

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071718\  
 Data File : VW004024.D  
 Acq On : 18 Jul 2018 10:21  
 Operator : VA/AP  
 Sample : J4012-01  
 Misc : 6.08G/5ML/MSVOA W/SOIL  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FS-RT-4917

Quant Time: Jul 18 11:00:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 16 15:06:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 80134    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 128116   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 100180   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 33691    | 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   | 54307    | 60.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 121.26% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 47561    | 57.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 115.72% |          |
| 50) Toluene-d8              | 10.33 | 98   | 102857   | 32.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 64.50%  |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 35167    | 30.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 61.14%  |          |

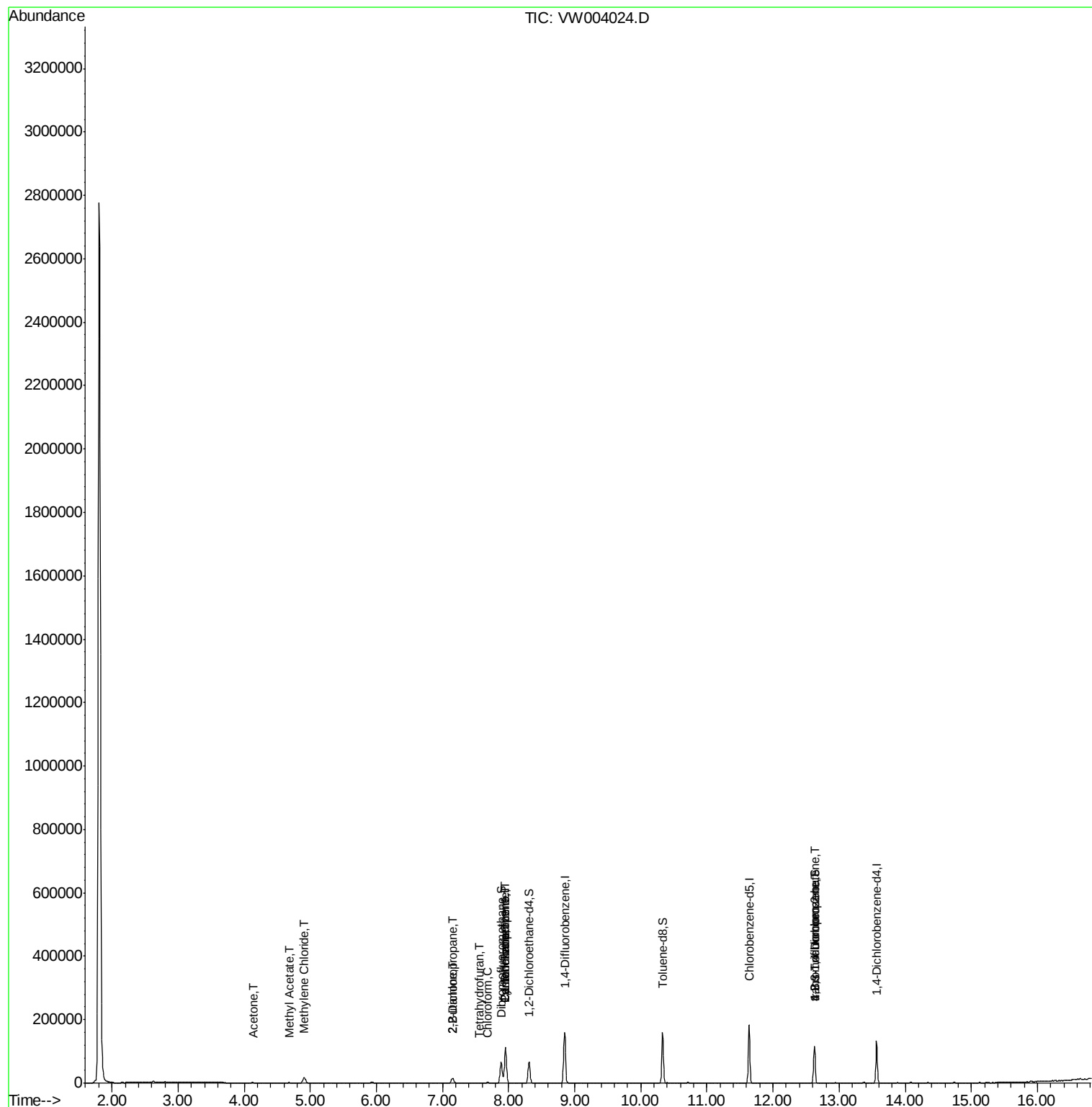
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 4.13  | 43   | 2024     | 9.40   | ug/l # | 86     |
| 18) Methyl Acetate             | 4.68  | 43   | 2688     | 5.20   | ug/l   | 99     |
| 20) Methylene Chloride         | 4.91  | 84   | 11285    | 4.76   | ug/l   | 98     |
| 25) 2-Butanone                 | 7.15  | 43   | 646      | 2.23   | ug/l # | 51     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 1093     | 1.20   | ug/l # | 52     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 263      | 1.46   | ug/l # | 42     |
| 30) Chloroform                 | 7.68  | 83   | 1702     | 1.08   | ug/l # | 73     |
| 31) Cyclohexane                | 7.95  | 56   | 2122     | 1.43   | ug/l # | 26     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 6658     | 5.05   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 8175     | 6.64   | ug/l # | 19     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 19505    | 58.32  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 19505    | 128.99 | ug/l # | 11     |

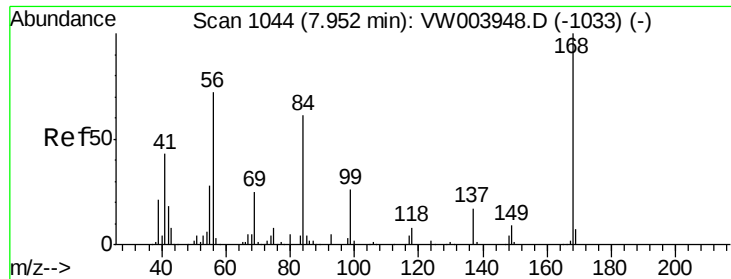
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071718\  
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Sample : J4012-01  
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ALS Vial : 55 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FS-RT-4917

Quant Time: Jul 18 11:00:38 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 16 15:06:12 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW004024.D

Acq: 18 Jul 2018 10:21

Instrument :

MSVOA\_W

ClientSampleId :

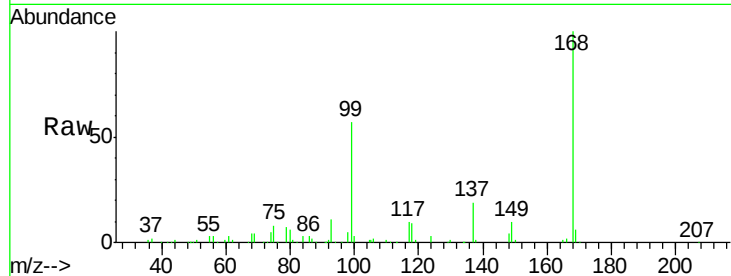
FS-RT-4917

Tot Ion:168 Resp: 80134

Ion Ratio Lower Upper

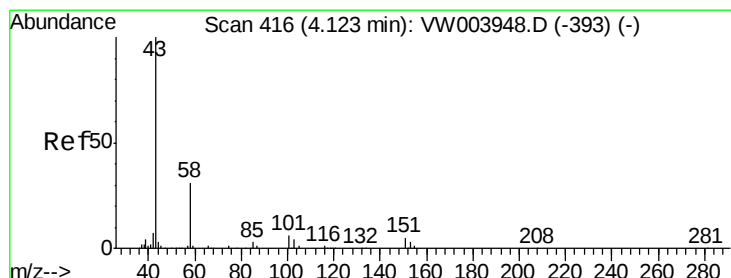
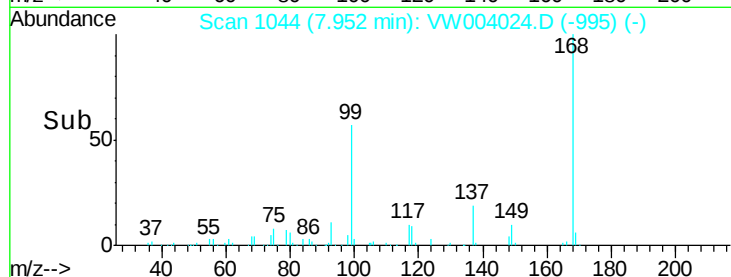
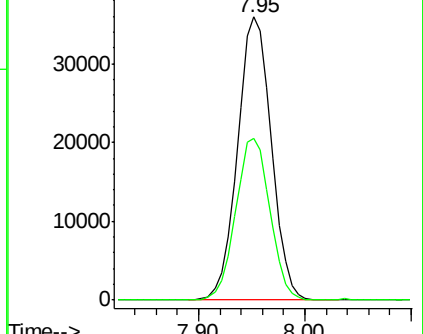
168 100

99 57.4 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 9.40 ug/l

RT: 4.13 min Scan# 417

Delta R.T. 0.01 min

Lab File: VW004024.D

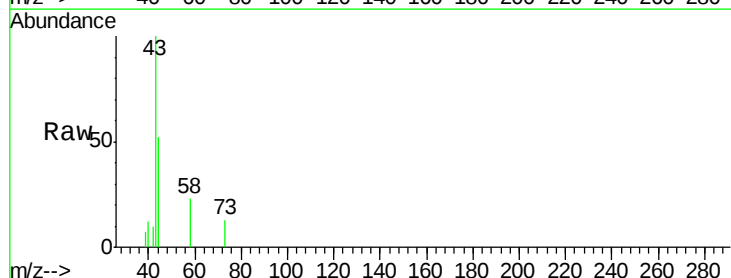
Acq: 18 Jul 2018 10:21

Tgt Ion: 43 Resp: 2024

Ion Ratio Lower Upper

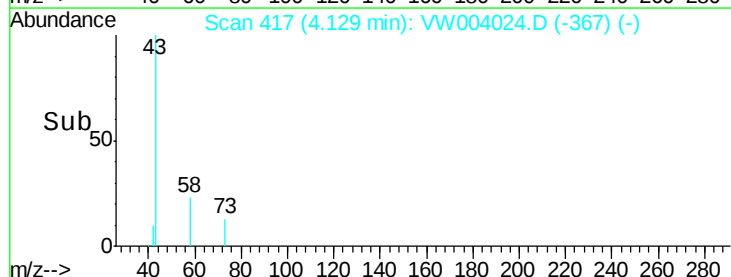
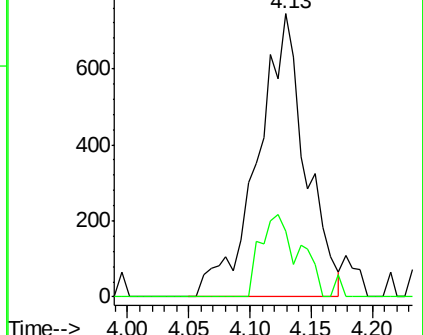
43 100

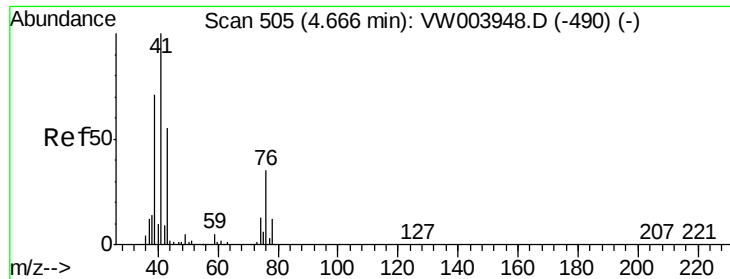
58 23.1 24.5 36.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

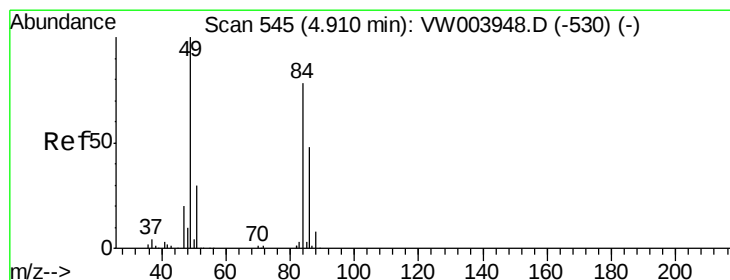
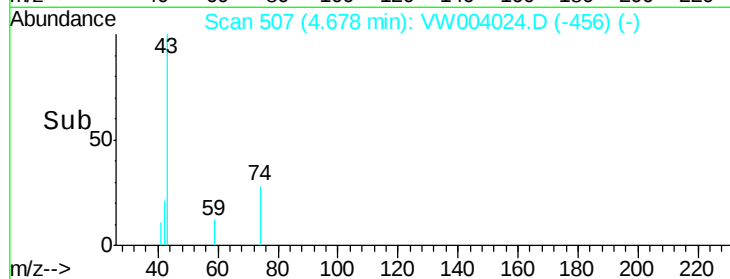
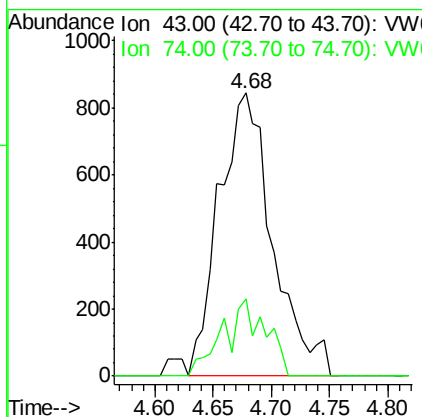
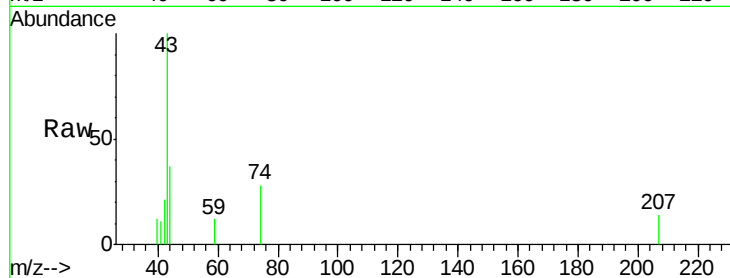




#18  
Methyl Acetate  
Concen: 5.20 ug/l  
RT: 4.68 min Scan# 507  
Delta R.T. 0.01 min  
Lab File: VW004024.D  
Acq: 18 Jul 2018 10:21

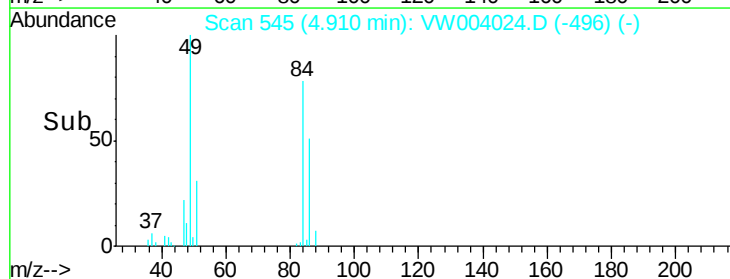
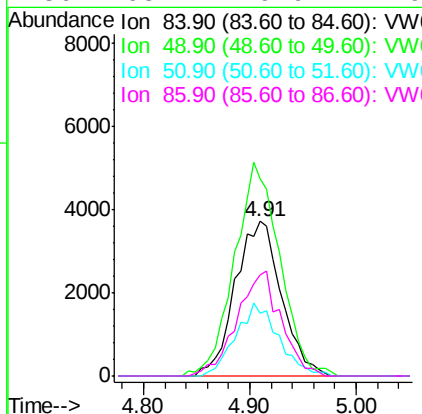
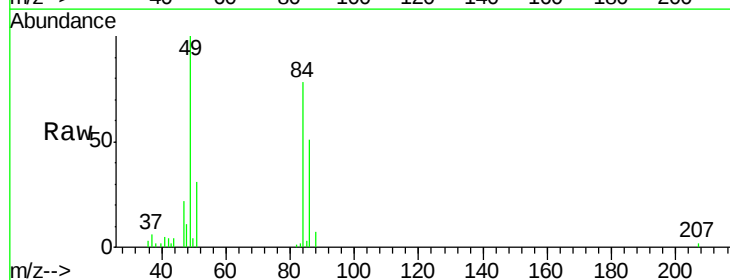
Instrument :  
MSVOA\_W  
ClientSampleId :  
FS-RT-4917

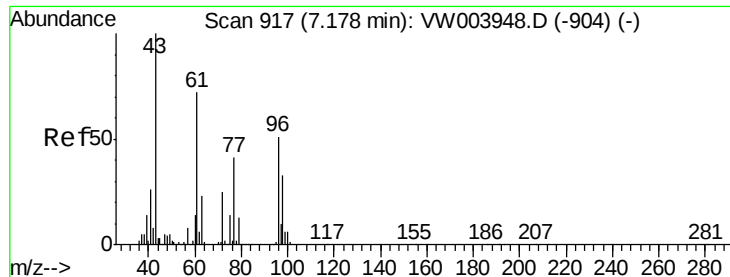
Tot Ion: 43 Resp: 2688  
Ion Ratio Lower Upper  
43 100  
74 21.8 17.7 26.5



#20  
Methylene Chloride  
Concen: 4.76 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: VW004024.D  
Acq: 18 Jul 2018 10:21

Tgt Ion: 84 Resp: 11285  
Ion Ratio Lower Upper  
84 100  
49 127.8 102.9 154.3  
51 40.2 30.9 46.3  
86 65.7 49.9 74.9





#25

2-Butanone

Concen: 2.23 ug/l

RT: 7.15 min Scan# 912

Delta R.T. -0.03 min

Lab File: VW004024.D

Acq: 18 Jul 2018 10:21

Instrument :

MSVOA\_W

ClientSampleId :

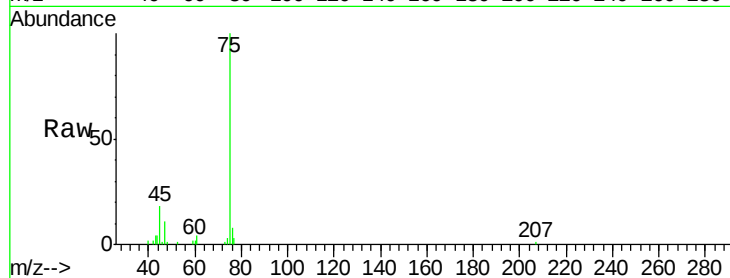
FS-RT-4917

Tot Ion: 43 Resp: 646

Ion Ratio Lower Upper

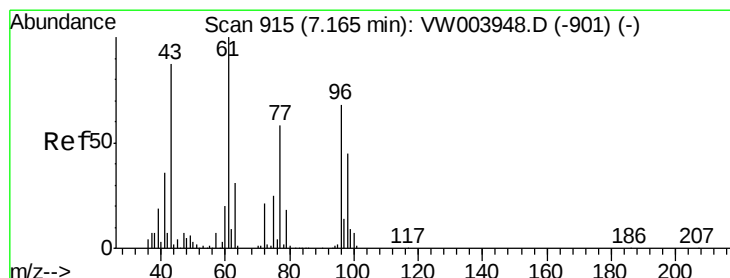
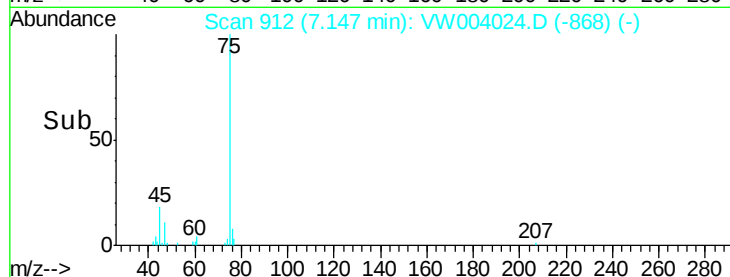
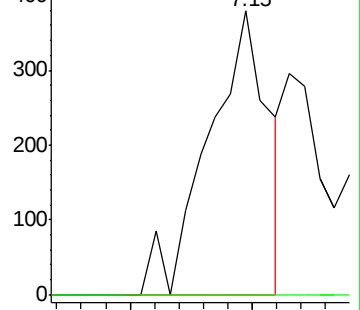
43 100

72 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.20 ug/l

RT: 7.15 min Scan# 913

Delta R.T. -0.01 min

Lab File: VW004024.D

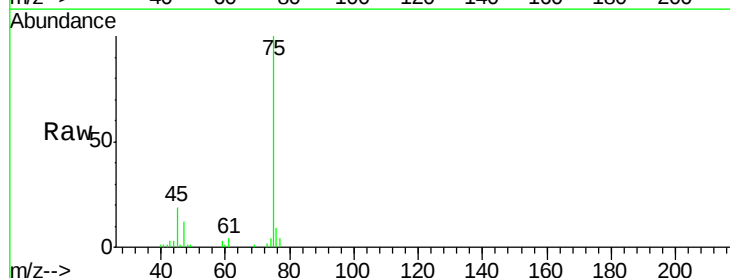
Acq: 18 Jul 2018 10:21

Tgt Ion: 77 Resp: 1093

Ion Ratio Lower Upper

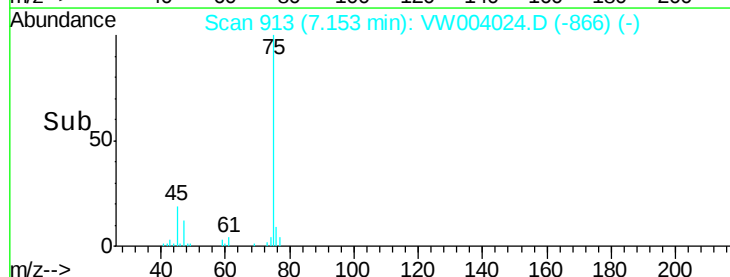
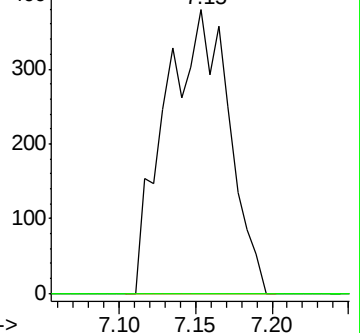
77 100

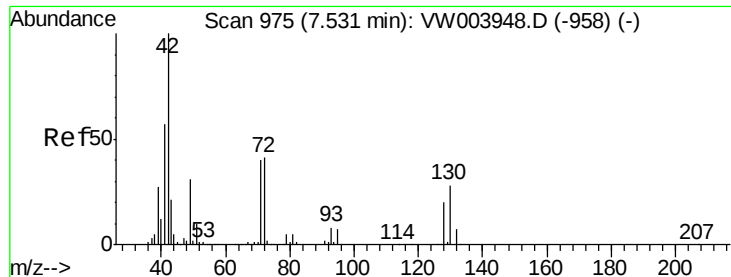
97 0.0 11.8 35.3#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

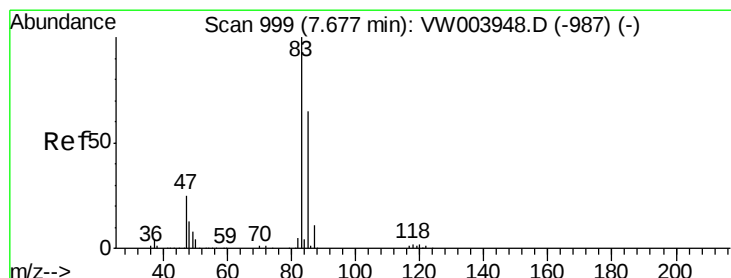
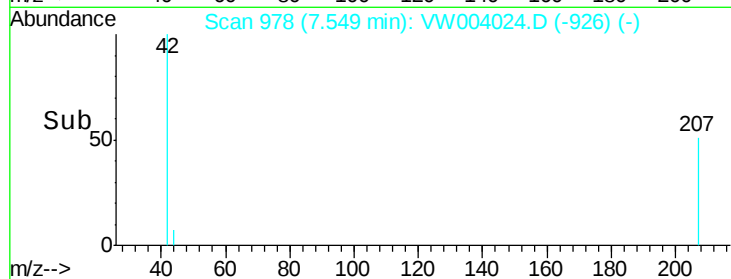
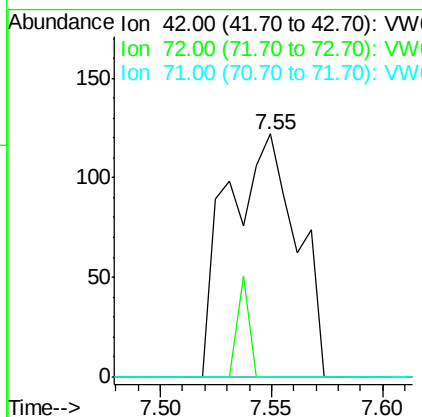
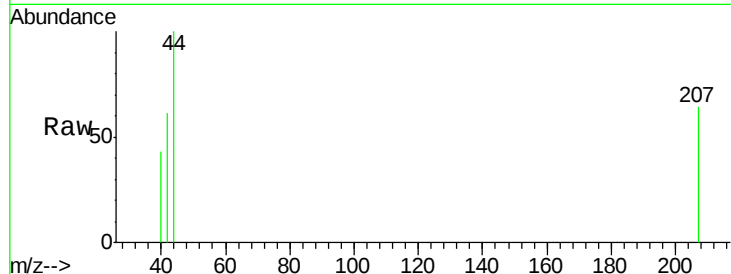




#29  
Tetrahydrofuran  
Concen: 1.46 ug/l  
RT: 7.55 min Scan# 978  
Delta R.T. 0.02 min  
Lab File: VW004024.D  
Acq: 18 Jul 2018 10:21

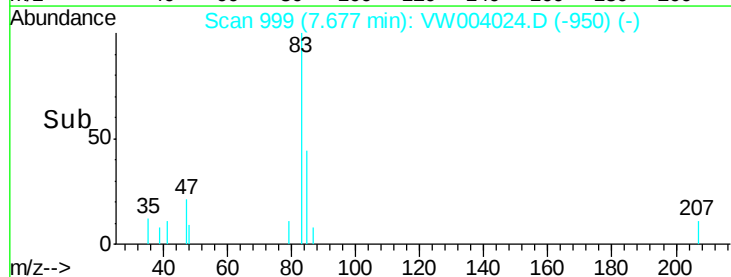
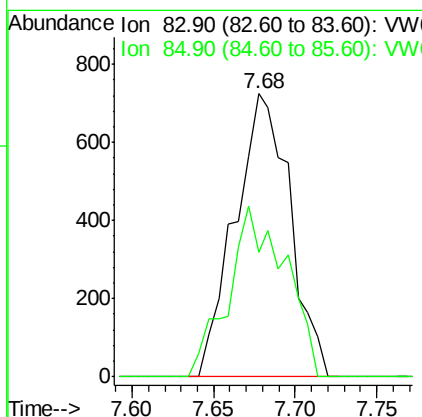
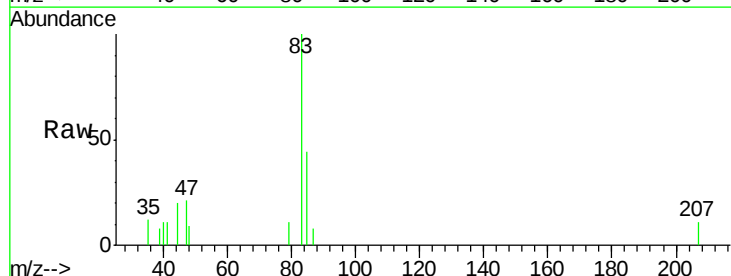
Instrument :  
MSVOA\_W  
ClientSampled :  
FS-RT-4917

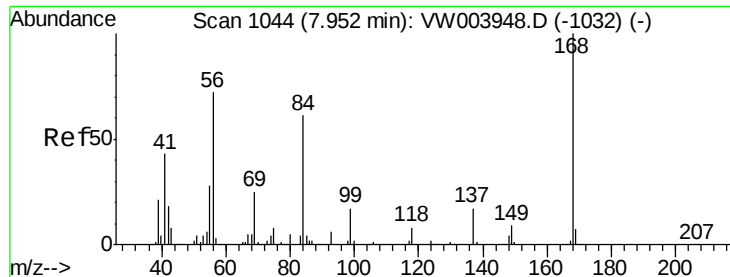
Tot Ion: 42 Resp: 263  
Ion Ratio Lower Upper  
42 100  
72 7.2 32.6 48.8#  
71 0.0 30.5 45.7#



#30  
Chloroform  
Concen: 1.08 ug/l  
RT: 7.68 min Scan# 999  
Delta R.T. -0.00 min  
Lab File: VW004024.D  
Acq: 18 Jul 2018 10:21

Tgt Ion: 83 Resp: 1702  
Ion Ratio Lower Upper  
83 100  
85 44.2 52.2 78.4#





#31

Cyclohexane

Concen: 1.43 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW004024.D

Acq: 18 Jul 2018 10:21

Instrument :

MSVOA\_W

ClientSampleId :

FS-RT-4917

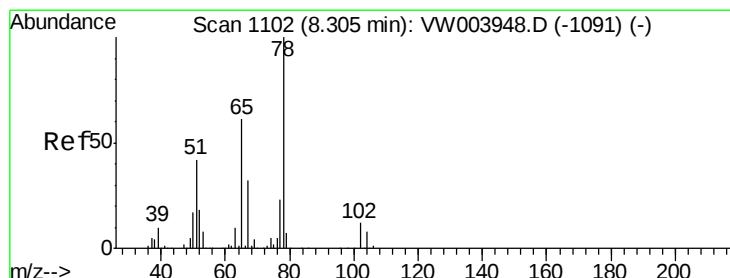
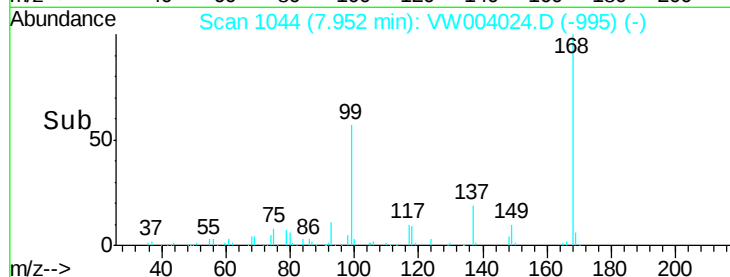
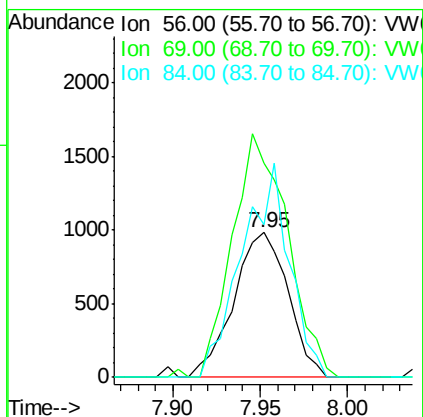
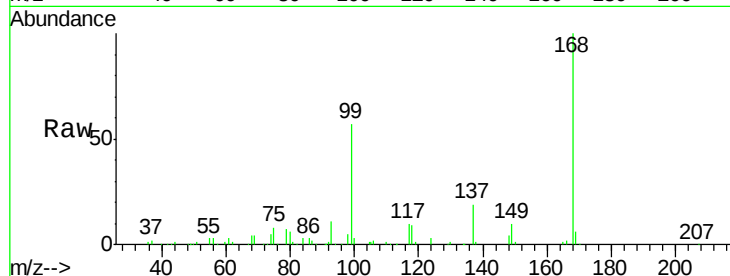
Tot Ion: 56 Resp: 2122

Ion Ratio Lower Upper

56 100

69 148.1 27.8 41.8#

84 105.3 67.2 100.8#



#33

1,2-Dichloroethane-d4

Concen: 60.63 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VW004024.D

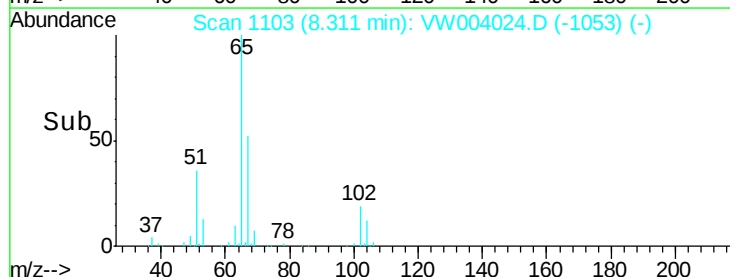
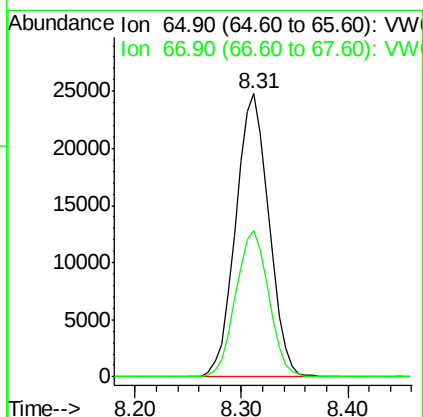
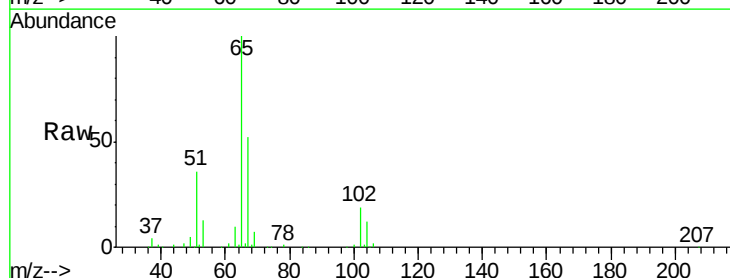
Acq: 18 Jul 2018 10:21

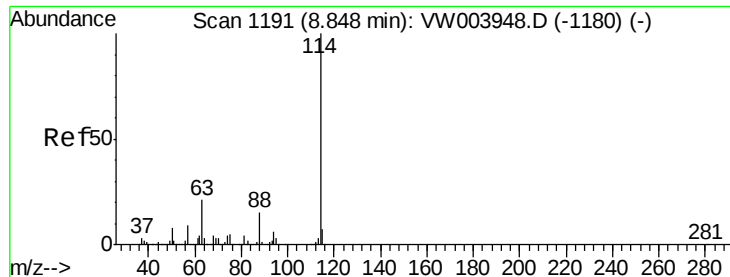
Tgt Ion: 65 Resp: 54307

Ion Ratio Lower Upper

65 100

67 51.4 0.0 105.0

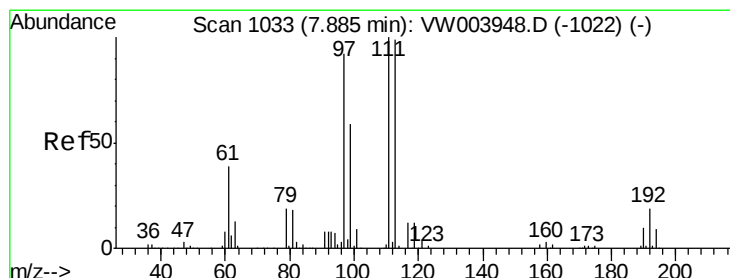
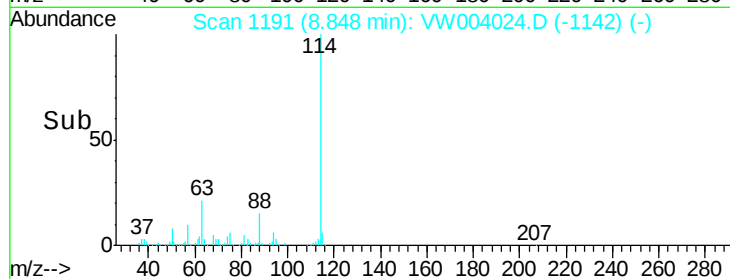
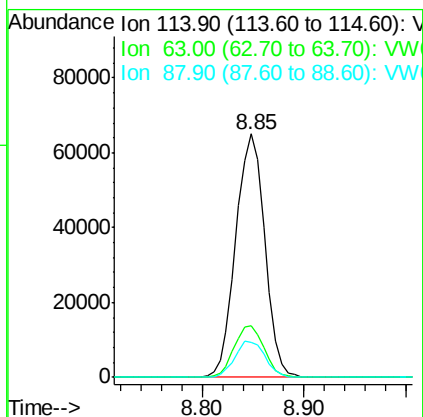
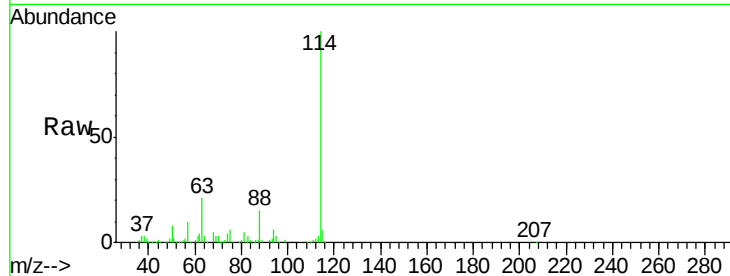




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW004024.D  
 Acq: 18 Jul 2018 10:21

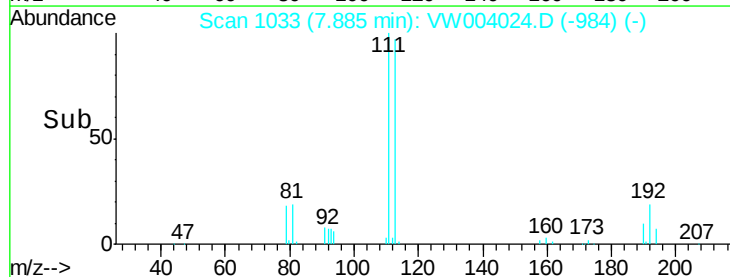
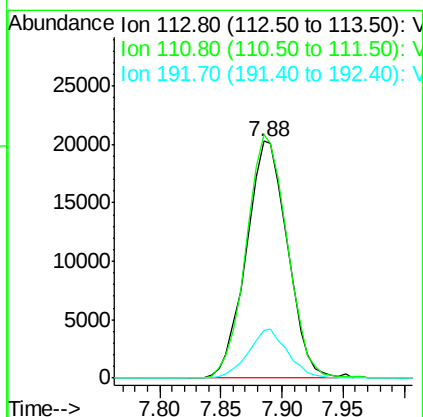
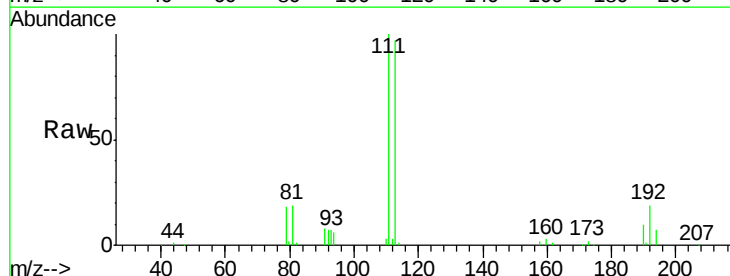
Instrument :  
 MSVOA\_W  
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 FS-RT-4917

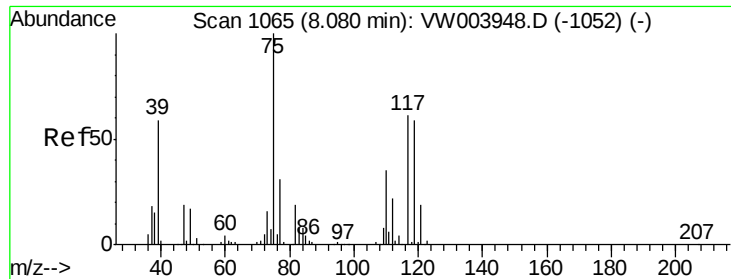
Tot Ion:114 Resp: 128116  
 Ion Ratio Lower Upper  
 114 100  
 63 21.0 0.0 42.8  
 88 14.5 0.0 30.4



#35  
 Dibromofluoromethane  
 Concen: 57.86 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW004024.D  
 Acq: 18 Jul 2018 10:21

Tgt Ion:113 Resp: 47561  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 81.3 121.9  
 192 19.5 15.8 23.6

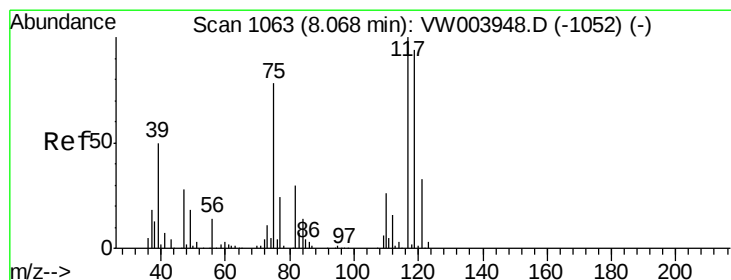
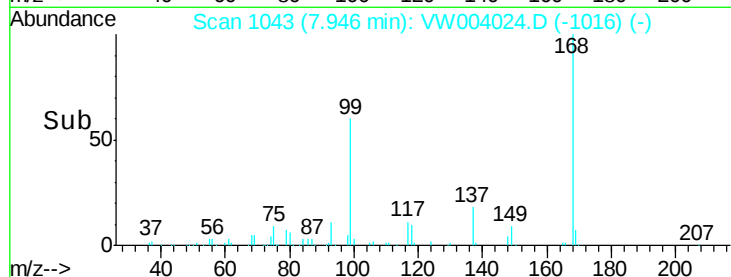
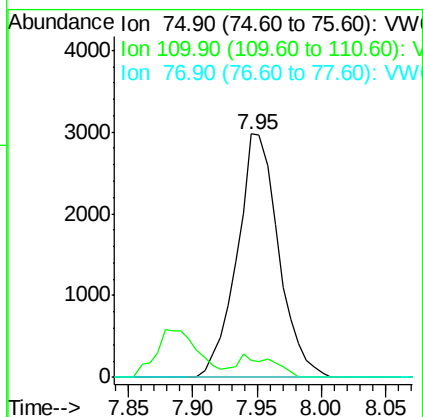
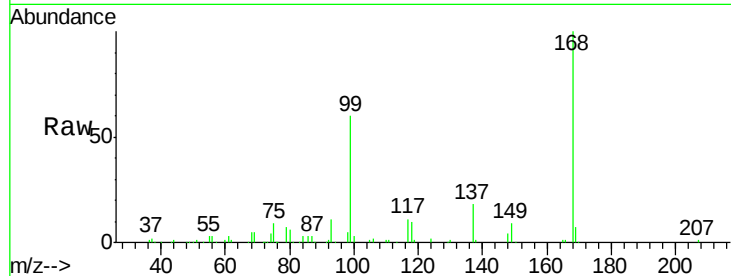




#36  
 1,1-Dichloropropene  
 Concen: 5.05 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.13 min  
 Lab File: VW004024.D  
 Acq: 18 Jul 2018 10:21

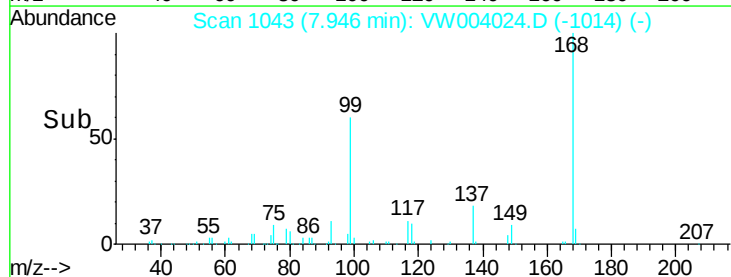
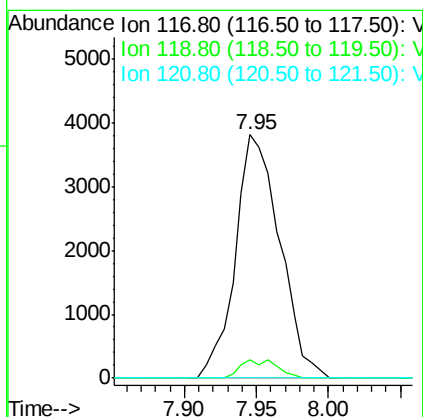
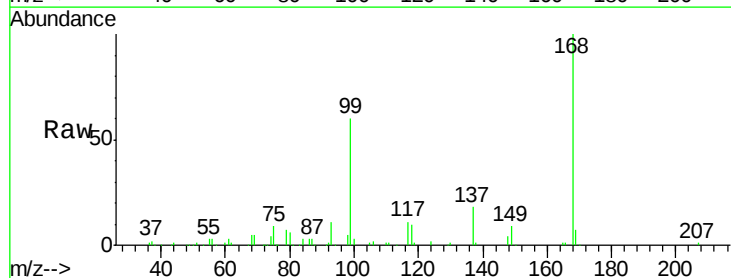
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FS-RT-4917

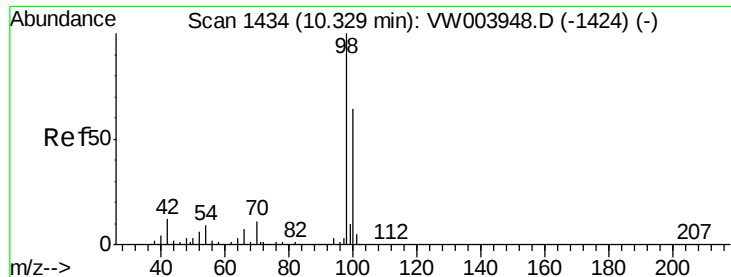
Tot Ion: 75 Resp: 6658  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 17.0 51.0#  
 77 0.0 24.9 37.3#



#38  
 Carbon Tetrachloride  
 Concen: 6.64 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.12 min  
 Lab File: VW004024.D  
 Acq: 18 Jul 2018 10:21

Tgt Ion: 117 Resp: 8175  
 Ion Ratio Lower Upper  
 117 100  
 119 7.7 75.3 112.9#  
 121 0.0 26.0 39.0#





#50

Toluene-d8

Concen: 32.25 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW004024.D

Acq: 18 Jul 2018 10:21

Instrument :

MSVOA\_W

ClientSampleId :

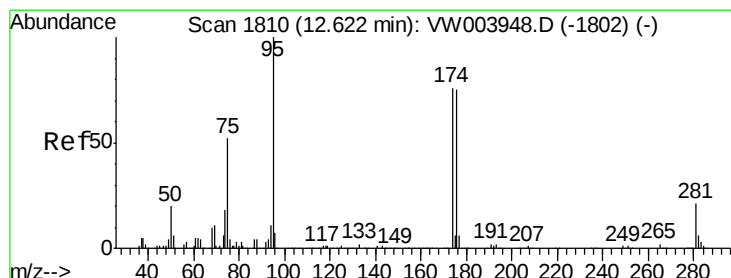
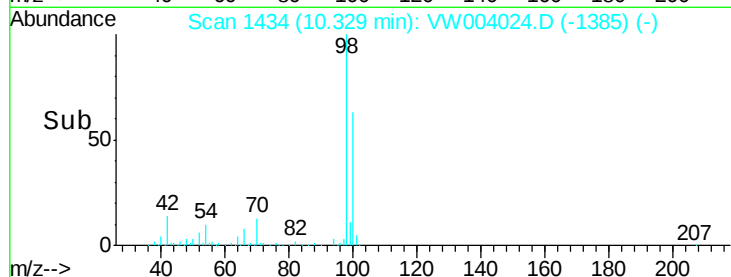
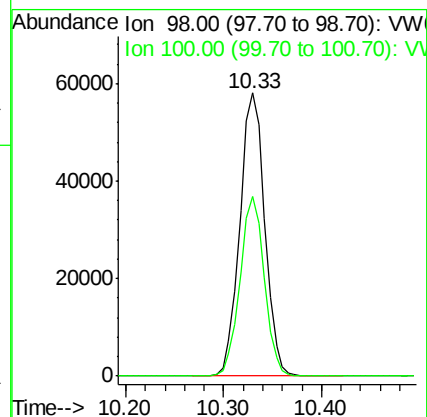
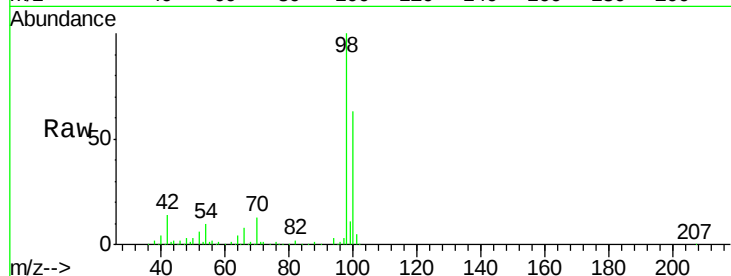
FS-RT-4917

Tot Ion: 98 Resp: 102857

Ion Ratio Lower Upper

98 100

100 61.7 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 30.57 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW004024.D

Acq: 18 Jul 2018 10:21

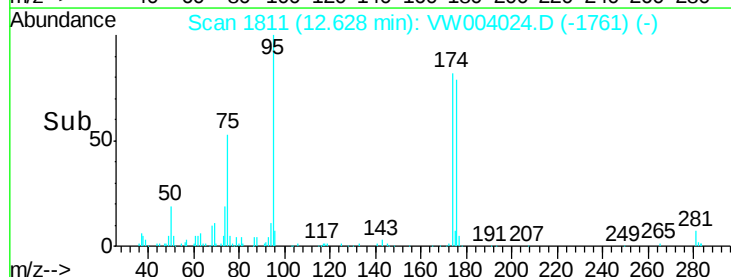
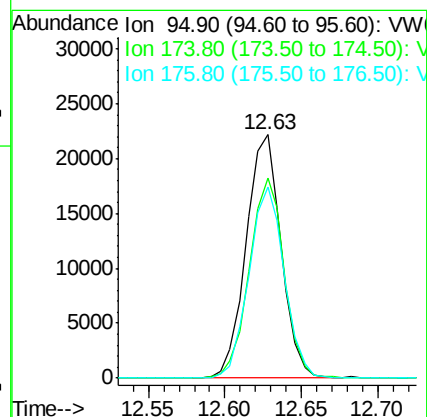
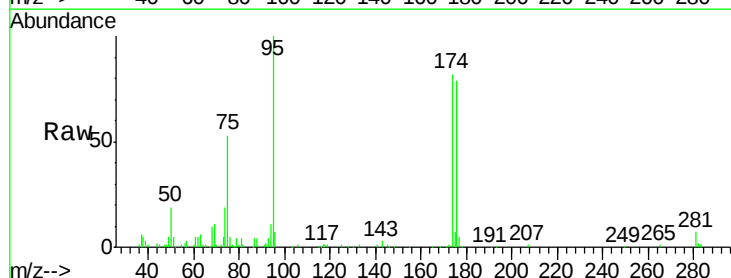
Tgt Ion: 95 Resp: 35167

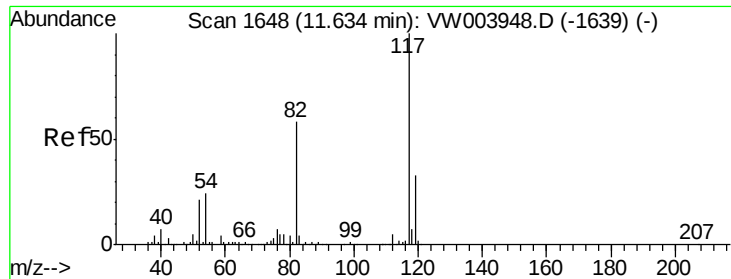
Ion Ratio Lower Upper

95 100

174 81.4 0.0 160.2

176 79.1 0.0 155.8

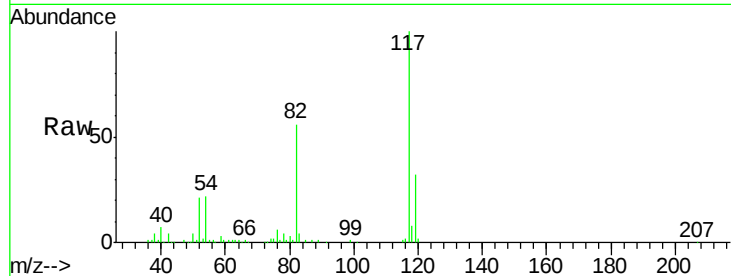




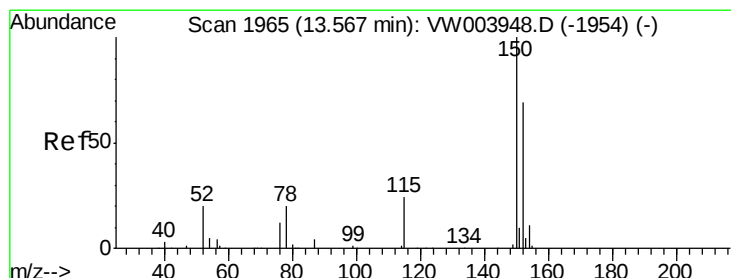
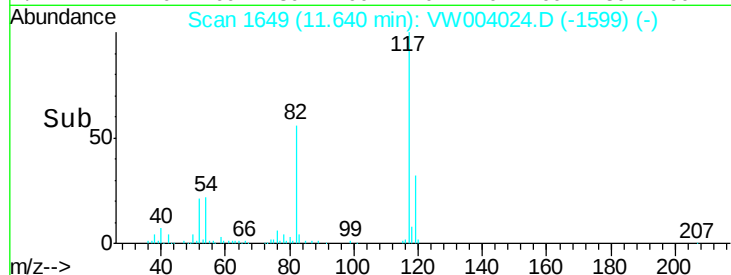
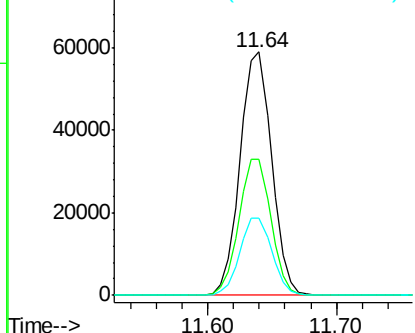
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. 0.01 min  
Lab File: VW004024.D  
Acq: 18 Jul 2018 10:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
FS-RT-4917

Tot Ion:117 Resp: 100180  
Ion Ratio Lower Upper  
117 100  
82 55.8 46.5 69.7  
119 32.0 26.2 39.2

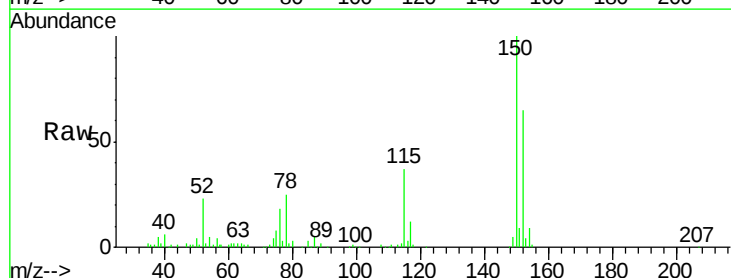


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

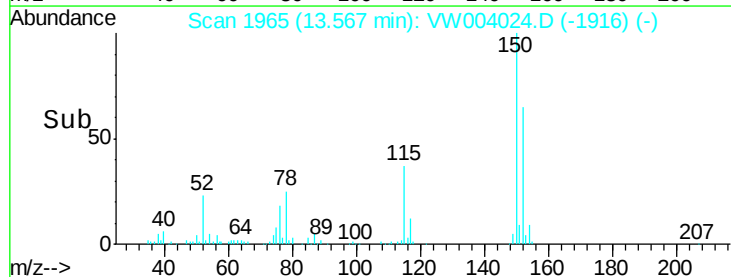
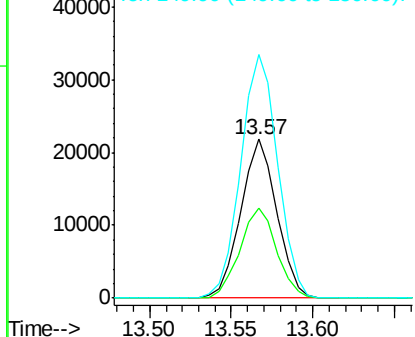


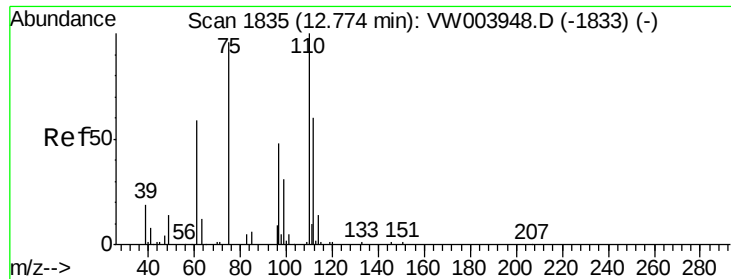
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW004024.D  
Acq: 18 Jul 2018 10:21

Tgt Ion:152 Resp: 33691  
Ion Ratio Lower Upper  
152 100  
115 57.9 29.2 87.6  
150 157.0 0.0 345.2



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: 58.32 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW004024.D

Acq: 18 Jul 2018 10:21

Instrument :

MSVOA\_W

ClientSampleId :

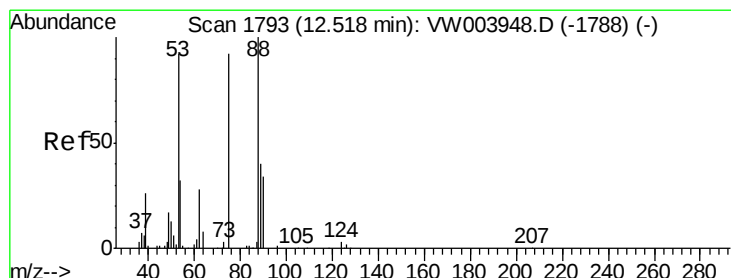
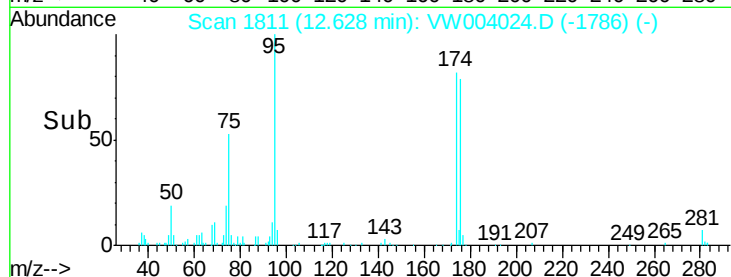
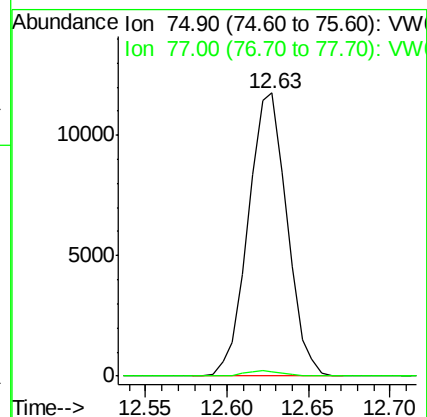
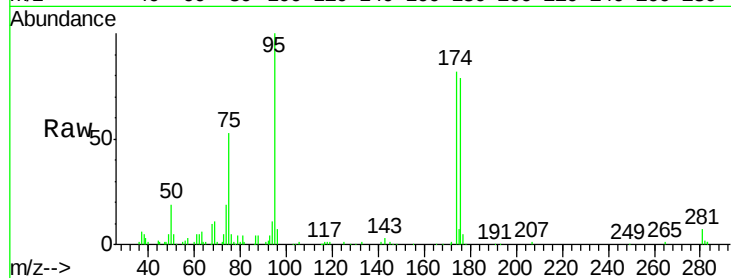
FS-RT-4917

Tot Ion: 75 Resp: 19505

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 128.99 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.11 min

Lab File: VW004024.D

Acq: 18 Jul 2018 10:21

Tgt Ion: 75 Resp: 19505

Ion Ratio Lower Upper

75 100

53 0.0 77.6 116.4#

89 0.2 36.6 54.8#

