

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW051018\  
 Data File : VW002387.D  
 Acq On : 10 May 2018 18:06  
 Operator : JC/SY  
 Sample : J2759-04RE  
 Misc : 4.91G/5ML/MSVOA W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: May 11 04:53:22 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W050818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 08 03:57:58 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 173133   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 272144   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 214968   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 79615    | 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   | 86140    | 46.85 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.70% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 46828    | 26.85 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 53.70% |          |
| 50) Toluene-d8              | 10.33 | 98   | 235457   | 35.40 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 70.80% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 74114    | 30.83 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 61.66% |          |

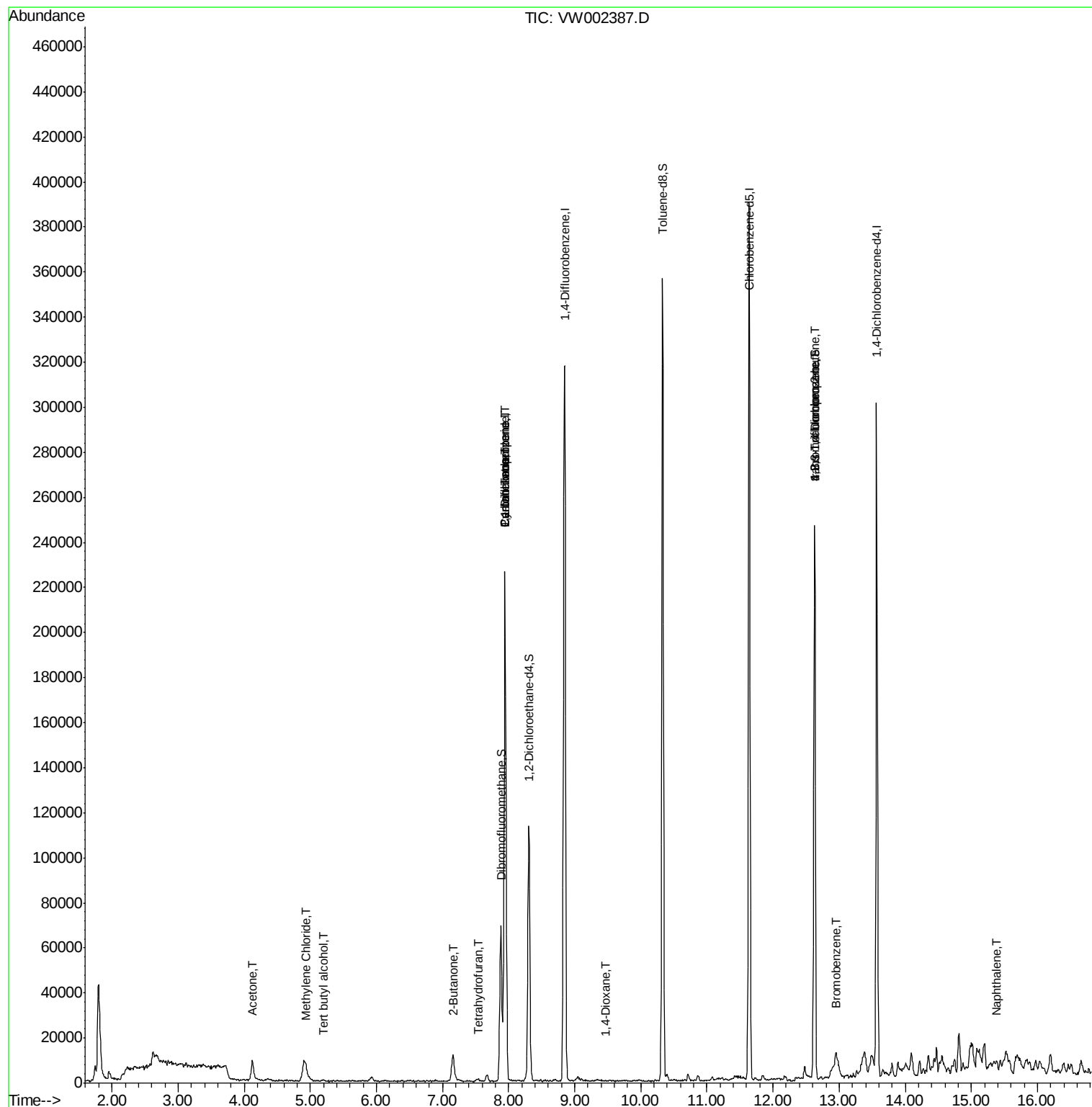
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59   | 303      | 2.27   | ug/l # | 85     |
| 16) Acetone                    | 4.12  | 43   | 14173    | 39.47  | ug/l # | 88     |
| 20) Methylene Chloride         | 4.93  | 84   | 8858     | 5.12   | ug/l # | 79     |
| 25) 2-Butanone                 | 7.18  | 43   | 1468     | 2.75   | ug/l # | 86     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 582      | 1.66   | ug/l # | 78     |
| 31) Cyclohexane                | 7.95  | 56   | 3872     | 1.42   | ug/l # | 11     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 12480    | 5.07   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 15858    | 6.66   | ug/l # | 20     |
| 49) 1,4-Dioxane                | 9.48  | 88   | 36       | 2.25   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 37965    | 53.77  | ug/l # | 1      |
| 77) Bromobenzene               | 12.96 | 156  | 10462    | 8.03   | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 37965    | 141.65 | ug/l # | 10     |
| 95) Naphthalene                | 15.38 | 128  | 3448     | 1.12   | ug/l # | 86     |

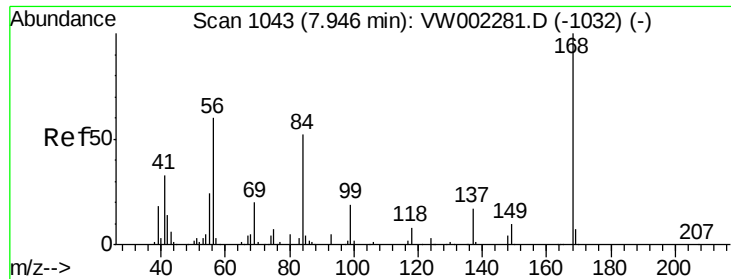
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW051018\  
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Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: May 11 04:53:22 2018  
Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W050818S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 08 03:57:58 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VW002387.D

Acq: 10 May 2018 18:06

Instrument :

MSVOA\_W

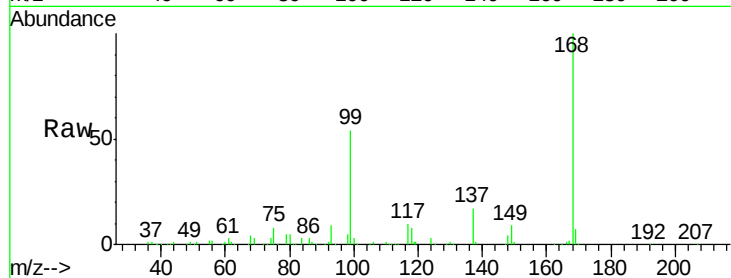
ClientSampled :

Tot Ion:168 Resp: 173133

Ion Ratio Lower Upper

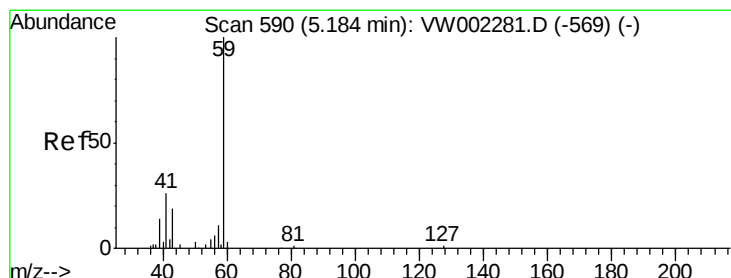
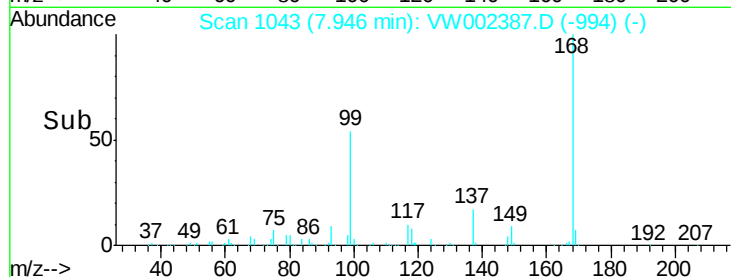
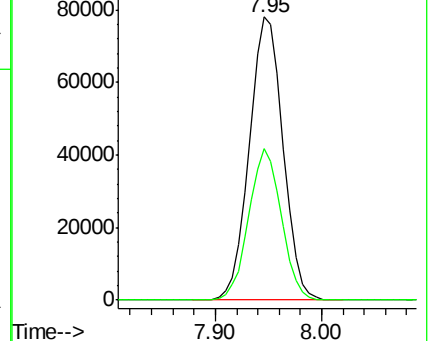
168 100

99 53.6 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.27 ug/l

RT: 5.19 min Scan# 591

Delta R.T. 0.01 min

Lab File: VW002387.D

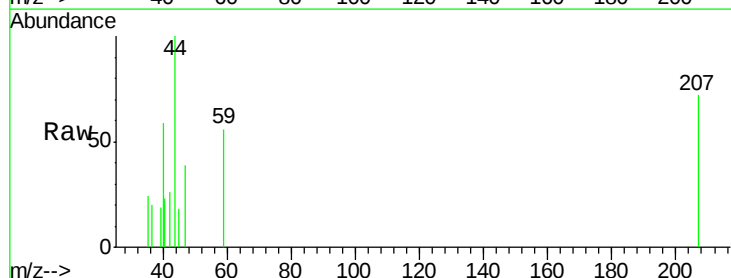
Acq: 10 May 2018 18:06

Tgt Ion: 59 Resp: 303

Ion Ratio Lower Upper

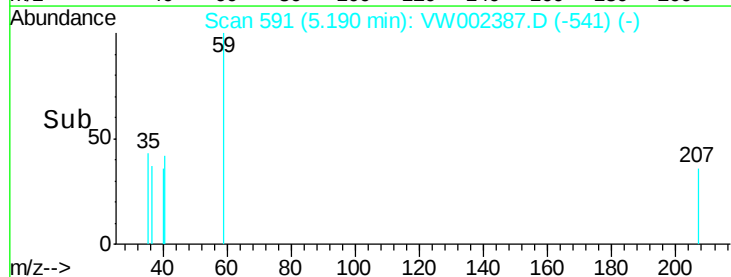
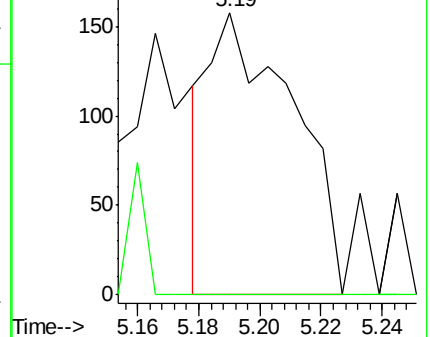
59 100

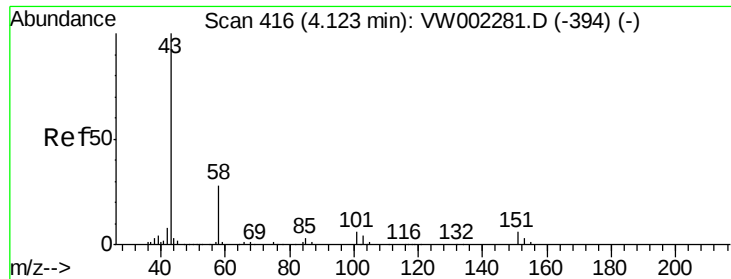
57 0.0 3.9 5.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

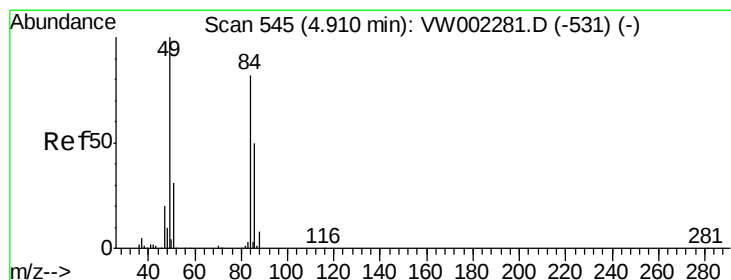
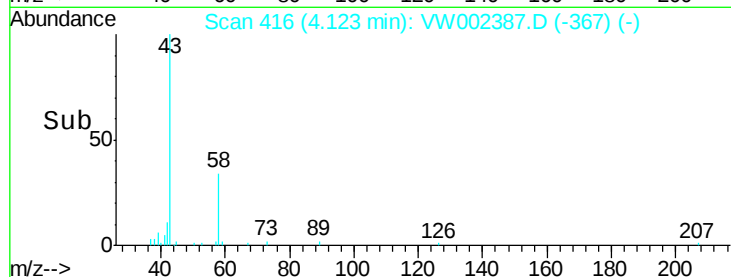
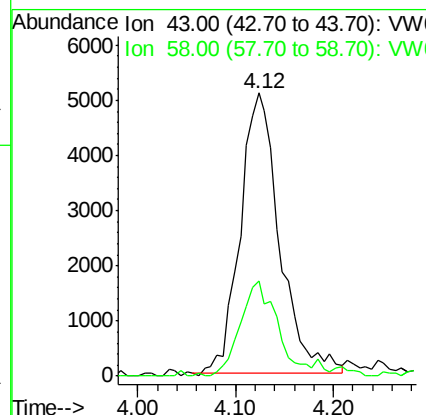
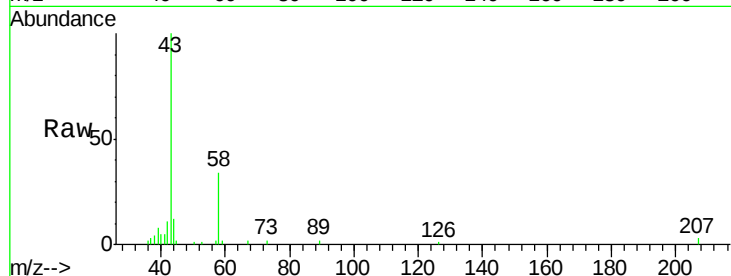




#16  
Acetone  
Concen: 39.47 ug/l  
RT: 4.12 min Scan# 416  
Delta R.T. -0.00 min  
Lab File: VW002387.D  
Acq: 10 May 2018 18:06

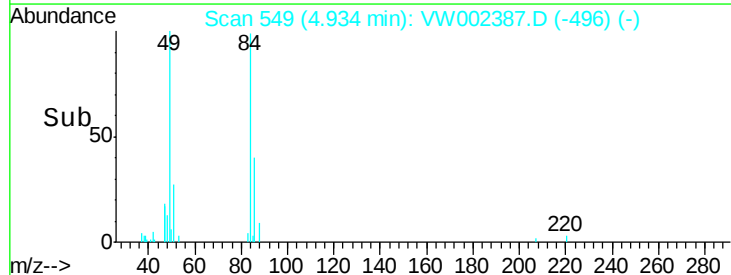
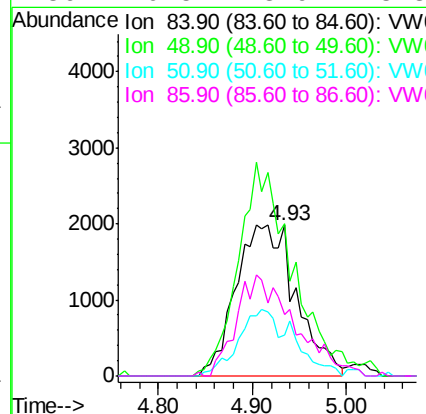
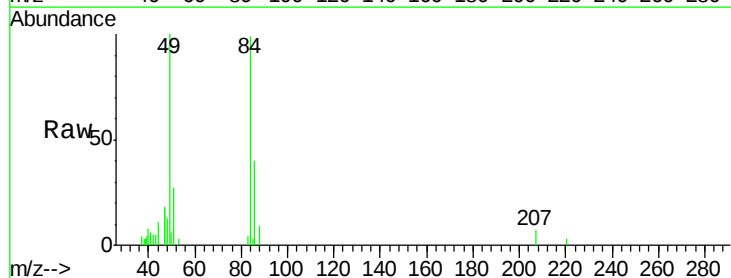
Instrument :  
MSVOA\_W  
ClientSampleId :

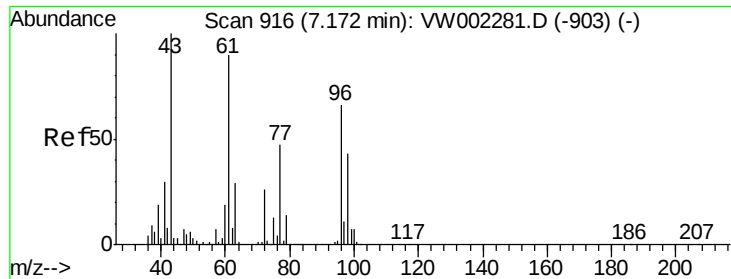
Tot Ion: 43 Resp: 14173  
Ion Ratio Lower Upper  
43 100  
58 34.1 22.2 33.4#



#20  
Methylene Chloride  
Concen: 5.12 ug/l  
RT: 4.93 min Scan# 549  
Delta R.T. 0.02 min  
Lab File: VW002387.D  
Acq: 10 May 2018 18:06

Tgt Ion: 84 Resp: 8858  
Ion Ratio Lower Upper  
84 100  
49 101.1 97.7 146.5  
51 27.6 30.2 45.4#  
86 40.5 48.9 73.3#





#25

2-Butanone

Concen: 2.75 ug/l

RT: 7.18 min Scan# 917

Delta R.T. 0.01 min

Lab File: VW002387.D

Acq: 10 May 2018 18:06

Instrument :

MSVOA\_W

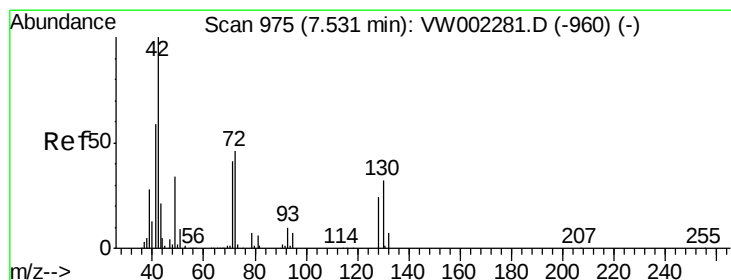
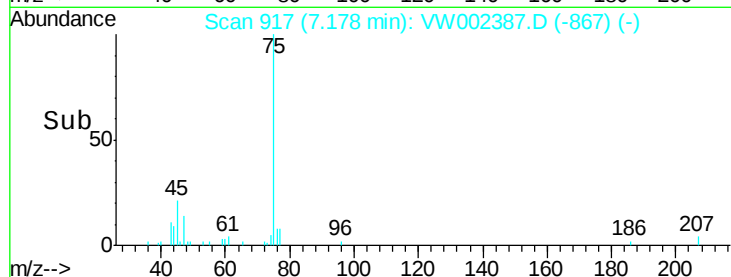
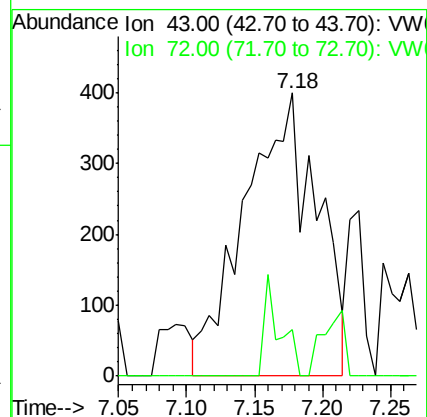
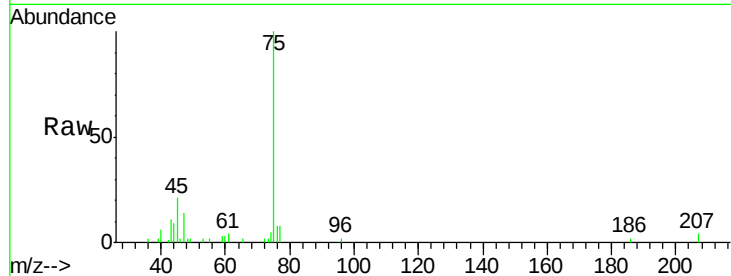
ClientSampled :

Tot Ion: 43 Resp: 1468

Ion Ratio Lower Upper

43 100

72 18.7 20.6 31.0#



#29

Tetrahydrofuran

Concen: 1.66 ug/l

RT: 7.54 min Scan# 976

Delta R.T. 0.01 min

Lab File: VW002387.D

Acq: 10 May 2018 18:06

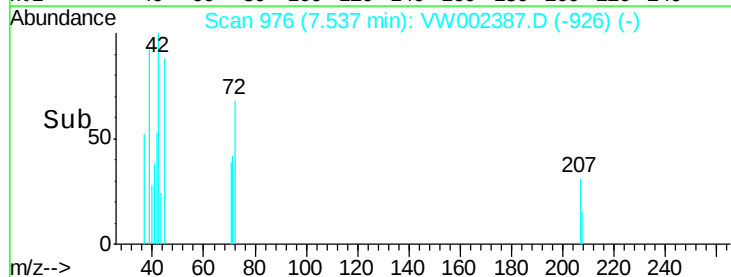
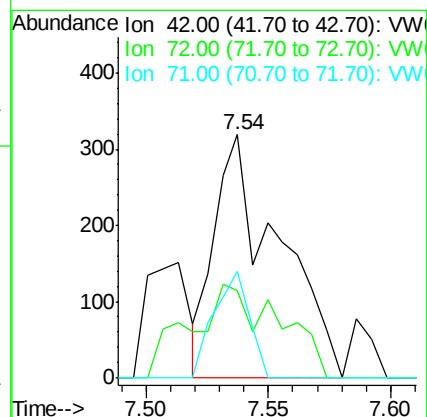
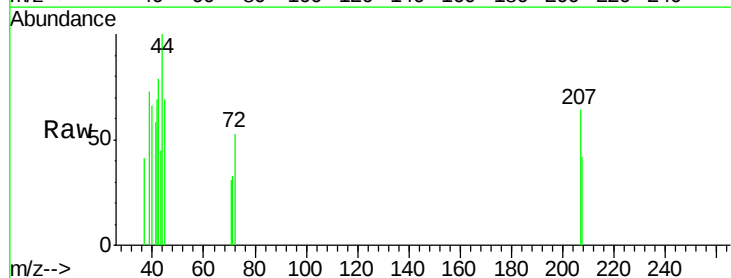
Tgt Ion: 42 Resp: 582

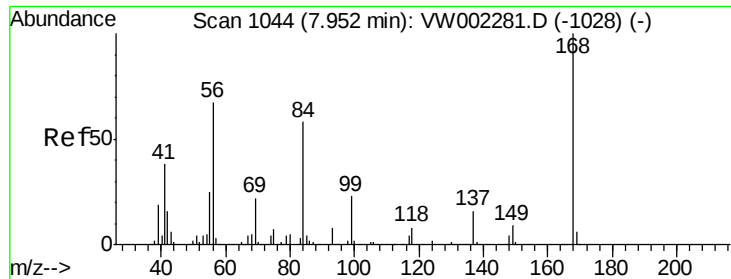
Ion Ratio Lower Upper

42 100

72 53.6 34.5 51.7#

71 24.1 33.0 49.6#

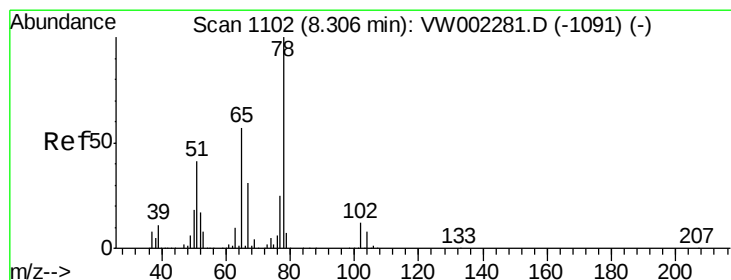
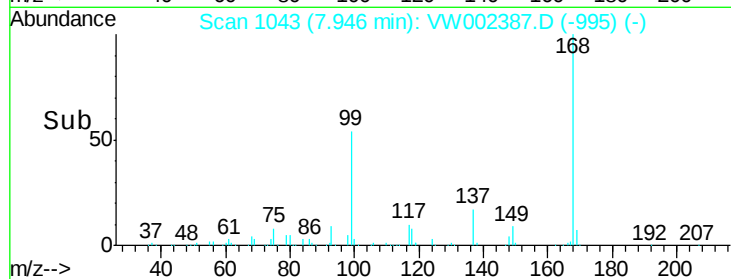
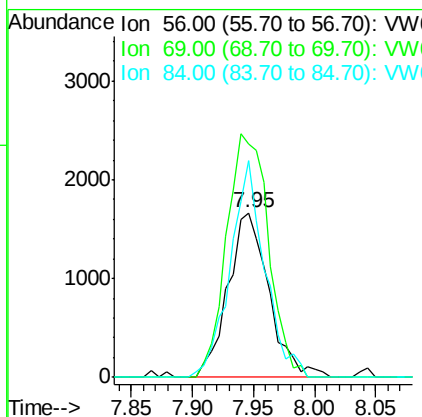
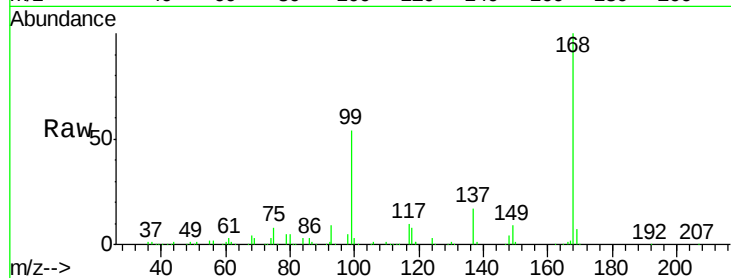




#31  
Cyclohexane  
Concen: 1.42 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW002387.D  
Acq: 10 May 2018 18:06

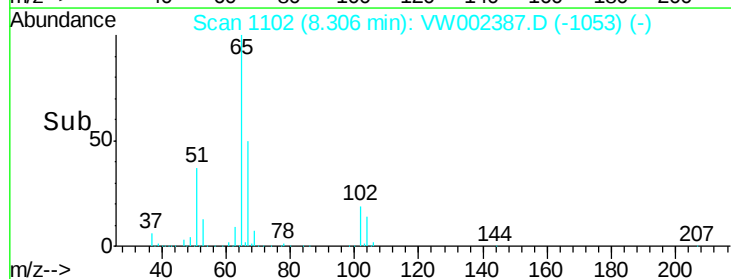
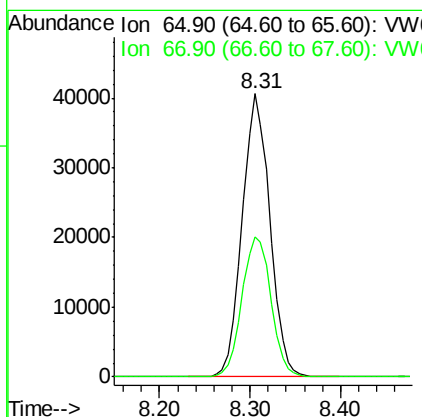
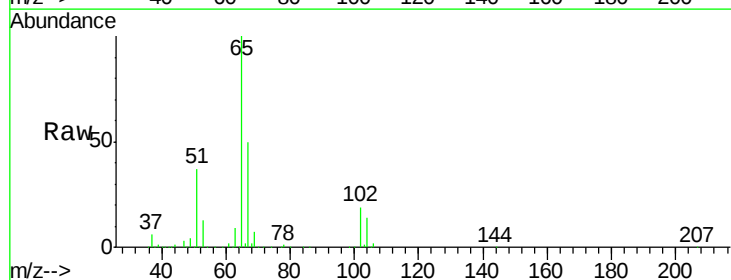
Instrument :  
MSVOA\_W  
ClientSampleId :

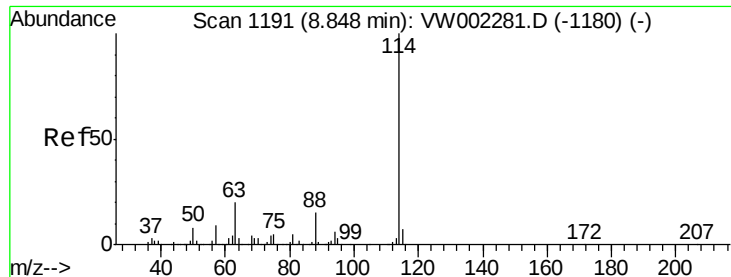
Tot Ion: 56 Resp: 3872  
Ion Ratio Lower Upper  
56 100  
69 141.9 26.2 39.4#  
84 131.7 69.2 103.8#



#33  
1,2-Dichloroethane-d4  
Concen: 46.85 ug/l  
RT: 8.31 min Scan# 1102  
Delta R.T. 0.00 min  
Lab File: VW002387.D  
Acq: 10 May 2018 18:06

Tgt Ion: 65 Resp: 86140  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 107.2

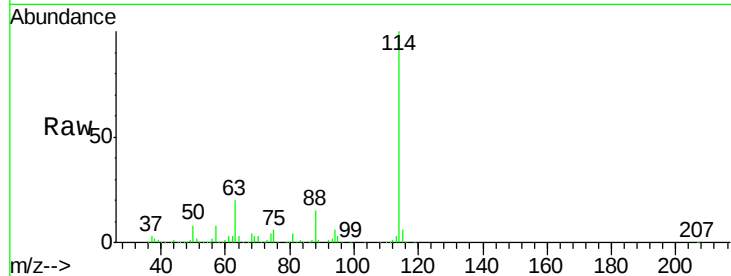




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW002387.D  
 Acq: 10 May 2018 18:06

Instrument :  
 MSVOA\_W  
 ClientSampleId :

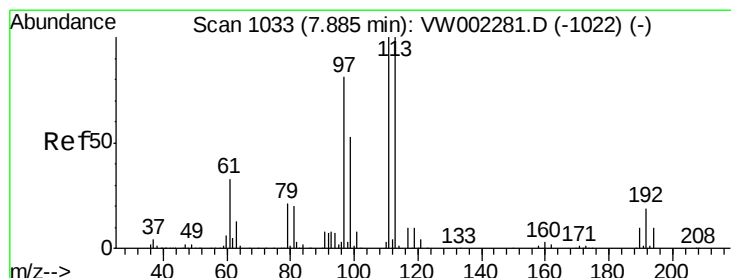
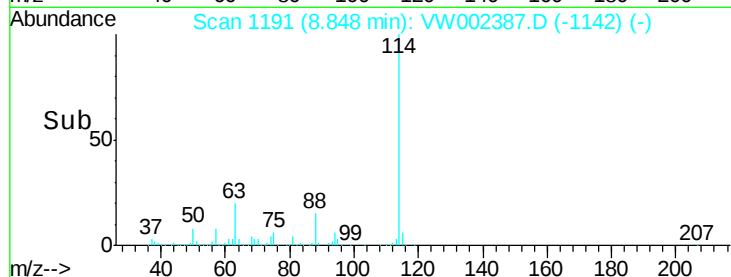
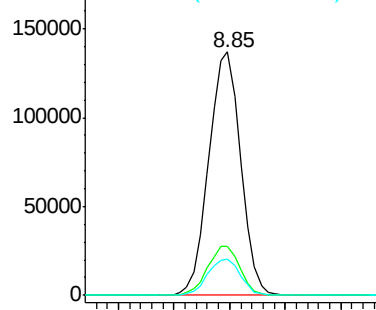
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.3  | 0.0   | 39.0  |
| 88      | 14.8  | 0.0   | 29.6  |



Abundance Ion 113.90 (113.60 to 114.60): V

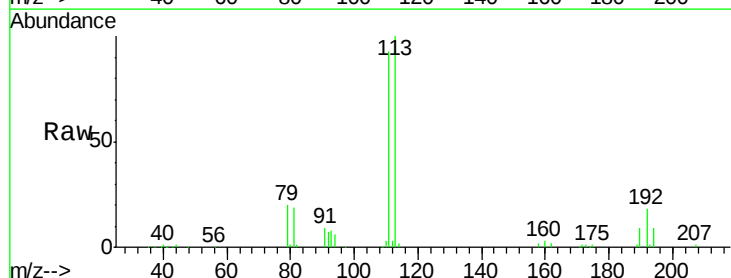
Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35  
 Dibromofluoromethane  
 Concen: 26.85 ug/l  
 RT: 7.88 min Scan# 1032  
 Delta R.T. -0.01 min  
 Lab File: VW002387.D  
 Acq: 10 May 2018 18:06

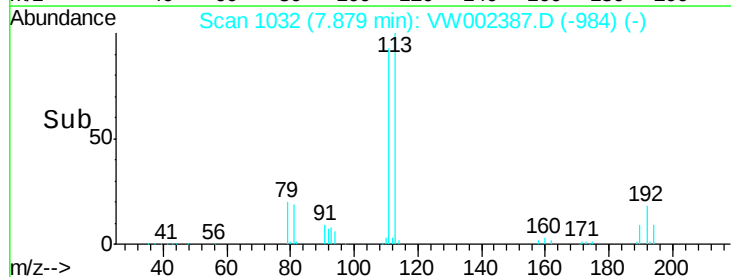
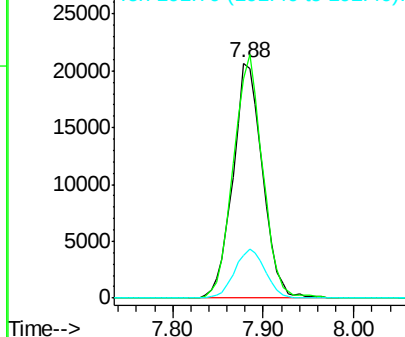
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.5 | 81.5  | 122.3 |
| 192     | 21.3  | 16.4  | 24.6  |

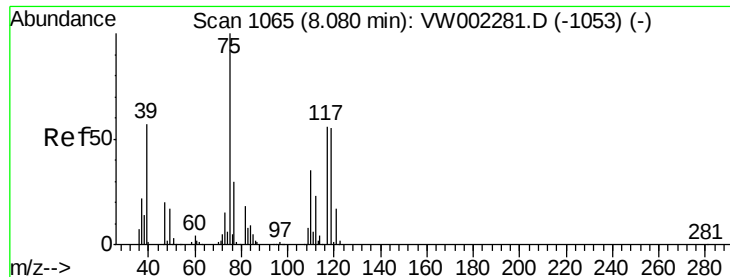


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.07 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.13 min

Lab File: VW002387.D

Acq: 10 May 2018 18:06

Instrument :

MSVOA\_W

ClientSampleId :

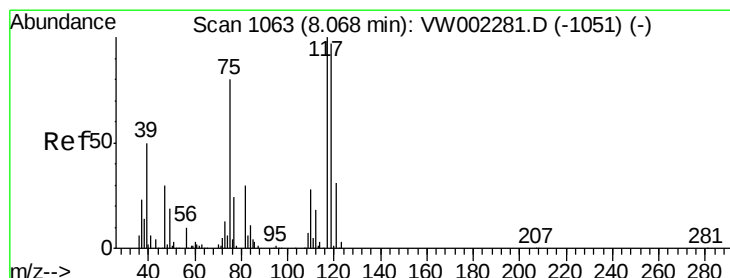
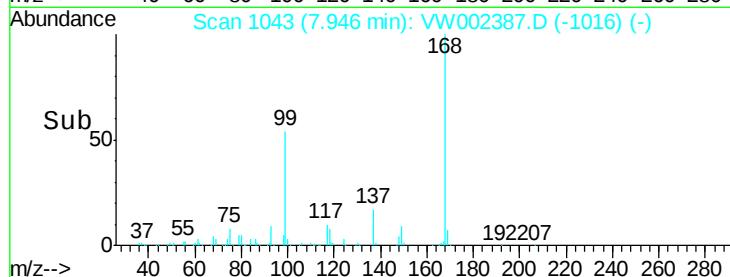
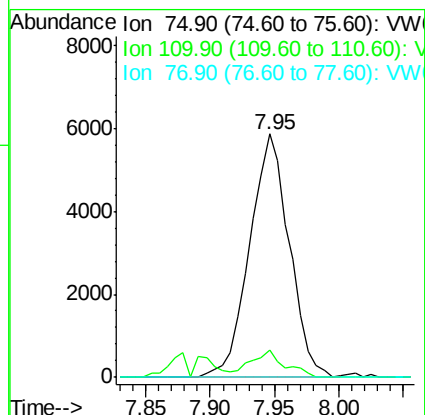
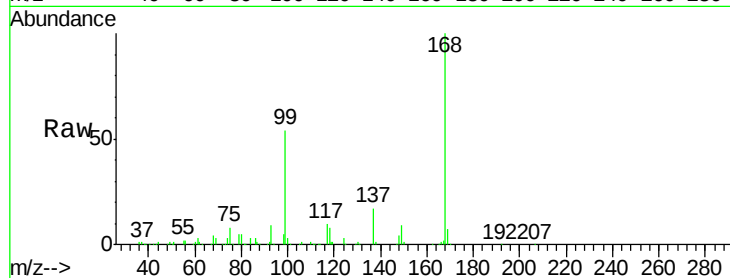
Tot Ion: 75 Resp: 12480

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.1#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.66 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW002387.D

Acq: 10 May 2018 18:06

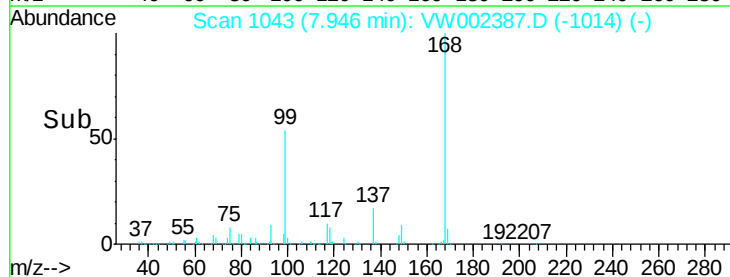
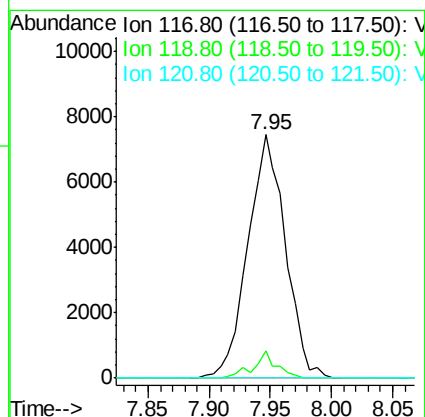
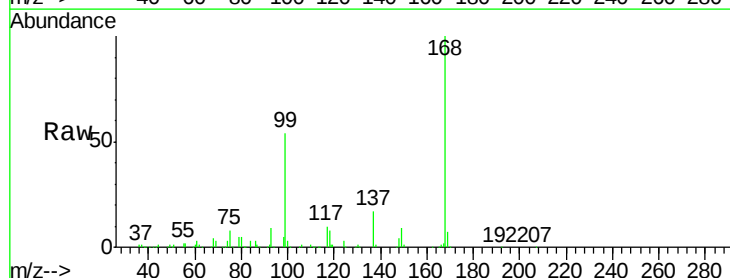
Tgt Ion: 117 Resp: 15858

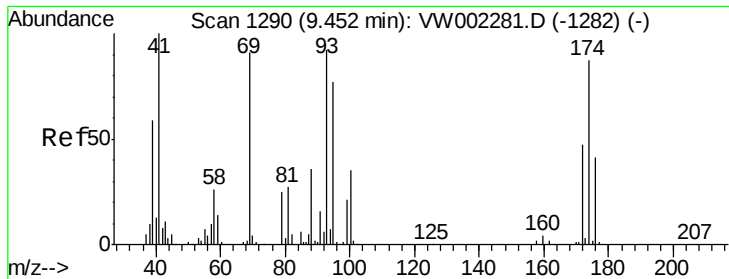
Ion Ratio Lower Upper

117 100

119 11.2 77.5 116.3#

121 0.0 24.4 36.6#

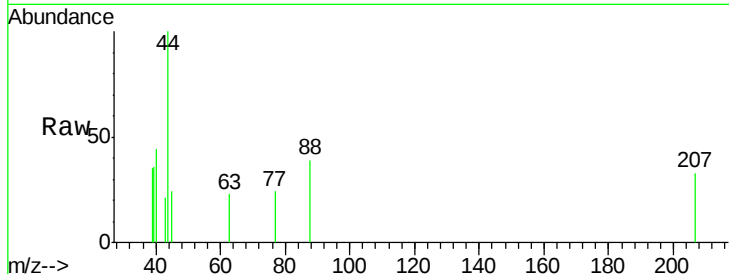




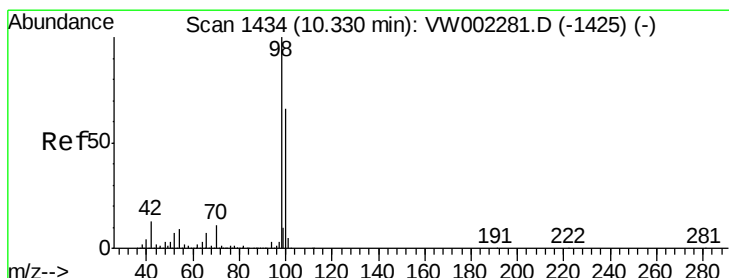
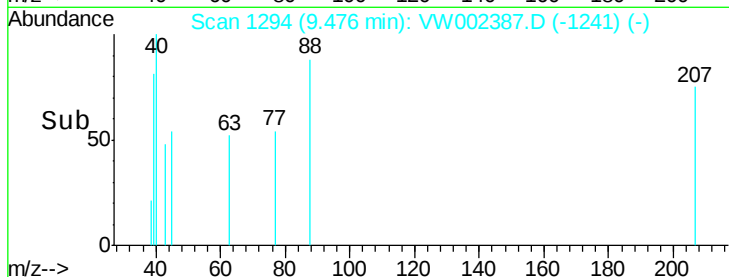
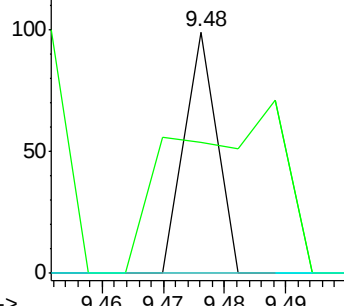
#49  
1,4-Dioxane  
Concen: 2.25 ug/l  
RT: 9.48 min Scan# 1294  
Delta R.T. 0.02 min  
Lab File: VW002387.D  
Acq: 10 May 2018 18:06

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 88 Resp: 36  
Ion Ratio Lower Upper  
88 100  
43 236.1 26.3 39.5#  
58 0.0 56.0 84.0#

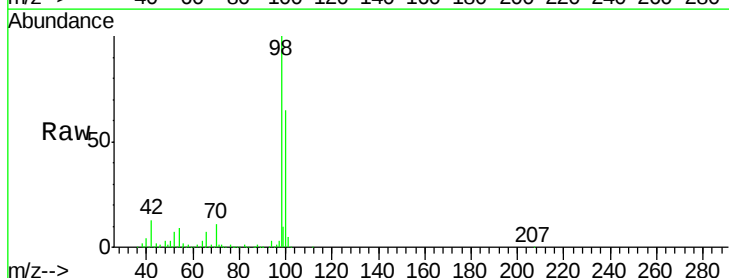


Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

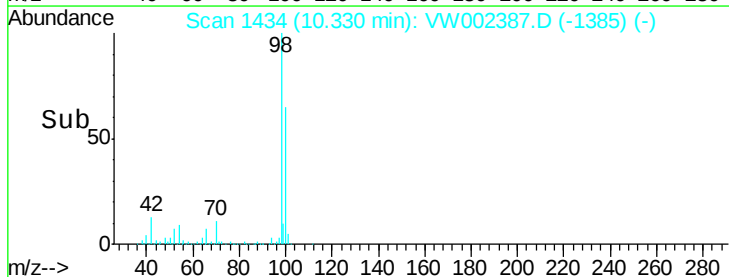
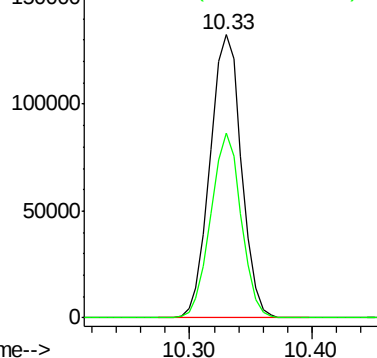


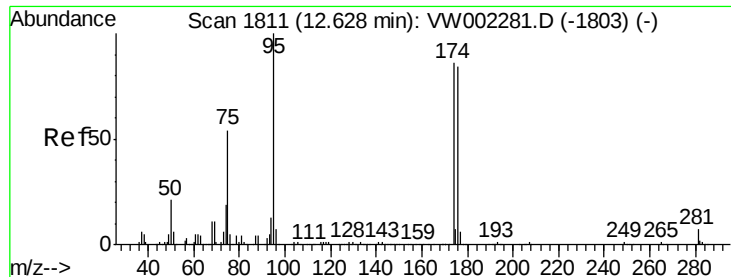
#50  
Toluene-d8  
Concen: 35.40 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. -0.00 min  
Lab File: VW002387.D  
Acq: 10 May 2018 18:06

Tgt Ion: 98 Resp: 235457  
Ion Ratio Lower Upper  
98 100  
100 63.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW

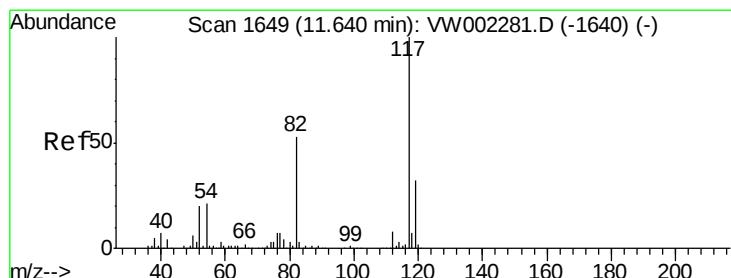
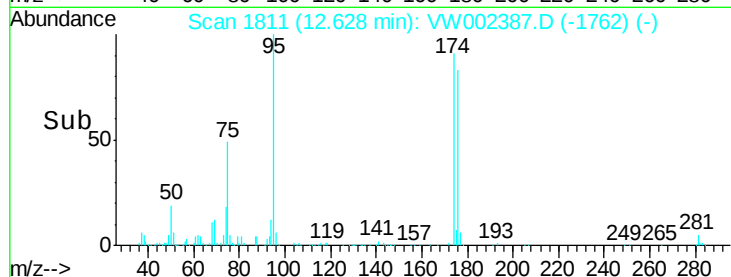
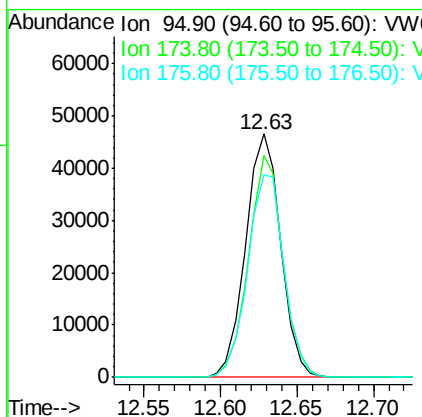
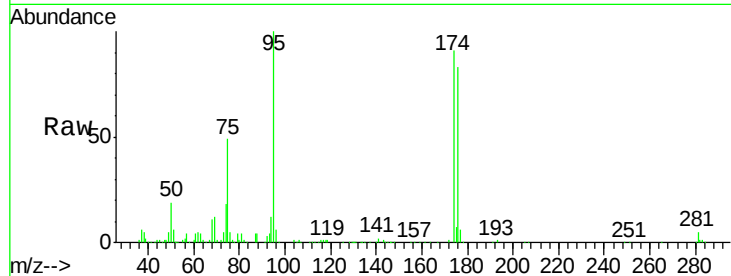




#62  
4-Bromofluorobenzene  
Concen: 30.83 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. -0.00 min  
Lab File: VW002387.D  
Acq: 10 May 2018 18:06

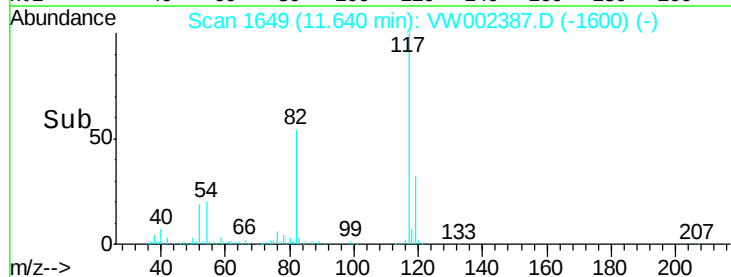
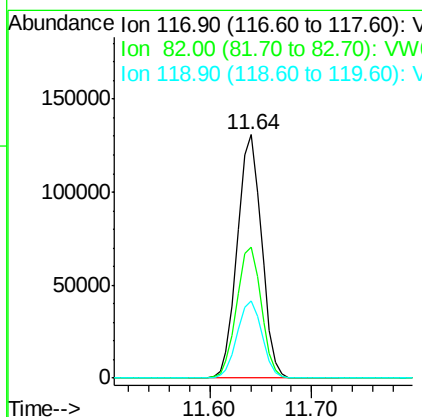
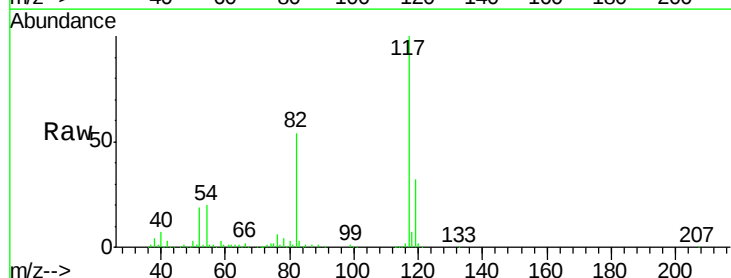
Instrument :  
MSVOA\_W  
ClientSampleId :

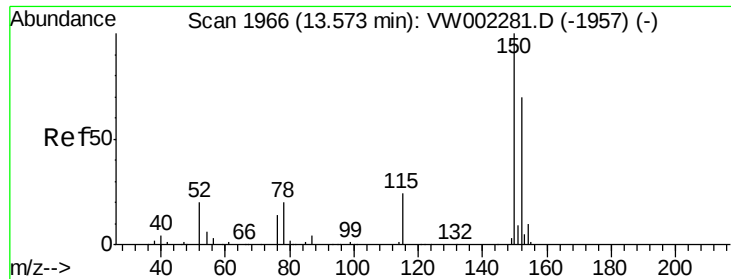
Tot Ion: 95 Resp: 74114  
Ion Ratio Lower Upper  
95 100  
174 89.6 0.0 176.8  
176 86.2 0.0 170.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. 0.00 min  
Lab File: VW002387.D  
Acq: 10 May 2018 18:06

Tgt Ion: 117 Resp: 214968  
Ion Ratio Lower Upper  
117 100  
82 53.9 42.6 63.8  
119 31.8 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.01 min

Lab File: VW002387.D

Acq: 10 May 2018 18:06

Instrument :

MSVOA\_W

ClientSampleId :

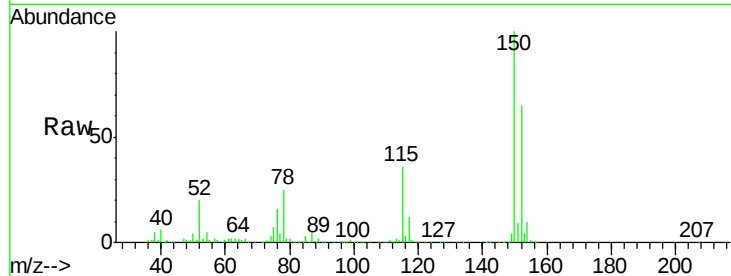
Tot Ion:152 Resp: 79615

Ion Ratio Lower Upper

152 100

115 55.5 28.5 85.5

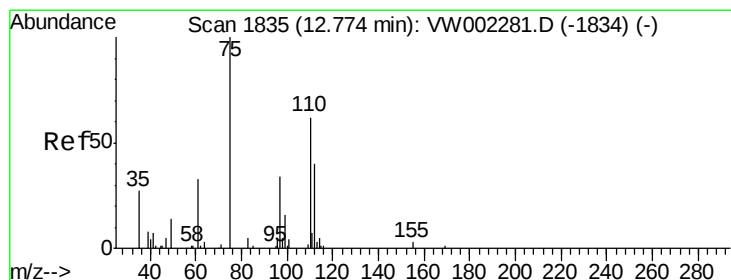
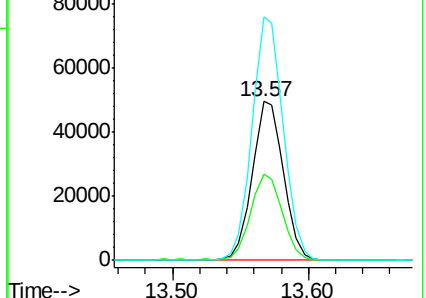
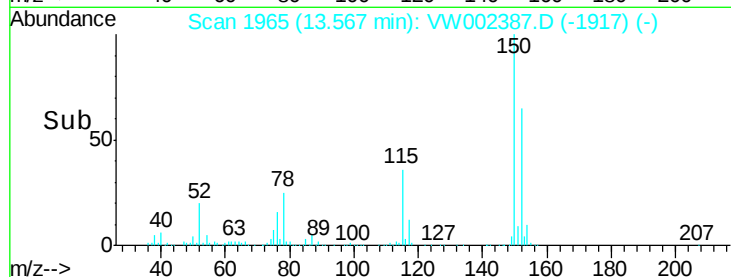
150 153.2 0.0 342.6



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: 53.77 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW002387.D

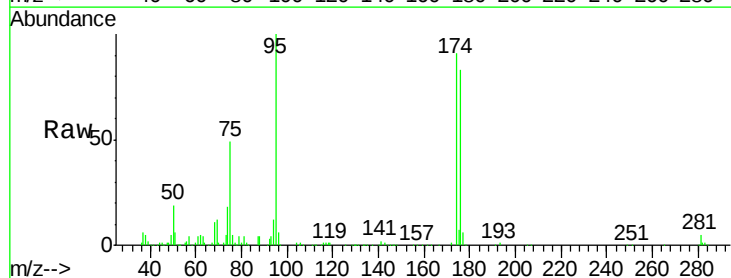
Acq: 10 May 2018 18:06

Tgt Ion: 75 Resp: 37965

Ion Ratio Lower Upper

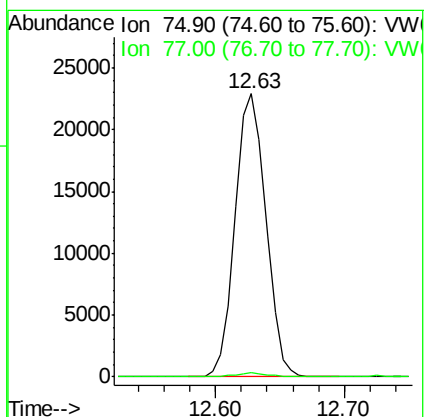
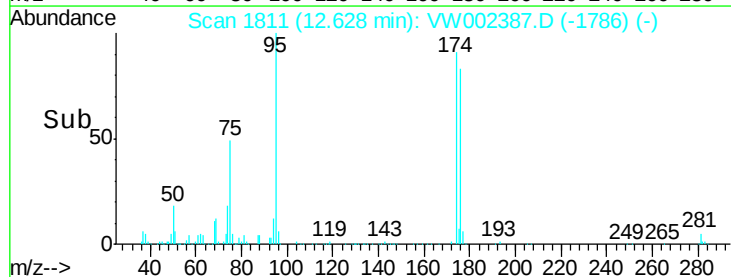
75 100

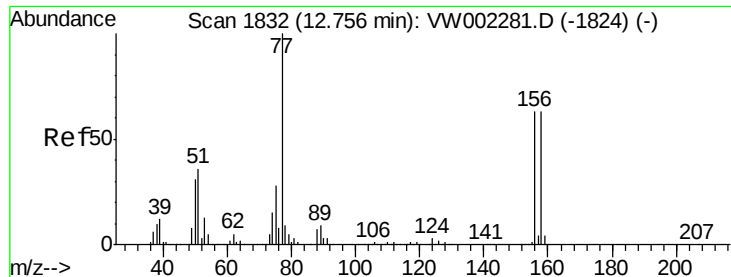
77 1.5 187.5 562.6#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 8.03 ug/l

RT: 12.96 min Scan# 1865

Delta R.T. 0.20 min

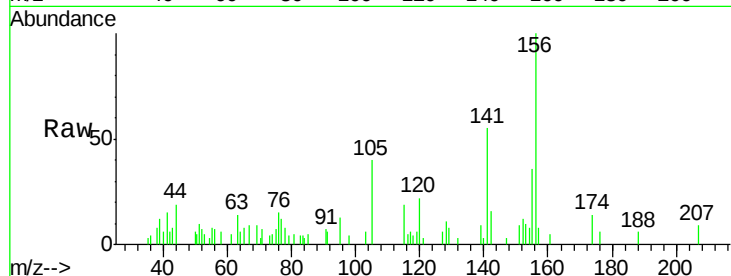
Lab File: VW002387.D

Acq: 10 May 2018 18:06

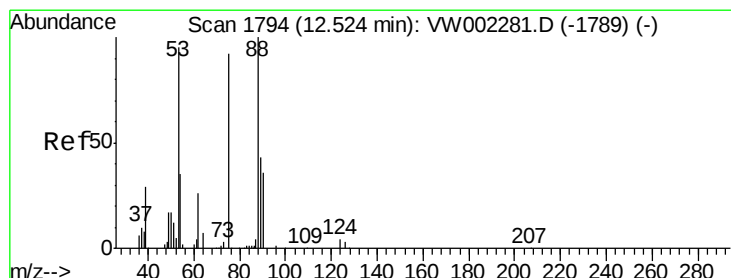
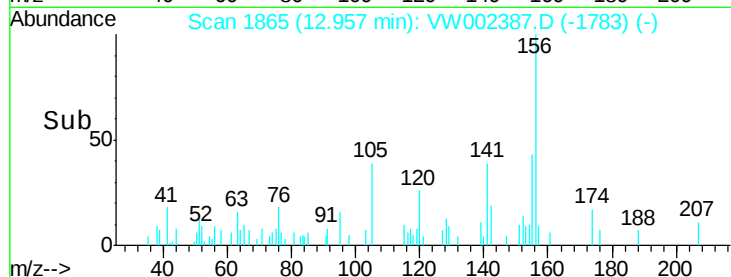
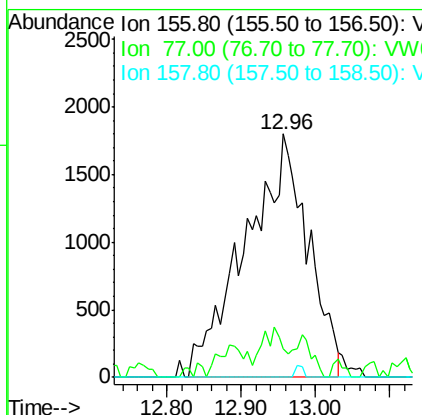
Instrument :

MSVOA\_W

ClientSampled :



|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 156   | Resp: | 10462  |
| Ion      | Ratio | Lower | Upper  |
| 156      | 100   |       |        |
| 77       | 0.0   | 87.7  | 263.1# |
| 158      | 0.0   | 48.6  | 145.8# |



#81

trans-1,4-Dichloro-2-butene

Concen: 141.65 ug/l

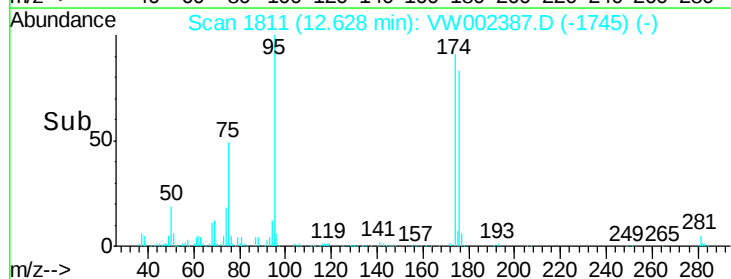
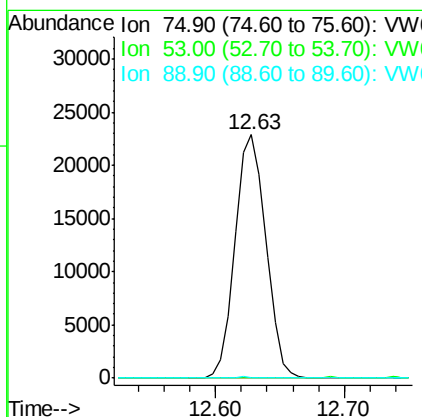
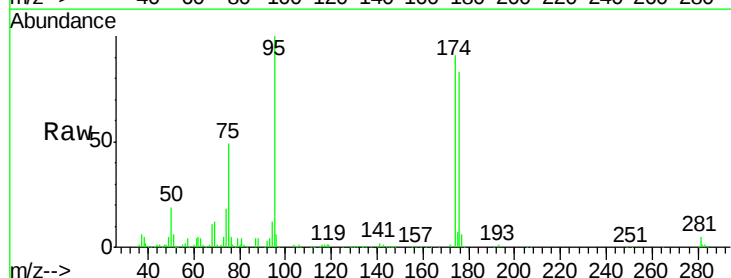
RT: 12.63 min Scan# 1811

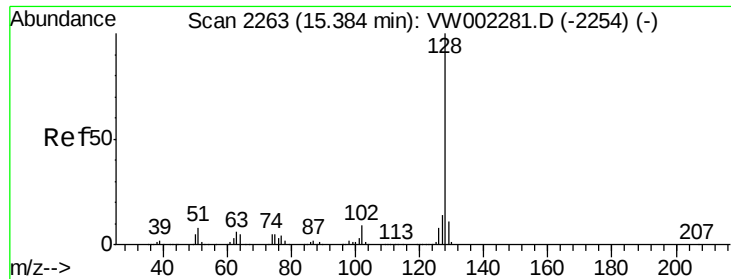
Delta R.T. 0.10 min

Lab File: VW002387.D

Acq: 10 May 2018 18:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 37965  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.2   | 79.9  | 119.9# |
| 89       | 0.1   | 37.6  | 56.4#  |

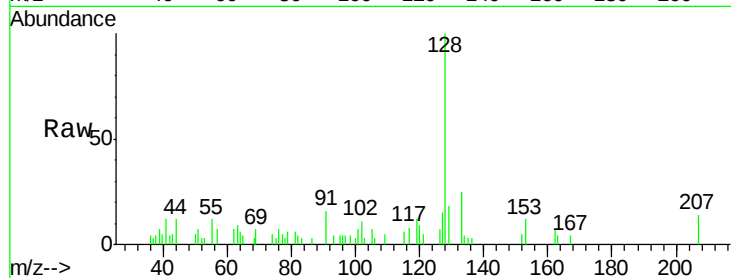




#95  
Naphthalene  
Concen: 1.12 ug/l  
RT: 15.38 min Scan# 2263  
Delta R.T. 0.00 min  
Lab File: VW002387.D  
Acq: 10 May 2018 18:06

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:128 Resp: 3448  
Ion Ratio Lower Upper  
128 100  
127 20.4 11.0 16.4#  
129 15.0 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

