#

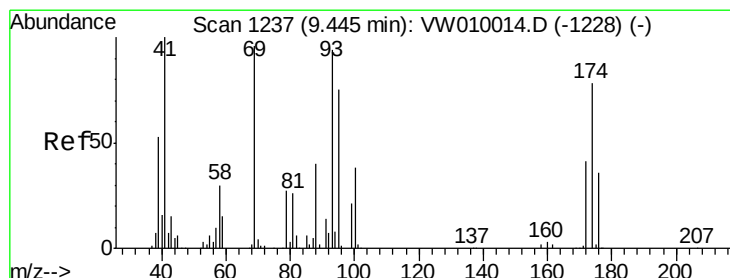
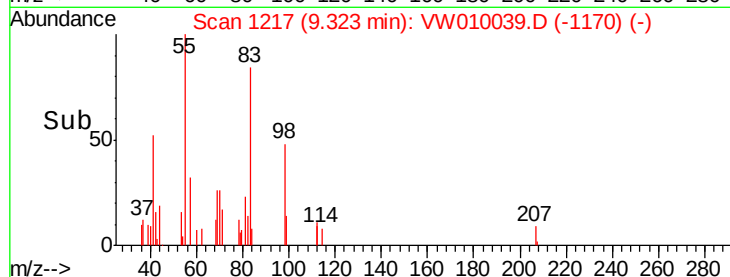
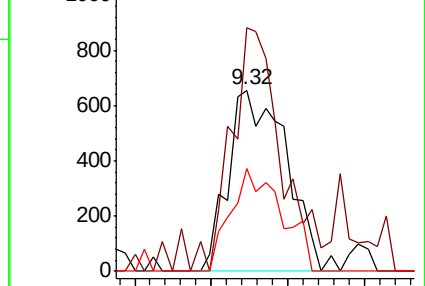
98 57.1 39.2 58.8



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW



#49

1,4-Dioxane

Concen: 1.737 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.01 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

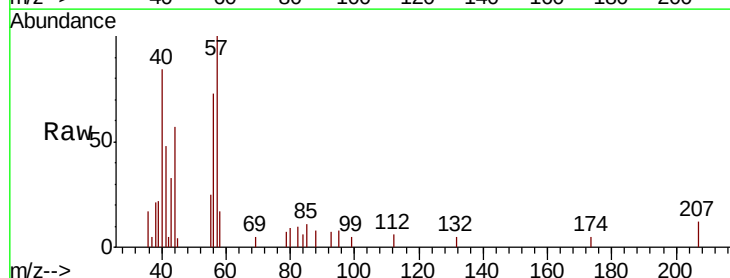
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 737.9 31.9 47.9#

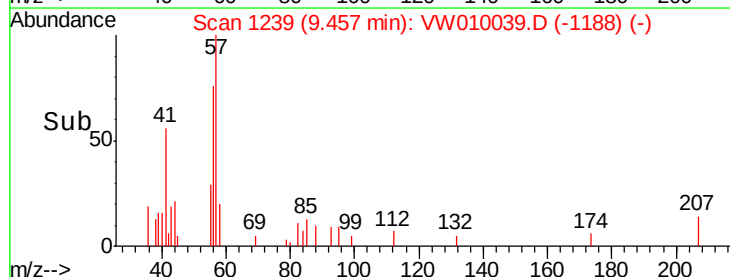
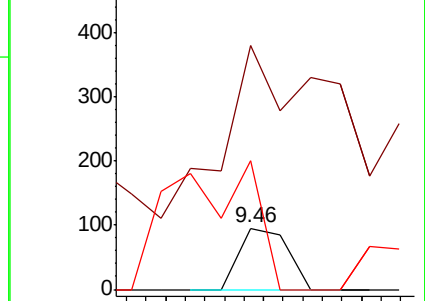
58 357.6 61.8 92.6#



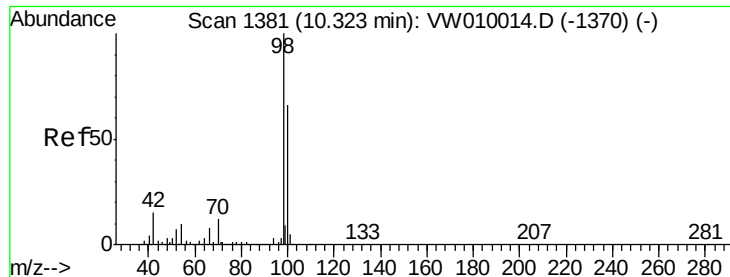
Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



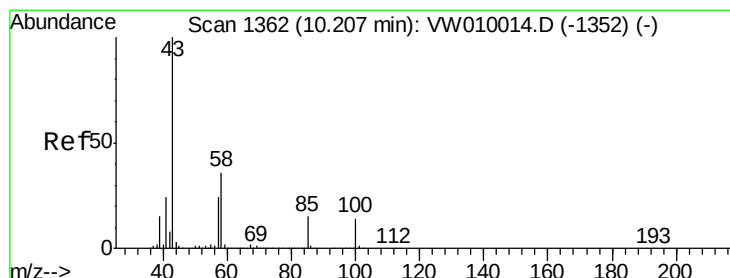
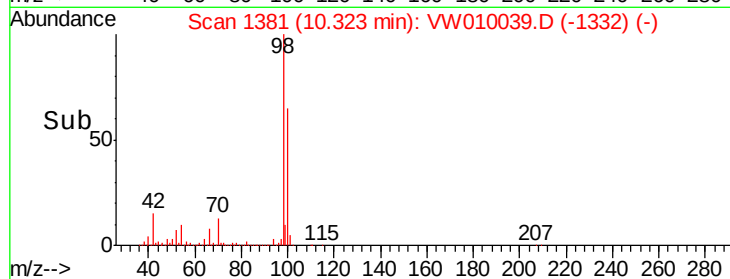
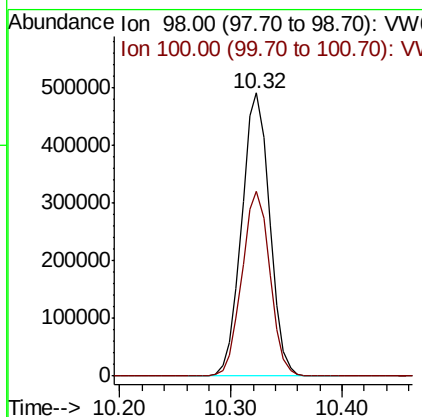
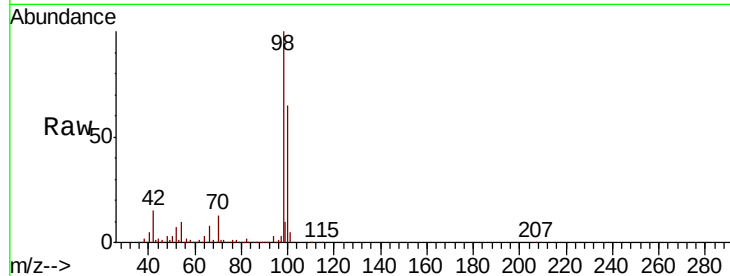




#50  
Toluene-d8  
Concen: 54.971 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW010039.D  
Acq: 18 Apr 2019 12:15

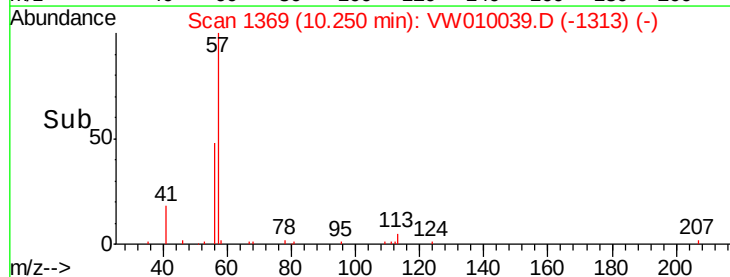
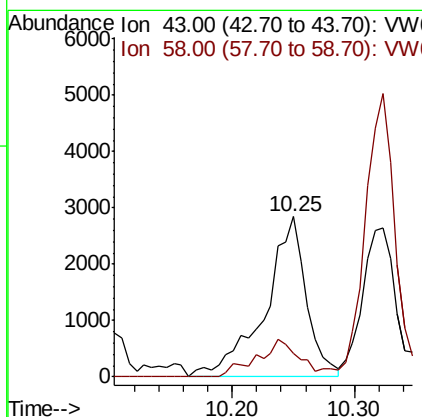
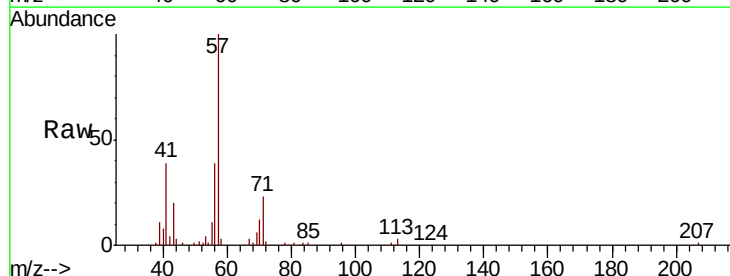
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0418SBL01

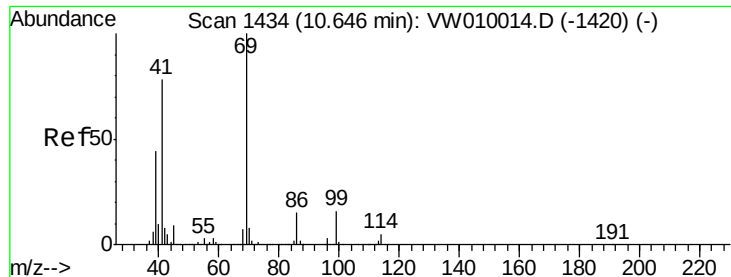
Tgt Ion: 98 Resp: 856093  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.3 78.5



#51  
4-Methyl-2-Pentanone  
Concen: 2.012 ug/l  
RT: 10.25 min Scan# 1369  
Delta R.T. 0.04 min  
Lab File: VW010039.D  
Acq: 18 Apr 2019 12:15

Tgt Ion: 43 Resp: 6699  
Ion Ratio Lower Upper  
43 100  
58 23.7 28.9 43.3#





#56

Ethyl methacrylate

Concen: 2.720 ug/l

RT: 10.65 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

Instrument :

MSVOA\_W

ClientSampleId :

VW0418SBL01

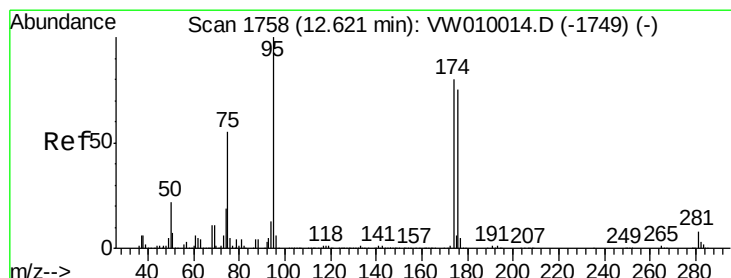
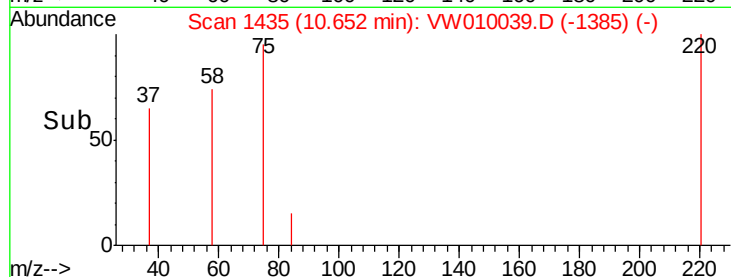
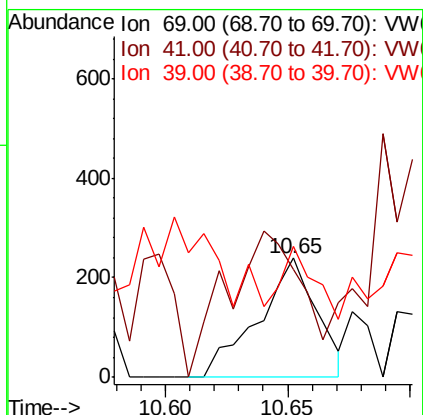
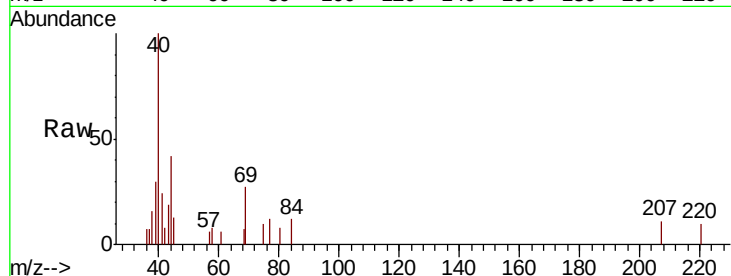
Tgt Ion: 69 Resp: 401

Ion Ratio Lower Upper

69 100

41 155.9 61.0 91.6#

39 62.1 33.8 50.6#



#62

4-Bromofluorobenzene

Concen: 49.571 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

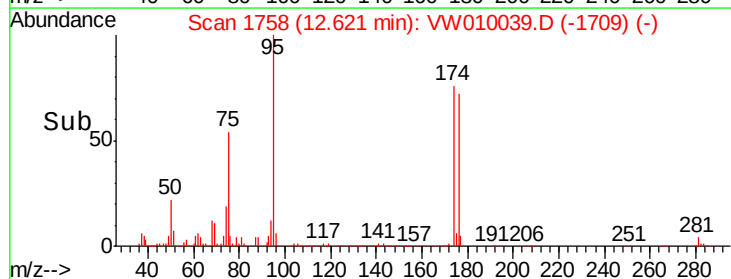
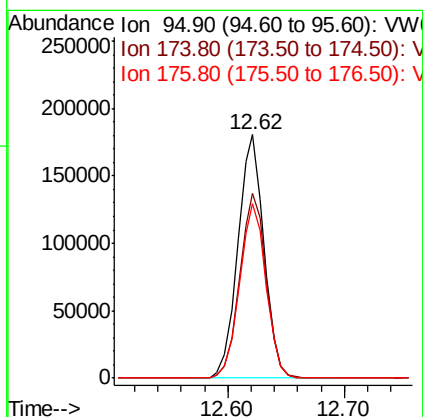
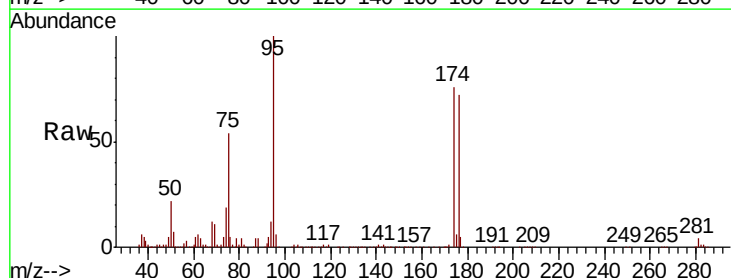
Tgt Ion: 95 Resp: 280617

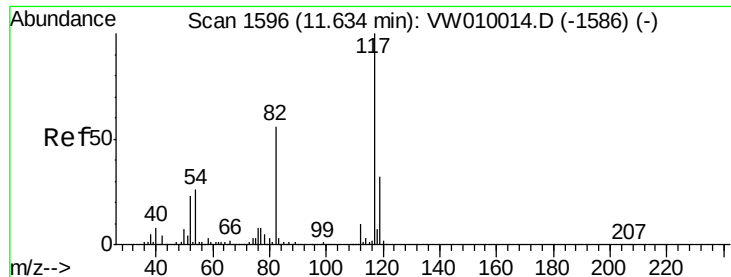
Ion Ratio Lower Upper

95 100

174 76.9 0.0 151.4

176 72.6 0.0 146.2

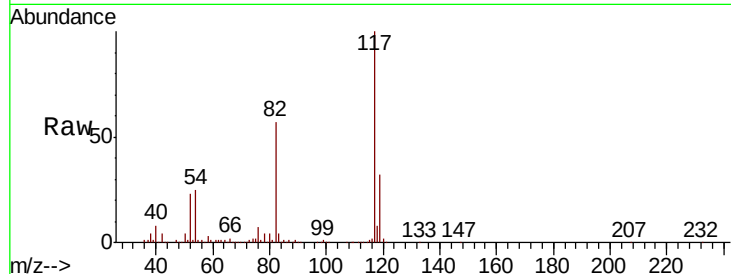




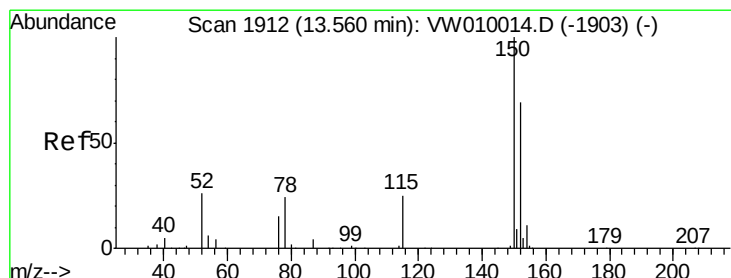
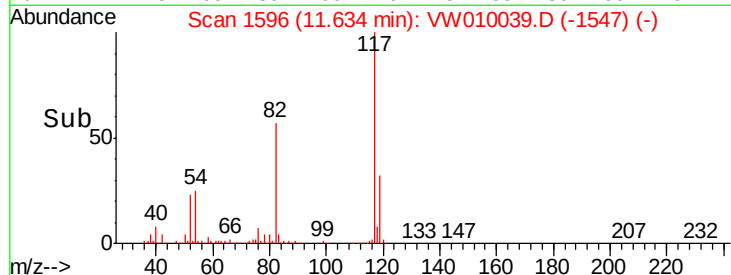
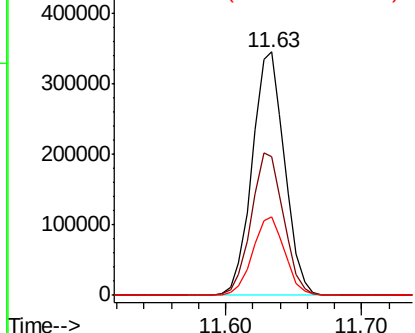
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW010039.D  
Acq: 18 Apr 2019 12:15

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0418SBL01

Tgt Ion:117 Resp: 577739  
Ion Ratio Lower Upper  
117 100  
82 56.7 45.2 67.8  
119 32.3 25.4 38.2

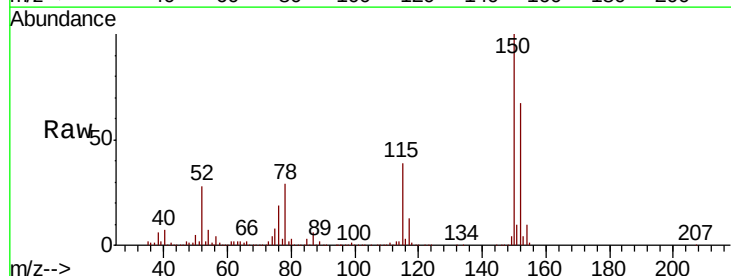


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

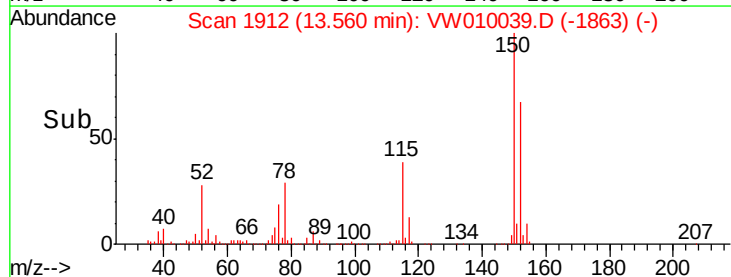
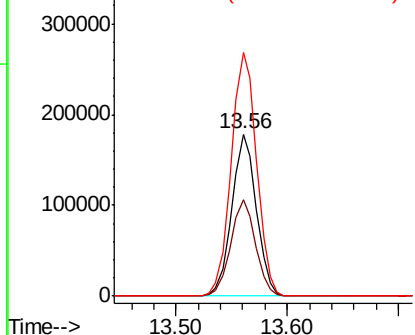


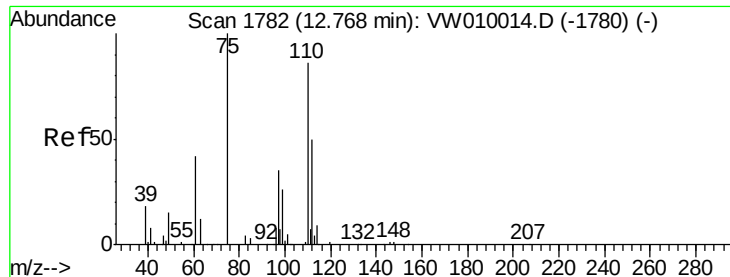
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW010039.D  
Acq: 18 Apr 2019 12:15

Tgt Ion:152 Resp: 270969  
Ion Ratio Lower Upper  
152 100  
115 59.7 30.4 91.2  
150 156.3 0.0 347.0



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: 56.864 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

Instrument :

MSVOA\_W

ClientSampleId :

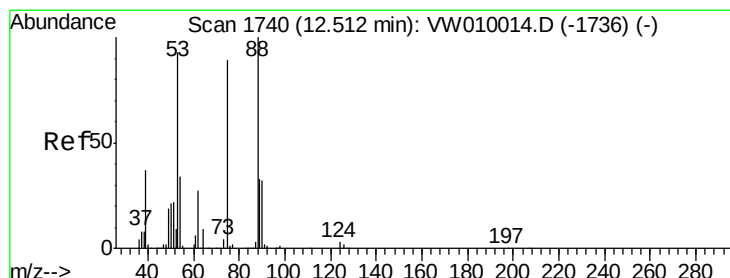
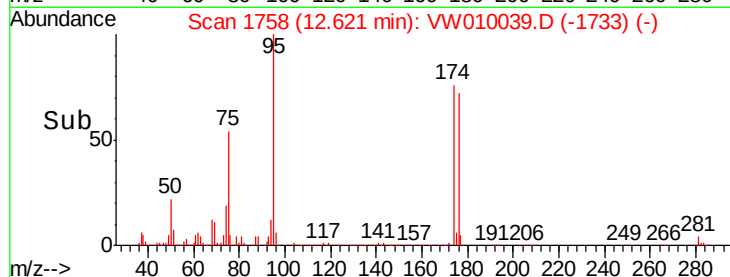
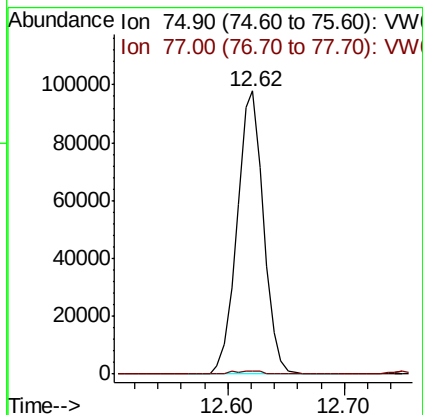
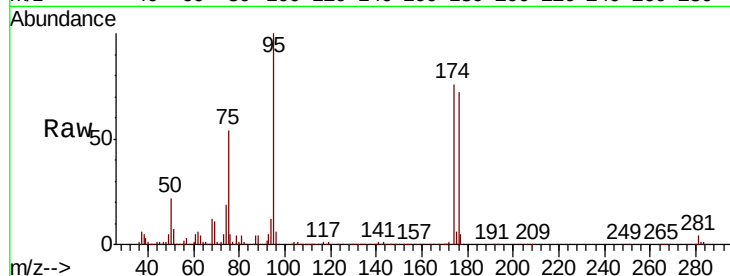
VW0418SBL01

Tgt Ion: 75 Resp: 154215

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 134.083 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

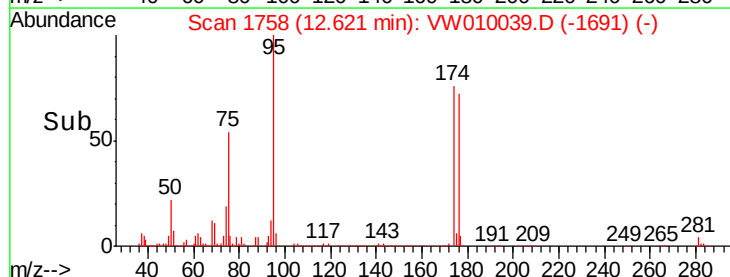
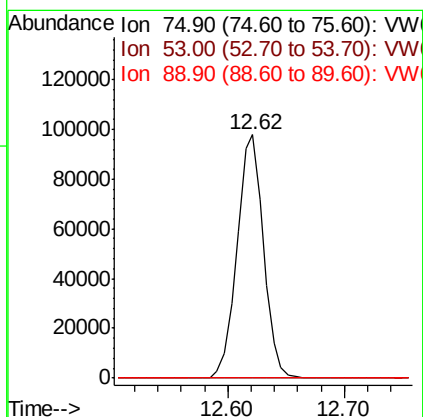
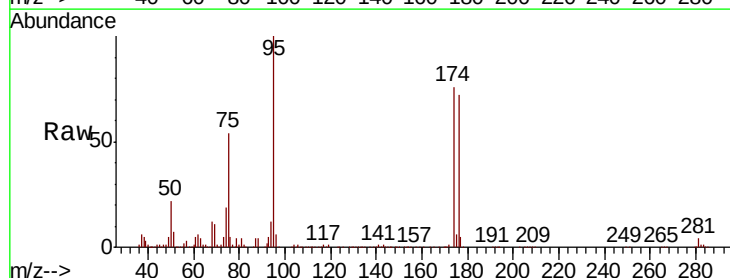
Tgt Ion: 75 Resp: 154215

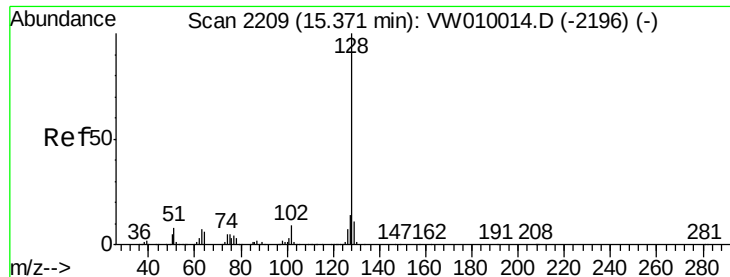
Ion Ratio Lower Upper

75 100

53 0.2 89.8 134.8#

89 0.1 36.6 54.8#





#95

Naphthalene

Concen: 2.997 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW010039.D

Acq: 18 Apr 2019 12:15

Instrument :

MSVOA\_W

ClientSampleId :

VW0418SBL01

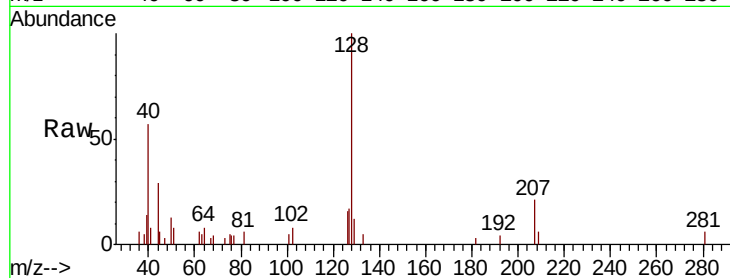
Tgt Ion:128 Resp: 3877

Ion Ratio Lower Upper

128 100

127 11.0 10.6 15.8

129 11.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

