

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122218\  
 Data File : VW007761.D  
 Acq On : 20 Dec 2018 21:26  
 Operator : SY/AP  
 Sample : J6392-21  
 Misc : 6.6G/5ML/MSVOA W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 21 03:56:54 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 70897    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 120961   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 104318   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 44007    | 50.00 | ug/l  | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 35427    | 45.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.18%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 32477    | 44.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.02%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 266144   | 95.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 191.34% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 84296    | 78.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 156.88% |          |

| Target Compounds              | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol        | 5.18  | 59   | 1529     | 29.169    | ug/l # | 73     |
| 13) Acrolein                  | 3.84  | 56   | 1579     | 37.674    | ug/l # | 1      |
| 15) Acrylonitrile             | 5.43  | 53   | 42006    | 313.453   | ug/l # | 39     |
| 16) Acetone                   | 4.11  | 43   | 45698    | 314.049   | ug/l # | 76     |
| 17) Carbon Disulfide          | 4.38  | 76   | 4598     | 2.124     | ug/l # | 85     |
| 19) Methyl tert-butyl Ether   | 5.43  | 73   | 12418    | 12.366    | ug/l # | 1      |
| 20) Methylene Chloride        | 4.93  | 84   | 3379     | Below Cal | #      | 1      |
| 23) Vinyl Acetate             | 6.29  | 43   | 6671     | 6.537     | ug/l # | 69     |
| 24) 1,1-Dichloroethane        | 6.29  | 63   | 2984     | 2.362     | ug/l # | 81     |
| 25) 2-Butanone                | 7.17  | 43   | 50139    | 294.178   | ug/l # | 51     |
| 26) 2,2-Dichloropropane       | 6.99  | 77   | 10655    | 11.524    | ug/l # | 53     |
| 29) Tetrahydrofuran           | 7.54  | 42   | 2260     | 22.230    | ug/l # | 27     |
| 30) Chloroform                | 7.63  | 83   | 128596   | 89.931    | ug/l # | 18     |
| 31) Cyclohexane               | 7.94  | 56   | 1549606  | 1339.621  | ug/l # | 53     |
| 37) Ethyl Acetate             | 7.17  | 43   | 50139    | 124.440   | ug/l # | 68     |
| 38) Carbon Tetrachloride      | 7.95  | 117  | 7763     | 5.646     | ug/l # | 15     |
| 39) Methylcyclohexane         | 9.35  | 83   | 4594295  | 3166.879  | ug/l # | 87     |
| 40) Benzene                   | 8.32  | 78   | 998983   | 320.656   | ug/l   | 100    |
| 41) Methacrylonitrile         | 7.52  | 41   | 19666    | 85.969    | ug/l # | 50     |
| 42) 1,2-Dichloroethane        | 8.32  | 62   | 9205     | 8.817     | ug/l # | 1      |
| 43) Isopropyl Acetate         | 8.51  | 43   | 7164647  | 8875.643  | ug/l # | 49     |
| 45) 1,2-Dichloropropane       | 9.34  | 63   | 72685    | 105.145   | ug/l # | 1      |
| 46) Dibromomethane            | 9.42  | 93   | 6733     | 15.822    | ug/l # | 1      |
| 47) Bromodichloromethane      | 9.63  | 83   | 244743   | 218.775   | ug/l # | 51     |
| 48) Methyl methacrylate       | 9.48  | 41   | 273411   | 678.557   | ug/l # | 9      |
| 49) 1,4-Dioxane               | 9.37  | 88   | 21       | 3.113     | ug/l # | 26     |
| 51) 4-Methyl-2-Pentanone      | 10.26 | 43   | 539402   | 1413.923  | ug/l # | 76     |
| 52) Toluene                   | 10.40 | 92   | 96144    | 45.997    | ug/l   | 98     |
| 54) cis-1,3-Dichloropropene   | 10.12 | 75   | 1395     | 1.135     | ug/l # | 1      |
| 55) 1,1,2-Trichloroethane     | 10.77 | 97   | 984824   | 1678.760  | ug/l # | 28     |
| 56) Ethyl methacrylate        | 10.69 | 69   | 175000   | 252.483   | ug/l # | 1      |
| 58) 2-Chloroethyl Vinyl ether | 9.91  | 63   | 29283    | 92.534    | ug/l # | 42     |
| 59) 2-Hexanone                | 10.94 | 43   | 668647   | 2492.232  | ug/l # | 30     |
| 60) Dibromochloromethane      | 11.05 | 129  | 5978     | 7.696     | ug/l   | 83     |

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 Operator : SY/AP  
 Sample : J6392-21  
 Misc : 6.6G/5ML/MSVOA W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

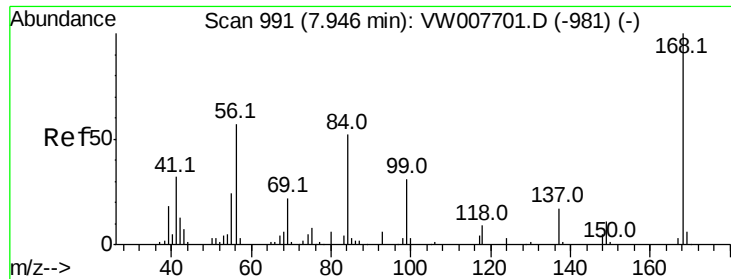
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 21 03:56:54 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 61) 1,2-Dibromoethane          | 11.21 | 107  | 4549     | 7.657     | ug/l # | 1        |
| 65) Chlorobenzene              | 11.53 | 112  | 14706    | 6.513     | ug/l # | 64       |
| 68) m/p-Xylenes                | 11.87 | 106  | 16402964 | 10913.597 | ug/l # | 1        |
| 69) o-Xylene                   | 12.18 | 106  | 11939337 | 8474.497  | ug/l   | 73       |
| 70) Styrene                    | 12.18 | 104  | 669005   | 288.878   | ug/l # | 1        |
| 73) Isopropylbenzene           | 12.47 | 105  | 12771996 | 3839.540  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.26 | 43   | 261068   | 453.095   | ug/l # | 65       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.68 | 83   | 40436    | 81.075    | ug/l # | 61       |
| 76) 1,2,3-Trichloropropane     | 12.82 | 75   | 160193   | 470.972   | ug/l # | 100      |
| 77) Bromobenzene               | 12.91 | 156  | 101559   | 133.221   | ug/l # | 1        |
| 78) n-propylbenzene            | 12.81 | 91   | 19814227 | 5117.062  | ug/l   | 94       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 3920716  | 1738.110  | ug/l # | 41       |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 17705475 | 6170.676  | ug/l   | 85       |
| 81) trans-1,4-Dichloro-2-buten | 12.47 | 75   | 175032   | 1080.180  | ug/l # | 68       |
| 82) 4-Chlorotoluene            | 12.97 | 91   | 2349116  | 978.053   | ug/l # | 42       |
| 83) tert-Butylbenzene          | 13.28 | 119  | 6305744  | 2504.681  | ug/l # | 76       |
| 84) 1,2,4-Trimethylbenzene     | 13.11 | 105  | 18042208 | 6231.602  | ug/l   | 88       |
| 85) sec-Butylbenzene           | 13.40 | 105  | 2046907  | 589.940   | ug/l # | 57       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 1222466  | 387.465   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.84 | 91   | 2780066  | 961.038   | ug/l # | 70       |
| 90) Hexachloroethane           | 14.11 | 117  | 1088833  | 1965.755  | ug/l # | 13       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.47 | 75   | 62214    | 607.414   | ug/l # | 3        |
| 95) Naphthalene                | 15.38 | 128  | 8762429  | 5038.181  | ug/l   | 98       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

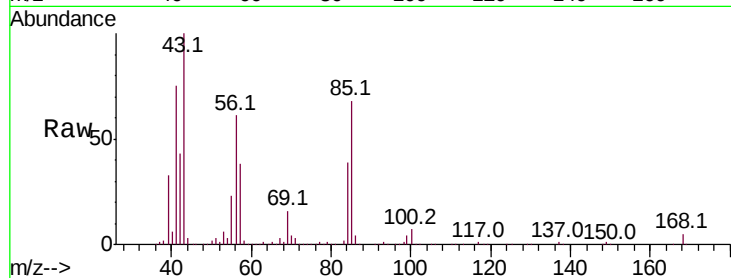
ClientSampled :

Tot Ion:168 Resp: 70897

Ion Ratio Lower Upper

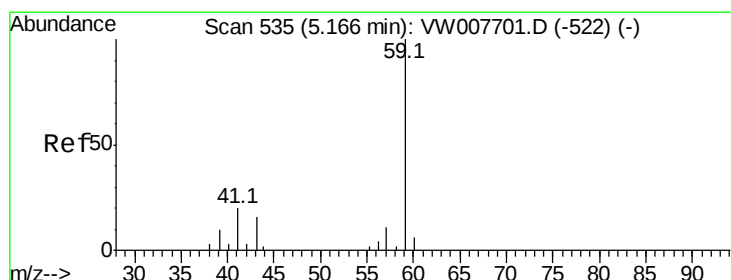
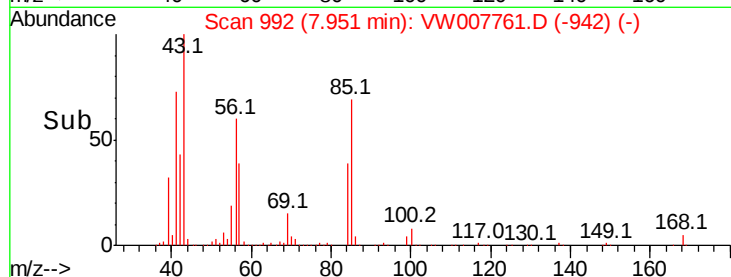
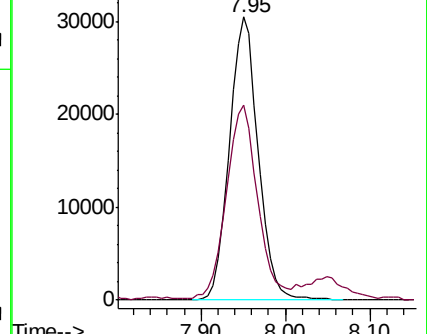
168 100

99 68.4 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 29.169 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.02 min

Lab File: VW007761.D

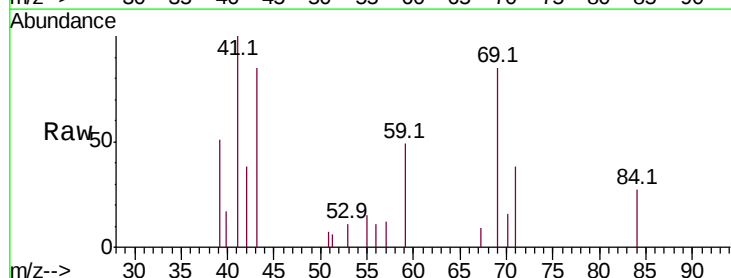
Acq: 20 Dec 2018 21:26

Tgt Ion: 59 Resp: 1529

Ion Ratio Lower Upper

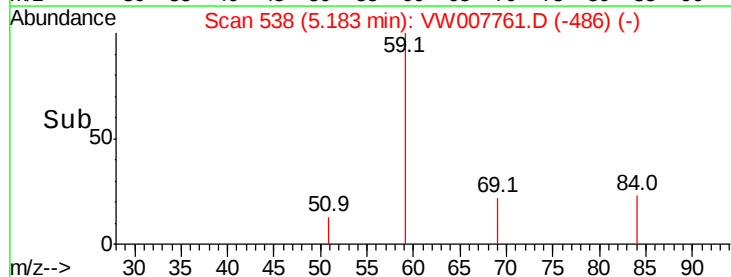
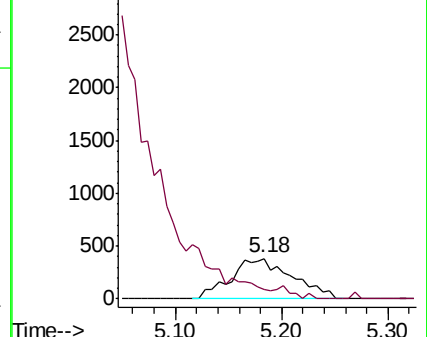
59 100

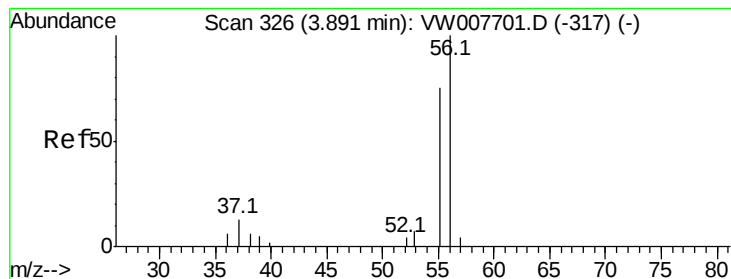
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 37.674 ug/l

RT: 3.84 min Scan# 317

Delta R.T. -0.06 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

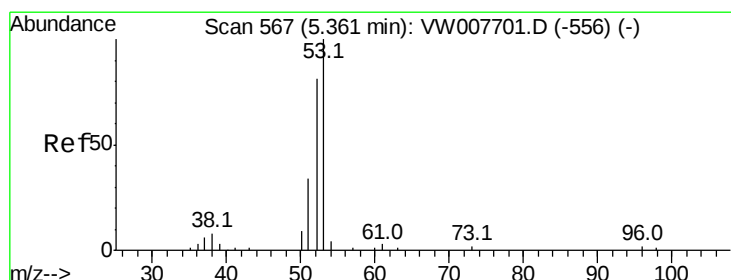
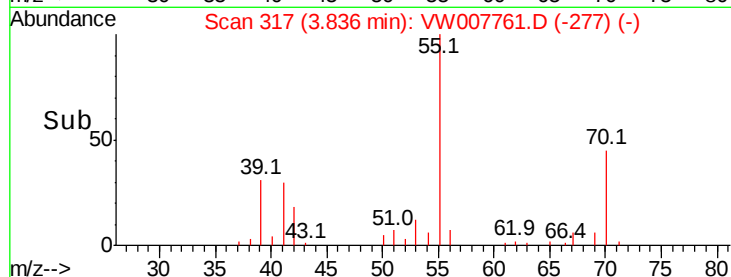
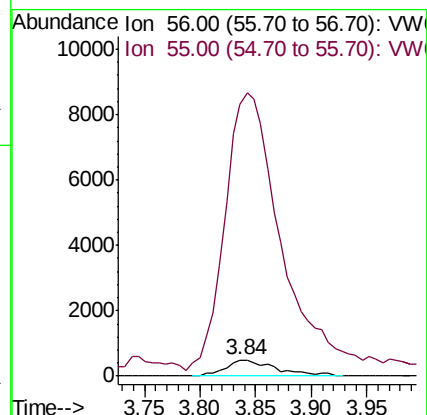
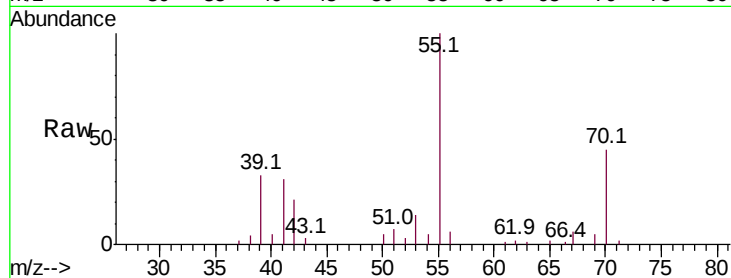
ClientSampleId :

Tot Ion: 56 Resp: 1579

Ion Ratio Lower Upper

56 100

55 1905.3 57.7 86.5#



#15

Acrylonitrile

Concen: 313.453 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.07 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

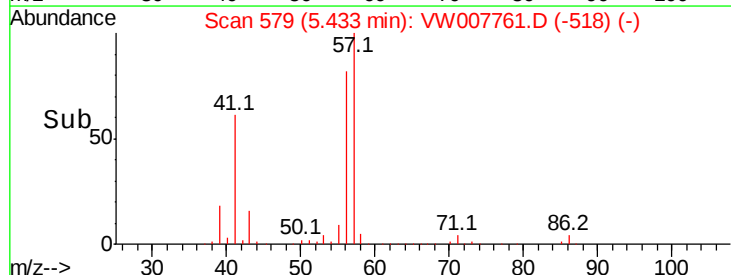
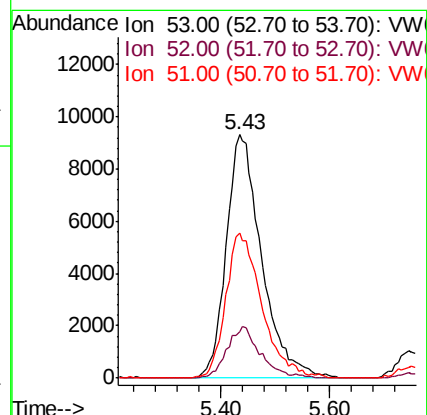
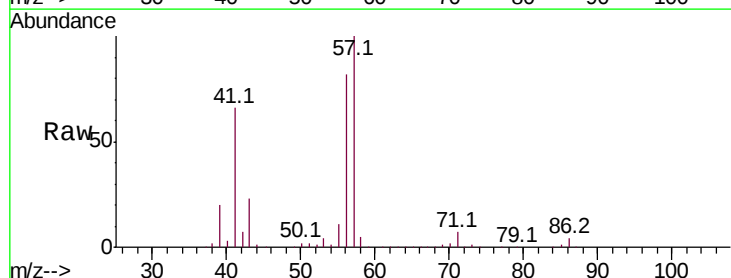
Tgt Ion: 53 Resp: 42006

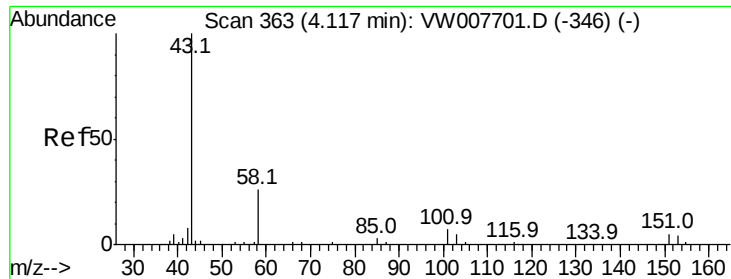
Ion Ratio Lower Upper

53 100

52 19.6 67.0 100.4#

51 60.5 30.2 45.2#





#16

Acetone

Concen: 314.049 ug/l

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

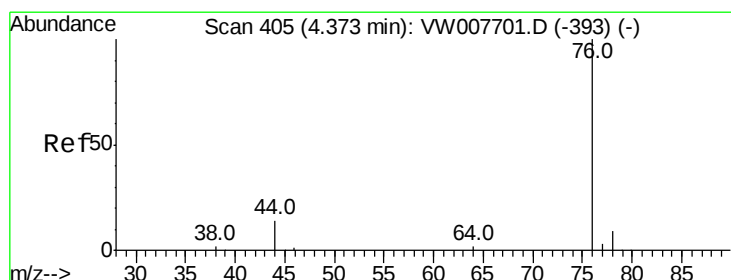
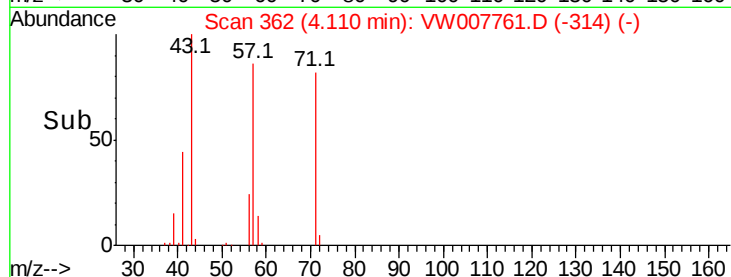
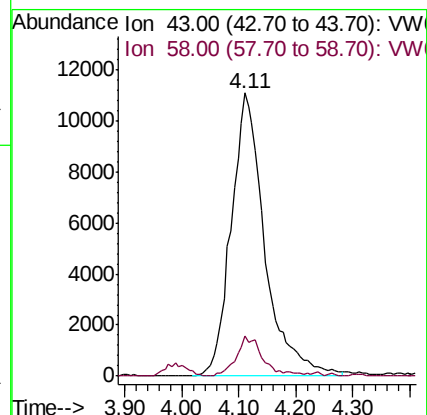
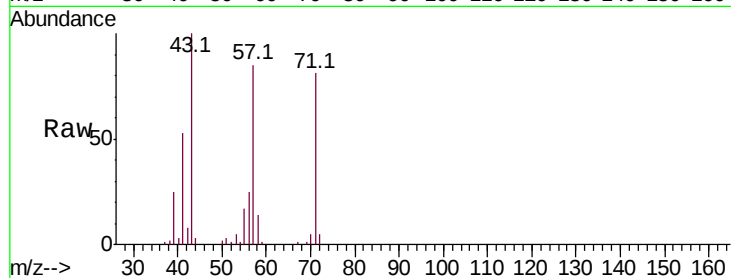
ClientSampled :

Tot Ion: 43 Resp: 45698

Ion Ratio Lower Upper

43 100

58 14.1 21.2 31.8#



#17

Carbon Disulfide

Concen: 2.124 ug/l

RT: 4.38 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW007761.D

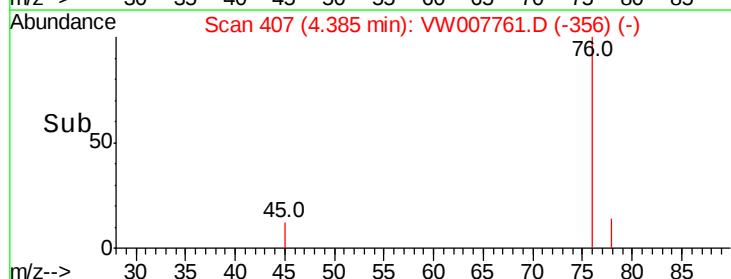
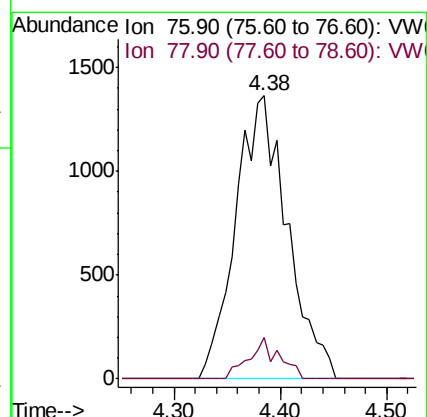
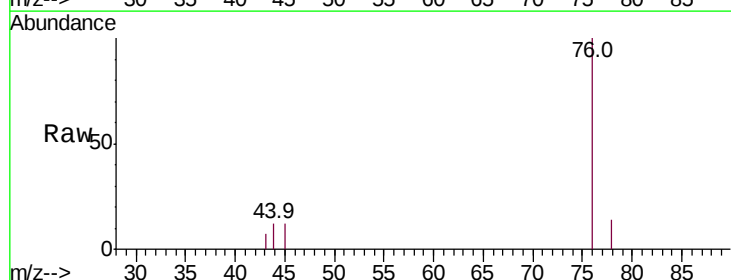
Acq: 20 Dec 2018 21:26

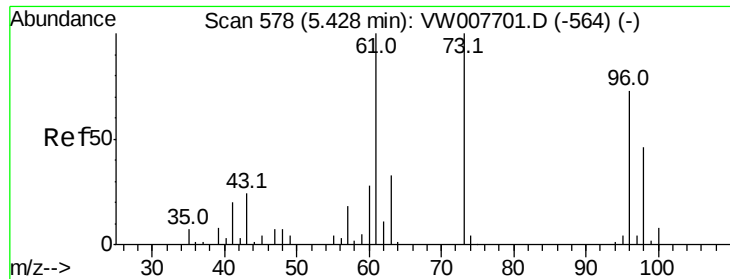
Tgt Ion: 76 Resp: 4598

Ion Ratio Lower Upper

76 100

78 14.5 7.3 10.9#

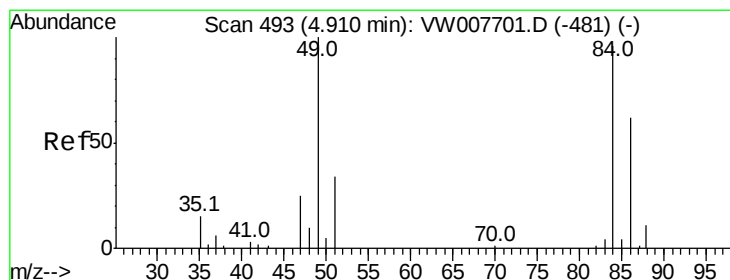
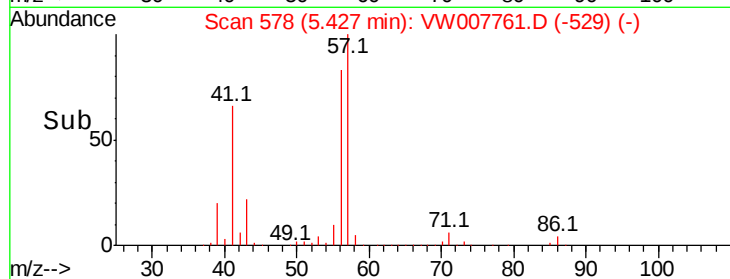
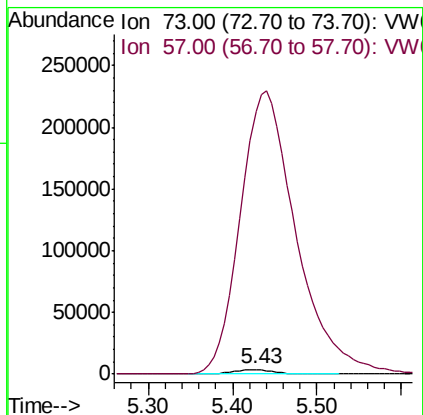
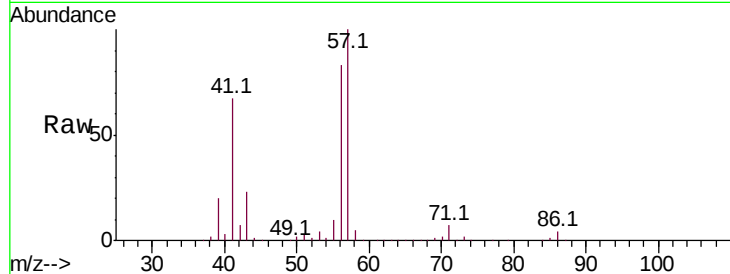




#19  
Methyl tert-butyl Ether  
Concen: 12.366 ug/l  
RT: 5.43 min Scan# 578  
Delta R.T. -0.00 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

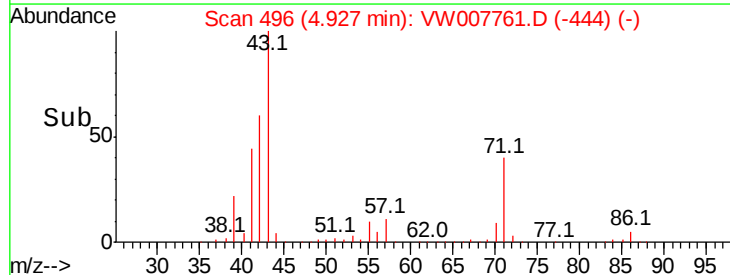
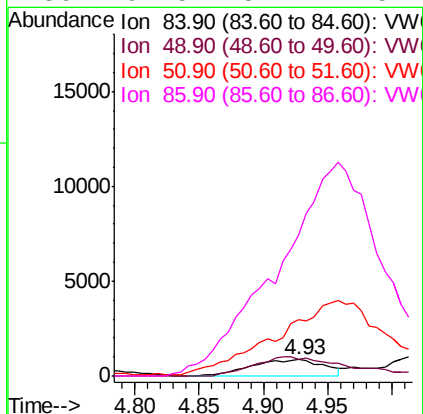
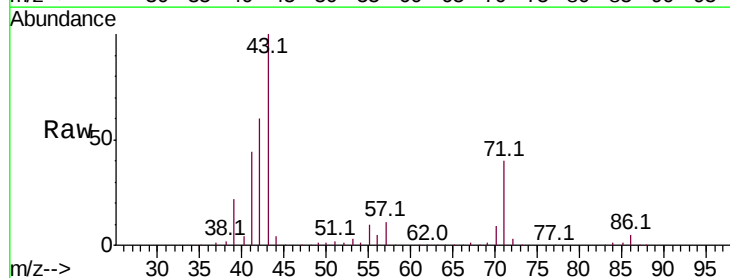
Instrument :  
MSVOA\_W  
ClientSampled :

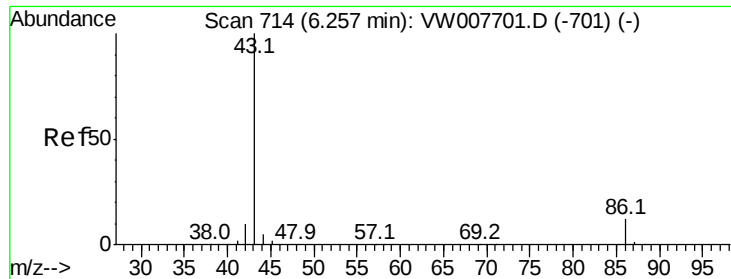
Tot Ion: 73 Resp: 12418  
Ion Ratio Lower Upper  
73 100  
57 6021.6 14.7 22.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.93 min Scan# 496  
Delta R.T. 0.02 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

Tgt Ion: 84 Resp: 3379  
Ion Ratio Lower Upper  
84 100  
49 100.1 83.7 125.5  
51 323.9 28.2 42.2#  
86 792.5 52.2 78.2#





#23

Vinyl Acetate

Concen: 6.537 ug/l

RT: 6.29 min Scan# 719

Delta R.T. 0.03 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

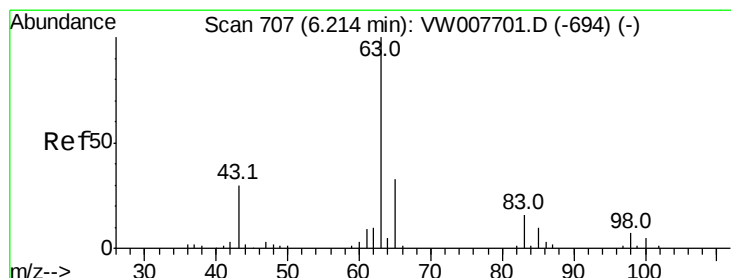
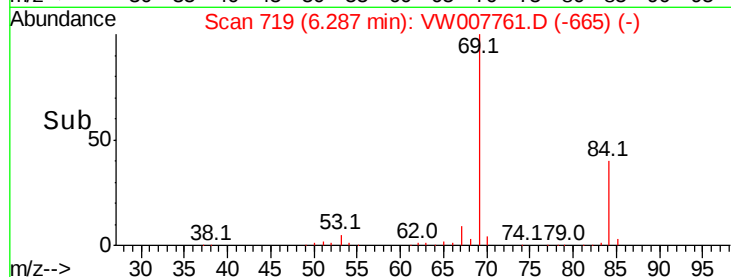
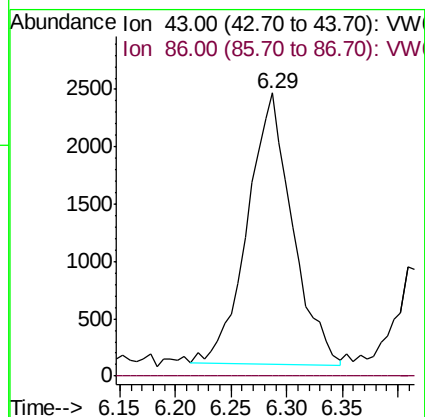
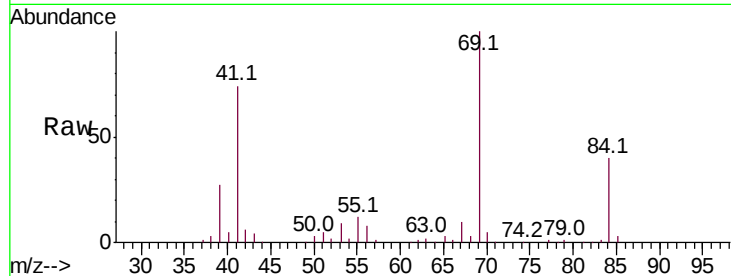
ClientSampled :

Tot Ion: 43 Resp: 6671

Ion Ratio Lower Upper

43 100

86 0.0 9.6 14.4#



#24

1,1-Dichloroethane

Concen: 2.362 ug/l

RT: 6.29 min Scan# 719

Delta R.T. 0.07 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

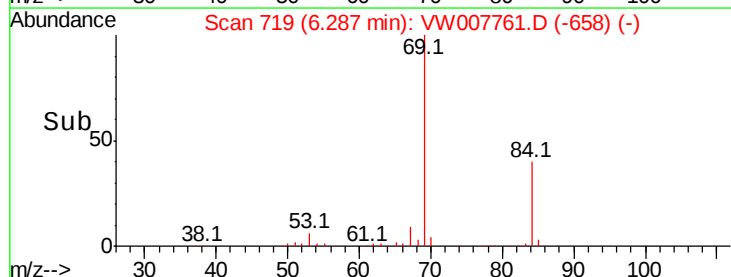
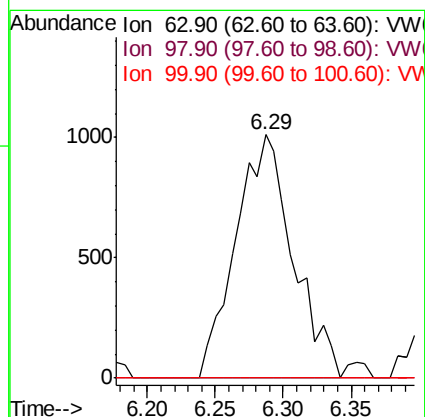
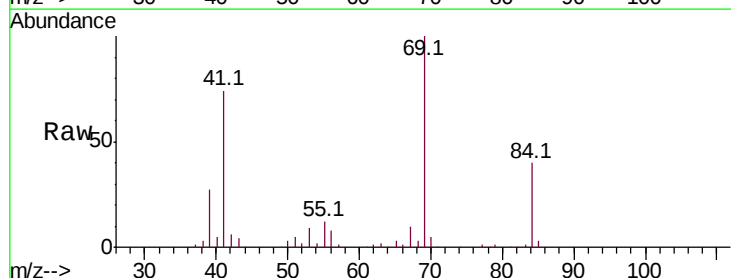
Tgt Ion: 63 Resp: 2984

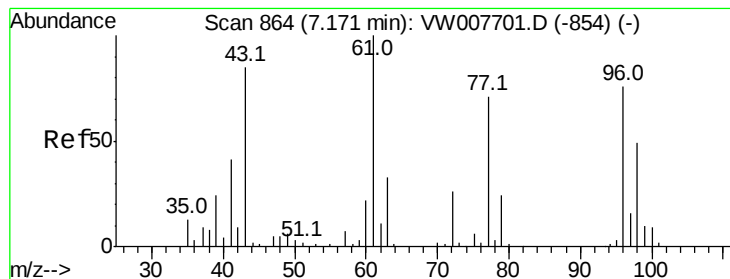
Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.9#

100 0.0 2.5 7.5#





#25

2-Butanone

Concen: 294.178 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

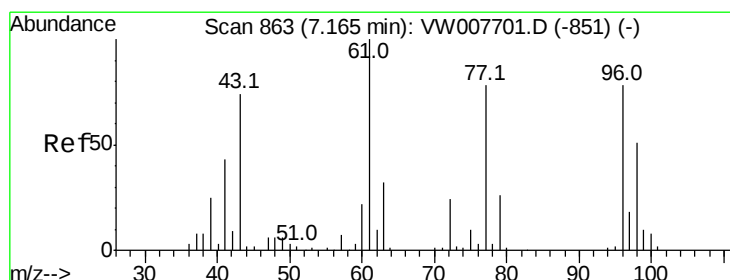
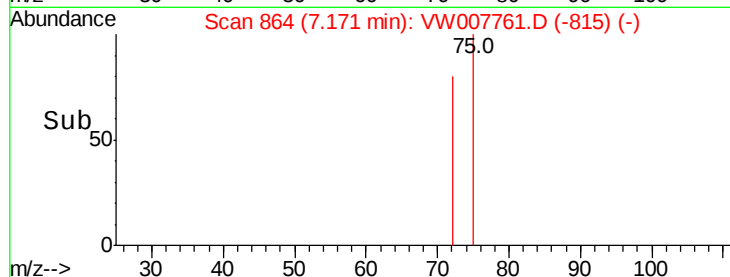
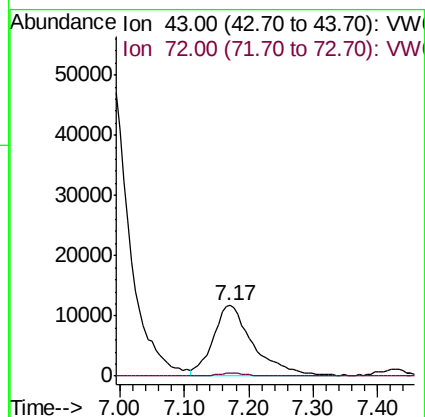
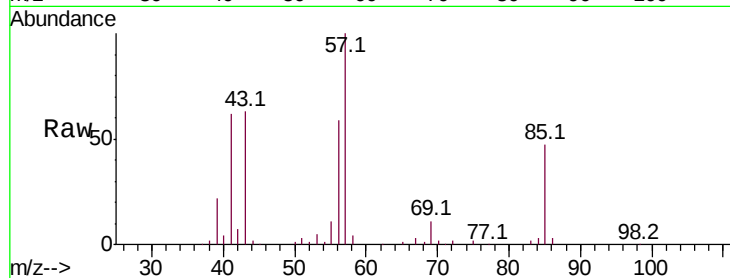
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 50139

Ion Ratio Lower Upper

43 100

72 3.9 24.5 36.7#



#26

2,2-Dichloropropane

Concen: 11.524 ug/l

RT: 6.99 min Scan# 834

Delta R.T. -0.18 min

Lab File: VW007761.D

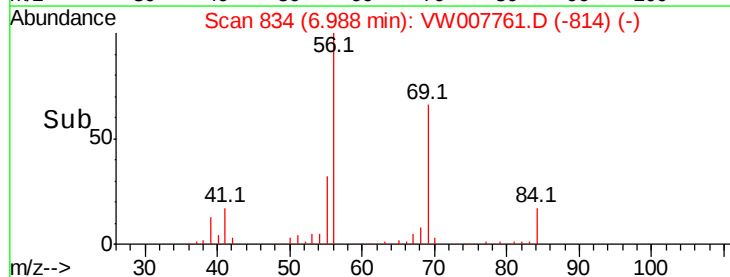
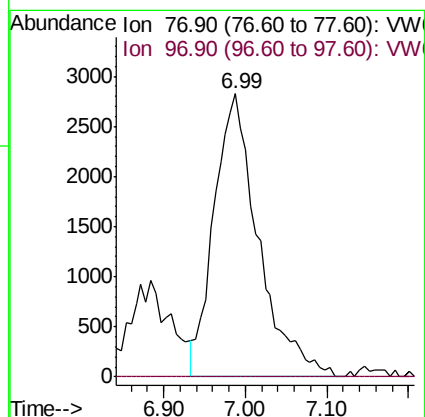
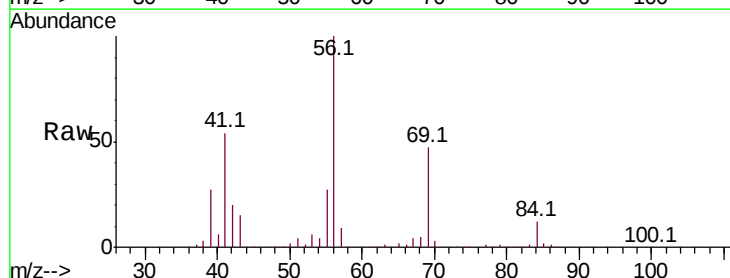
Acq: 20 Dec 2018 21:26

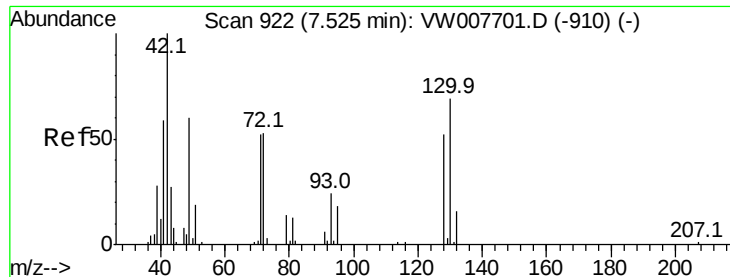
Tgt Ion: 77 Resp: 10655

Ion Ratio Lower Upper

77 100

97 0.0 11.3 33.9#





#29

Tetrahydrofuran

Concen: 22.230 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

ClientSampleId :

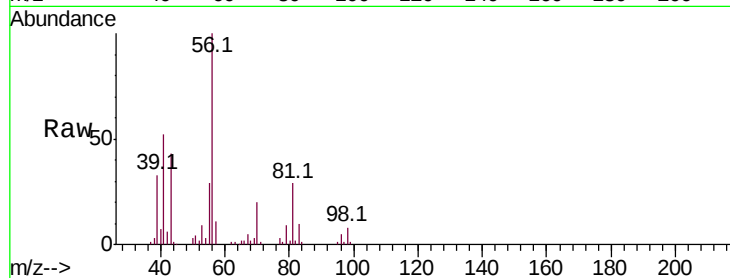
Tot Ion: 42 Resp: 2260

Ion Ratio Lower Upper

42 100

72 0.0 41.7 62.5#

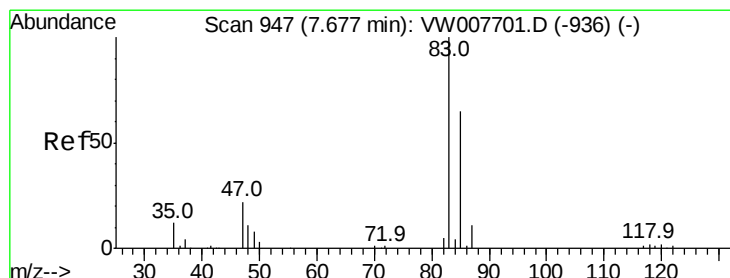
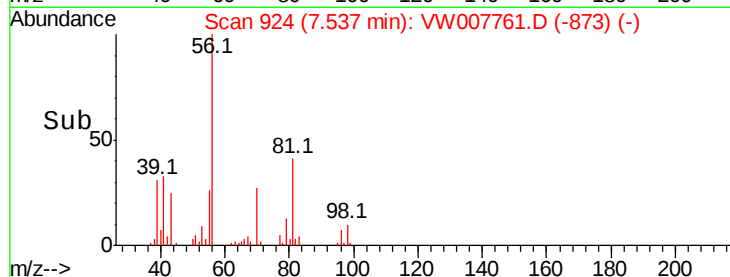
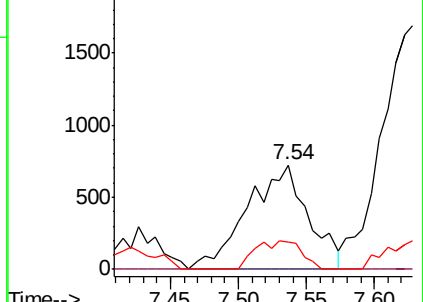
71 0.0 39.0 58.6#



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



#30

Chloroform

Concen: 89.931 ug/l

RT: 7.63 min Scan# 940

Delta R.T. -0.04 min

Lab File: VW007761.D

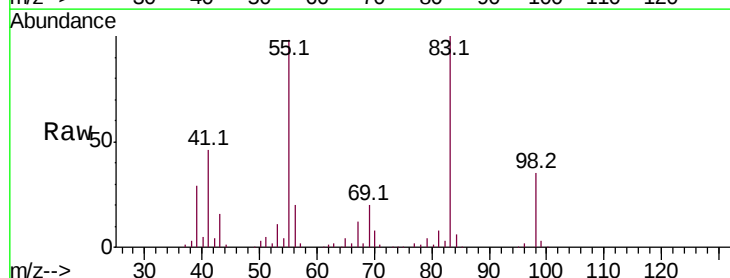
Acq: 20 Dec 2018 21:26

Tgt Ion: 83 Resp: 128596

Ion Ratio Lower Upper

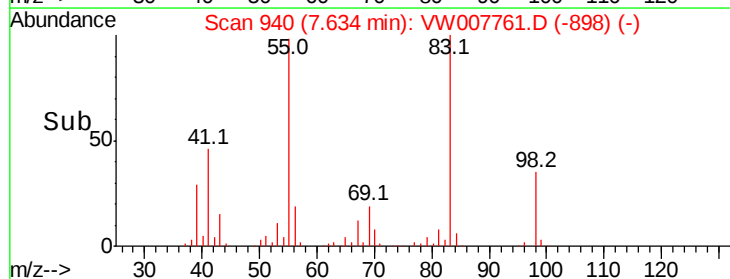
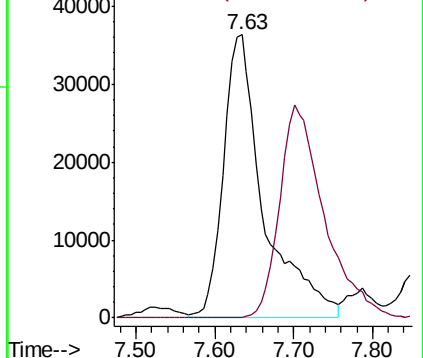
83 100

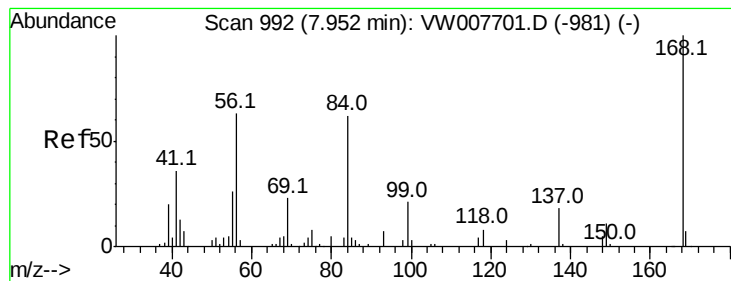
85 0.4 52.2 78.2#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 1339.621 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

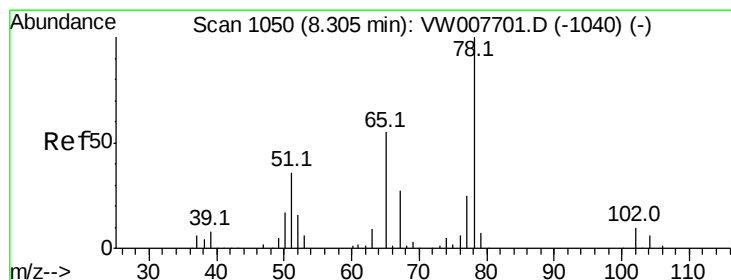
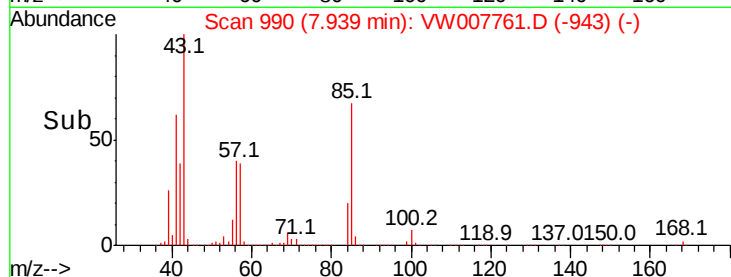
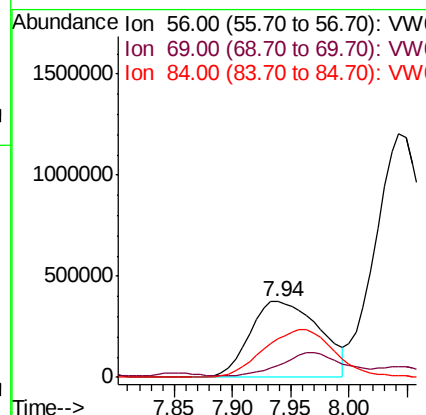
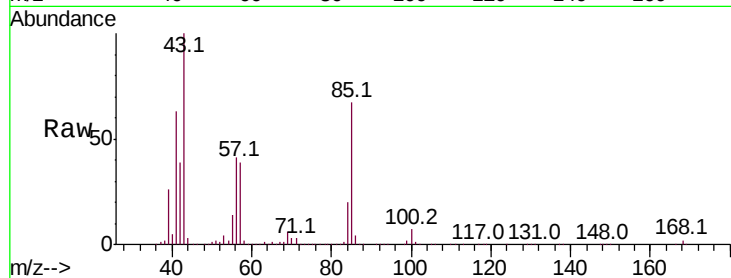
Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 1549606

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 11.1  | 29.7  | 44.5#  |
| 84  | 50.8  | 78.9  | 118.3# |



#33

1,2-Dichloroethane-d4

Concen: 45.591 ug/l

RT: 8.30 min Scan# 1050

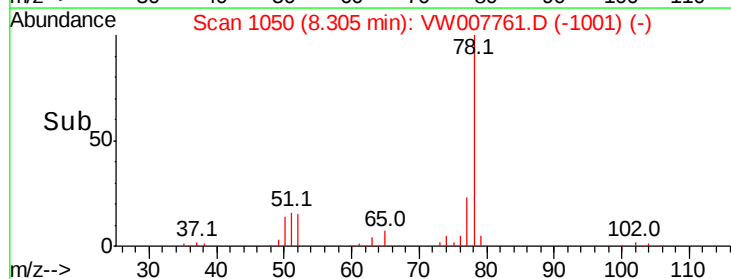
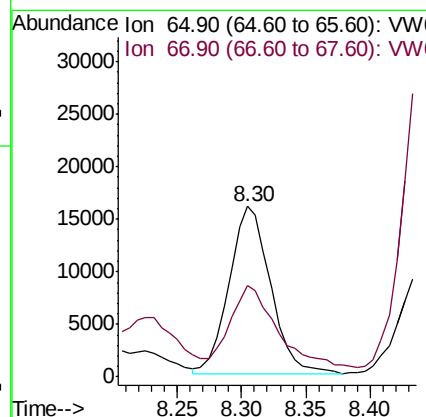
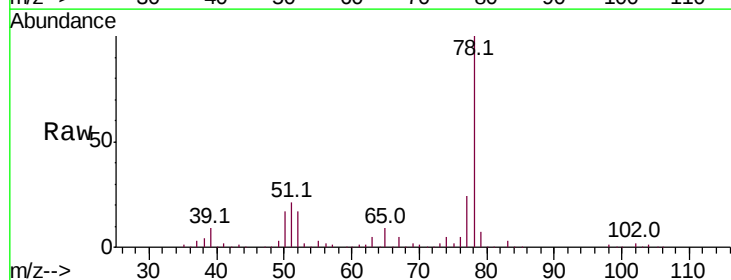
Delta R.T. -0.00 min

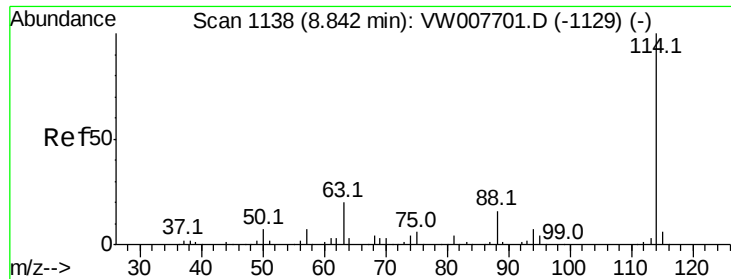
Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Tgt Ion: 65 Resp: 35427

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 54.6  | 0.0   | 100.6 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

ClientSampleId :

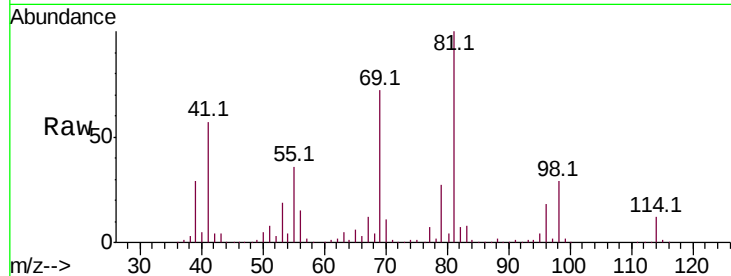
Tot Ion:114 Resp: 120961

Ion Ratio Lower Upper

114 100

63 42.3 0.0 40.0#

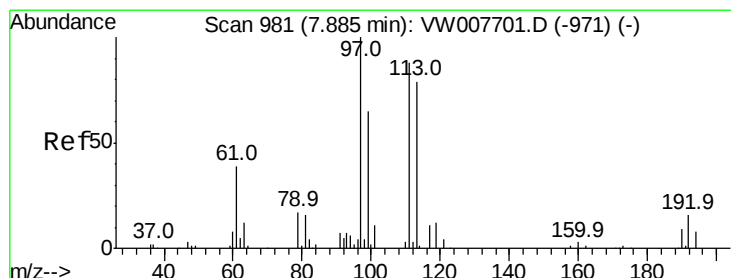
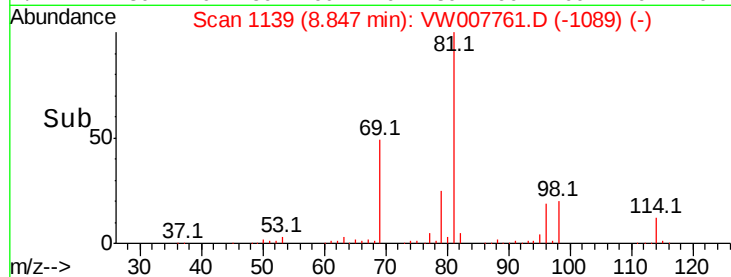
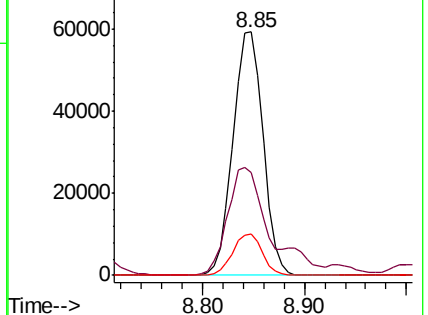
88 16.9 0.0 32.6



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: 44.011 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

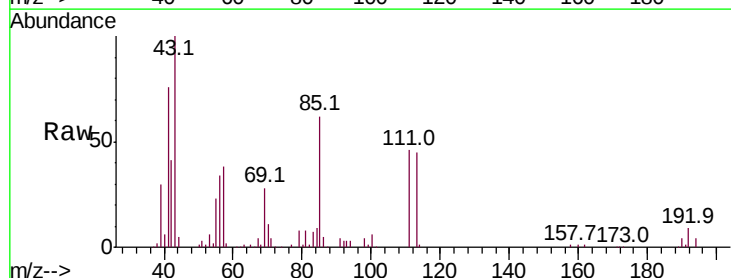
Tgt Ion:113 Resp: 32477

Ion Ratio Lower Upper

113 100

111 102.0 82.6 124.0

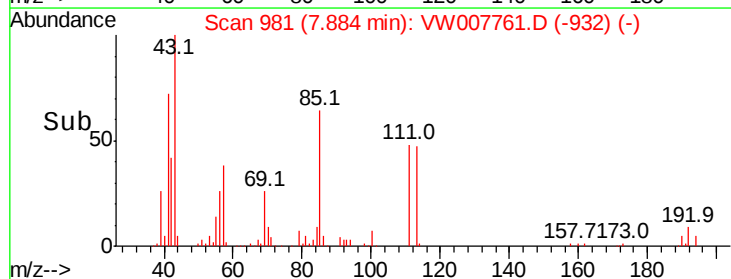
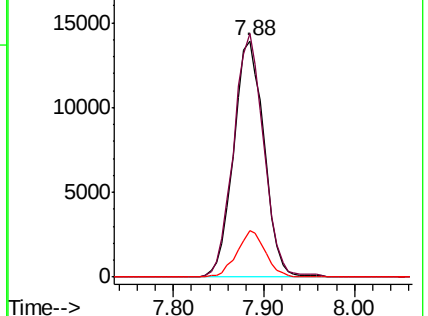
192 18.4 15.5 23.3

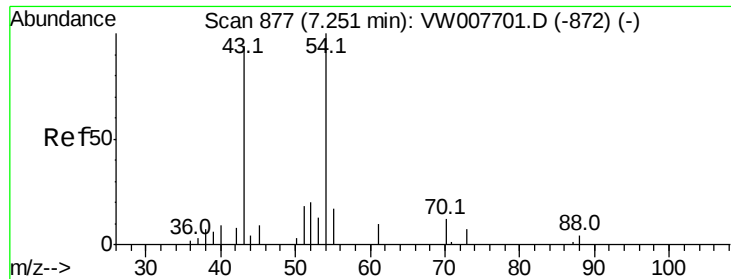


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

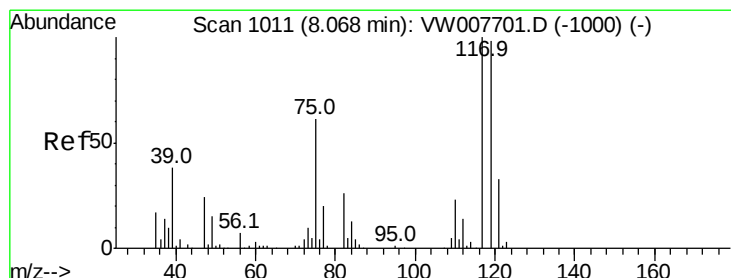
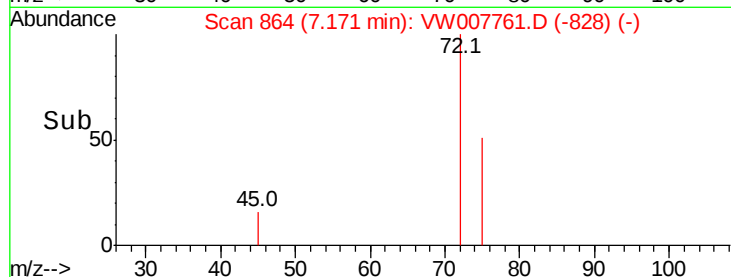
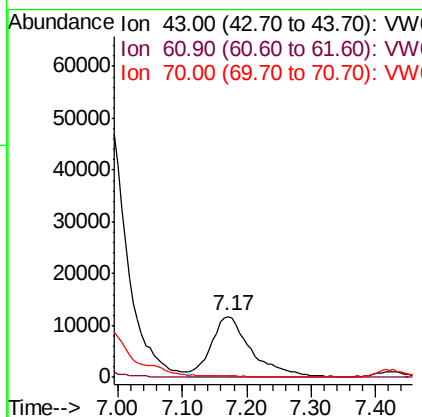
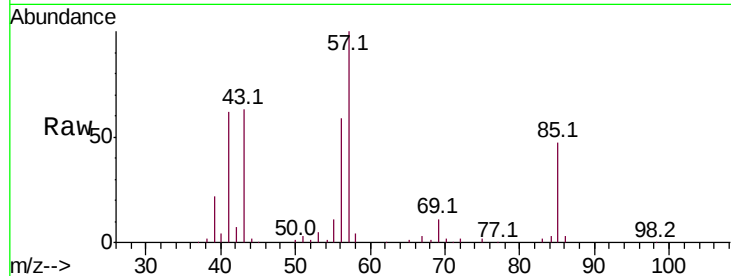




#37  
Ethyl Acetate  
Concen: 124.440 ug/l  
RT: 7.17 min Scan# 864  
Delta R.T. -0.08 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

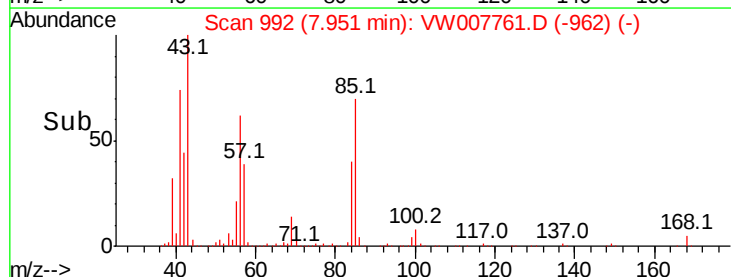
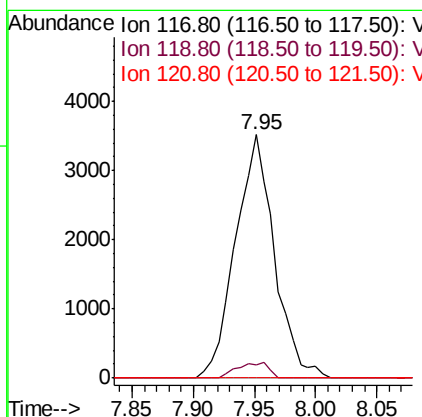
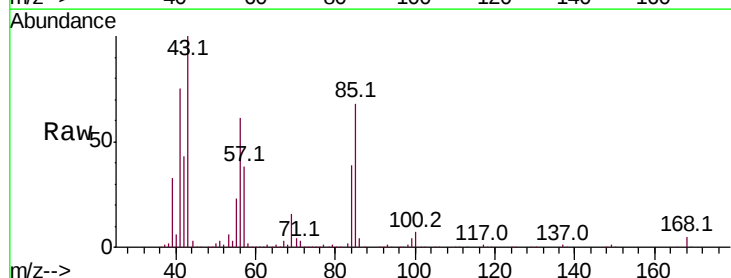
Instrument :  
MSVOA\_W  
ClientSampleId :

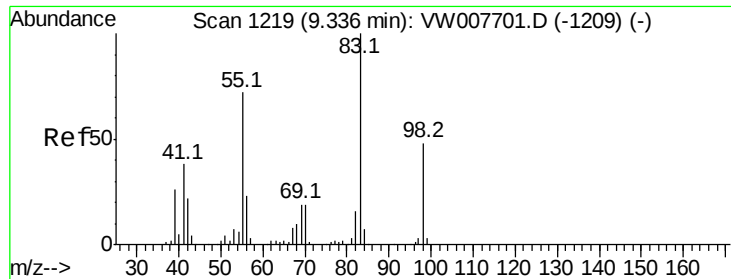
Tot Ion: 43 Resp: 50139  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.2 16.8#  
70 0.0 9.3 13.9#



#38  
Carbon Tetrachloride  
Concen: 5.646 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

Tgt Ion: 117 Resp: 7763  
Ion Ratio Lower Upper  
117 100  
119 5.2 78.2 117.2#  
121 0.0 26.1 39.1#

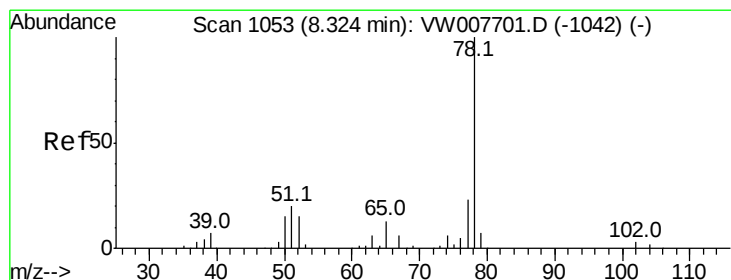
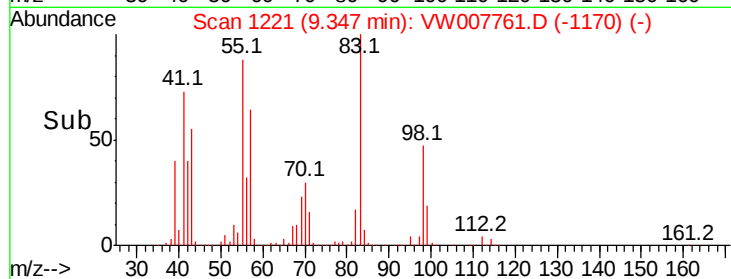
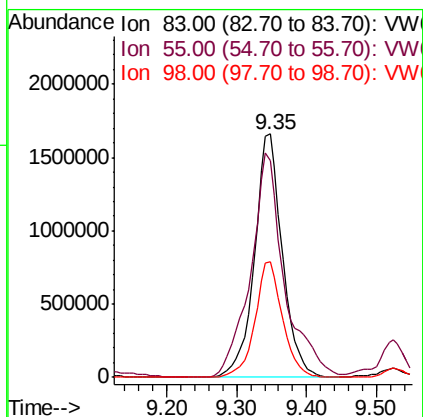
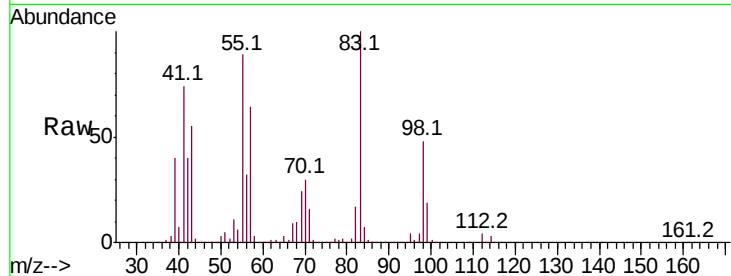




#39  
Methvlcvclohexane  
Concen: 3166.879 ug/l  
RT: 9.35 min Scan# 1221  
Delta R.T. 0.01 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

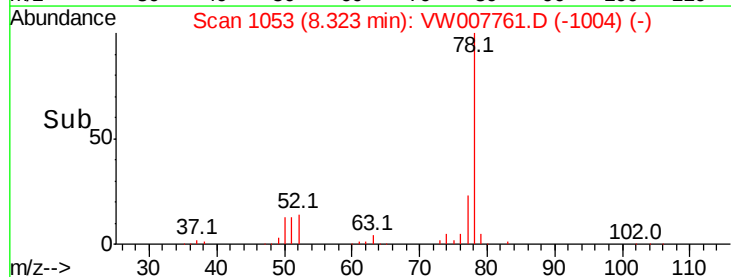
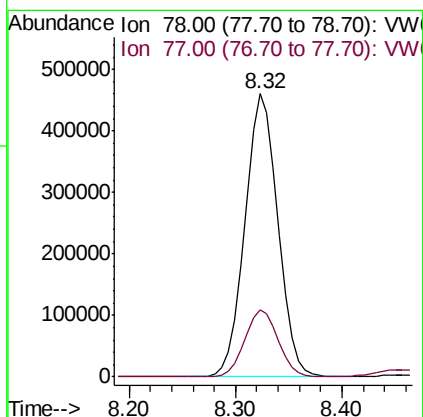
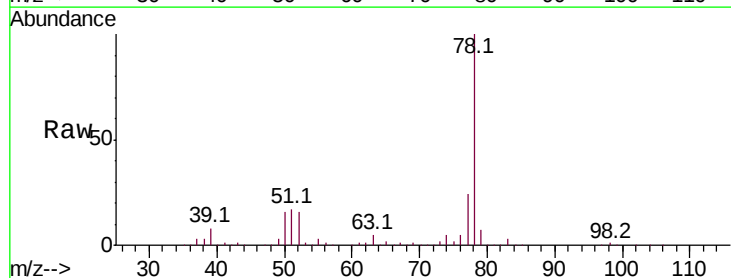
Instrument :  
MSVOA\_W  
ClientSampleId :

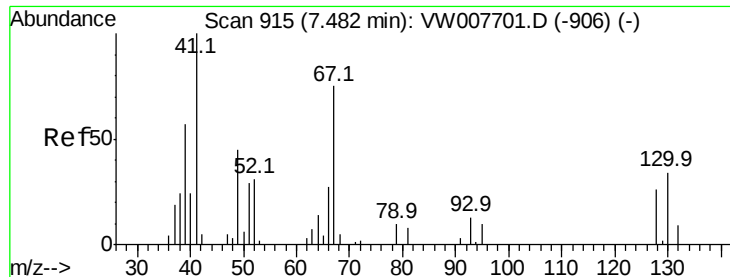
Tot Ion: 83 Resp: 4594295  
Ion Ratio Lower Upper  
83 100  
55 88.7 57.2 85.8#  
98 47.6 38.6 58.0



#40  
Benzene  
Concen: 320.656 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

Tgt Ion: 78 Resp: 998983  
Ion Ratio Lower Upper  
78 100  
77 23.5 18.7 28.1

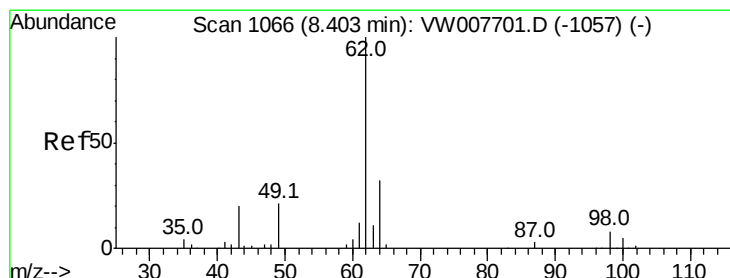
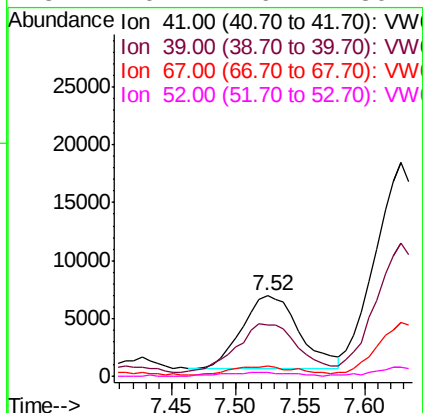
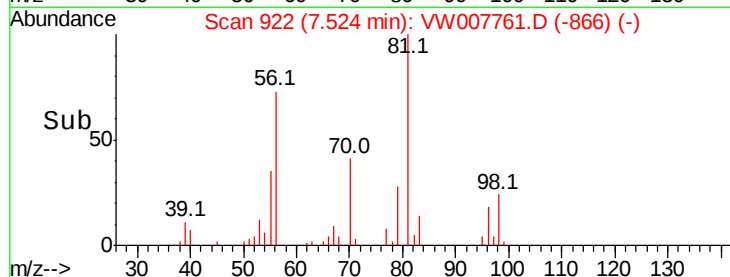
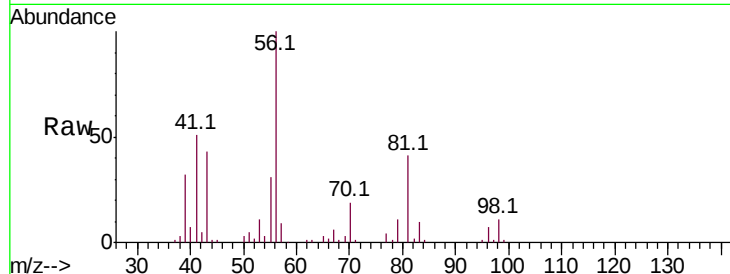




#41  
Methacrylonitrile  
Concen: 85.969 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. 0.04 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

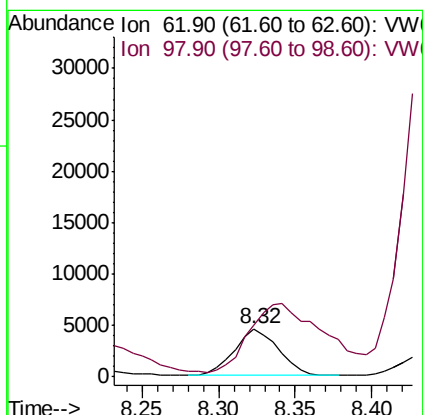
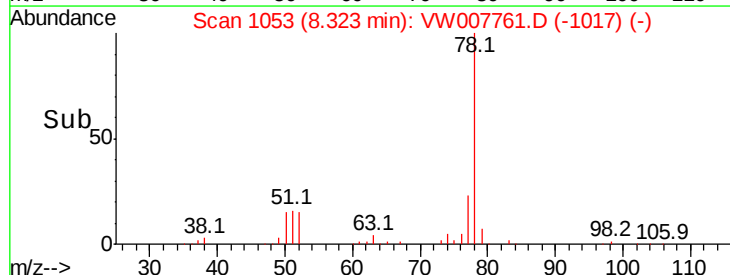
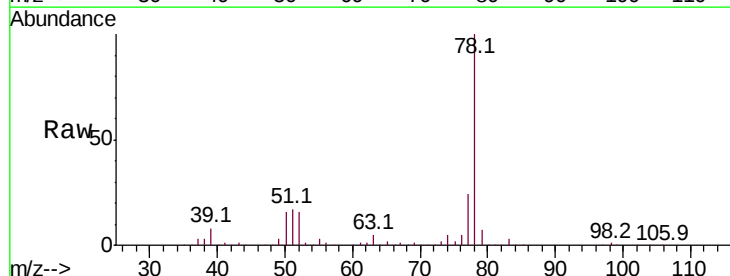
Instrument :  
MSVOA\_W  
ClientSampled :

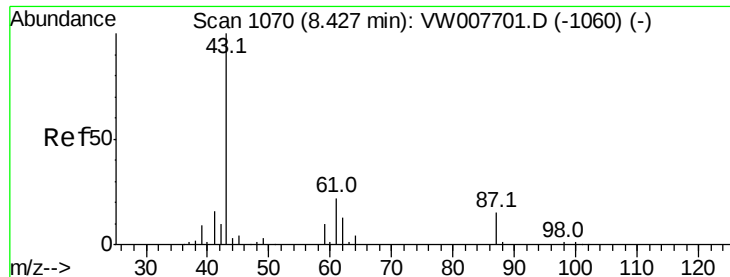
Tot Ion: 41 Resp: 19666  
Ion Ratio Lower Upper  
41 100  
39 69.7 54.2 81.4  
67 0.0 65.7 98.5#  
52 6.4 26.2 39.4#



#42  
1,2-Dichloroethane  
Concen: 8.817 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.08 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

Tgt Ion: 62 Resp: 9205  
Ion Ratio Lower Upper  
62 100  
98 244.3 0.0 16.6#





#43

Isopropyl Acetate

Concen: 8875.643 ug/l

RT: 8.51 min Scan# 1083

Delta R.T. 0.08 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

ClientSampled :

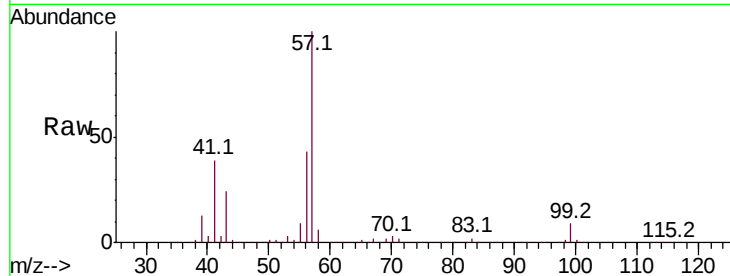
Tot Ion: 43 Resp: 7164647

Ion Ratio Lower Upper

43 100

61 0.1 26.3 39.5#

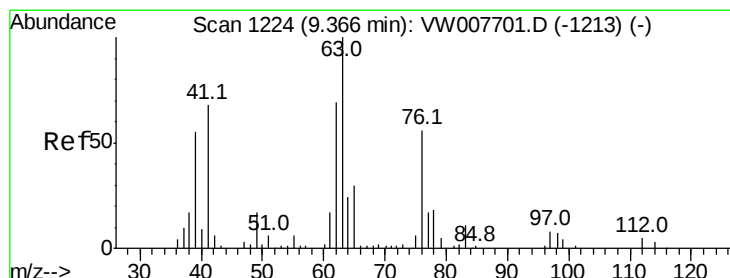
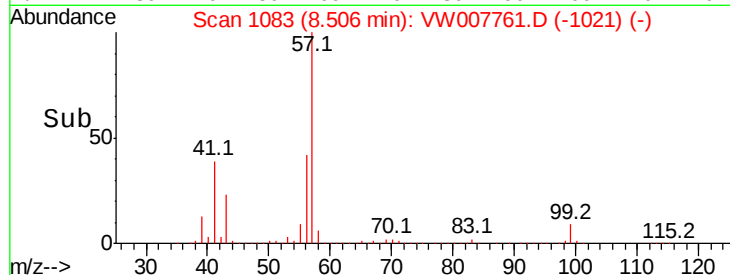
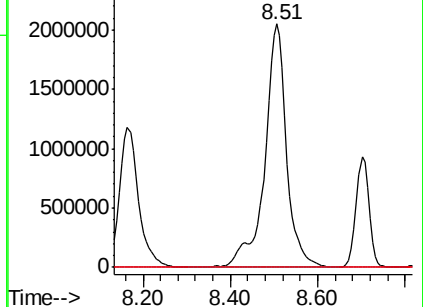
87 0.0 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#45

1,2-Dichloropropane

Concen: 105.145 ug/l

RT: 9.34 min Scan# 1220

Delta R.T. -0.02 min

Lab File: VW007761.D

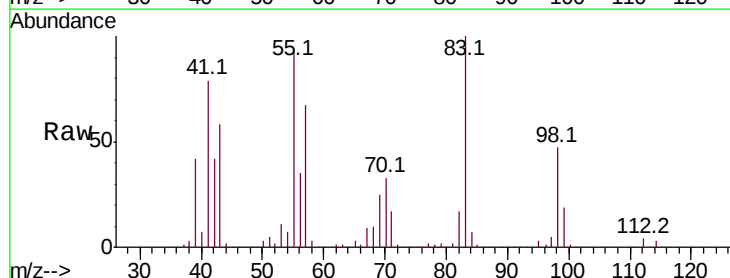
Acq: 20 Dec 2018 21:26

Tgt Ion: 63 Resp: 72685

Ion Ratio Lower Upper

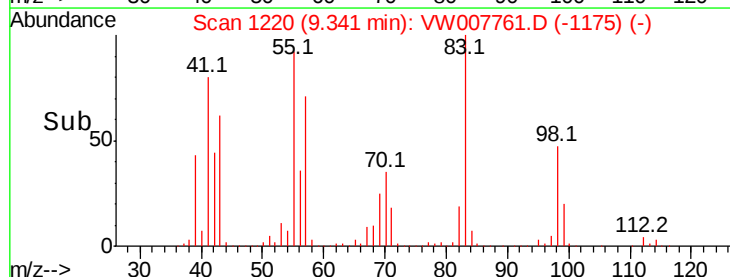
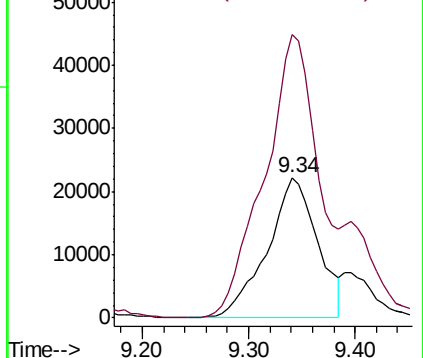
63 100

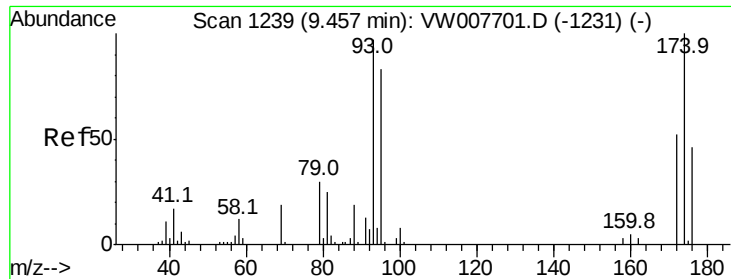
65 201.0 23.8 35.8#



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW





#46

Dibromomethane

Concen: 15.822 ug/l

RT: 9.42 min Scan# 1233

Delta R.T. -0.04 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

ClientSampled :

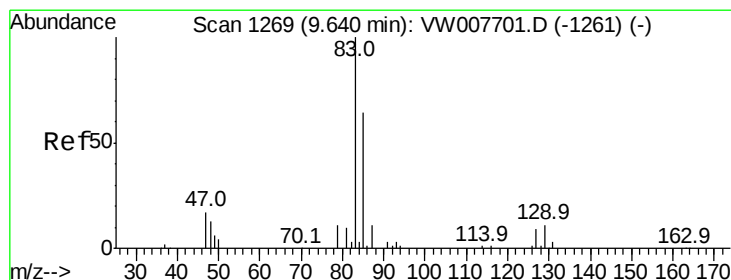
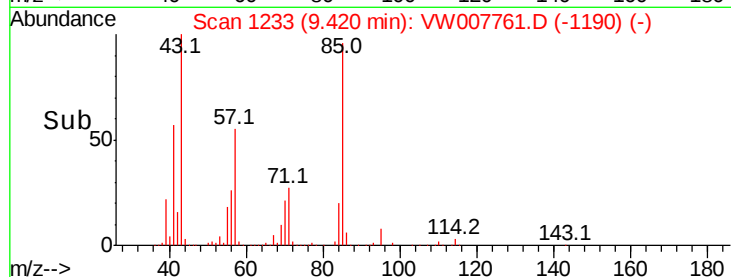
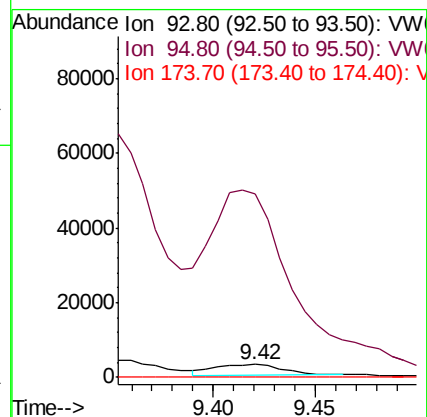
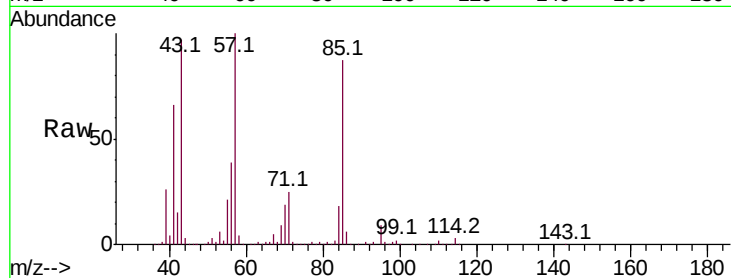
Tot Ion: 93 Resp: 6733

Ion Ratio Lower Upper

93 100

95 2247.7 67.5 101.3#

174 0.0 83.9 125.9#



#47

Bromodichloromethane

Concen: 218.775 ug/l

RT: 9.63 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

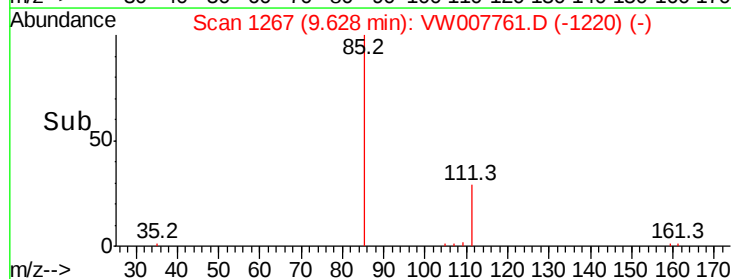
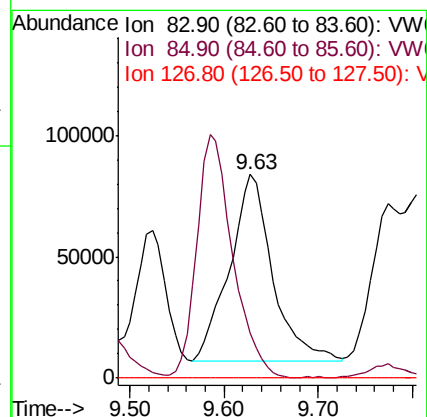
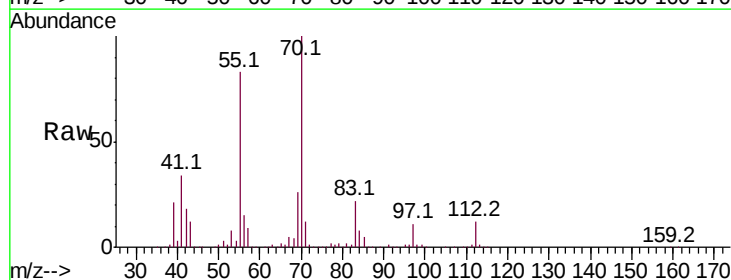
Tgt Ion: 83 Resp: 244743

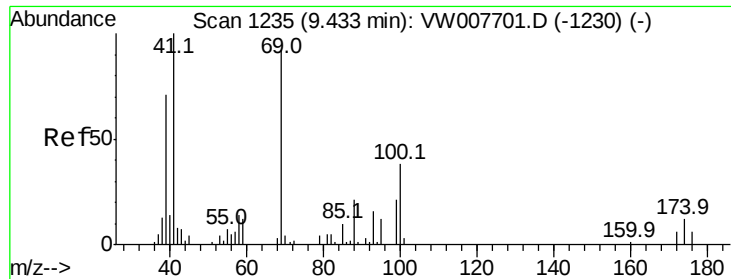
Ion Ratio Lower Upper

83 100

85 23.4 51.4 77.0#

127 0.0 7.5 11.3#

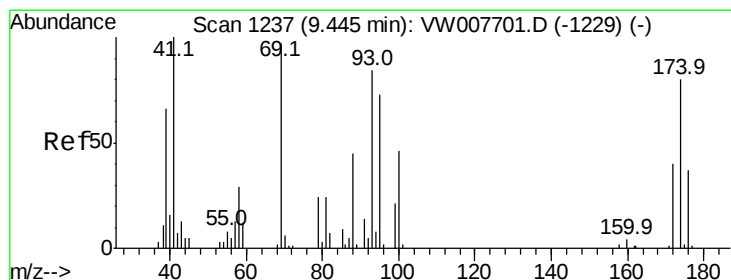
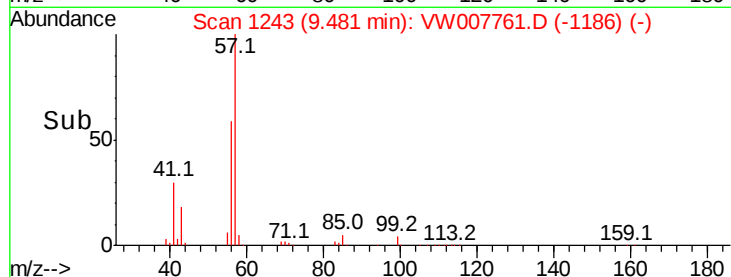
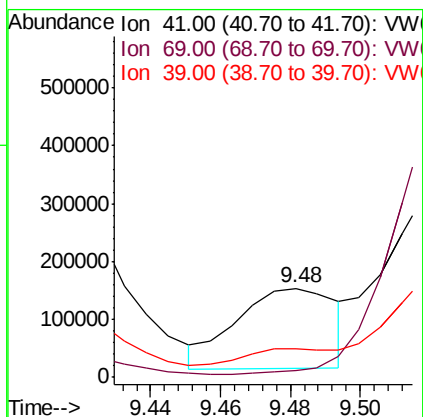
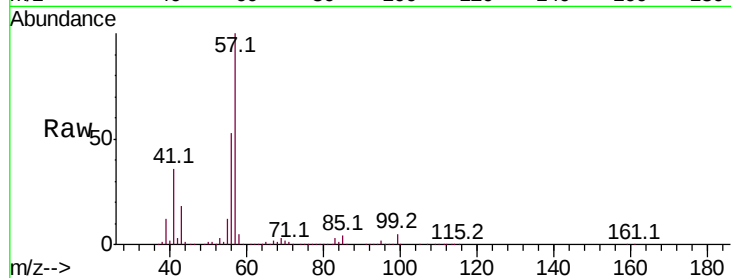




#48  
Methvl methacrylate  
Concen: 678.557 ug/l  
RT: 9.48 min Scan# 1243  
Delta R.T. 0.05 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

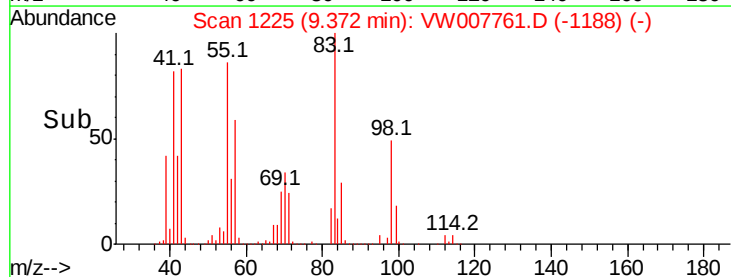
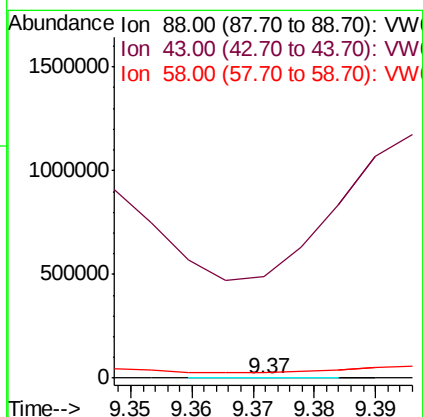
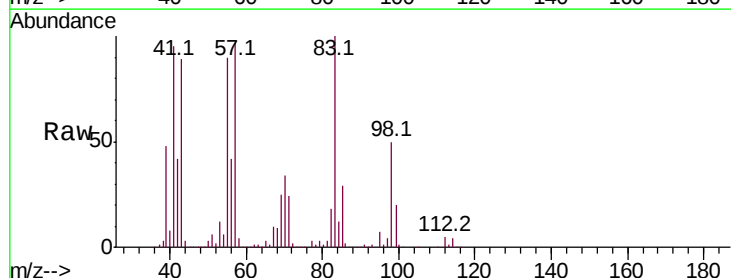
Instrument :  
MSVOA\_W  
ClientSampled :

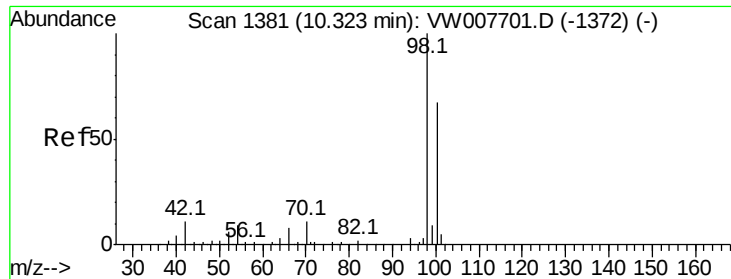
Tot Ion: 41 Resp: 273411  
Ion Ratio Lower Upper  
41 100  
69 0.0 74.2 111.2#  
39 0.0 53.9 80.9#



#49  
1,4-Dioxane  
Concen: 3.113 ug/l  
RT: 9.37 min Scan# 1225  
Delta R.T. -0.07 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

Tgt Ion: 88 Resp: 21  
Ion Ratio Lower Upper  
88 100  
43 0.0 25.6 38.4#  
58 0.0 52.3 78.5#





#50

Toluene-d8

Concen: 95.671 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

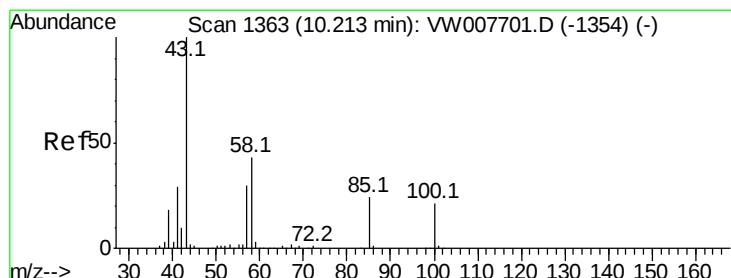
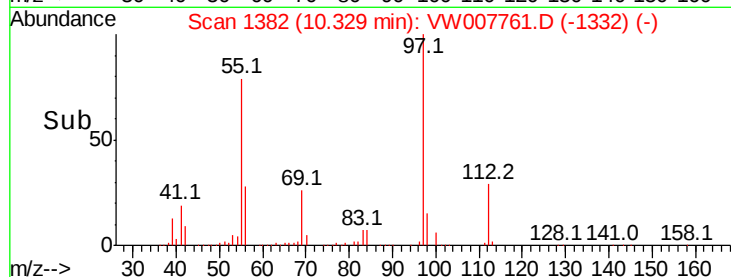
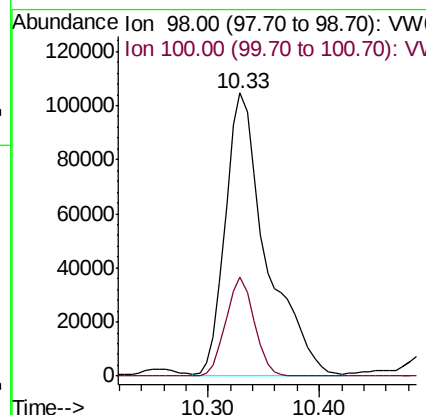
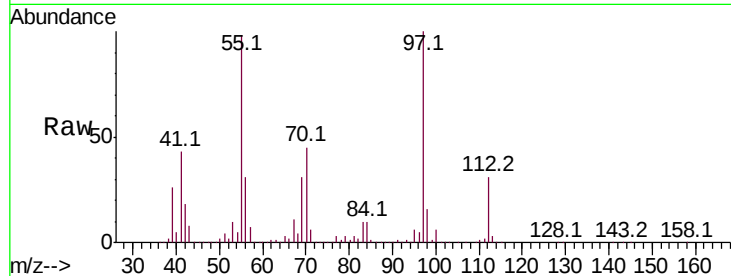
ClientSampled :

Tot Ion: 98 Resp: 266144

Ion Ratio Lower Upper

98 100

100 24.3 52.2 78.2#



#51

4-Methyl-2-Pentanone

Concen: 1413.923 ug/l

RT: 10.26 min Scan# 1371

Delta R.T. 0.05 min

Lab File: VW007761.D

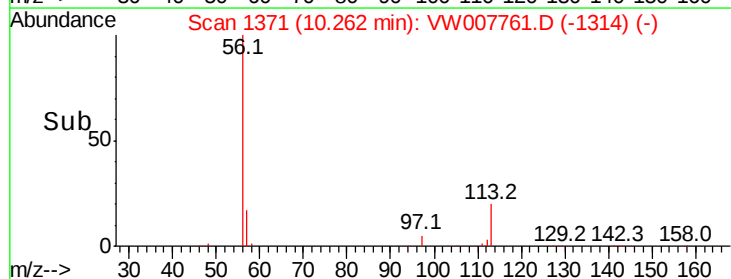
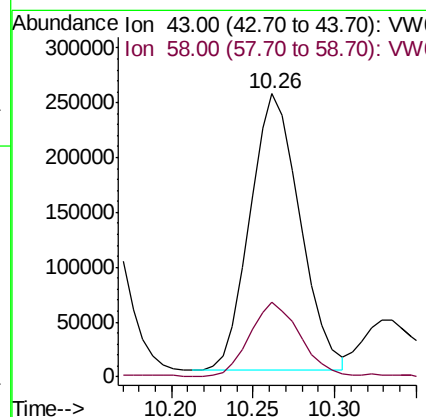
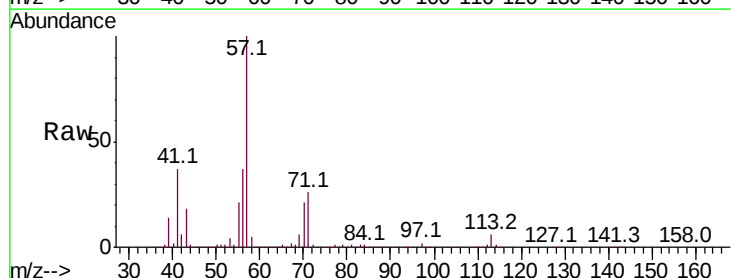
Acq: 20 Dec 2018 21:26

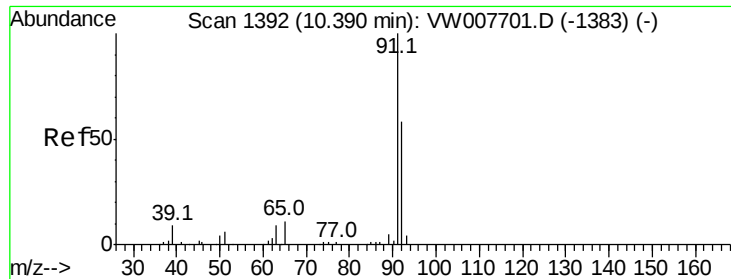
Tgt Ion: 43 Resp: 539402

Ion Ratio Lower Upper

43 100

58 26.5 33.2 49.8#





#52

Toluene

Concen: 45.997 ug/l

RT: 10.40 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

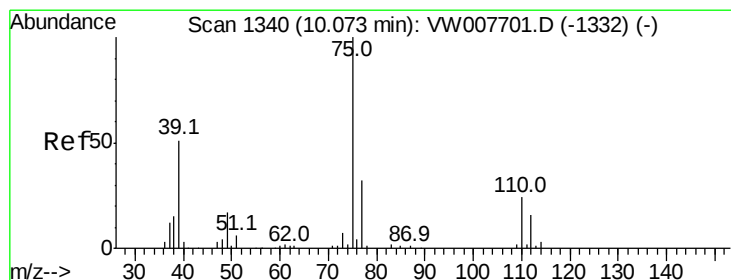
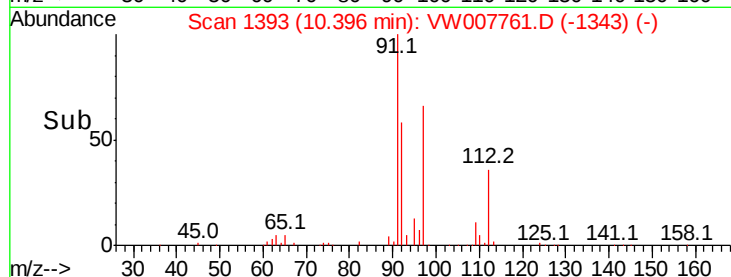
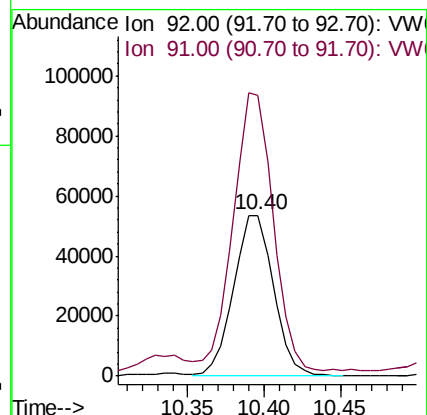
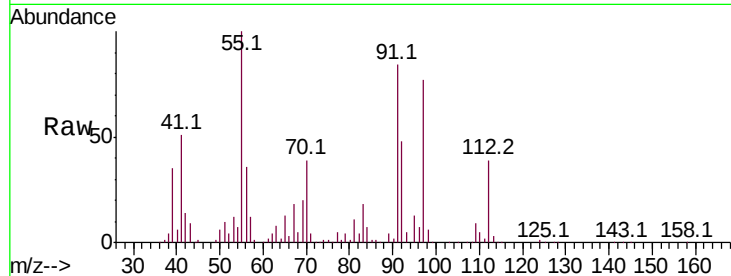
ClientSampleId :

Tot Ion: 92 Resp: 96144

Ion Ratio Lower Upper

92 100

91 174.2 137.0 205.4



#54

cis-1,3-Dichloropropene

Concen: 1.135 ug/l

RT: 10.12 min Scan# 1347

Delta R.T. 0.04 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

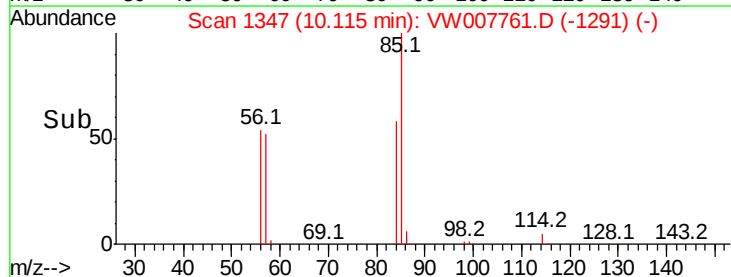
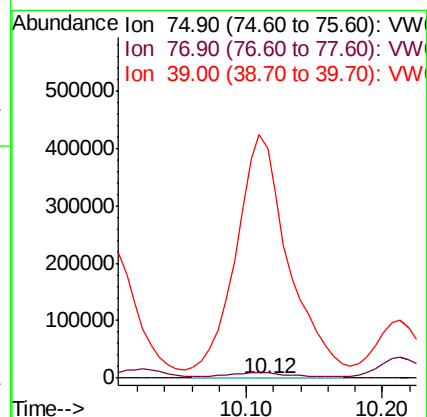
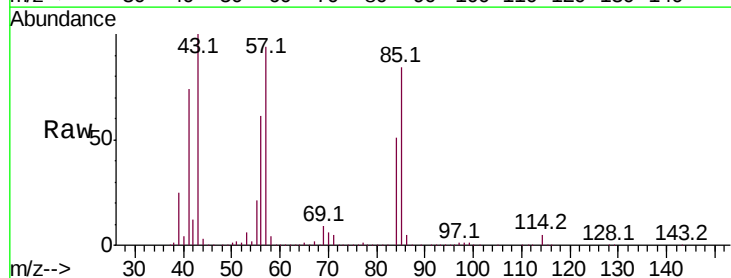
Tgt Ion: 75 Resp: 1395

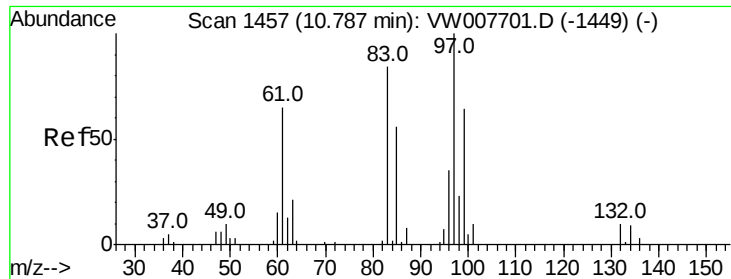
Ion Ratio Lower Upper

75 100

77 1080.9 25.5 38.3#

39 64261.3 41.2 61.8#





#55

1,1,2-Trichloroethane

Concen: 1678.760 ug/l

RT: 10.77 min Scan# 1455

Delta R.T. -0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 97 Resp: 984824

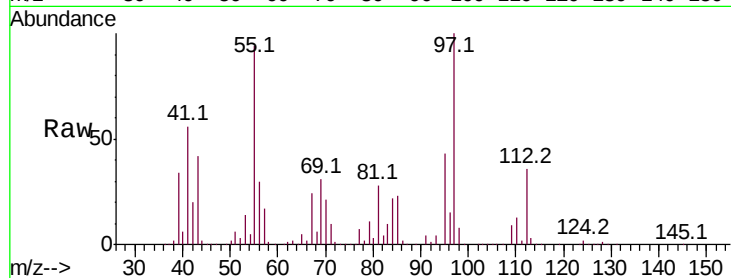
Ion Ratio Lower Upper

97 100

83 8.6 67.5 101.3#

85 22.8 44.8 67.2#

99 0.3 51.0 76.4#

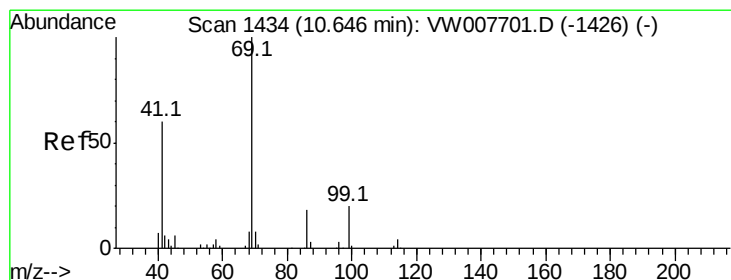
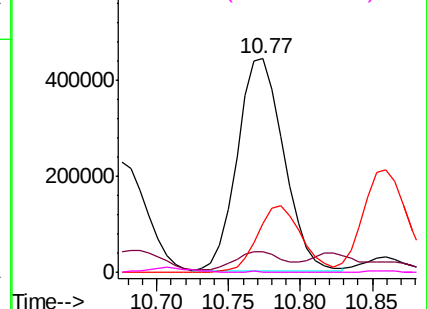
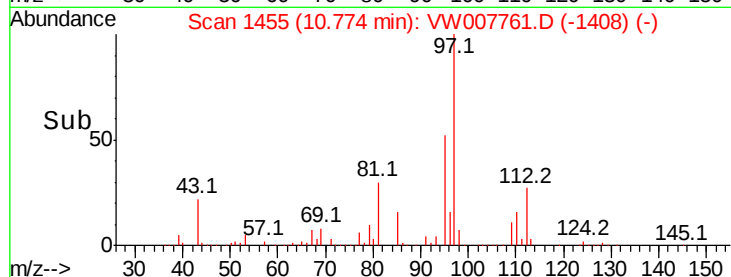


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 252.483 ug/l

RT: 10.69 min Scan# 1441

Delta R.T. 0.04 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

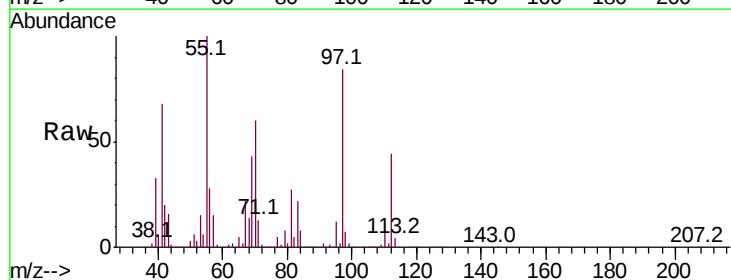
Tgt Ion: 69 Resp: 175000

Ion Ratio Lower Upper

69 100

41 181.6 48.9 73.3#

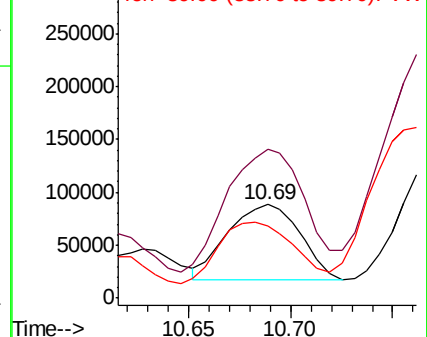
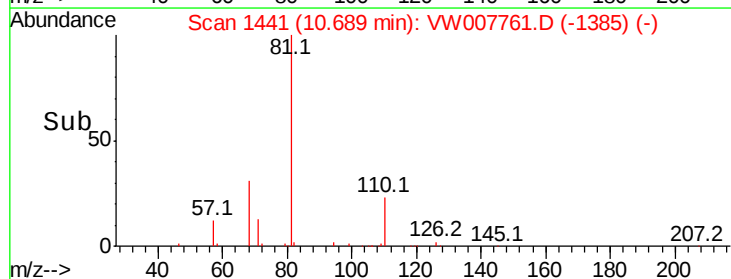
39 86.2 31.3 46.9#

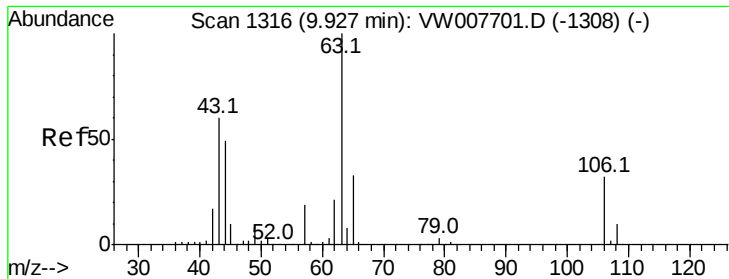


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

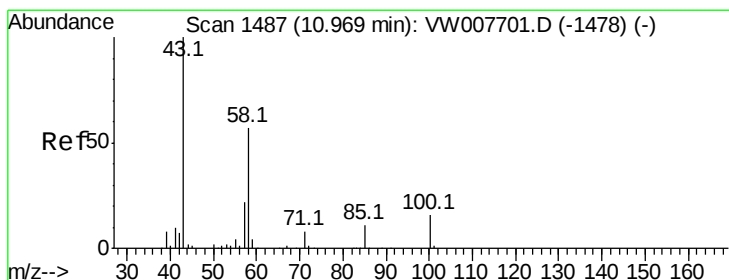
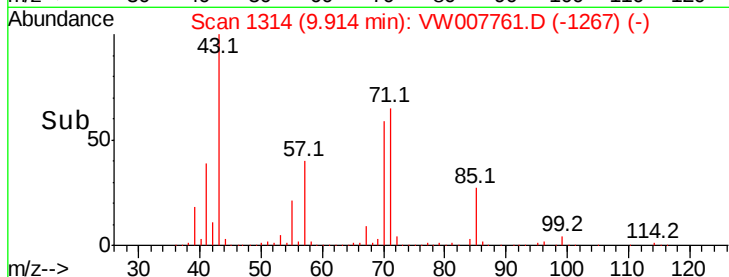
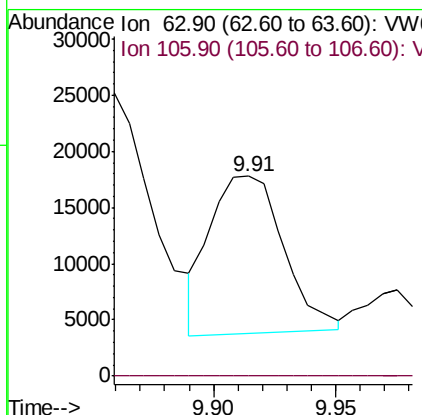
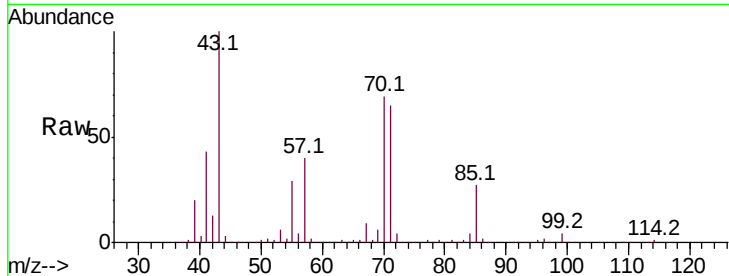




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 92.534 ug/l  
 RT: 9.91 min Scan# 1314  
 Delta R.T. -0.01 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

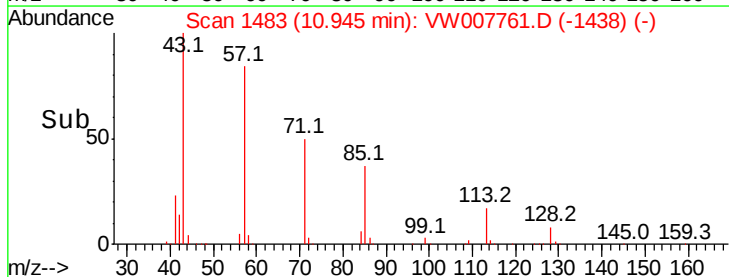
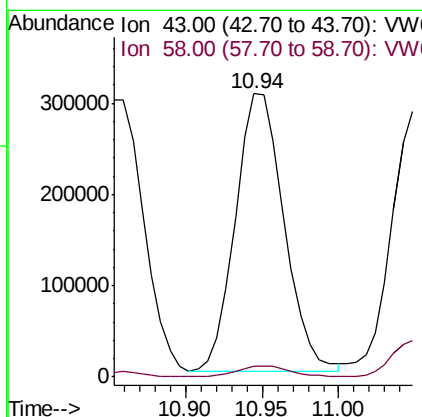
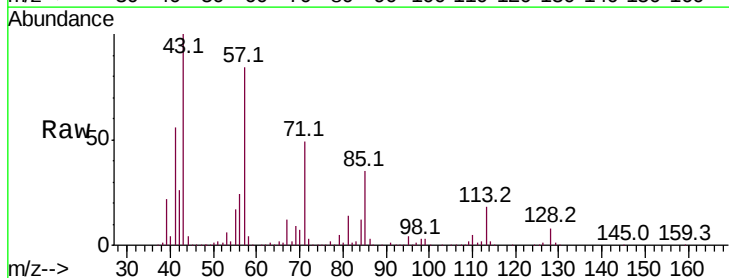
Instrument :  
 MSVOA\_W  
 ClientSampleId :

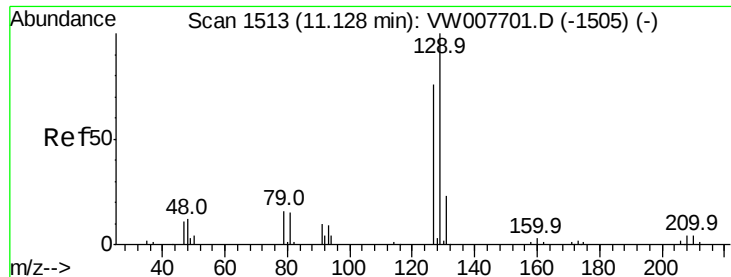
Tot Ion: 63 Resp: 29283  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 25.9 38.9#



#59  
 2-Hexanone  
 Concen: 2492.232 ug/l  
 RT: 10.94 min Scan# 1483  
 Delta R.T. -0.02 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

Tgt Ion: 43 Resp: 668647  
 Ion Ratio Lower Upper  
 43 100  
 58 4.3 27.7 83.1#

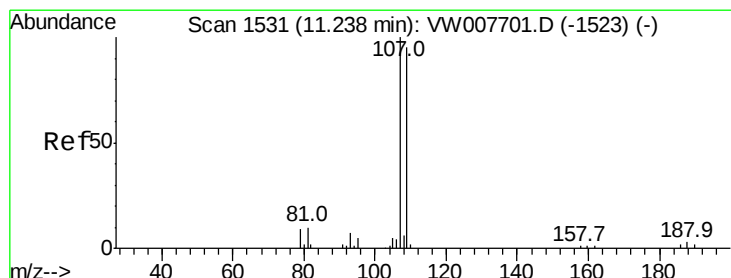
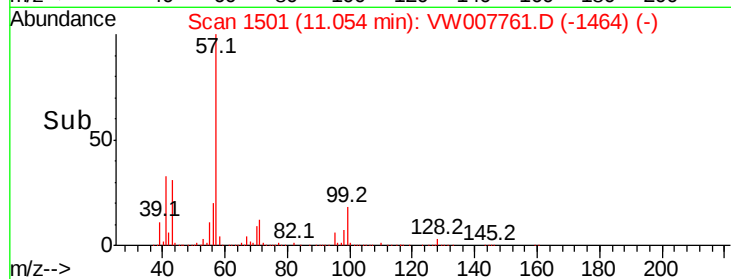
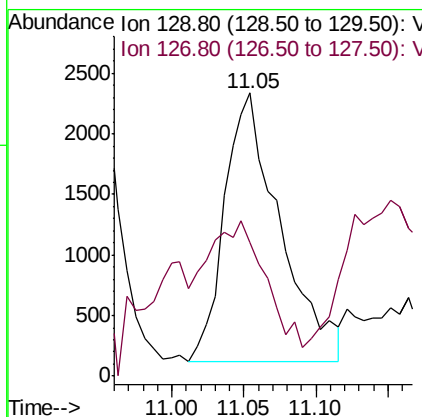
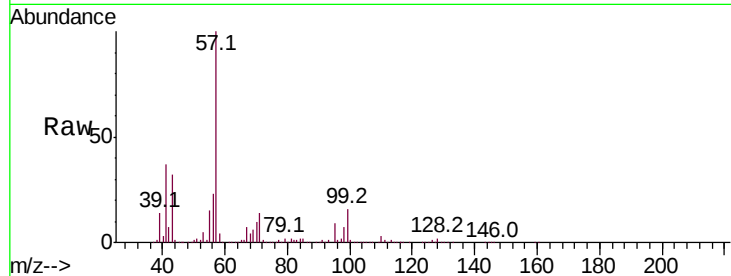




#60  
Dibromochloromethane  
Concen: 7.696 ug/l  
RT: 11.05 min Scan# 1501  
Delta R.T. -0.07 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

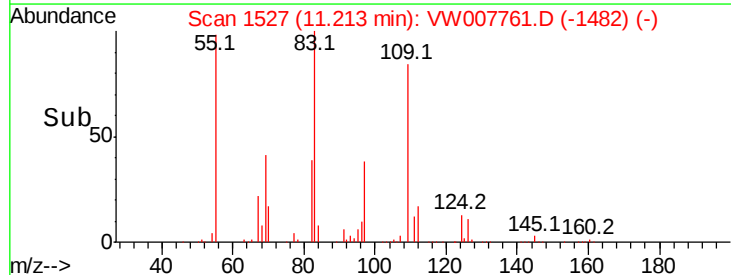
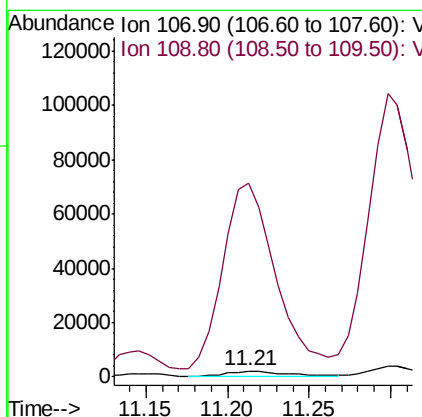
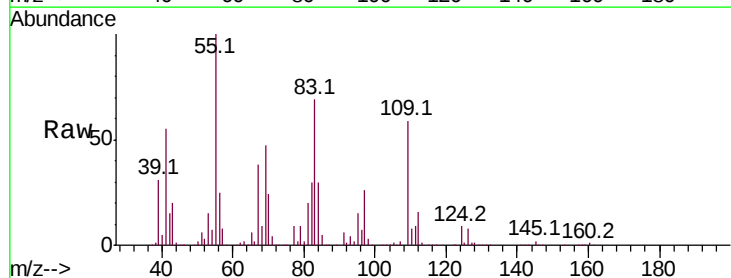
Instrument :  
MSVOA\_W  
ClientSampled :

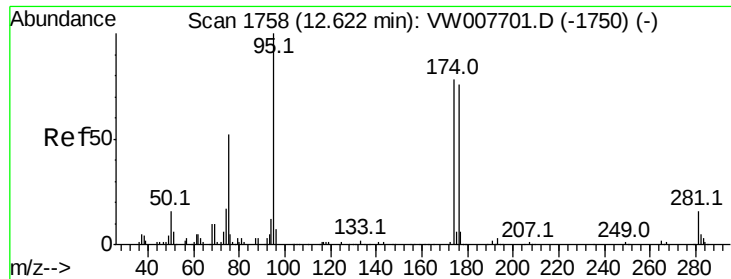
Tot Ion:129 Resp: 5978  
Ion Ratio Lower Upper  
129 100  
127 61.9 38.3 114.9



#61  
1,2-Dibromoethane  
Concen: 7.657 ug/l  
RT: 11.21 min Scan# 1527  
Delta R.T. -0.02 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

Tgt Ion:107 Resp: 4549  
Ion Ratio Lower Upper  
107 100  
109 3350.4 75.4 113.0#

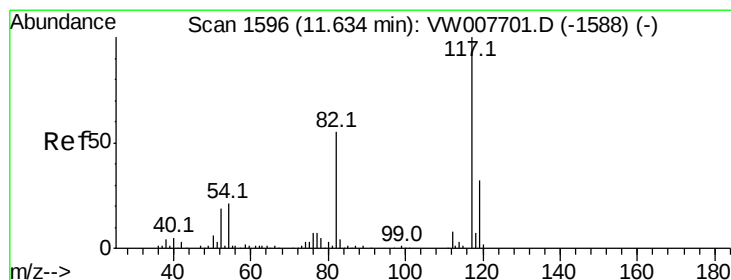
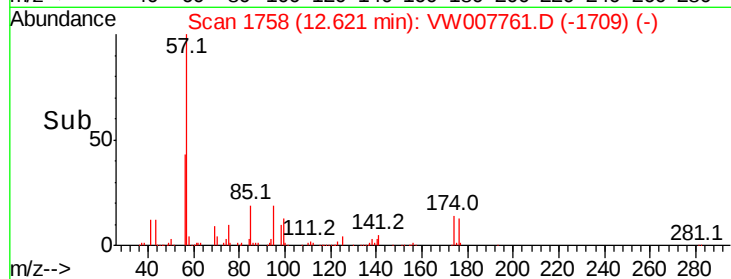
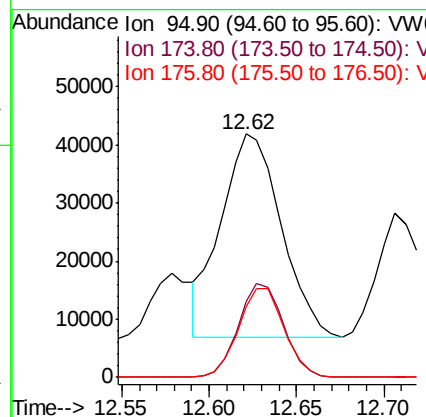
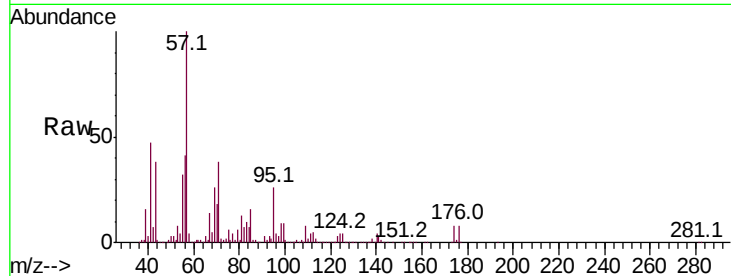




#62  
4-Bromofluorobenzene  
Concen: 78.437 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.00 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

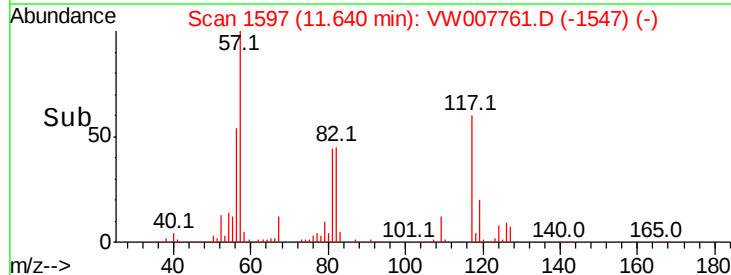
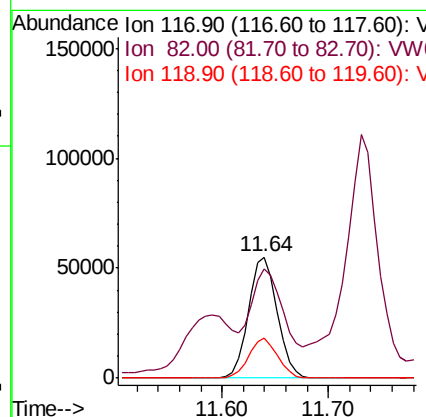
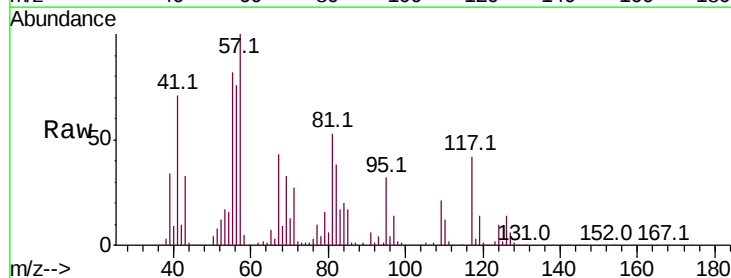
Instrument :  
MSVOA\_W  
ClientSampleId :

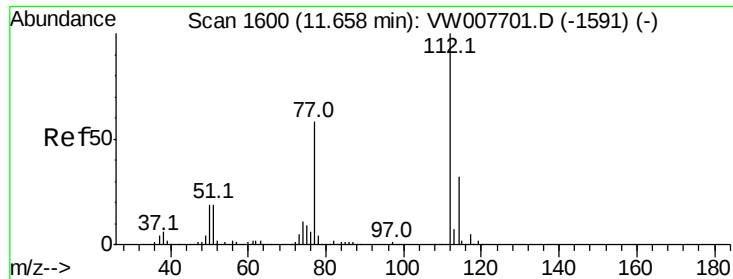
| Tot Ion   | 95    | Resp  | 84296 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 34.6  | 0.0   | 152.2 |
| 176       | 33.1  | 0.0   | 146.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1597  
Delta R.T. 0.01 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

| Tgt Ion   | 117   | Resp  | 104318 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 49.2  | 44.3  | 66.5   |
| 119       | 32.9  | 25.7  | 38.5   |

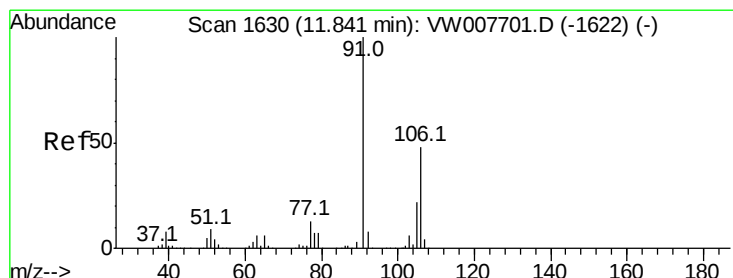
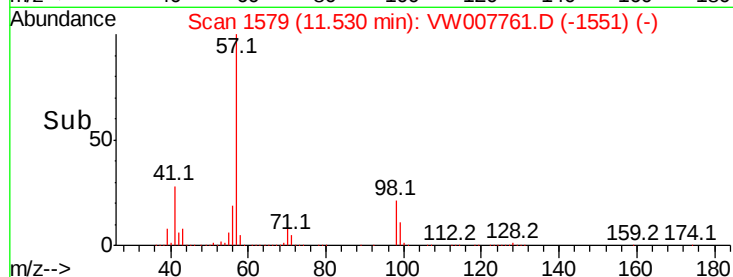
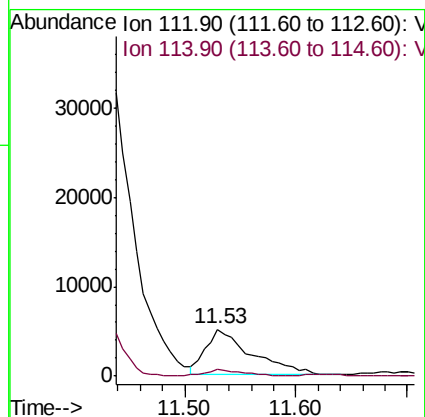
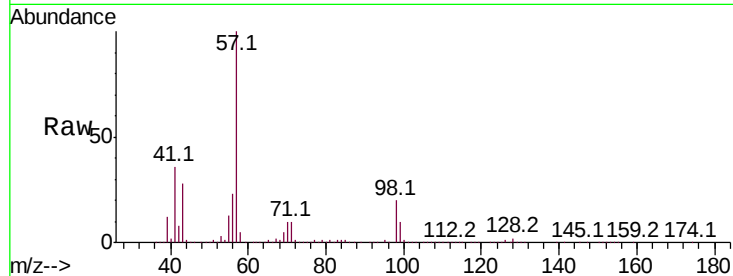




#65  
Chlorobenzene  
Concen: 6.513 ug/l  
RT: 11.53 min Scan# 1579  
Delta R.T. -0.13 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

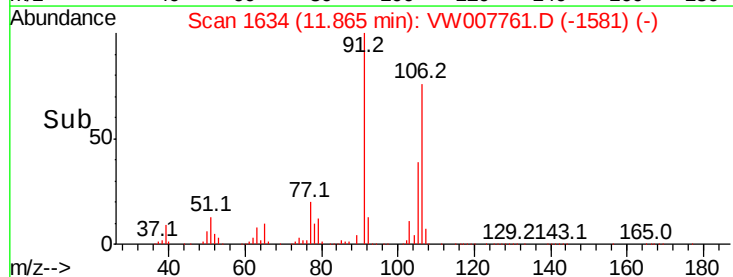
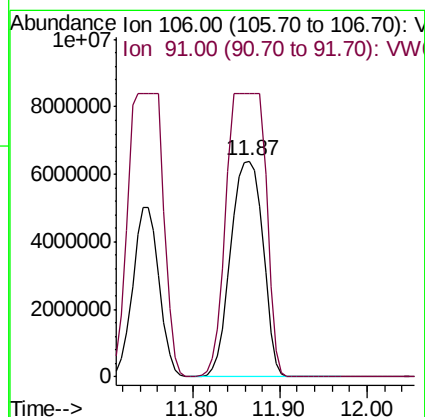
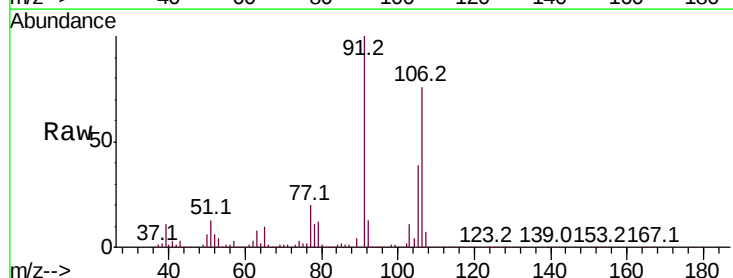
Instrument :  
MSVOA\_W  
ClientSampleId :

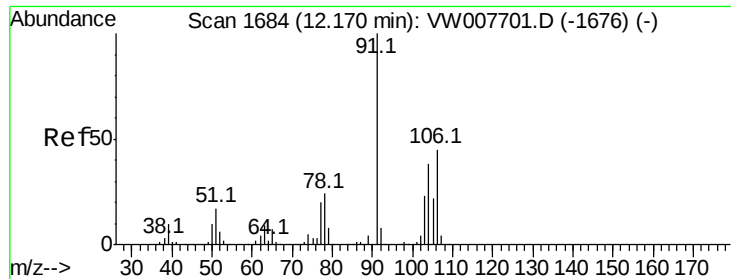
Tot Ion:112 Resp: 14706  
Ion Ratio Lower Upper  
112 100  
114 11.6 25.2 37.8#



#68  
m/p-Xylenes  
Concen: 10913.597 ug/l  
RT: 11.87 min Scan# 1634  
Delta R.T. 0.02 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

Tgt Ion:106 Resp:16402964  
Ion Ratio Lower Upper  
106 100  
91 0.0 165.2 247.8#

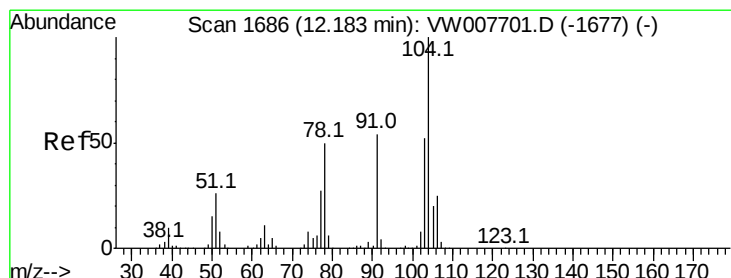
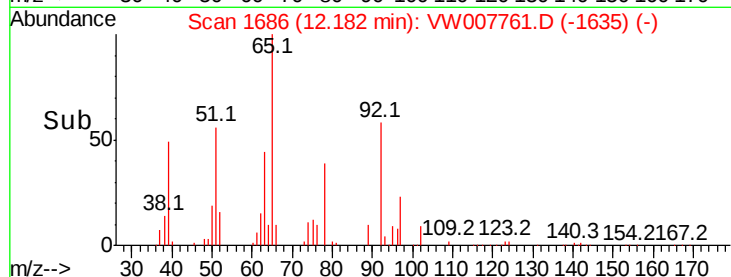
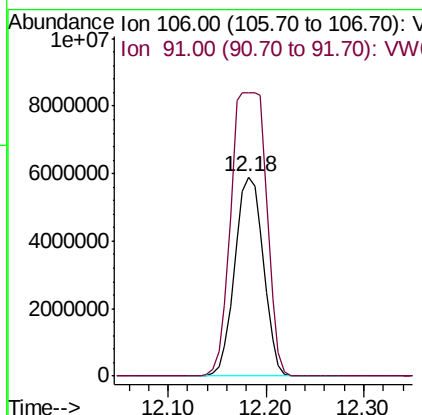
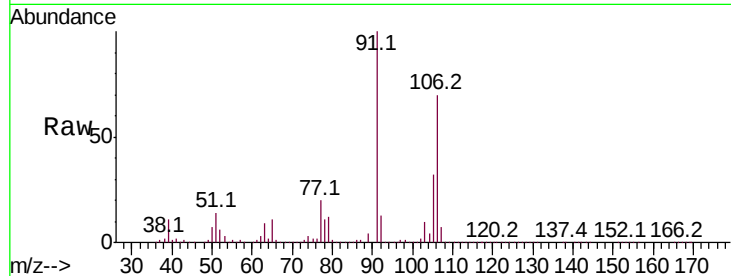




#69  
o-Xylene  
Concen: 8474.497 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.01 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

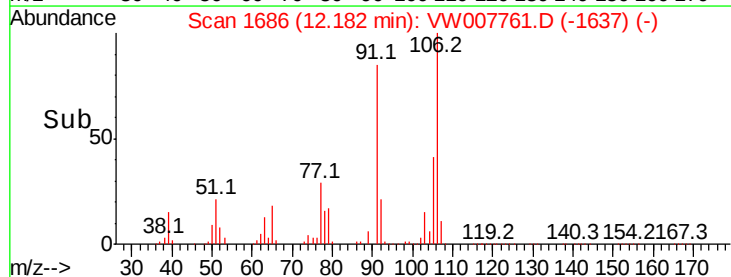
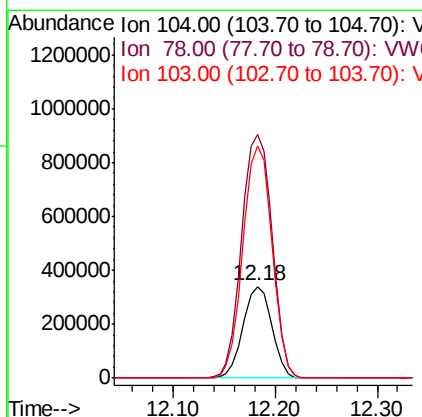
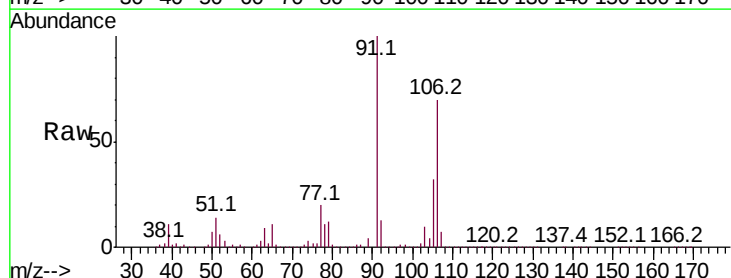
Instrument :  
MSVOA\_W  
ClientSampled :

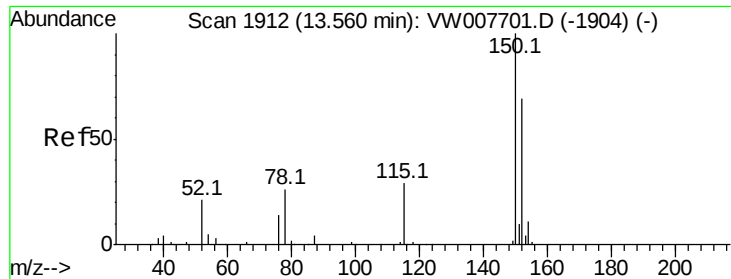
Tot Ion:106 Resp:11939337  
Ion Ratio Lower Upper  
106 100  
91 177.1 110.5 331.4



#70  
Styrene  
Concen: 288.878 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

Tgt Ion:104 Resp: 669005  
Ion Ratio Lower Upper  
104 100  
78 281.9 43.4 65.0#  
103 257.6 44.5 66.7#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1914

Delta R.T. 0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

ClientSampleId :

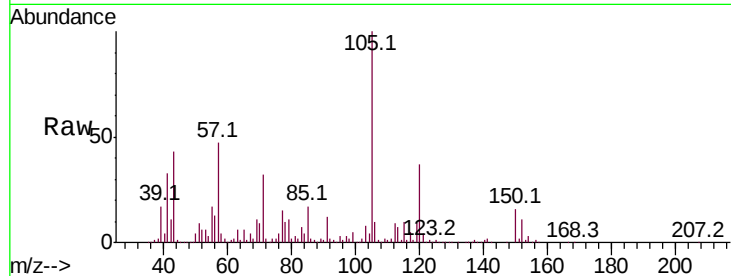
Tot Ion:152 Resp: 44007

Ion Ratio Lower Upper

152 100

115 0.0 31.8 95.4#

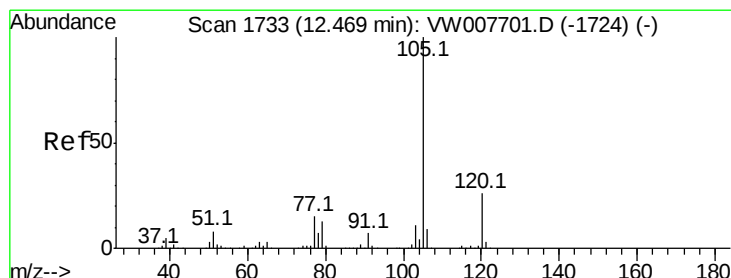
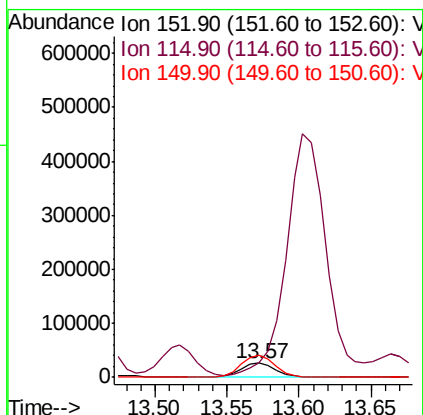
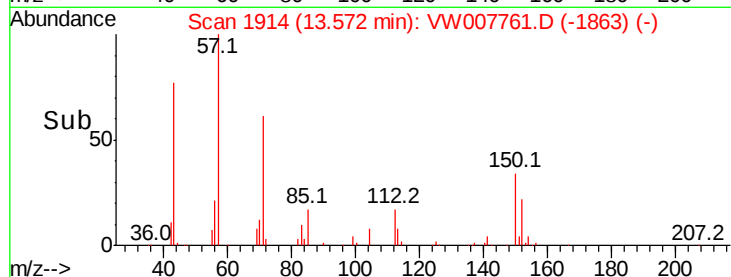
150 149.7 0.0 350.8



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



#73

Isopropylbenzene

Concen: 3839.540 ug/l

RT: 12.47 min Scan# 1734

Delta R.T. 0.01 min

Lab File: VW007761.D

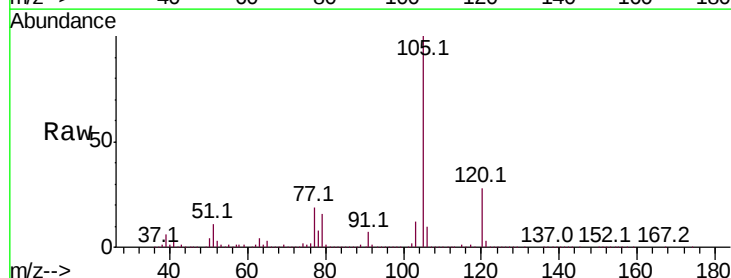
Acq: 20 Dec 2018 21:26

Tgt Ion:105 Resp:12771996

Ion Ratio Lower Upper

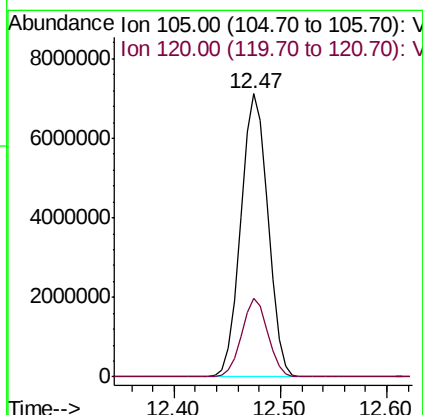
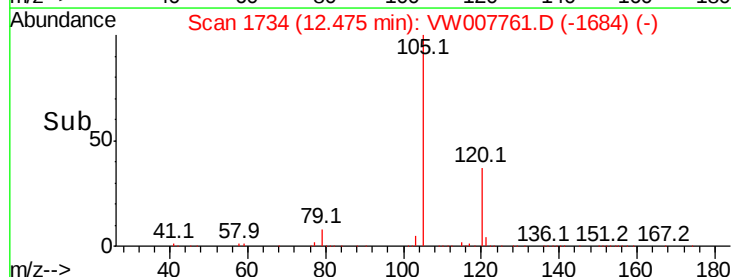
105 100

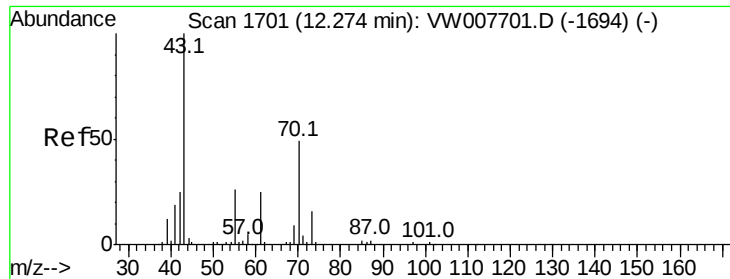
120 26.6 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 453.095 ug/l

RT: 12.26 min Scan# 1699

Delta R.T. -0.01 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 43 Resp: 261068

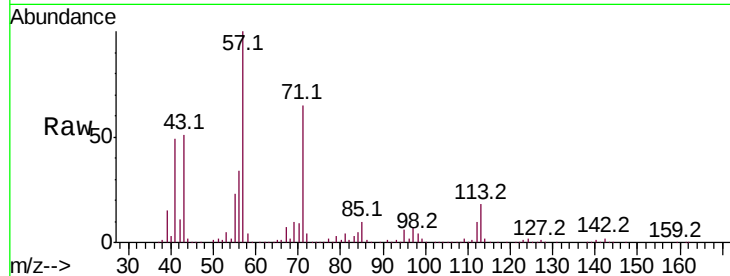
Ion Ratio Lower Upper

43 100

70 21.8 37.6 56.4#

55 19.2 21.7 32.5#

61 0.0 20.1 30.1#

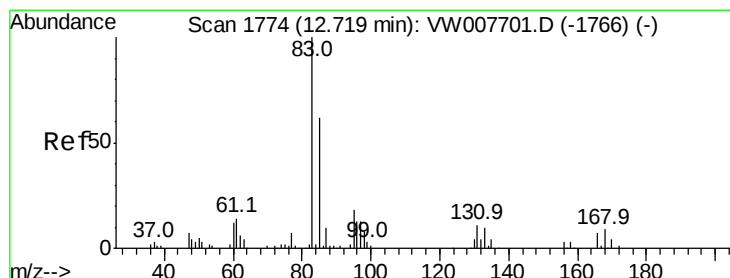
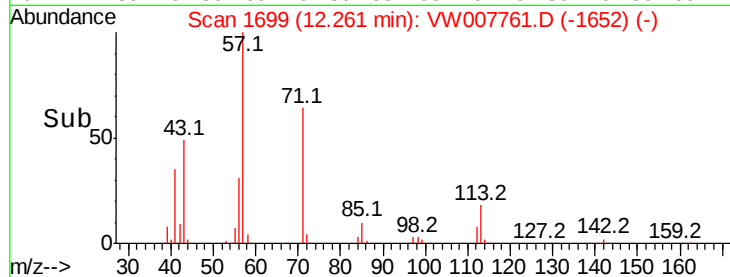
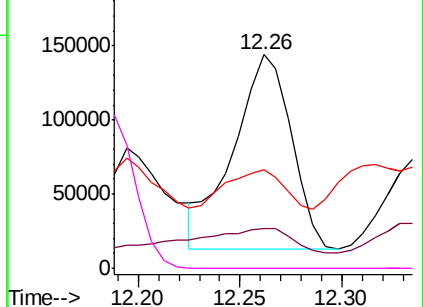


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 81.075 ug/l

RT: 12.68 min Scan# 1767

Delta R.T. -0.04 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

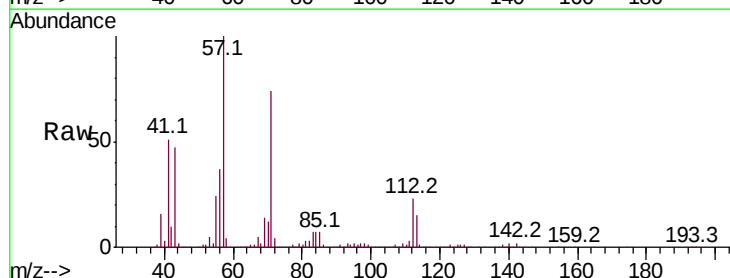
Tgt Ion: 83 Resp: 40436

Ion Ratio Lower Upper

83 100

131 0.3 6.3 18.8#

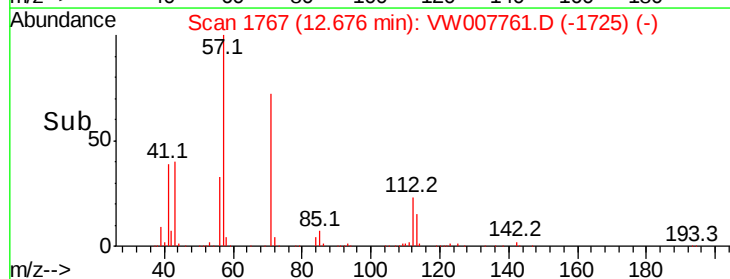
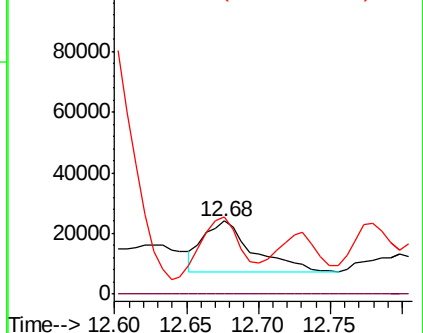
85 96.6 32.3 96.8

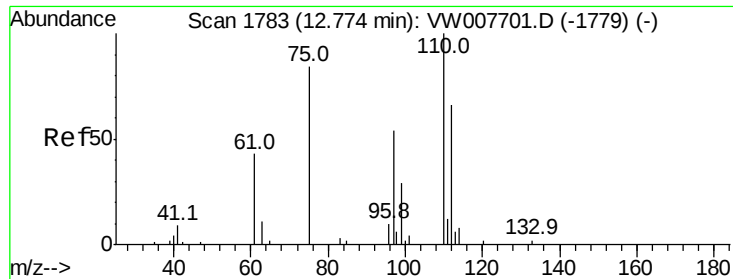


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

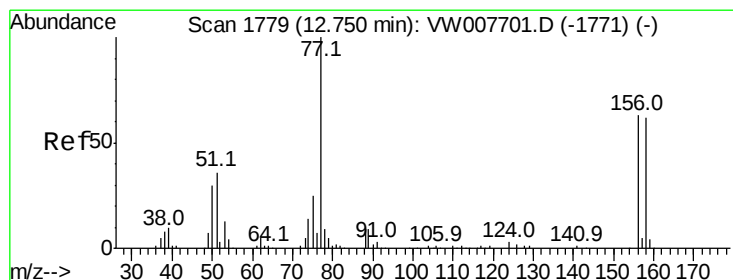
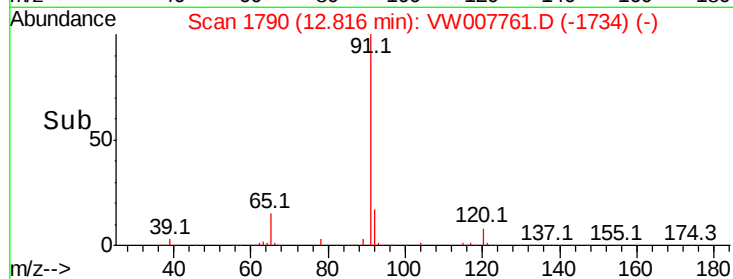
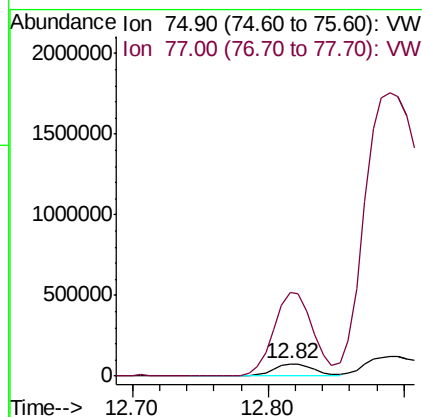
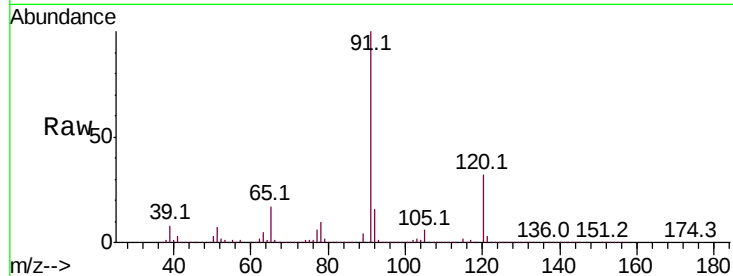




#76  
 1,2,3-Trichloropropane  
 Concen: 470.972 ug/l  
 RT: 12.82 min Scan# 1790  
 Delta R.T. 0.04 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

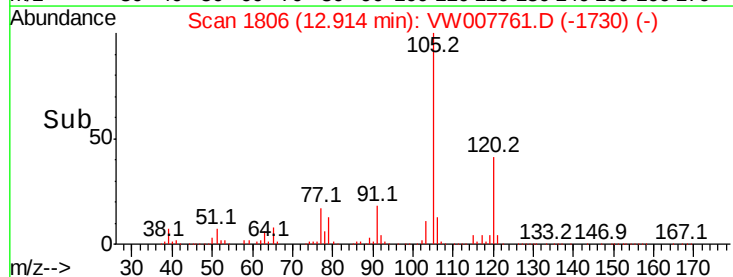
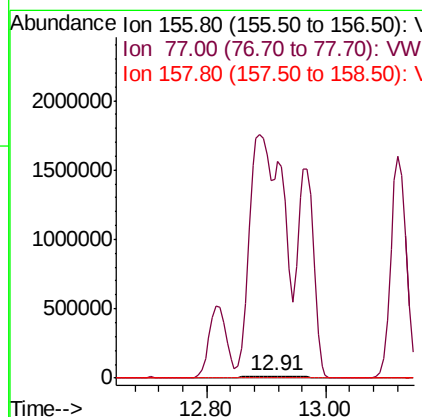
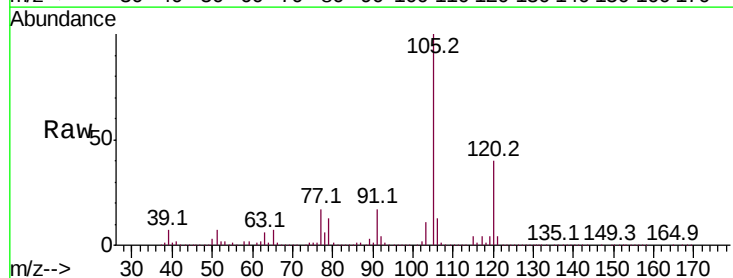
Instrument :  
 MSVOA\_W  
 ClientSampleId :

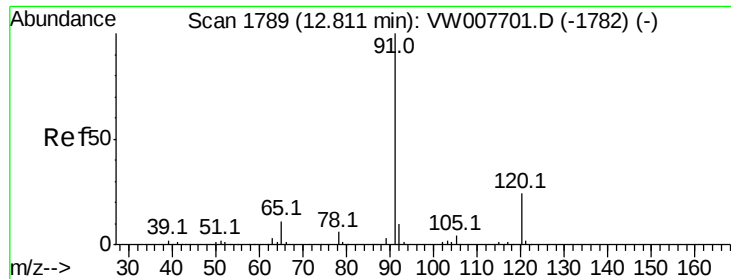
Tot Ion: 75 Resp: 160193  
 Ion Ratio Lower Upper  
 75 100  
 77 639.6 0.0 0.0#



#77  
 Bromobenzene  
 Concen: 133.221 ug/l  
 RT: 12.91 min Scan# 1806  
 Delta R.T. 0.16 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

Tgt Ion: 156 Resp: 101559  
 Ion Ratio Lower Upper  
 156 100  
 77 0.0 87.4 262.1#  
 158 0.4 48.4 145.0#





#78

n-propylbenzene

Concen: 5117.062 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

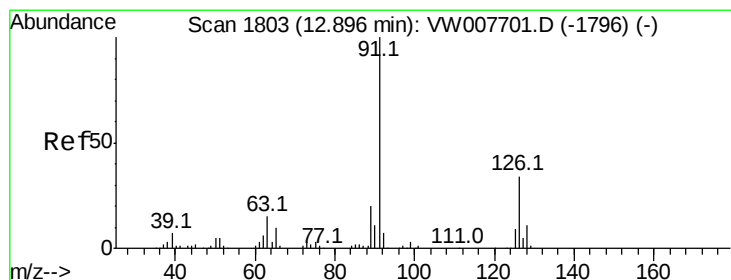
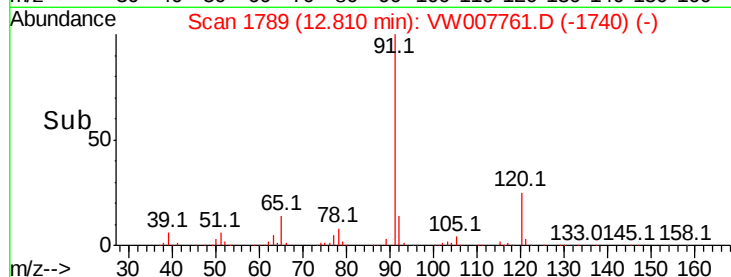
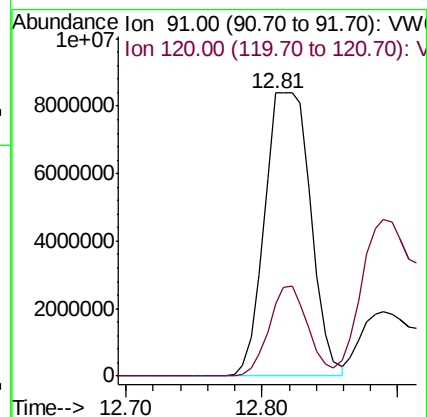
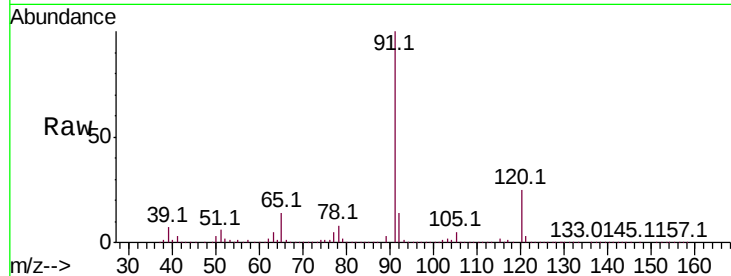
ClientSampled :

Tot Ion: 91 Resp:19814227

Ion Ratio Lower Upper

91 100

120 26.9 11.9 35.7



#79

2-Chlorotoluene

Concen: 1738.110 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.01 min

Lab File: VW007761.D

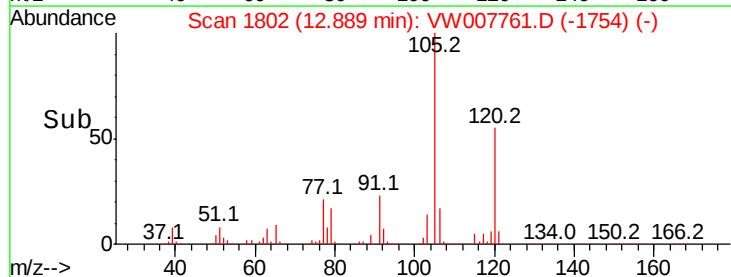
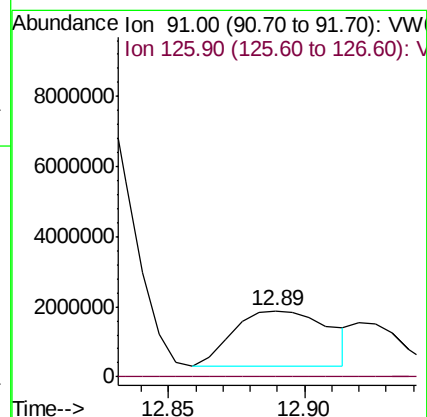
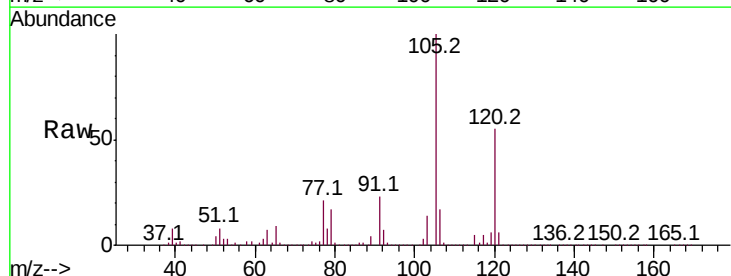
Acq: 20 Dec 2018 21:26

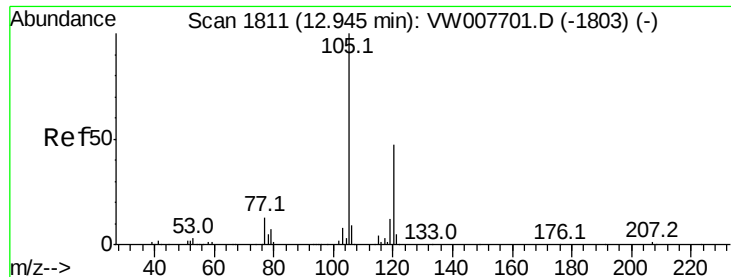
Tgt Ion: 91 Resp: 3920716

Ion Ratio Lower Upper

91 100

126 0.2 17.0 51.0#

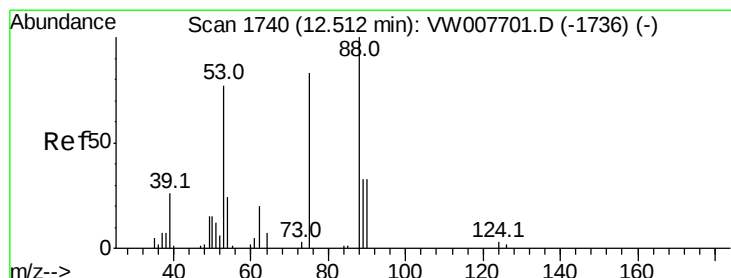
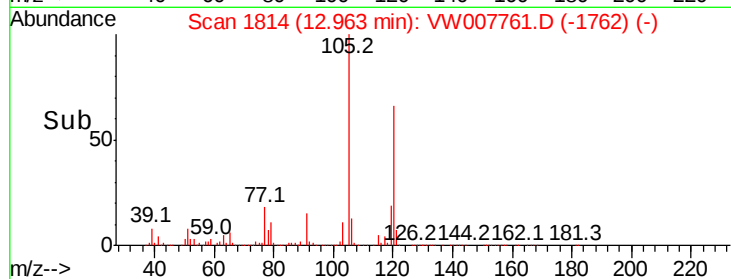
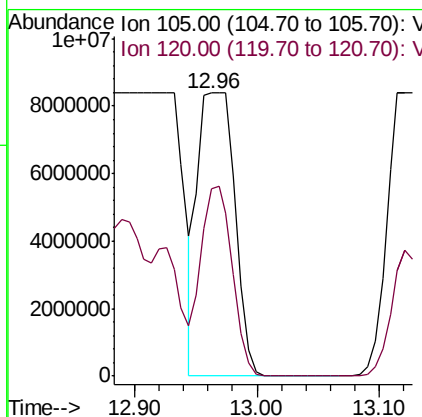
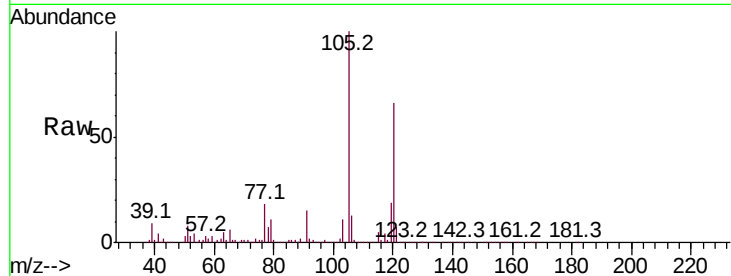




#80  
 1,3,5-Trimethylbenzene  
 Concen: 6170.676 ug/l  
 RT: 12.96 min Scan# 1814  
 Delta R.T. 0.02 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

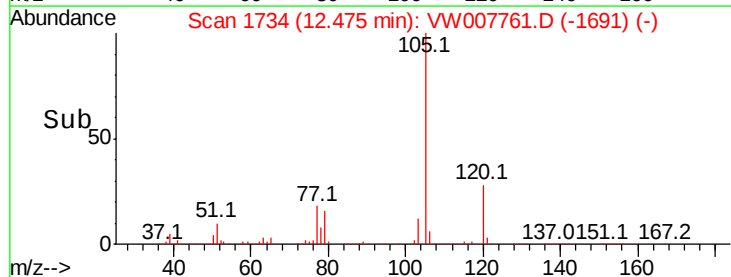
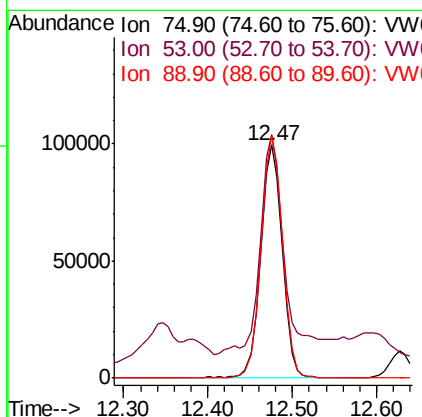
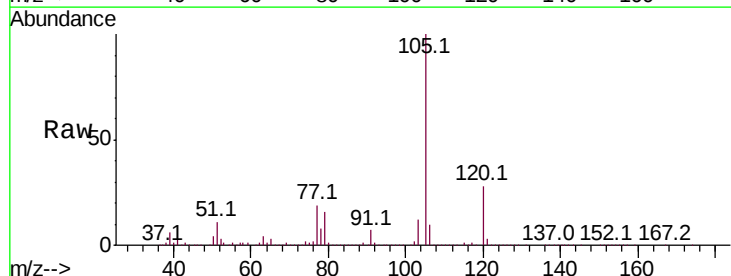
Instrument :  
 MSVOA\_W  
 ClientSampled :

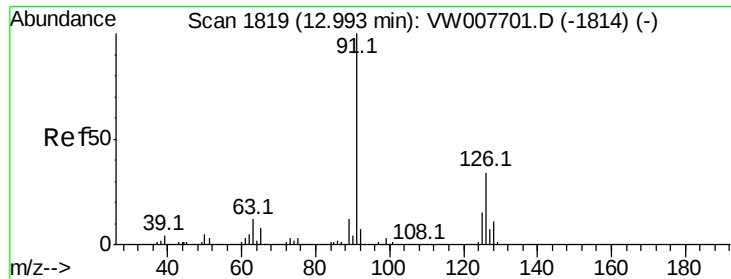
Tot Ion:105 Resp:17705475  
 Ion Ratio Lower Upper  
 105 100  
 120 56.9 23.6 70.8



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 1080.180 ug/l  
 RT: 12.47 min Scan# 1734  
 Delta R.T. -0.04 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

Tgt Ion: 75 Resp: 175032  
 Ion Ratio Lower Upper  
 75 100  
 53 107.8 80.2 120.2  
 89 104.0 39.2 58.8#

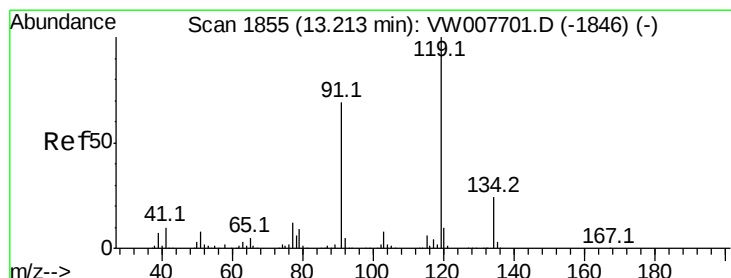
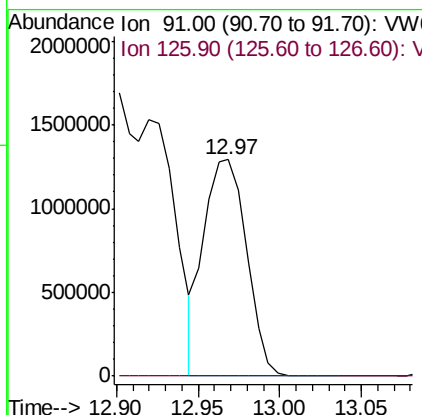
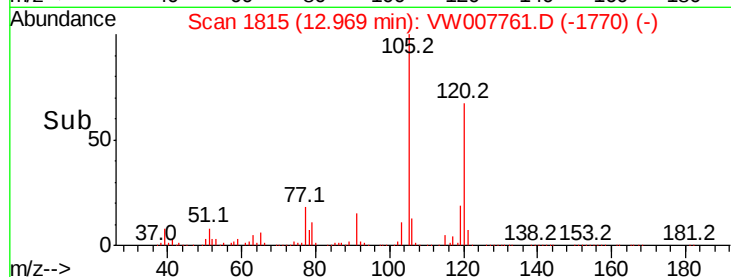
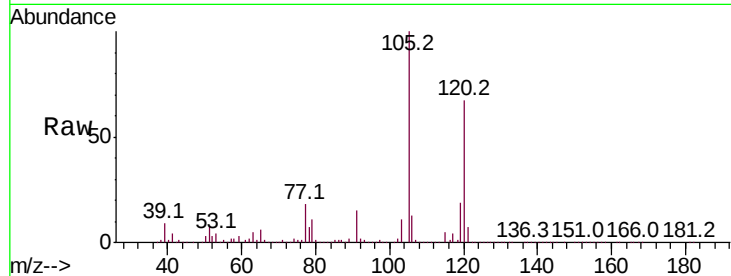




#82  
4-Chlorotoluene  
Concen: 978.053 ug/l  
RT: 12.97 min Scan# 1815  
Delta R.T. -0.02 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

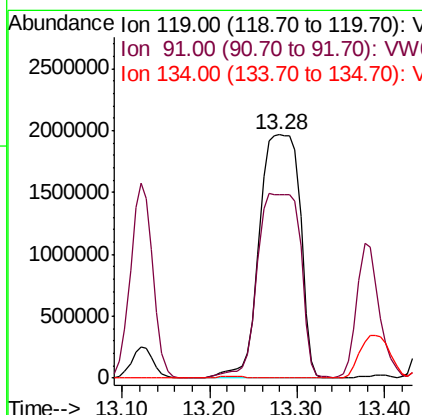
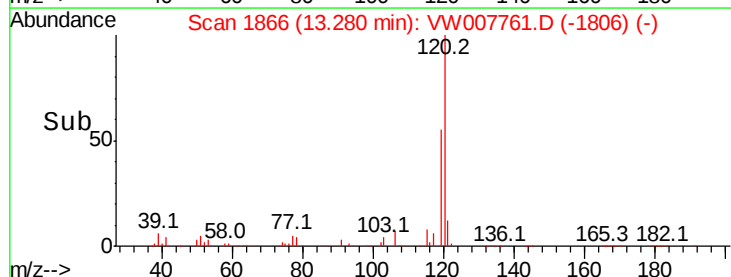
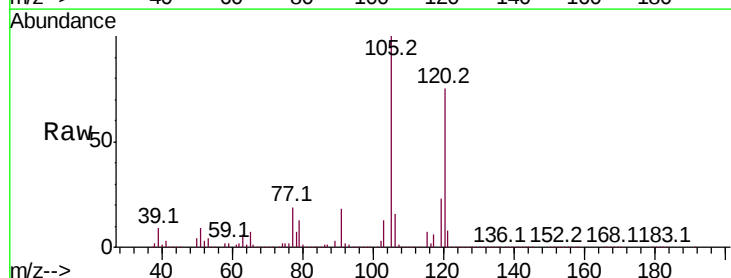
Instrument :  
MSVOA\_W  
ClientSampleId :

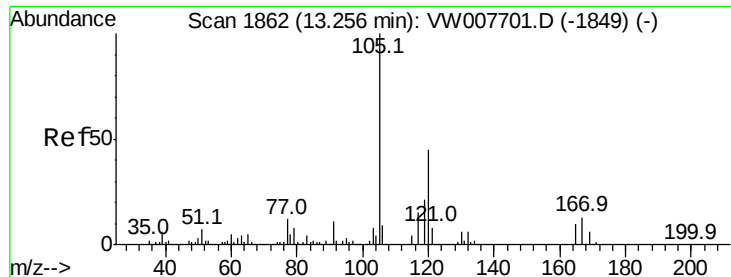
Tot Ion: 91 Resp: 2349116  
Ion Ratio Lower Upper  
91 100  
126 0.1 16.5 49.5#



#83  
tert-Butylbenzene  
Concen: 2504.681 ug/l  
RT: 13.28 min Scan# 1866  
Delta R.T. 0.07 min  
Lab File: VW007761.D  
Acq: 20 Dec 2018 21:26

Tgt Ion: 119 Resp: 6305744  
Ion Ratio Lower Upper  
119 100  
91 79.6 34.2 102.5  
134 0.0 12.8 38.4#

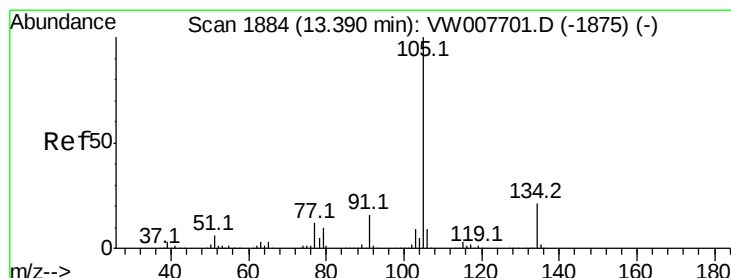
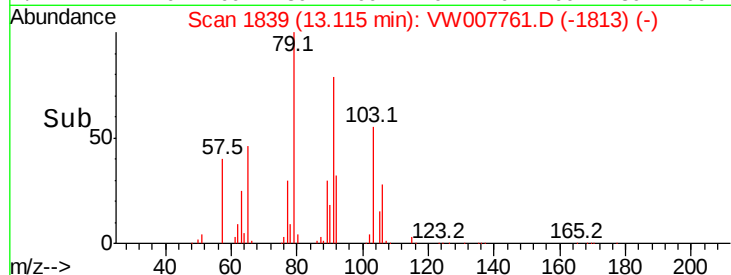
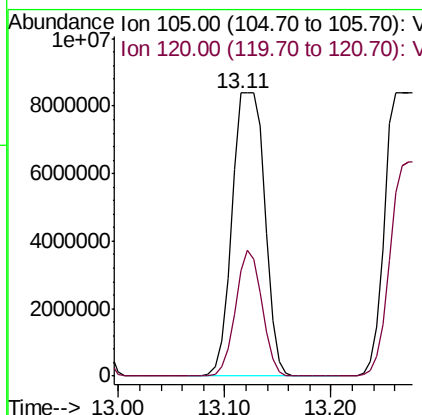
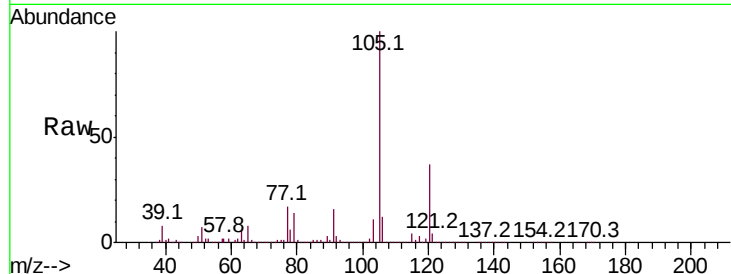




#84  
 1,2,4-Trimethylbenzene  
 Concen: 6231.602 ug/l  
 RT: 13.11 min Scan# 1839  
 Delta R.T. -0.14 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

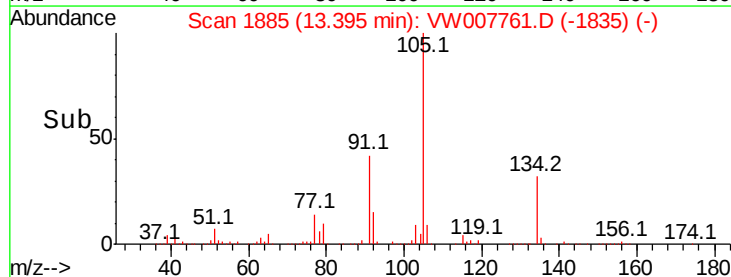
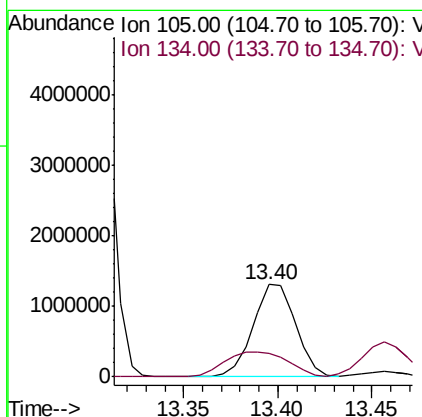
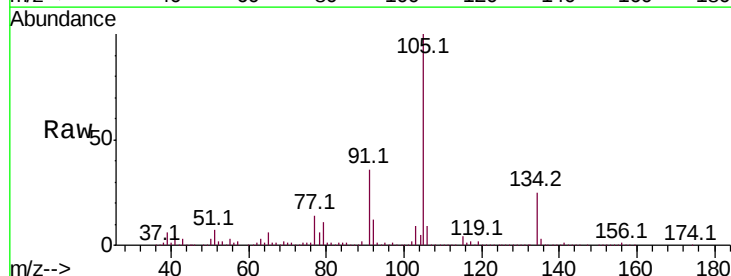
Instrument :  
 MSVOA\_W  
 ClientSampled :

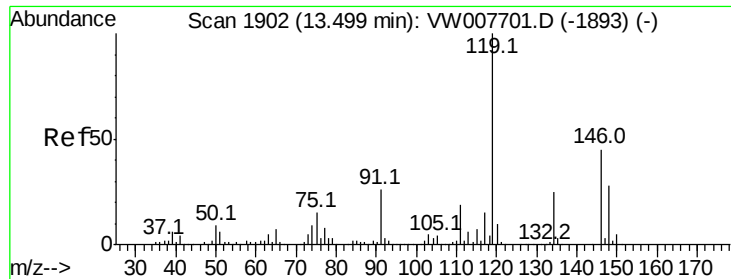
Tot Ion:105 Resp:18042208  
 Ion Ratio Lower Upper  
 105 100  
 120 36.1 22.0 66.0



#85  
 sec-Butylbenzene  
 Concen: 589.940 ug/l  
 RT: 13.40 min Scan# 1885  
 Delta R.T. 0.01 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

Tgt Ion:105 Resp: 2046907  
 Ion Ratio Lower Upper  
 105 100  
 134 40.3 10.2 30.4#

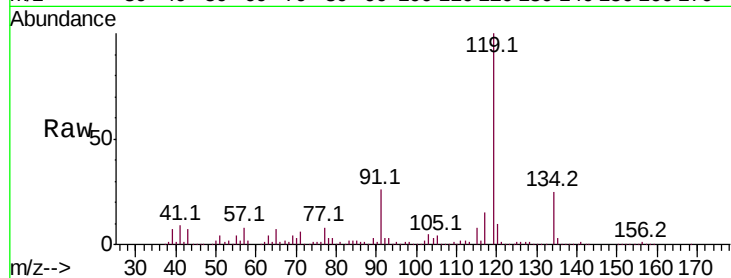




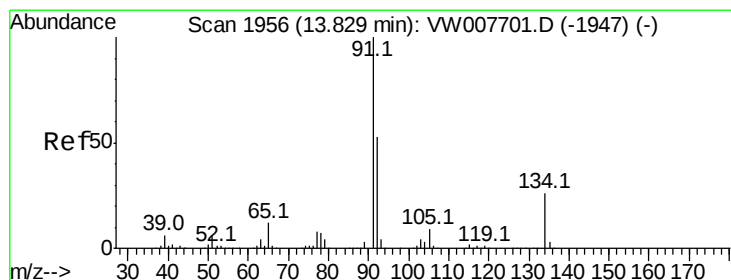
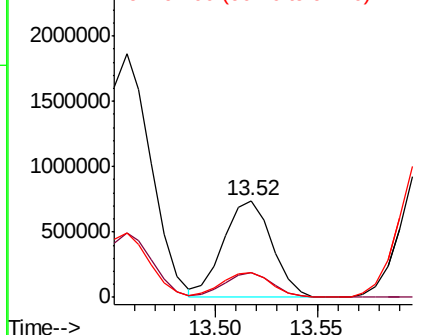
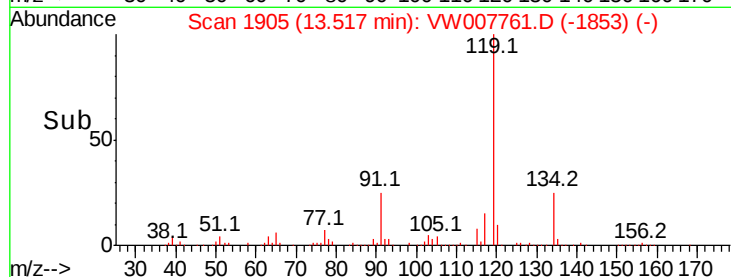
#86  
 p-Isopropyltoluene  
 Concen: 387.465 ug/l  
 RT: 13.52 min Scan# 1905  
 Delta R.T. 0.02 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:119 Resp: 1222466  
 Ion Ratio Lower Upper  
 119 100  
 134 25.2 13.0 39.0  
 91 25.8 12.8 38.4

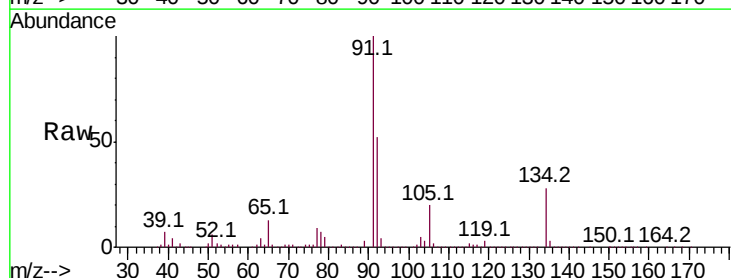


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 134.00 (133.70 to 134.70): V  
 Ion 91.00 (90.70 to 91.70): V

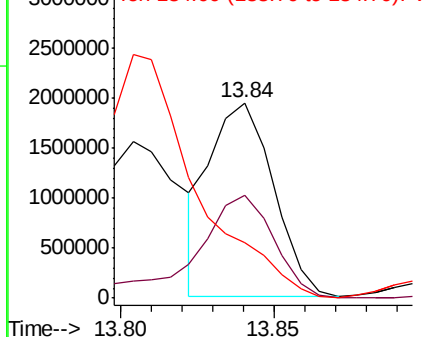
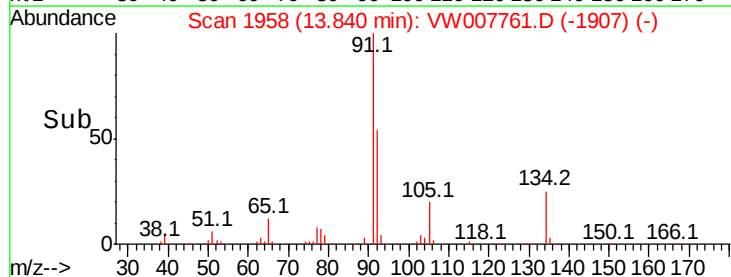


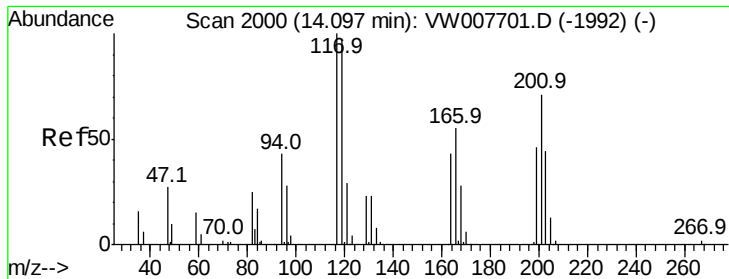
#89  
 n-Butylbenzene  
 Concen: 961.038 ug/l  
 RT: 13.84 min Scan# 1958  
 Delta R.T. 0.01 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

Tgt Ion: 91 Resp: 2780066  
 Ion Ratio Lower Upper  
 91 100  
 92 65.4 26.4 79.2  
 134 0.0 13.7 41.0#



Abundance Ion 91.00 (90.70 to 91.70): VW  
 Ion 92.00 (91.70 to 92.70): VW  
 Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 1965.755 ug/l

RT: 14.11 min Scan# 2003

Delta R.T. 0.02 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

Instrument :

MSVOA\_W

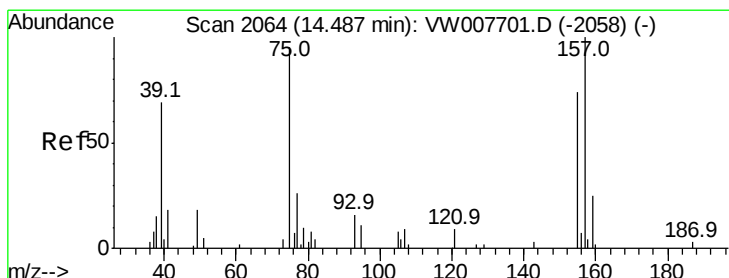
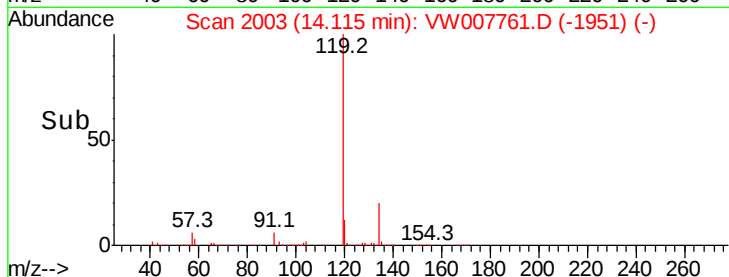
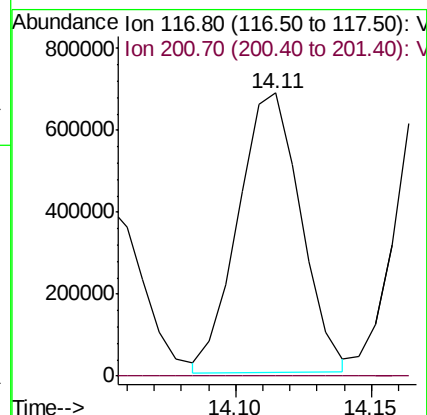
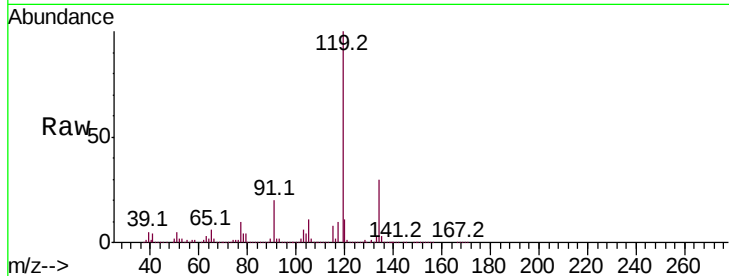
ClientSampled :

Tot Ion:117 Resp: 1088833

Ion Ratio Lower Upper

117 100

201 0.0 36.2 108.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 607.414 ug/l

RT: 14.47 min Scan# 2061

Delta R.T. -0.02 min

Lab File: VW007761.D

Acq: 20 Dec 2018 21:26

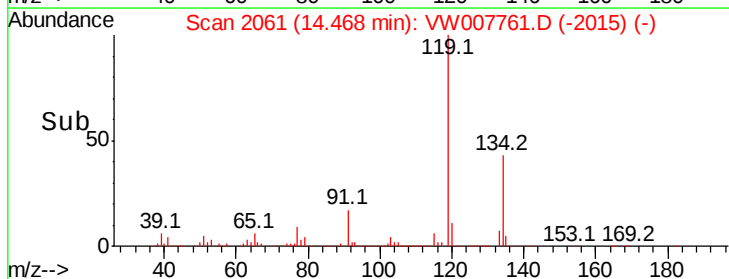
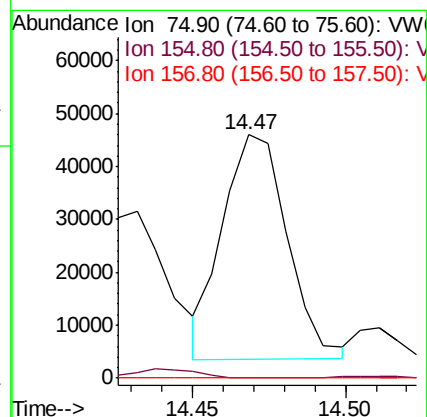
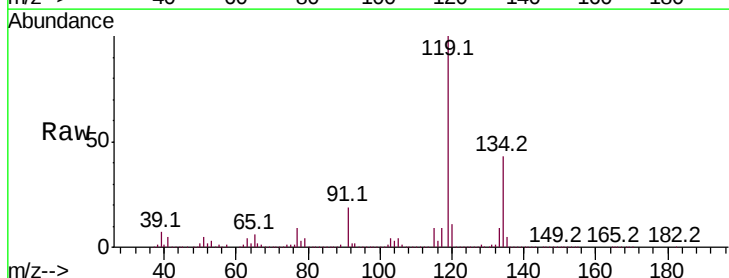
Tgt Ion: 75 Resp: 62214

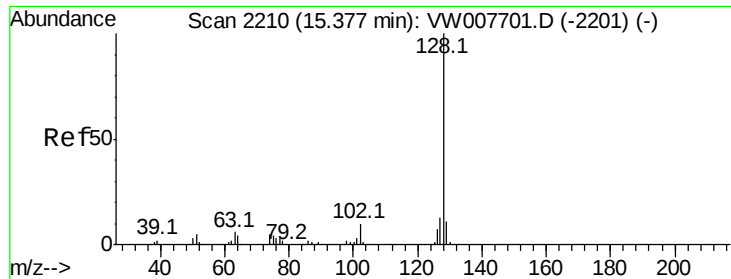
Ion Ratio Lower Upper

75 100

155 0.0 39.4 118.1#

157 0.0 52.0 156.0#

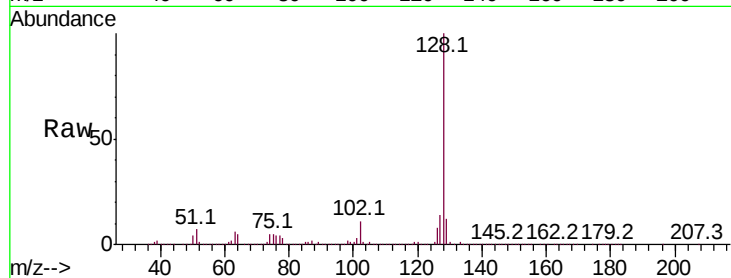




#95  
 Naphthalene  
 Concen: 5038.181 ug/l  
 RT: 15.38 min Scan# 2211  
 Delta R.T. 0.01 min  
 Lab File: VW007761.D  
 Acq: 20 Dec 2018 21:26

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:128 Resp: 8762429  
 Ion Ratio Lower Upper  
 128 100  
 127 14.3 10.7 16.1  
 129 11.4 8.8 13.2



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

