

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062018\  
 Data File : VF059257.D  
 Acq On : 21 Jun 2018 11:07  
 Operator : VA/AP  
 Sample : VF0620SBS02  
 Misc : 5.00µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Jun 21 14:05:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 10:52:00 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.04  | 168  | 250639   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 403097   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 399828   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 253651   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.02   | 65  | 166696   | 54.84 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.68% |      |
| 35) Dibromofluoromethane  | 4.29   | 113 | 148464   | 52.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.98% |      |
| 50) Toluene-d8            | 7.70   | 98  | 382375   | 46.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.04%  |      |
| 62) 4-Bromofluorobenzene  | 11.51  | 95  | 209118   | 49.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.14%  |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.98 | 85  | 63372  | 22.34  | ug/l   | 93     |
| 3) Chloromethane              | 1.08 | 50  | 37320  | 16.98  | ug/l   | 92     |
| 4) Vinyl Chloride             | 1.15 | 62  | 39418  | 19.88  | ug/l   | 99     |
| 5) Bromomethane               | 1.33 | 94  | 27473  | 23.78  | ug/l   | 95     |
| 6) Chloroethane               | 1.42 | 64  | 18993  | 23.09  | ug/l   | 89     |
| 7) Trichlorofluoromethane     | 1.48 | 101 | 27625  | 8.96   | ug/l   | 98     |
| 8) Diethyl Ether              | 1.70 | 74  | 15755  | 20.32  | ug/l   | 66     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.89 | 101 | 45637  | 23.24  | ug/l   | 97     |
| 10) Methyl Iodide             | 1.95 | 142 | 76393  | 22.23  | ug/l # | 86     |
| 11) Tert butyl alcohol        | 2.67 | 59  | 18335  | 94.14  | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 1.84 | 96  | 38254  | 23.16  | ug/l   | 98     |
| 13) Acrolein                  | 2.08 | 56  | 10830  | 64.24  | ug/l   | 90     |
| 14) Allyl chloride            | 2.18 | 41  | 69301  | 21.38  | ug/l   | 90     |
| 15) Acrylonitrile             | 3.07 | 53  | 38116  | 98.54  | ug/l # | 89     |
| 16) Acetone                   | 2.33 | 43  | 92837  | 127.92 | ug/l # | 86     |
| 17) Carbon Disulfide          | 1.84 | 76  | 84861  | 18.30  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.45 | 43  | 28136  | 22.55  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 2.53 | 73  | 127181 | 24.81  | ug/l   | 94     |
| 20) Methylene Chloride        | 2.27 | 84  | 41177  | 23.70  | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene  | 2.41 | 96  | 38316  | 21.16  | ug/l   | 87     |
| 22) Diisopropyl ether         | 2.92 | 45  | 143157 | 22.47  | ug/l   | 100    |
| 23) Vinyl Acetate             | 3.32 | 43  | 488127 | 116.19 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.00 | 63  | 91537  | 23.70  | ug/l   | 98     |
| 25) 2-Butanone                | 4.51 | 43  | 119144 | 105.89 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 3.76 | 77  | 68204  | 24.34  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 3.63 | 96  | 58643  | 21.04  | ug/l   | 94     |
| 28) Bromochloromethane        | 3.89 | 49  | 42760  | 24.59  | ug/l # | 94     |
| 29) Tetrahydrofuran           | 4.25 | 42  | 51601  | 104.08 | ug/l   | 97     |
| 30) Chloroform                | 4.03 | 83  | 129863 | 23.50  | ug/l   | 97     |
| 31) Cyclohexane               | 3.87 | 56  | 64881  | 19.23  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 4.27 | 97  | 104245 | 25.27  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 4.45 | 75  | 86116  | 22.04  | ug/l   | 94     |
| 37) Ethyl Acetate             | 4.28 | 43  | 49508  | 20.51  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 4.16 | 117 | 116567 | 27.53  | ug/l   | 98     |

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Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Jun 21 14:05:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 10:52:00 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 5.62  | 83   | 80085    | 20.11  | ug/l   | 92       |
| 40) Benzene                    | 4.81  | 78   | 180200   | 19.87  | ug/l   | 95       |
| 41) Methacrylonitrile          | 4.92  | 41   | 23551    | 19.86  | ug/l   | 95       |
| 42) 1,2-Dichloroethane         | 5.11  | 62   | 98480    | 24.21  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 7.11  | 43   | 61068    | 18.89  | ug/l # | 95       |
| 44) Trichloroethene            | 5.67  | 130  | 63178    | 22.30  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 6.40  | 63   | 53409    | 20.42  | ug/l # | 88       |
| 46) Dibromomethane             | 6.25  | 93   | 43430    | 22.07  | ug/l   | 97       |
| 47) Bromodichloromethane       | 6.55  | 83   | 105401   | 23.55  | ug/l   | 94       |
| 48) Methyl methacrylate        | 6.87  | 41   | 37627    | 18.88  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 6.86  | 88   | 5027     | 330.65 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone       | 8.40  | 43   | 238306   | 107.54 | ug/l   | 97       |
| 52) Toluene                    | 7.78  | 92   | 138252   | 21.16  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.42  | 75   | 97064    | 22.39  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene    | 7.45  | 75   | 106351   | 21.36  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 8.64  | 97   | 53926    | 22.78  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 8.75  | 69   | 58995    | 19.77  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 9.00  | 76   | 88959    | 21.97  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 7.78  | 63   | 24168    | 113.28 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.62  | 43   | 203375   | 116.02 | ug/l   | 94       |
| 60) Dibromochloromethane       | 8.86  | 129  | 78378    | 23.04  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.13  | 107  | 59639    | 21.68  | ug/l   | 97       |
| 64) Tetrachloroethene          | 8.30  | 164  | 61371    | 20.93  | ug/l   | 97       |
| 65) Chlorobenzene              | 9.94  | 112  | 178859   | 22.59  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.07 | 131  | 72005    | 22.86  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.04 | 91   | 313710   | 22.80  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.26 | 106  | 213633   | 41.48  | ug/l   | 88       |
| 69) o-Xylene                   | 10.82 | 106  | 121245   | 21.78  | ug/l   | 92       |
| 70) Styrene                    | 10.90 | 104  | 180681   | 21.45  | ug/l   | 97       |
| 71) Bromoform                  | 10.88 | 173  | 49005    | 22.91  | ug/l # | 94       |
| 73) Isopropylbenzene           | 11.23 | 105  | 366402   | 20.86  | ug/l   | 99       |
| 74) N-amyl acetate             | 11.47 | 43   | 118792   | 18.94  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.78 | 83   | 83140    | 19.97  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 11.89 | 75   | 62761    | 20.41  | ug/l   | 99       |
| 77) Bromobenzene               | 11.59 | 156  | 90045    | 20.37  | ug/l   | 91       |
| 78) n-propylbenzene            | 11.68 | 91   | 428309   | 20.61  | ug/l   | 94       |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 255902   | 20.84  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 11.91 | 105  | 314260   | 21.62  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-buten | 11.96 | 75   | 38565    | 19.34  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.99 | 91   | 265447   | 20.30  | ug/l   | 94       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 318116   | 22.04  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 315083   | 20.92  | ug/l   | 93       |
| 85) sec-Butylbenzene           | 12.39 | 105  | 420176   | 21.43  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 355560   | 22.07  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 12.56 | 146  | 183495   | 22.49  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.65 | 146  | 177598   | 22.59  | ug/l   | 97       |
| 89) n-Butylbenzene             | 12.91 | 91   | 367644   | 20.06  | ug/l   | 91       |
| 90) Hexachloroethane           | 12.99 | 117  | 88741    | 22.37  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 174339   | 22.18  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.71 | 75   | 16892    | 20.68  | ug/l   | 96       |

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Sample : VF0620SBS02  
Misc : 5.00µ/5mL/MSVOA-F/SOIL  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: Jun 21 14:05:46 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F060618S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 07 10:52:00 2018  
Response via : Initial Calibration

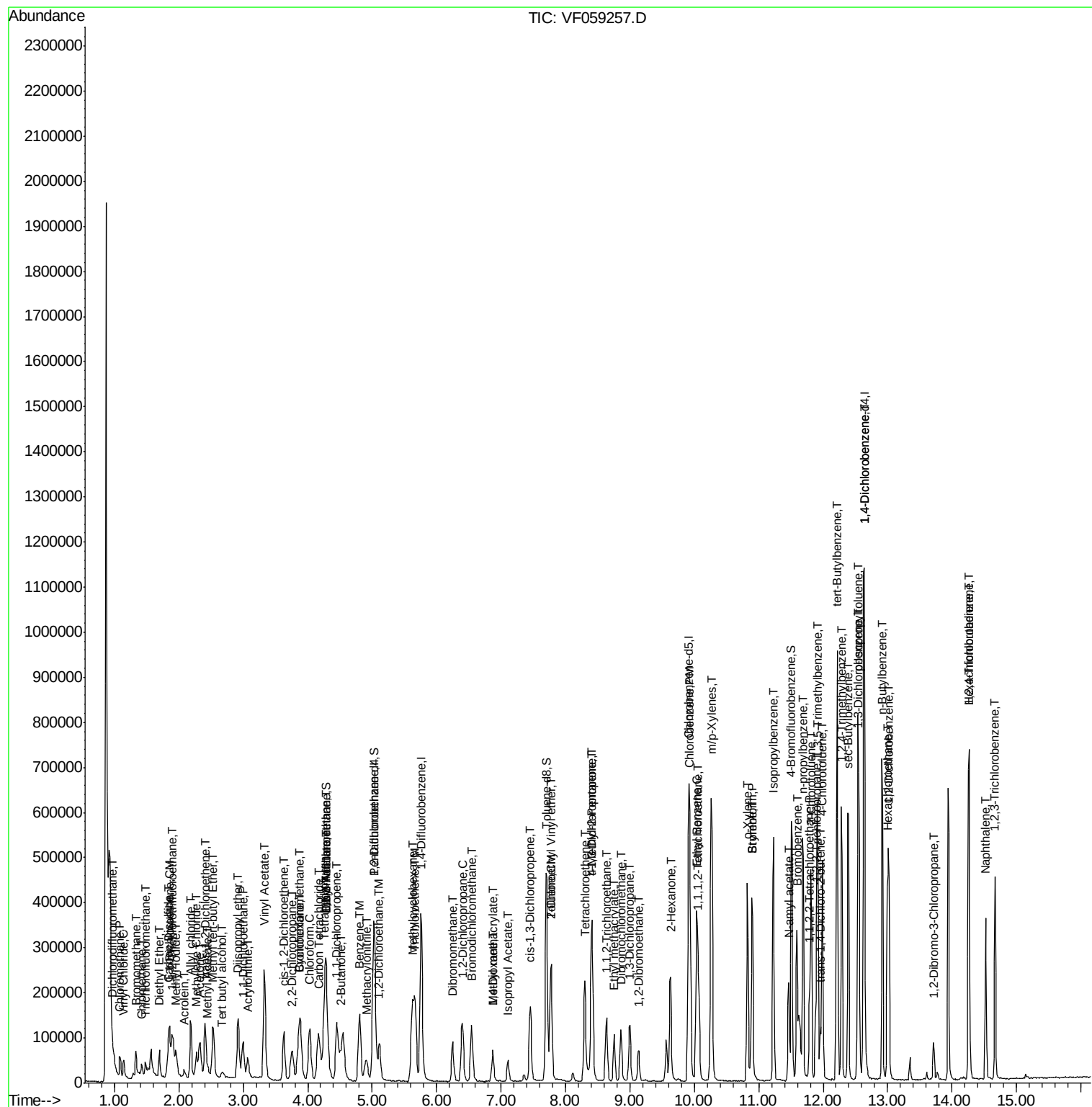
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.27 | 180  | 127614   | 23.21 | µg/l  | 95       |
| 94) Hexachlorobutadiene    | 14.26 | 225  | 75550    | 23.75 | µg/l  | 97       |
| 95) Naphthalene            | 14.52 | 128  | 247996   | 21.12 | µg/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.67 | 180  | 119684   | 23.56 | µg/l  | 93       |

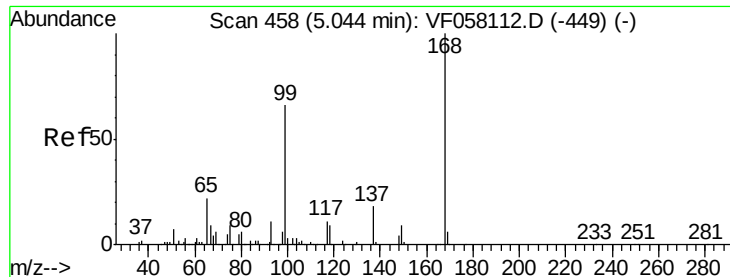
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

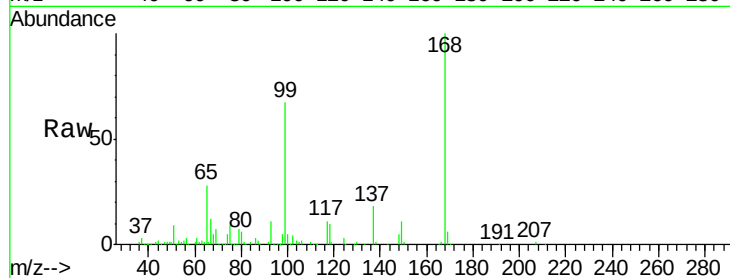
ClientSampleId :

Tot Ion:168 Resp: 250639

Ion Ratio Lower Upper

168 100

99 67.1 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

80000

60000

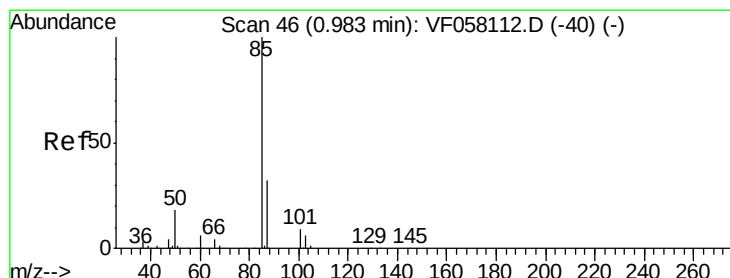
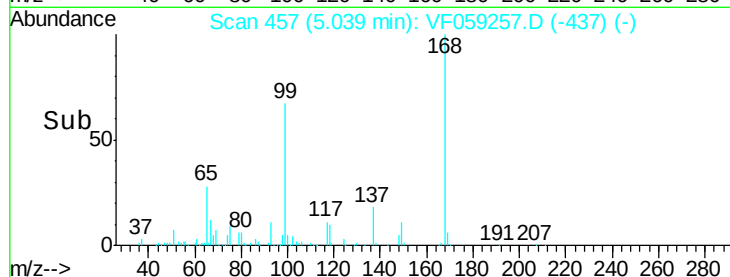
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 22.34 ug/l

RT: 0.98 min Scan# 45

Delta R.T. -0.01 min

Lab File: VF059257.D

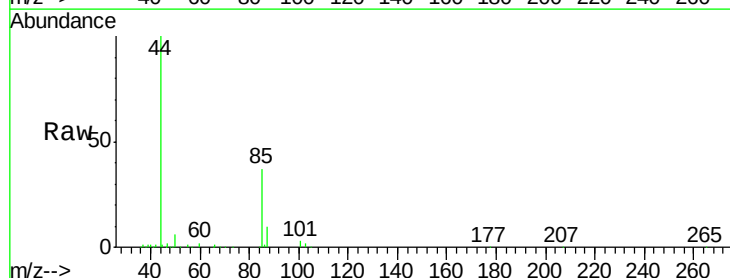
Acq: 21 Jun 2018 11:07

Tgt Ion: 85 Resp: 63372

Ion Ratio Lower Upper

85 100

87 28.5 16.2 48.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

20000

15000

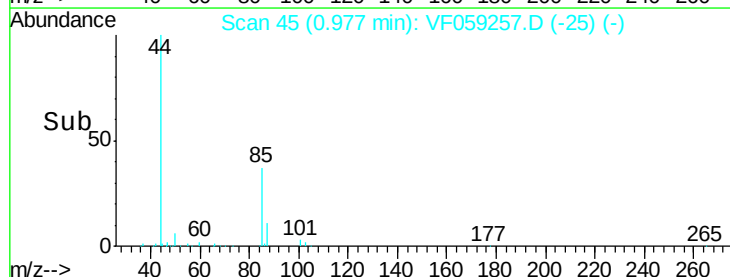
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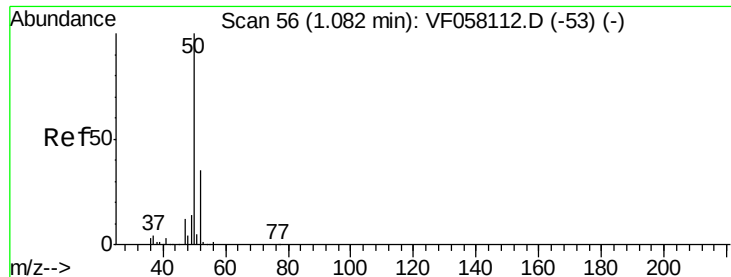
5000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 16.98 ug/l

RT: 1.08 min Scan# 55

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

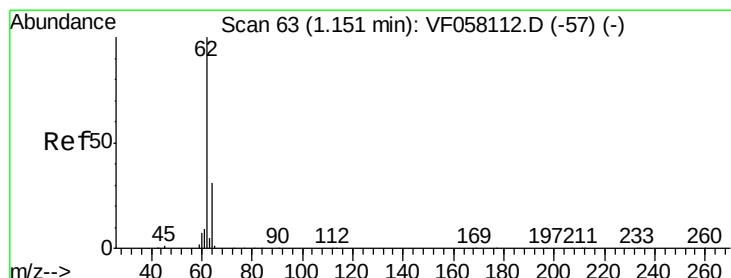
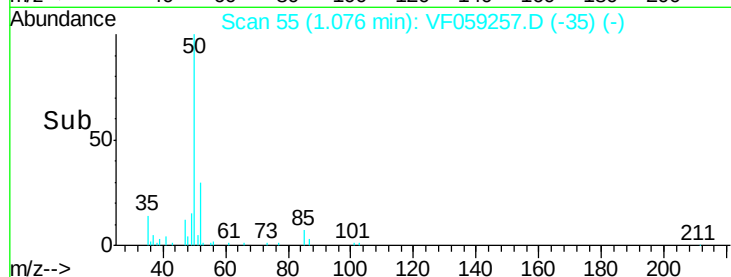
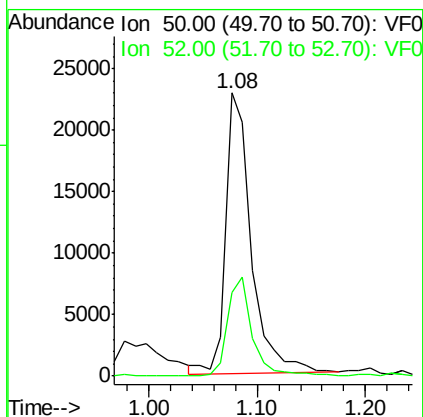
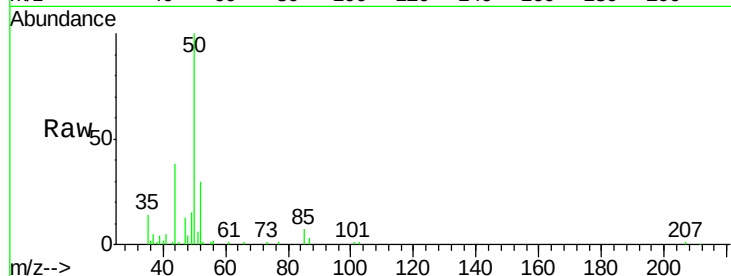
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 50 Resp: 37320

Ion Ratio Lower Upper

50 100

52 29.6 27.3 40.9



#4

Vinyl Chloride

Concen: 19.88 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF059257.D

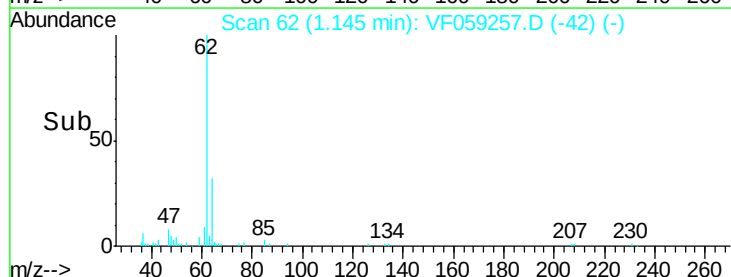
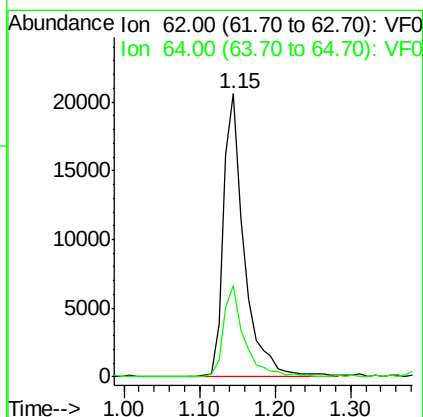
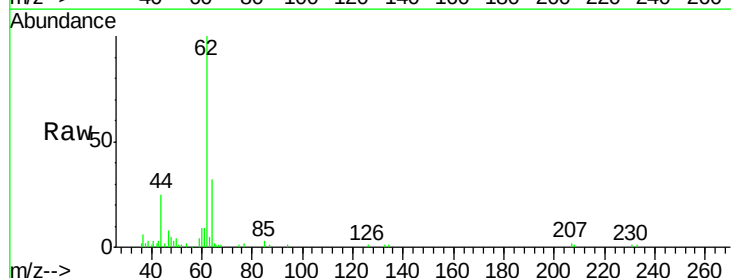
Acq: 21 Jun 2018 11:07

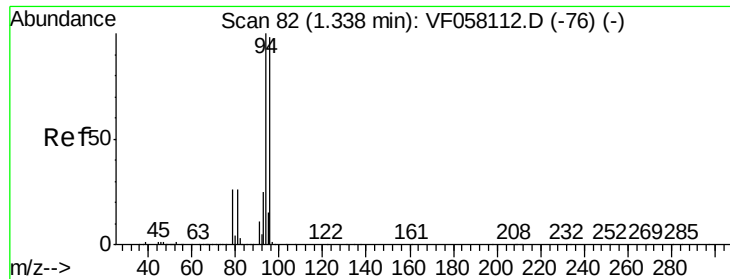
Tgt Ion: 62 Resp: 39418

Ion Ratio Lower Upper

62 100

64 32.1 25.0 37.6





#5

Bromomethane

Concen: 23.78 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

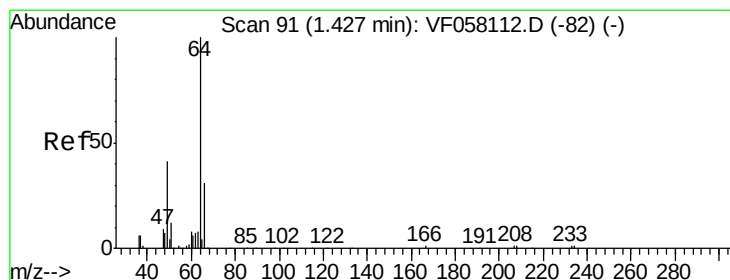
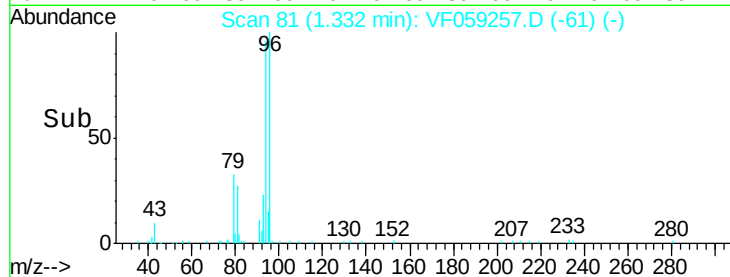
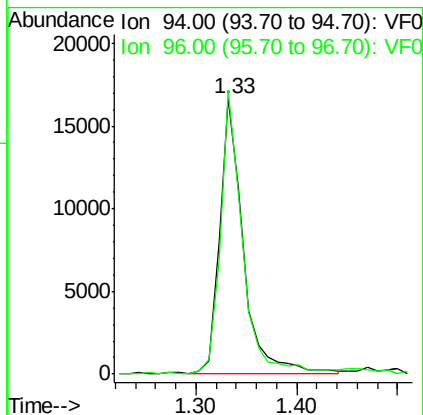
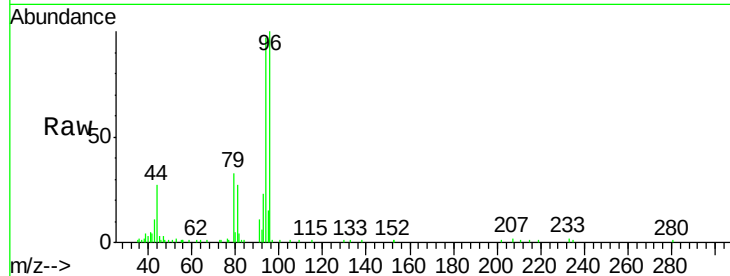
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 94 Resp: 27473

Ion Ratio Lower Upper

94 100

96 102.7 78.6 117.8



#6

Chloroethane

Concen: 23.09 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059257.D

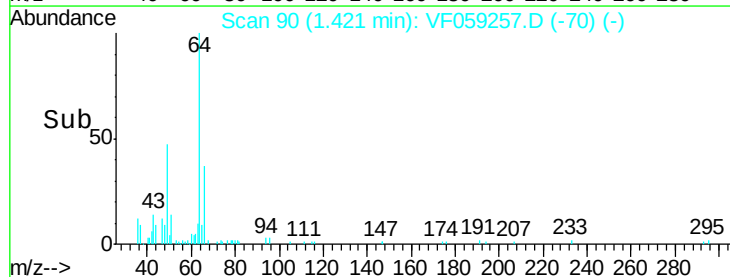
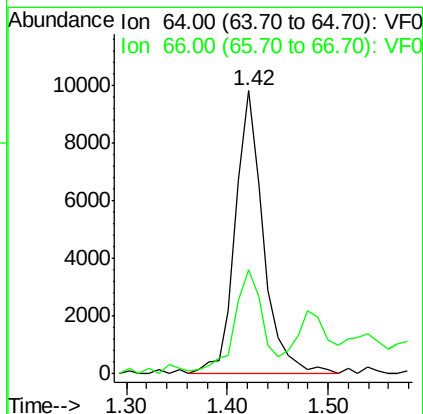
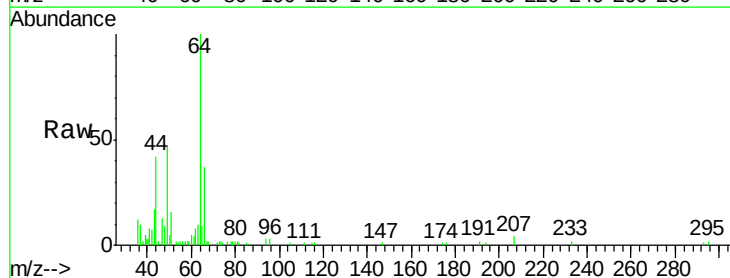
Acq: 21 Jun 2018 11:07

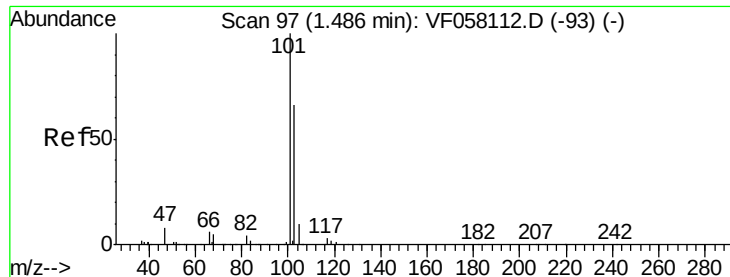
Tgt Ion: 64 Resp: 18993

Ion Ratio Lower Upper

64 100

66 37.0 24.9 37.3





#7

Trichlorofluoromethane

Concen: 8.96 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

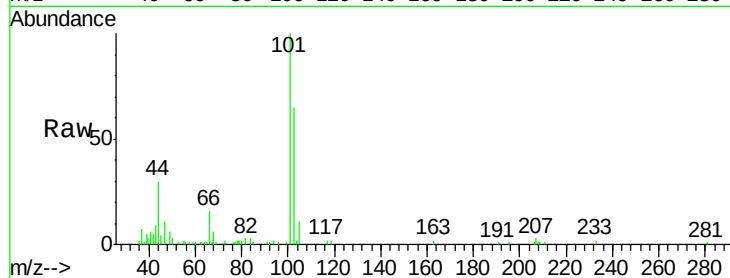
ClientSampleId :

Tot Ion:101 Resp: 27625

Ion Ratio Lower Upper

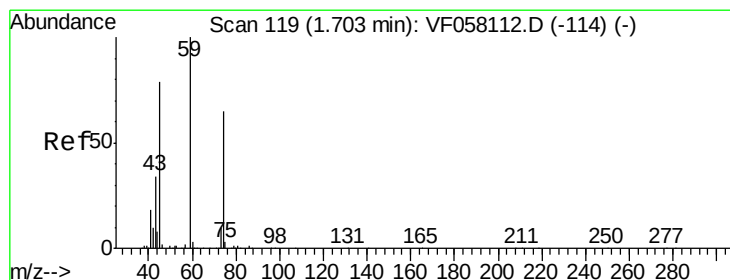
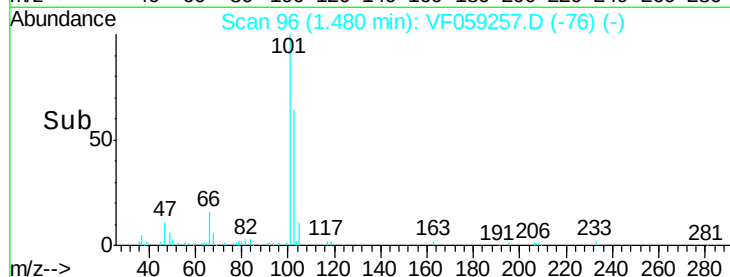
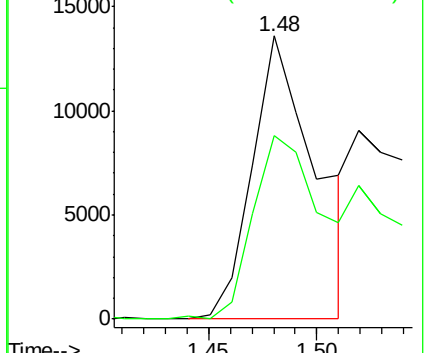
101 100

103 65.0 53.4 80.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 20.32 ug/l

RT: 1.70 min Scan# 118

Delta R.T. -0.01 min

Lab File: VF059257.D

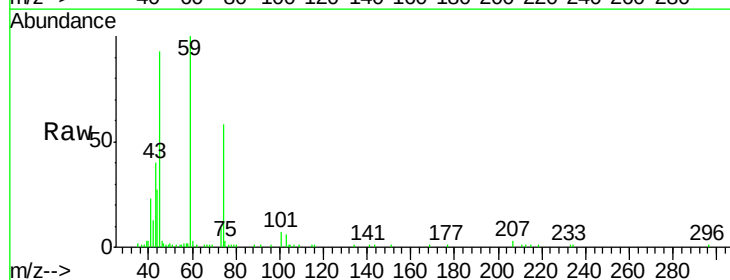
Acq: 21 Jun 2018 11:07

Tgt Ion: 74 Resp: 15755

Ion Ratio Lower Upper

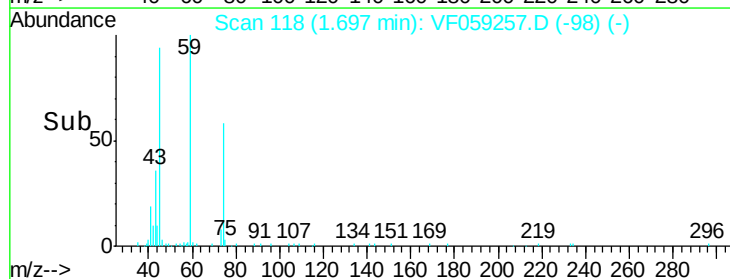
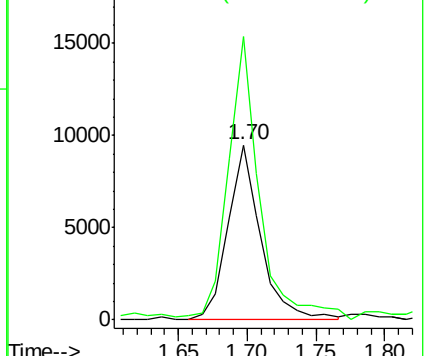
74 100

45 161.8 61.5 184.4

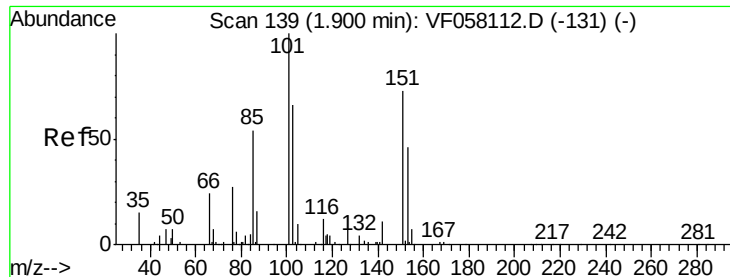


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0







#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.24 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF059257.D

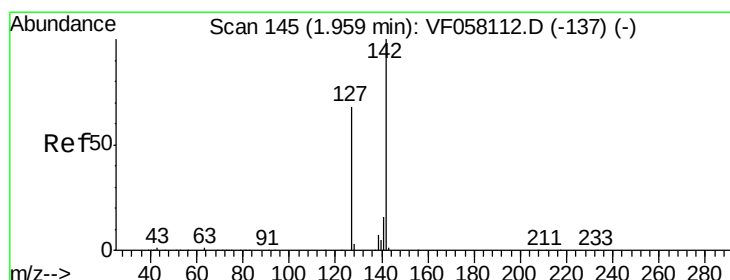
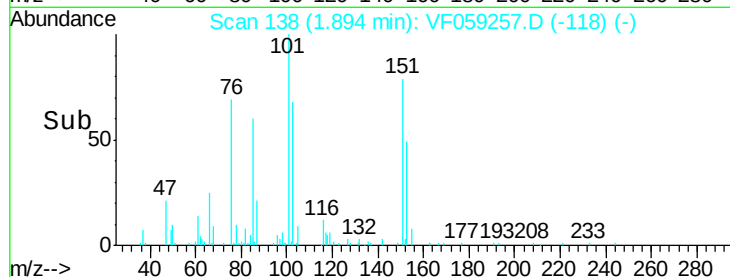
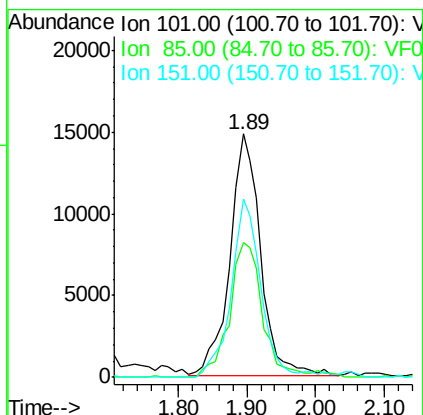
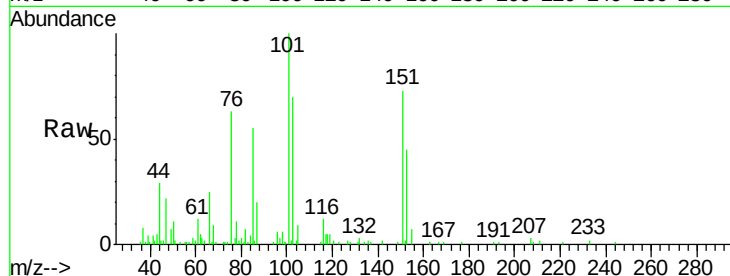
Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:101 | Resp: | 45637     |
| Ion Ratio   | Lower | Upper     |
| 101         | 100   |           |
| 85          | 55.2  | 42.2 63.4 |
| 151         | 73.5  | 56.8 85.2 |



#10

Methyl Iodide

Concen: 22.23 ug/l

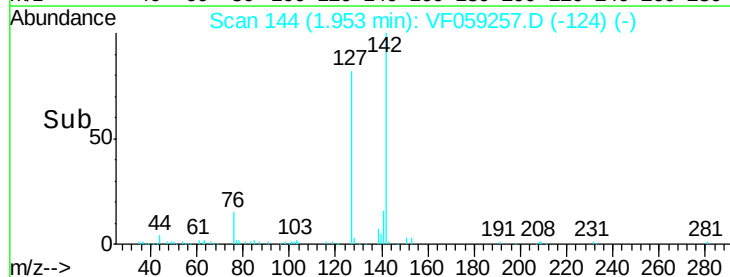
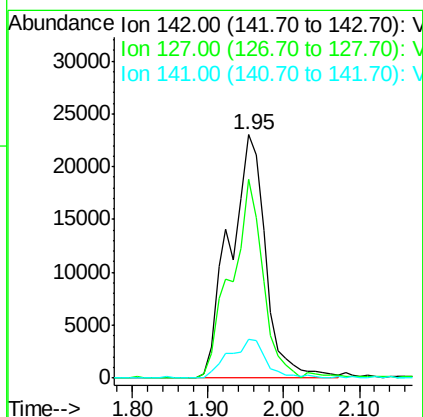
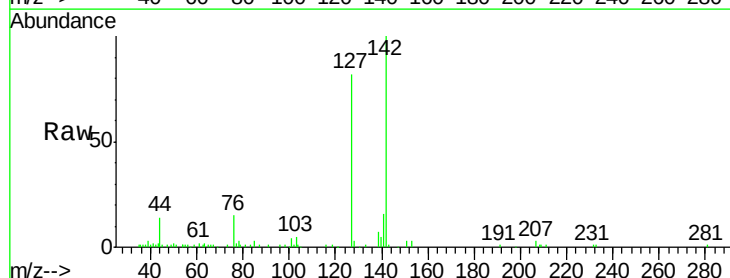
RT: 1.95 min Scan# 144

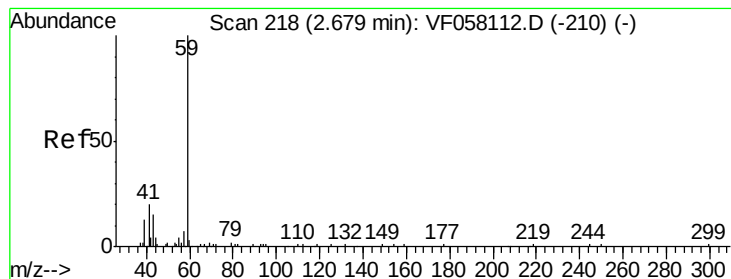
Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 76393      |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 127         | 81.8  | 54.1 81.1# |
| 141         | 15.8  | 13.0 19.4  |



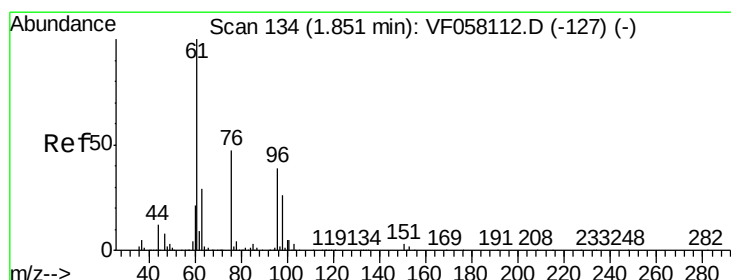
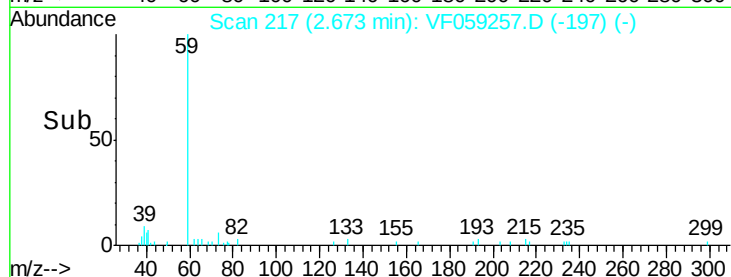
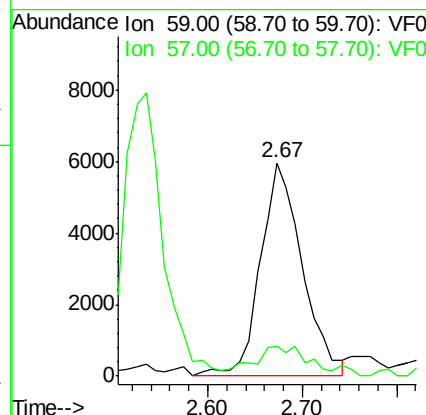
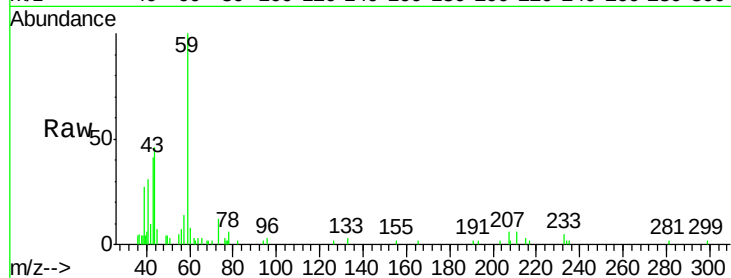


#11

Tert butyl alcohol  
Concen: 94.14 ug/l  
RT: 2.67 min Scan# 217  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

Instrument :  
MSVOA\_F  
ClientSampleId :

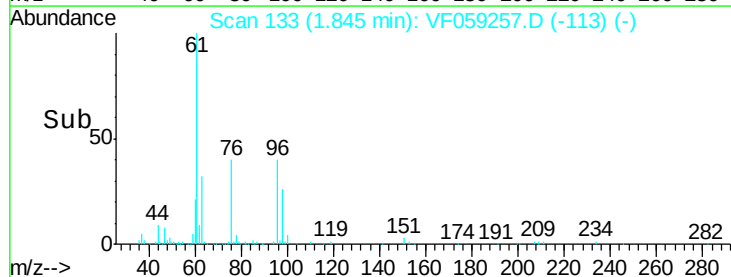
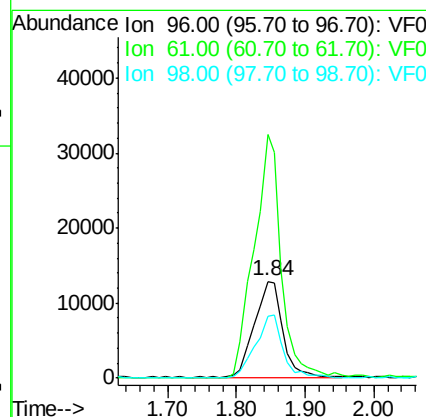
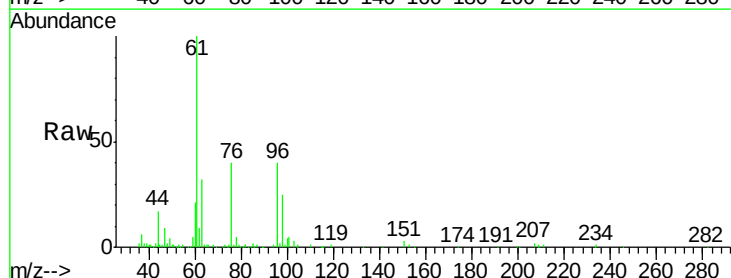
Tot Ion: 59 Resp: 18335  
Ion Ratio Lower Upper  
59 100  
57 13.9 8.7 13.1#

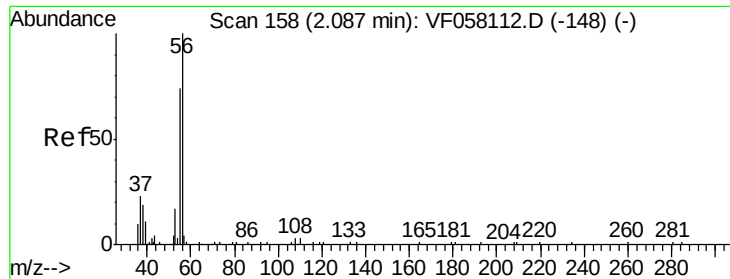


#12

1,1-Dichloroethene  
Concen: 23.16 ug/l  
RT: 1.84 min Scan# 133  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

Tgt Ion: 96 Resp: 38254  
Ion Ratio Lower Upper  
96 100  
61 251.2 203.0 304.4  
98 63.9 52.7 79.1





#13

Acrolein

Concen: 64.24 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

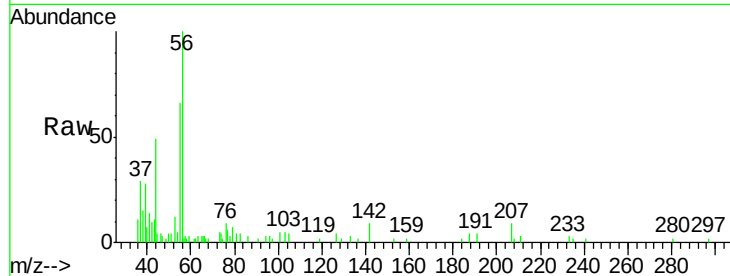
ClientSampleId :

Tot Ion: 56 Resp: 10830

Ion Ratio Lower Upper

56 100

55 66.1 60.0 90.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.08

6000

5000

4000

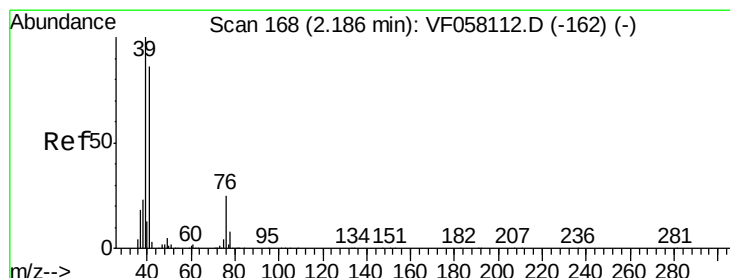
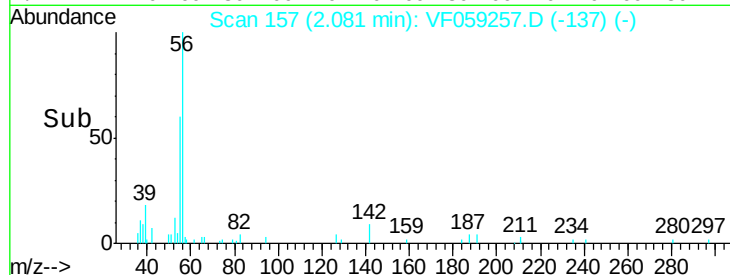
3000

2000

1000

0

Time--> 1.90 2.00 2.10 2.20



#14

Allyl chloride

Concen: 21.38 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

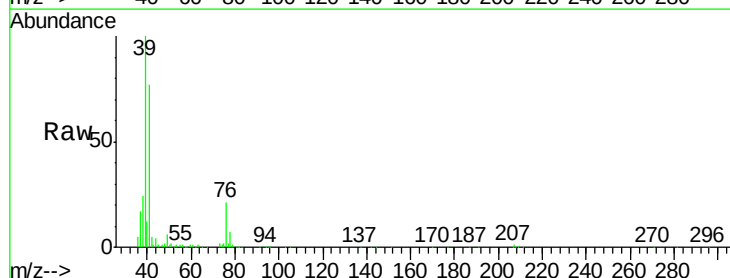
Tgt Ion: 41 Resp: 69301

Ion Ratio Lower Upper

41 100

39 129.8 93.5 140.3

76 27.0 23.9 35.9



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

60000

50000

40000

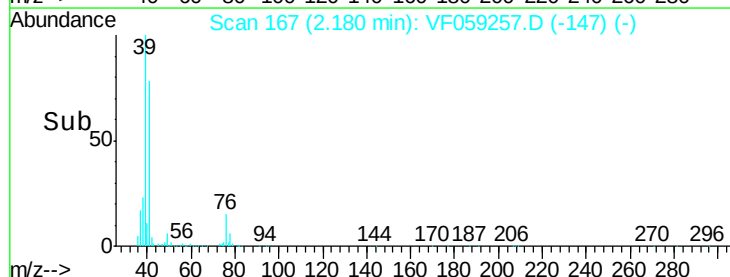
30000

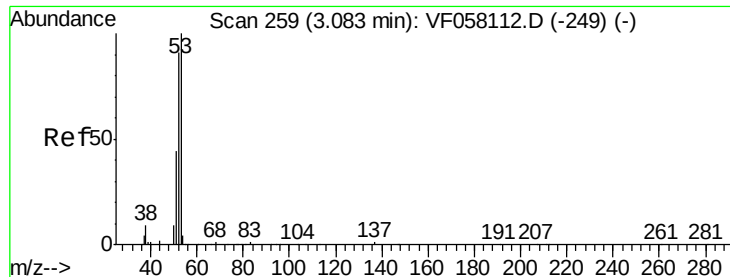
20000

10000

0

Time--> 2.10 2.15 2.20 2.25 2.30

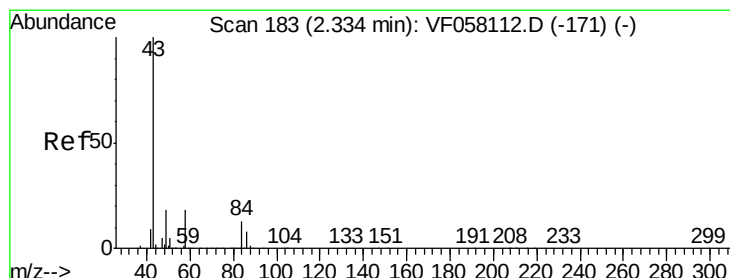
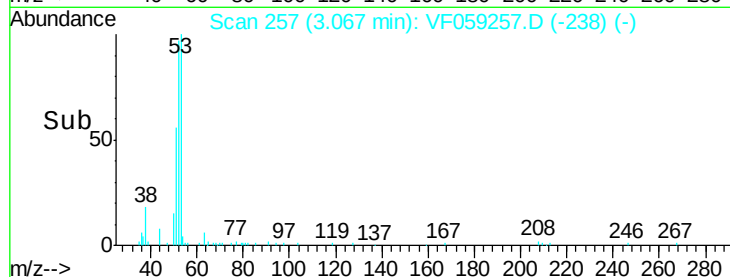
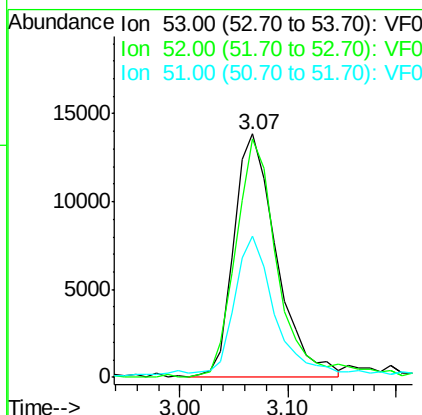
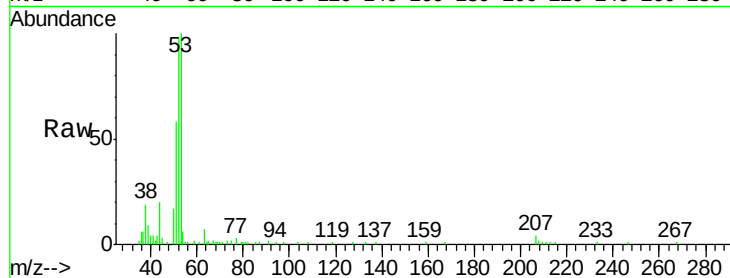




#15  
 Acrylonitrile  
 Concen: 98.54 ug/l  
 RT: 3.07 min Scan# 257  
 Delta R.T. -0.02 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

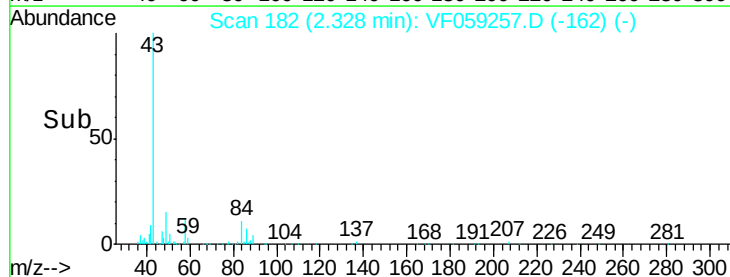
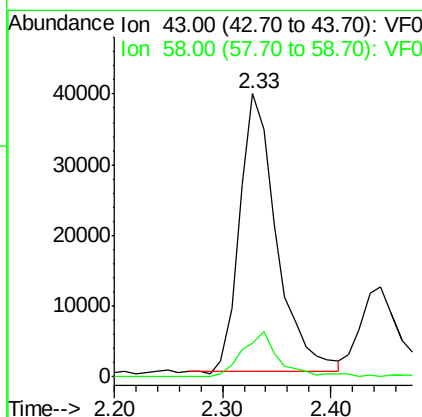
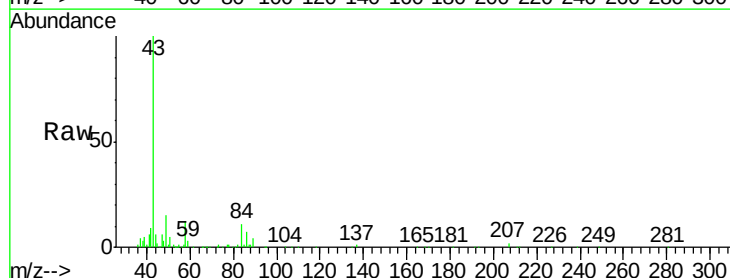
Instrument :  
 MSVOA\_F  
 ClientSampleId :

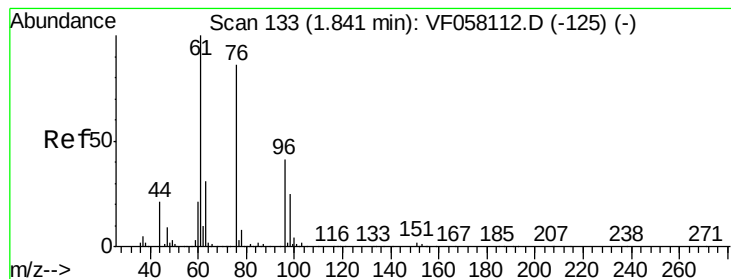
Tot Ion: 53 Resp: 38116  
 Ion Ratio Lower Upper  
 53 100  
 52 97.7 73.2 109.8  
 51 57.8 35.6 53.4#



#16  
 Acetone  
 Concen: 127.92 ug/l  
 RT: 2.33 min Scan# 182  
 Delta R.T. -0.01 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

Tgt Ion: 43 Resp: 92837  
 Ion Ratio Lower Upper  
 43 100  
 58 11.9 14.4 21.6#





#17

Carbon Disulfide

Concen: 18.30 ug/l

RT: 1.84 min Scan# 132

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

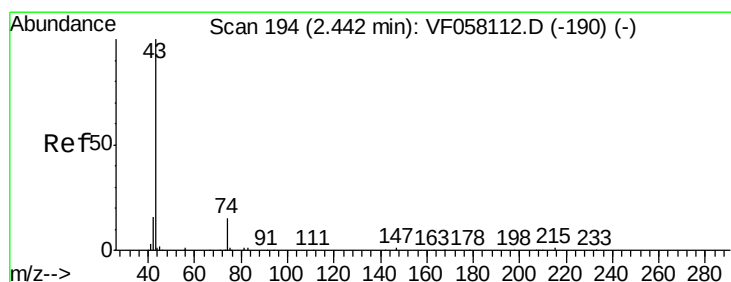
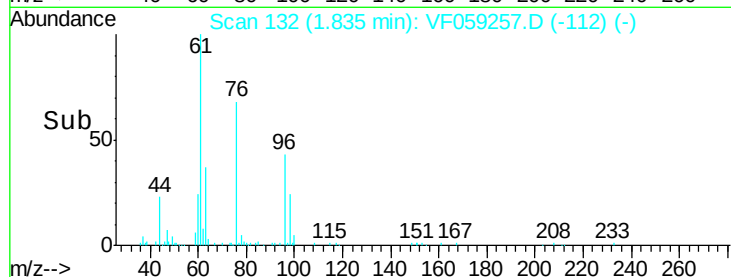
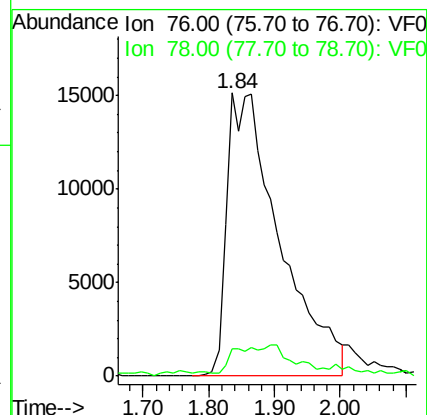
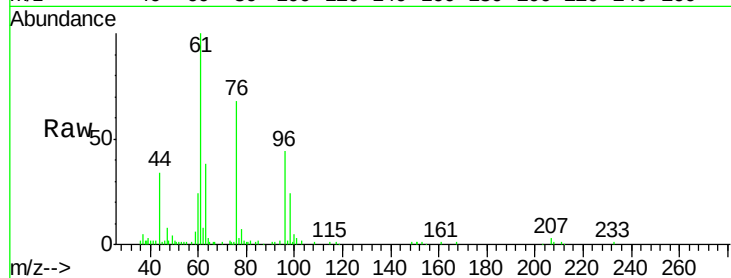
ClientSampleId :

Tot Ion: 76 Resp: 84861

Ion Ratio Lower Upper

76 100

78 9.9 7.8 11.8



#18

Methyl Acetate

Concen: 22.55 ug/l

RT: 2.45 min Scan# 194

Delta R.T. 0.00 min

Lab File: VF059257.D

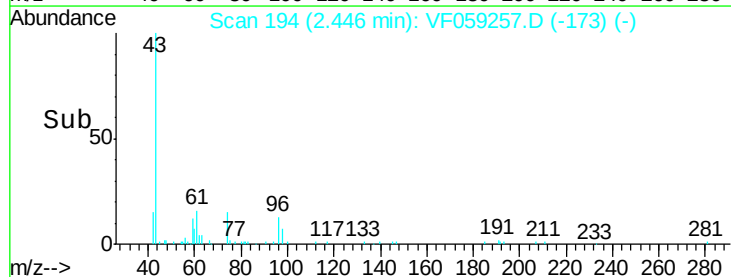
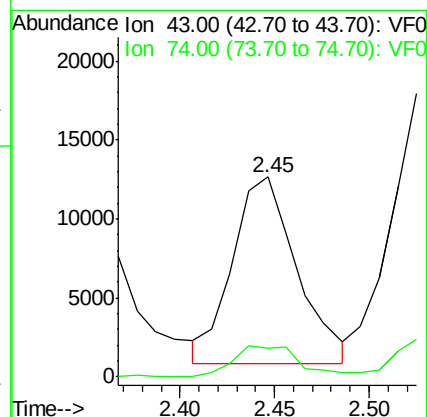
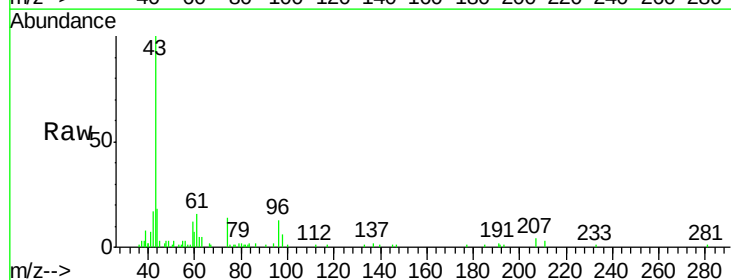
Acq: 21 Jun 2018 11:07

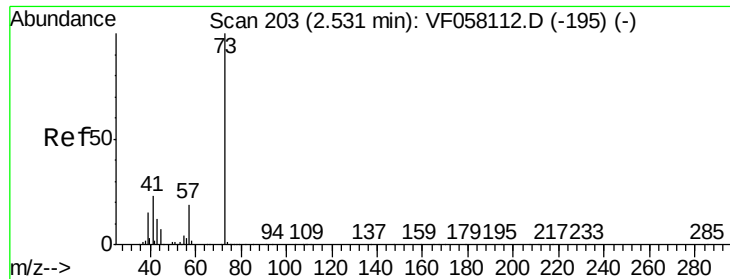
Tgt Ion: 43 Resp: 28136

Ion Ratio Lower Upper

43 100

74 14.0 10.9 16.3



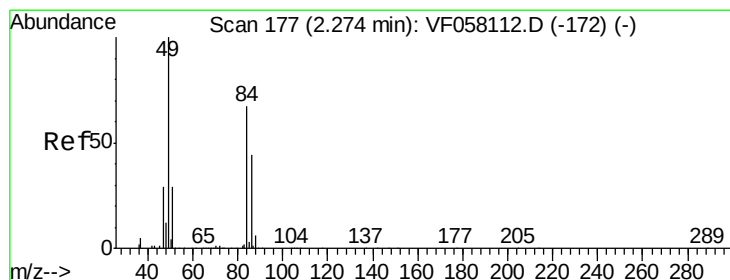
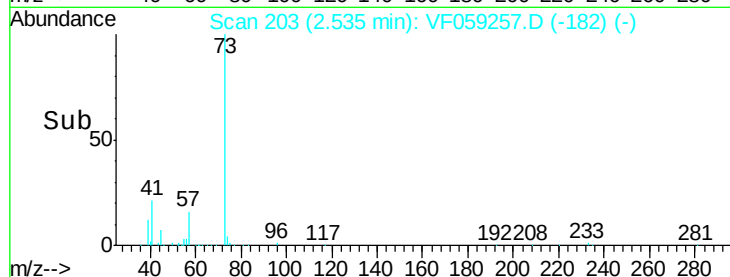
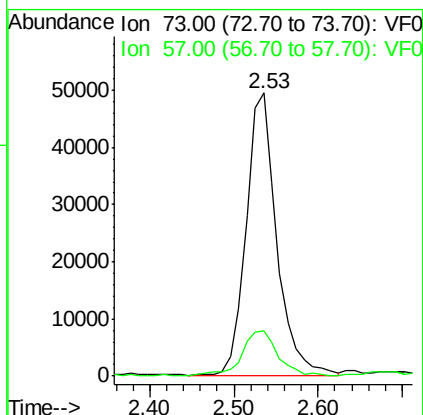
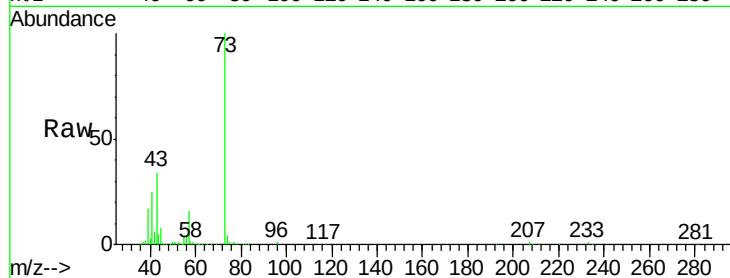


#19

Methyl tert-butyl Ether  
 Concen: 24.81 ug/l  
 RT: 2.53 min Scan# 203  
 Delta R.T. 0.00 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

Instrument :  
 MSVOA\_F  
 ClientSampled :

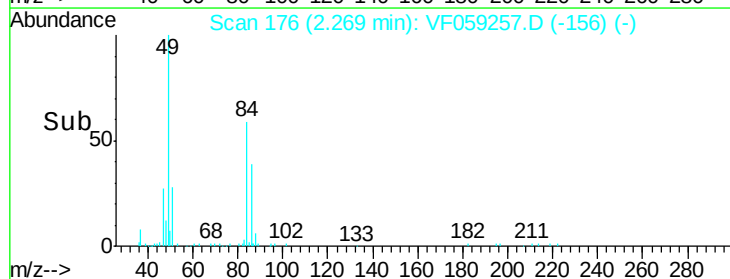
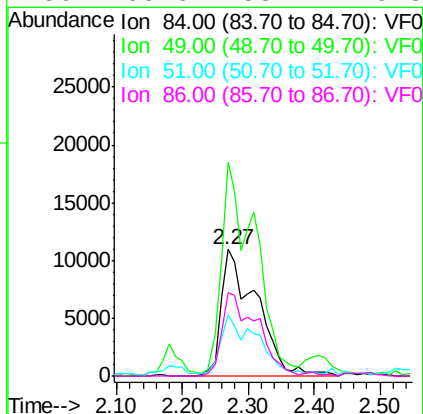
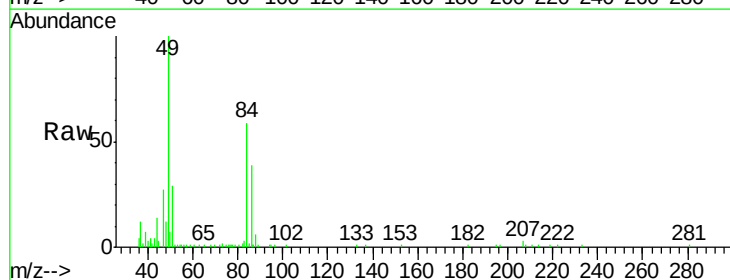
Tot Ion: 73 Resp: 127181  
 Ion Ratio Lower Upper  
 73 100  
 57 16.0 15.0 22.4

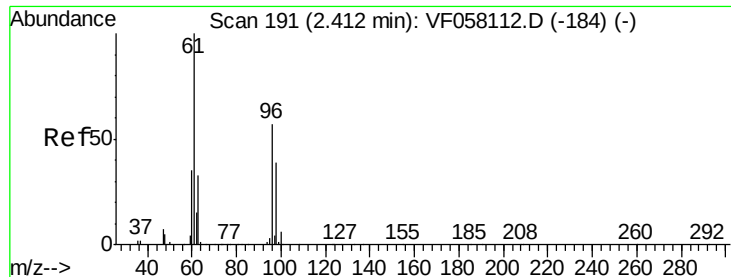


#20

Methylene Chloride  
 Concen: 23.70 ug/l  
 RT: 2.27 min Scan# 176  
 Delta R.T. -0.01 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

Tgt Ion: 84 Resp: 41177  
 Ion Ratio Lower Upper  
 84 100  
 49 169.3 121.0 181.4  
 51 48.9 35.8 53.6  
 86 65.6 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 21.16 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

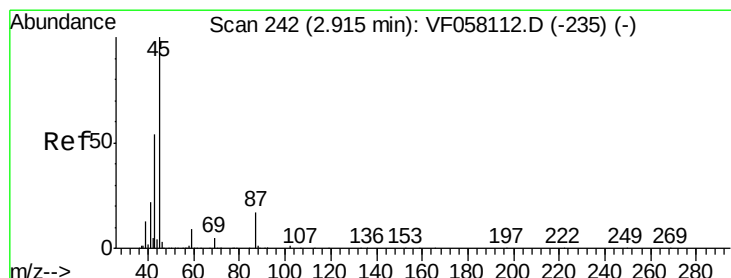
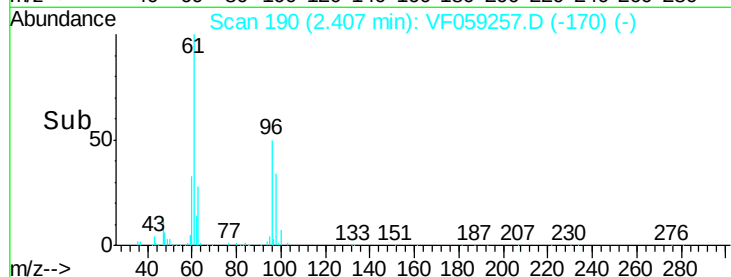
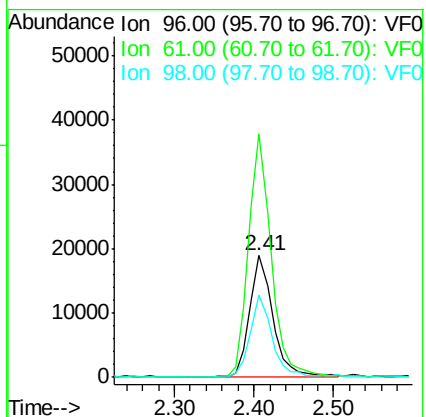
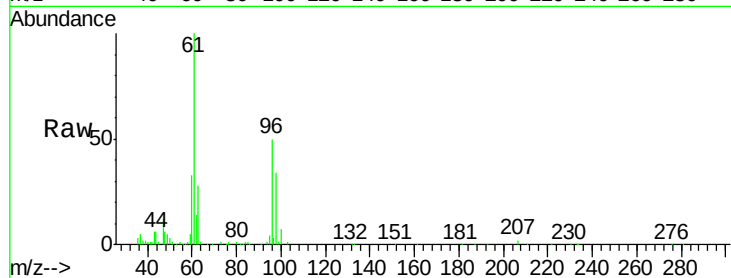
Tot Ion: 96 Resp: 38316

Ion Ratio Lower Upper

96 100

61 199.8 139.4 209.2

98 68.1 54.0 81.0



#22

Diisopropyl ether

Concen: 22.47 ug/l

RT: 2.92 min Scan# 242

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Tgt Ion: 45 Resp: 143157

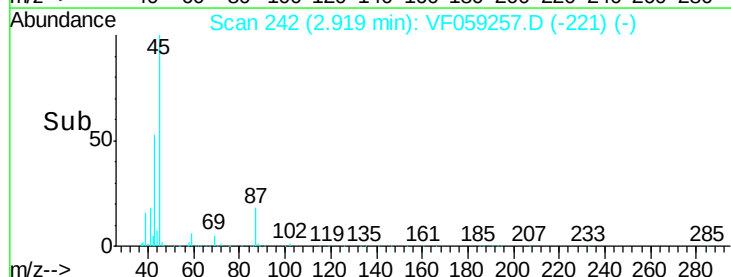
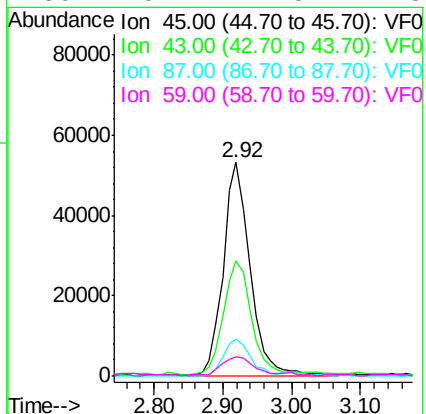
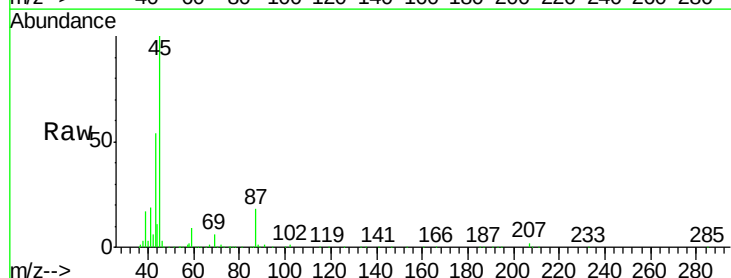
Ion Ratio Lower Upper

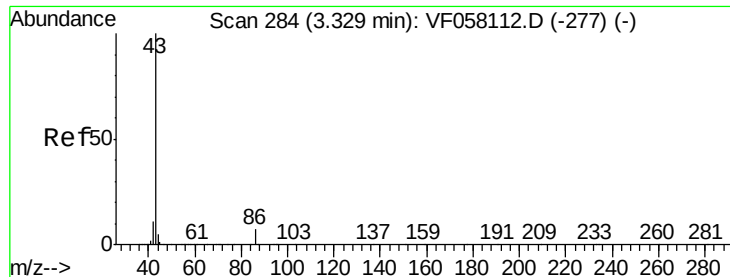
45 100

43 54.1 43.2 64.8

87 17.6 13.8 20.6

59 9.2 7.5 11.3





#23

Vinyl Acetate

Concen: 116.19 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

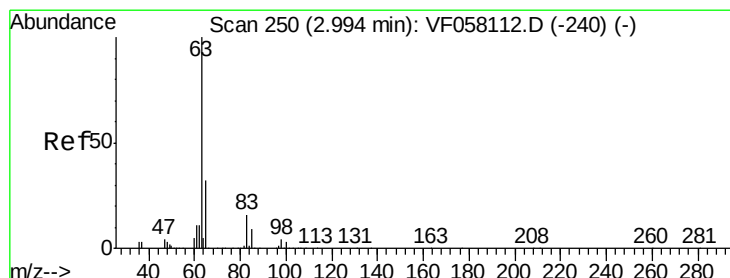
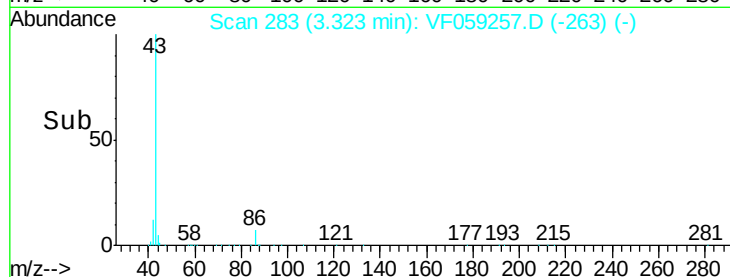
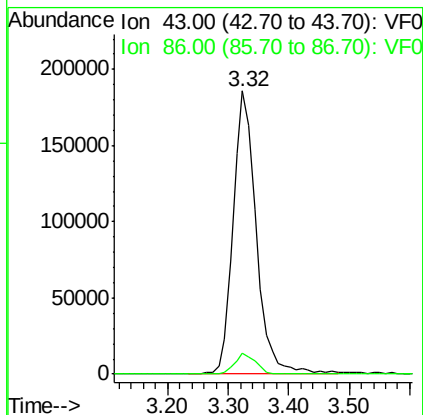
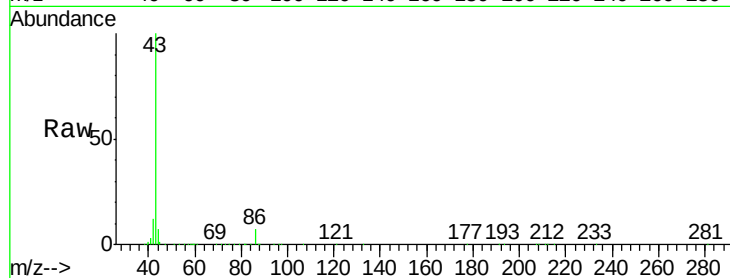
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 43 Resp: 488127

Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0



#24

1,1-Dichloroethane

Concen: 23.70 ug/l

RT: 3.00 min Scan# 250

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

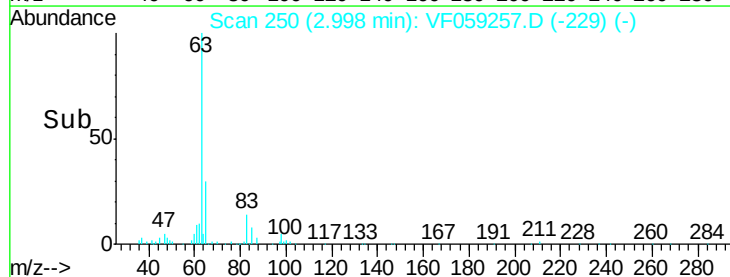
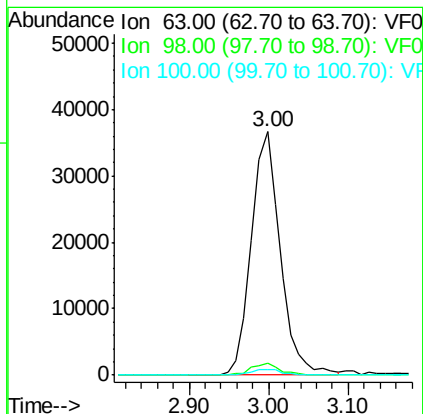
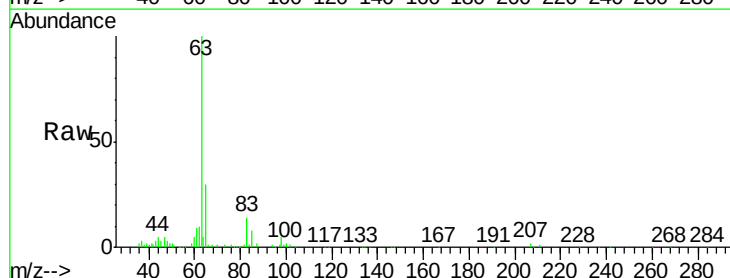
Tgt Ion: 63 Resp: 91537

Ion Ratio Lower Upper

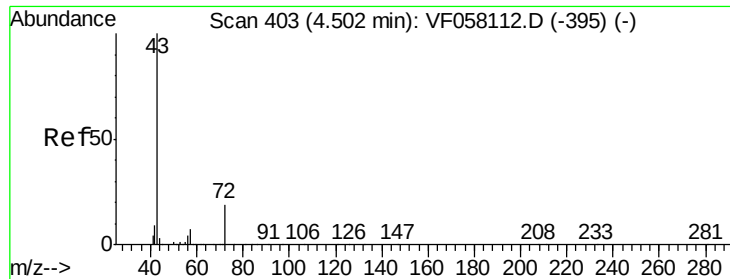
63 100

98 4.8 2.0 6.0

100 2.3 1.4 4.0







#25

2-Butanone

Concen: 105.89 ug/l

RT: 4.51 min Scan# 403

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

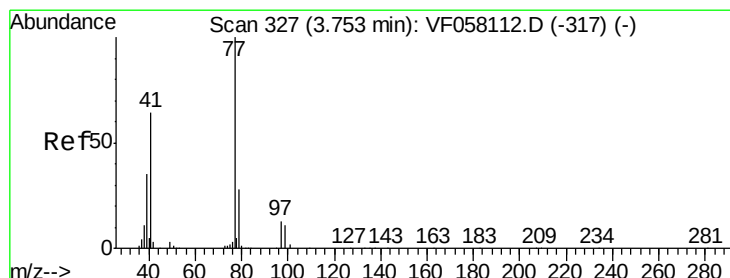
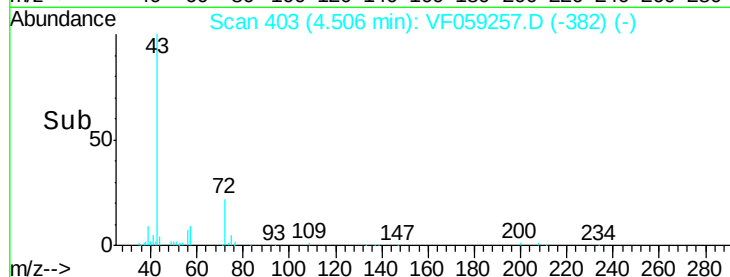
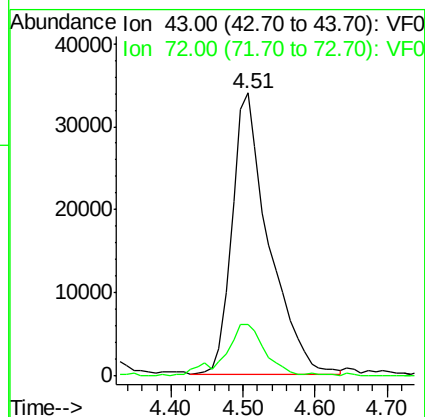
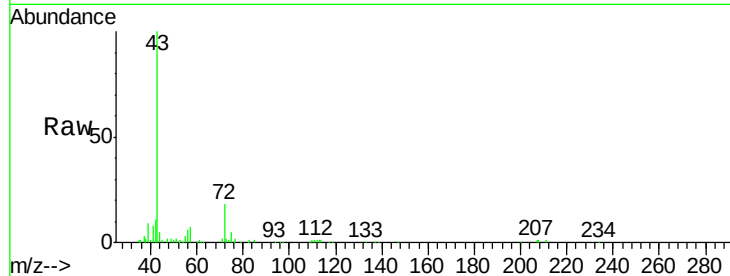
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 43 Resp: 119144

Ion Ratio Lower Upper

43 100

72 18.4 16.1 24.1



#26

2,2-Dichloropropane

Concen: 24.34 ug/l

RT: 3.76 min Scan# 327

Delta R.T. 0.00 min

Lab File: VF059257.D

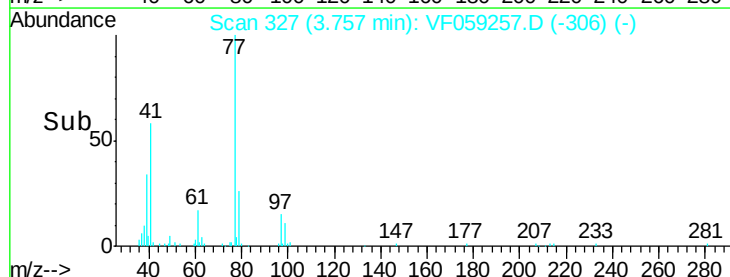
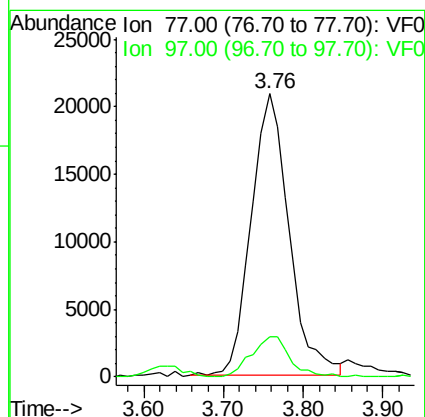
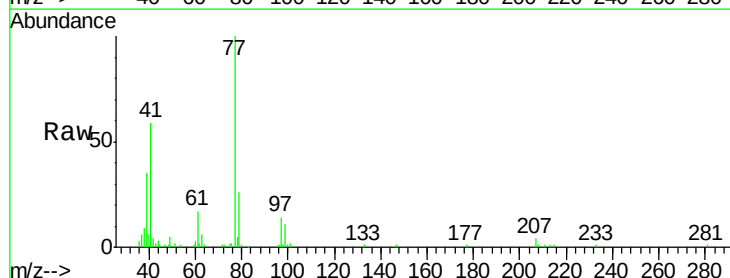
Acq: 21 Jun 2018 11:07

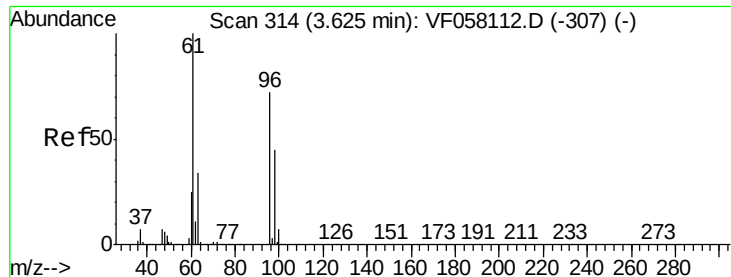
Tgt Ion: 77 Resp: 68204

Ion Ratio Lower Upper

77 100

97 14.4 7.2 21.6



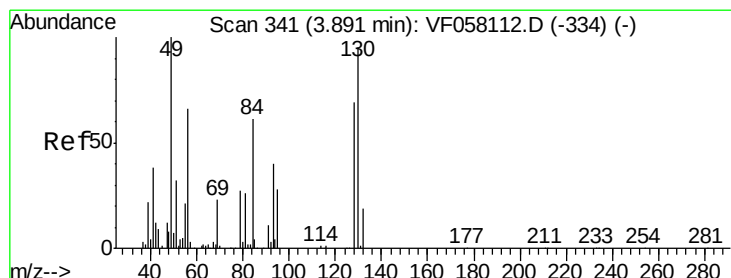
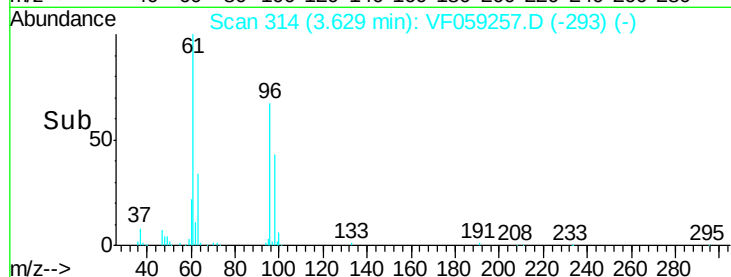
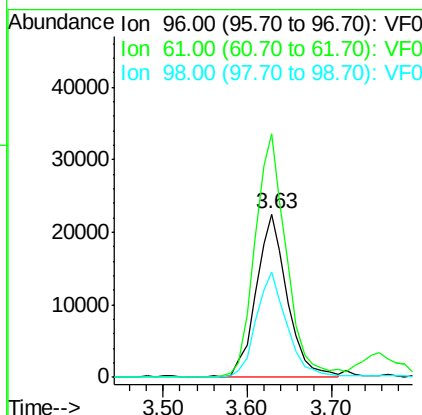
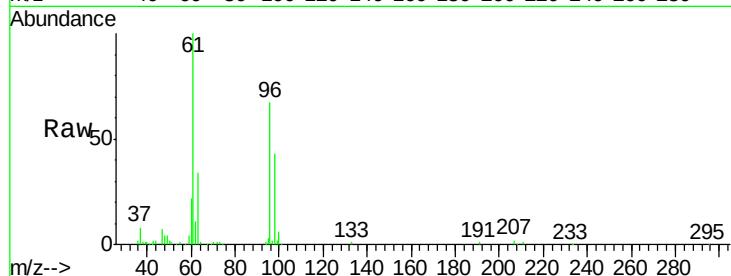


#27

cis-1,2-Dichloroethene  
Concen: 21.04 ug/l  
RT: 3.63 min Scan# 314  
Delta R.T. 0.00 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

Instrument :  
MSVOA\_F  
ClientSampleId :

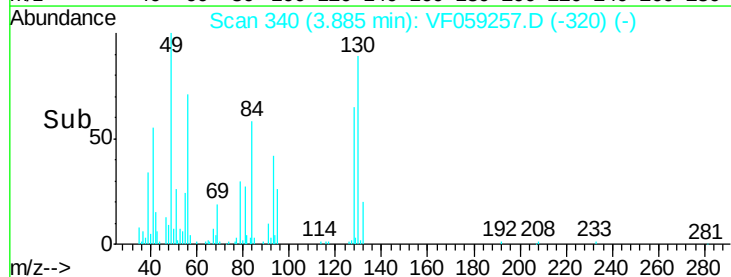
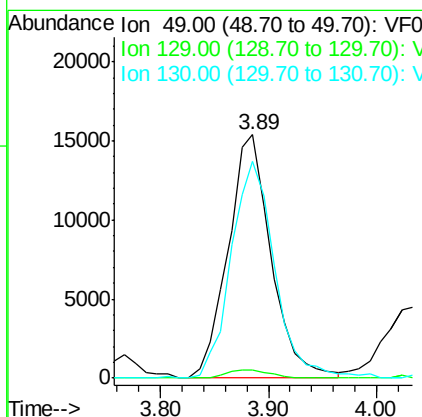
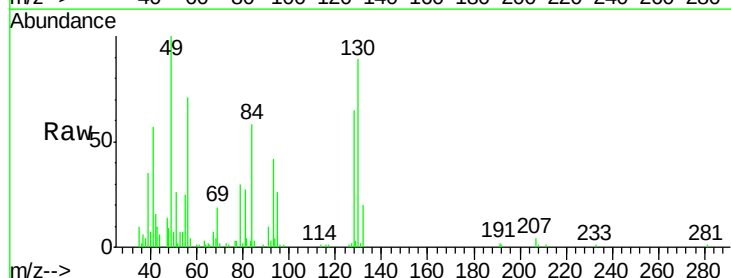
| Tot Ion | 96    | Resp  | 58643 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 148.9 | 0.0   | 278.6 |
| 98      | 64.5  | 0.0   | 125.2 |

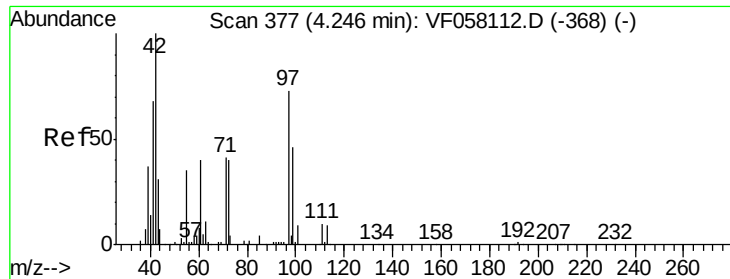


#28

Bromochloromethane  
Concen: 24.59 ug/l  
RT: 3.89 min Scan# 340  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

| Tgt Ion | 49    | Resp  | 42760 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 49      | 100   |       |       |
| 129     | 3.1   | 0.0   | 0.0#  |
| 130     | 89.0  | 75.8  | 113.8 |





#29

Tetrahydrofuran

Concen: 104.08 ug/l

RT: 4.25 min Scan# 377

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

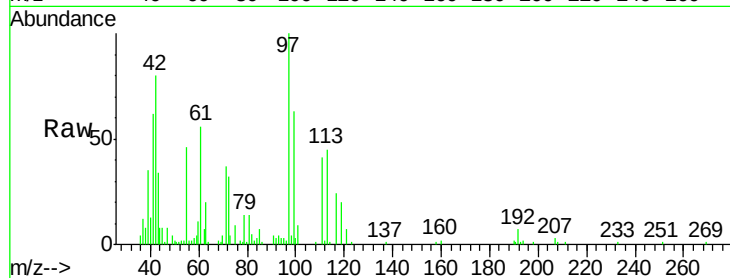
Tot Ion: 42 Resp: 51601

Ion Ratio Lower Upper

42 100

72 36.9 30.5 45.7

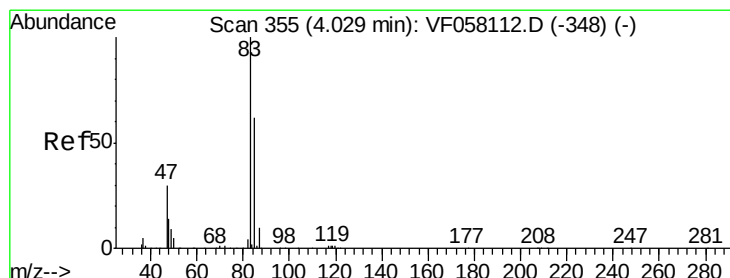
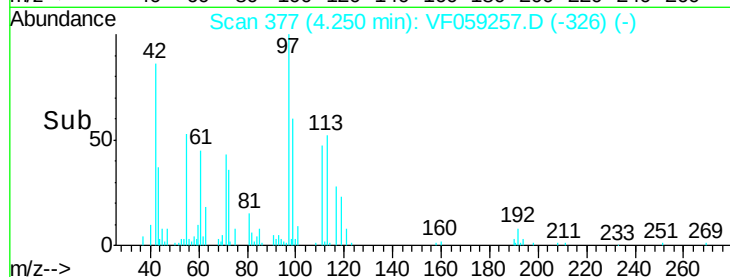
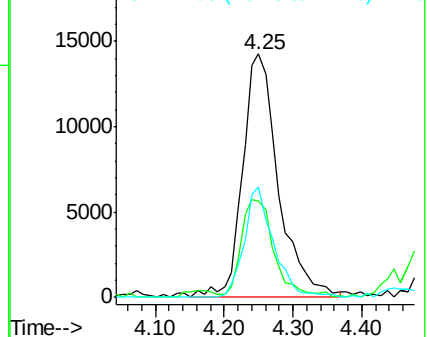
71 37.3 31.5 47.3



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 23.50 ug/l

RT: 4.03 min Scan# 355

Delta R.T. 0.00 min

Lab File: VF059257.D

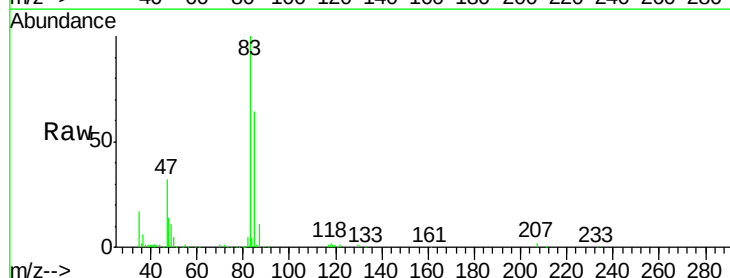
Acq: 21 Jun 2018 11:07

Tgt Ion: 83 Resp: 129863

Ion Ratio Lower Upper

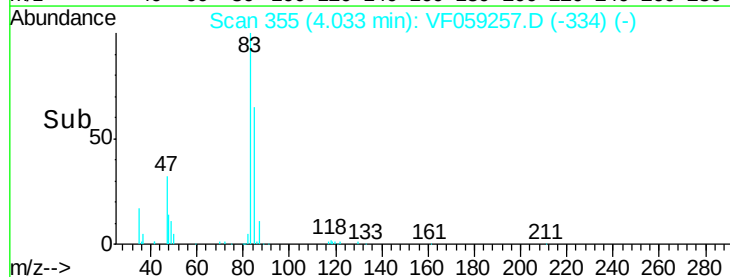
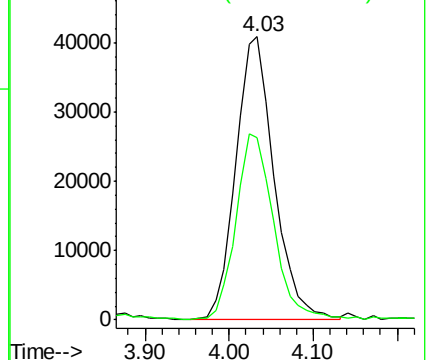
83 100

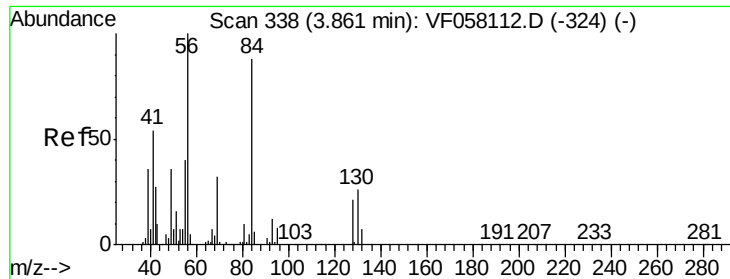
85 64.3 49.5 74.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

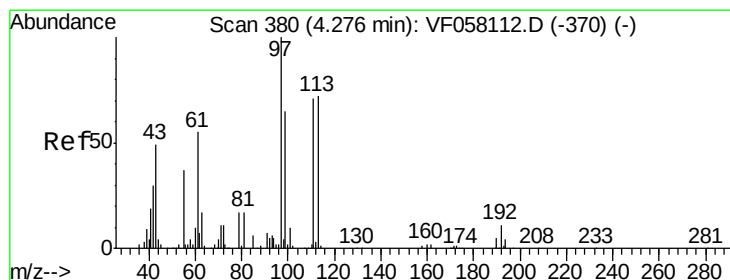
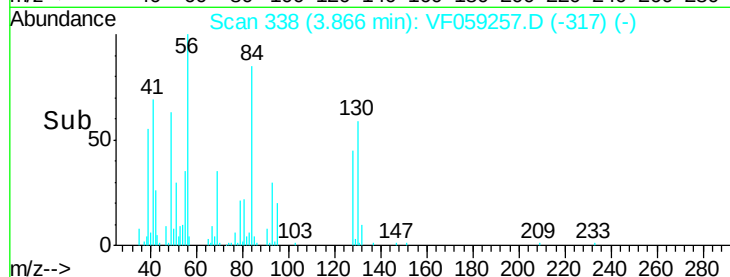
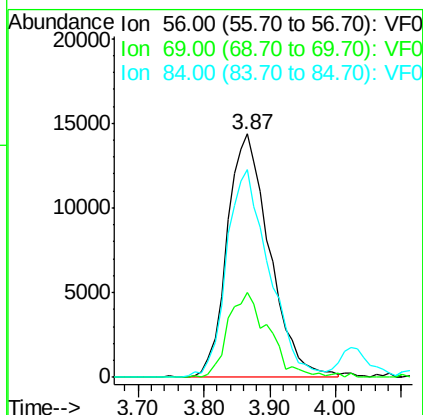
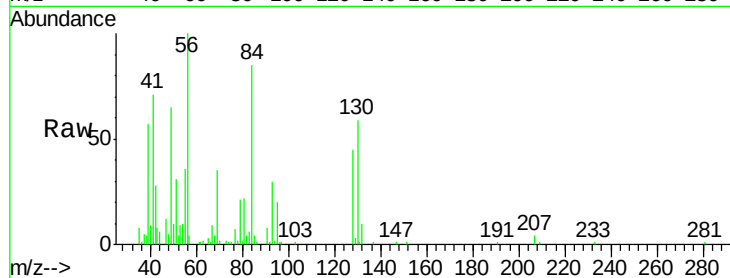




#31  
Cyclohexane  
Concen: 19.23 ug/l  
RT: 3.87 min Scan# 338  
Delta R.T. 0.00 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

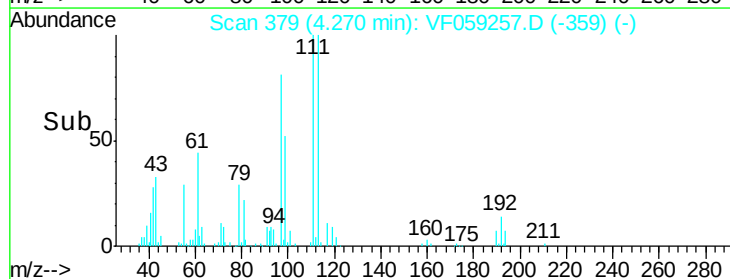
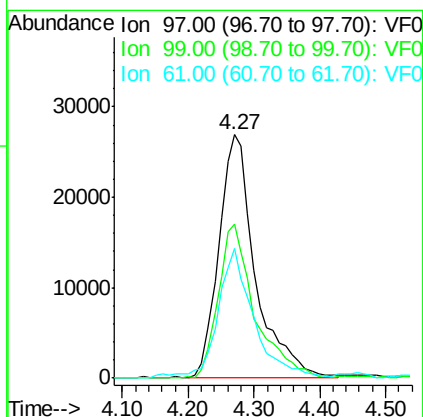
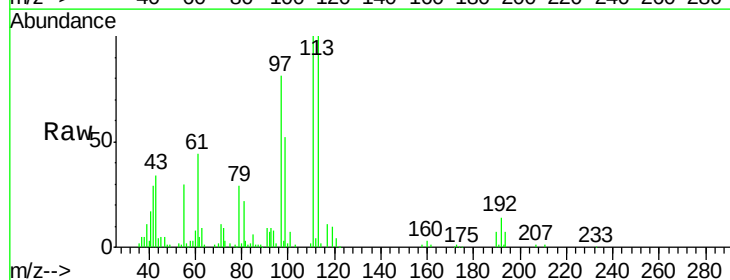
Instrument :  
MSVOA\_F  
ClientSampleId :

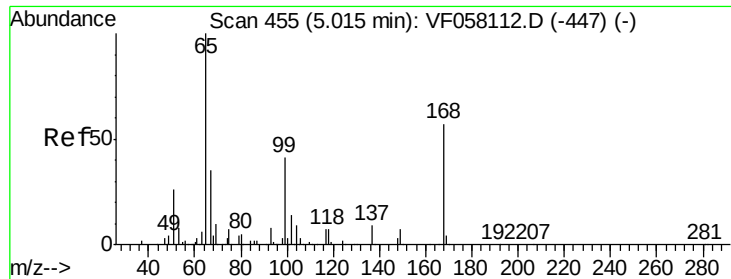
Tot Ion: 56 Resp: 64881  
Ion Ratio Lower Upper  
56 100  
69 34.8 25.9 38.9  
84 85.3 70.3 105.5



#32  
1,1,1-Trichloroethane  
Concen: 25.27 ug/l  
RT: 4.27 min Scan# 379  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

Tgt Ion: 97 Resp: 104245  
Ion Ratio Lower Upper  
97 100  
99 63.3 52.0 78.0  
61 53.5 44.3 66.5

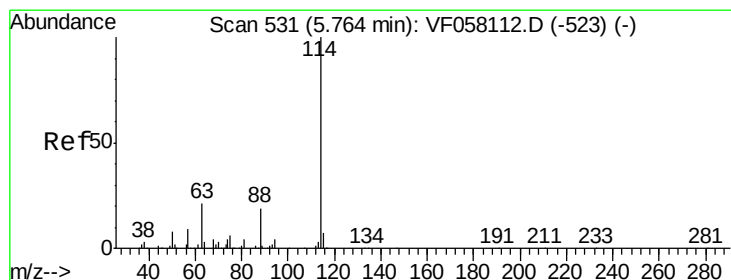
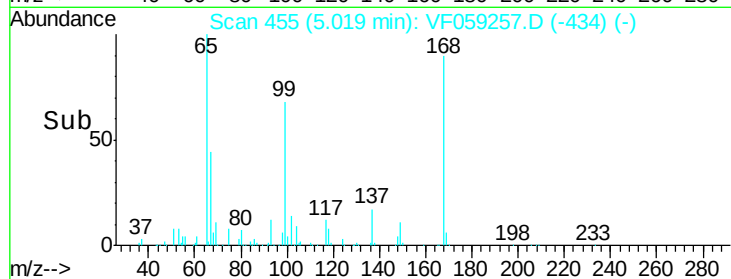
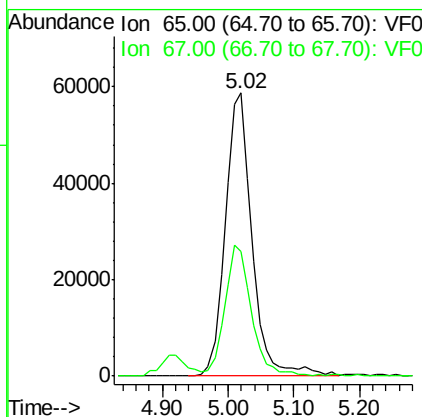
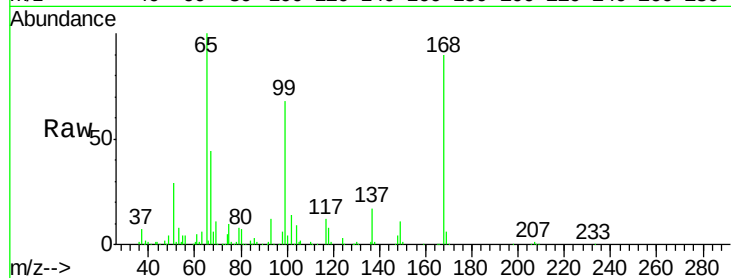




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.84 ug/l  
 RT: 5.02 min Scan# 455  
 Delta R.T. 0.00 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

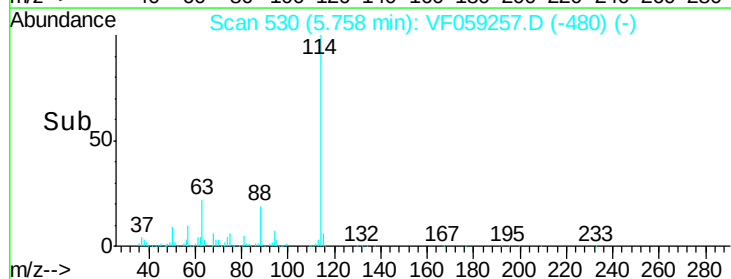
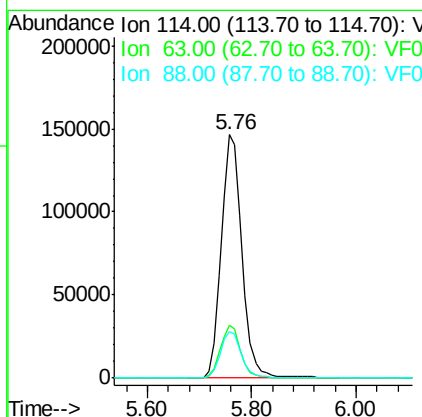
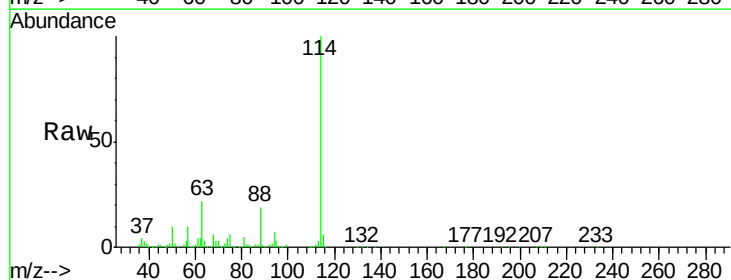
Instrument :  
 MSVOA\_F  
 ClientSampleId :

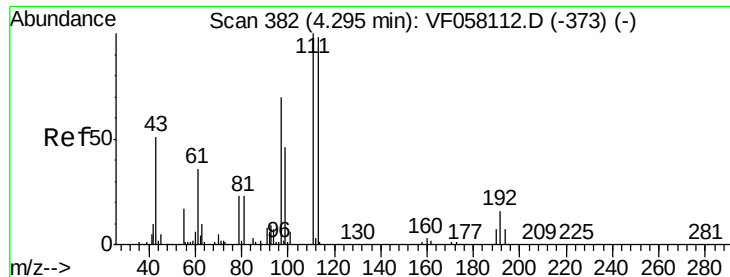
Tot Ion: 65 Resp: 166696  
 Ion Ratio Lower Upper  
 65 100  
 67 44.0 0.0 97.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.76 min Scan# 530  
 Delta R.T. -0.01 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

Tgt Ion: 114 Resp: 403097  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 41.6  
 88 19.2 0.0 38.8





#35

Dibromofluoromethane

Concen: 52.49 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :  
MSVOA\_F  
ClientSampled :

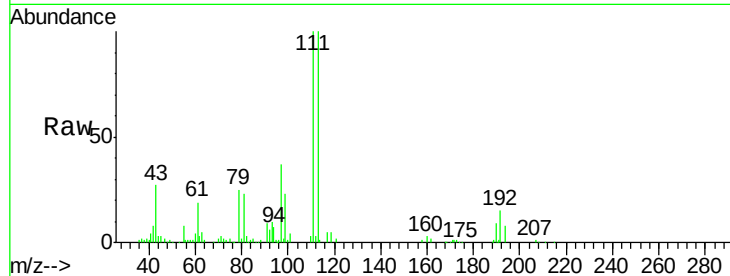
Tot Ion:113 Resp: 148464

Ion Ratio Lower Upper

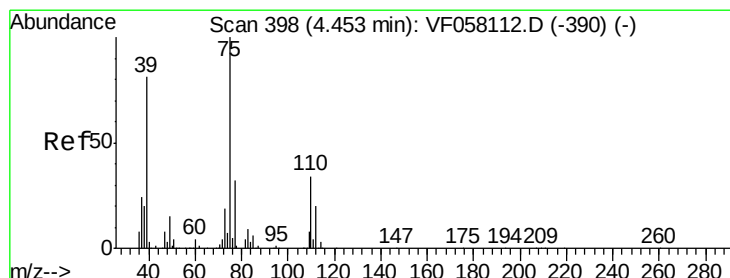
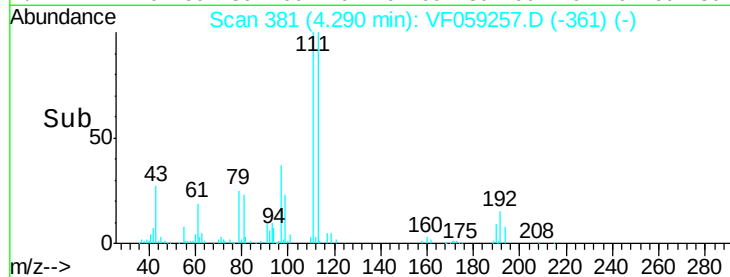
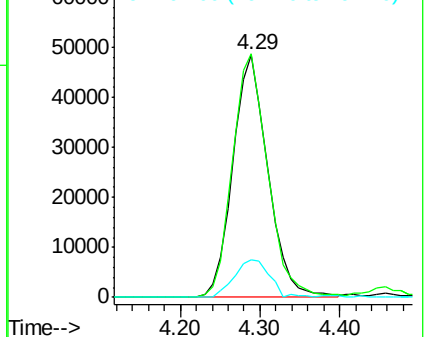
113 100

111 100.4 81.3 121.9

192 15.6 12.7 19.1



Abundance Ion 113.00 (112.70 to 113.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 22.04 ug/l

RT: 4.45 min Scan# 397

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

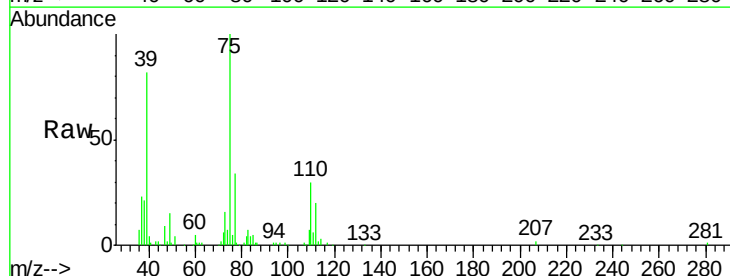
Tgt Ion: 75 Resp: 86116

Ion Ratio Lower Upper

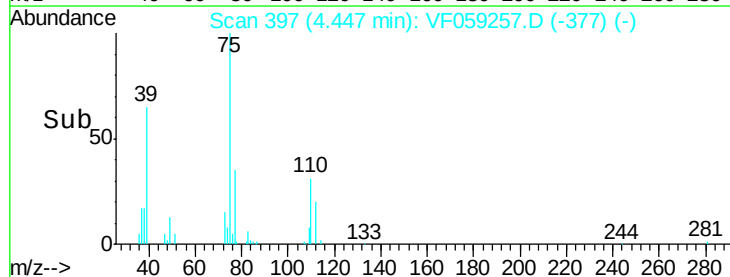
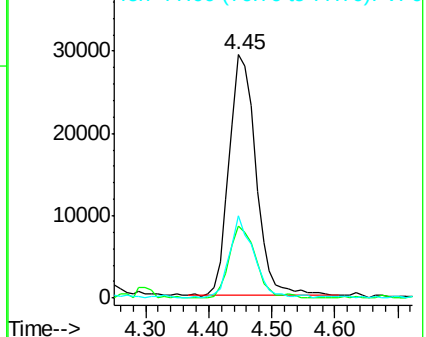
75 100

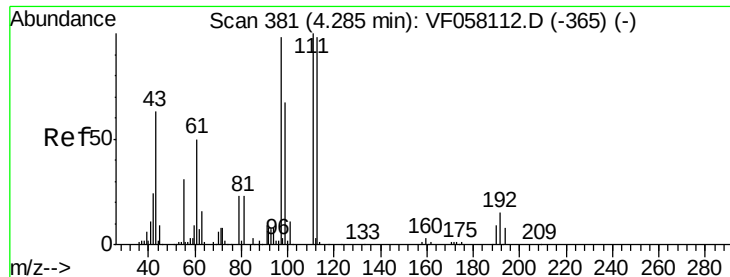
110 29.5 17.0 50.9

77 34.0 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VF0  
Ion 110.00 (109.70 to 110.70): V  
Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 20.51 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

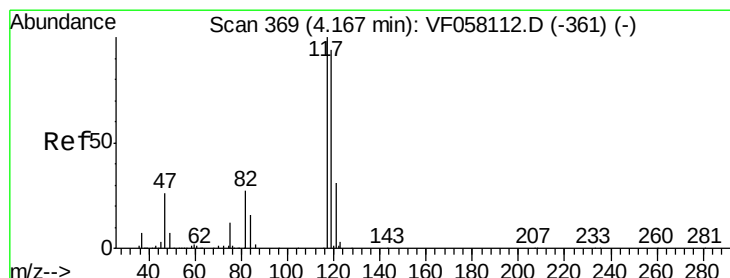
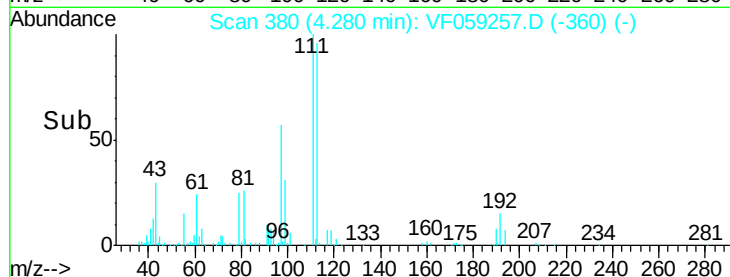
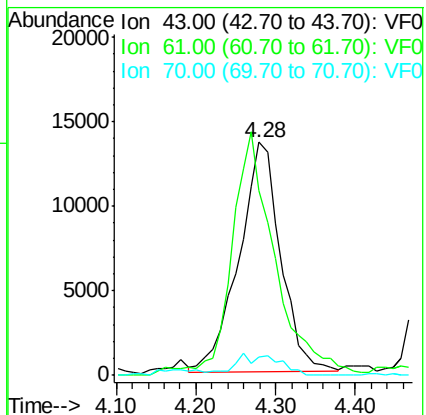
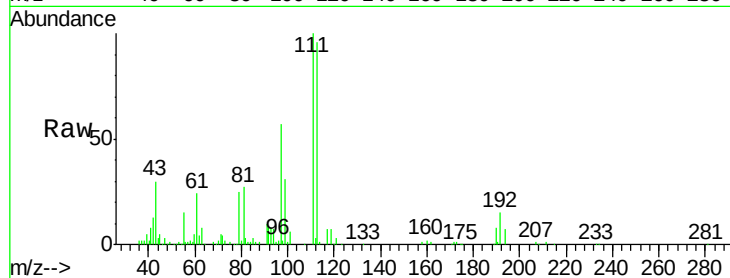
Tot Ion: 43 Resp: 49508

Ion Ratio Lower Upper

43 100

61 79.5 63.0 94.4

70 7.6 7.5 11.3



#38

Carbon Tetrachloride

Concen: 27.53 ug/l

RT: 4.16 min Scan# 368

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

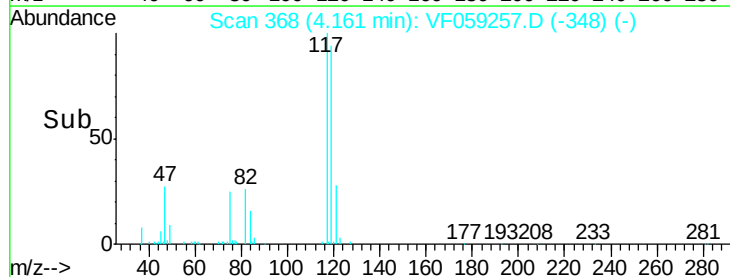
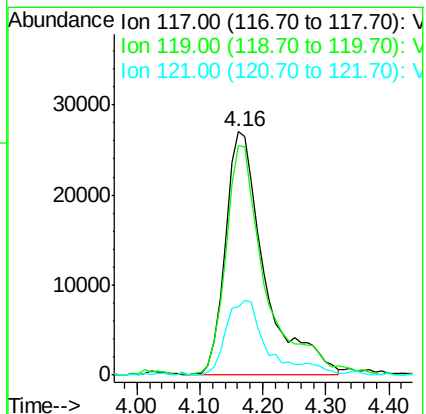
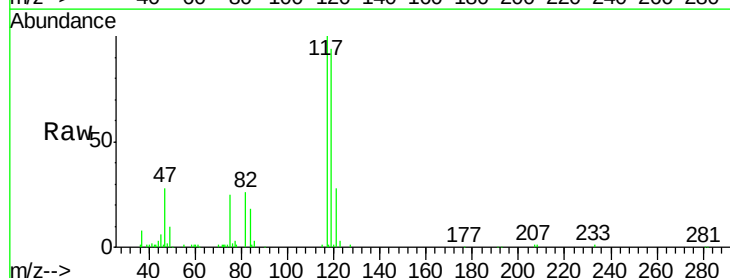
Tgt Ion: 117 Resp: 116567

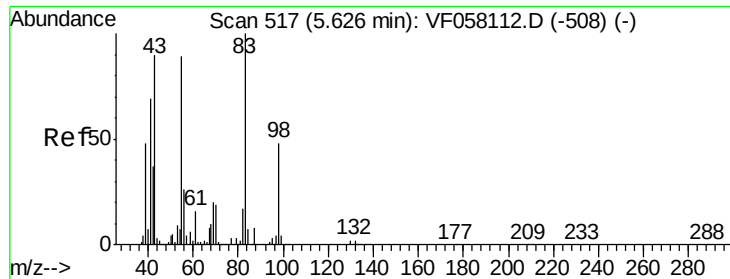
Ion Ratio Lower Upper

117 100

119 94.1 75.7 113.5

121 28.1 24.8 37.2

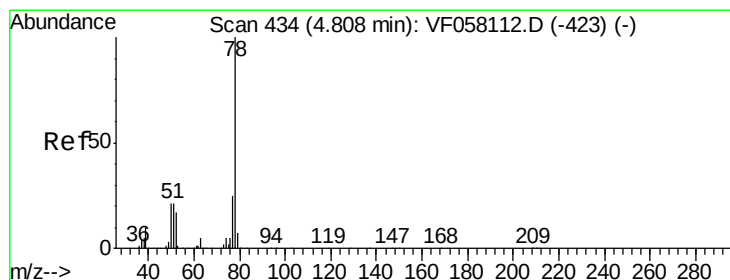
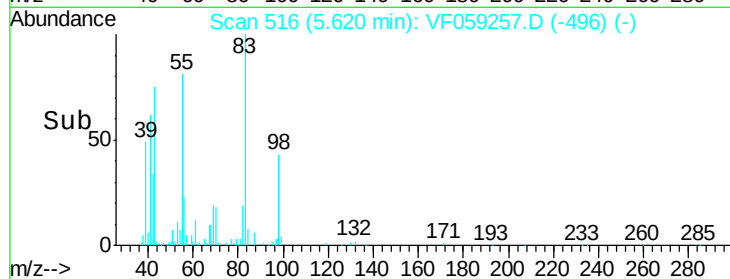
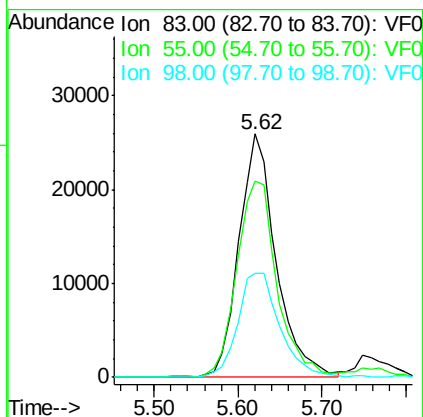
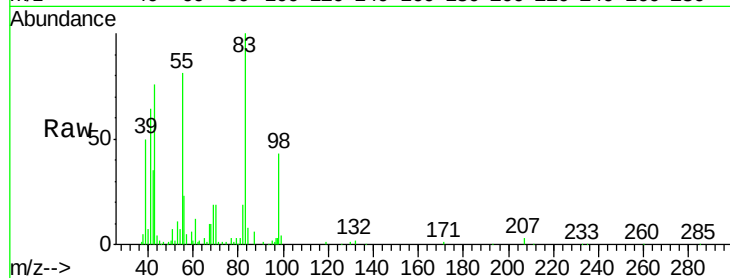




#39  
Methylvlcyclohexane  
Concen: 20.11 ug/l  
RT: 5.62 min Scan# 516  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

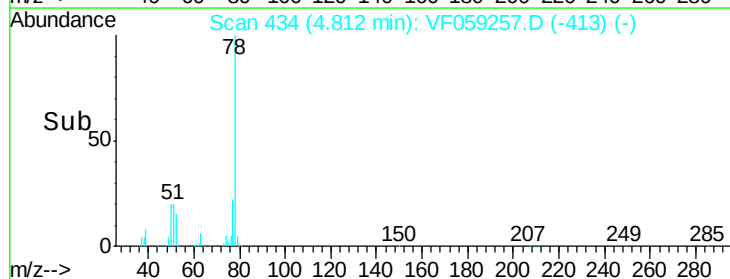
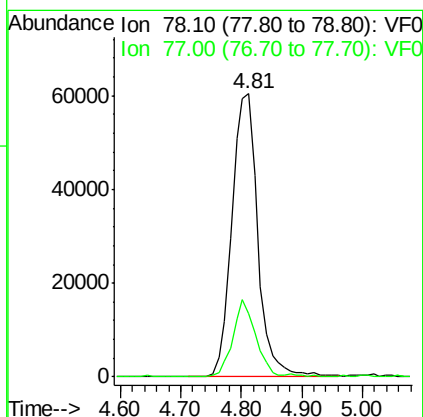
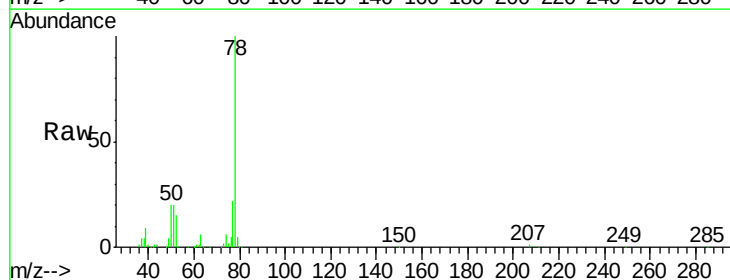
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 83 Resp: 80085  
Ion Ratio Lower Upper  
83 100  
55 80.8 71.0 106.4  
98 42.9 38.1 57.1

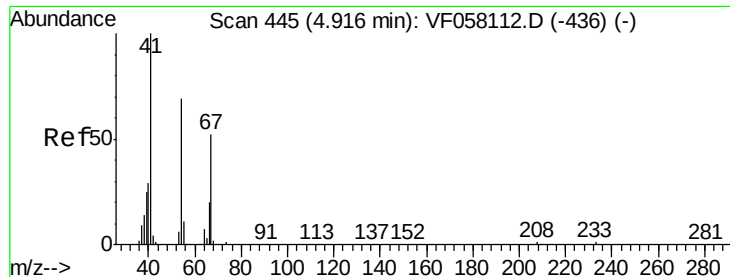


#40  
Benzene  
Concen: 19.87 ug/l  
RT: 4.81 min Scan# 434  
Delta R.T. 0.00 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

Tgt Ion: 78 Resp: 180200  
Ion Ratio Lower Upper  
78 100  
77 22.5 20.2 30.2







#41

Methacrylonitrile

Concen: 19.86 ug/l

RT: 4.92 min Scan# 445

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion: 41 Resp: 23551

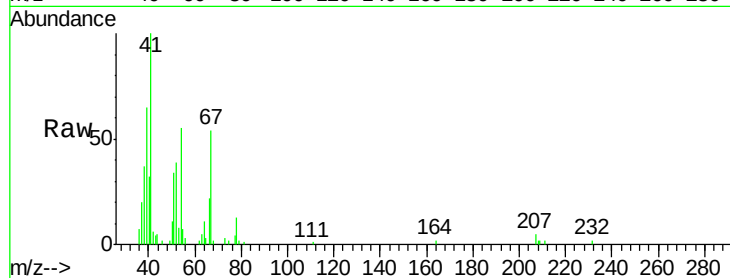
Ion Ratio Lower Upper

41 100

39 65.0 53.0 79.4

67 54.2 41.0 61.6

52 39.0 36.8 55.2

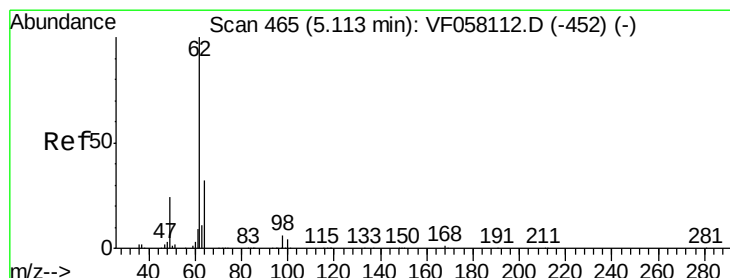
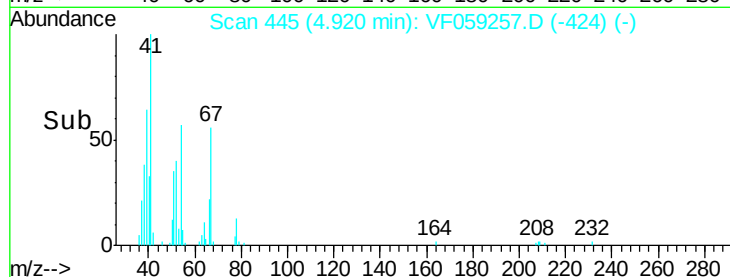
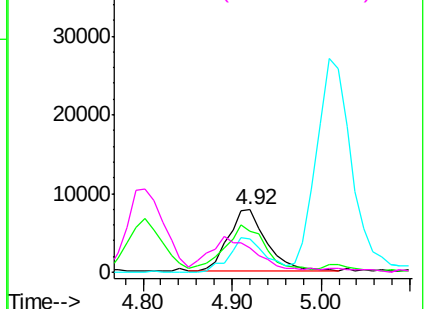


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 24.21 ug/l

RT: 5.11 min Scan# 464

Delta R.T. -0.01 min

Lab File: VF059257.D

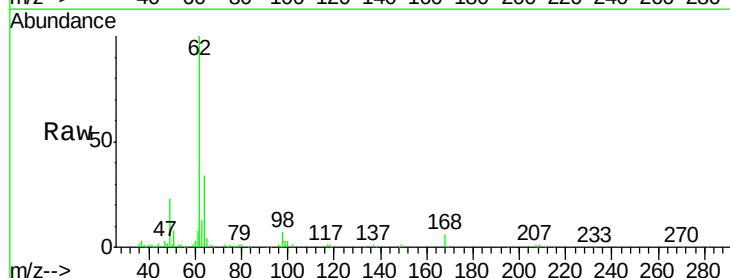
Acq: 21 Jun 2018 11:07

Tgt Ion: 62 Resp: 98480

Ion Ratio Lower Upper

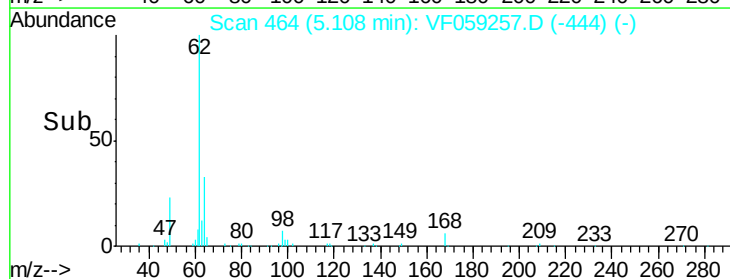
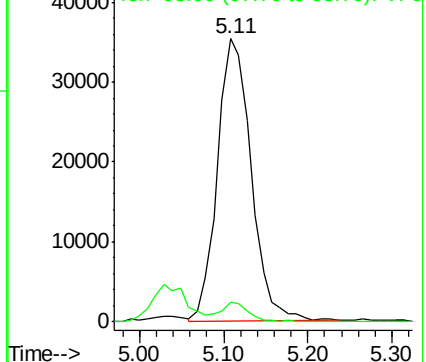
62 100

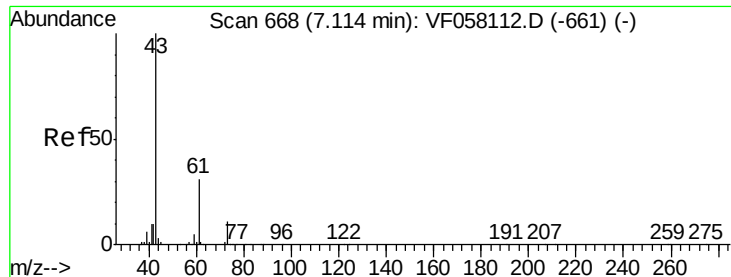
98 6.9 0.0 11.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 18.89 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

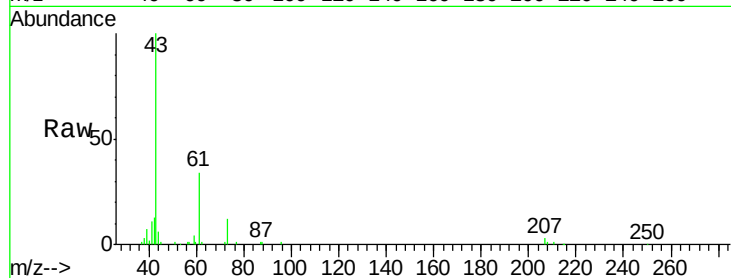
Tot Ion: 43 Resp: 61068

Ion Ratio Lower Upper

43 100

61 34.2 25.1 37.7

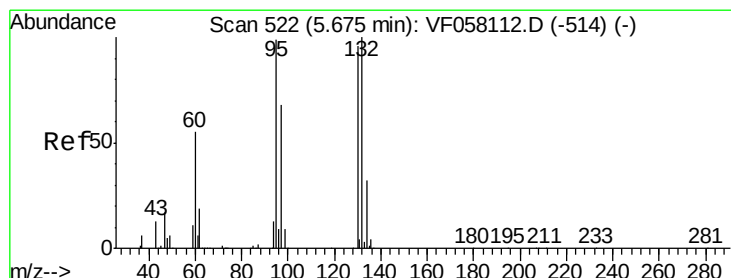
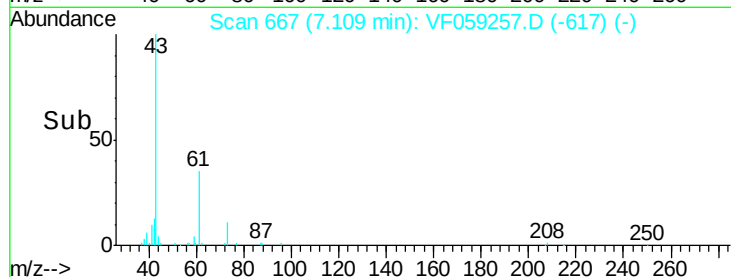
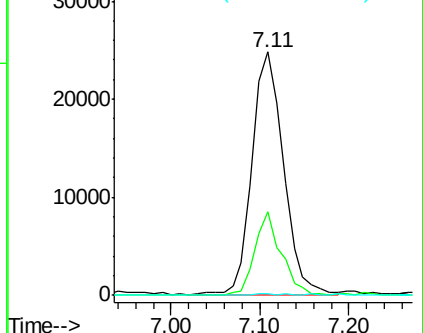
87 0.7 0.2 0.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 22.30 ug/l

RT: 5.67 min Scan# 521

Delta R.T. -0.01 min

Lab File: VF059257.D

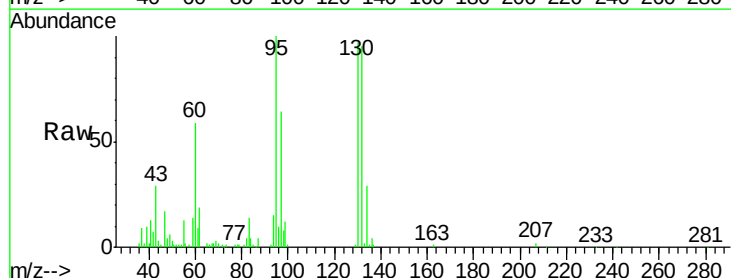
Acq: 21 Jun 2018 11:07

Tgt Ion:130 Resp: 63178

Ion Ratio Lower Upper

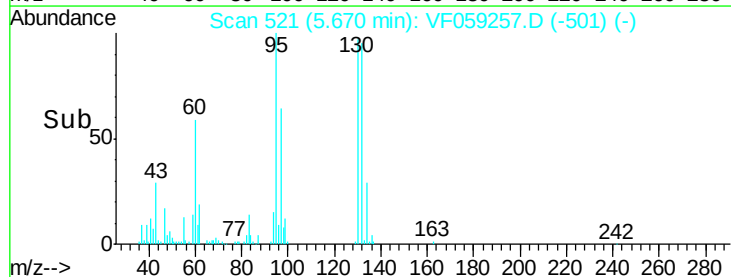
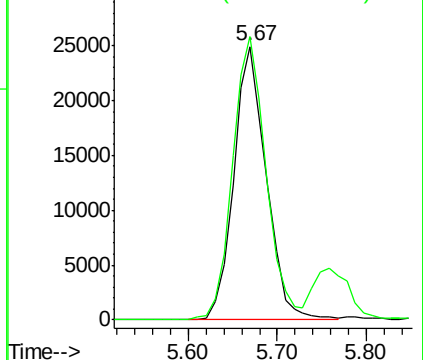
130 100

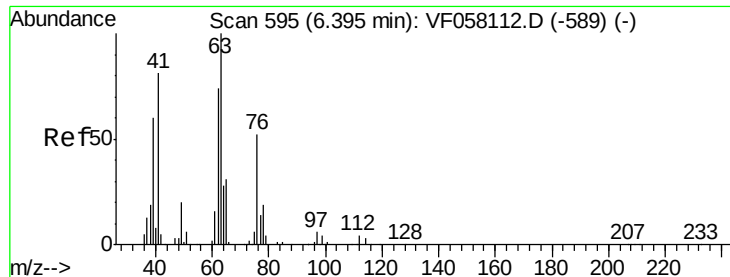
95 103.6 0.0 206.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 20.42 ug/l

RT: 6.40 min Scan# 595

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

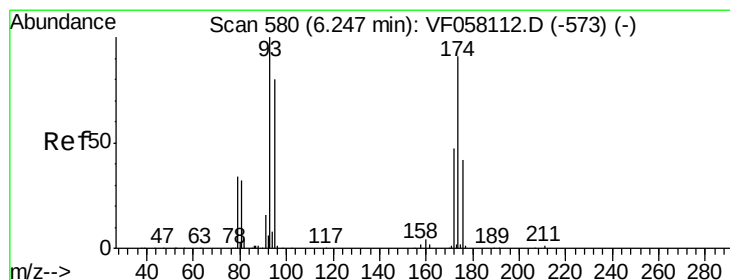
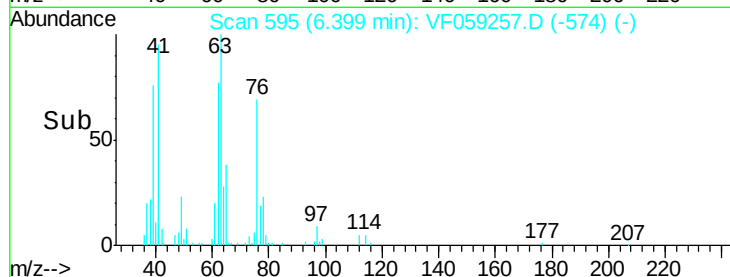
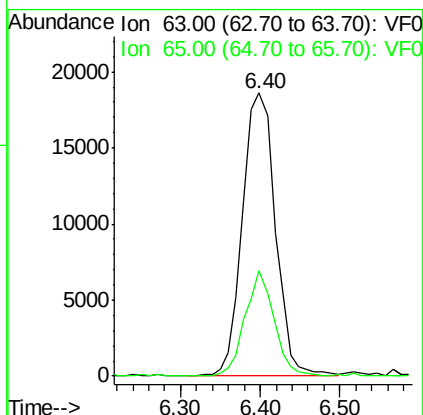
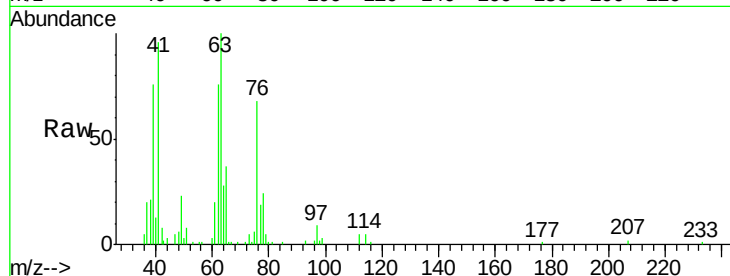
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 63 Resp: 53409

Ion Ratio Lower Upper

63 100

65 37.4 24.6 37.0#



#46

Dibromomethane

Concen: 22.07 ug/l

RT: 6.25 min Scan# 580

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

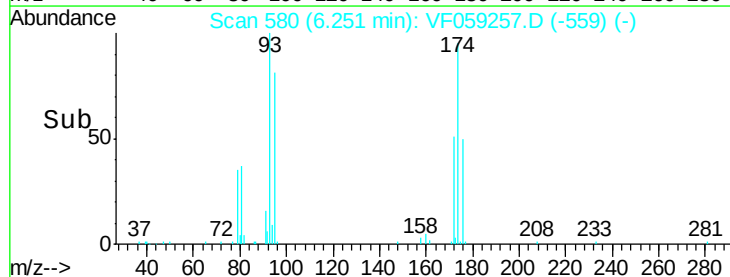
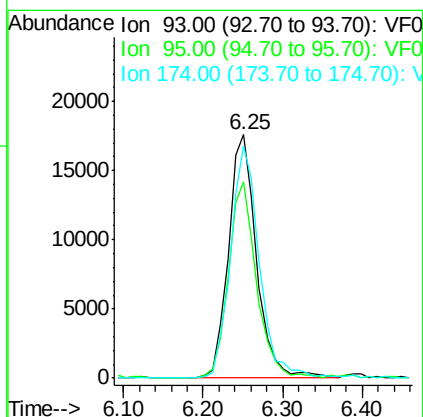
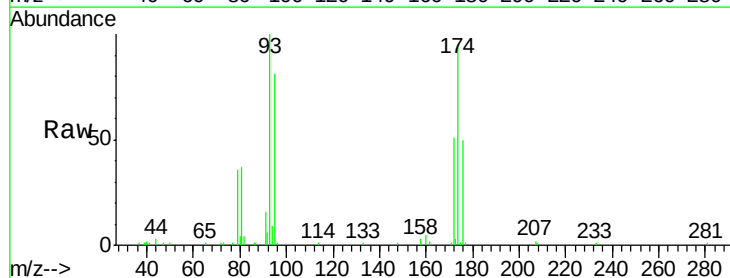
Tgt Ion: 93 Resp: 43430

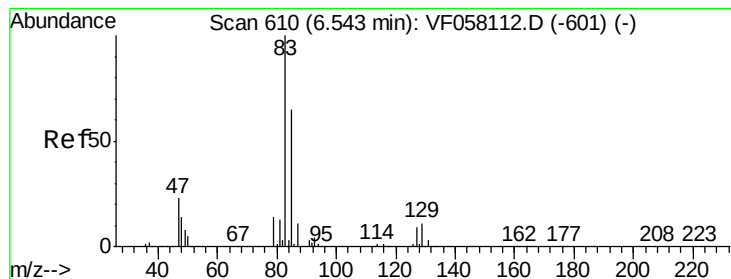
Ion Ratio Lower Upper

93 100

95 80.8 64.2 96.4

174 95.2 72.7 109.1





#47

Bromodichloromethane

Concen: 23.55 ug/l

RT: 6.55 min Scan# 610

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :  
MSVOA\_F  
ClientSampleId :

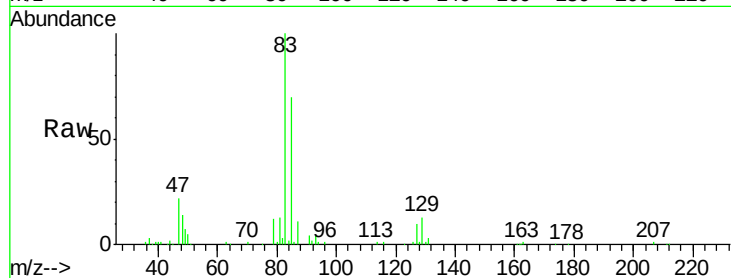
Tot Ion: 83 Resp: 105401

Ion Ratio Lower Upper

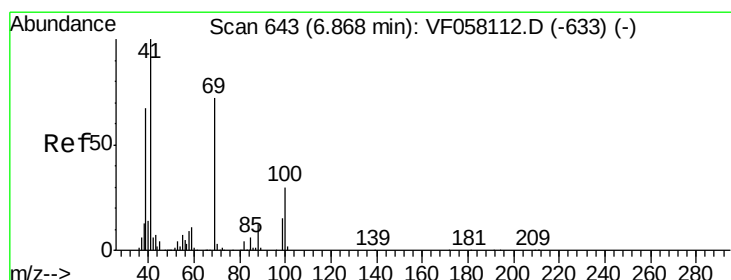
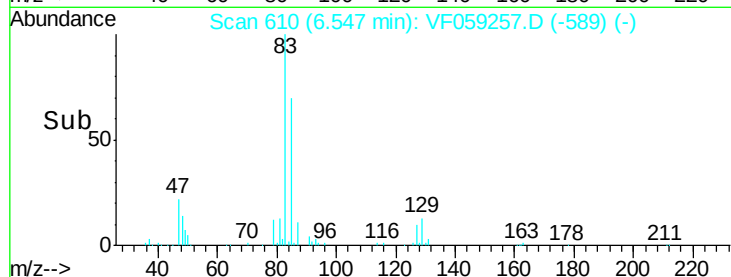
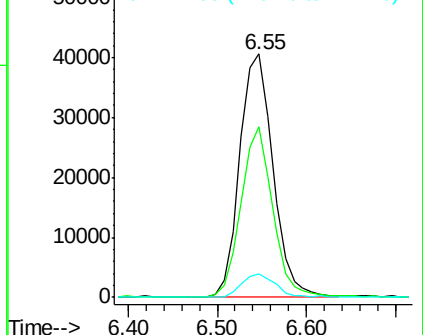
83 100

85 70.0 51.6 77.4

127 9.6 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 85.00 (84.70 to 85.70): VF0  
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 18.88 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

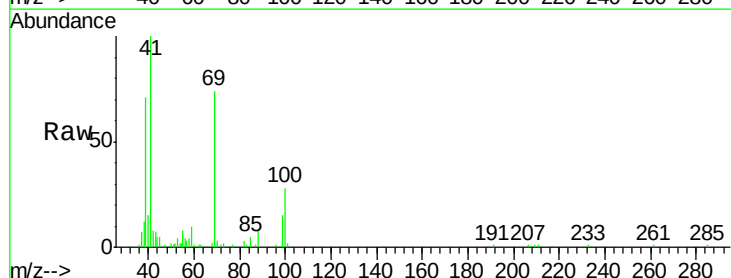
Tgt Ion: 41 Resp: 37627

Ion Ratio Lower Upper

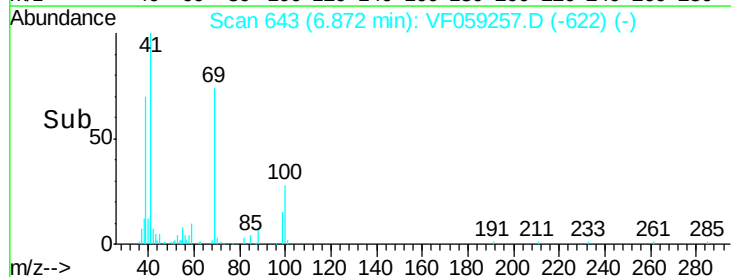
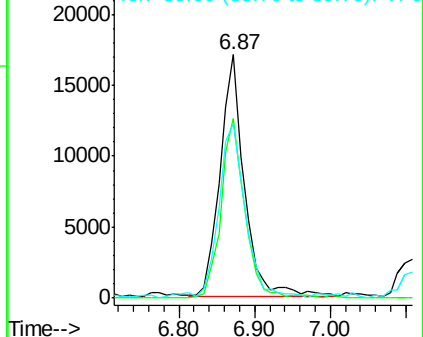
41 100

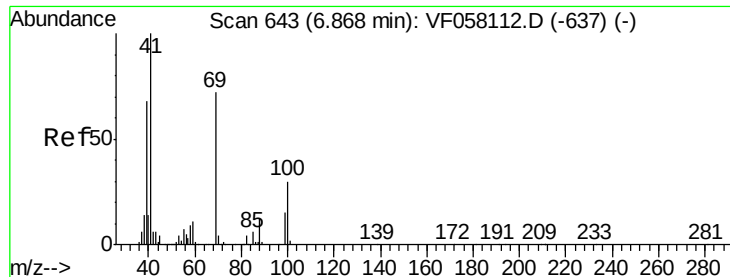
69 73.8 57.2 85.8

39 71.4 54.3 81.5



Abundance Ion 41.00 (40.70 to 41.70): VF0  
Ion 69.00 (68.70 to 69.70): VF0  
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 330.65 ug/l

RT: 6.86 min Scan# 642

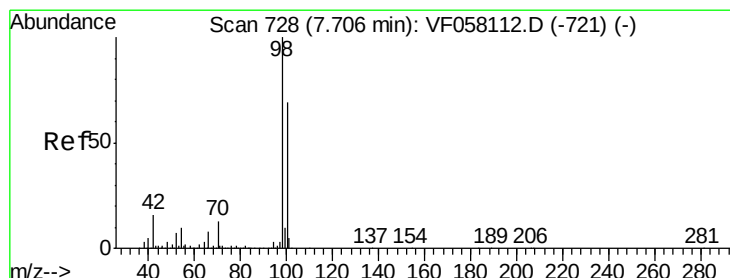
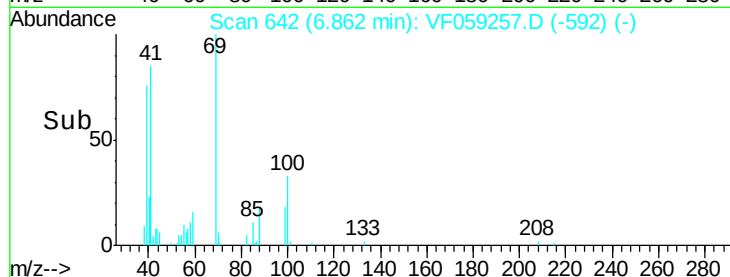
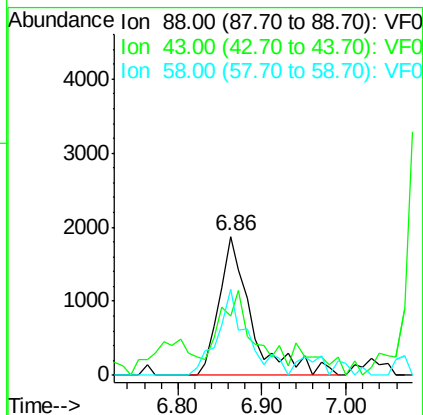
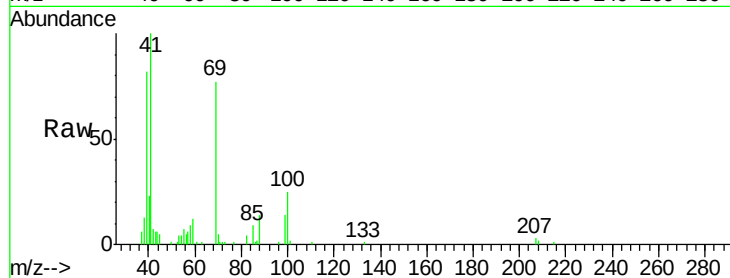
Delta R.T. -0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 88 Resp: 5027  
Ion Ratio Lower Upper  
88 100  
43 42.7 47.8 71.8#  
58 61.9 59.4 89.0



#50

Toluene-d8

Concen: 46.02 ug/l

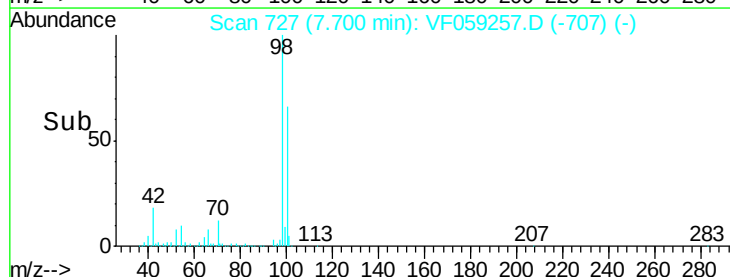
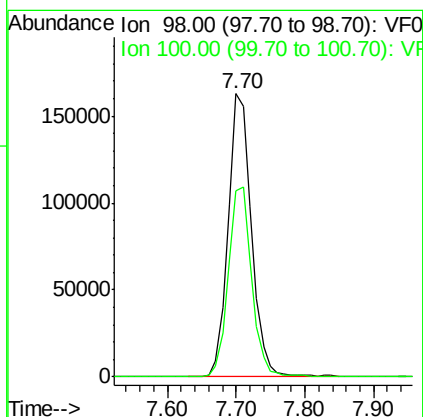
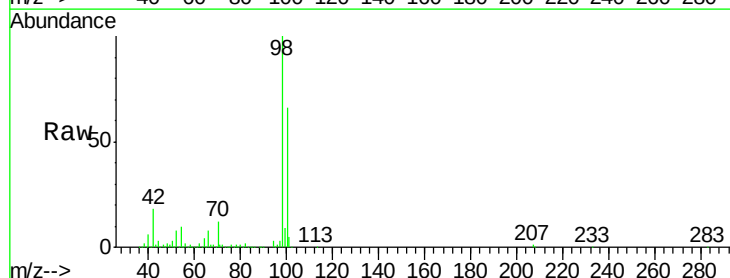
RT: 7.70 min Scan# 727

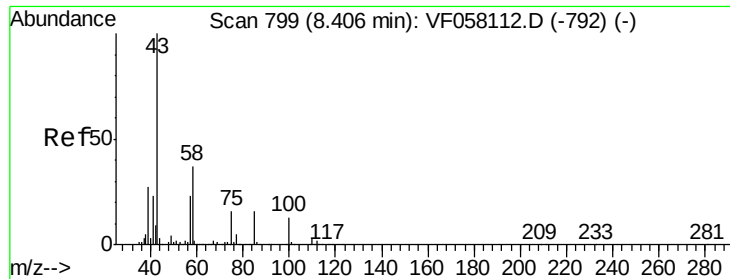
Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Tgt Ion: 98 Resp: 382375  
Ion Ratio Lower Upper  
98 100  
100 65.8 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 107.54 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

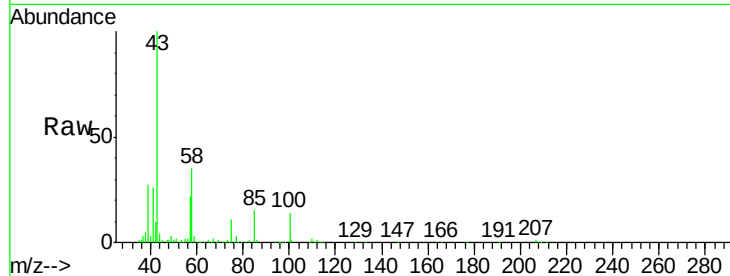
ClientSampled :

Tot Ion: 43 Resp: 238306

Ion Ratio Lower Upper

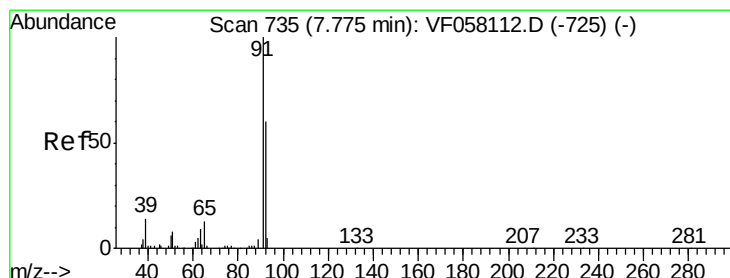
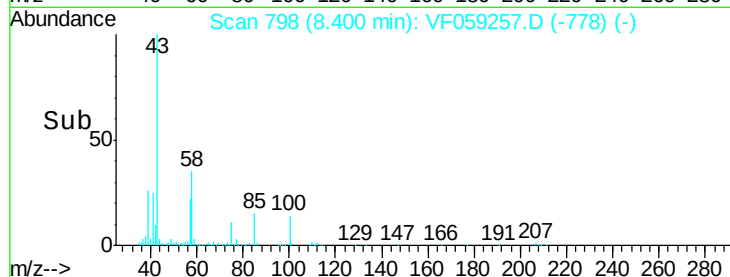
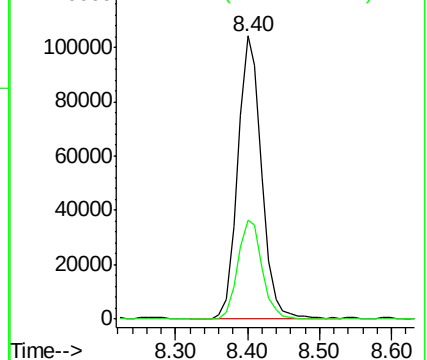
43 100

58 35.0 29.4 44.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.16 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059257.D

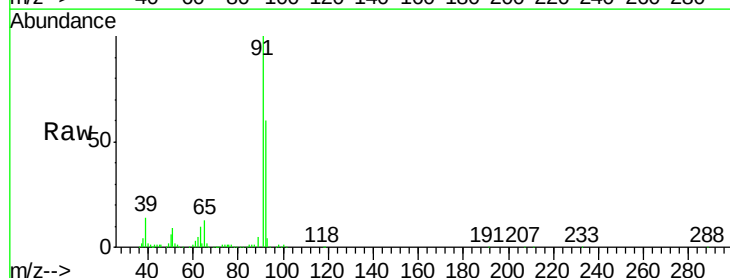
Acq: 21 Jun 2018 11:07

Tgt Ion: 92 Resp: 138252

Ion Ratio Lower Upper

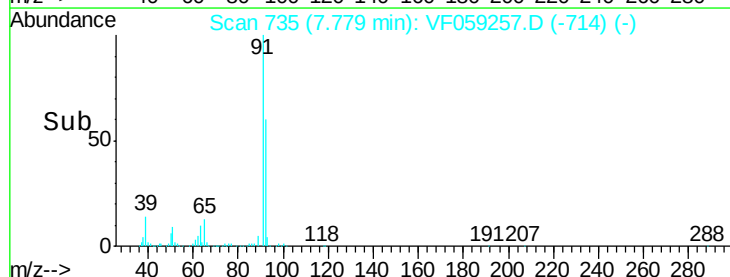
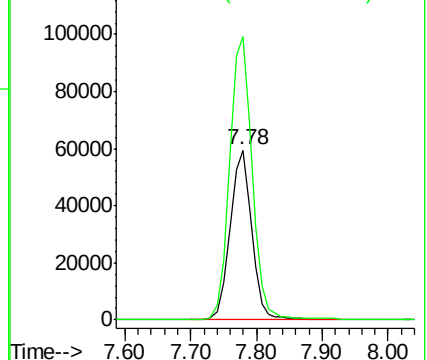
92 100

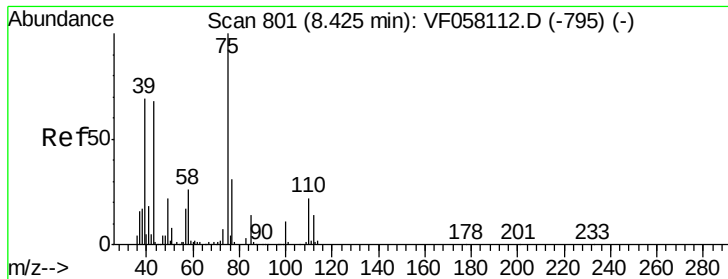
91 166.9 132.9 199.3



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 22.39 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

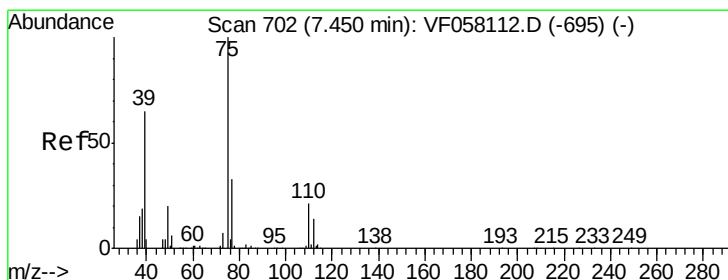
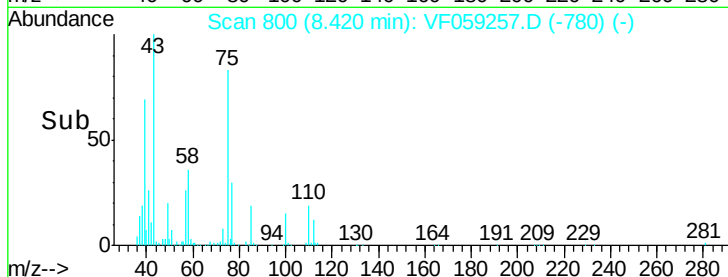
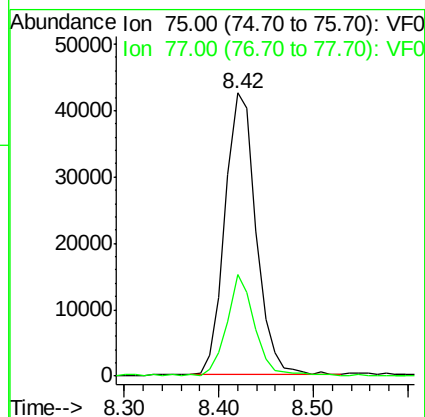
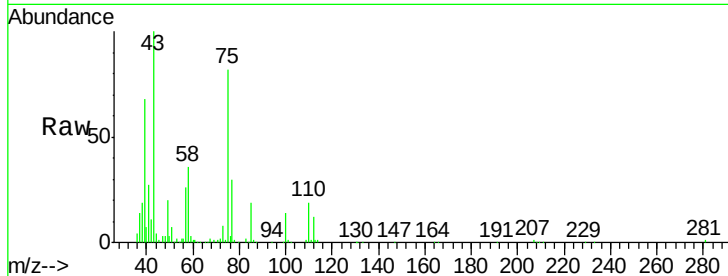
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 75 Resp: 97064

Ion Ratio Lower Upper

75 100

77 36.0 25.1 37.7



#54

cis-1,3-Dichloropropene

Concen: 21.36 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

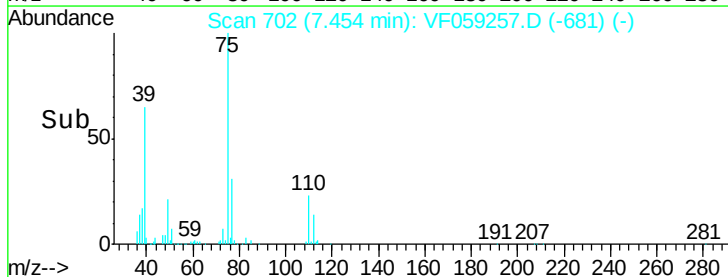
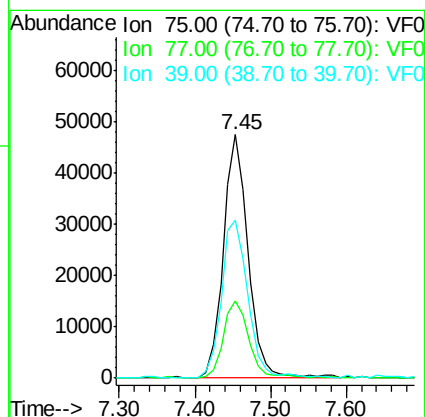
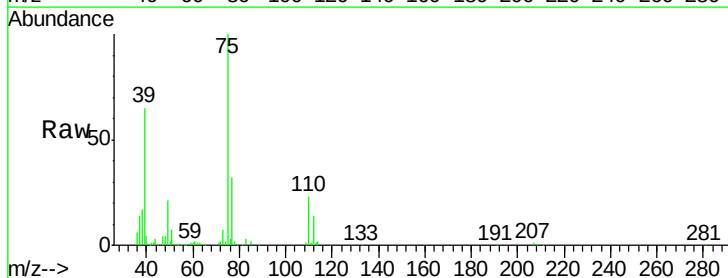
Tgt Ion: 75 Resp: 106351

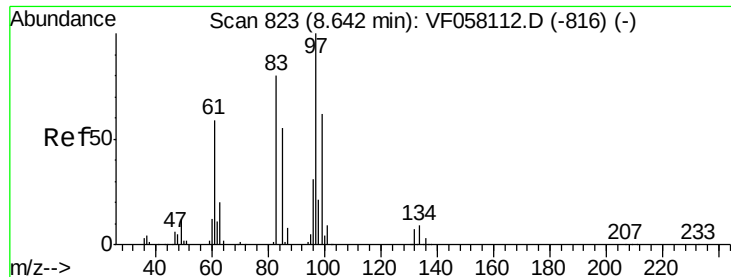
Ion Ratio Lower Upper

75 100

77 31.8 26.3 39.5

39 64.9 52.1 78.1





#55

1,1,2-Trichloroethane

Concen: 22.78 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion: 97 Resp: 53926

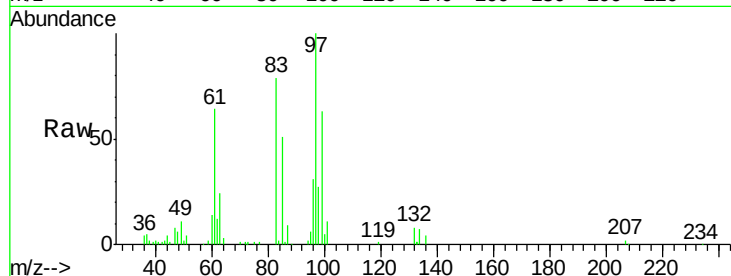
Ion Ratio Lower Upper

97 100

83 79.2 64.3 96.5

85 50.8 43.8 65.8

99 62.7 49.8 74.8

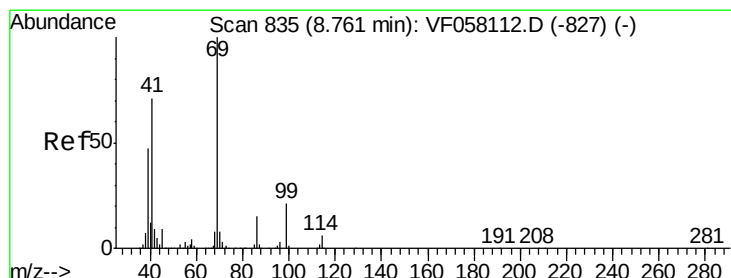
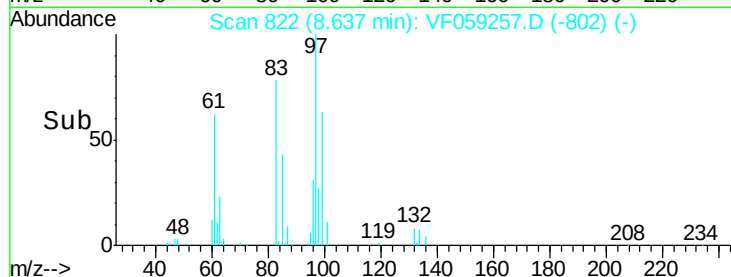
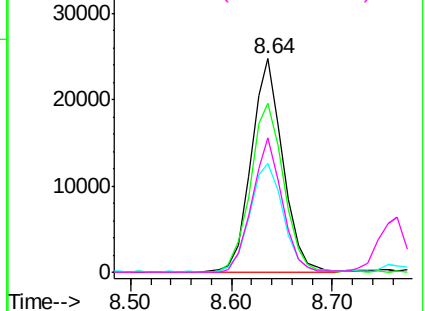


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 19.77 ug/l

RT: 8.75 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

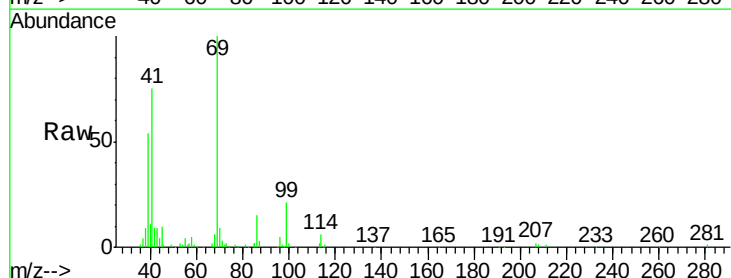
Tgt Ion: 69 Resp: 58995

Ion Ratio Lower Upper

69 100

41 74.6 56.9 85.3

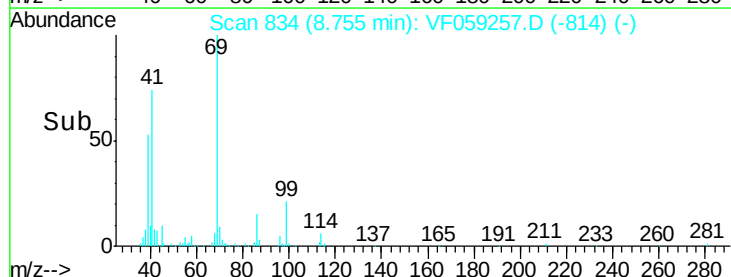
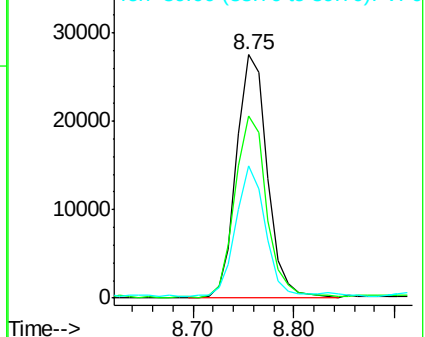
39 54.4 38.0 57.0



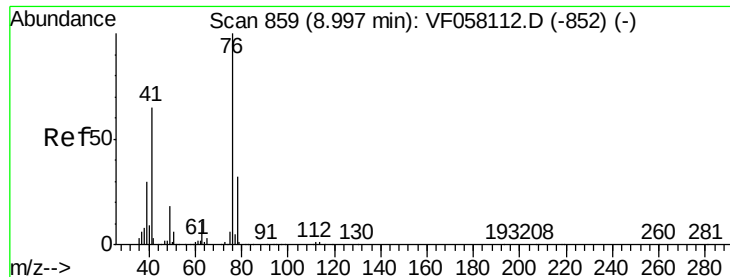
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0







#57

1,3-Dichloropropane

Concen: 21.97 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

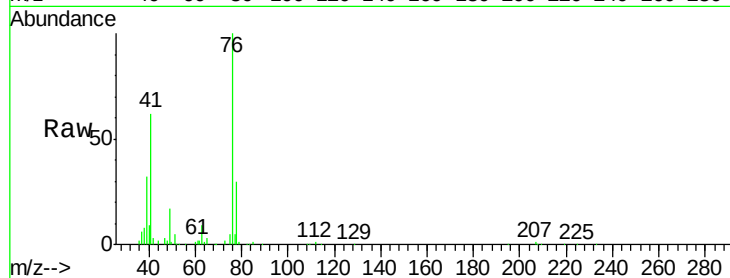
ClientSampleId :

Tot Ion: 76 Resp: 88959

Ion Ratio Lower Upper

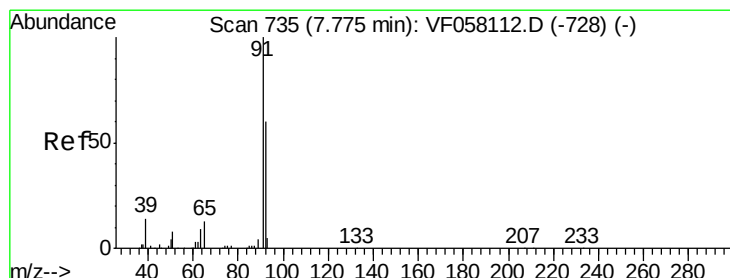
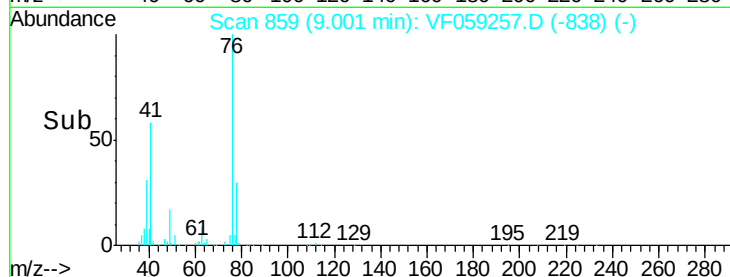
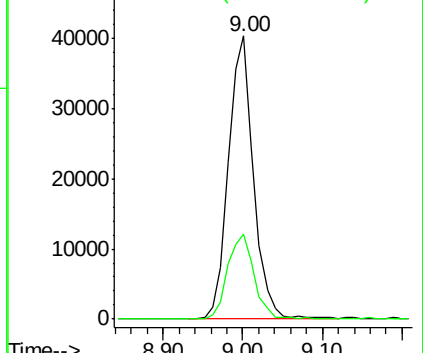
76 100

78 30.2 25.8 38.6



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 113.28 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059257.D

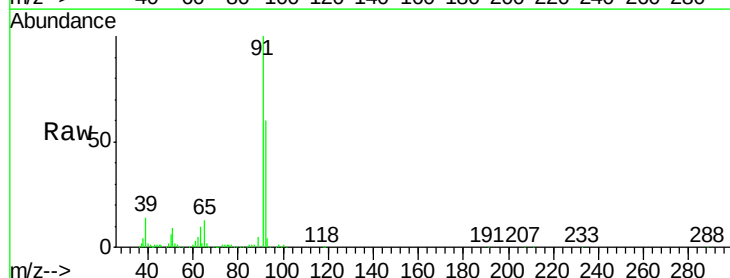
Acq: 21 Jun 2018 11:07

Tgt Ion: 63 Resp: 24168

Ion Ratio Lower Upper

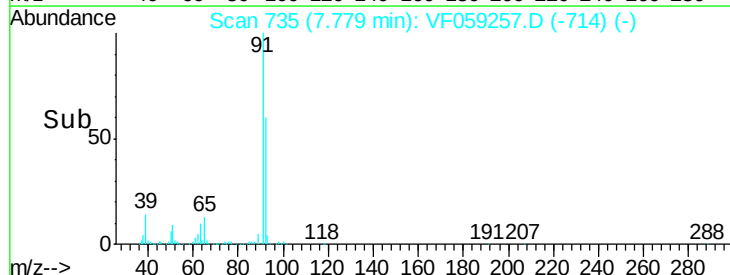
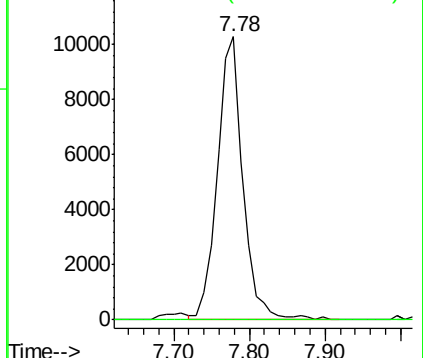
63 100

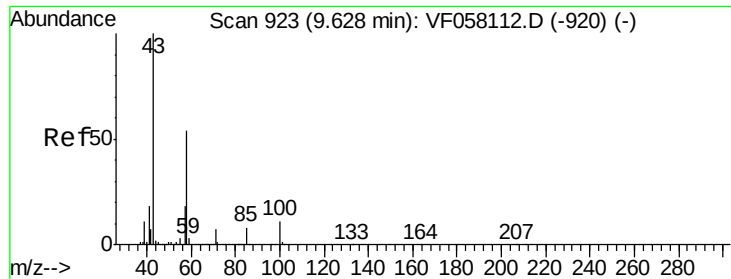
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

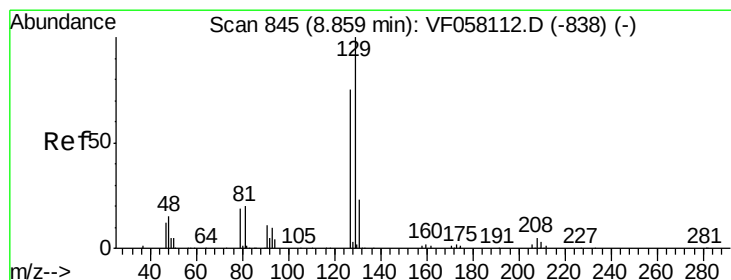
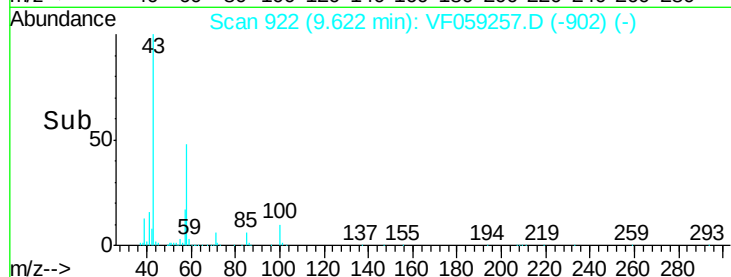
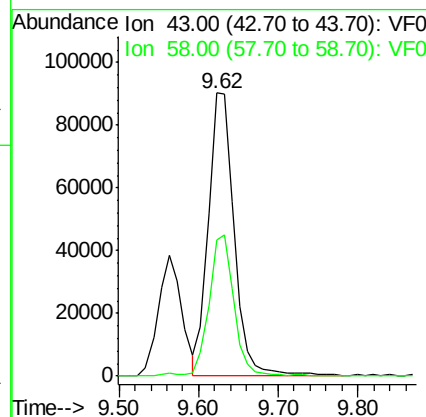
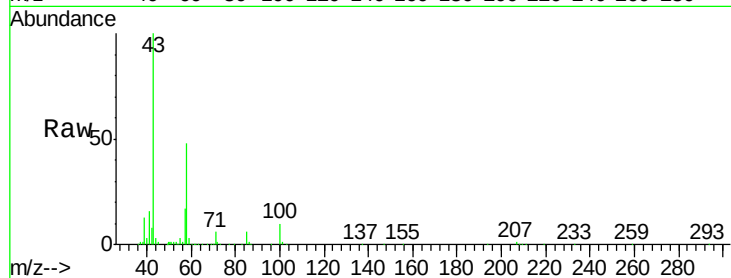




#59  
2-Hexanone  
Concen: 116.02 ug/l  
RT: 9.62 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

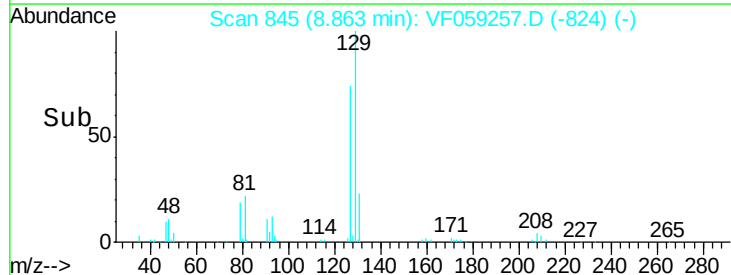
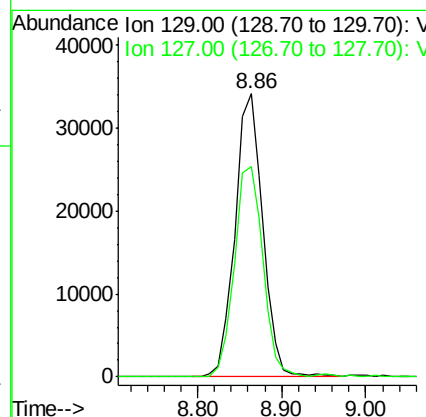
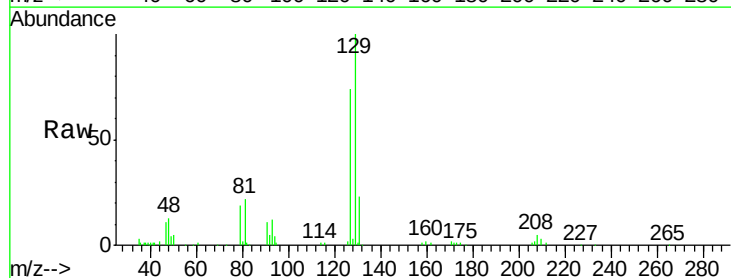
Instrument :  
MSVOA\_F  
ClientSampled :

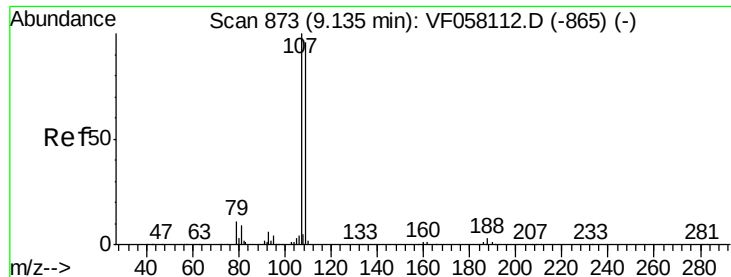
Tot Ion: 43 Resp: 203375  
Ion Ratio Lower Upper  
43 100  
58 48.0 26.3 78.8



#60  
Dibromochloromethane  
Concen: 23.04 ug/l  
RT: 8.86 min Scan# 845  
Delta R.T. 0.00 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

Tgt Ion: 129 Resp: 78378  
Ion Ratio Lower Upper  
129 100  
127 74.2 37.6 112.9





#61

1,2-Dibromoethane

Concen: 21.68 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

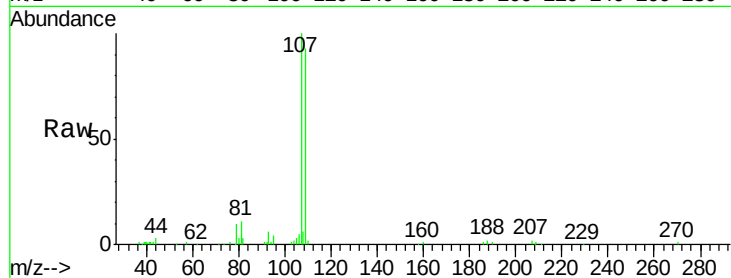
ClientSampleId :

Tot Ion:107 Resp: 59639

Ion Ratio Lower Upper

107 100

109 92.6 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.13

25000

20000

15000

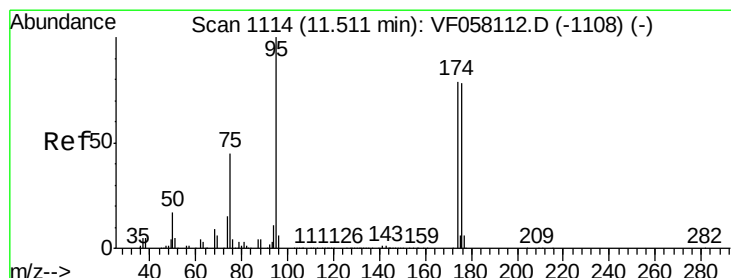
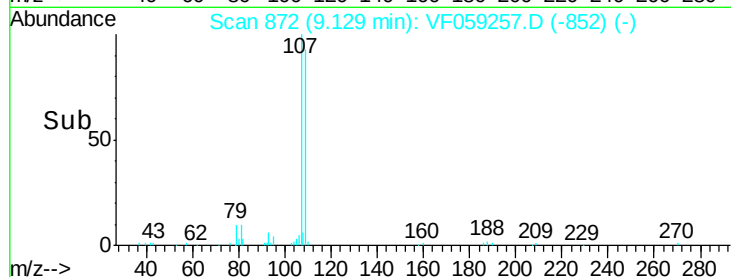
10000

5000

0

Time-->

9.00 9.10 9.20



#62

4-Bromofluorobenzene

Concen: 49.07 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

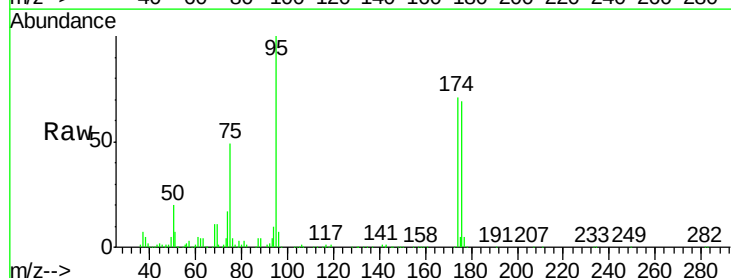
Tgt Ion: 95 Resp: 209118

Ion Ratio Lower Upper

95 100

174 71.0 0.0 157.8

176 68.6 0.0 155.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

150000

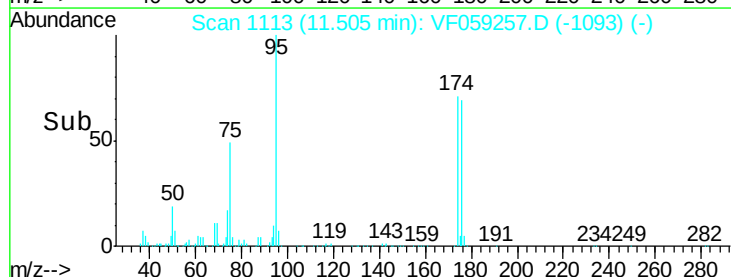
100000

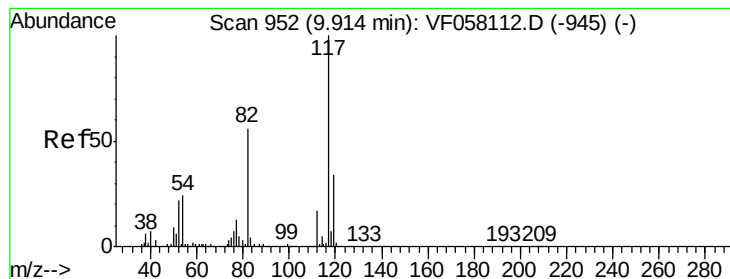
50000

0

Time-->

11.40 11.50 11.60 11.70





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

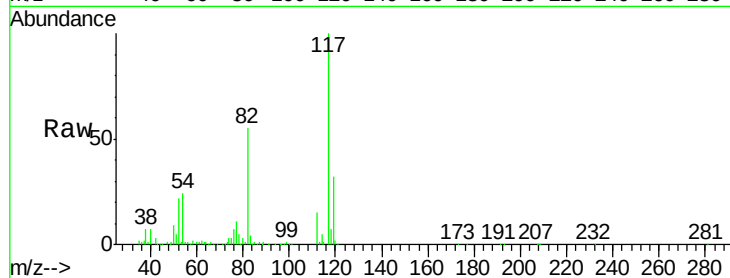
Tot Ion:117 Resp: 399828

Ion Ratio Lower Upper

117 100

82 54.9 45.2 67.8

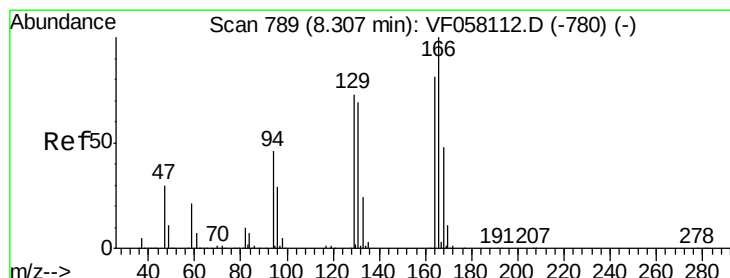
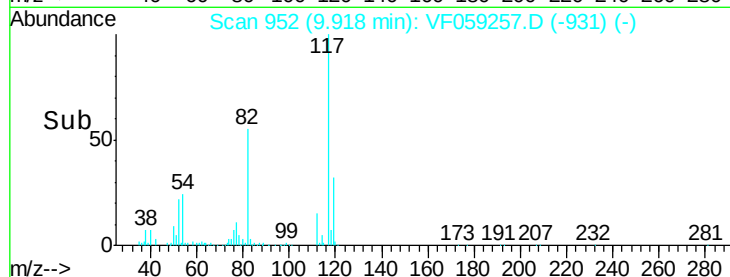
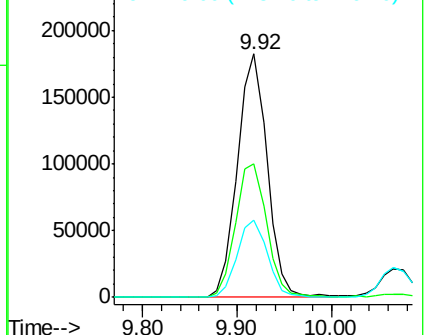
119 31.6 27.5 41.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 20.93 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Tgt Ion:164 Resp: 61371

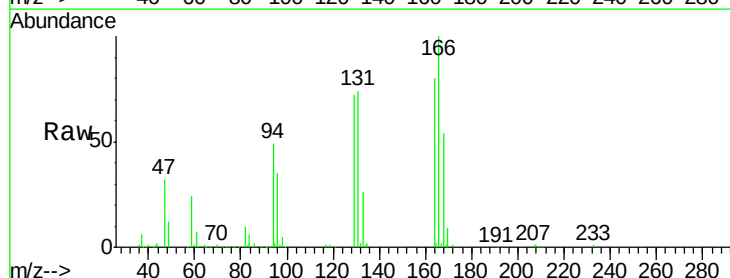
Ion Ratio Lower Upper

164 100

166 124.5 98.2 147.4

129 89.8 71.6 107.4

131 92.6 67.8 101.6

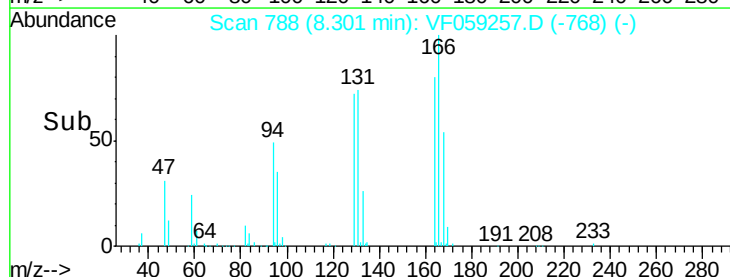
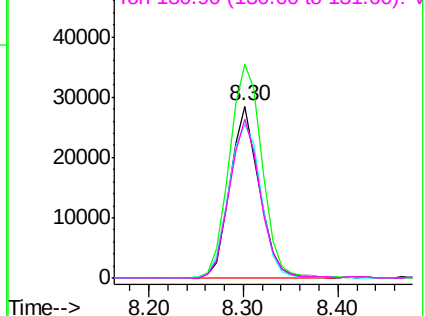


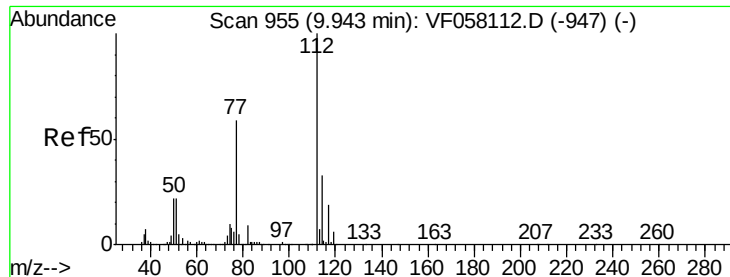
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

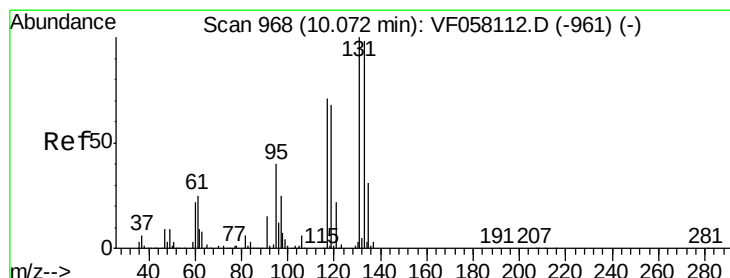
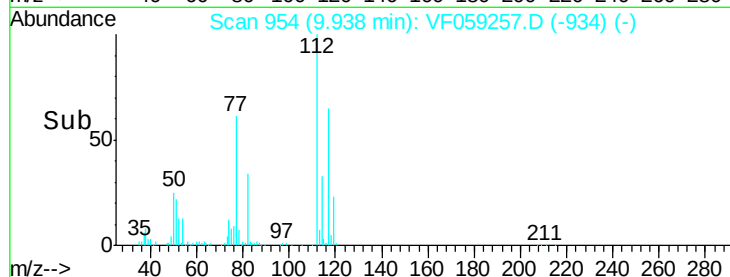
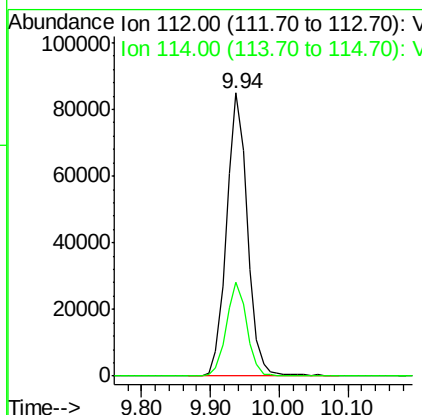
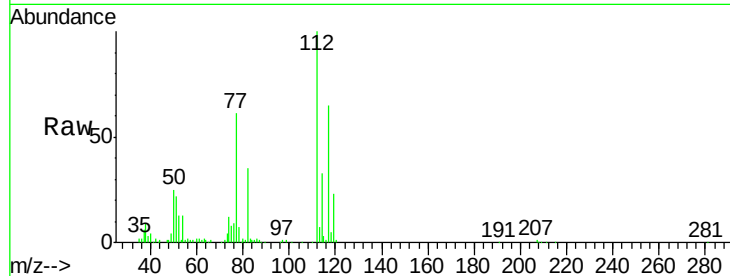




#65  
Chlorobenzene  
Concen: 22.59 ug/l  
RT: 9.94 min Scan# 954  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

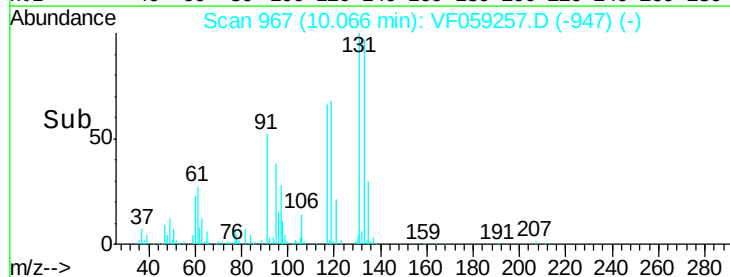
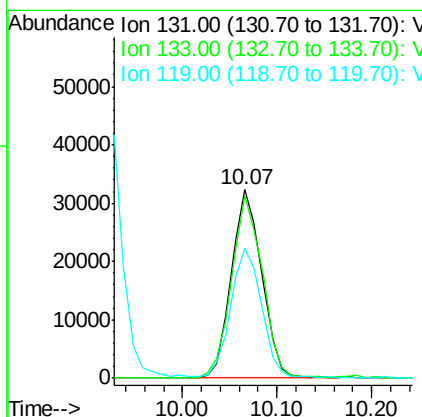
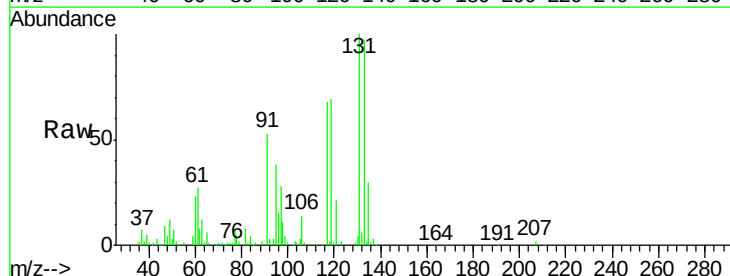
Instrument :  
MSVOA\_F  
ClientSampleId :

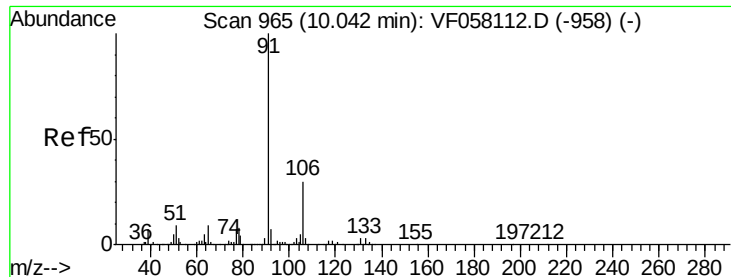
Tot Ion:112 Resp: 178859  
Ion Ratio Lower Upper  
112 100  
114 33.1 26.2 39.4



#66  
1,1,1,2-Tetrachloroethane  
Concen: 22.86 ug/l  
RT: 10.07 min Scan# 967  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

Tgt Ion:131 Resp: 72005  
Ion Ratio Lower Upper  
131 100  
133 96.9 49.1 147.4  
119 69.1 34.3 102.8





#67

Ethyl Benzene

Concen: 22.80 ug/l

RT: 10.04 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

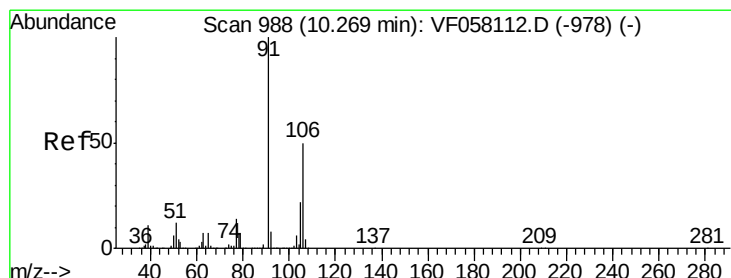
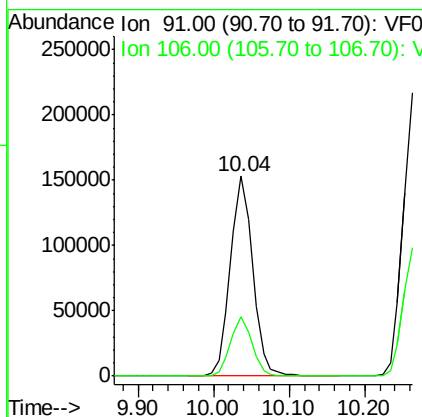
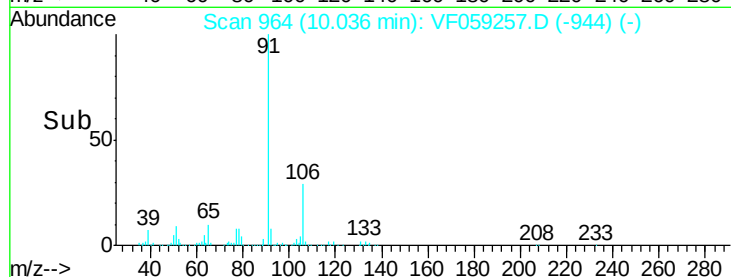
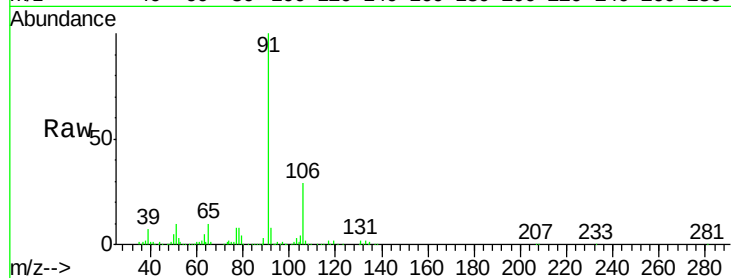
ClientSampleId :

Tot Ion: 91 Resp: 313710

Ion Ratio Lower Upper

91 100

106 29.5 24.2 36.4



#68

m/p-Xylenes

Concen: 41.48 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF059257.D

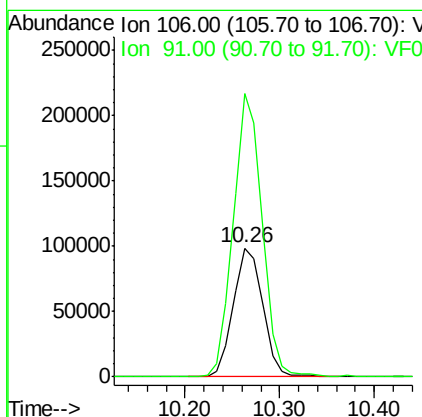
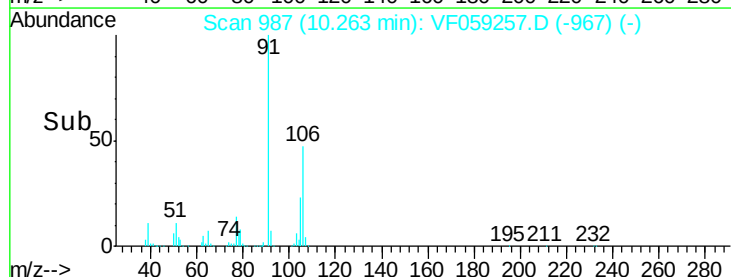
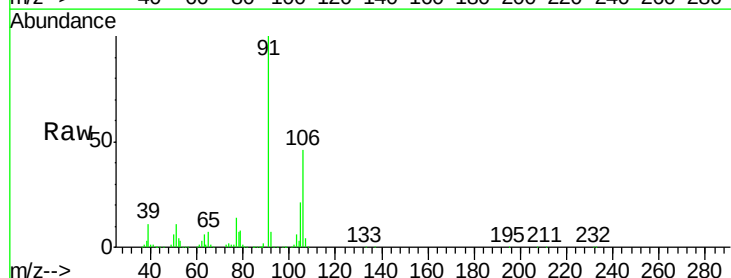
Acq: 21 Jun 2018 11:07

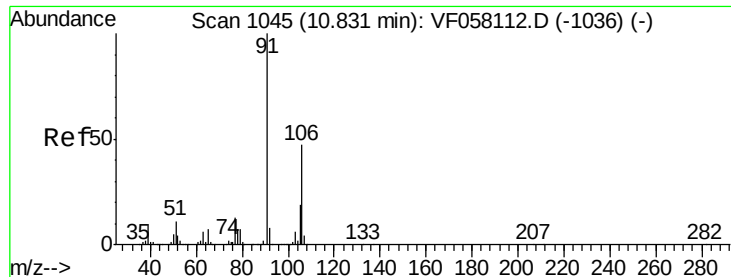
Tgt Ion: 106 Resp: 213633

Ion Ratio Lower Upper

106 100

91 219.5 160.7 241.1

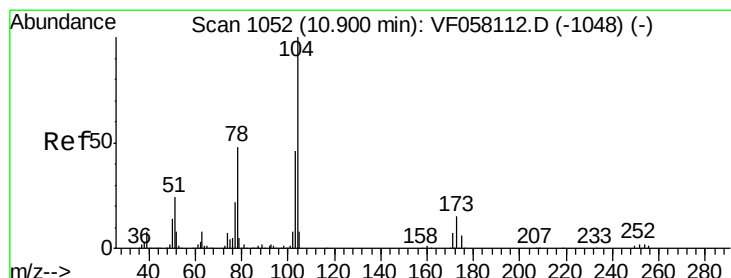
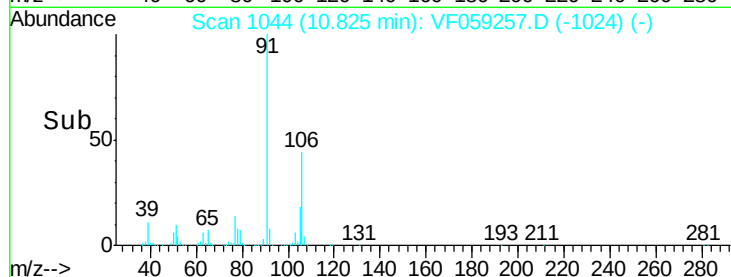
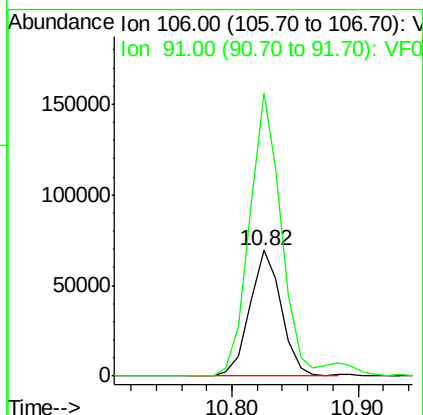
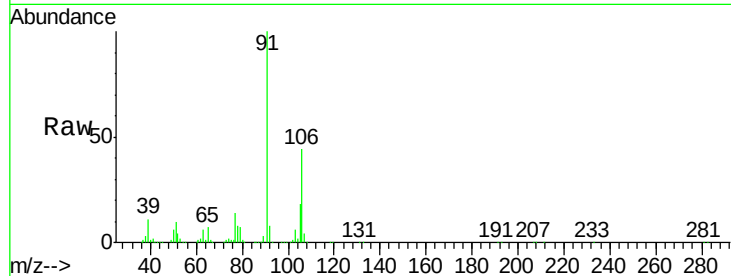




#69  
o-Xylene  
Concen: 21.78 ug/l  
RT: 10.82 min Scan# 1044  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

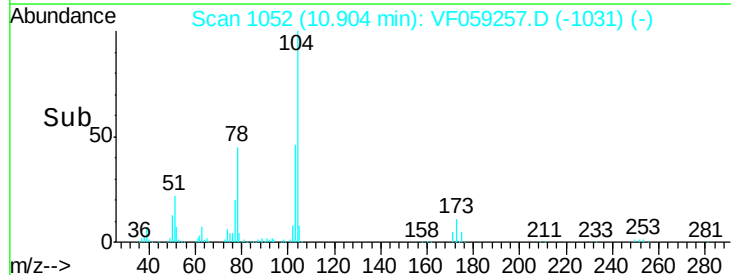
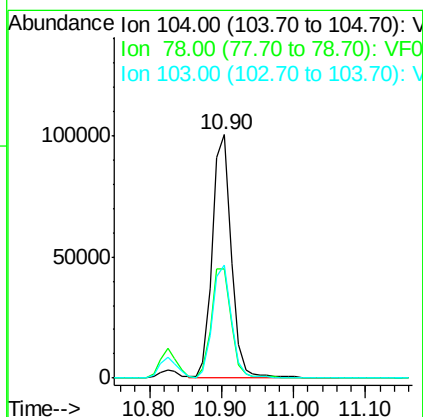
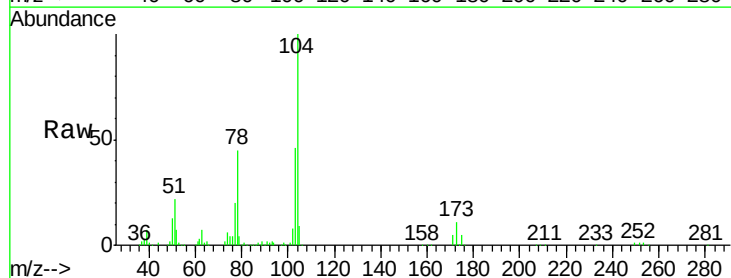
Instrument :  
MSVOA\_F  
ClientSampleId :

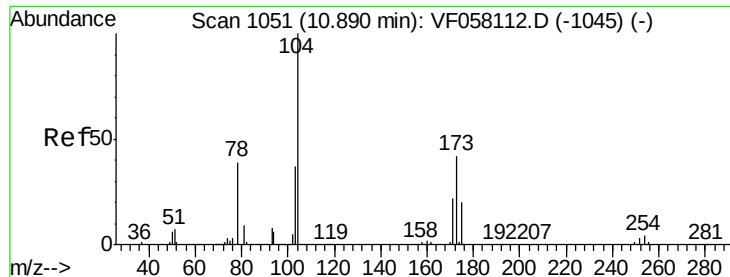
Tot Ion:106 Resp: 121245  
Ion Ratio Lower Upper  
106 100  
91 225.9 107.0 321.0



#70  
Styrene  
Concen: 21.45 ug/l  
RT: 10.90 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

Tgt Ion:104 Resp: 180681  
Ion Ratio Lower Upper  
104 100  
78 44.7 38.4 57.6  
103 46.2 37.0 55.6





#71

Bromoform

Concen: 22.91 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

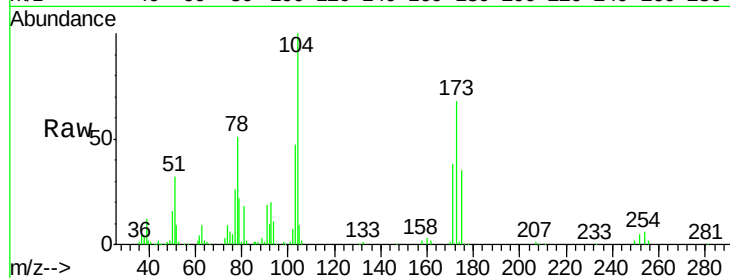
Tot Ion:173 Resp: 49005

Ion Ratio Lower Upper

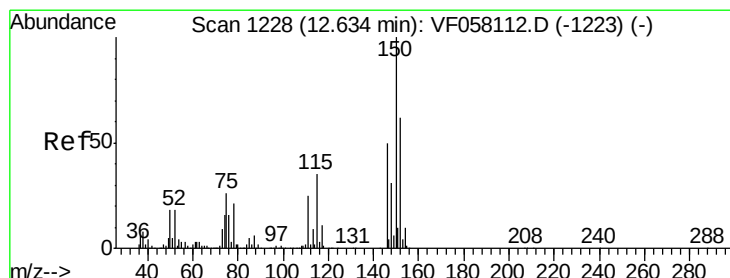
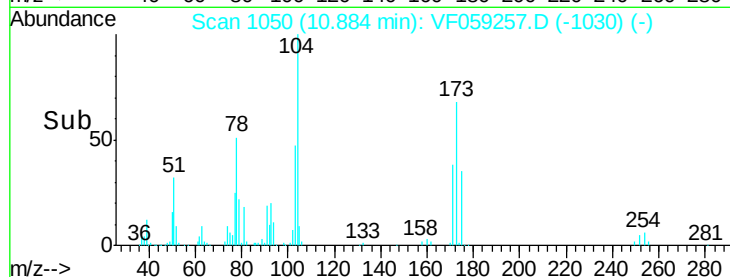
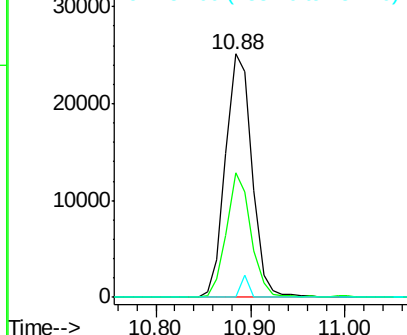
173 100

175 50.6 24.6 74.0

254 0.0 7.8 11.8#



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

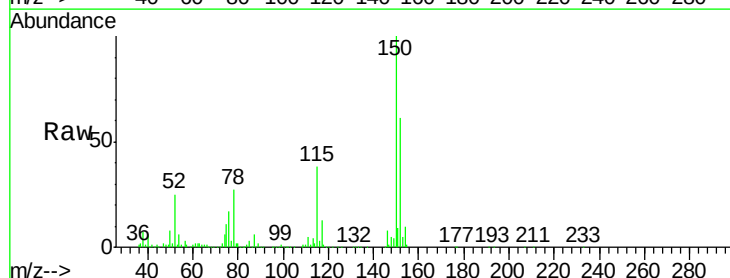
Tgt Ion:152 Resp: 253651

Ion Ratio Lower Upper

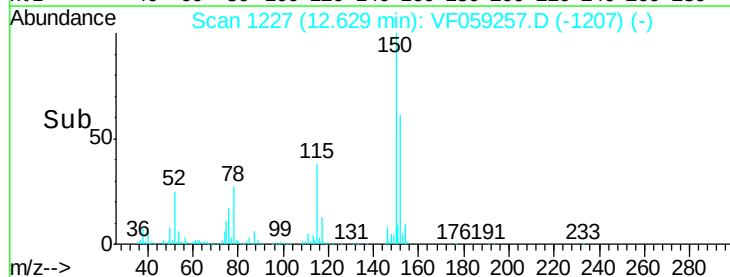
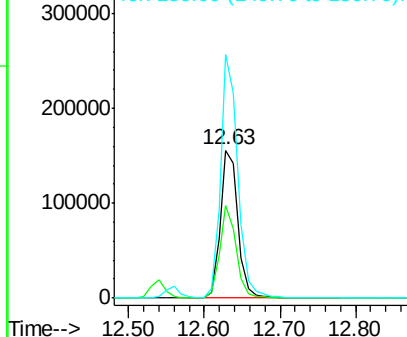
152 100

115 62.4 28.5 85.5

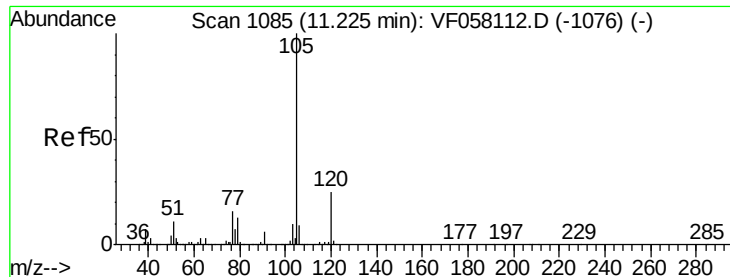
150 164.4 0.0 323.8



Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V







#73

Isopropylbenzene

Concen: 20.86 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

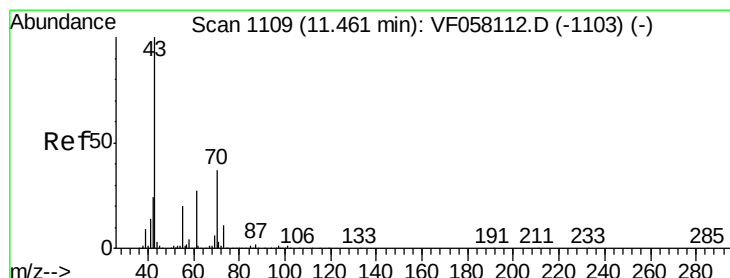
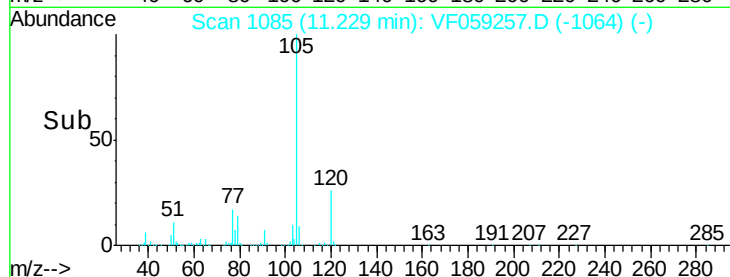
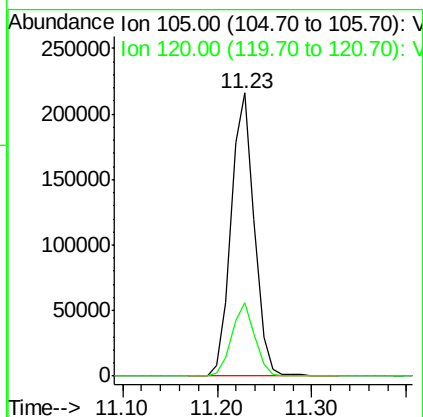
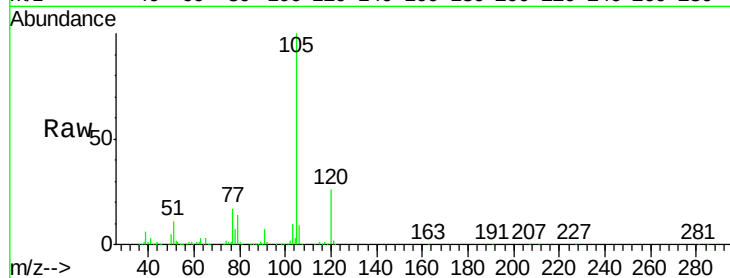
ClientSampleId :

Tot Ion:105 Resp: 366402

Ion Ratio Lower Upper

105 100

120 26.1 12.7 38.1



#74

N-ethyl acetate

Concen: 18.94 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Tgt Ion: 43 Resp: 118792

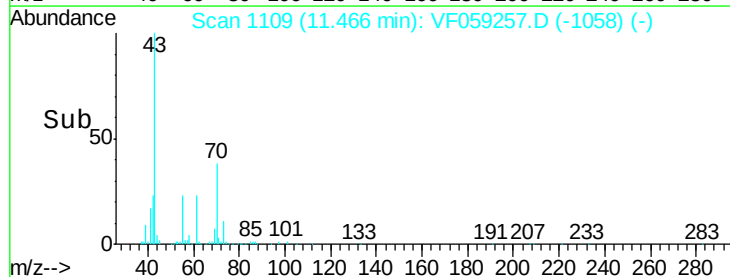
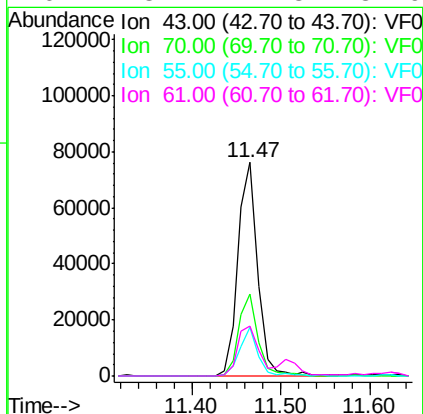
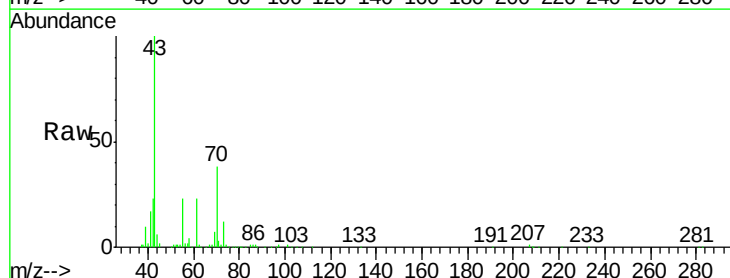
Ion Ratio Lower Upper

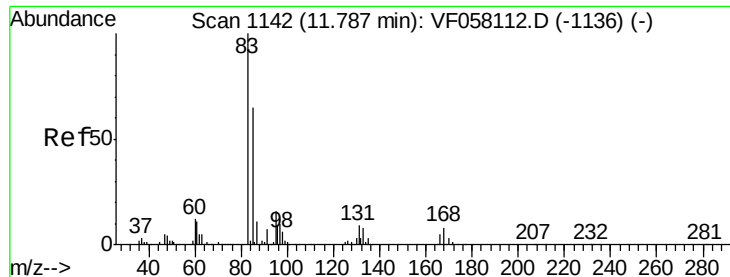
43 100

70 38.2 29.2 43.8

55 22.7 15.8 23.6

61 23.4 21.3 31.9





#75

1,1,2,2-Tetrachloroethane

Concen: 19.97 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

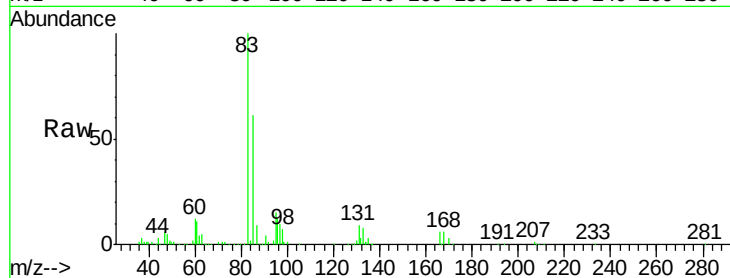
Tot Ion: 83 Resp: 83140

Ion Ratio Lower Upper

83 100

131 9.2 4.5 13.7

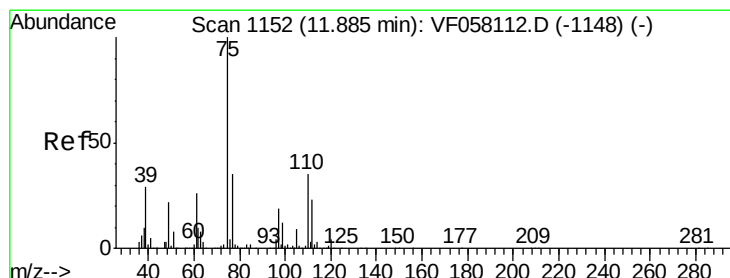
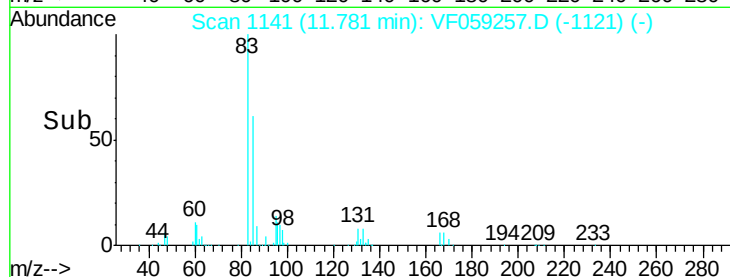
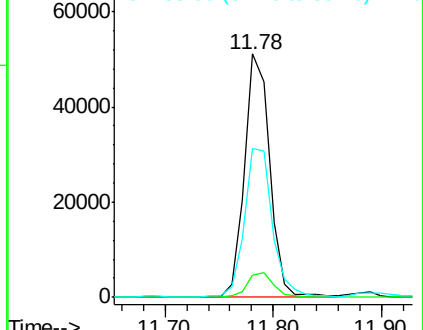
85 61.4 32.8 98.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 20.41 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF059257.D

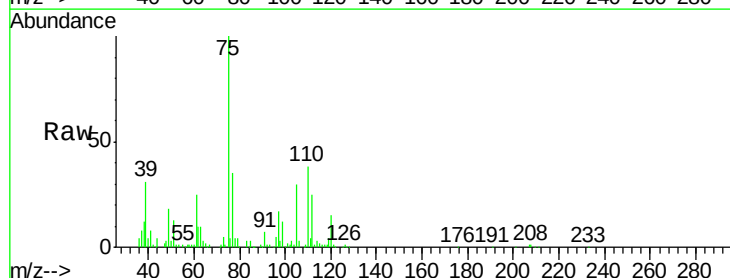
Acq: 21 Jun 2018 11:07

Tgt Ion: 75 Resp: 62761

Ion Ratio Lower Upper

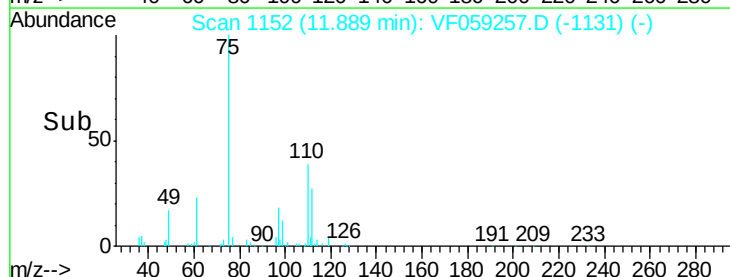
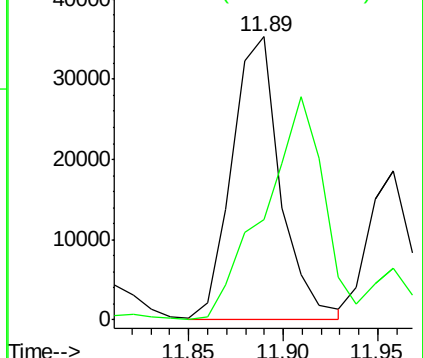
75 100

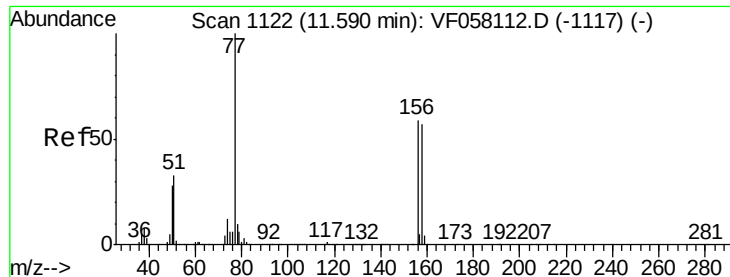
77 35.4 17.5 52.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.37 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

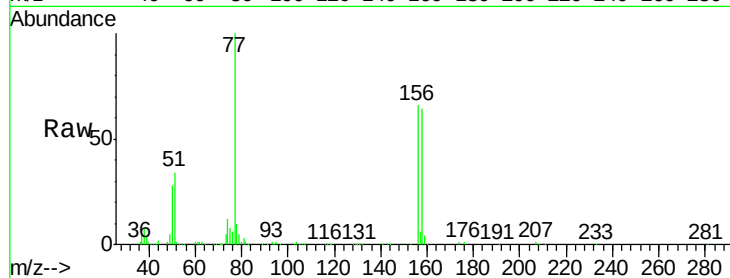
Tot Ion:156 Resp: 90045

Ion Ratio Lower Upper

156 100

77 151.5 84.8 254.4

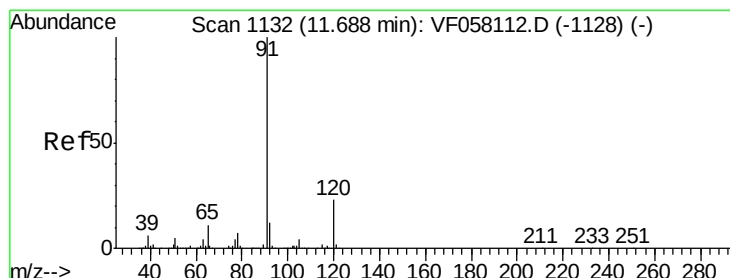
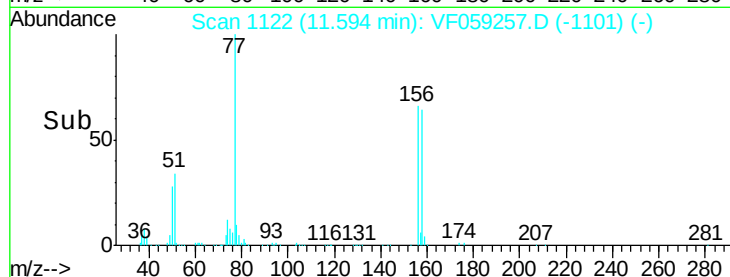
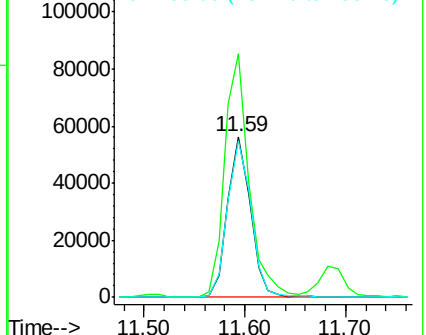
158 97.5 47.9 143.7



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 20.61 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF059257.D

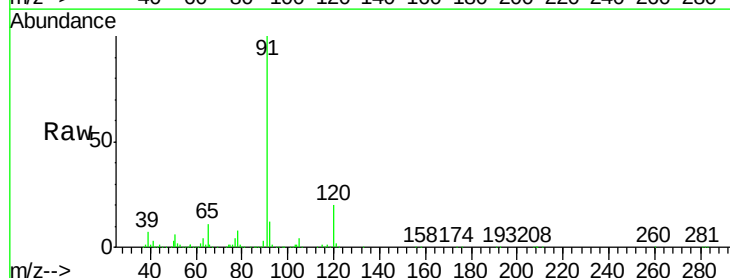
Acq: 21 Jun 2018 11:07

Tgt Ion: 91 Resp: 428309

Ion Ratio Lower Upper

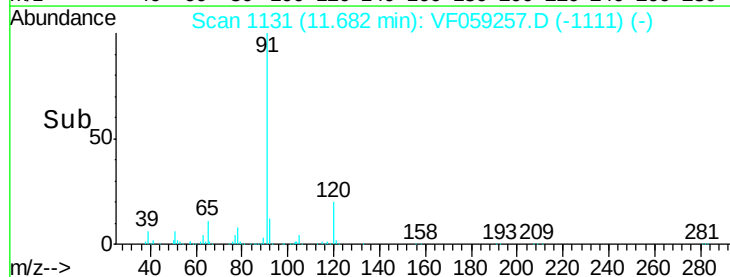
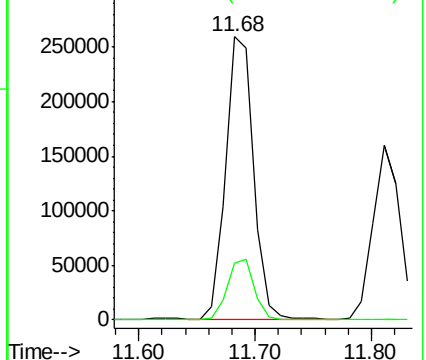
91 100

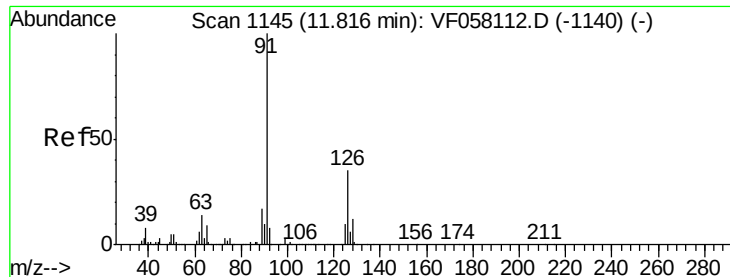
120 20.1 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.84 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

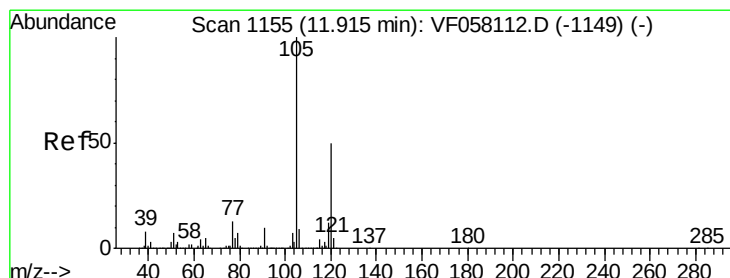
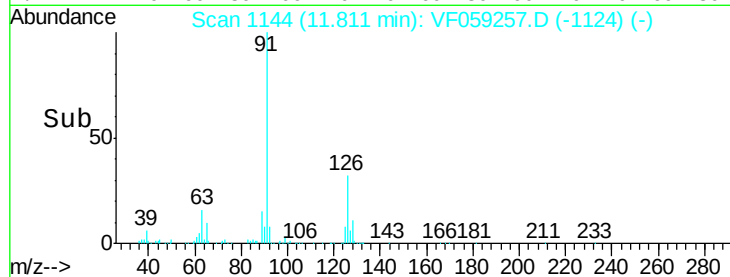
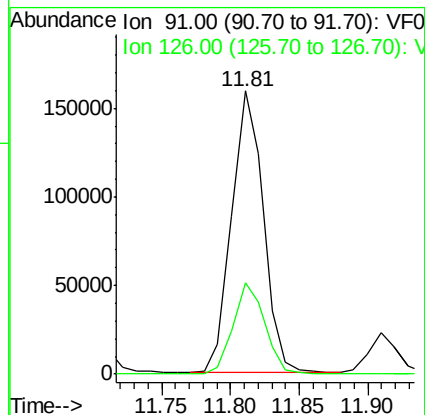
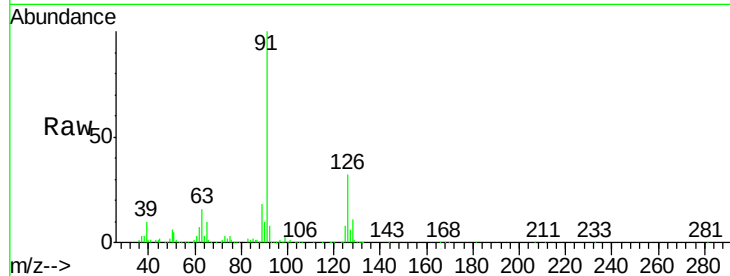
ClientSampleId :

Tot Ion: 91 Resp: 255902

Ion Ratio Lower Upper

91 100

126 32.3 17.6 52.9



#80

1,3,5-Trimethylbenzene

Concen: 21.62 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VF059257.D

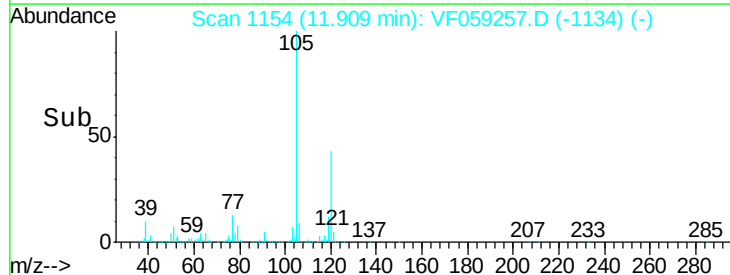
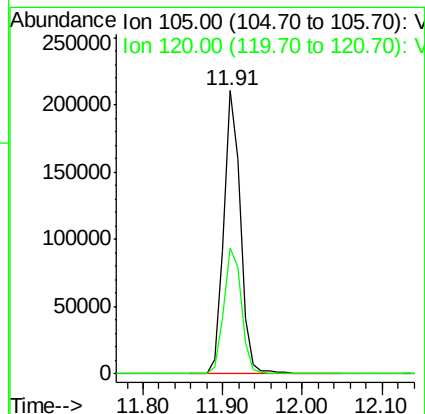
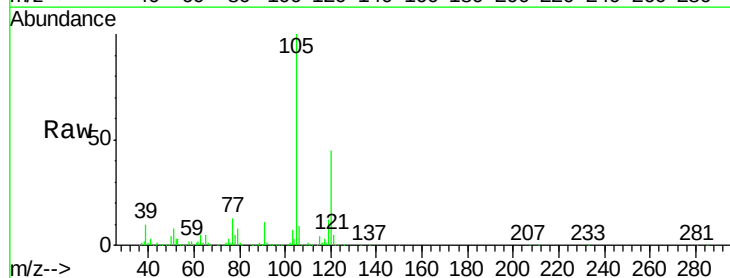
Acq: 21 Jun 2018 11:07

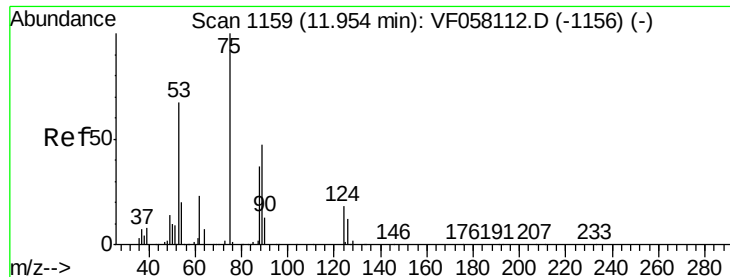
Tgt Ion:105 Resp: 314260

Ion Ratio Lower Upper

105 100

120 44.6 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 19.34 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

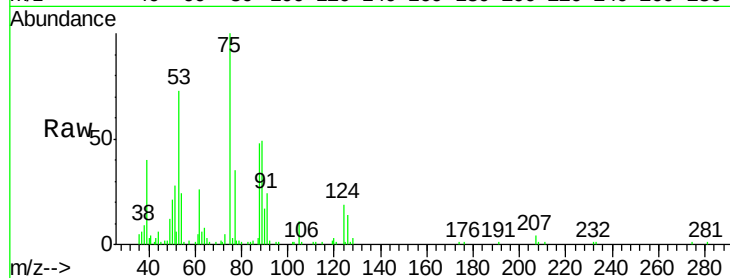
Tot Ion: 75 Resp: 38565

Ion Ratio Lower Upper

75 100

53 72.7 58.7 88.1

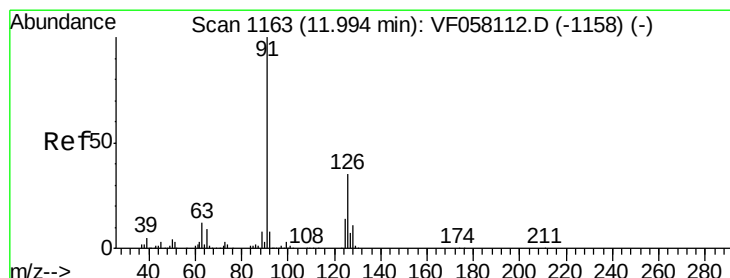
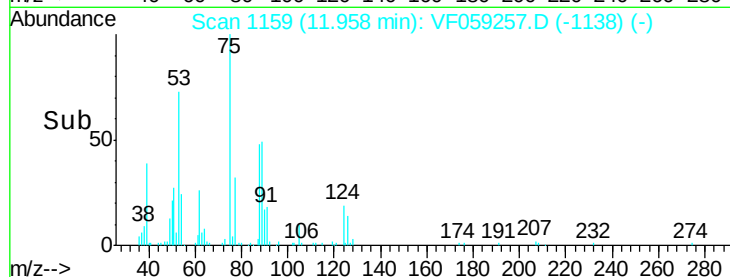
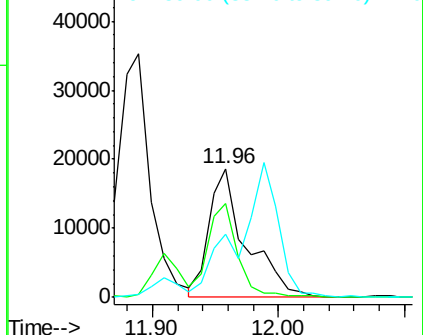
89 49.1 39.8 59.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 20.30 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. -0.01 min

Lab File: VF059257.D

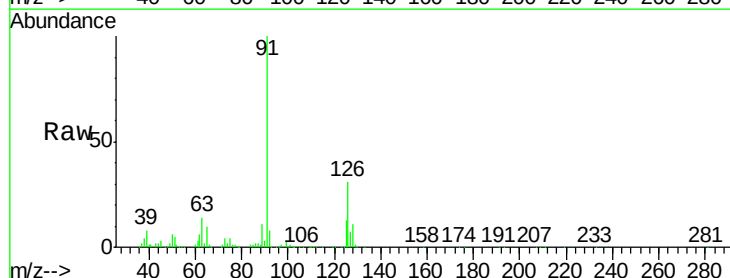
Acq: 21 Jun 2018 11:07

Tgt Ion: 91 Resp: 265447

Ion Ratio Lower Upper

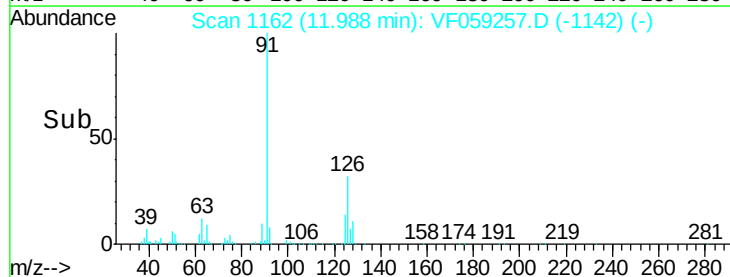
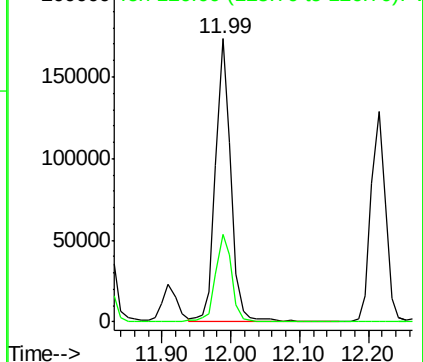
91 100

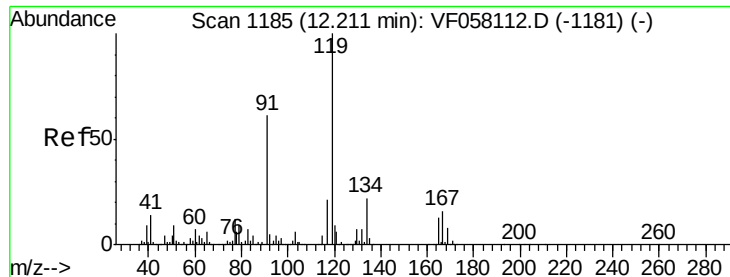
126 31.1 17.4 52.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 22.04 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

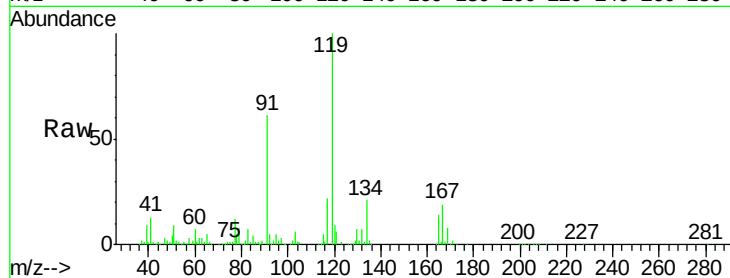
Tot Ion:119 Resp: 318116

Ion Ratio Lower Upper

119 100

91 60.5 30.4 91.3

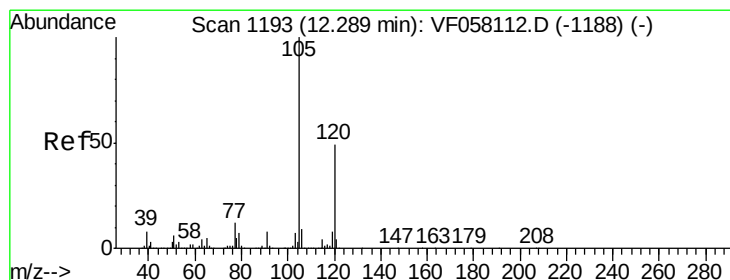
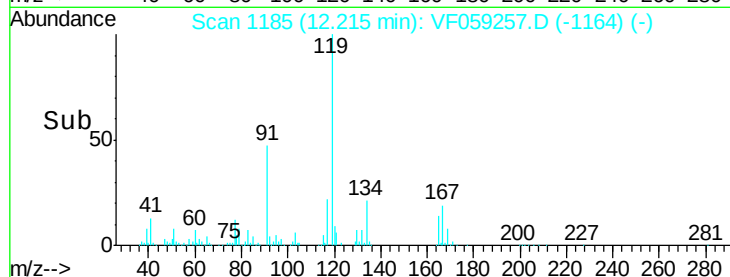
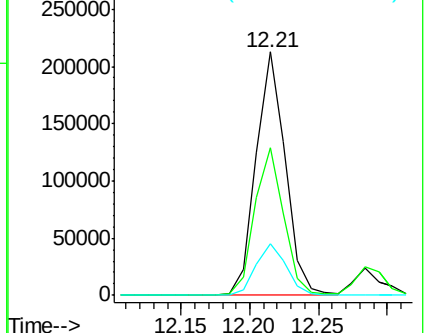
134 21.4 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.92 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF059257.D

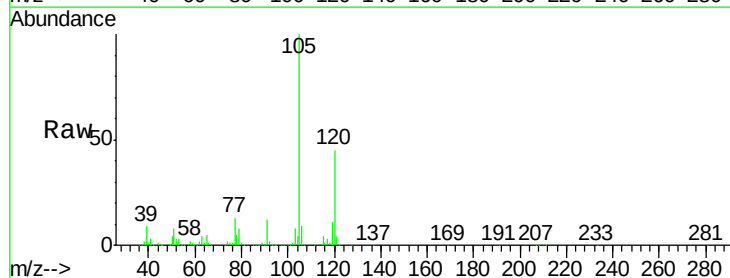
Acq: 21 Jun 2018 11:07

Tgt Ion:105 Resp: 315083

Ion Ratio Lower Upper

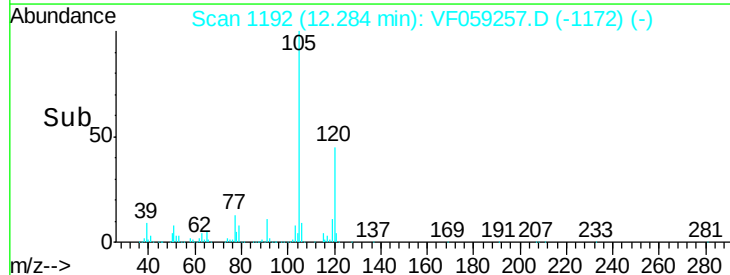
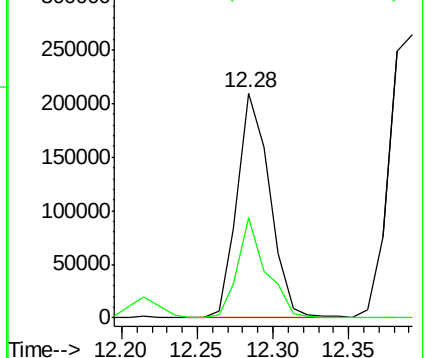
105 100

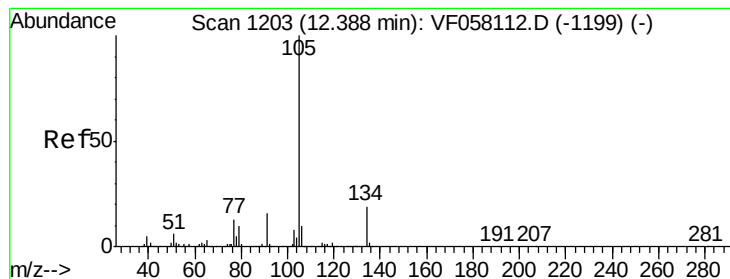
120 44.8 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.43 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

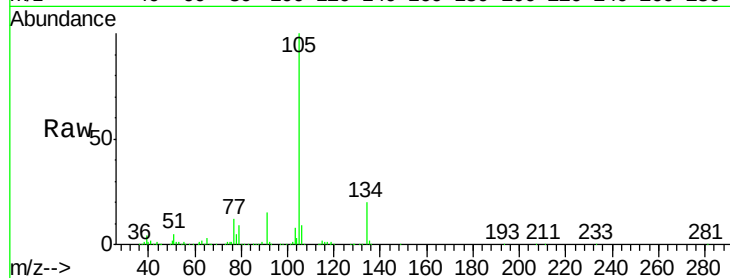
ClientSampleId :

Tot Ion:105 Resp: 420176

Ion Ratio Lower Upper

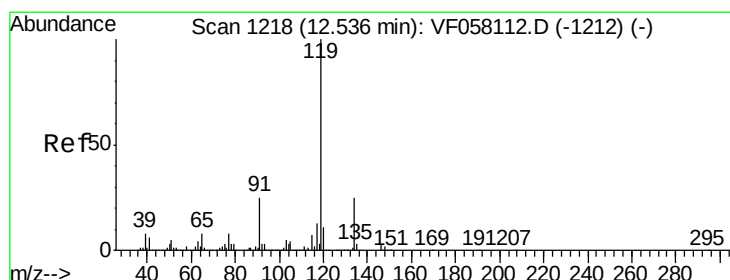
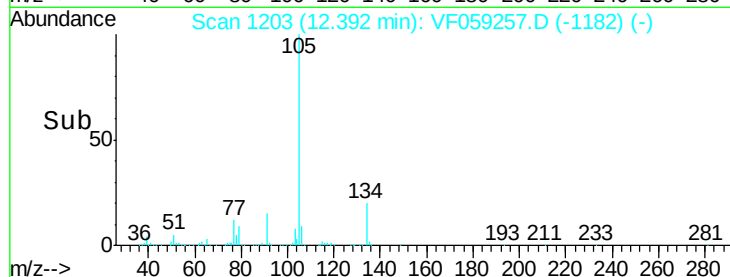
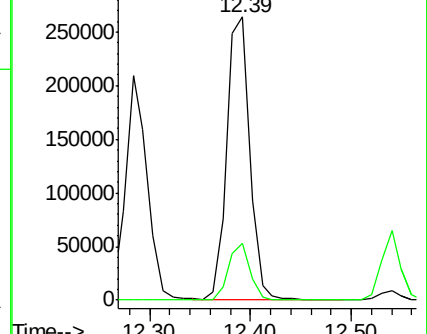
105 100

134 19.9 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.07 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

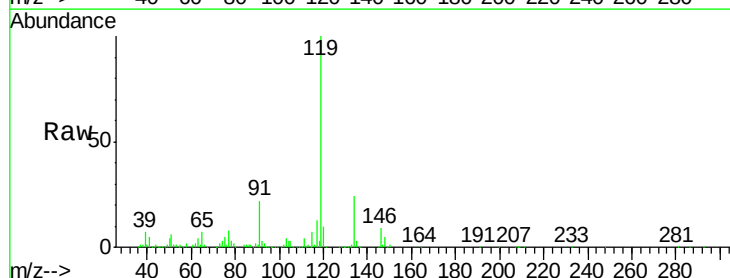
Tgt Ion:119 Resp: 355560

Ion Ratio Lower Upper

119 100

134 24.2 12.7 38.0

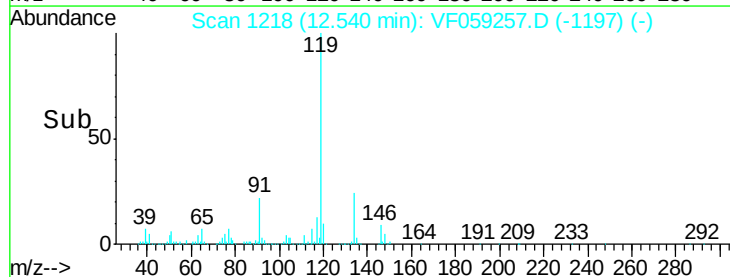
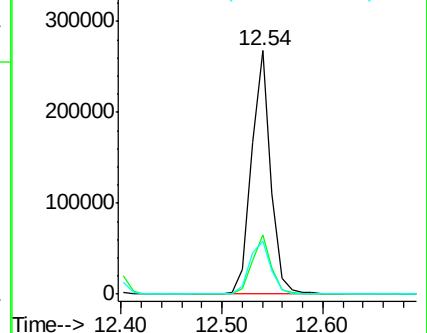
91 21.8 12.6 37.6

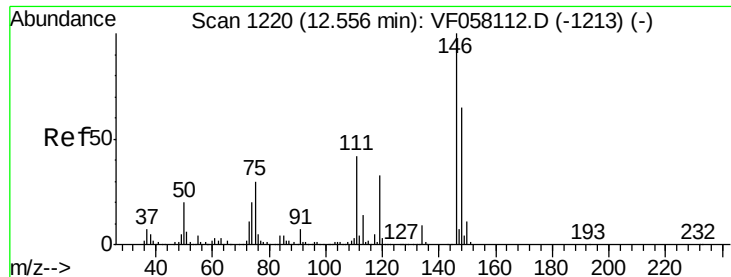


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

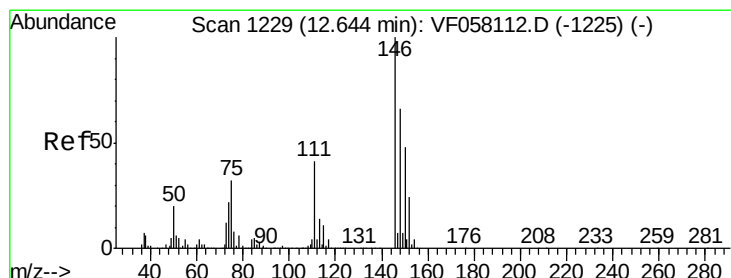
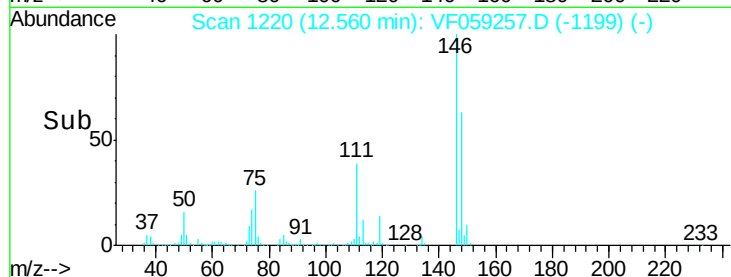
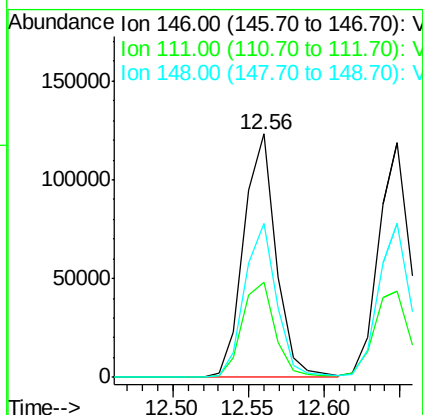
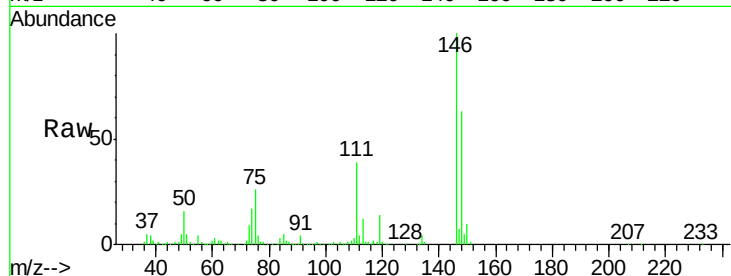




#87  
 1,3-Dichlorobenzene  
 Concen: 22.49 ug/l  
 RT: 12.56 min Scan# 1220  
 Delta R.T. 0.00 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

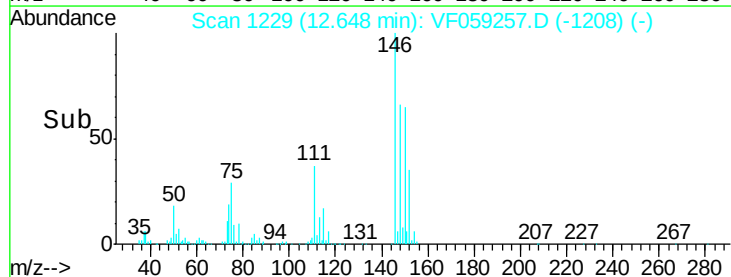
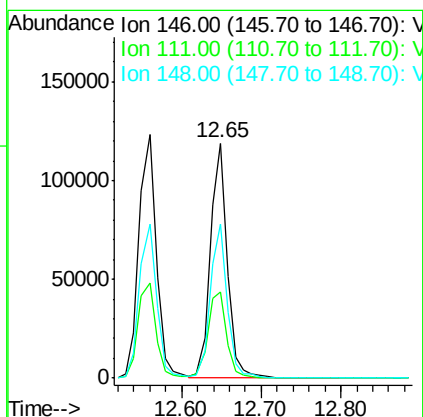
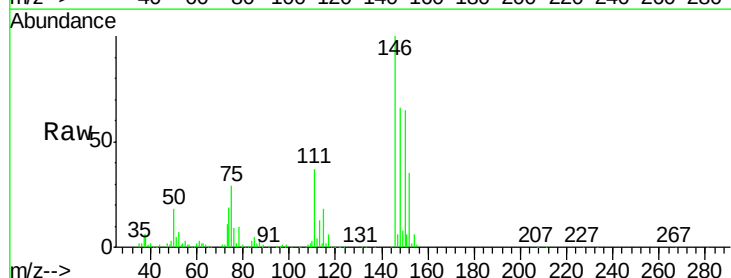
Instrument :  
 MSVOA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.1  | 20.8  | 62.5  |
| 148     | 63.5  | 32.3  | 96.9  |

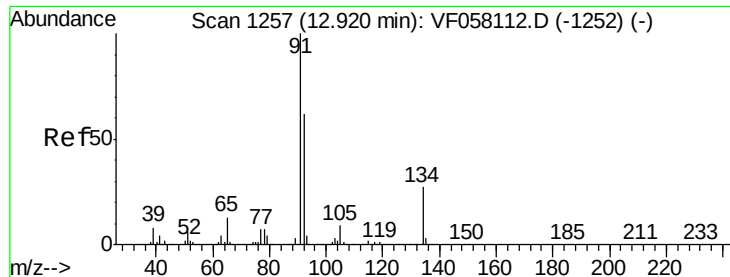


#88  
 1,4-Dichlorobenzene  
 Concen: 22.59 ug/l  
 RT: 12.65 min Scan# 1229  
 Delta R.T. 0.00 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.8  | 20.4  | 61.2  |
| 148     | 65.7  | 33.0  | 99.0  |







#89

n-Butylbenzene

Concen: 20.06 ug/l

RT: 12.91 min Scan# 1256

Delta R.T. -0.01 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

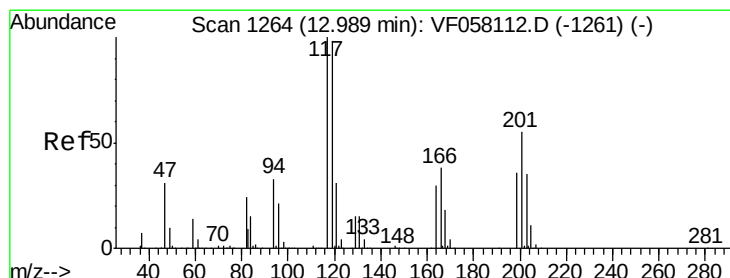
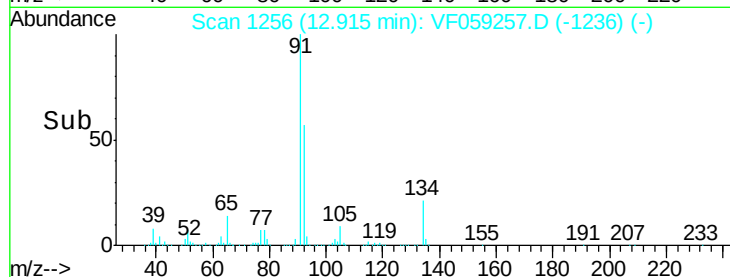
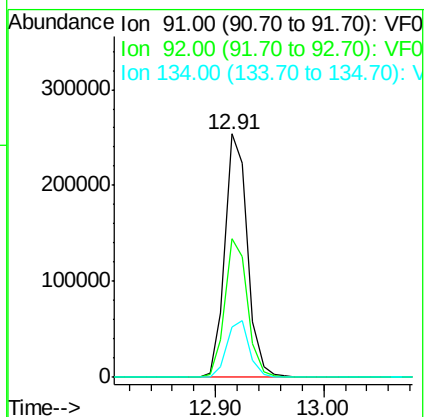
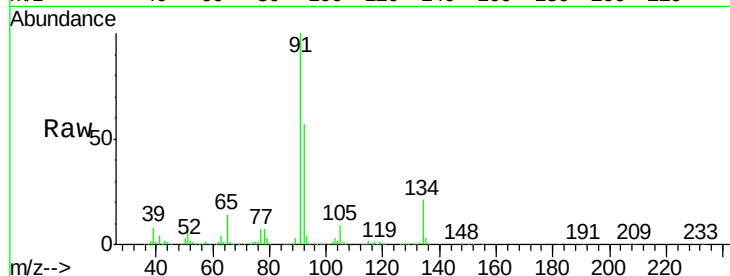
Tot Ion: 91 Resp: 367644

Ion Ratio Lower Upper

91 100

92 56.8 31.1 93.5

134 20.8 13.6 40.8



#90

Hexachloroethane

Concen: 22.37 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VF059257.D

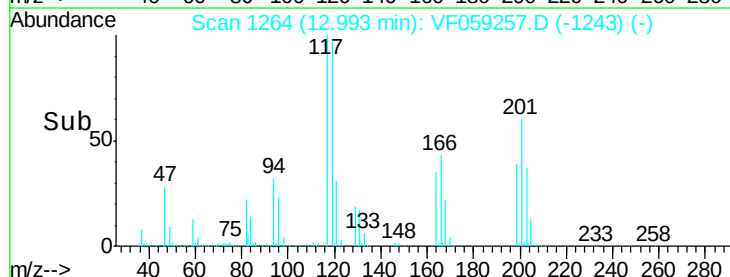
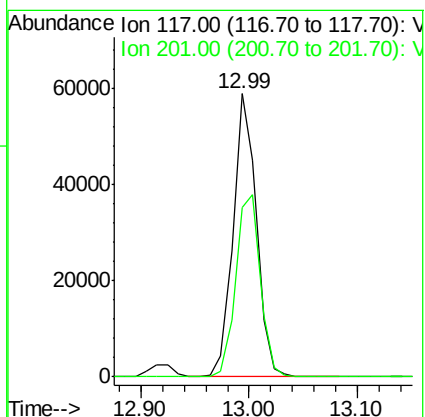
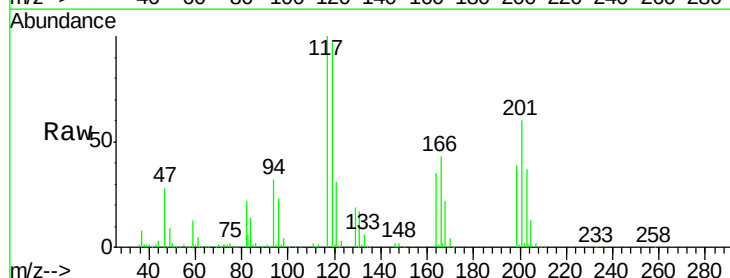
Acq: 21 Jun 2018 11:07

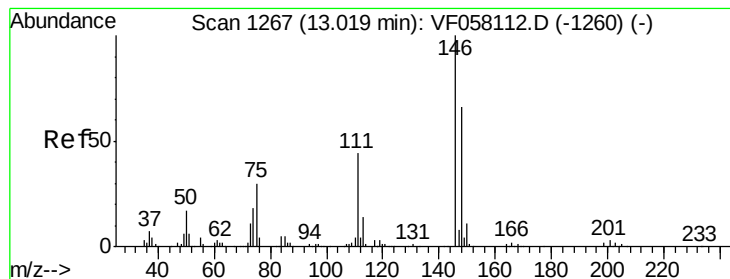
Tgt Ion: 117 Resp: 88741

Ion Ratio Lower Upper

117 100

201 59.8 27.5 82.4





#91

1,2-Dichlorobenzene

Concen: 22.18 ug/l

RT: 13.02 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

Instrument :

MSVOA\_F

ClientSampleId :

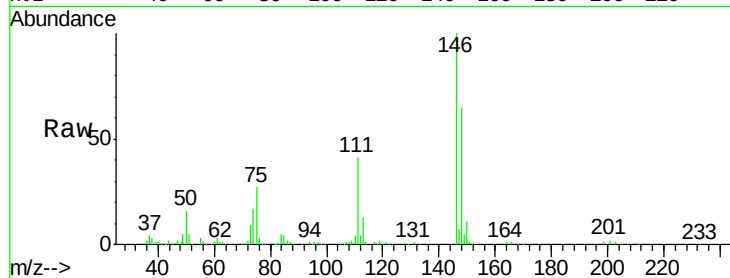
Tot Ion:146 Resp: 174339

Ion Ratio Lower Upper

146 100

111 41.4 22.0 66.0

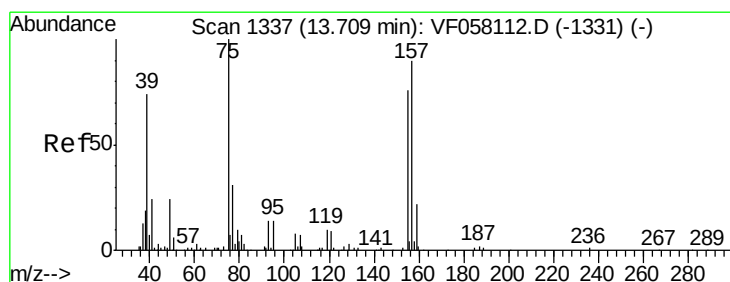
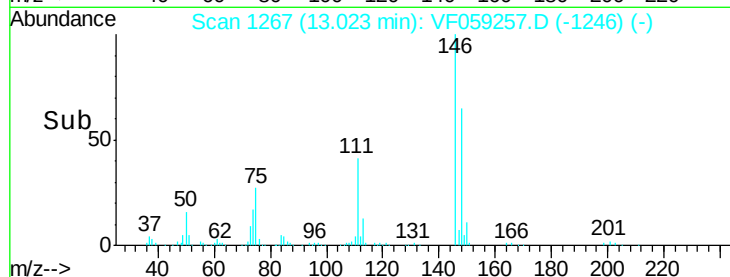
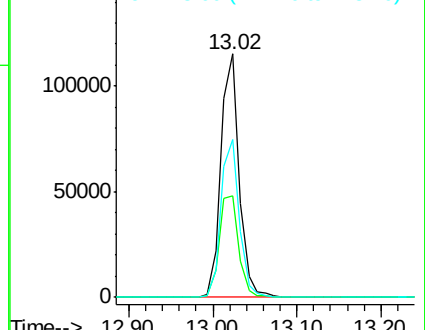
148 65.0 33.1 99.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.68 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VF059257.D

Acq: 21 Jun 2018 11:07

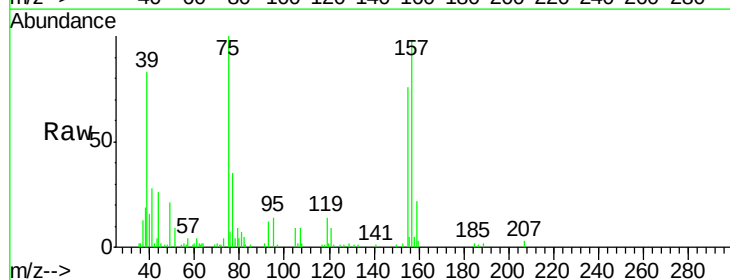
Tgt Ion: 75 Resp: 16892

Ion Ratio Lower Upper

75 100

155 76.4 38.0 114.0

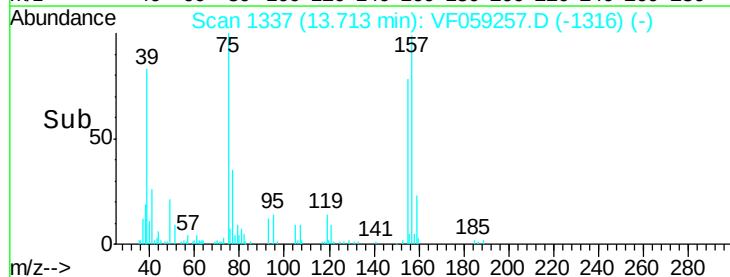
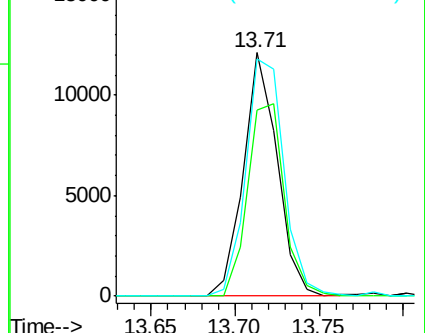
157 97.6 45.1 135.5

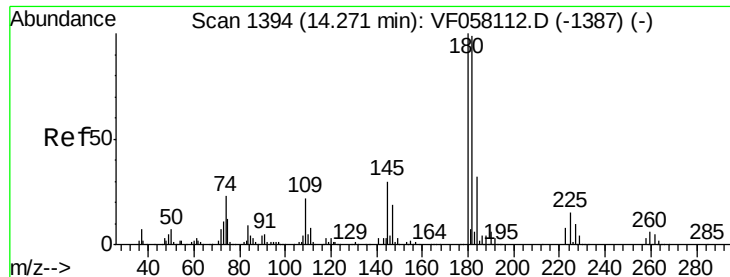


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

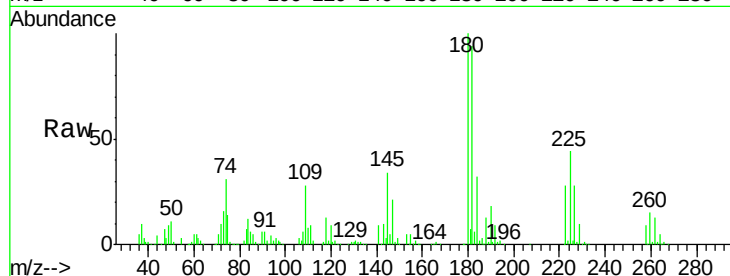




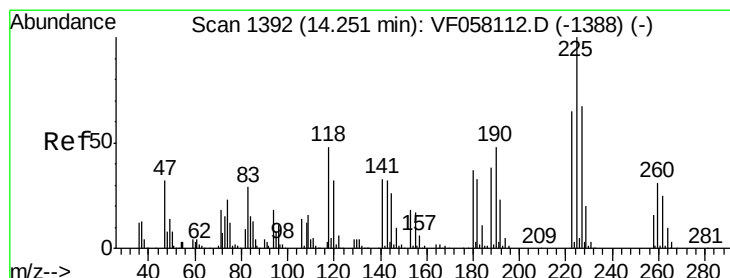
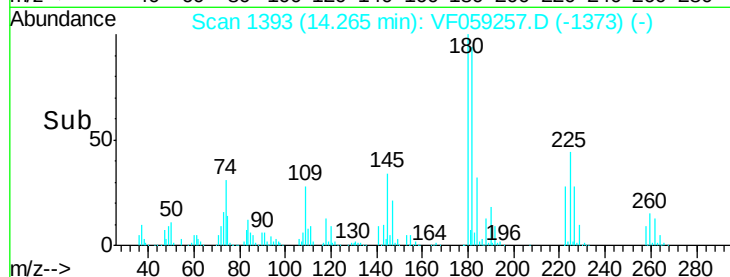
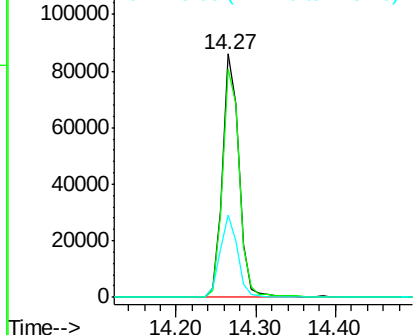
#93  
 1,2,4-Trichlorobenzene  
 Concen: 23.21 ug/l  
 RT: 14.27 min Scan# 1393  
 Delta R.T. -0.01 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

Instrument :  
 MSVOA\_F  
 ClientSampled :

Tot Ion:180 Resp: 127614  
 Ion Ratio Lower Upper  
 180 100  
 182 94.0 49.3 147.9  
 145 33.9 14.9 44.9

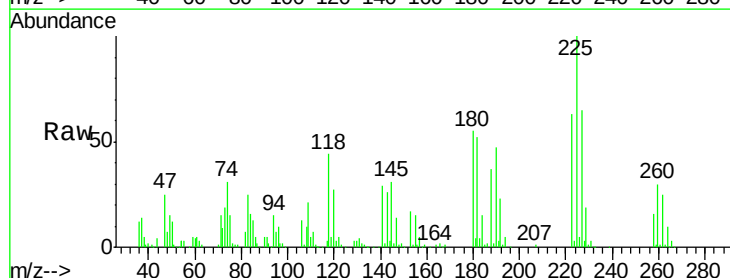


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

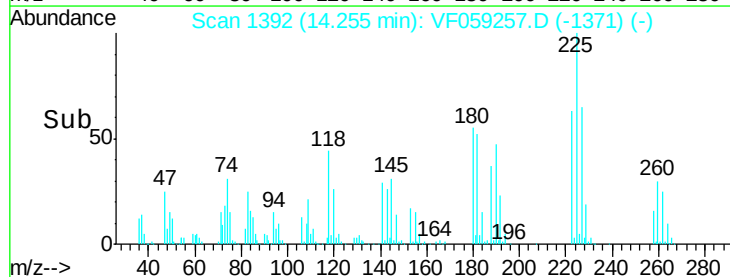
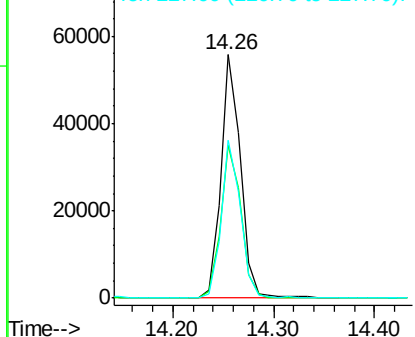


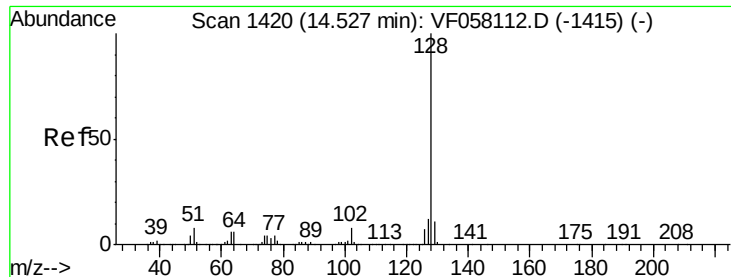
#94  
 Hexachlorobutadiene  
 Concen: 23.75 ug/l  
 RT: 14.26 min Scan# 1392  
 Delta R.T. 0.00 min  
 Lab File: VF059257.D  
 Acq: 21 Jun 2018 11:07

Tgt Ion:225 Resp: 75550  
 Ion Ratio Lower Upper  
 225 100  
 223 63.0 32.8 98.3  
 227 64.6 33.3 99.9



Abundance Ion 225.00 (224.70 to 225.70): V  
 Ion 223.00 (222.70 to 223.70): V  
 Ion 227.00 (226.70 to 227.70): V

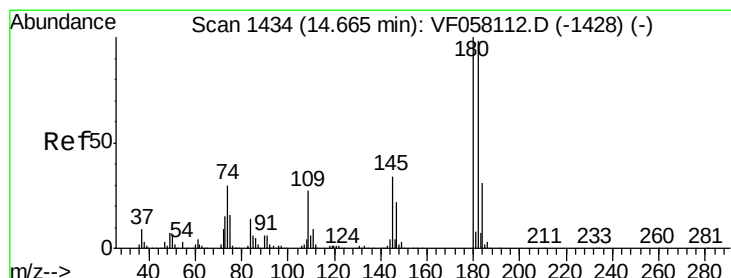
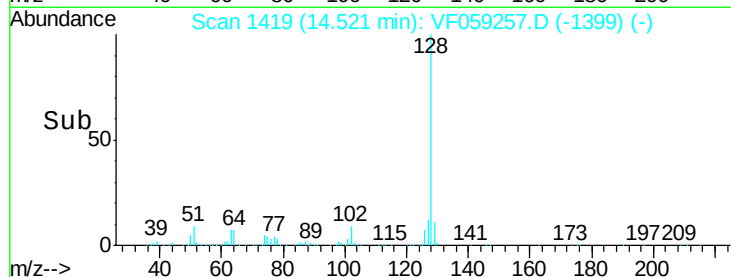
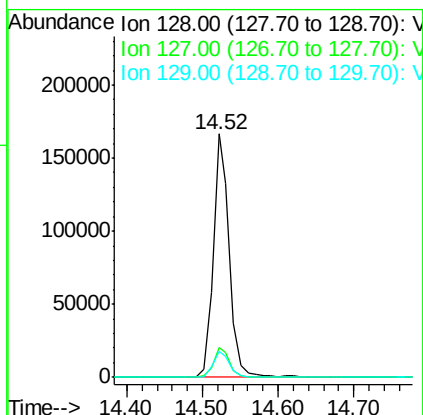
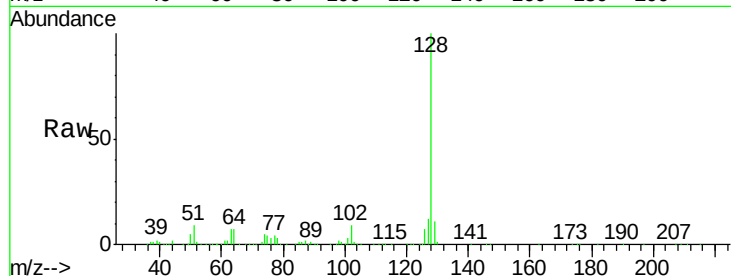




#95  
Naphthalene  
Concen: 21.12 ug/l  
RT: 14.52 min Scan# 1419  
Delta R.T. -0.01 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

Instrument :  
MSVOA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.4  | 9.9   | 14.9  |
| 129     | 10.7  | 8.7   | 13.1  |



#96  
1,2,3-Trichlorobenzene  
Concen: 23.56 ug/l  
RT: 14.67 min Scan# 1434  
Delta R.T. 0.00 min  
Lab File: VF059257.D  
Acq: 21 Jun 2018 11:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 89.5  | 48.9  | 146.6 |
| 145     | 31.7  | 17.3  | 51.7  |

