

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF072318\  
 Data File : VF059617.D  
 Acq On : 23 Jul 2018 16:26  
 Operator : VA/AP  
 Sample : VSTDICV050  
 Misc : 5.00g/5mL/MSVOA\_F/SOIL  
 ALS Vial : 88 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVVF072318

Quant Time: Jul 24 04:49:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F072318S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 24 04:17:55 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 279138   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 401145   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 385673   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 241640   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |       |
|-----------------------------|--------|-----|----------|-------|---------|-------|
| System Monitoring Compounds |        |     |          |       |         |       |
| 33) 1,2-Dichloroethane-d4   | 5.01   | 65  | 206428   | 46.99 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.98%  |       |
| 35) Dibromofluoromethane    | 4.28   | 113 | 186769   | 50.46 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.92% |       |
| 50) Toluene-d8              | 7.71   | 98  | 484091   | 52.24 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.48% |       |
| 62) 4-Bromofluorobenzene    | 11.50  | 95  | 240051   | 44.88 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.76%  |       |

| Target Compounds              |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.98 | 85  | 153588 | 43.851  | ug/l   | 93     |
| 3) Chloromethane              | 1.08 | 50  | 75380  | 47.192  | ug/l # | 89     |
| 4) Vinyl Chloride             | 1.15 | 62  | 90767  | 50.307  | ug/l   | 90     |
| 5) Bromomethane               | 1.34 | 94  | 70175  | 44.946  | ug/l   | 89     |
| 6) Chloroethane               | 1.42 | 64  | 50445  | 45.812  | ug/l   | 91     |
| 7) Trichlorofluoromethane     | 1.49 | 101 | 69573  | 14.181  | ug/l   | 99     |
| 8) Diethyl Ether              | 1.69 | 74  | 35561  | 50.499  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.89 | 101 | 103520 | 41.938  | ug/l   | 95     |
| 10) Methyl Iodide             | 1.96 | 142 | 192581 | 46.398  | ug/l   | 86     |
| 11) Tert butyl alcohol        | 2.68 | 59  | 44224  | 247.352 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 1.85 | 96  | 87971  | 44.960  | ug/l   | 96     |
| 13) Acrolein                  | 2.09 | 56  | 27773  | 309.770 | ug/l   | 95     |
| 14) Allyl chloride            | 2.19 | 41  | 160116 | 45.201  | ug/l   | 86     |
| 15) Acrylonitrile             | 3.06 | 53  | 68275  | 247.555 | ug/l   | 95     |
| 16) Acetone                   | 2.33 | 43  | 192301 | 255.334 | ug/l   | 100    |
| 17) Carbon Disulfide          | 1.83 | 76  | 72380  | 14.291  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.44 | 43  | 54590  | 54.536  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 2.53 | 73  | 269923 | 47.334  | ug/l   | 95     |
| 20) Methylene Chloride        | 2.26 | 84  | 88614  | 51.833  | ug/l # | 78     |
| 21) trans-1,2-Dichloroethene  | 2.40 | 96  | 90063  | 44.780  | ug/l   | 93     |
| 22) Diisopropyl ether         | 2.91 | 45  | 325476 | 50.138  | ug/l # | 96     |
| 23) Vinyl Acetate             | 3.33 | 43  | 836744 | 256.084 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 2.99 | 63  | 215530 | 46.321  | ug/l   | 99     |
| 25) 2-Butanone                | 4.50 | 43  | 201001 | 258.861 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 3.75 | 77  | 175651 | 44.791  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 3.62 | 96  | 110670 | 48.009  | ug/l   | 95     |
| 28) Bromochloromethane        | 3.88 | 49  | 80605  | 47.124  | ug/l   | 94     |
| 29) Tetrahydrofuran           | 4.25 | 42  | 79734  | 253.455 | ug/l   | 97     |
| 30) Chloroform                | 4.02 | 83  | 294626 | 46.063  | ug/l   | 98     |
| 31) Cyclohexane               | 3.85 | 56  | 126923 | 49.023  | ug/l   | 90     |
| 32) 1,1,1-Trichloroethane     | 4.26 | 97  | 252225 | 43.545  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 4.44 | 75  | 188701 | 46.448  | ug/l # | 93     |
| 37) Ethyl Acetate             | 4.27 | 43  | 88582  | 54.239  | ug/l # | 100    |
| 38) Carbon Tetrachloride      | 4.16 | 117 | 261918 | 41.783  | ug/l   | 97     |

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 Sample : VSTDICV050  
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 ALS Vial : 88 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVVF072318

Quant Time: Jul 24 04:49:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F072318S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 24 04:17:55 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 5.62  | 83   | 152286   | 46.207   | ug/l   | 94       |
| 40) Benzene                    | 4.80  | 78   | 349316   | 47.053   | ug/l   | 97       |
| 41) Methacrylonitrile          | 4.91  | 41   | 41194    | 49.201   | ug/l # | 77       |
| 42) 1,2-Dichloroethane         | 5.10  | 62   | 212939   | 42.483   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 7.10  | 43   | 107388   | 51.455   | ug/l   | 99       |
| 44) Trichloroethene            | 5.66  | 130  | 129218   | 45.154   | ug/l   | 91       |
| 45) 1,2-Dichloropropane        | 6.39  | 63   | 89381    | 44.470   | ug/l   | 89       |
| 46) Dibromomethane             | 6.25  | 93   | 93783    | 56.331   | ug/l   | 93       |
| 47) Bromodichloromethane       | 6.54  | 83   | 223123   | 44.161   | ug/l   | 98       |
| 48) Methyl methacrylate        | 6.87  | 41   | 74217    | 47.545   | ug/l   | 88       |
| 49) 1,4-Dioxane                | 6.86  | 88   | 10908    | 1126.104 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 8.40  | 43   | 392846   | 258.367  | ug/l   | 97       |
| 52) Toluene                    | 7.77  | 92   | 252397   | 44.655   | ug/l   | 93       |
| 53) t-1,3-Dichloropropene      | 8.41  | 75   | 189265   | 44.309   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 7.45  | 75   | 204100   | 48.203   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 8.63  | 97   | 88512    | 45.766   | ug/l   | 93       |
| 56) Ethyl methacrylate         | 8.75  | 69   | 110914   | 51.514   | ug/l # | 87       |
| 57) 1,3-Dichloropropane        | 9.00  | 76   | 155215   | 46.123   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.76  | 63   | 54630    | 219.297  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.63  | 43   | 346427   | 280.748  | ug/l   | 100      |
| 60) Dibromochloromethane       | 8.86  | 129  | 158339   | 45.975   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.12  | 107  | 108973   | 49.160   | ug/l   | 94       |
| 64) Tetrachloroethene          | 8.30  | 164  | 129538   | 45.229   | ug/l   | 93       |
| 65) Chlorobenzene              | 9.93  | 112  | 332856   | 46.805   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.06 | 131  | 147495   | 45.773   | ug/l   | 96       |
| 67) Ethyl Benzene              | 10.03 | 91   | 612550   | 47.371   | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.26 | 106  | 422877   | 96.227   | ug/l   | 98       |
| 69) o-Xylene                   | 10.82 | 106  | 231375   | 48.474   | ug/l   | 96       |
| 70) Styrene                    | 10.90 | 104  | 354962   | 49.584   | ug/l   | 93       |
| 71) Bromoform                  | 10.88 | 173  | 94406    | 47.282   | ug/l   | 91       |
| 73) Isopropylbenzene           | 11.22 | 105  | 715901   | 46.646   | ug/l   | 97       |
| 74) N-amyl acetate             | 11.46 | 43   | 193884   | 56.179   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.79 | 83   | 125535   | 48.725   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 104214   | 46.301   | ug/l   | 90       |
| 77) Bromobenzene               | 11.59 | 156  | 177928   | 44.747   | ug/l   | 98       |
| 78) n-propylbenzene            | 11.69 | 91   | 822424   | 44.717   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 698114   | 63.336   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 608488   | 44.290   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 62065    | 69.523   | ug/l   | 90       |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 541811   | 44.192   | ug/l   | 97       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 606314   | 44.631   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.29 | 105  | 607610   | 43.473   | ug/l   | 93       |
| 85) sec-Butylbenzene           | 12.39 | 105  | 782533   | 44.565   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 692642   | 44.819   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.55 | 146  | 333541   | 43.745   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.64 | 146  | 332553   | 46.487   | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.92 | 91   | 666381   | 45.130   | ug/l   | 97       |
| 90) Hexachloroethane           | 12.99 | 117  | 164115   | 42.864   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 313947   | 44.174   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.71 | 75   | 29731    | 47.942   | ug/l   | 97       |

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Data File : VF059617.D  
Acq On : 23 Jul 2018 16:26  
Operator : VA/AP  
Sample : VSTDICV050  
Misc : 5.00g/5mL/MSVOA\_F/SOIL  
ALS Vial : 88 Sample Multiplier: 1

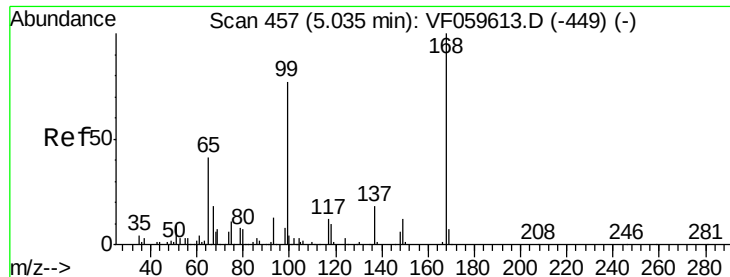
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

Quant Time: Jul 24 04:49:03 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F072318S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 24 04:17:55 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.26 | 180  | 244177   | 45.966 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.25 | 225  | 157909   | 42.701 | ug/l  | 98       |
| 95) Naphthalene            | 14.52 | 128  | 460365   | 53.360 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.66 | 180  | 227352   | 47.080 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

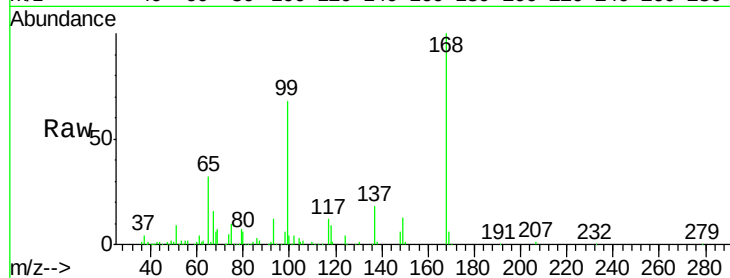
ICVVF072318

Tgt Ion:168 Resp: 279138

Ion Ratio Lower Upper

168 100

99 67.6 61.5 92.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

100000

80000

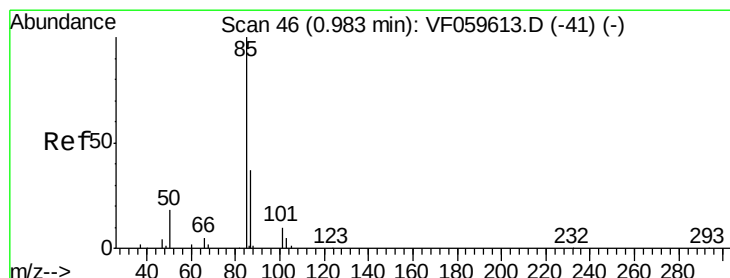
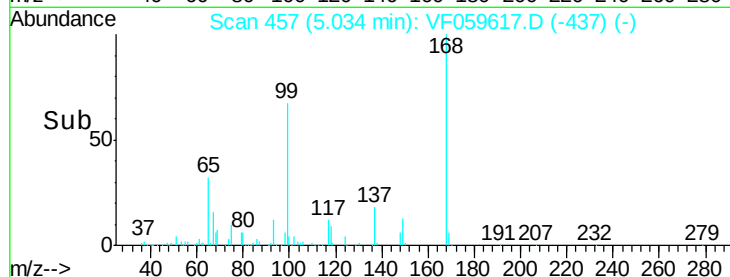
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 43.851 ug/l

RT: 0.98 min Scan# 46

Delta R.T. -0.00 min

Lab File: VF059617.D

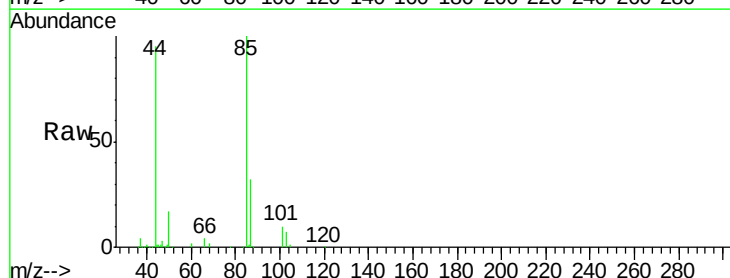
Acq: 23 Jul 2018 16:26

Tgt Ion: 85 Resp: 153588

Ion Ratio Lower Upper

85 100

87 32.4 18.3 54.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

50000

40000

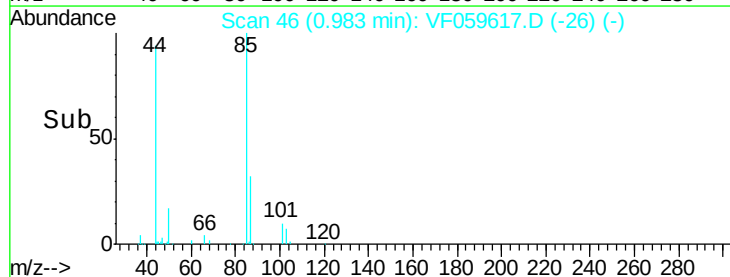
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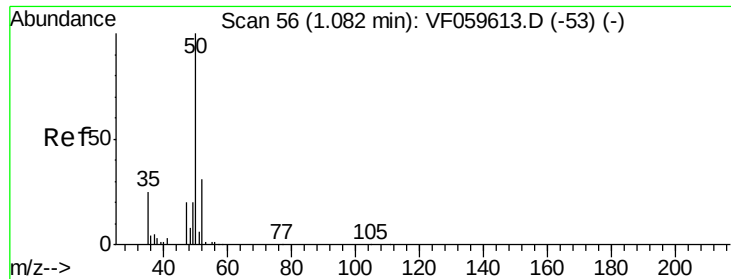
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10000

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Time-->





#3

Chloromethane

Concen: 47.192 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

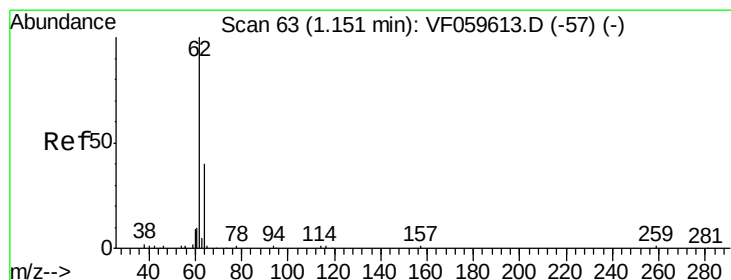
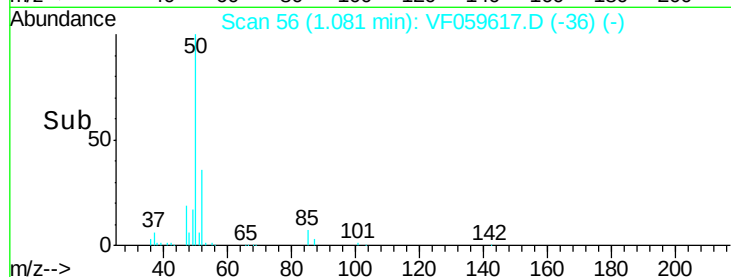
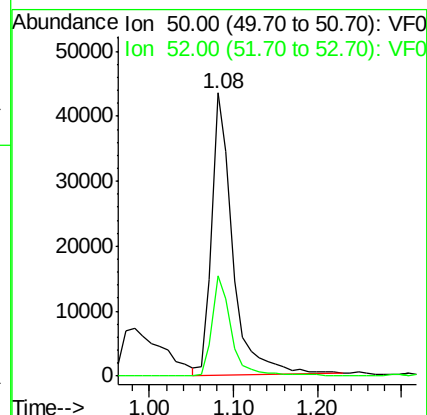
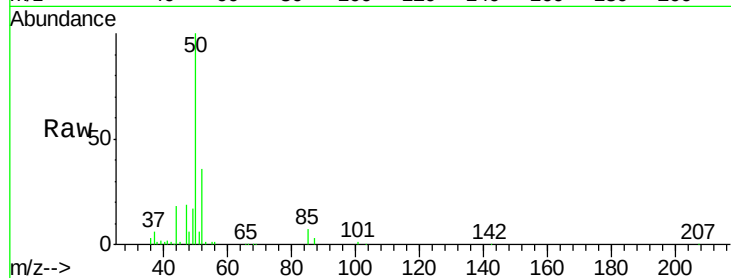
ICVVF072318

Tgt Ion: 50 Resp: 75380

Ion Ratio Lower Upper

50 100

52 35.6 23.7 35.5#



#4

Vinyl Chloride

Concen: 50.307 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.00 min

Lab File: VF059617.D

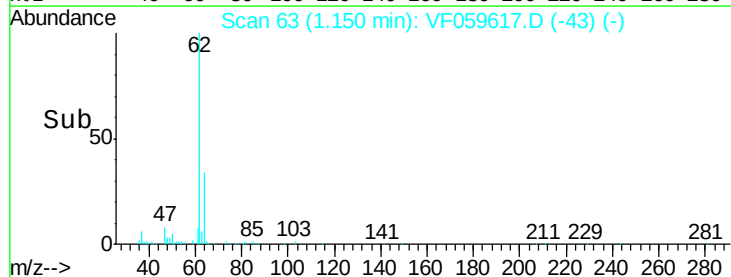
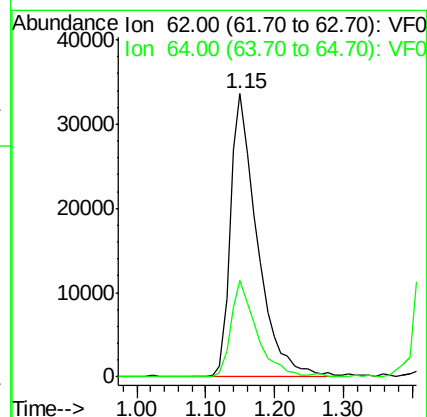
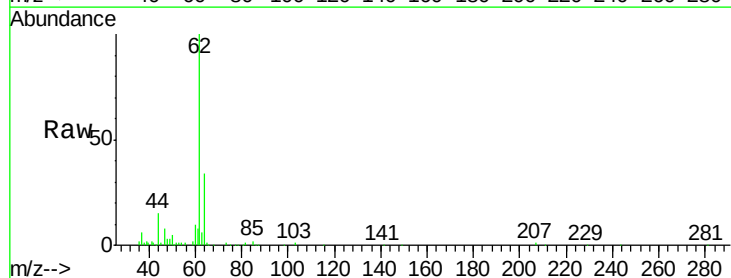
Acq: 23 Jul 2018 16:26

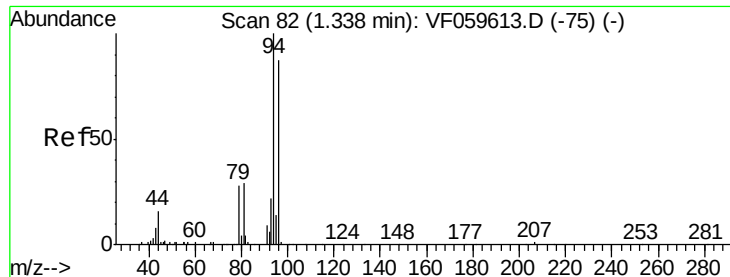
Tgt Ion: 62 Resp: 90767

Ion Ratio Lower Upper

62 100

64 34.3 32.2 48.4





#5

Bromomethane

Concen: 44.946 ug/l

RT: 1.34 min Scan# 82

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

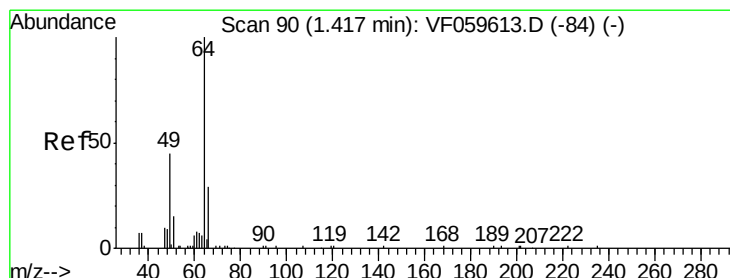
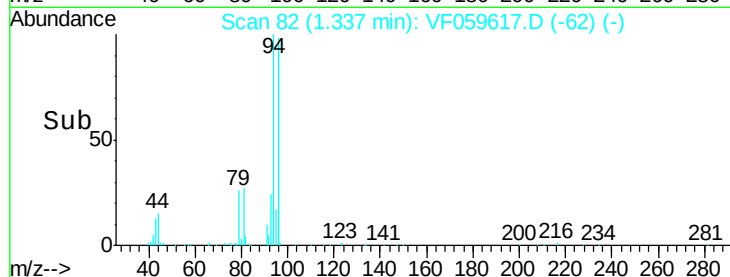
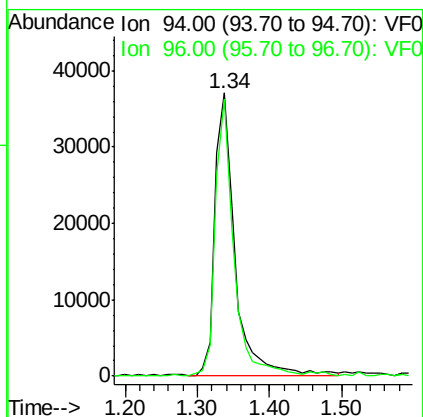
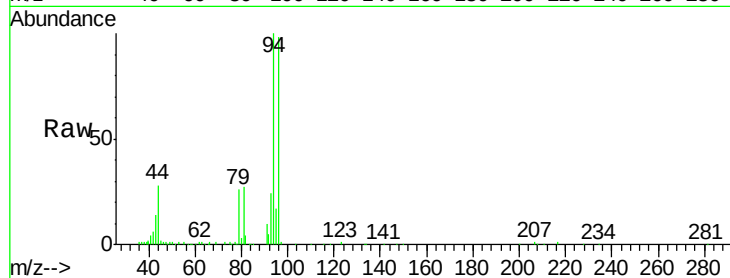
ICVVF072318

Tgt Ion: 94 Resp: 70175

Ion Ratio Lower Upper

94 100

96 97.8 69.8 104.8



#6

Chloroethane

Concen: 45.812 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.00 min

Lab File: VF059617.D

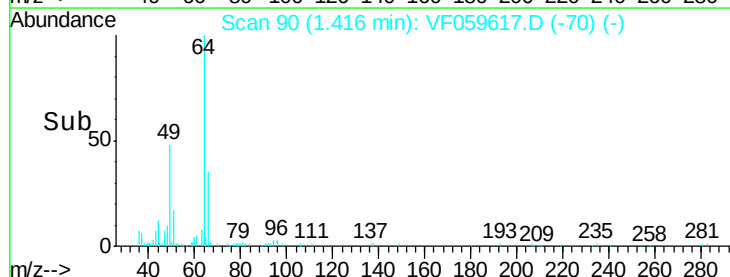
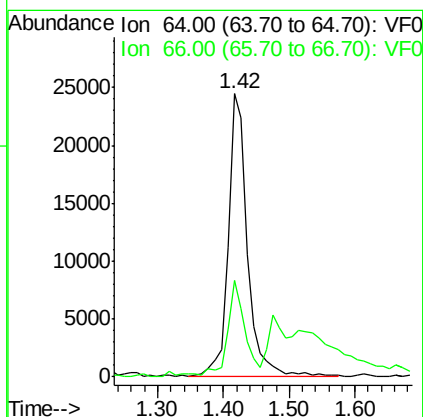
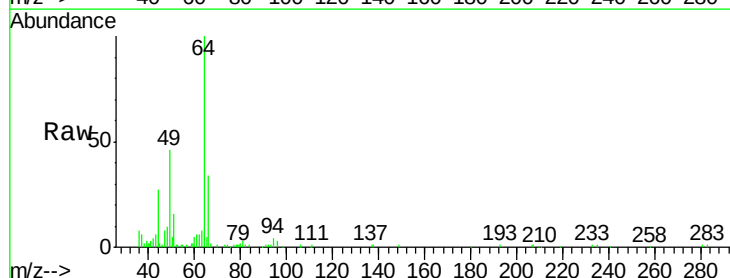
Acq: 23 Jul 2018 16:26

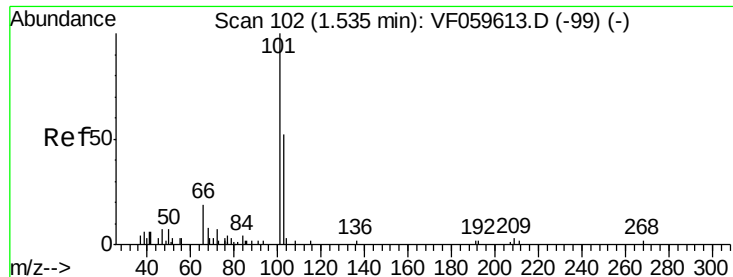
Tgt Ion: 64 Resp: 50445

Ion Ratio Lower Upper

64 100

66 34.3 23.7 35.5



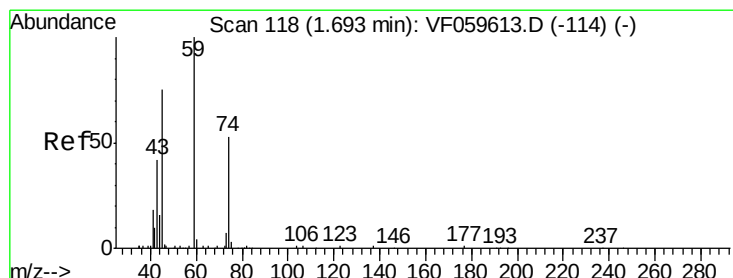
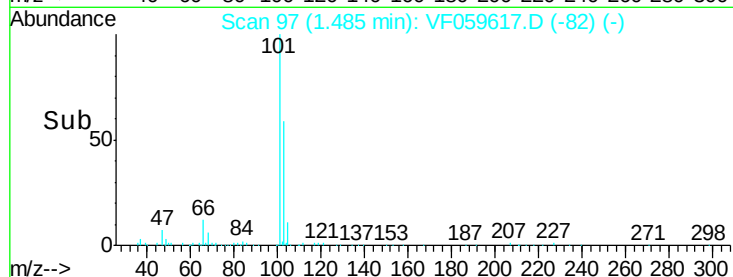
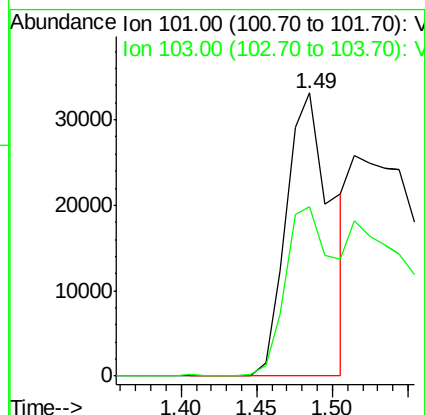
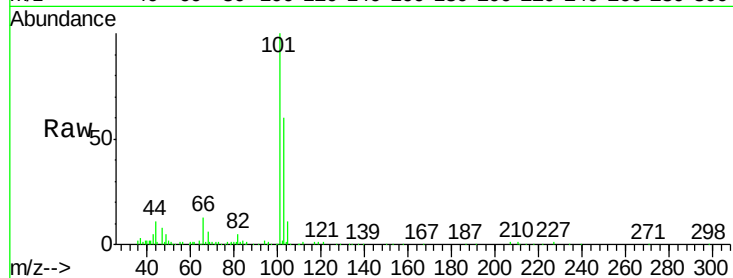


#7

Trichlorofluoromethane  
Concen: 14.181 ug/l  
RT: 1.49 min Scan# 97  
Delta R.T. -0.05 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

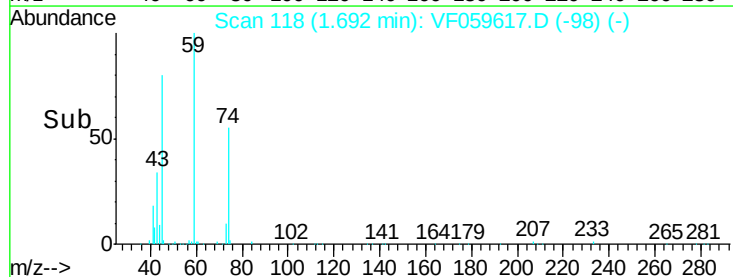
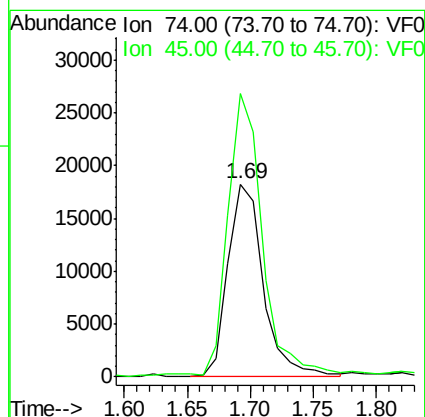
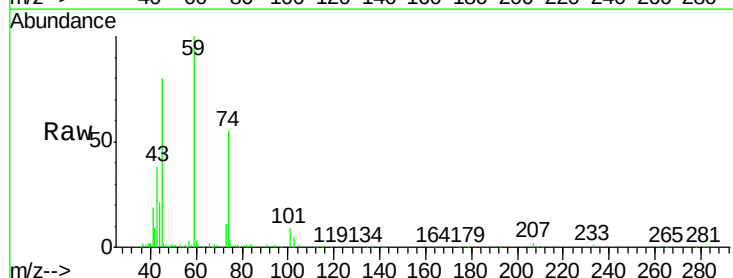
Tgt Ion:101 Resp: 69573  
Ion Ratio Lower Upper  
101 100  
103 59.8 48.2 72.4



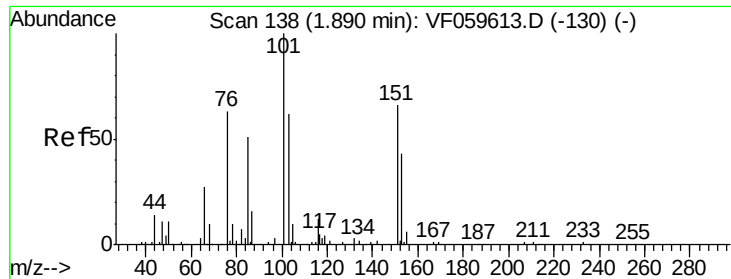
#8

Diethyl Ether  
Concen: 50.499 ug/l  
RT: 1.69 min Scan# 118  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion: 74 Resp: 35561  
Ion Ratio Lower Upper  
74 100  
45 146.8 72.0 215.9







#9

1,1,2-Trichlorotrifluoroethane

Concen: 41.938 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

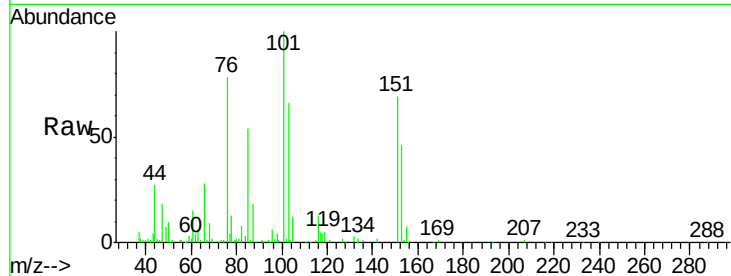
Tgt Ion:101 Resp: 103520

Ion Ratio Lower Upper

101 100

85 53.5 40.2 60.2

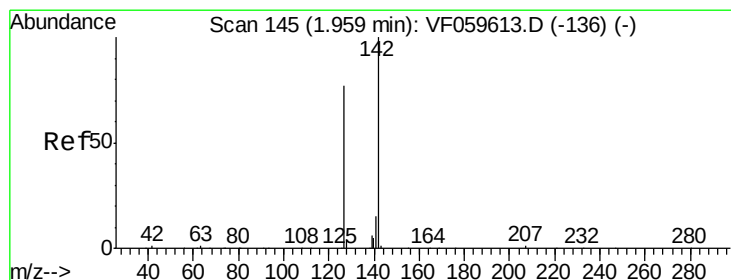
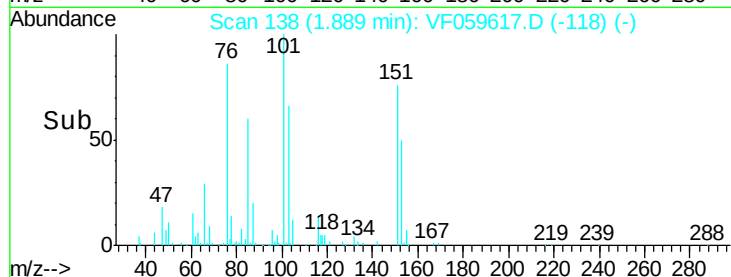
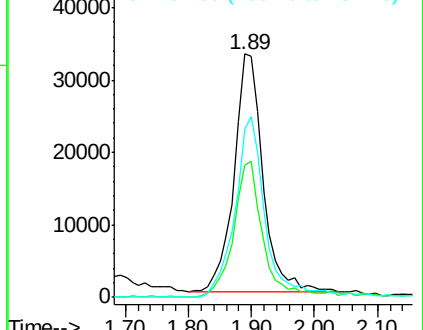
151 67.7 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 46.398 ug/l

RT: 1.96 min Scan# 145

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

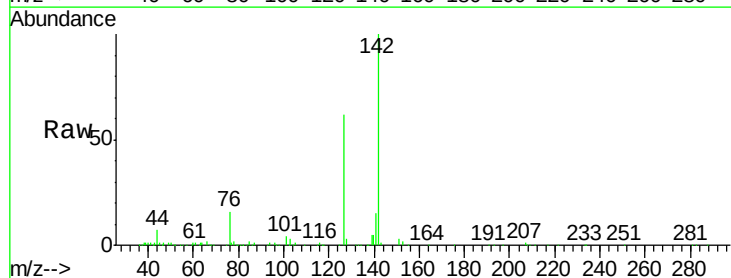
Tgt Ion:142 Resp: 192581

Ion Ratio Lower Upper

142 100

127 62.3 61.2 91.8

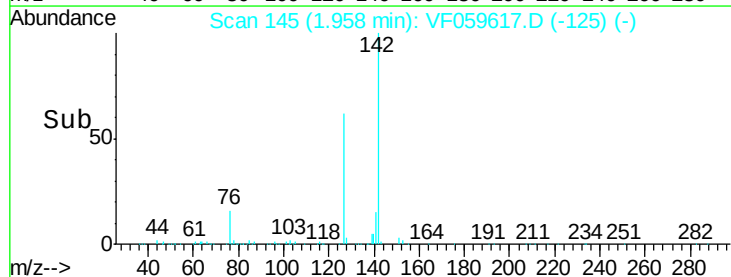
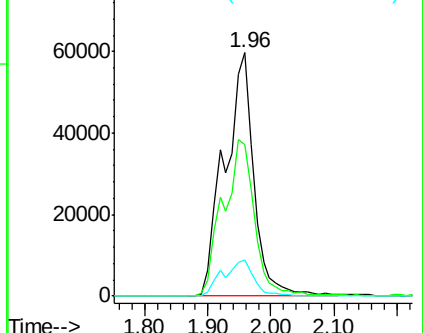
141 14.7 12.0 18.0

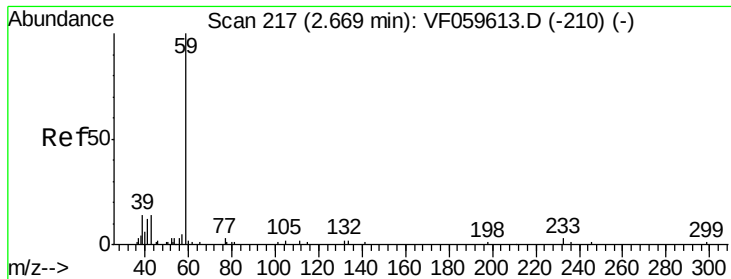


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

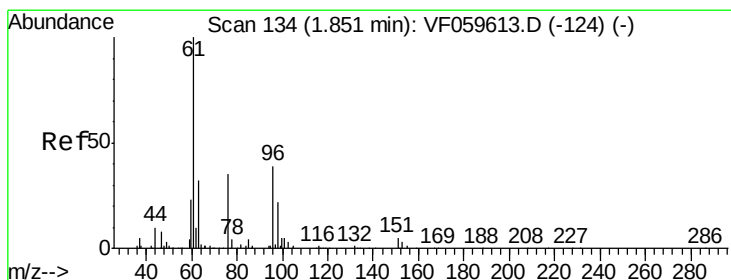
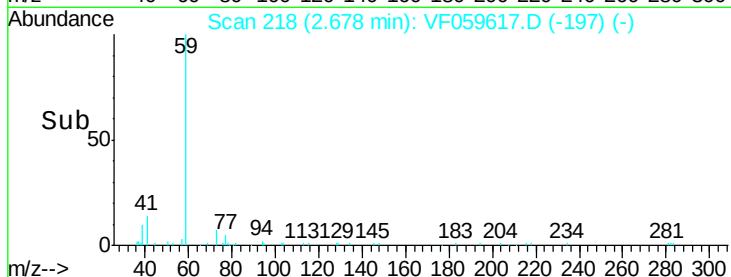
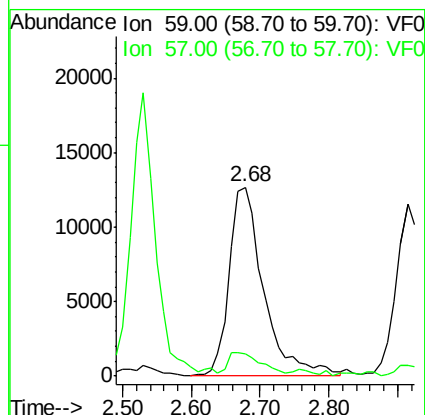
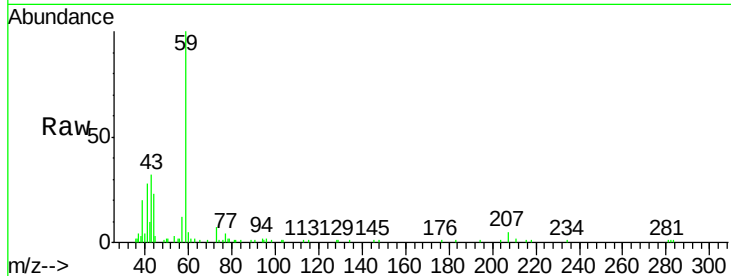




#11  
Tert butyl alcohol  
Concen: 247.352 ug/l  
RT: 2.68 min Scan# 218  
Delta R.T. 0.01 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

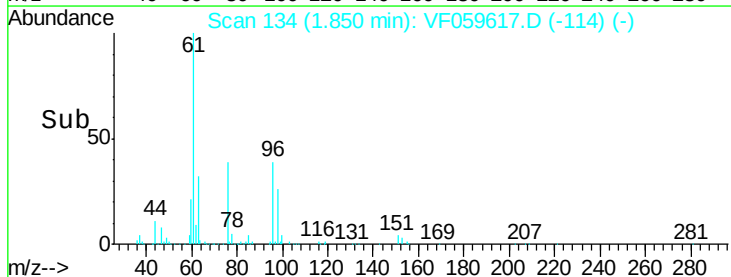
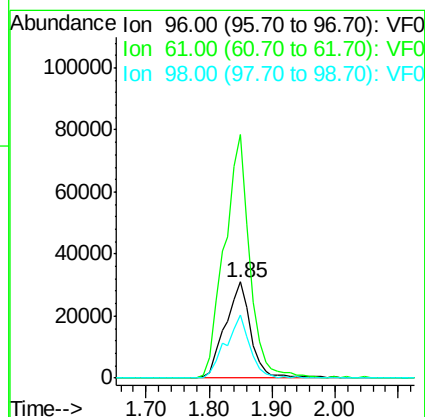
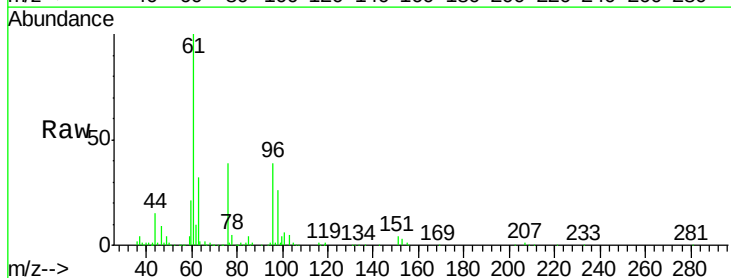
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

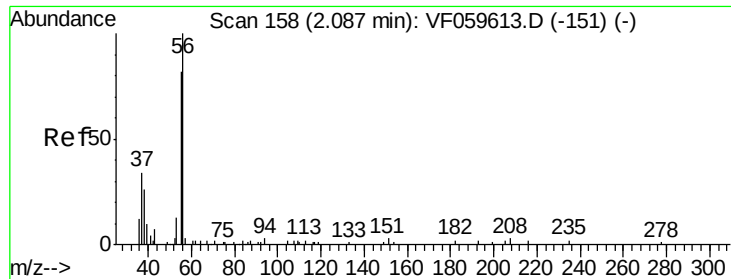
Tgt Ion: 59 Resp: 44224  
Ion Ratio Lower Upper  
59 100  
57 11.8 8.6 12.8



#12  
1,1-Dichloroethene  
Concen: 44.960 ug/l  
RT: 1.85 min Scan# 134  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion: 96 Resp: 87971  
Ion Ratio Lower Upper  
96 100  
61 253.9 207.2 310.8  
98 65.6 45.5 68.3

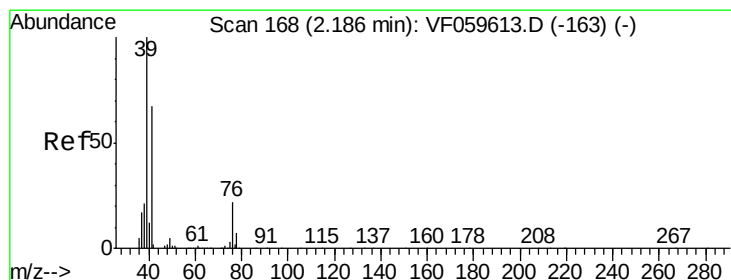
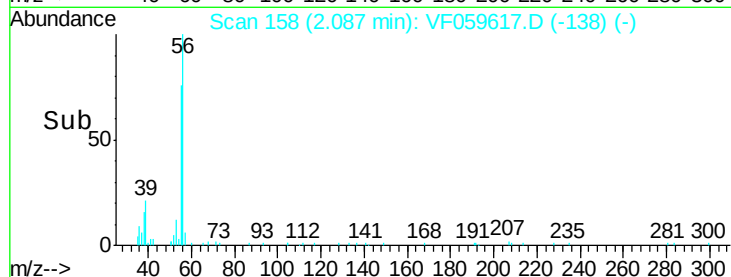
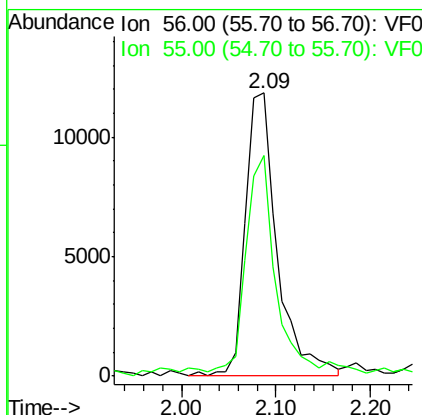
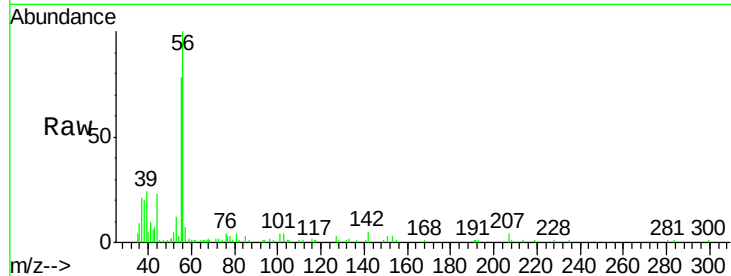




#13  
 Acrolein  
 Concen: 309.770 ug/l  
 RT: 2.09 min Scan# 158  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

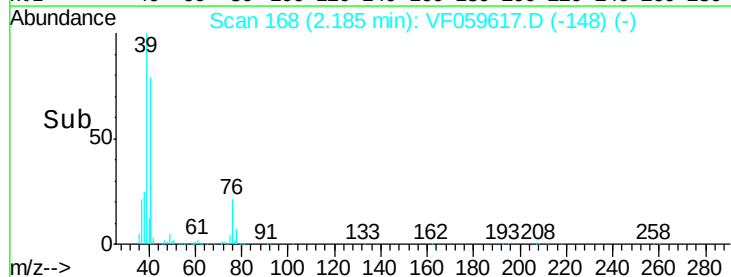
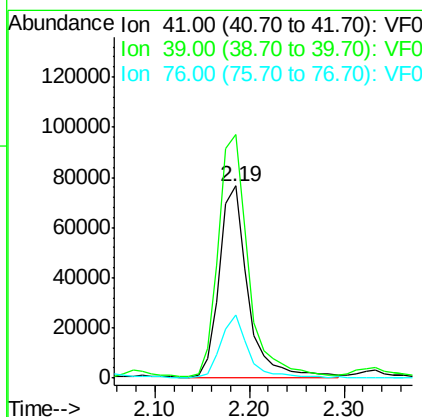
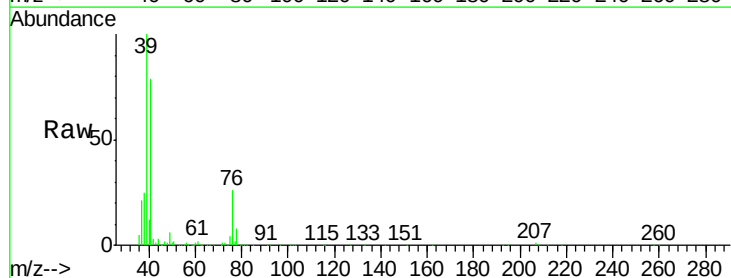
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVF072318

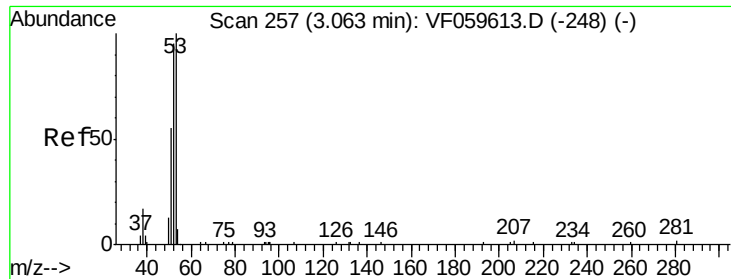
Tgt Ion: 56 Resp: 27773  
 Ion Ratio Lower Upper  
 56 100  
 55 78.0 65.6 98.4



#14  
 Allyl chloride  
 Concen: 45.201 ug/l  
 RT: 2.19 min Scan# 168  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

Tgt Ion: 41 Resp: 160116  
 Ion Ratio Lower Upper  
 41 100  
 39 126.8 119.0 178.4  
 76 32.8 26.3 39.5





#15

Acrylonitrile

Concen: 247.555 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

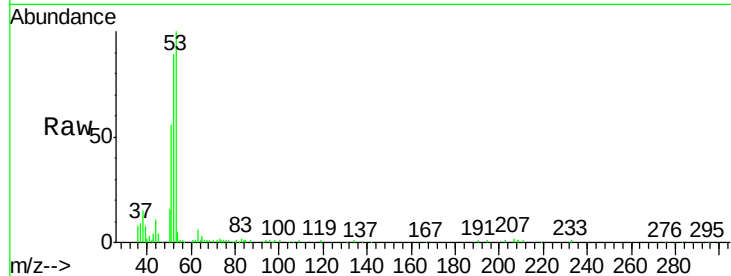
Tgt Ion: 53 Resp: 68275

Ion Ratio Lower Upper

53 100

52 88.7 76.2 114.2

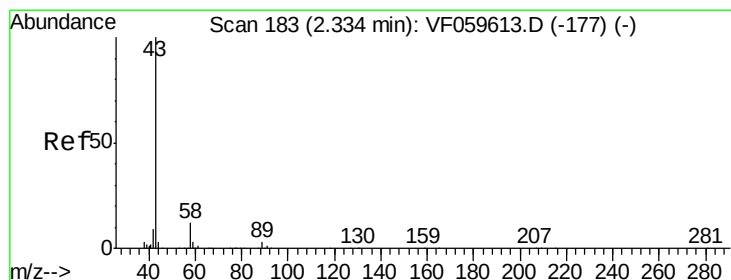
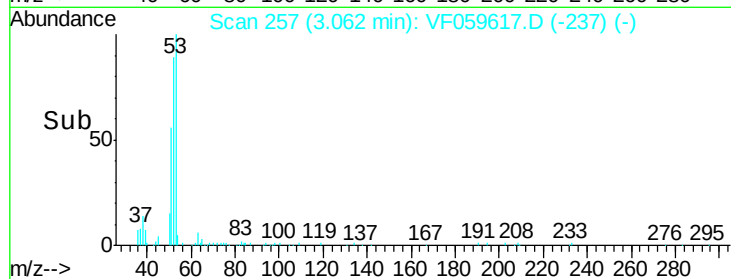
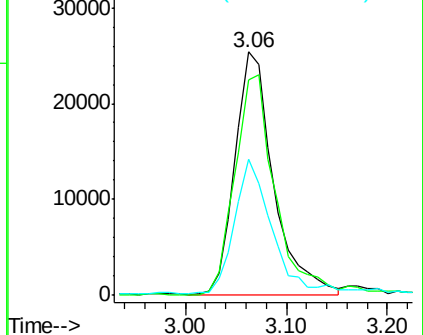
51 56.1 45.8 68.8



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 255.334 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF059617.D

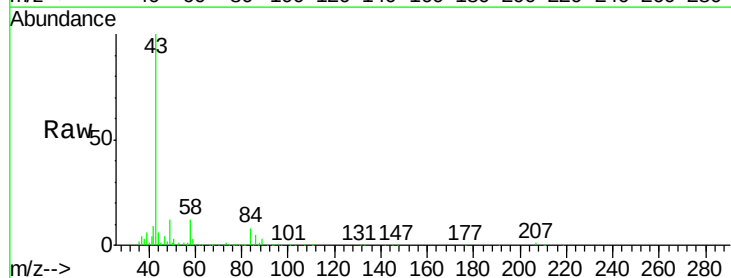
Acq: 23 Jul 2018 16:26

Tgt Ion: 43 Resp: 192301

Ion Ratio Lower Upper

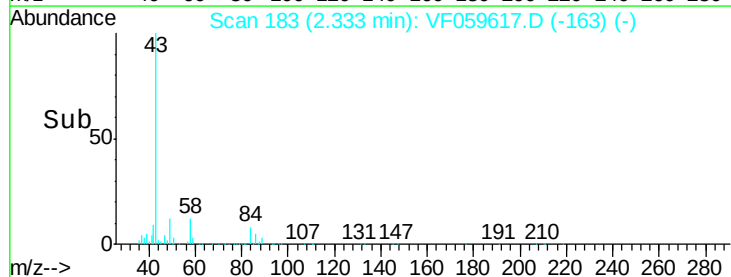
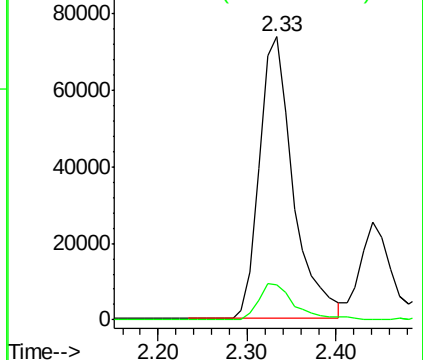
43 100

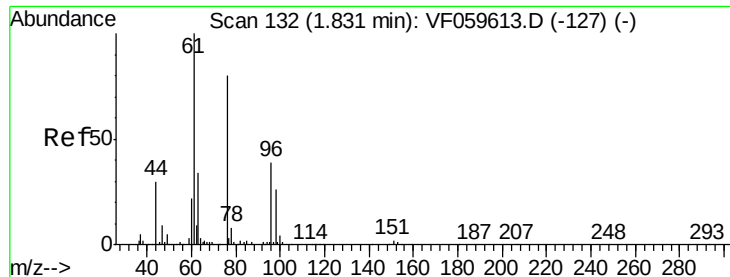
58 12.3 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

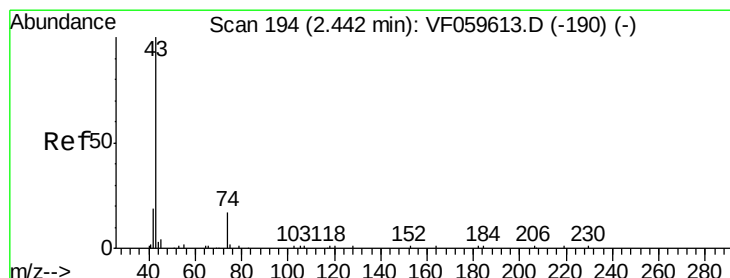
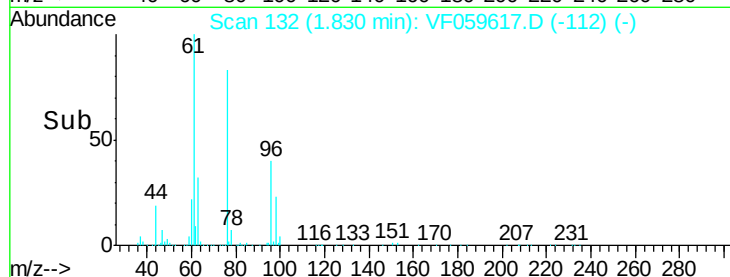
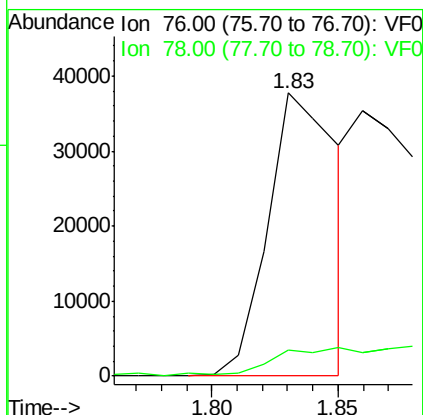
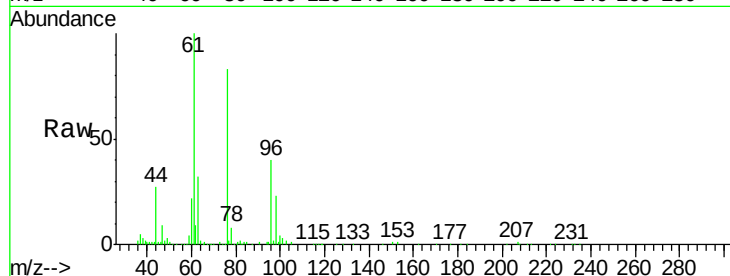




#17  
Carbon Disulfide  
Concen: 14.291 ug/l  
RT: 1.83 min Scan# 132  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

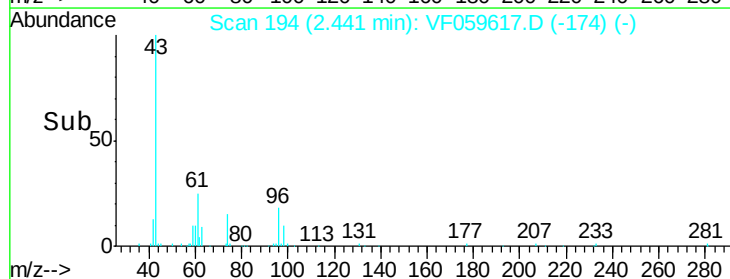
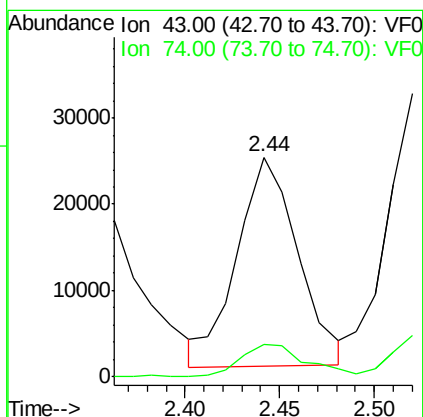
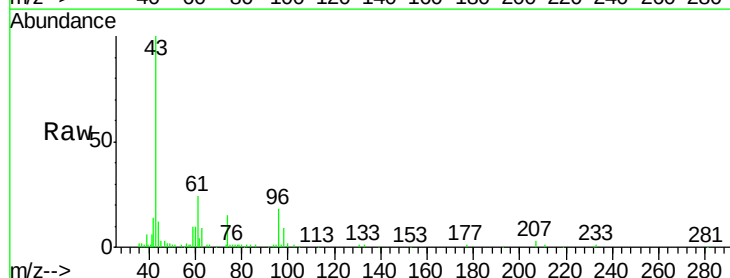
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

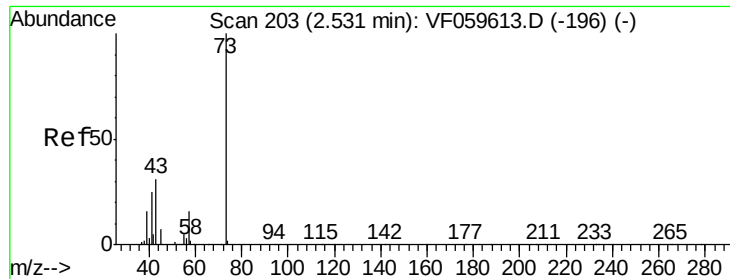
Tgt Ion: 76 Resp: 72380  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.7 11.5



#18  
Methyl Acetate  
Concen: 54.536 ug/l  
RT: 2.44 min Scan# 194  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion: 43 Resp: 54590  
Ion Ratio Lower Upper  
43 100  
74 15.0 11.4 17.0





#19

Methyl tert-butyl Ether

Concen: 47.334 ug/l

RT: 2.53 min Scan# 203

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

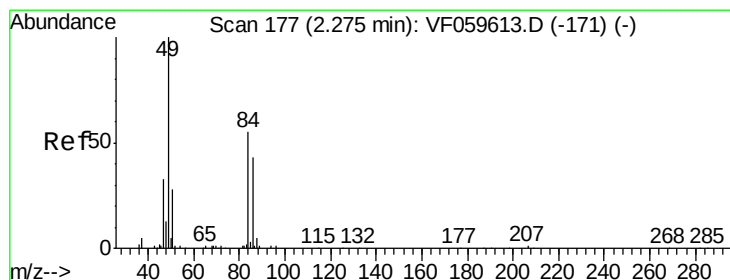
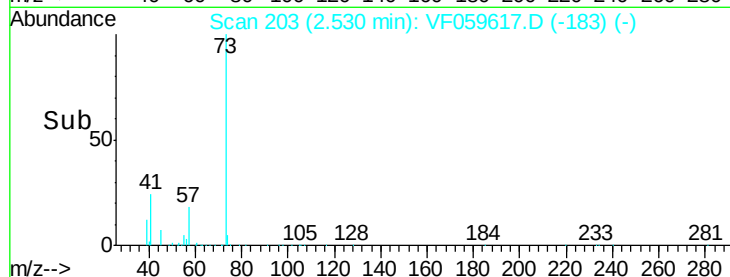
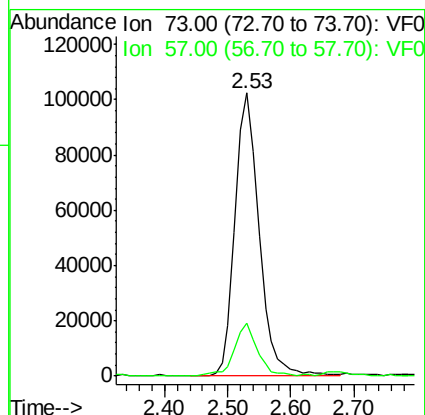
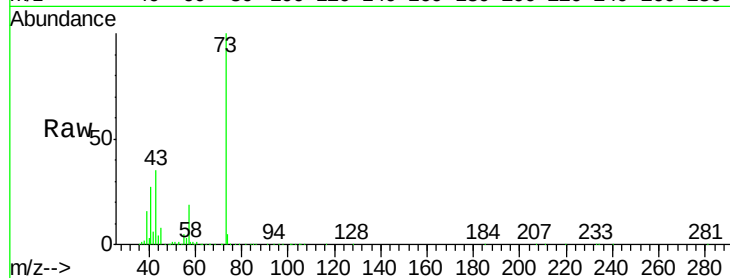
ICVVF072318

Tgt Ion: 73 Resp: 269923

Ion Ratio Lower Upper

73 100

57 18.5 13.2 19.8



#20

Methylene Chloride

Concen: 51.833 ug/l

RT: 2.26 min Scan# 176

Delta R.T. -0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Tgt Ion: 84 Resp: 88614

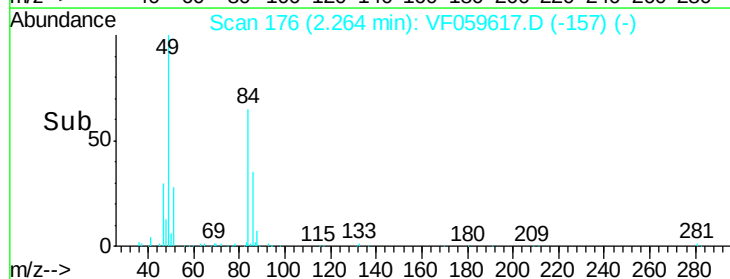
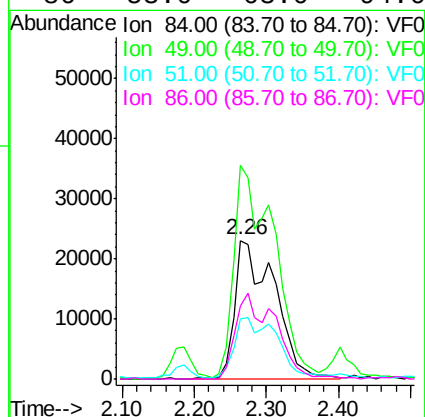
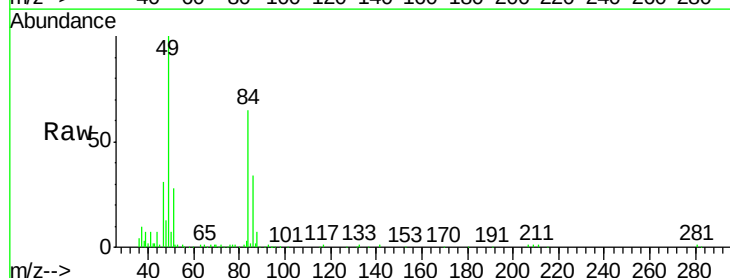
Ion Ratio Lower Upper

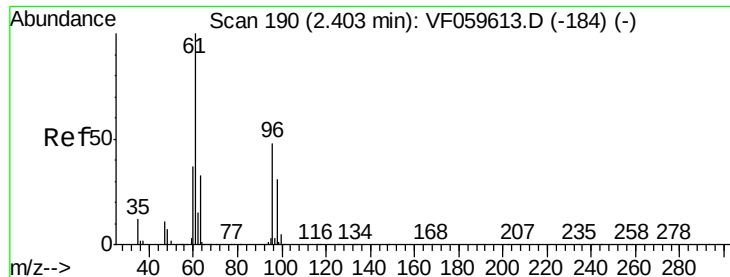
84 100

49 154.2 148.6 222.8

51 43.3 42.7 64.1

86 53.0 63.0 94.6#





#21

trans-1,2-Dichloroethene

Concen: 44.780 ug/l

RT: 2.40 min Scan# 190

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

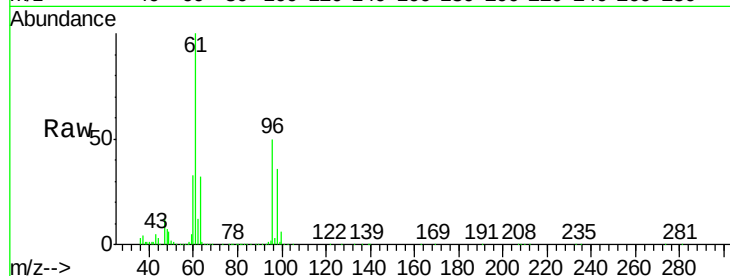
Tgt Ion: 96 Resp: 90063

Ion Ratio Lower Upper

96 100

61 198.1 167.0 250.6

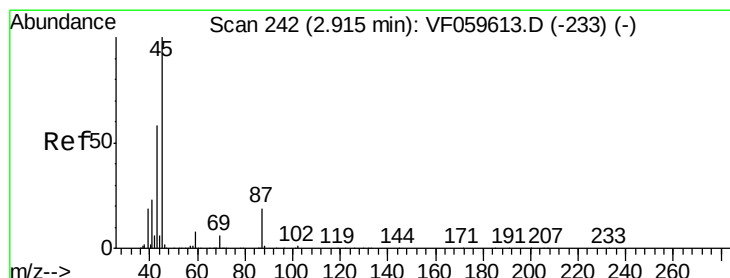
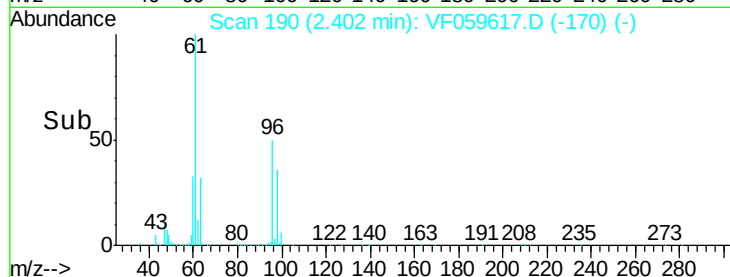
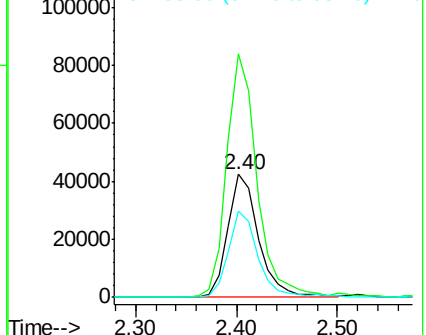
98 70.5 51.8 77.8



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 50.138 ug/l

RT: 2.91 min Scan# 242

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Tgt Ion: 45 Resp: 325476

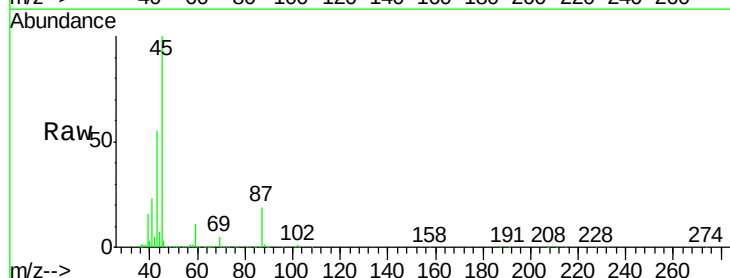
Ion Ratio Lower Upper

45 100

43 55.1 46.7 70.1

87 18.7 15.0 22.6

59 10.6 7.0 10.4#

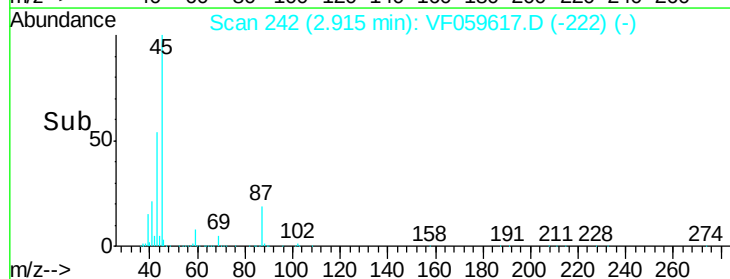
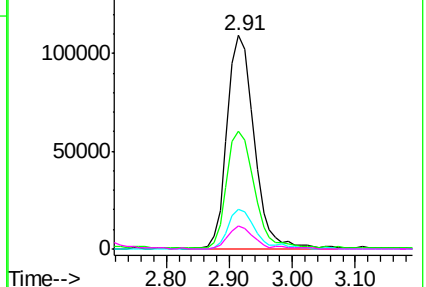


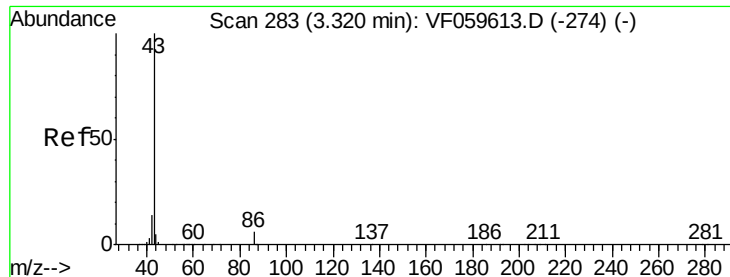
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 256.084 ug/l

RT: 3.33 min Scan# 284

Delta R.T. 0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

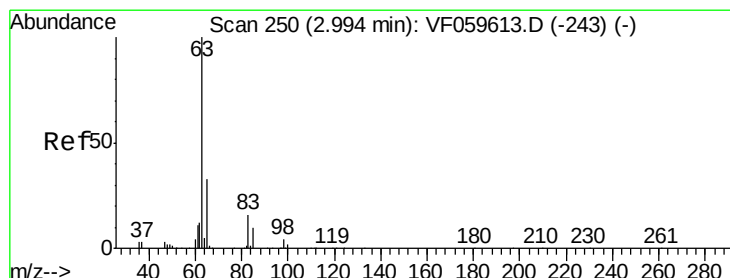
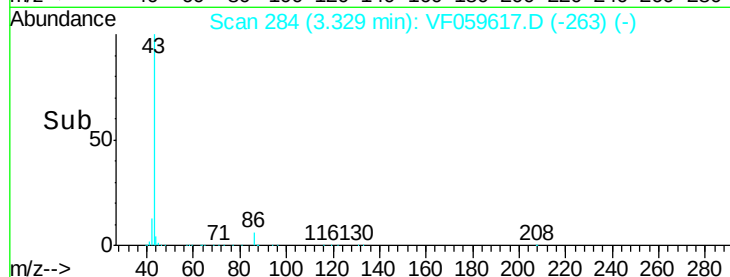
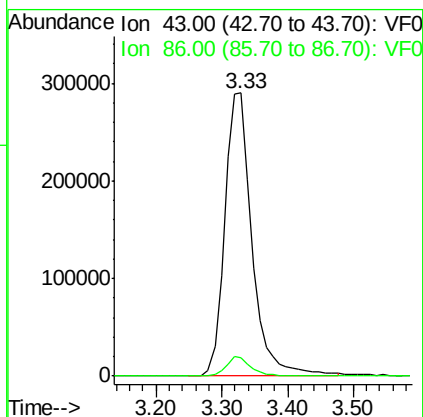
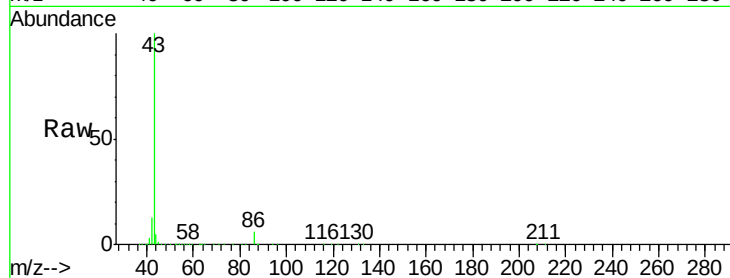
ICVVF072318

Tgt Ion: 43 Resp: 836744

Ion Ratio Lower Upper

43 100

86 6.4 4.6 6.8



#24

1,1-Dichloroethane

Concen: 46.321 ug/l

RT: 2.99 min Scan# 250

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

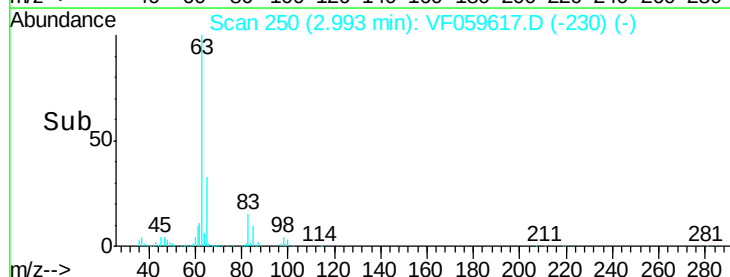
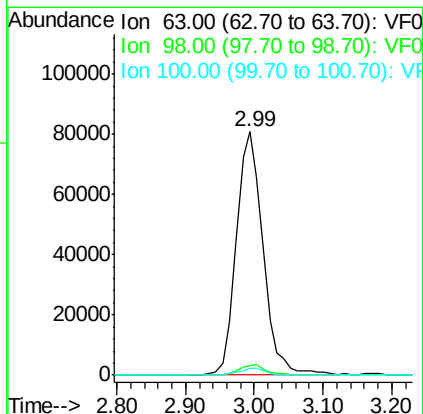
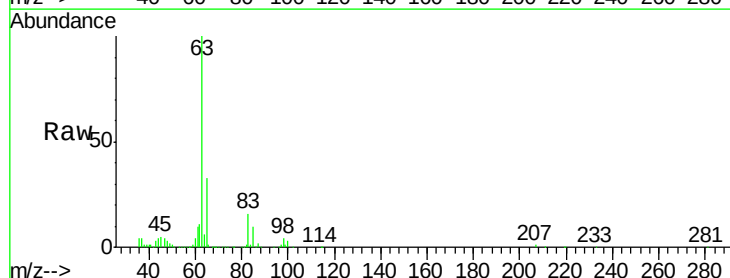
Tgt Ion: 63 Resp: 215530

Ion Ratio Lower Upper

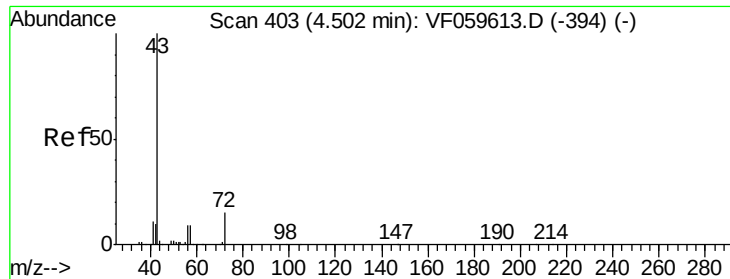
63 100

98 4.1 1.9 5.7

100 2.9 1.2 3.6







#25

2-Butanone

Concen: 258.861 ug/l

RT: 4.50 min Scan# 403

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

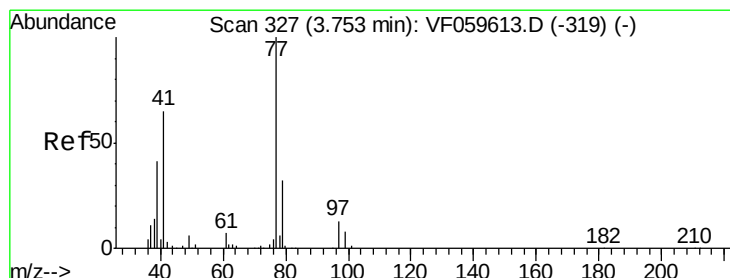
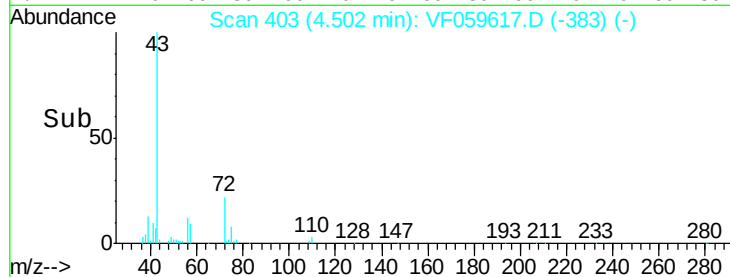
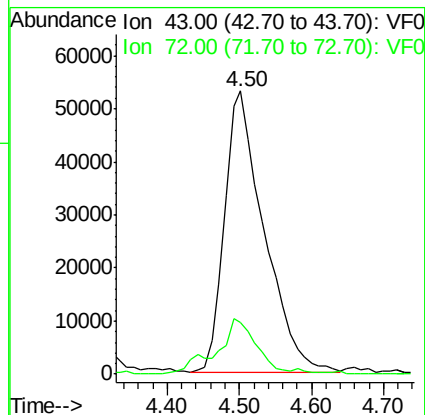
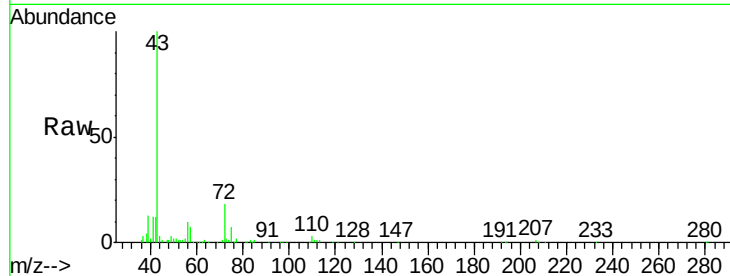
ICVVF072318

Tgt Ion: 43 Resp: 201001

Ion Ratio Lower Upper

43 100

72 18.2 12.9 19.3



#26

2,2-Dichloropropane

Concen: 44.791 ug/l

RT: 3.75 min Scan# 327

Delta R.T. -0.00 min

Lab File: VF059617.D

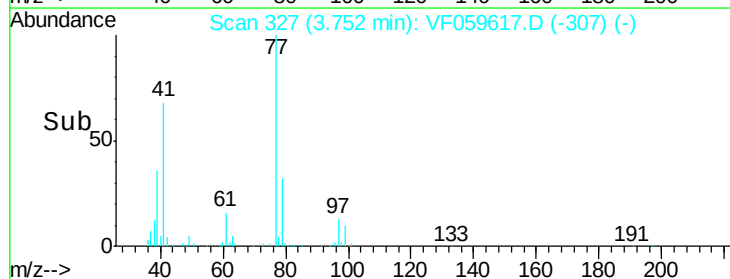
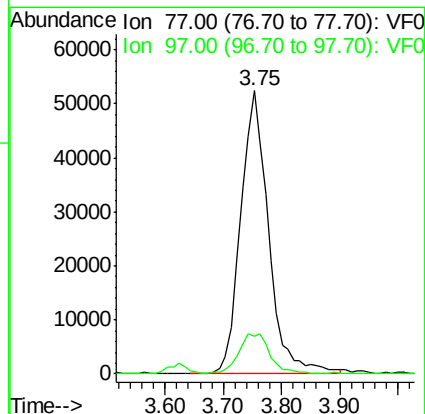
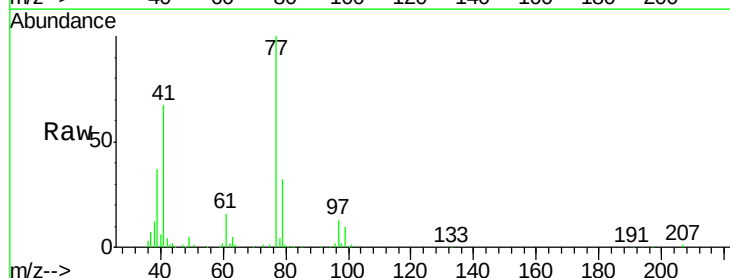
Acq: 23 Jul 2018 16:26

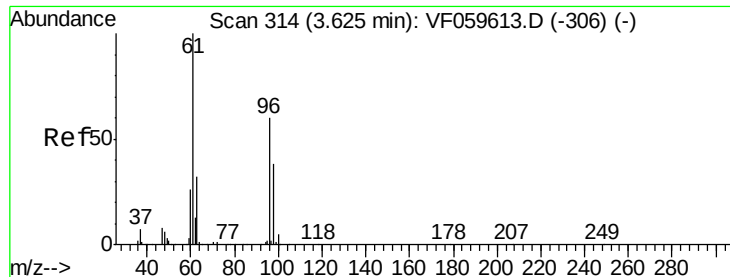
Tgt Ion: 77 Resp: 175651

Ion Ratio Lower Upper

77 100

97 13.3 7.1 21.3



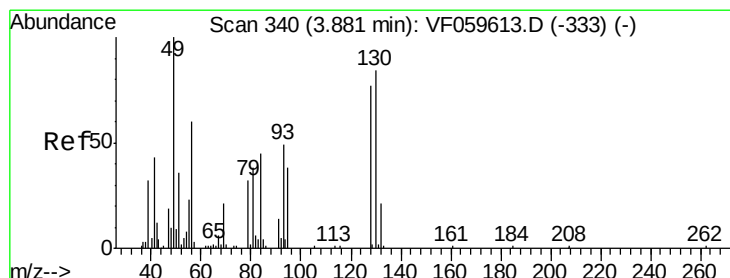
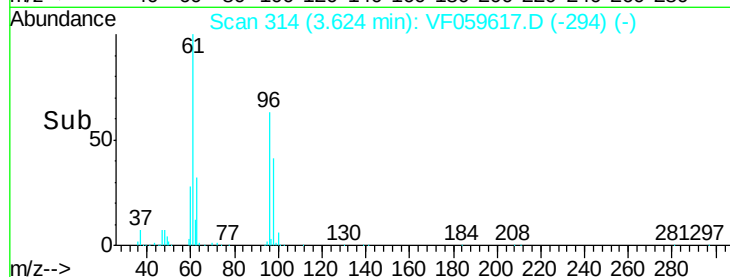
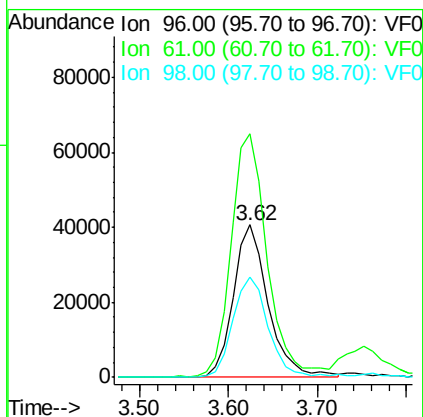
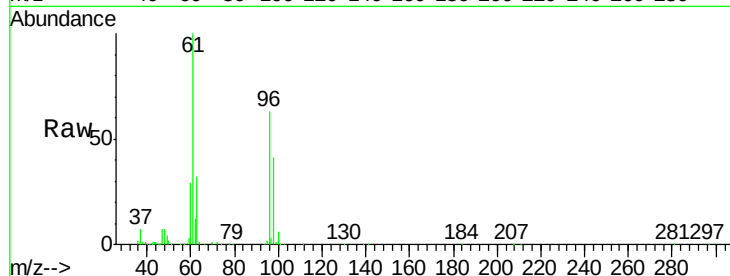


#27

cis-1,2-Dichloroethene  
 Concen: 48.009 ug/l  
 RT: 3.62 min Scan# 314  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVF072318

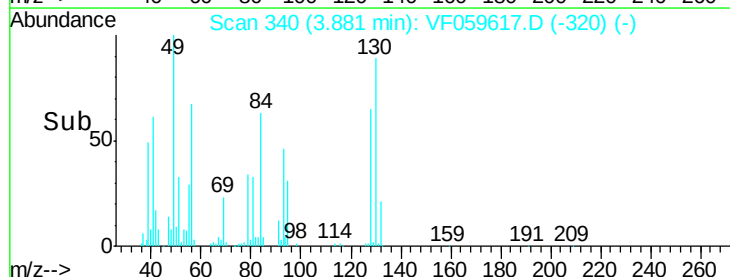
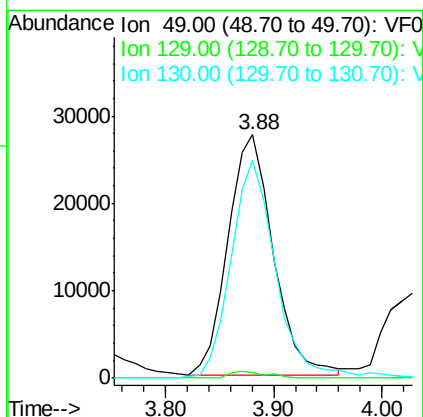
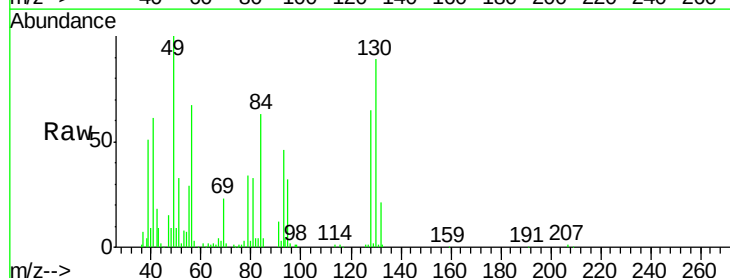
Tgt Ion: 96 Resp: 110670  
 Ion Ratio Lower Upper  
 96 100  
 61 159.9 0.0 335.2  
 98 66.2 0.0 126.6

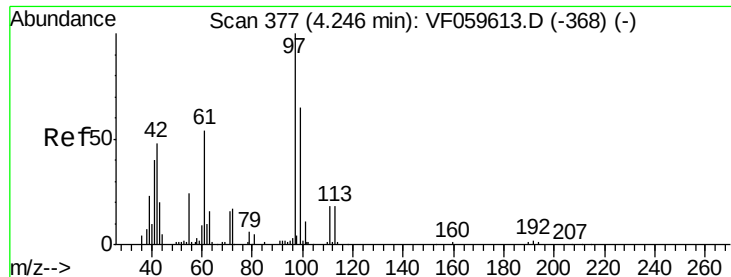


#28

Bromochloromethane  
 Concen: 47.124 ug/l  
 RT: 3.88 min Scan# 340  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

Tgt Ion: 49 Resp: 80605  
 Ion Ratio Lower Upper  
 49 100  
 129 2.3 0.0 4.6  
 130 89.5 67.1 100.7

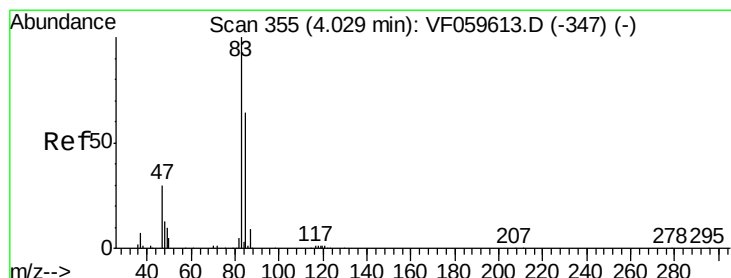
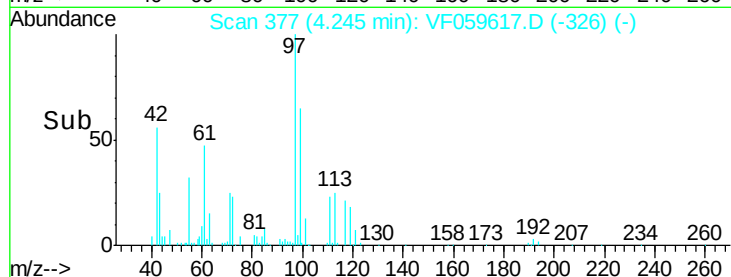
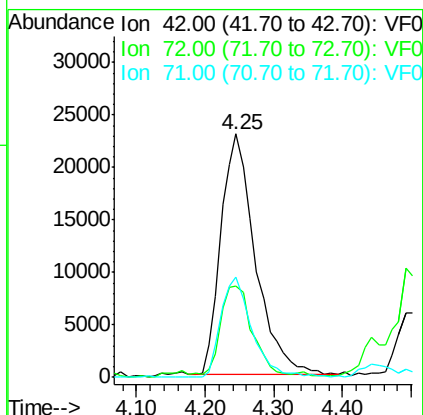
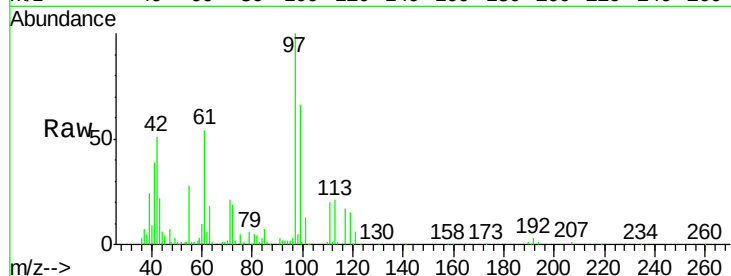




#29  
Tetrahydrofuran  
Concen: 253.455 ug/l  
RT: 4.25 min Scan# 377  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

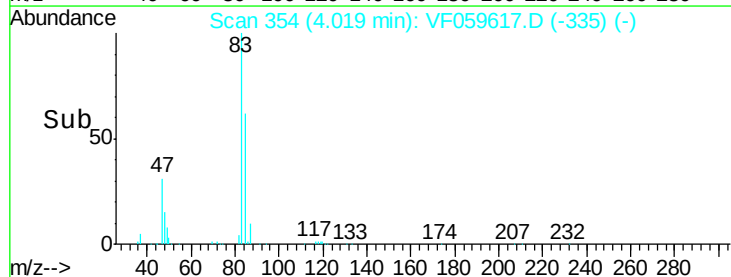
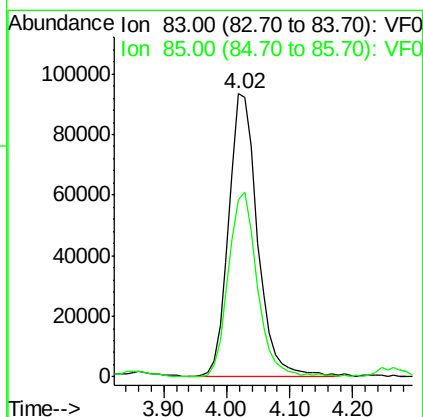
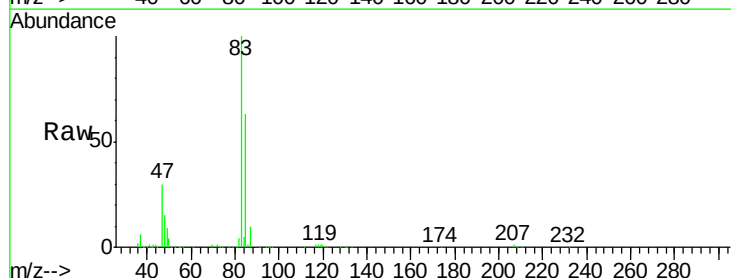
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

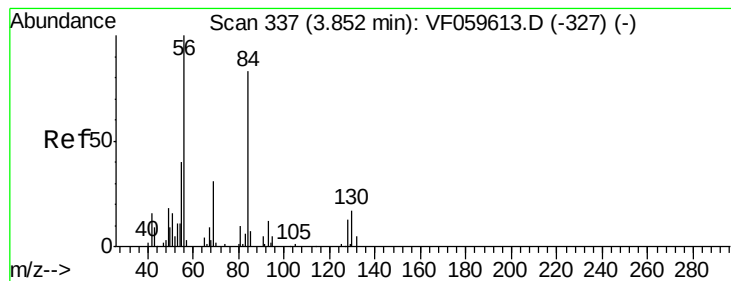
Tgt Ion: 42 Resp: 79734  
Ion Ratio Lower Upper  
42 100  
72 32.7 27.9 41.9  
71 37.6 29.3 43.9



#30  
Chloroform  
Concen: 46.063 ug/l  
RT: 4.02 min Scan# 354  
Delta R.T. -0.01 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion: 83 Resp: 294626  
Ion Ratio Lower Upper  
83 100  
85 62.7 51.1 76.7





#31

Cyclohexane

Concen: 49.023 ug/l

RT: 3.85 min Scan# 337

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

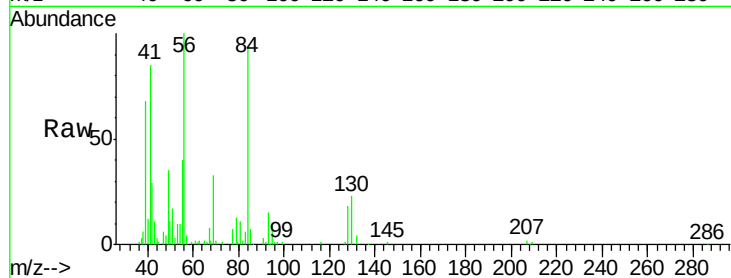
Tgt Ion: 56 Resp: 126923

Ion Ratio Lower Upper

56 100

69 33.4 24.6 37.0

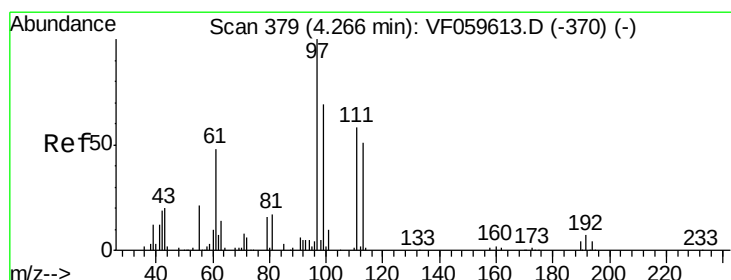
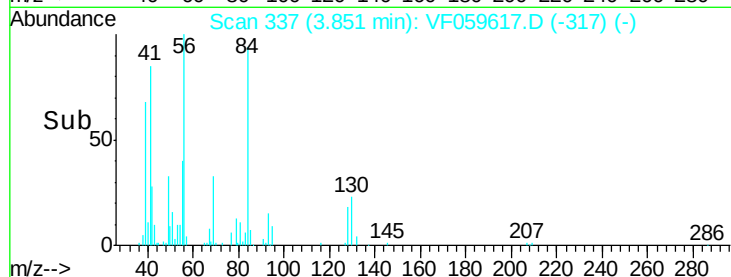
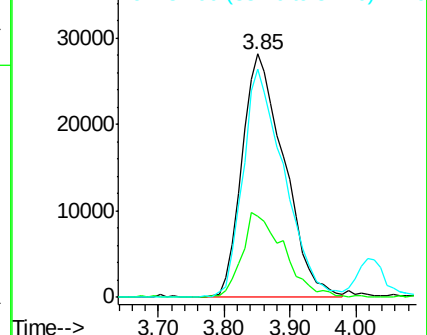
84 93.8 66.6 99.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 43.545 ug/l

RT: 4.26 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

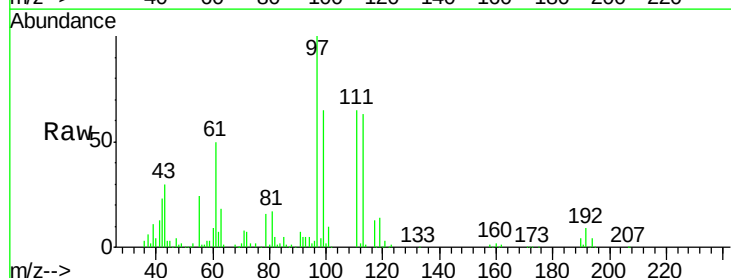
Tgt Ion: 97 Resp: 252225

Ion Ratio Lower Upper

97 100

99 64.7 55.4 83.2

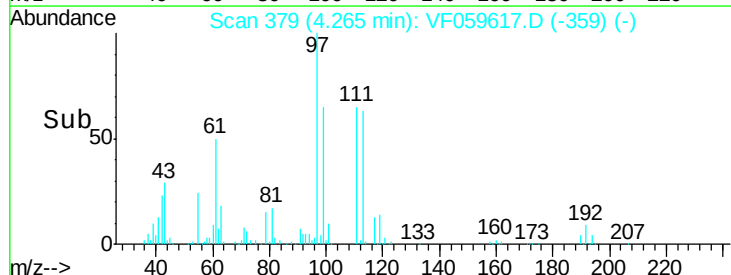
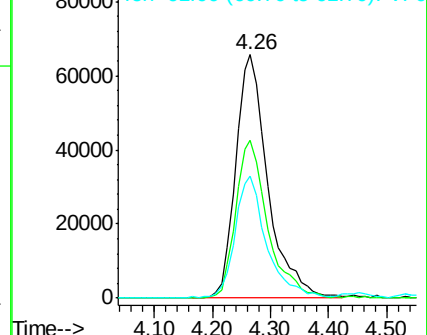
61 50.3 39.3 58.9

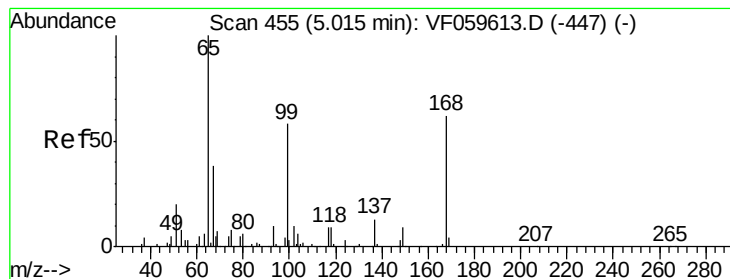


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 46.995 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

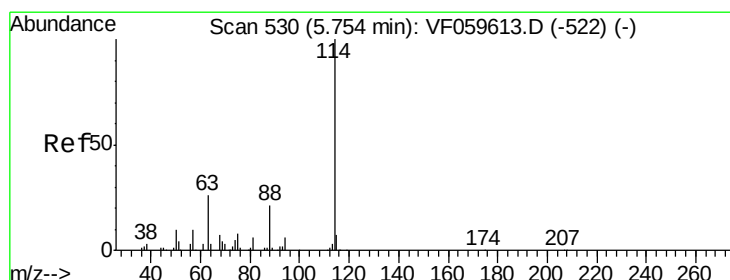
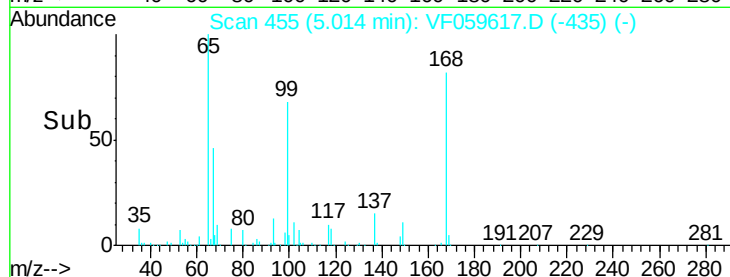
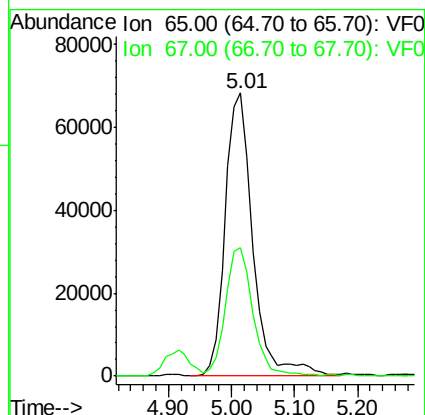
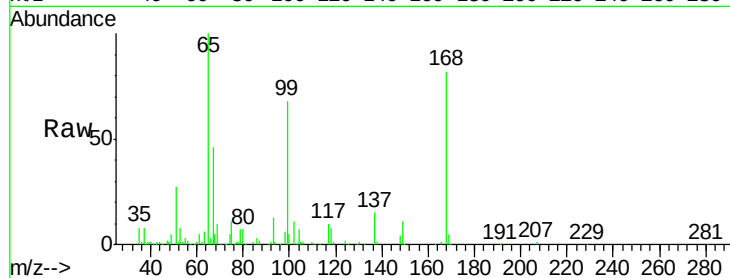
ICVVF072318

Tgt Ion: 65 Resp: 206428

Ion Ratio Lower Upper

65 100

67 45.6 0.0 83.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

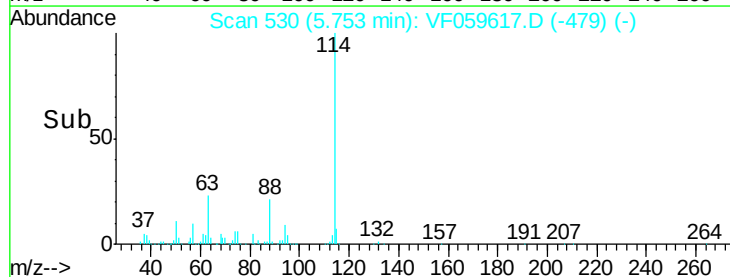
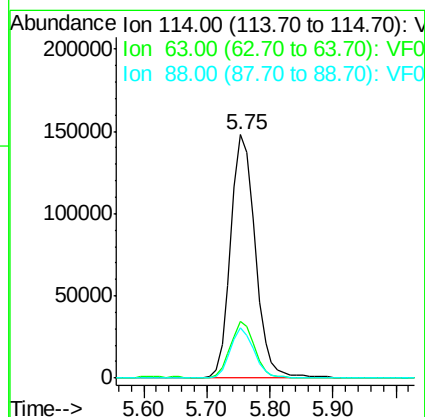
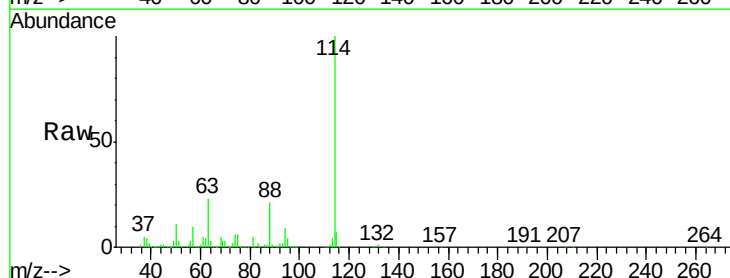
Tgt Ion: 114 Resp: 401145

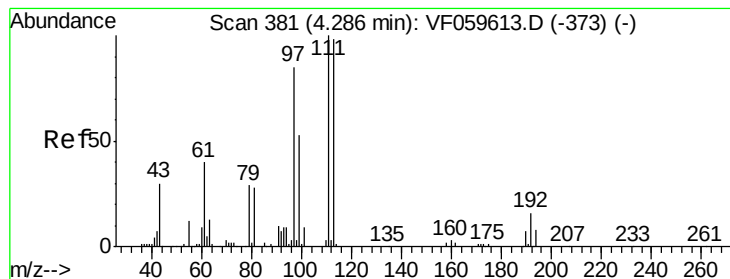
Ion Ratio Lower Upper

114 100

63 23.2 0.0 51.8

88 20.6 0.0 42.8





#35

Dibromofluoromethane

Concen: 50.463 ug/l

RT: 4.28 min Scan# 381

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

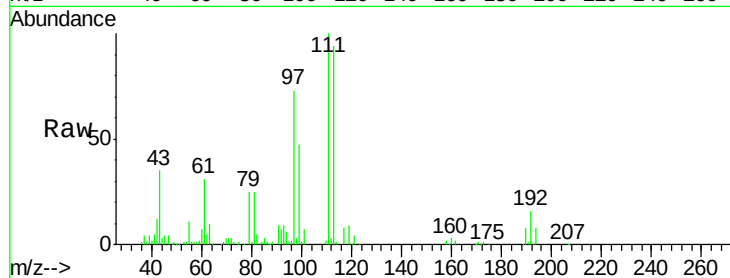
Tgt Ion: 113 Resp: 186769

Ion Ratio Lower Upper

113 100

111 106.2 81.5 122.3

192 17.4 13.4 20.2



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

80000

60000

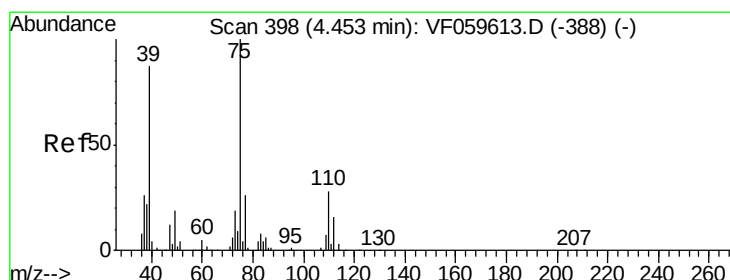
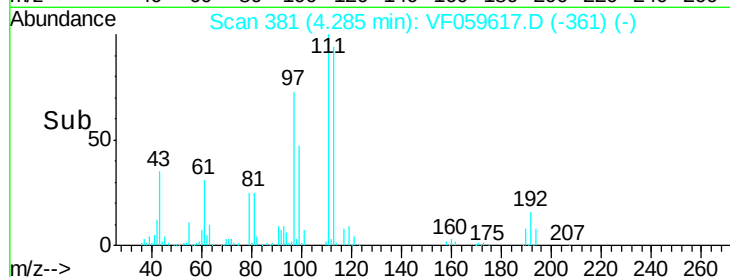
40000

20000

0

4.10 4.20 4.30 4.40

Time-->



#36

1,1-Dichloropropene

Concen: 46.448 ug/l

RT: 4.44 min Scan# 397

Delta R.T. -0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

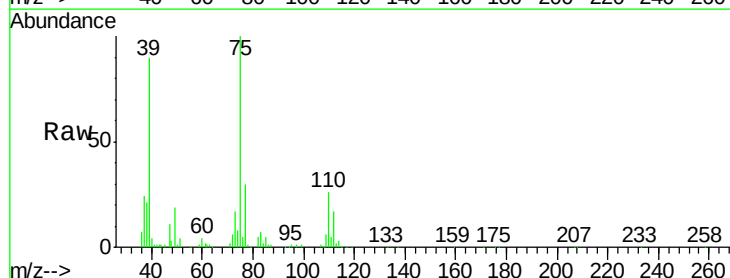
Tgt Ion: 75 Resp: 188701

Ion Ratio Lower Upper

75 100

110 26.4 14.2 42.6

77 30.5 20.3 30.5#



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

80000

60000

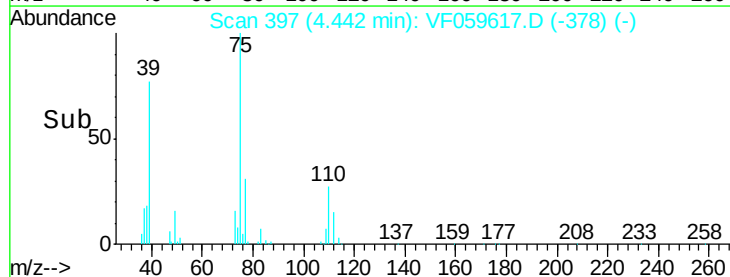
40000

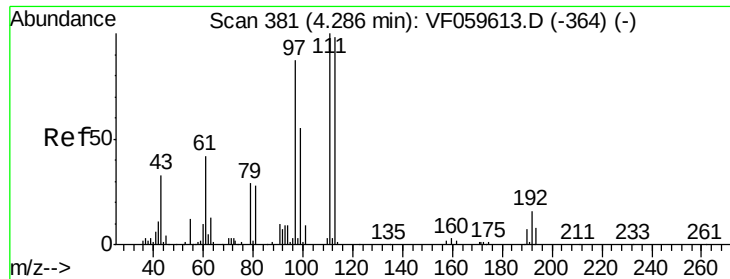
20000

0

4.30 4.40 4.50 4.60

Time-->





#37

Ethyl Acetate

Concen: 54.239 ug/l

RT: 4.27 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

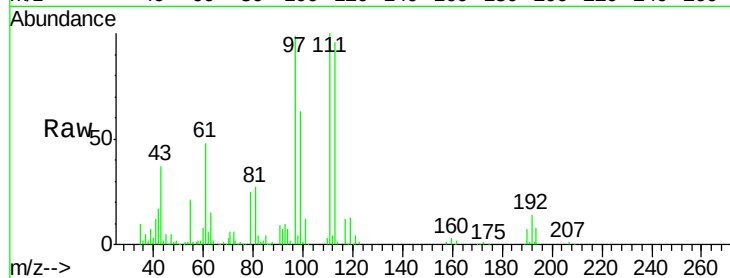
Tgt Ion: 43 Resp: 88582

Ion Ratio Lower Upper

43 100

61 127.3 101.9 152.9

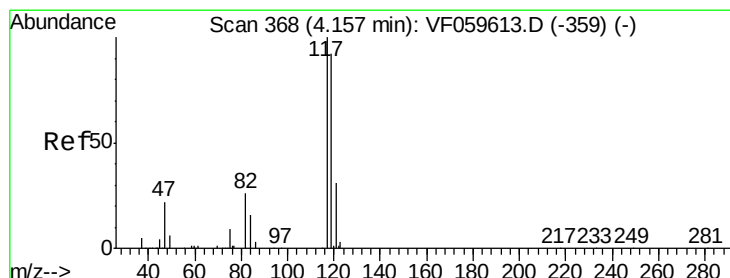
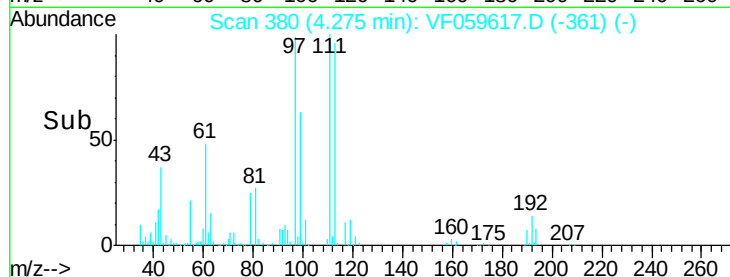
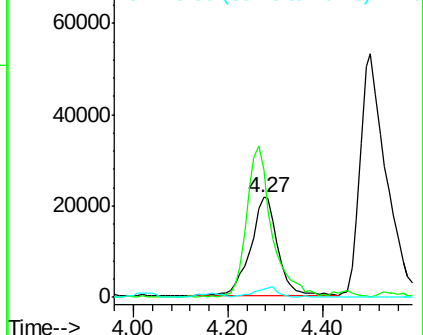
70 7.8 7.9 11.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 41.783 ug/l

RT: 4.16 min Scan# 368

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

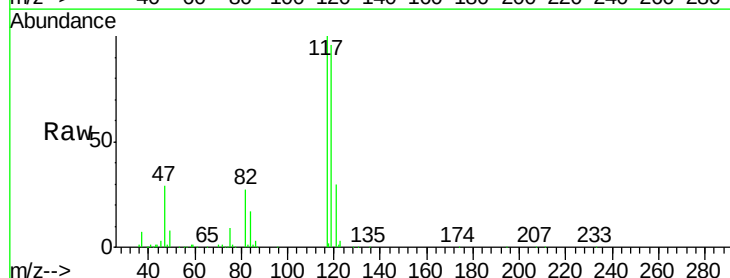
Tgt Ion: 117 Resp: 261918

Ion Ratio Lower Upper

117 100

119 96.0 74.2 111.4

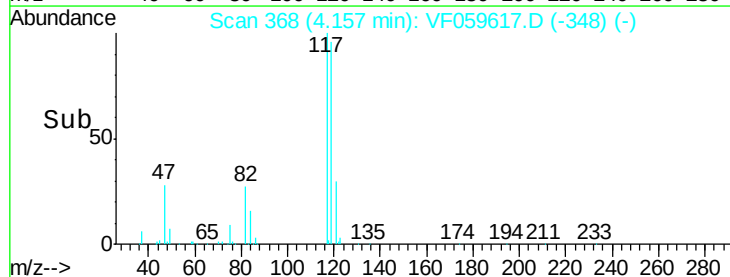
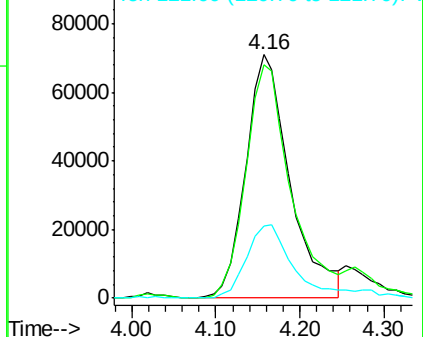
121 29.7 24.7 37.1

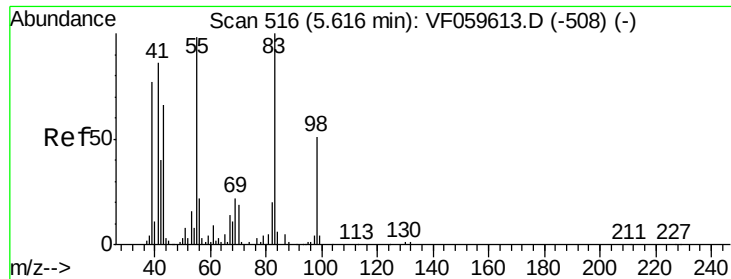


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

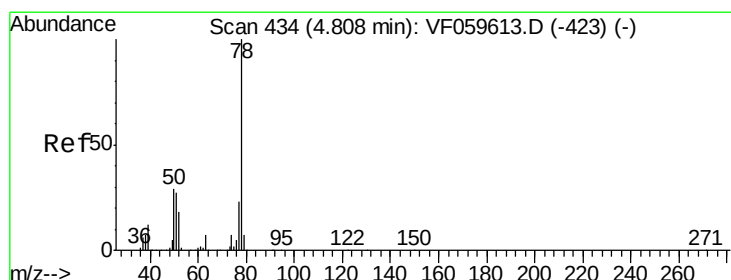
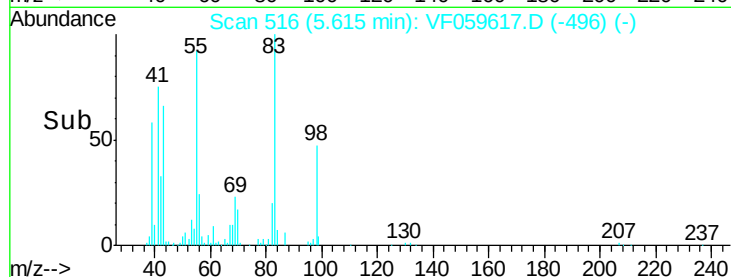
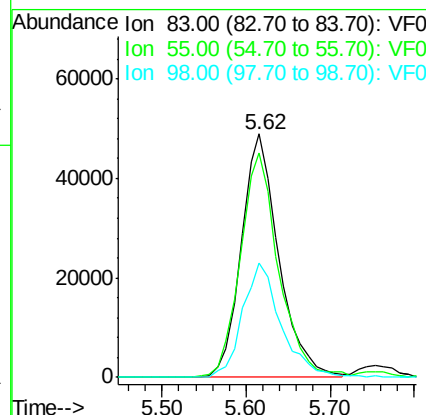
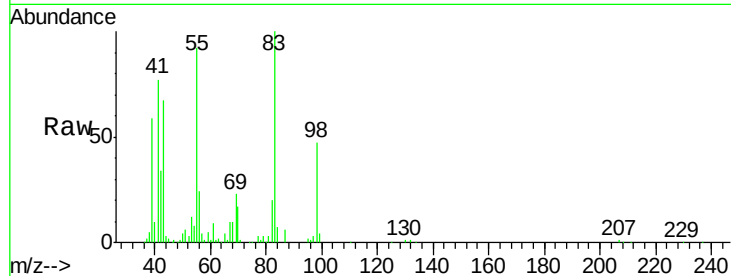




#39  
Methylcyclohexane  
Concen: 46.207 ug/l  
RT: 5.62 min Scan# 516  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

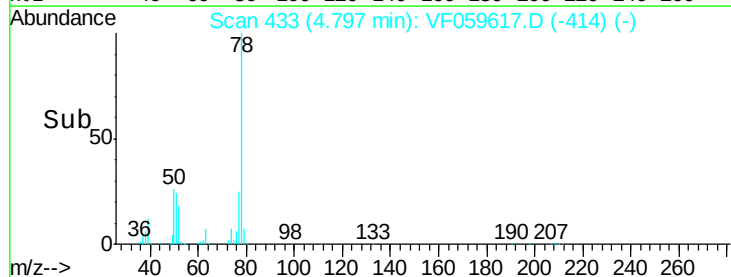
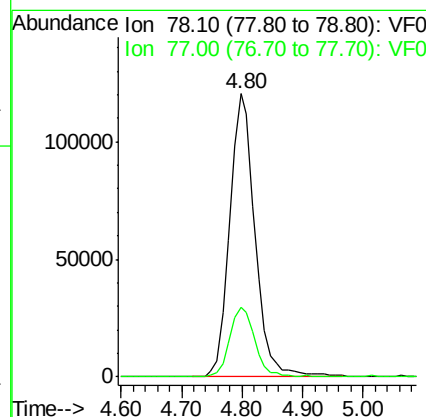
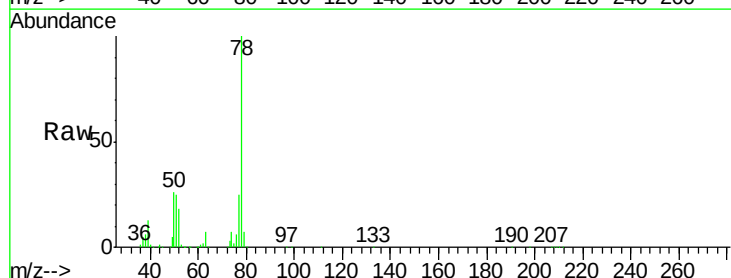
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

Tgt Ion: 83 Resp: 152286  
Ion Ratio Lower Upper  
83 100  
55 92.3 78.5 117.7  
98 47.0 41.1 61.7

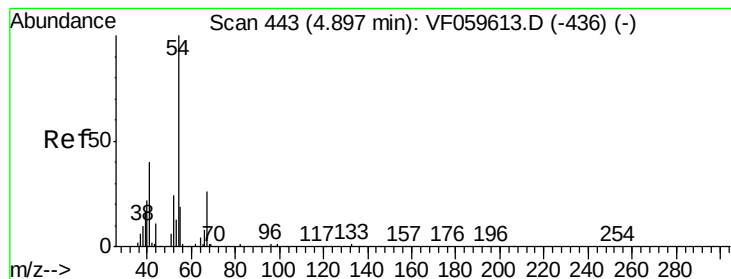


#40  
Benzene  
Concen: 47.053 ug/l  
RT: 4.80 min Scan# 433  
Delta R.T. -0.01 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion: 78 Resp: 349316  
Ion Ratio Lower Upper  
78 100  
77 24.7 18.4 27.6







#41

Methacrylonitrile

Concen: 49.201 ug/l

RT: 4.91 min Scan# 444

Delta R.T. 0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

Tgt Ion: 41 Resp: 41194

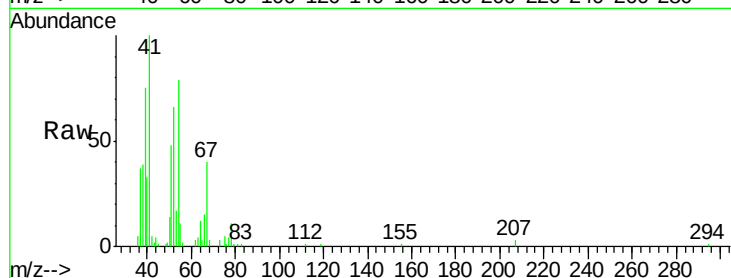
Ion Ratio Lower Upper

41 100

39 74.8 58.2 87.4

67 39.9 51.0 76.6#

52 66.2 80.1 120.1#

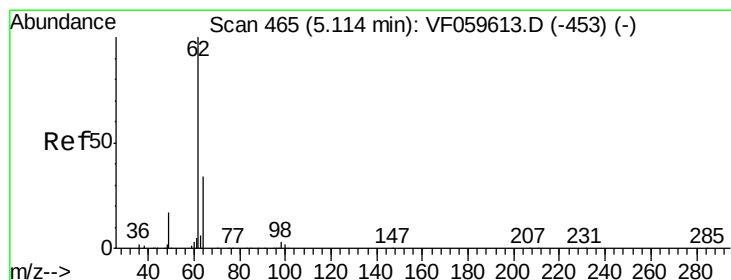
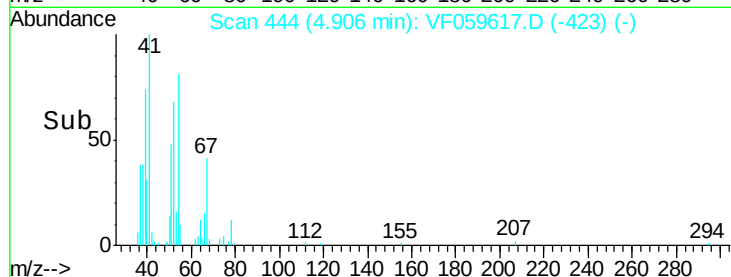
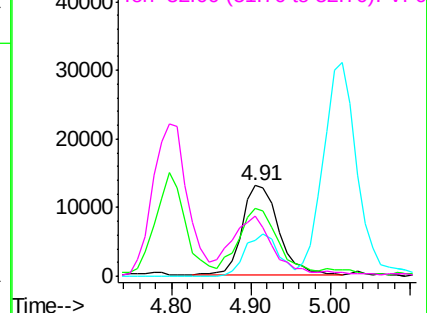


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 42.483 ug/l

RT: 5.10 min Scan# 464

Delta R.T. -0.01 min

Lab File: VF059617.D

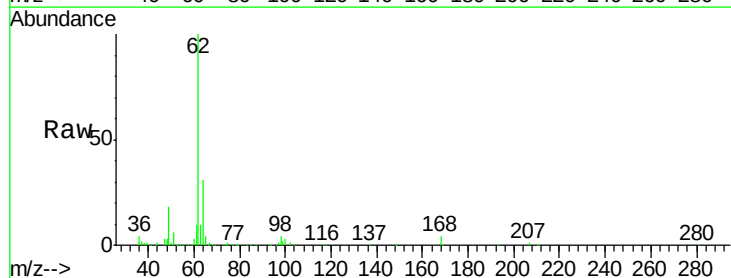
Acq: 23 Jul 2018 16:26

Tgt Ion: 62 Resp: 212939

Ion Ratio Lower Upper

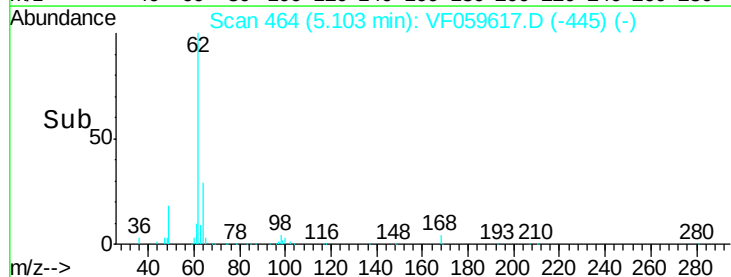
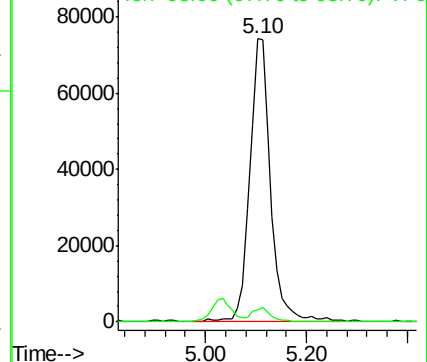
62 100

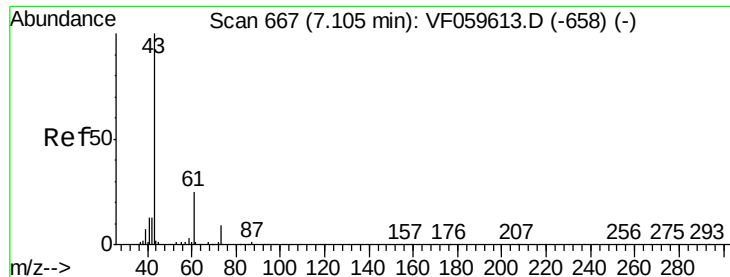
98 4.3 0.0 8.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 51.455 ug/l

RT: 7.10 min Scan# 667

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

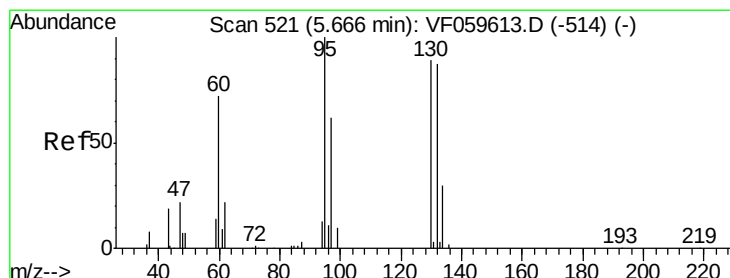
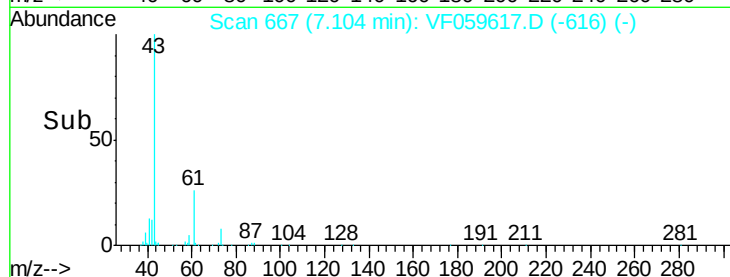
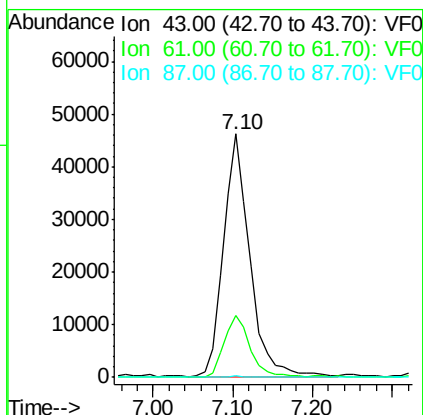
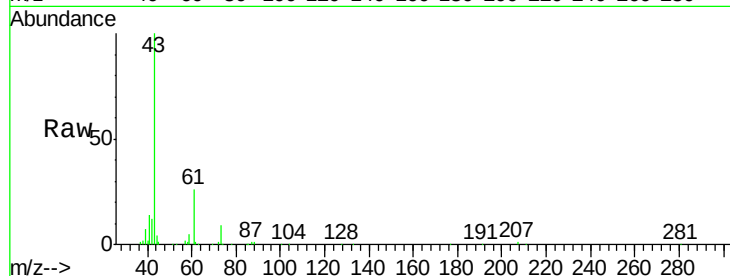
Tgt Ion: 43 Resp: 107388

Ion Ratio Lower Upper

43 100

61 25.6 20.1 30.1

87 0.7 0.5 0.7



#44

Trichloroethene

Concen: 45.154 ug/l

RT: 5.66 min Scan# 521

Delta R.T. -0.00 min

Lab File: VF059617.D

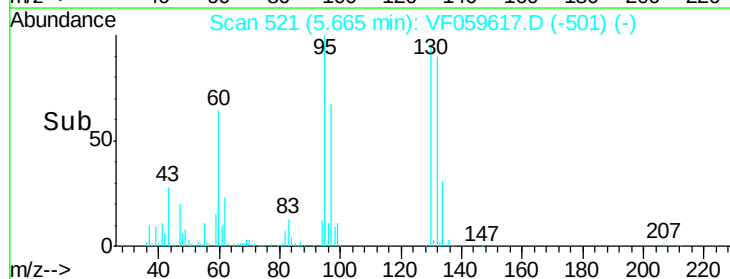
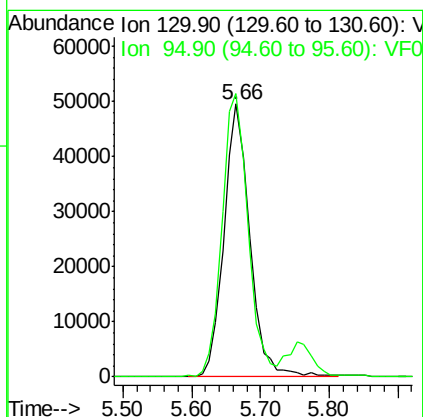
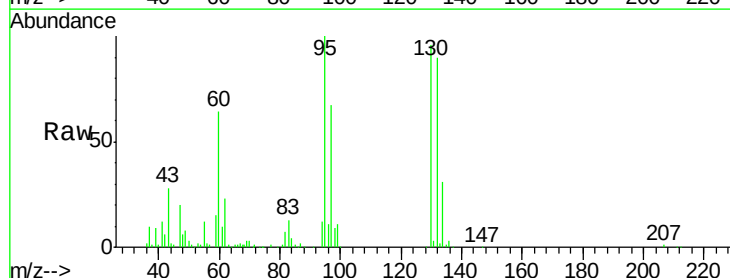
Acq: 23 Jul 2018 16:26

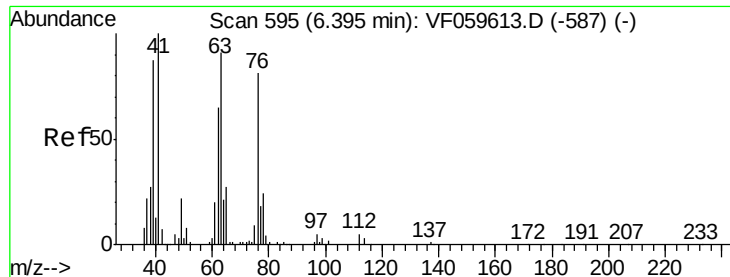
Tgt Ion: 130 Resp: 129218

Ion Ratio Lower Upper

130 100

95 103.8 0.0 226.4





#45

1,2-Dichloropropane

Concen: 44.470 ug/l

RT: 6.39 min Scan# 595

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

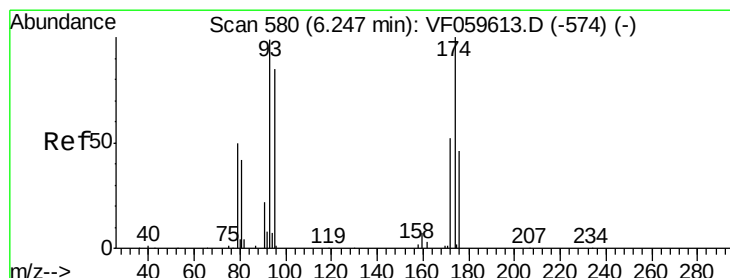
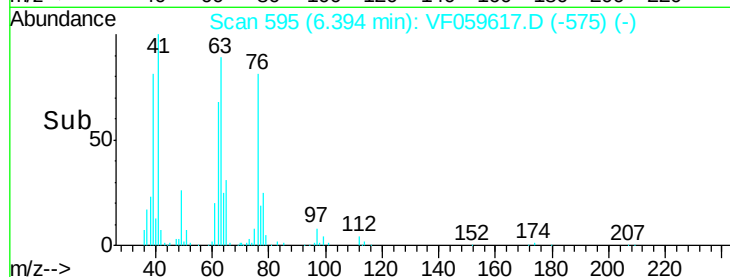
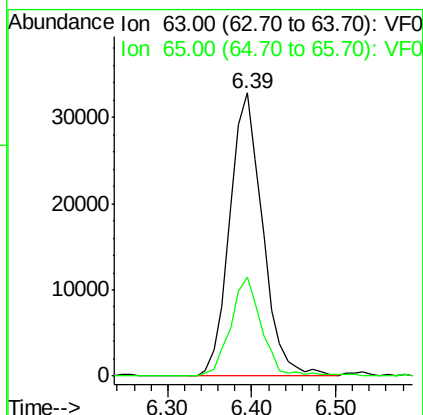
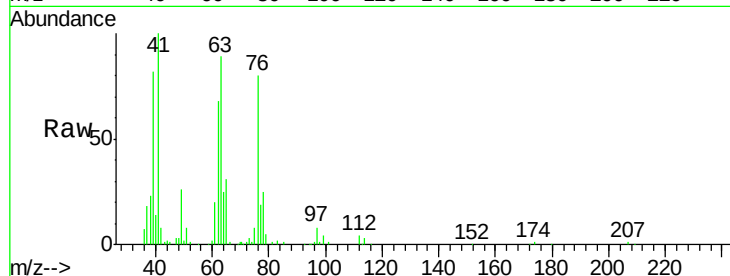
ICVVF072318

Tgt Ion: 63 Resp: 89381

Ion Ratio Lower Upper

63 100

65 34.8 23.4 35.0



#46

Dibromomethane

Concen: 56.331 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

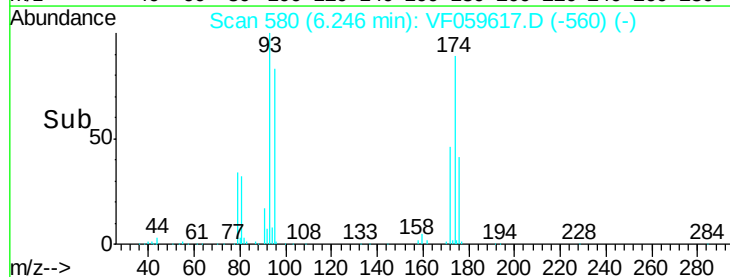
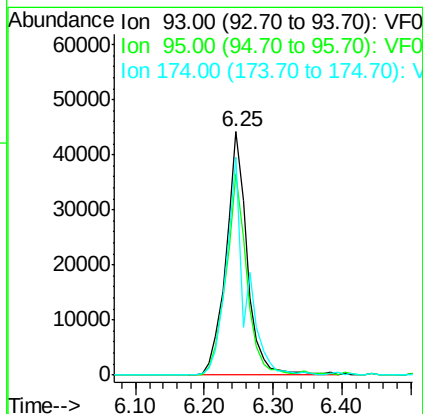
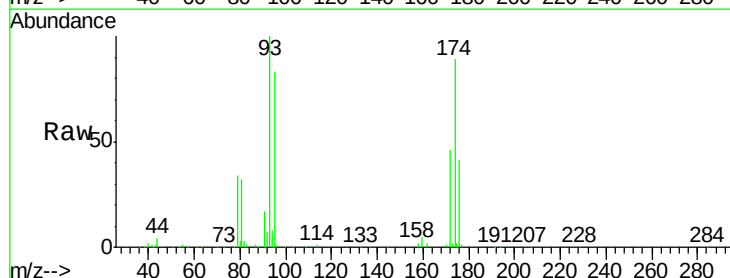
Tgt Ion: 93 Resp: 93783

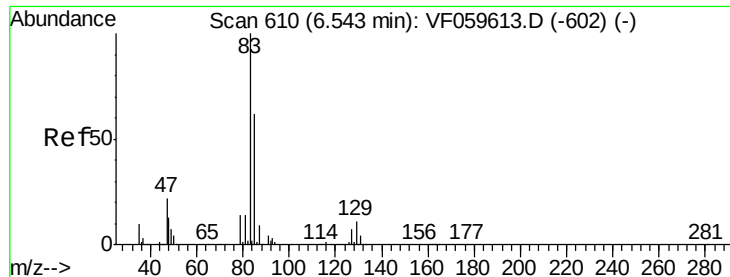
Ion Ratio Lower Upper

93 100

95 82.6 68.6 102.8

174 91.1 80.8 121.2





#47

Bromodichloromethane

Concen: 44.161 ug/l

RT: 6.54 min Scan# 610

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

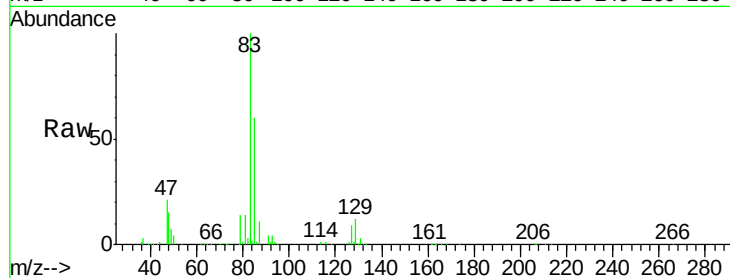
Tgt Ion: 83 Resp: 223123

Ion Ratio Lower Upper

83 100

85 59.9 49.4 74.0

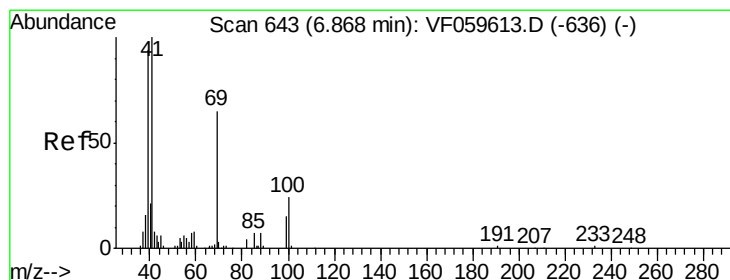
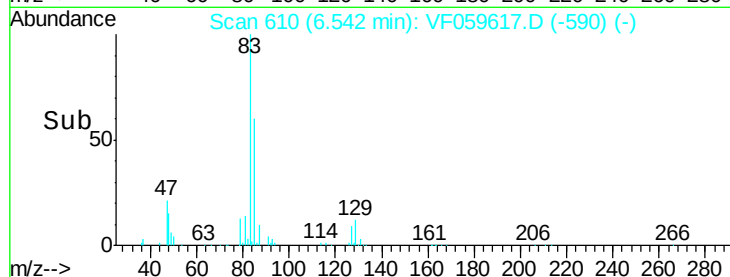
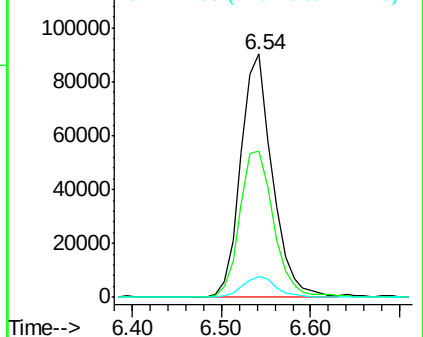
127 8.8 5.9 8.9



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: 47.545 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

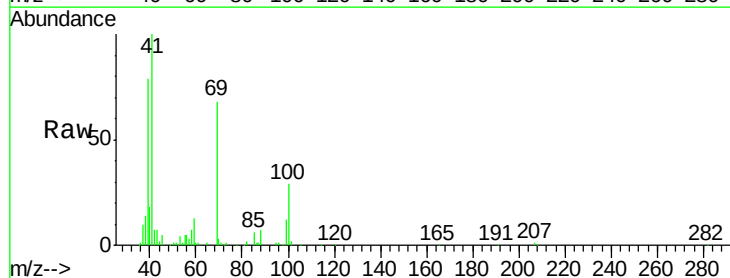
Tgt Ion: 41 Resp: 74217

Ion Ratio Lower Upper

41 100

69 68.3 51.6 77.4

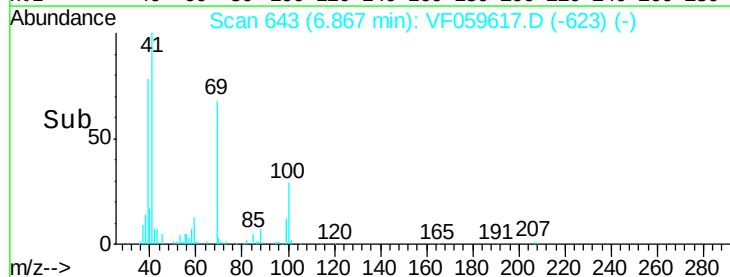
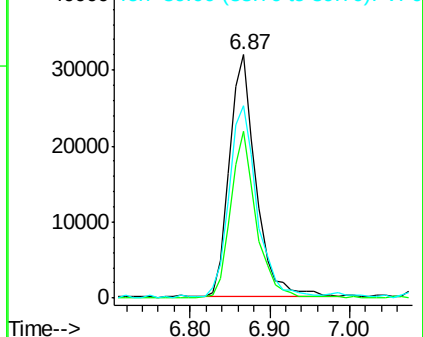
39 78.9 76.3 114.5

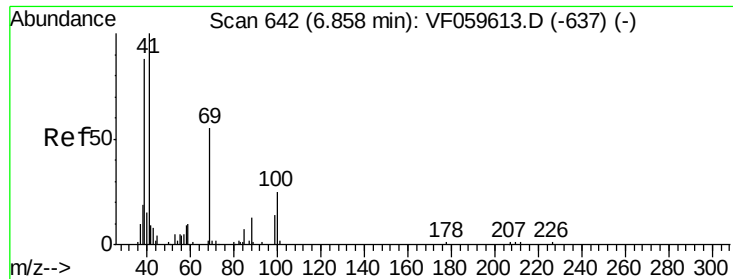


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

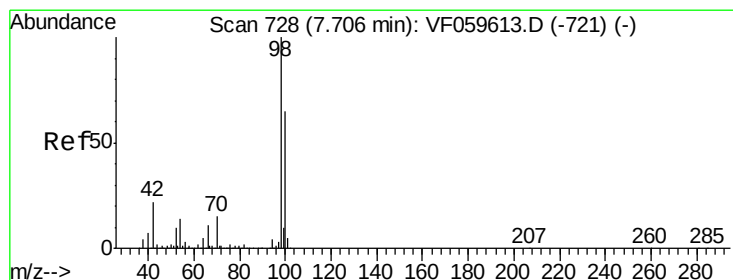
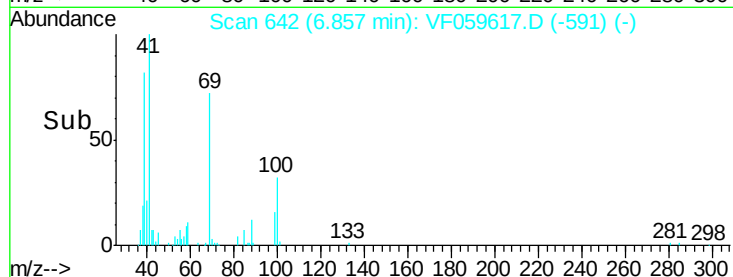
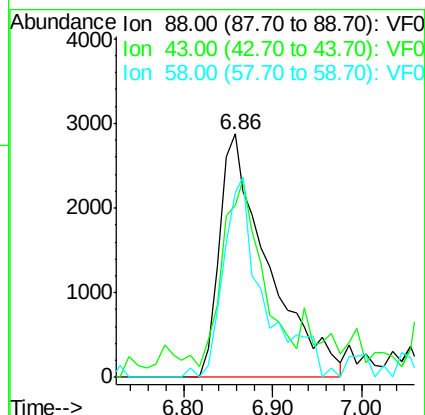
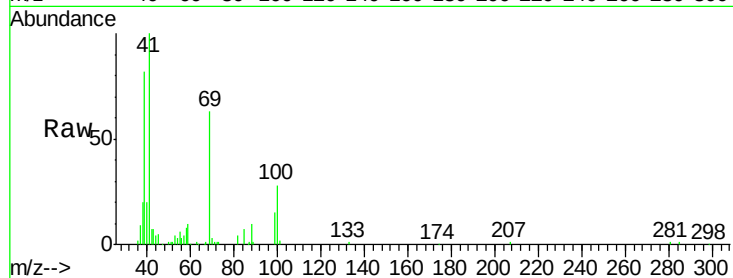




#49  
1,4-Dioxane  
Concen: 1126.104 ug/l  
RT: 6.86 min Scan# 642  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

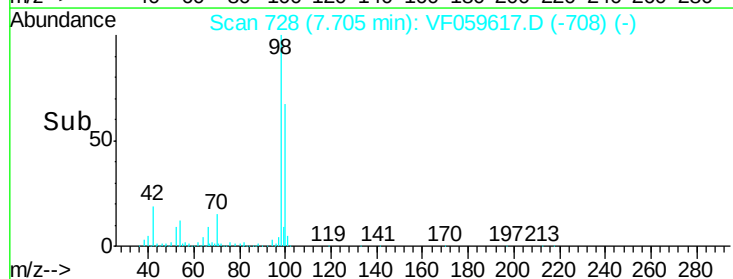
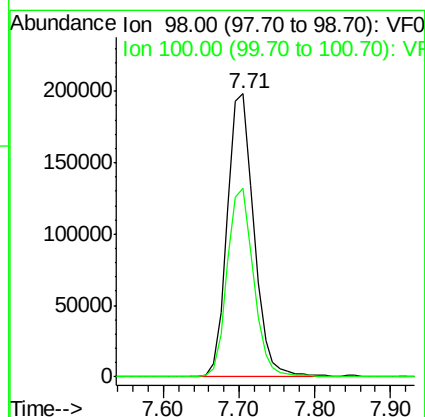
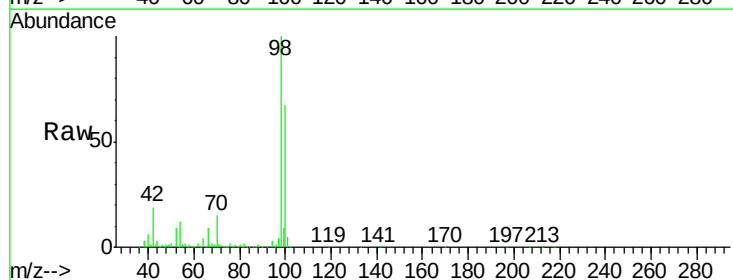
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

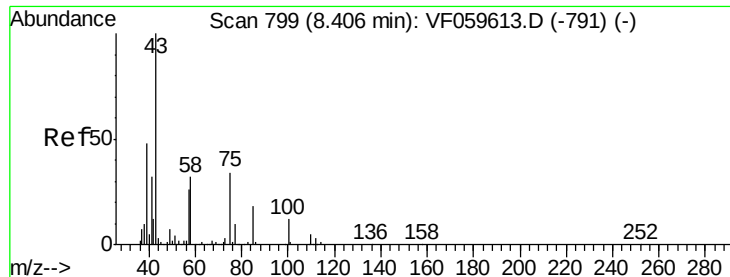
Tgt Ion: 88 Resp: 10908  
Ion Ratio Lower Upper  
88 100  
43 70.8 54.2 81.4  
58 75.7 54.3 81.5



#50  
Toluene-d8  
Concen: 52.239 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion: 98 Resp: 484091  
Ion Ratio Lower Upper  
98 100  
100 66.7 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 258.367 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

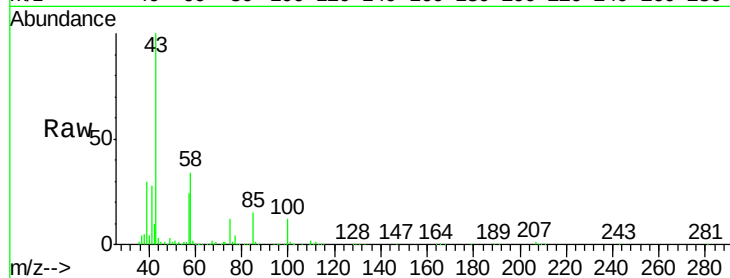
ICVVF072318

Tgt Ion: 43 Resp: 392846

Ion Ratio Lower Upper

43 100

58 34.1 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

200000

150000

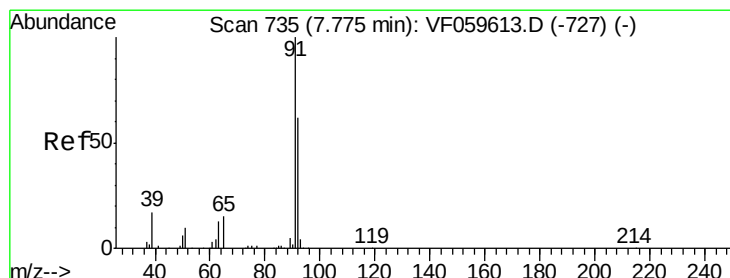
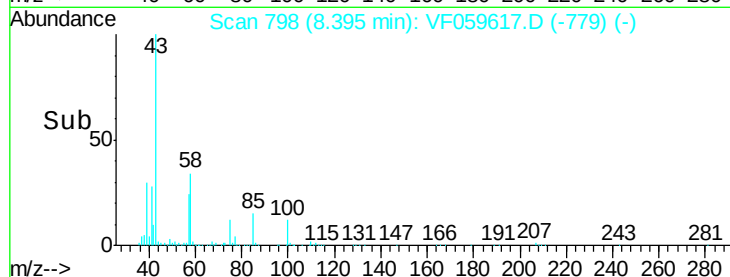
100000

50000

0

8.30 8.40 8.50 8.60

Time-->



#52

Toluene

Concen: 44.655 ug/l

RT: 7.77 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF059617.D

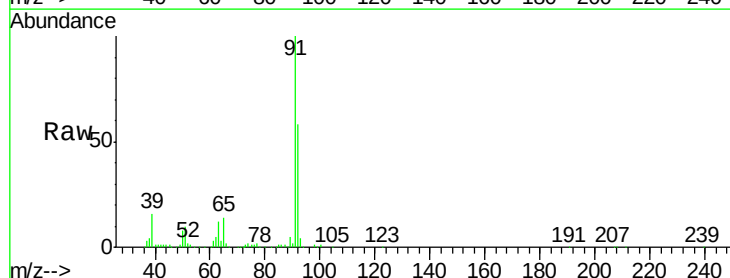
Acq: 23 Jul 2018 16:26

Tgt Ion: 92 Resp: 252397

Ion Ratio Lower Upper

92 100

91 171.6 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

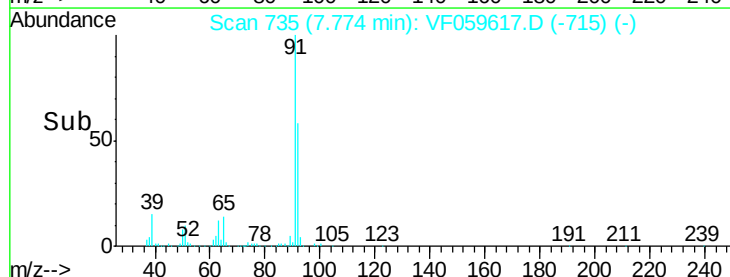
100000

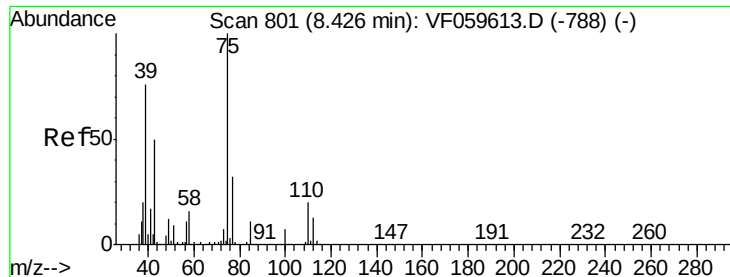
50000

0

7.60 7.70 7.80 7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 44.309 ug/l

RT: 8.41 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

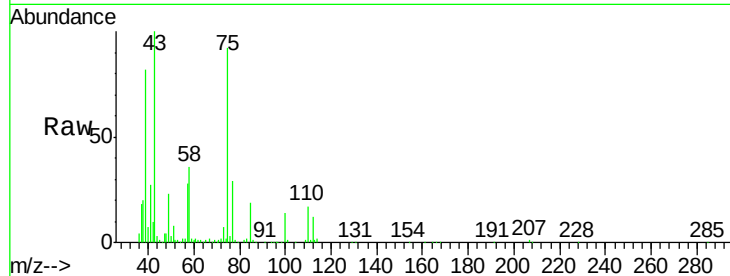
ICVVF072318

Tgt Ion: 75 Resp: 189265

Ion Ratio Lower Upper

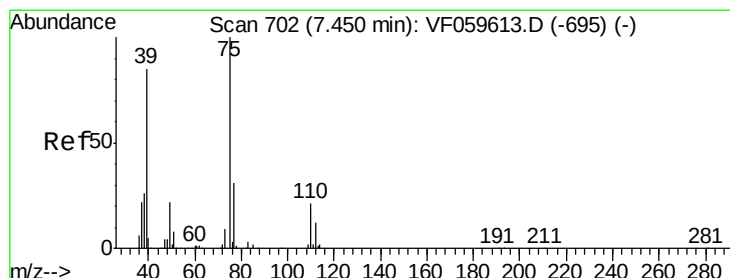
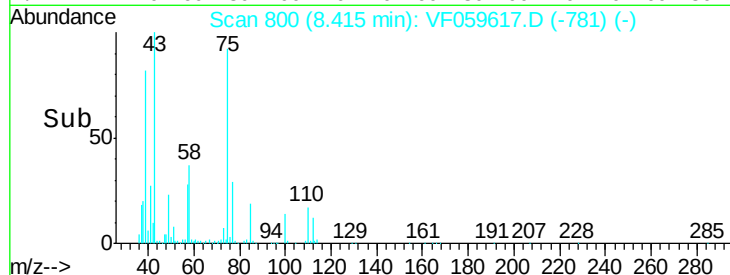
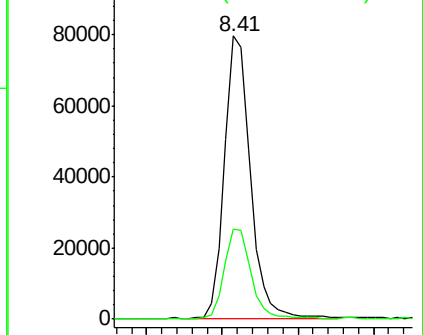
75 100

77 31.7 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 48.203 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

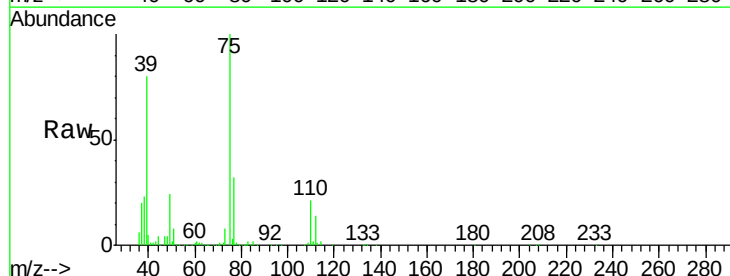
Tgt Ion: 75 Resp: 204100

Ion Ratio Lower Upper

75 100

77 32.2 24.6 37.0

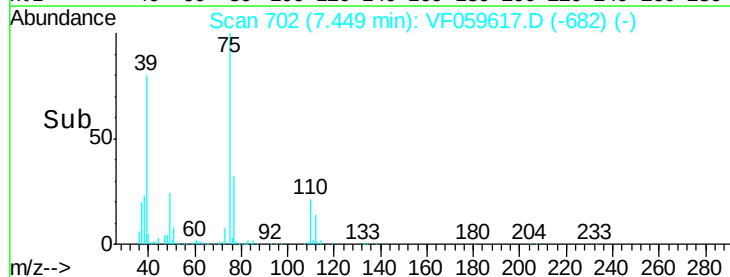
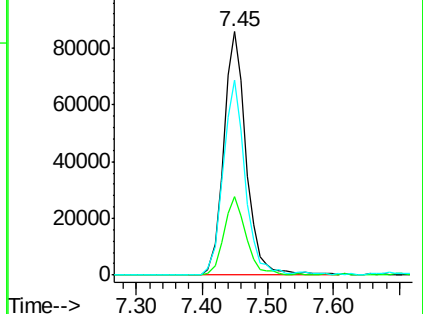
39 80.3 67.8 101.6

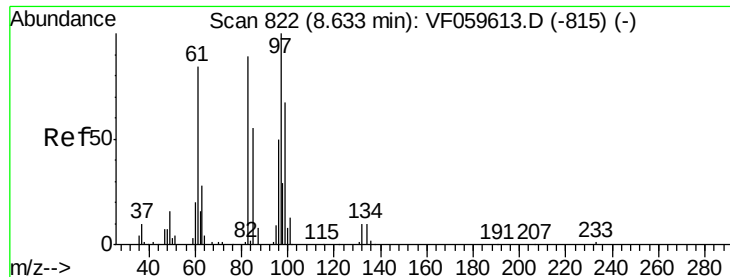


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 45.766 ug/l

RT: 8.63 min Scan# 822

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

Tgt Ion: 97 Resp: 88512

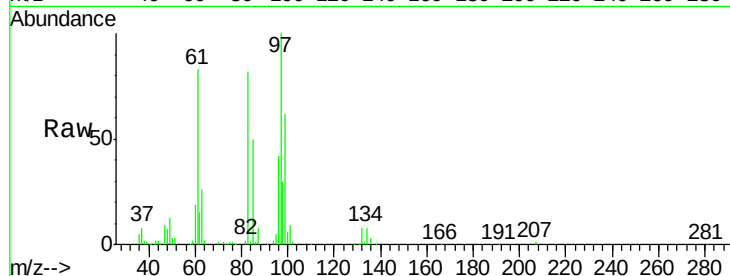
Ion Ratio Lower Upper

97 100

83 82.0 71.8 107.6

85 49.8 43.9 65.9

99 62.4 53.5 80.3

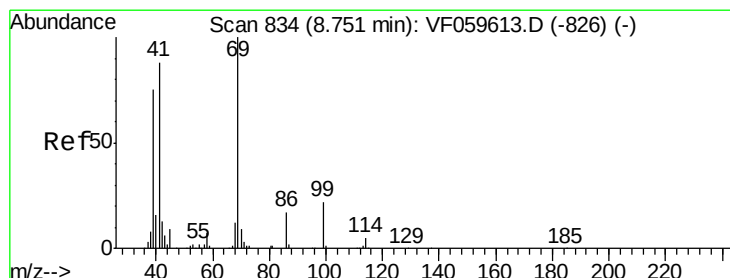
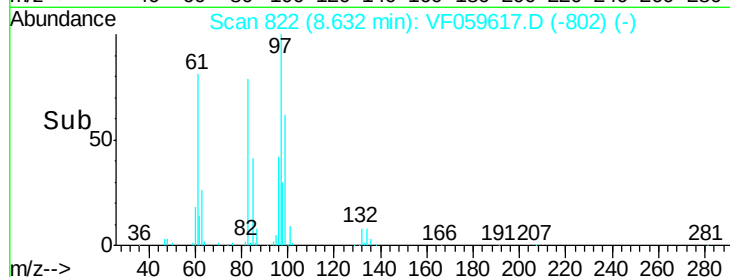
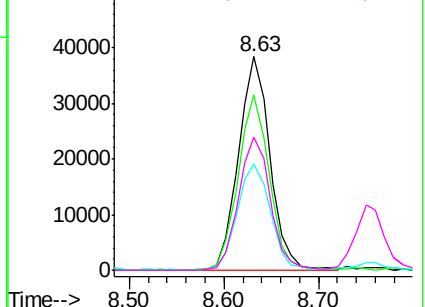


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 51.514 ug/l

RT: 8.75 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

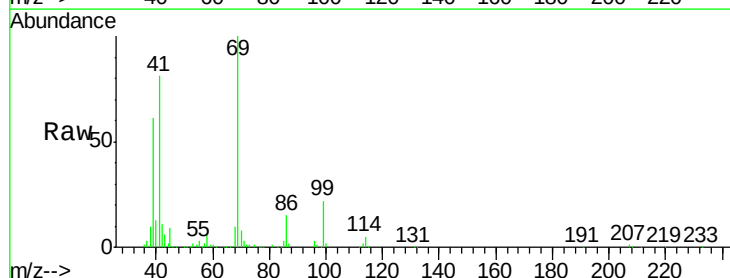
Tgt Ion: 69 Resp: 110914

Ion Ratio Lower Upper

69 100

41 80.6 70.8 106.2

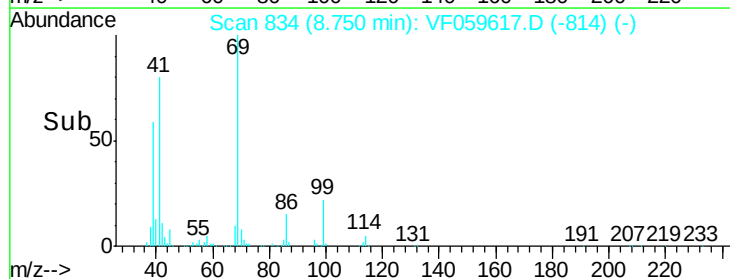
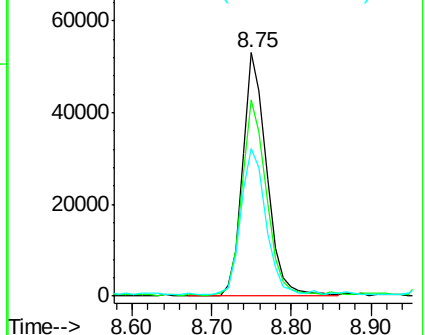
39 60.5 60.7 91.1#



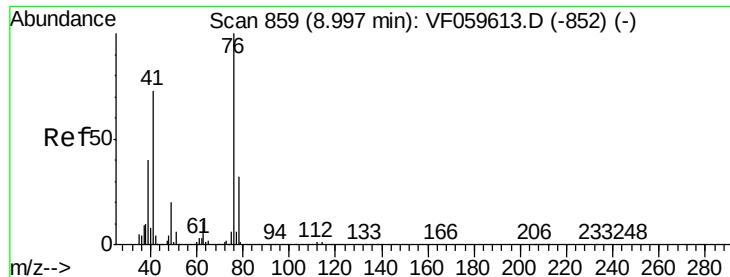
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0







#57

1,3-Dichloropropane

Concen: 46.123 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

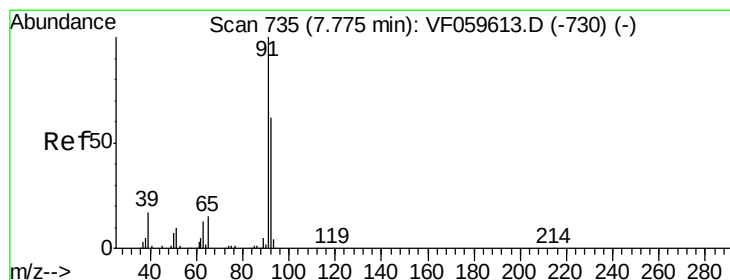
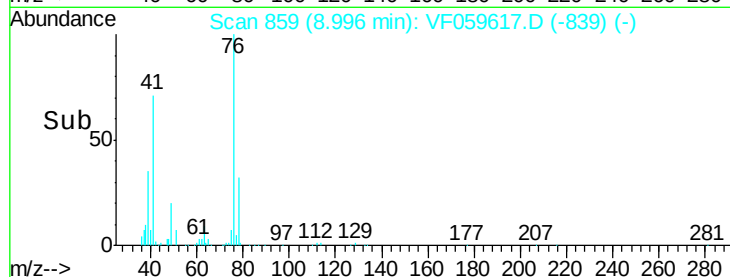
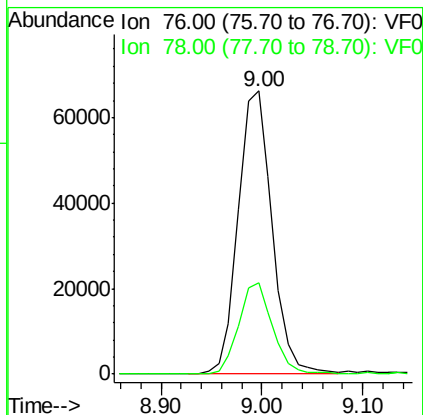
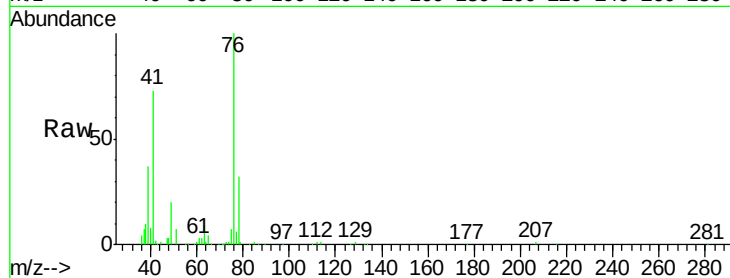
ICVVF072318

Tgt Ion: 76 Resp: 155215

Ion Ratio Lower Upper

76 100

78 32.2 25.3 37.9



#58

2-Chloroethyl Vinyl ether

Concen: 219.297 ug/l

RT: 7.76 min Scan# 734

Delta R.T. -0.01 min

Lab File: VF059617.D

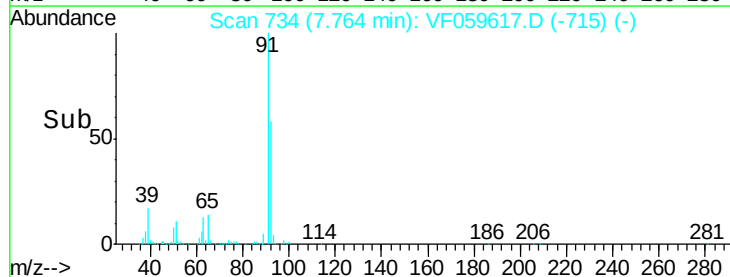
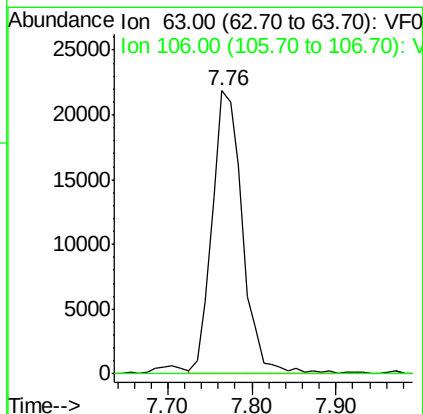
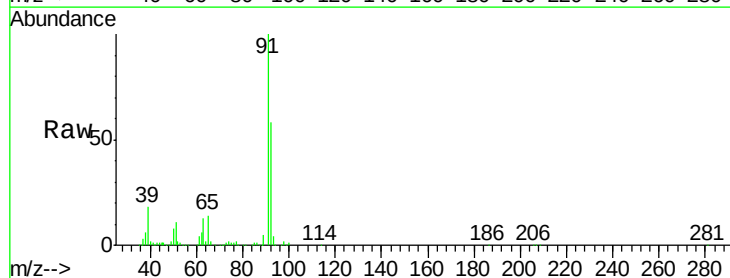
Acq: 23 Jul 2018 16:26

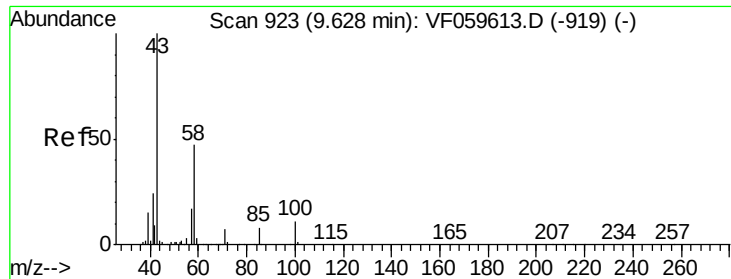
Tgt Ion: 63 Resp: 54630

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

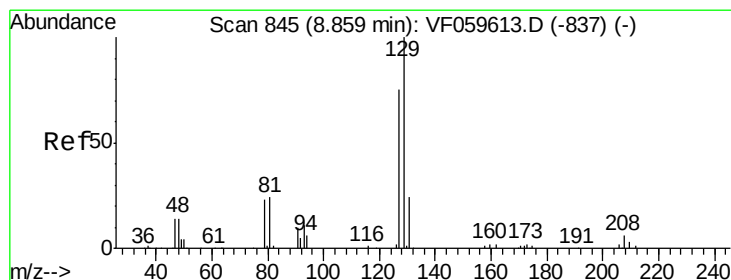
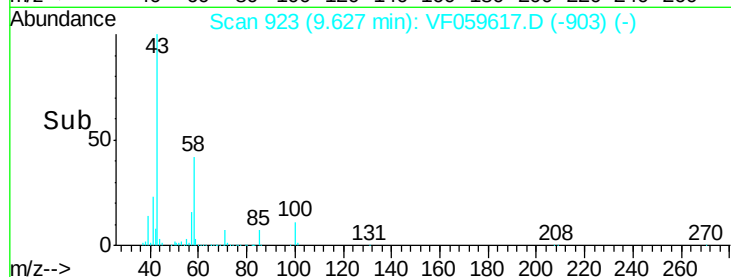
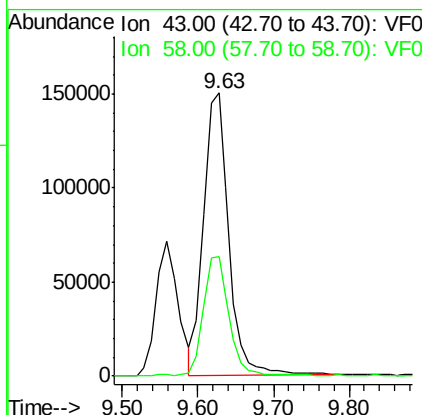
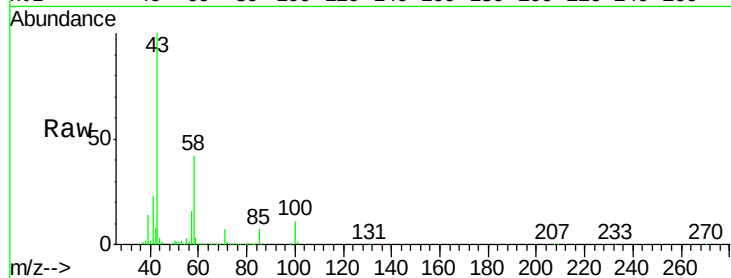




#59  
2-Hexanone  
Concen: 280.748 ug/l  
RT: 9.63 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

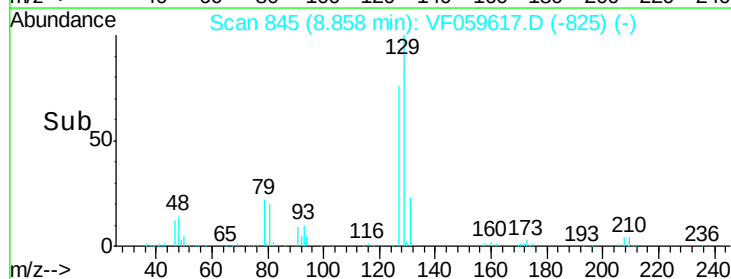
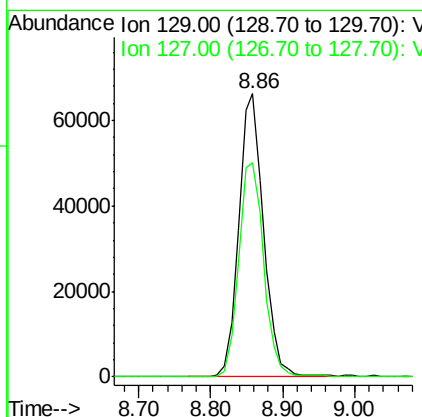
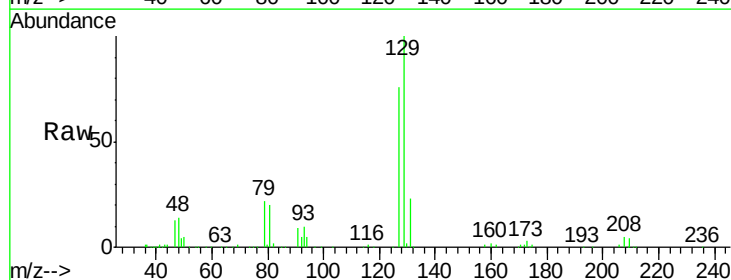
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

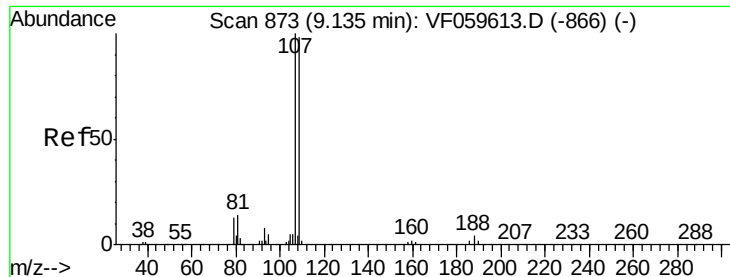
Tgt Ion: 43 Resp: 346427  
Ion Ratio Lower Upper  
43 100  
58 42.2 21.1 63.4



#60  
Dibromochloromethane  
Concen: 45.975 ug/l  
RT: 8.86 min Scan# 845  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion: 129 Resp: 158339  
Ion Ratio Lower Upper  
129 100  
127 75.7 37.5 112.7





#61

1,2-Dibromoethane

Concen: 49.160 ug/l

RT: 9.12 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

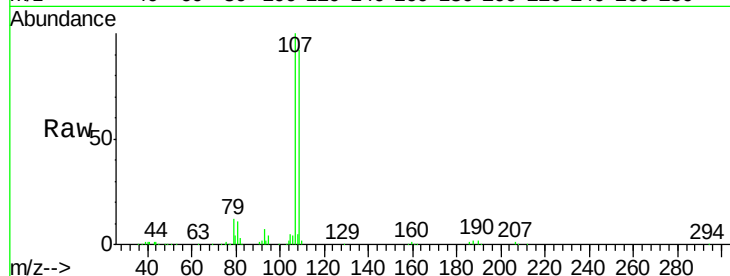
ICVVF072318

Tgt Ion:107 Resp: 108973

Ion Ratio Lower Upper

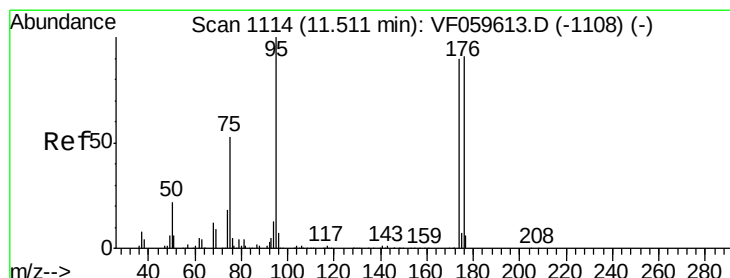
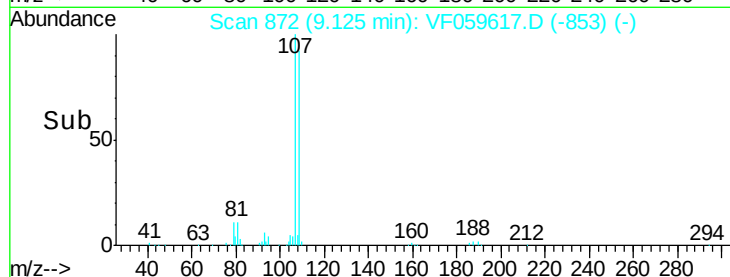
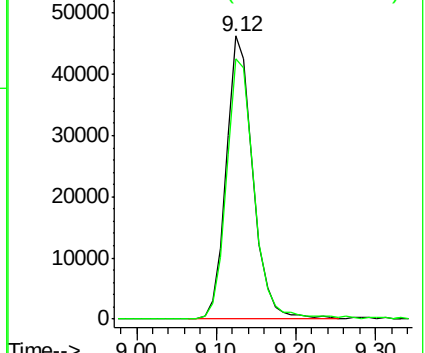
107 100

109 92.1 78.2 117.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 44.875 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

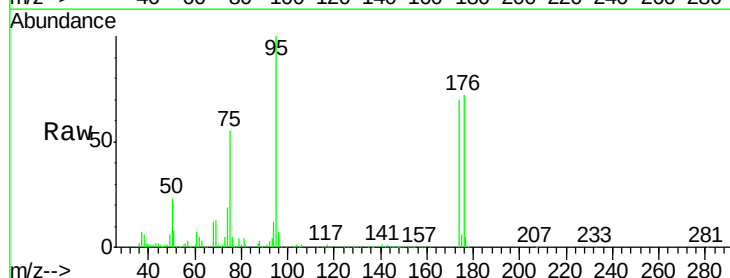
Tgt Ion: 95 Resp: 240051

Ion Ratio Lower Upper

95 100

174 69.9 0.0 180.6

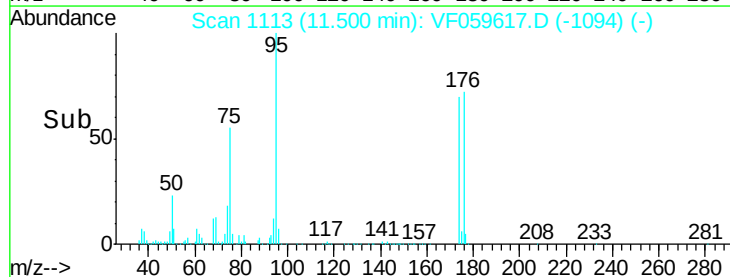
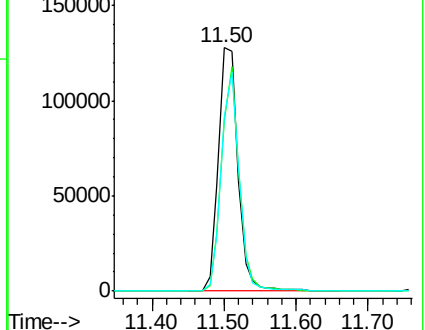
176 71.6 0.0 182.4

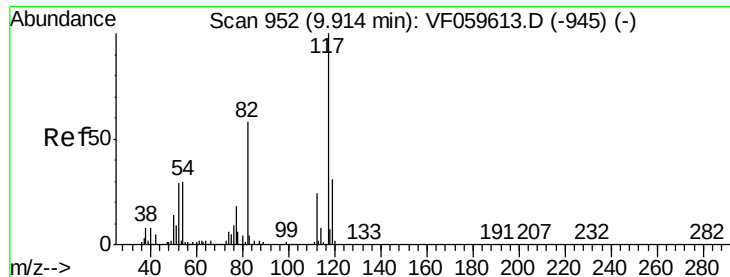


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

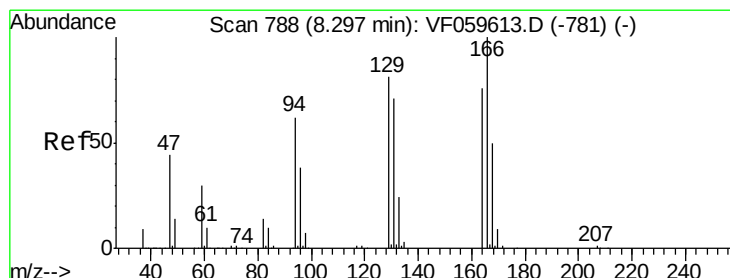
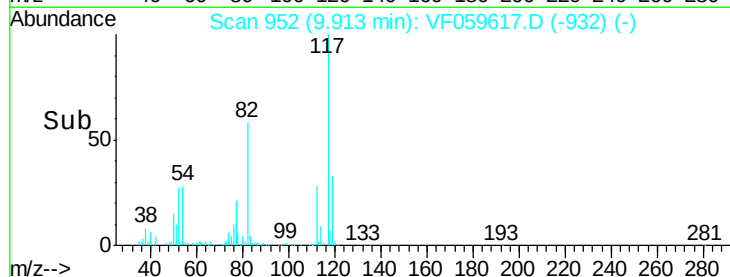
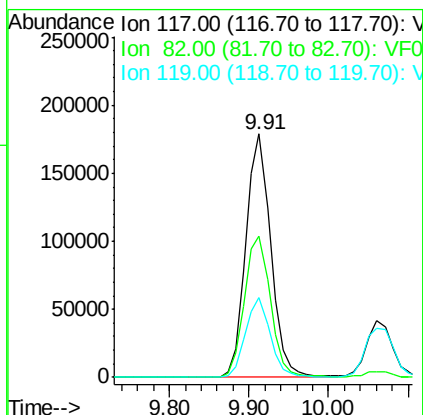
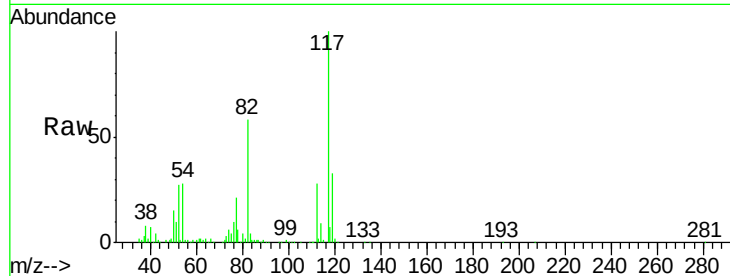




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 952  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

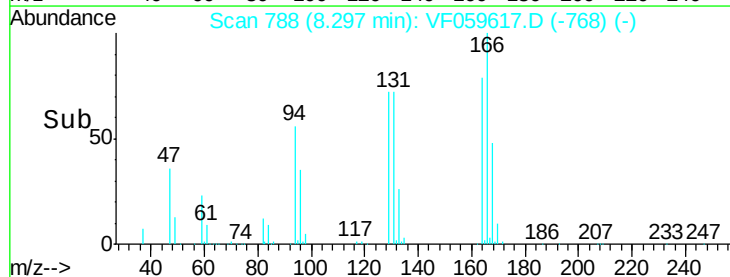
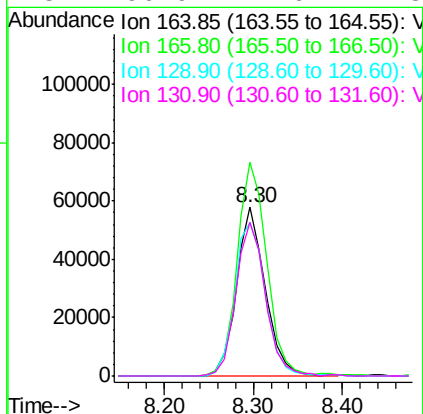
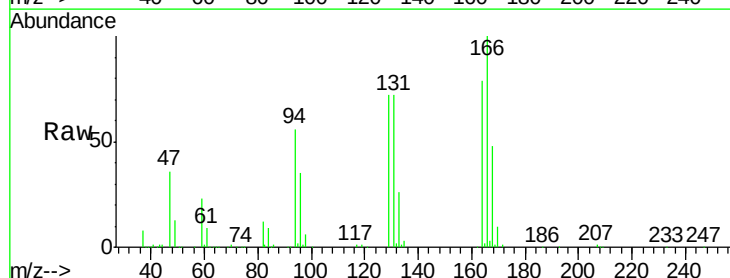
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

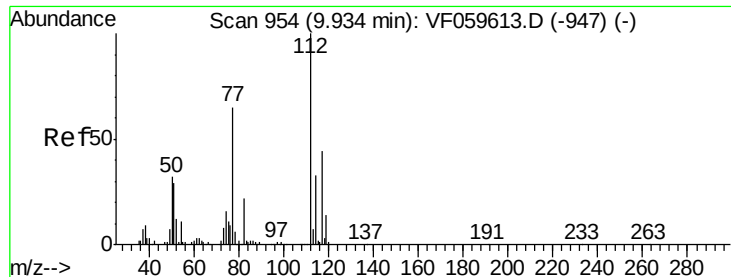
Tgt Ion:117 Resp: 385673  
Ion Ratio Lower Upper  
117 100  
82 57.8 46.5 69.7  
119 32.6 24.4 36.6



#64  
Tetrachloroethene  
Concen: 45.229 ug/l  
RT: 8.30 min Scan# 788  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion:164 Resp: 129538  
Ion Ratio Lower Upper  
164 100  
166 126.8 104.8 157.2  
129 91.5 85.3 127.9  
131 90.9 74.6 111.8

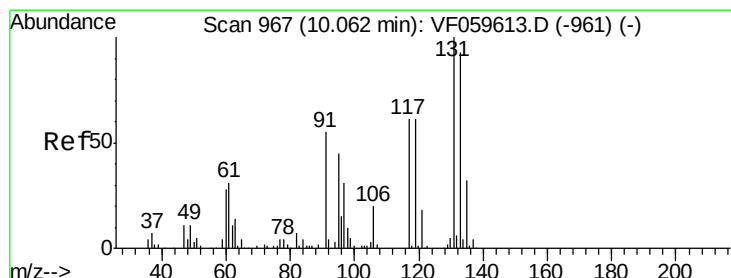
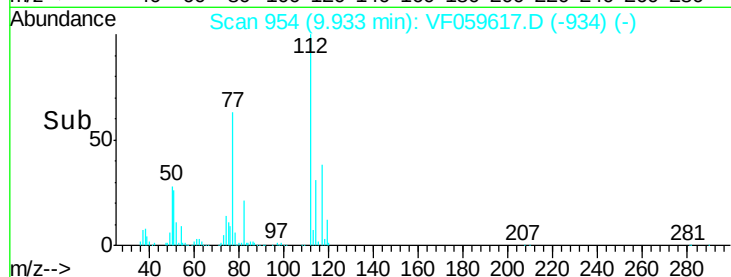
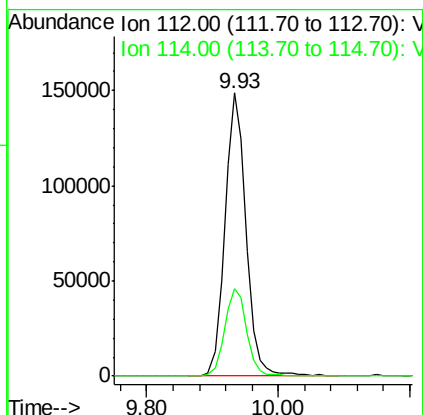
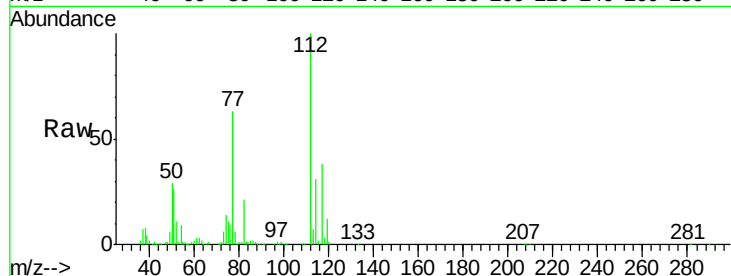




#65  
Chlorobenzene  
Concen: 46.805 ug/l  
RT: 9.93 min Scan# 954  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

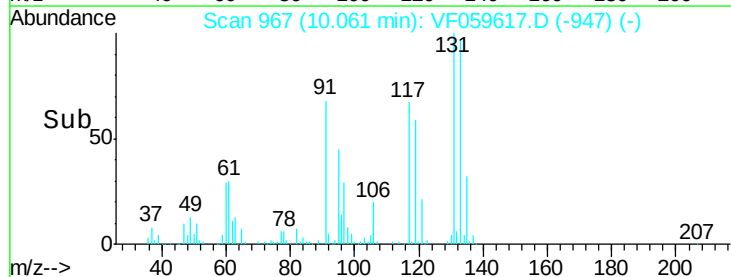
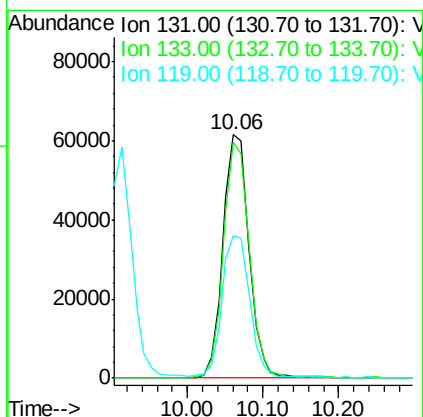
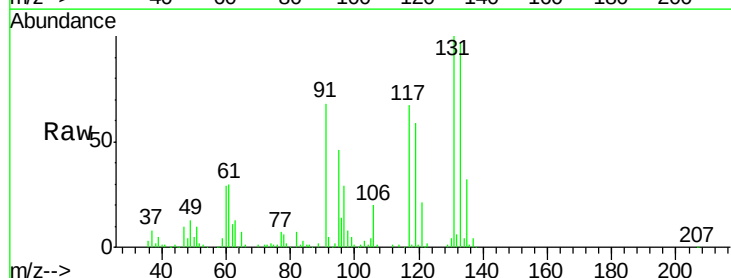
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

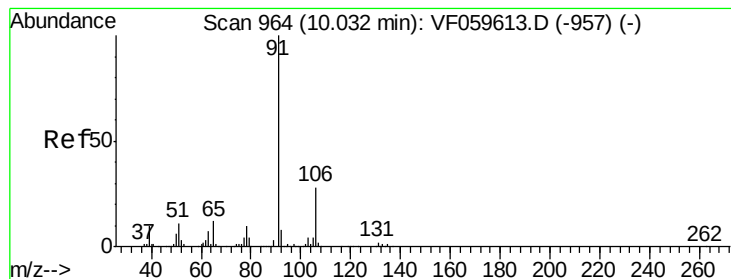
Tgt Ion:112 Resp: 332856  
Ion Ratio Lower Upper  
112 100  
114 30.9 26.8 40.2



#66  
1,1,1,2-Tetrachloroethane  
Concen: 45.773 ug/l  
RT: 10.06 min Scan# 967  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion:131 Resp: 147495  
Ion Ratio Lower Upper  
131 100  
133 96.9 46.4 139.2  
119 58.7 30.6 91.8





#67

Ethyl Benzene

Concen: 47.371 ug/l

RT: 10.03 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

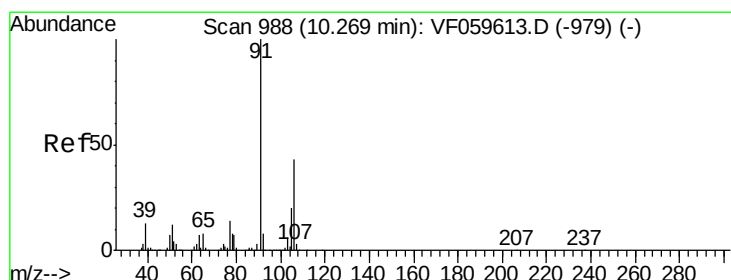
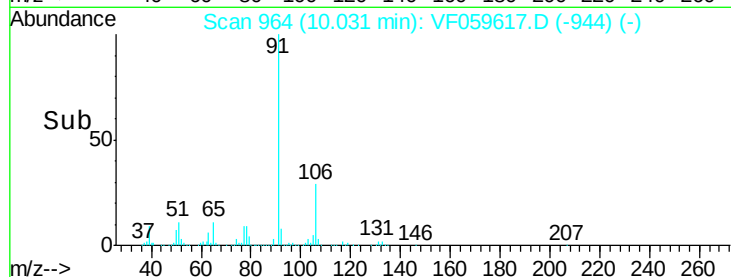
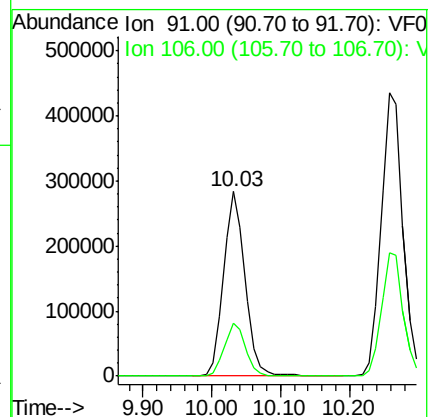
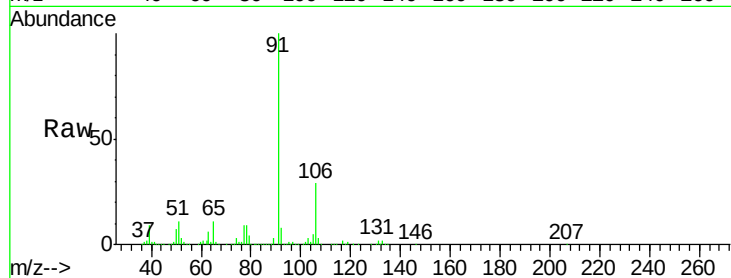
ICVVF072318

Tgt Ion: 91 Resp: 612550

Ion Ratio Lower Upper

91 100

106 28.8 22.5 33.7



#68

m/p-Xylenes

Concen: 96.227 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF059617.D

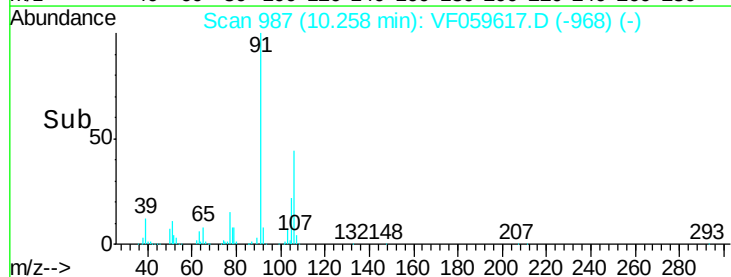
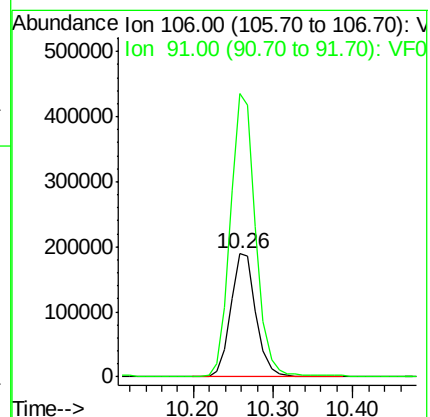
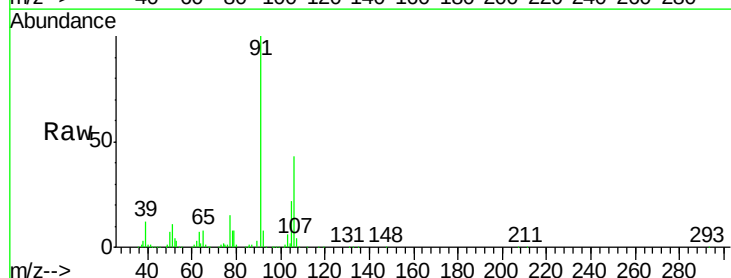
Acq: 23 Jul 2018 16:26

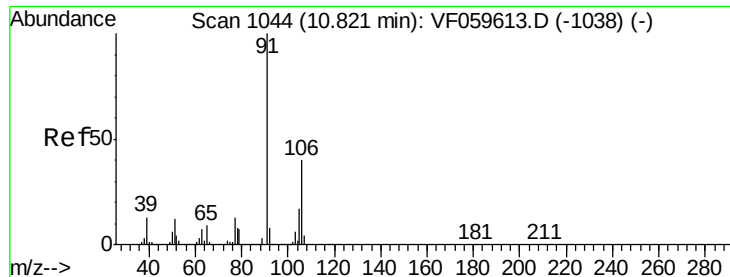
Tgt Ion: 106 Resp: 422877

Ion Ratio Lower Upper

106 100

91 230.3 187.0 280.4

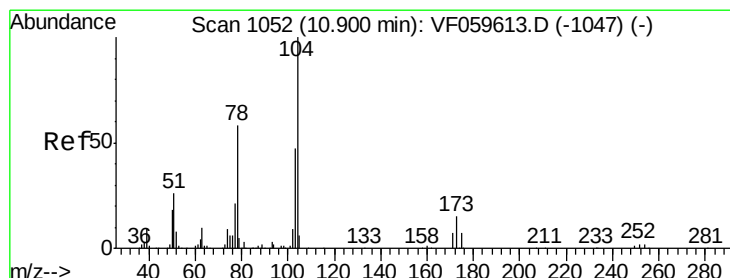
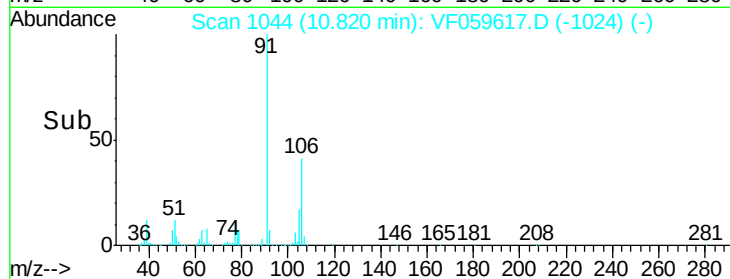
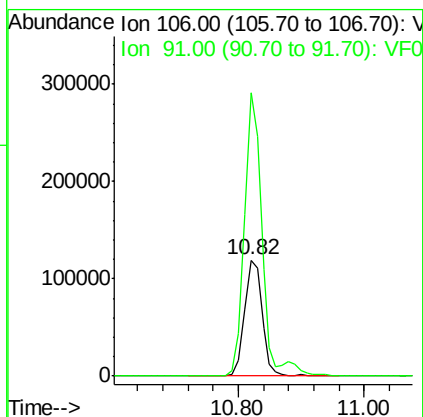
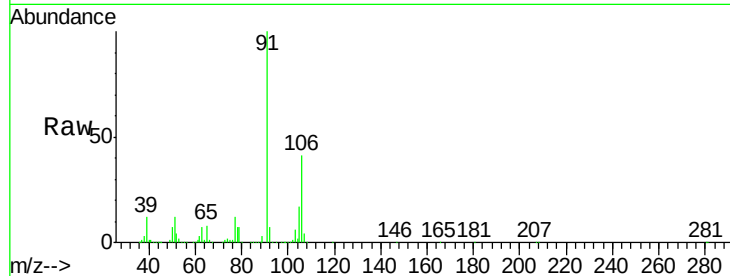




#69  
o-Xylene  
Concen: 48.474 ug/l  
RT: 10.82 min Scan# 1044  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

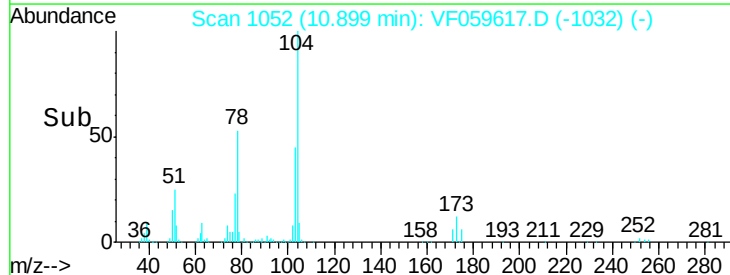
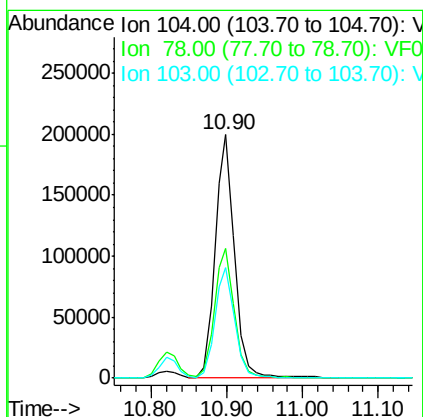
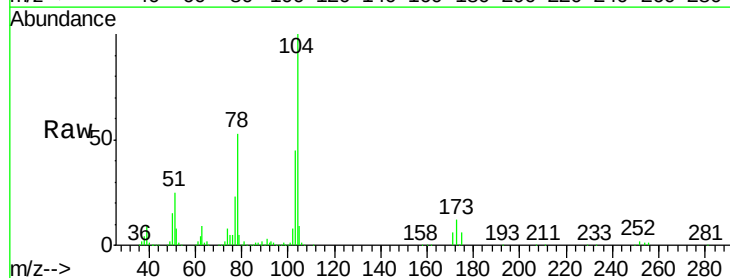
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

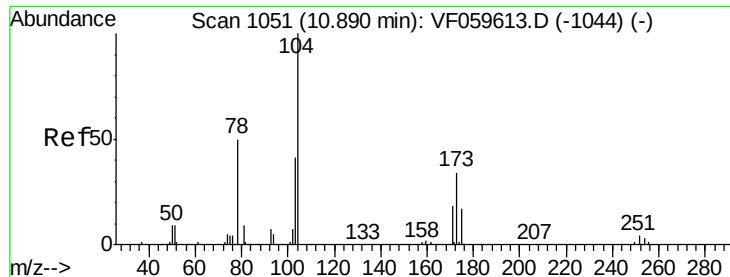
Tgt Ion:106 Resp: 231375  
Ion Ratio Lower Upper  
106 100  
91 243.7 125.8 377.3



#70  
Styrene  
Concen: 49.584 ug/l  
RT: 10.90 min Scan# 1052  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion:104 Resp: 354962  
Ion Ratio Lower Upper  
104 100  
78 53.4 47.4 71.2  
103 45.2 38.8 58.2





#71

Bromoform

Concen: 47.282 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

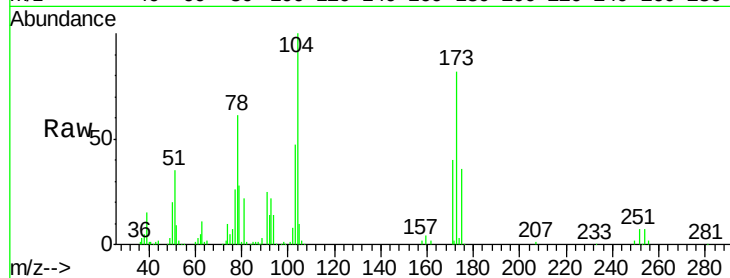
Tgt Ion:173 Resp: 94406

Ion Ratio Lower Upper

173 100

175 44.1 25.1 75.2

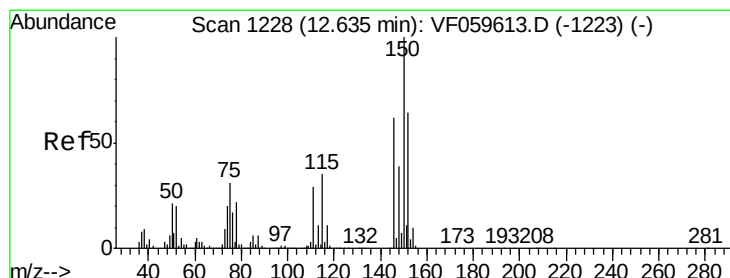
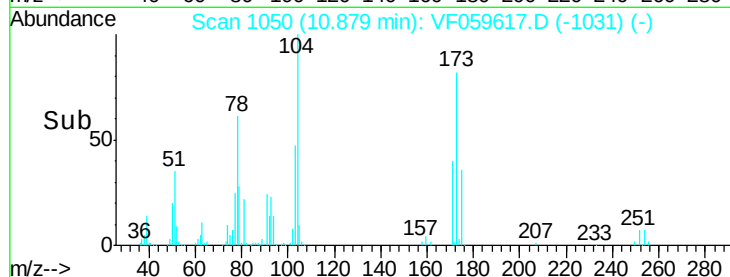
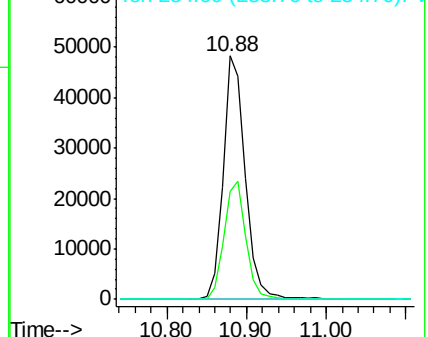
254 0.0 0.0 0.0



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: 50.000 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

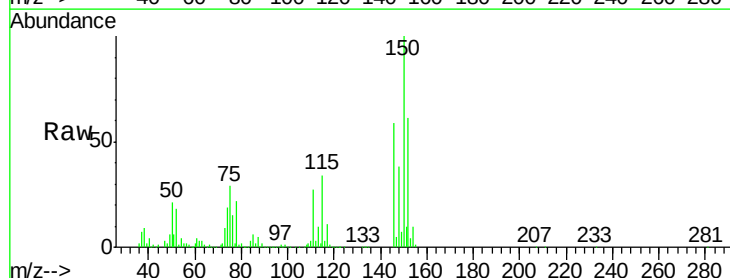
Tgt Ion:152 Resp: 241640

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.4

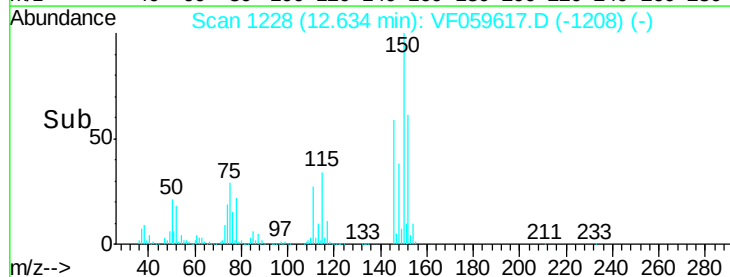
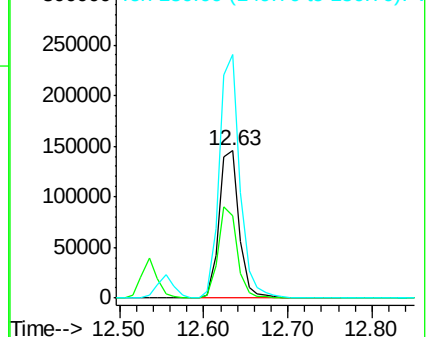
150 165.2 0.0 314.6



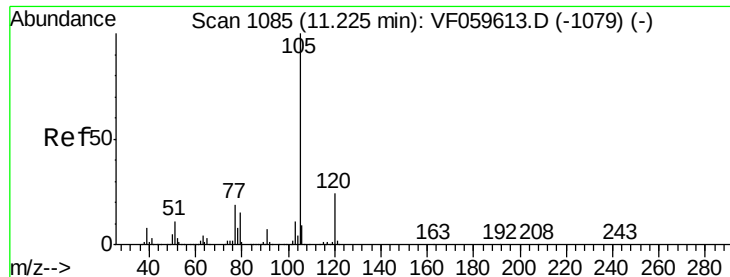
Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V







#73

Isopropylbenzene

Concen: 46.646 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

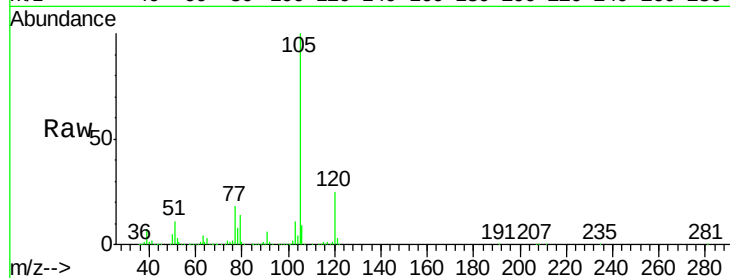
ICVVF072318

Tgt Ion: 105 Resp: 715901

Ion Ratio Lower Upper

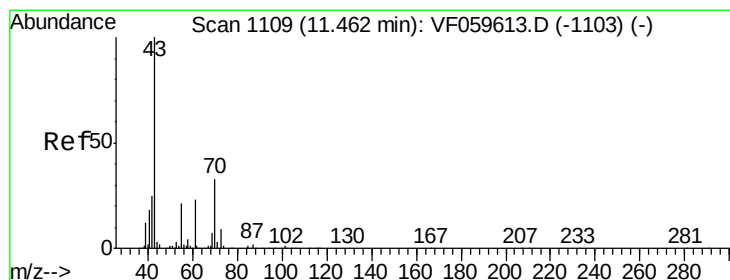
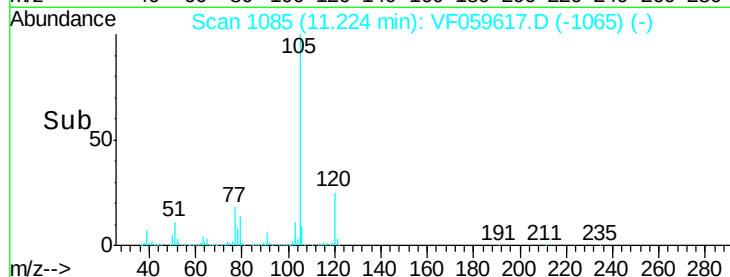
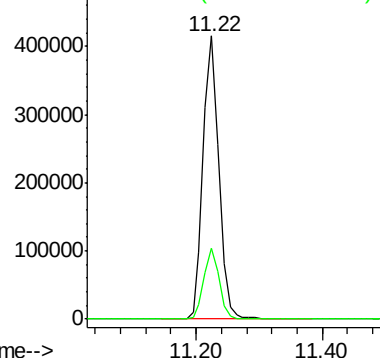
105 100

120 25.1 11.8 35.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 56.179 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Tgt Ion: 43 Resp: 193884

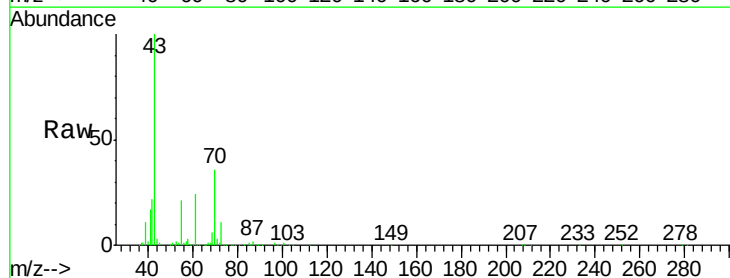
Ion Ratio Lower Upper

43 100

70 36.5 26.6 40.0

55 20.6 17.0 25.6

61 23.7 18.3 27.5

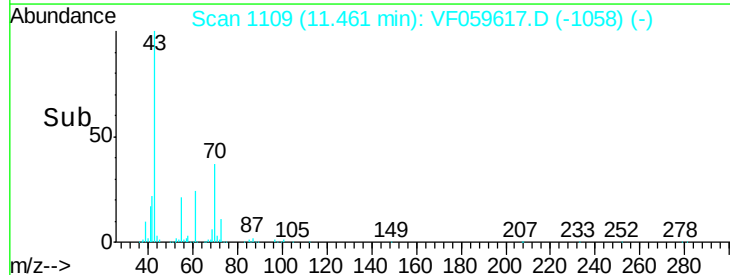
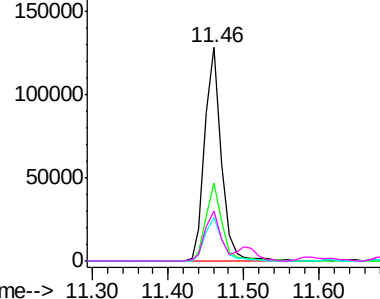


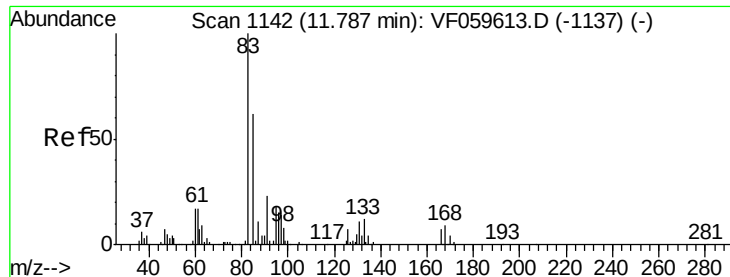
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 48.725 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

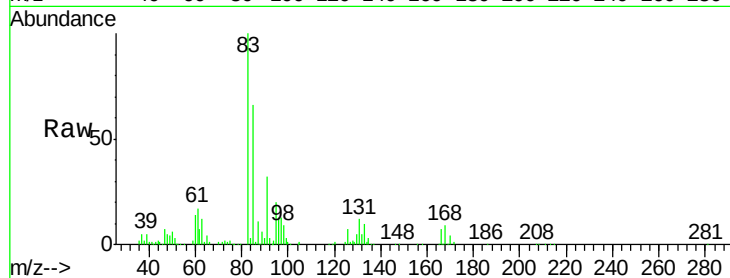
Tgt Ion: 83 Resp: 125535

Ion Ratio Lower Upper

83 100

131 12.3 5.7 17.0

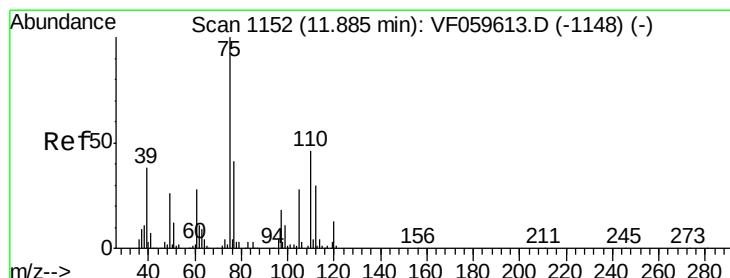
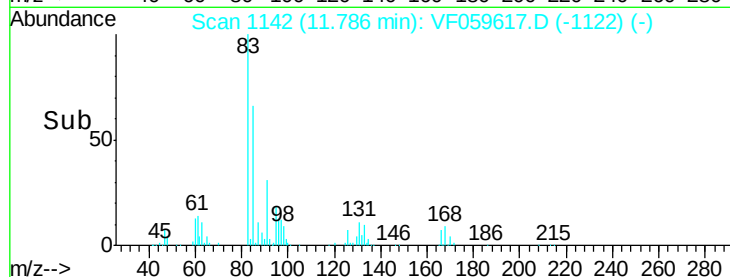
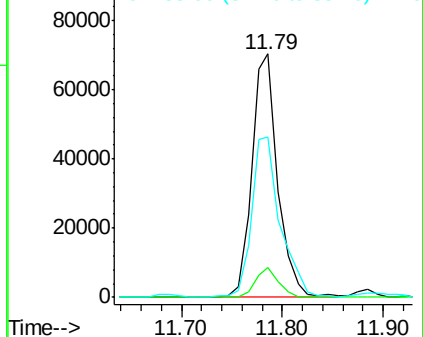
85 65.9 31.1 93.3



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: 46.301 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF059617.D

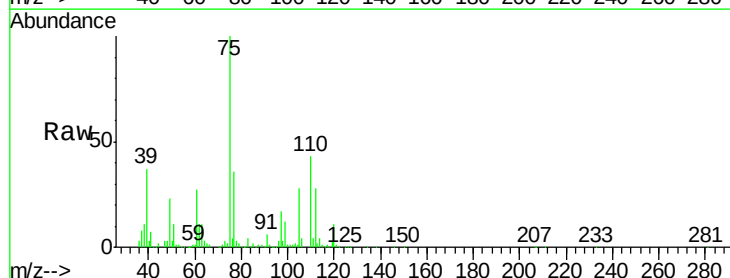
Acq: 23 Jul 2018 16:26

Tgt Ion: 75 Resp: 104214

Ion Ratio Lower Upper

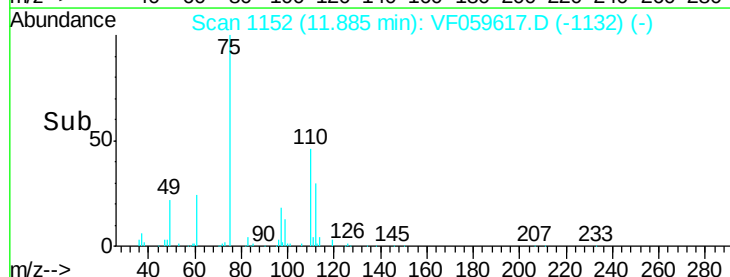
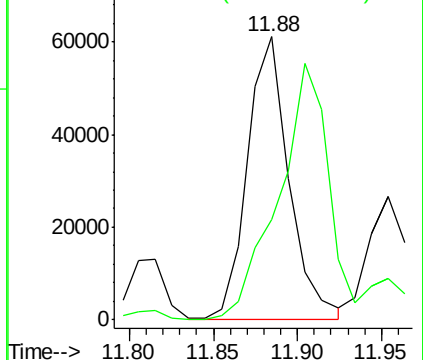
75 100

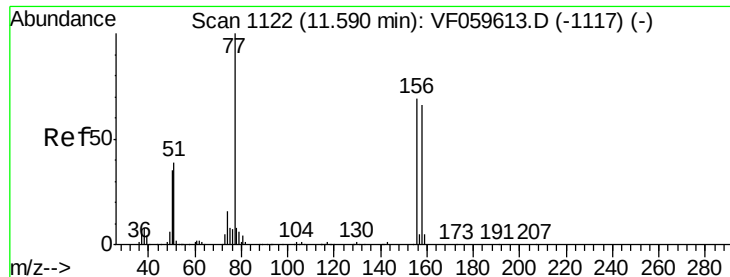
77 35.6 20.9 62.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 44.747 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

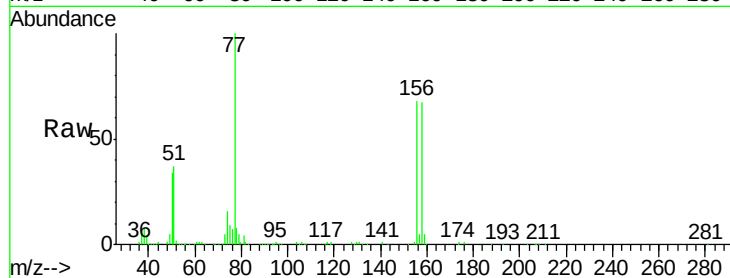
Tgt Ion:156 Resp: 177928

Ion Ratio Lower Upper

156 100

77 146.3 72.1 216.3

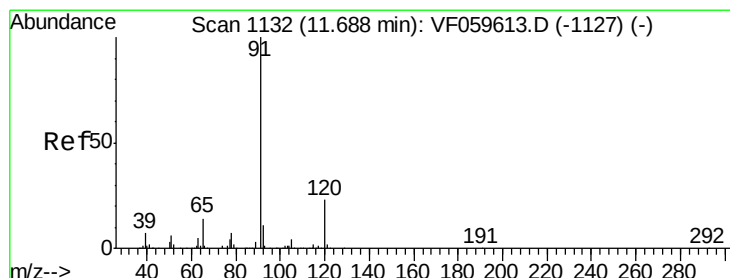
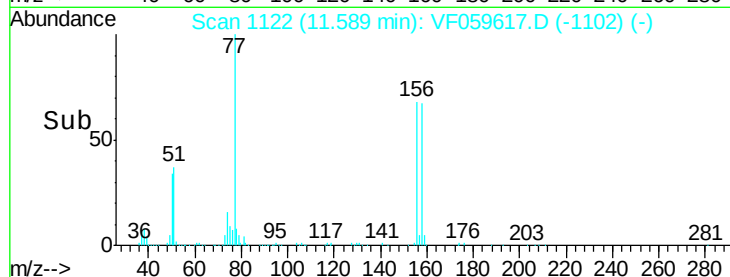
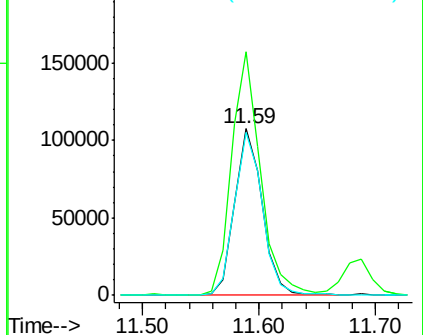
158 97.8 47.3 141.9



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: 44.717 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF059617.D

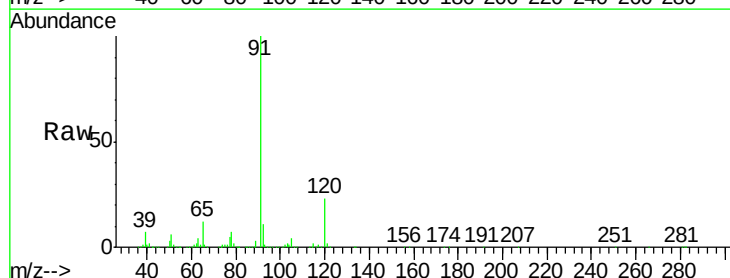
Acq: 23 Jul 2018 16:26

Tgt Ion: 91 Resp: 822424

Ion Ratio Lower Upper

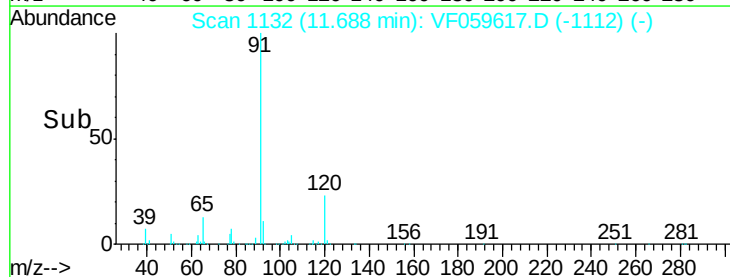
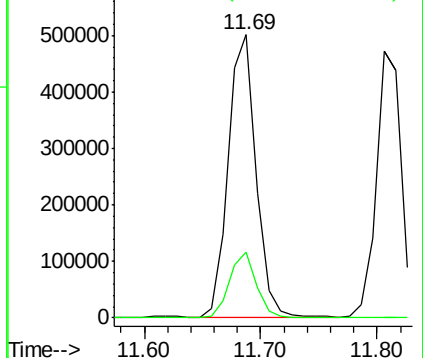
91 100

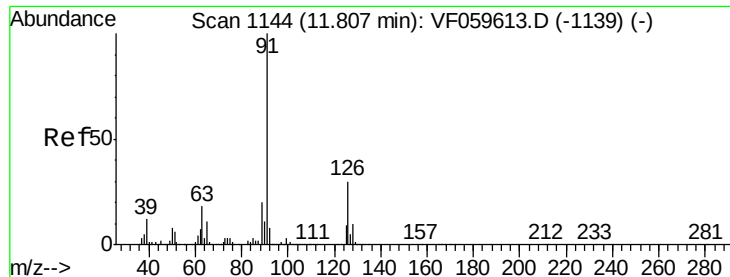
120 23.2 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 63.336 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

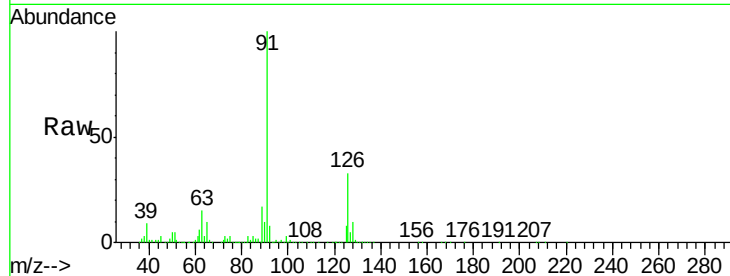
ICVVF072318

Tgt Ion: 91 Resp: 698114

Ion Ratio Lower Upper

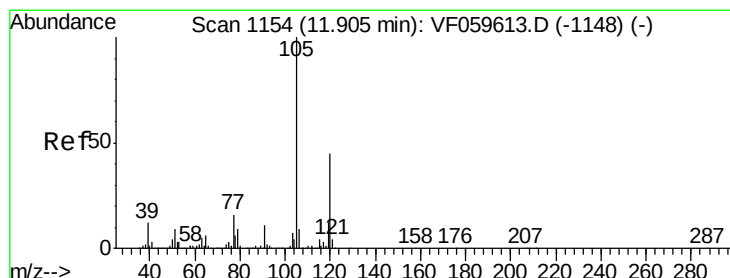
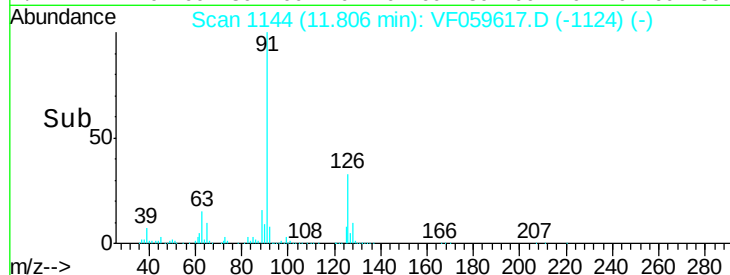
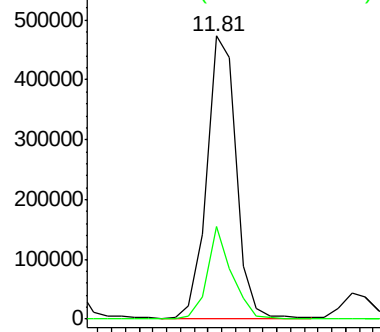
91 100

126 32.6 15.1 45.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 44.290 ug/l

RT: 11.90 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VF059617.D

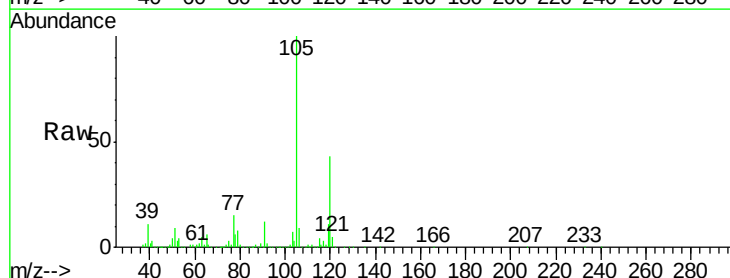
Acq: 23 Jul 2018 16:26

Tgt Ion: 105 Resp: 608488

Ion Ratio Lower Upper

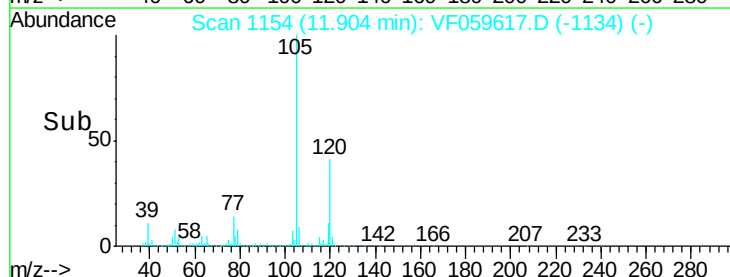
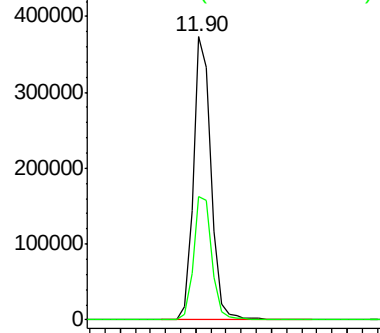
105 100

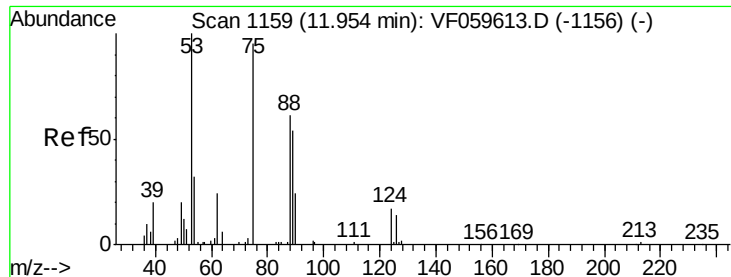
120 43.4 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 69.523 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

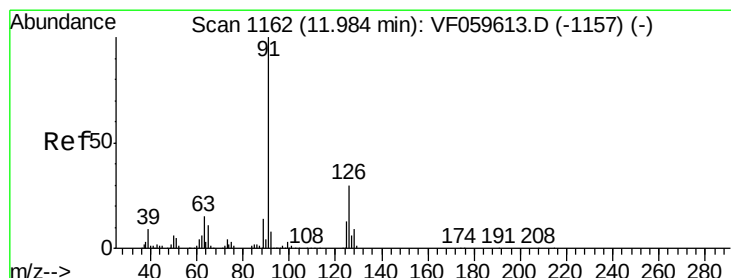
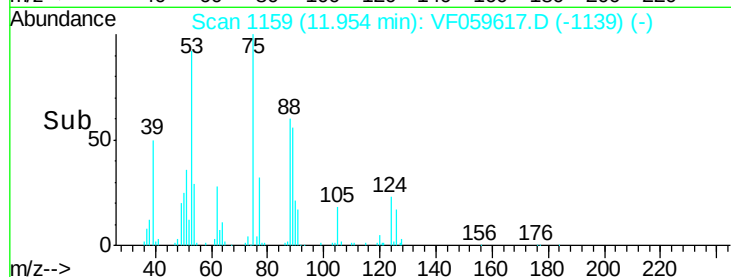
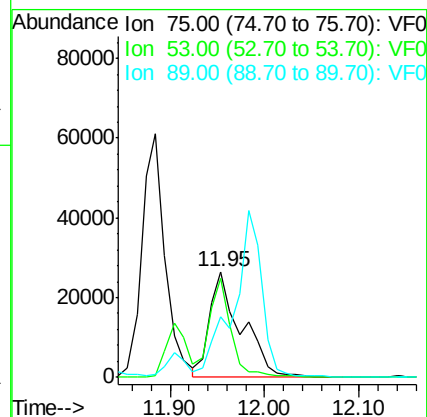
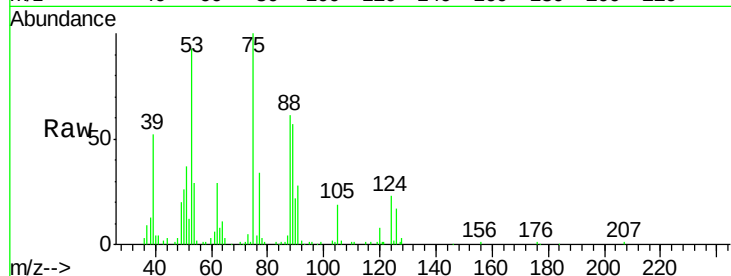
Tgt Ion: 75 Resp: 62065

Ion Ratio Lower Upper

75 100

53 93.0 86.4 129.6

89 56.8 46.8 70.2



#82

4-Chlorotoluene

Concen: 44.192 ug/l

RT: 11.98 min Scan# 1162

Delta R.T. -0.00 min

Lab File: VF059617.D

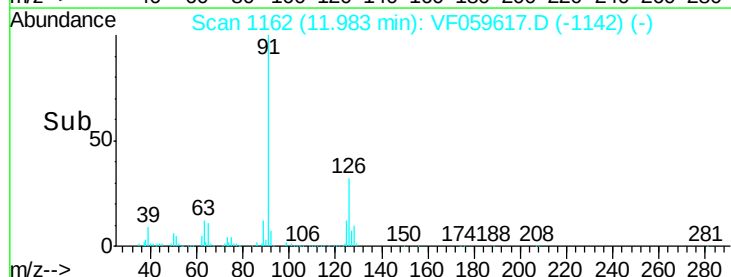
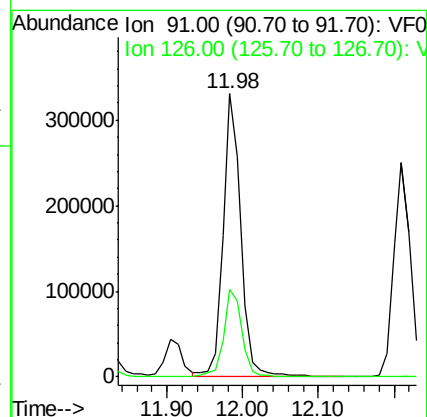
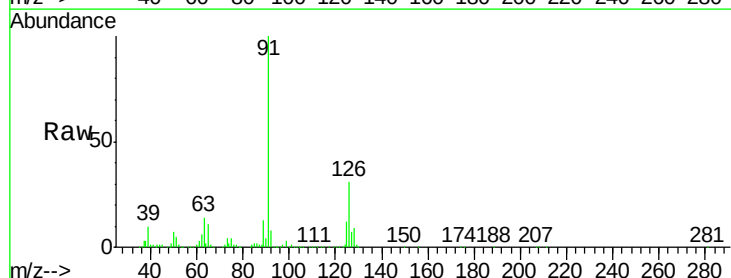
Acq: 23 Jul 2018 16:26

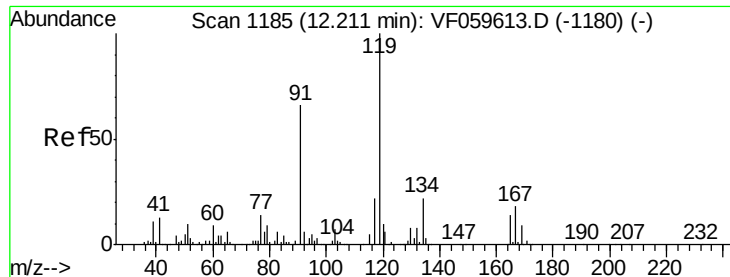
Tgt Ion: 91 Resp: 541811

Ion Ratio Lower Upper

91 100

126 30.8 14.7 44.1





#83

tert-Butylbenzene

Concen: 44.631 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF072318

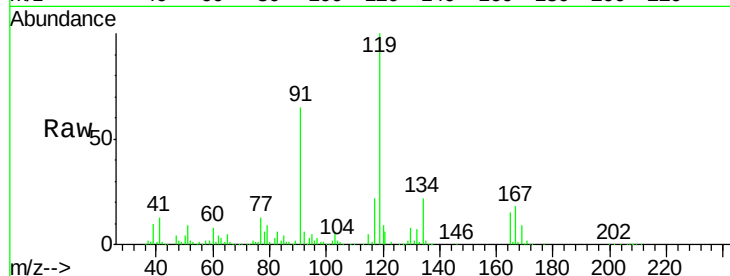
Tgt Ion:119 Resp: 606314

Ion Ratio Lower Upper

119 100

91 64.7 33.2 99.6

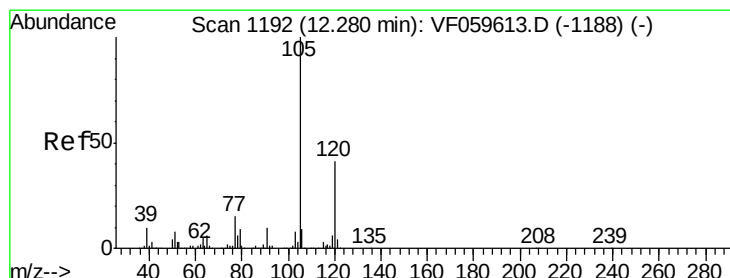
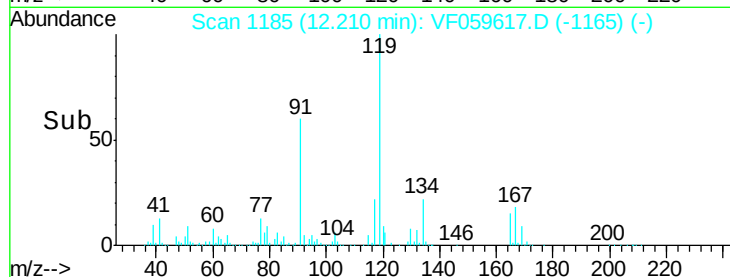
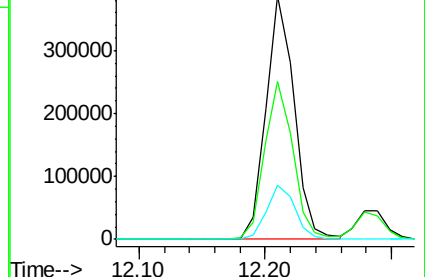
134 22.1 10.9 32.6



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: 43.473 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. 0.01 min

Lab File: VF059617.D

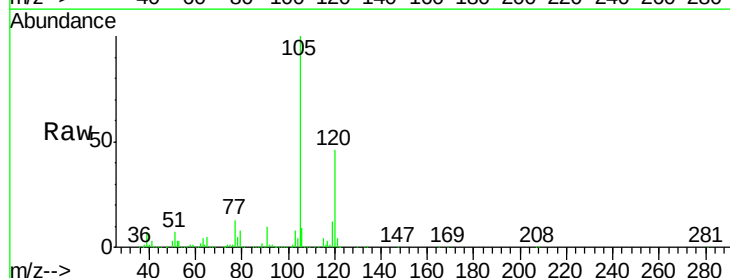
Acq: 23 Jul 2018 16:26

Tgt Ion:105 Resp: 607610

Ion Ratio Lower Upper

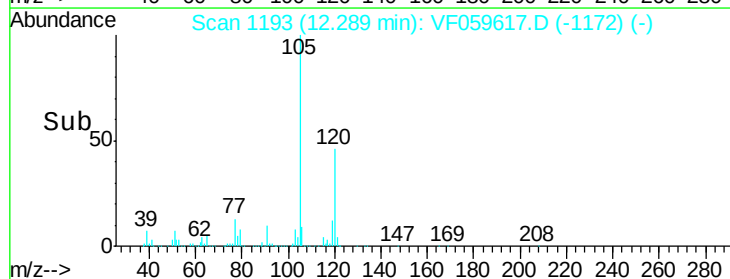
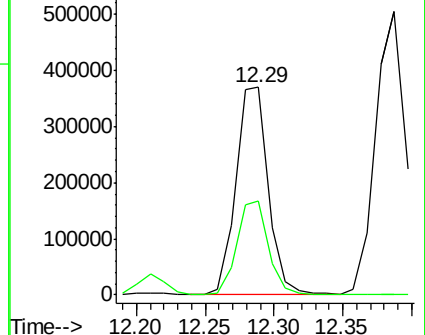
105 100

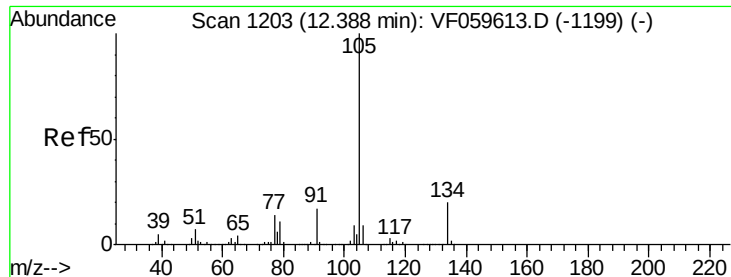
120 45.6 20.4 61.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 44.565 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

Instrument :

MSVOA\_F

ClientSampleId :

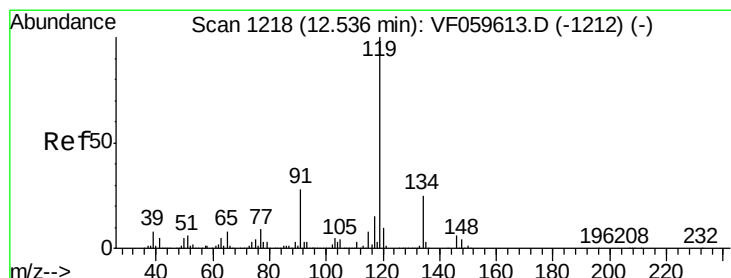
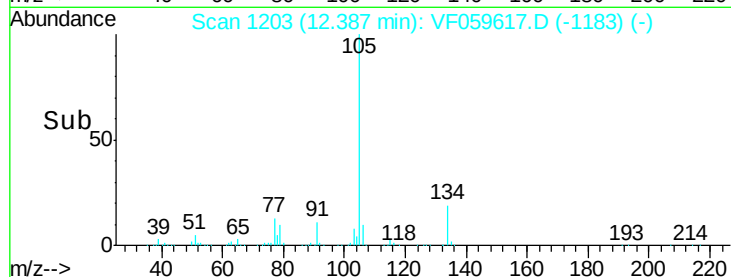
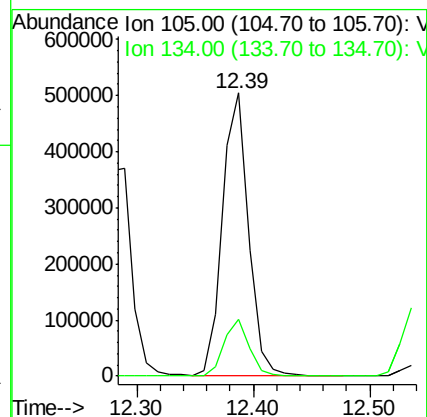
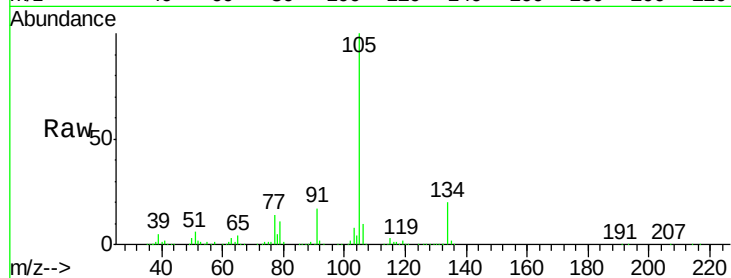
ICVVF072318

Tgt Ion:105 Resp: 782533

Ion Ratio Lower Upper

105 100

134 20.0 9.9 29.7



#86

p-Isopropyltoluene

Concen: 44.819 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF059617.D

Acq: 23 Jul 2018 16:26

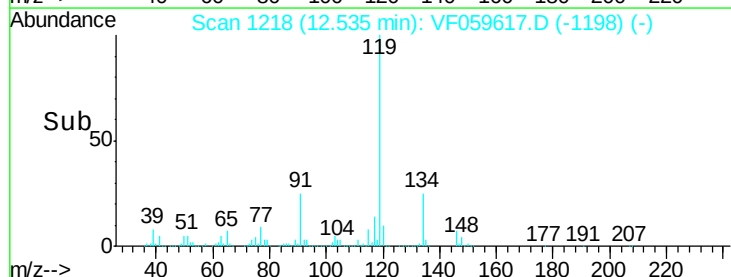
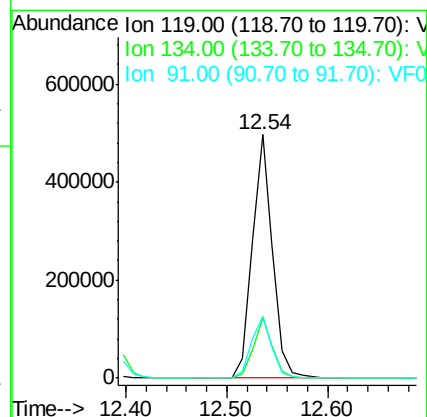
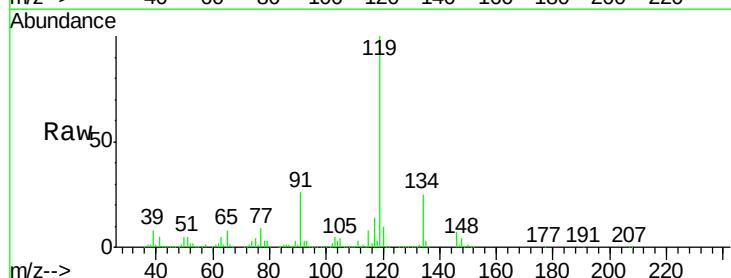
Tgt Ion:119 Resp: 692642

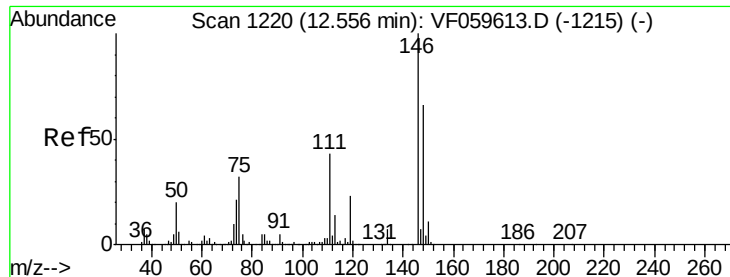
Ion Ratio Lower Upper

119 100

134 24.7 12.4 37.2

91 25.5 13.9 41.7

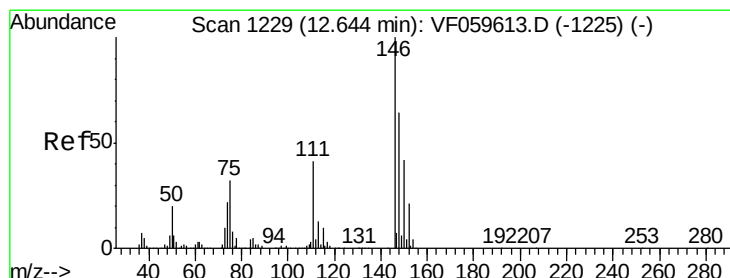
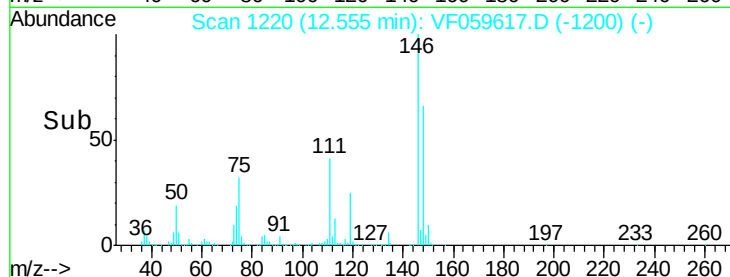
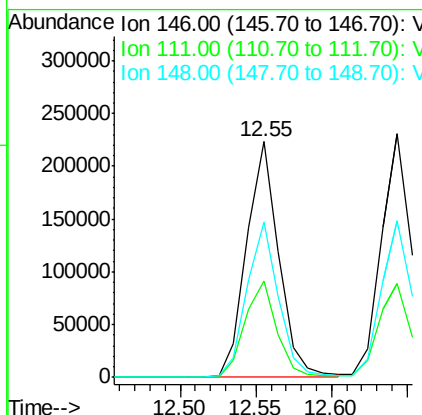
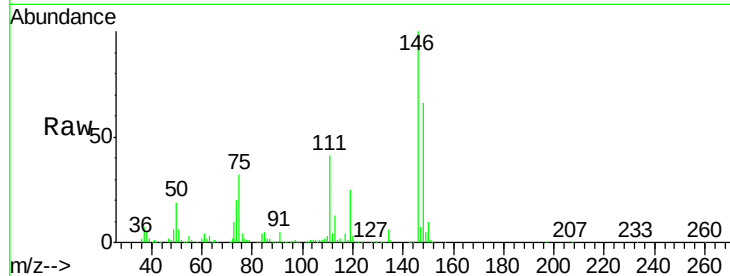




#87  
 1,3-Dichlorobenzene  
 Concen: 43.745 ug/l  
 RT: 12.55 min Scan# 1220  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

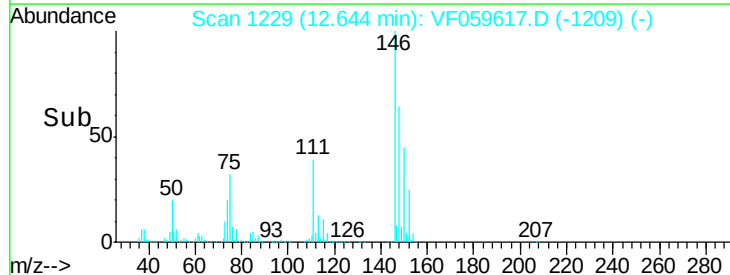
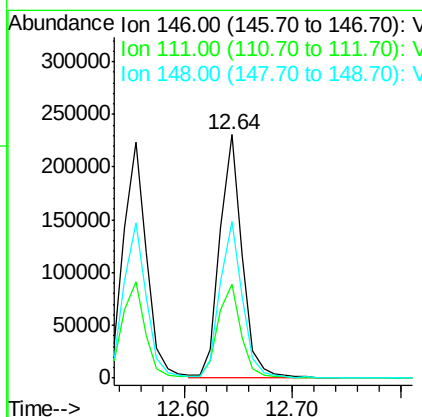
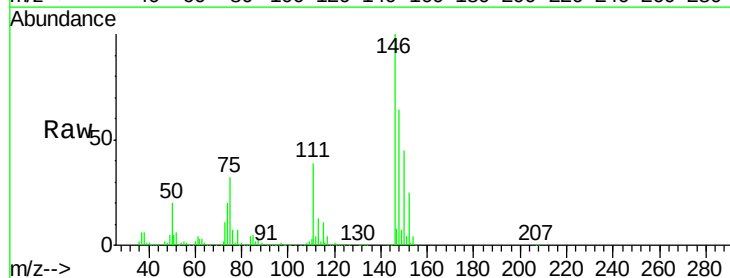
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVF072318

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.8  | 21.6  | 64.8  |
| 148     | 65.6  | 33.1  | 99.3  |

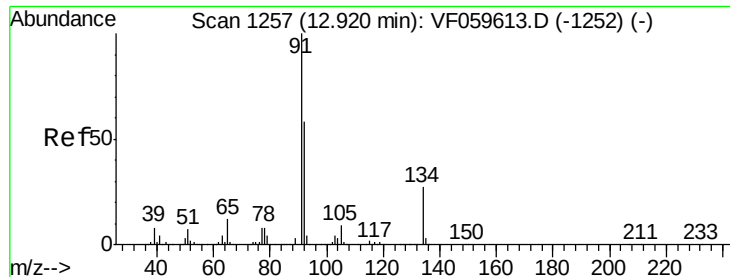


#88  
 1,4-Dichlorobenzene  
 Concen: 46.487 ug/l  
 RT: 12.64 min Scan# 1229  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.8  | 20.5  | 61.5  |
| 148     | 64.1  | 32.3  | 96.8  |



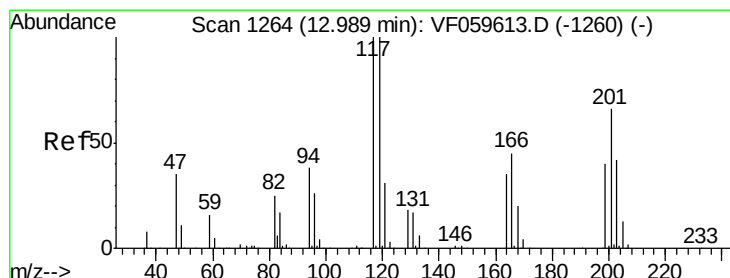
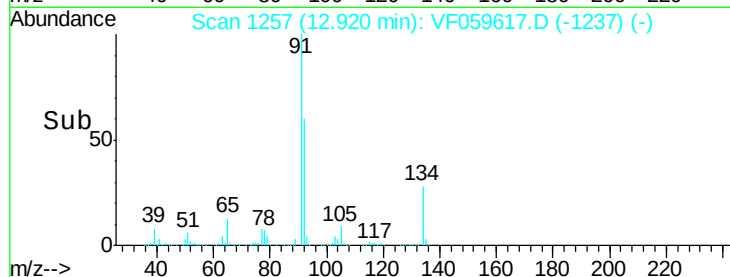
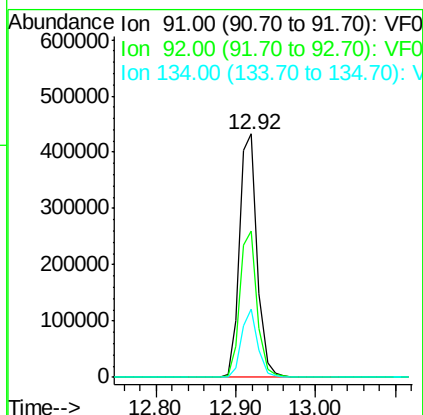
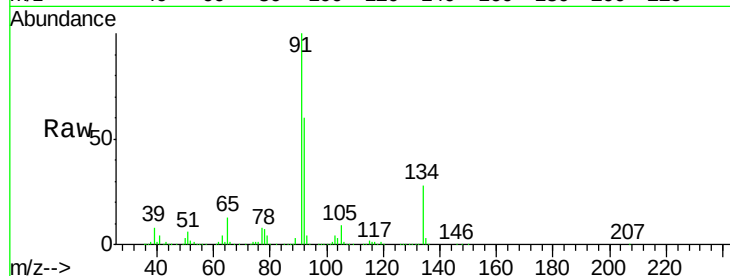




#89  
n-Butylbenzene  
Concen: 45.130 ug/l  
RT: 12.92 min Scan# 1257  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

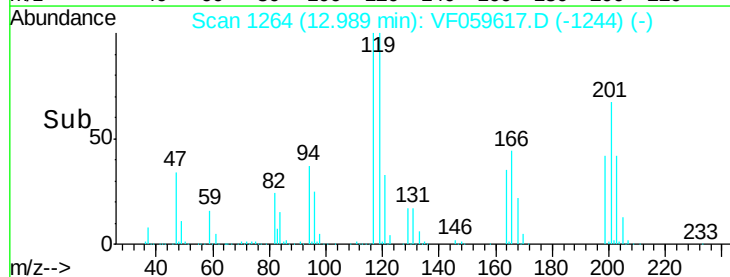
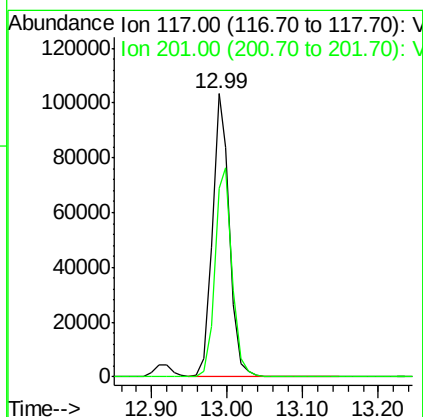
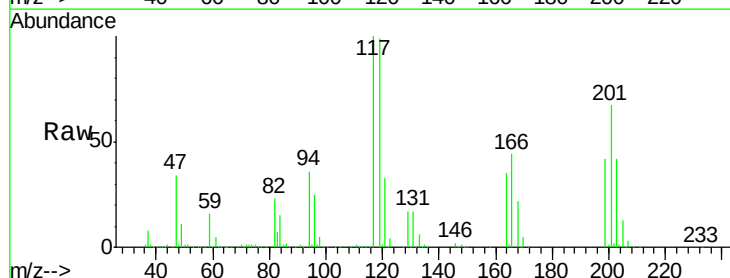
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

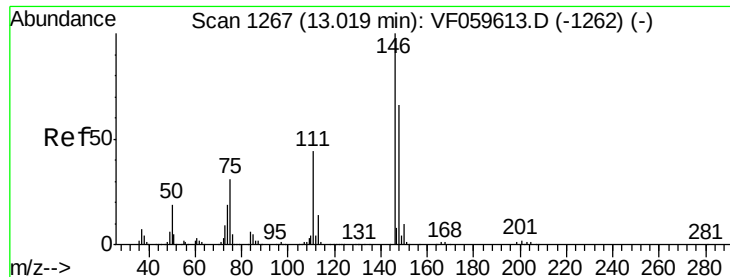
Tgt Ion: 91 Resp: 666381  
Ion Ratio Lower Upper  
91 100  
92 60.0 28.8 86.4  
134 27.9 13.5 40.4



#90  
Hexachloroethane  
Concen: 42.864 ug/l  
RT: 12.99 min Scan# 1264  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Tgt Ion: 117 Resp: 164115  
Ion Ratio Lower Upper  
117 100  
201 66.7 33.6 100.6

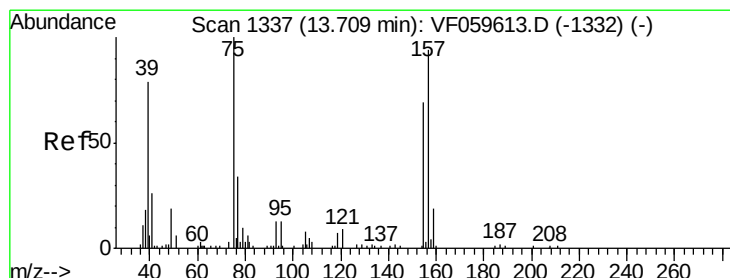
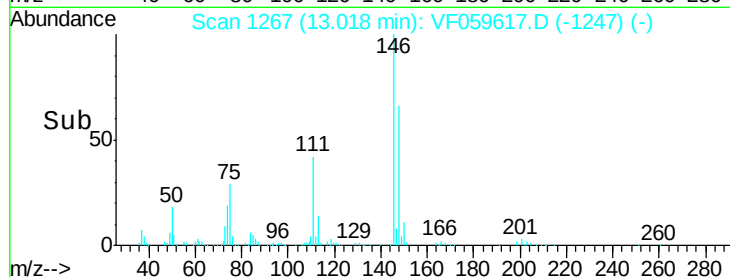
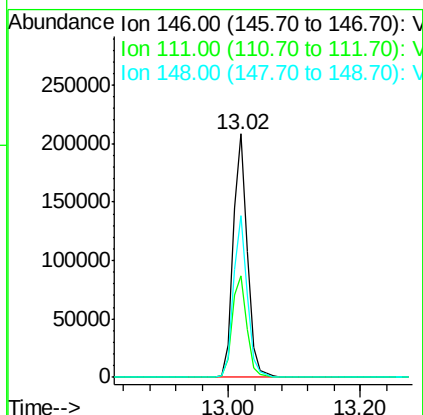
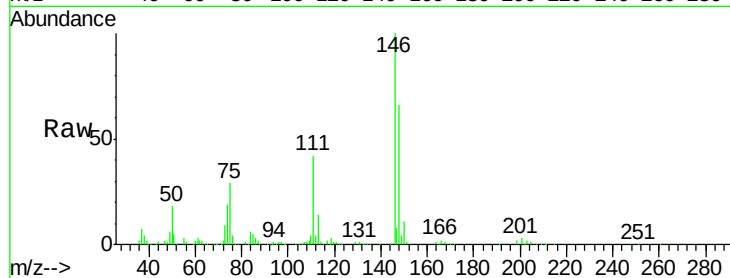




#91  
 1,2-Dichlorobenzene  
 Concen: 44.174 ug/l  
 RT: 13.02 min Scan# 1267  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

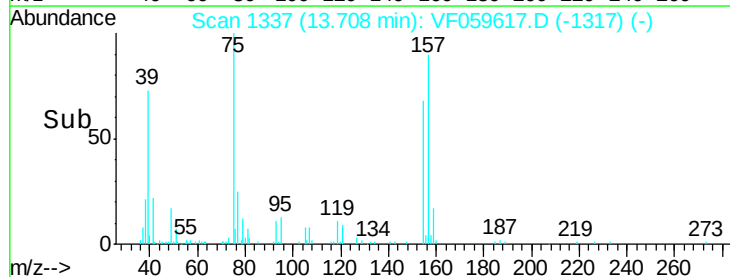
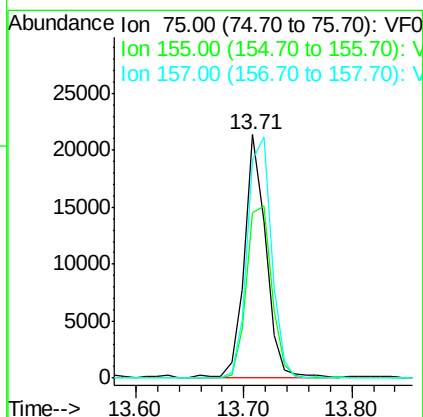
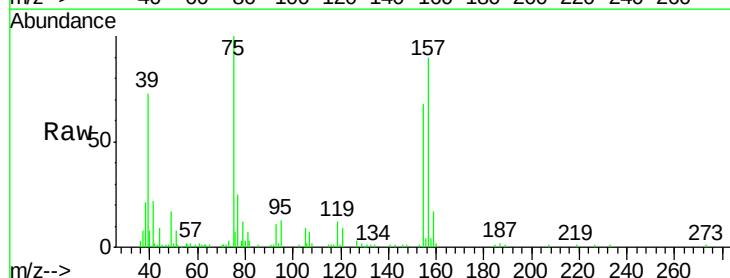
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVF072318

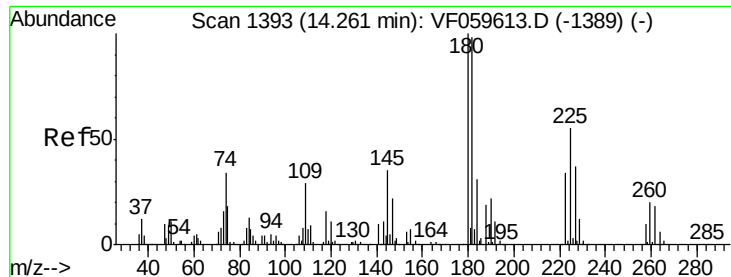
Tgt Ion: 146 Resp: 313947  
 Ion Ratio Lower Upper  
 146 100  
 111 41.8 21.8 65.3  
 148 66.3 32.9 98.7



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 47.942 ug/l  
 RT: 13.71 min Scan# 1337  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

Tgt Ion: 75 Resp: 29731  
 Ion Ratio Lower Upper  
 75 100  
 155 67.8 34.6 103.8  
 157 89.7 47.0 141.0

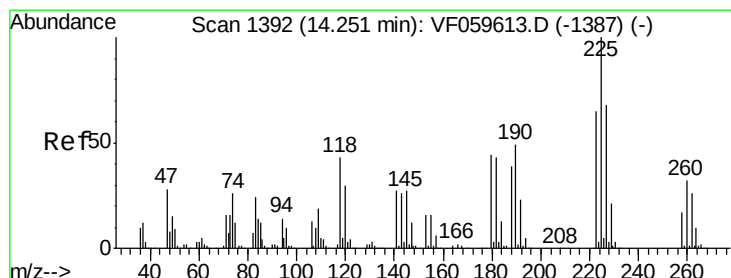
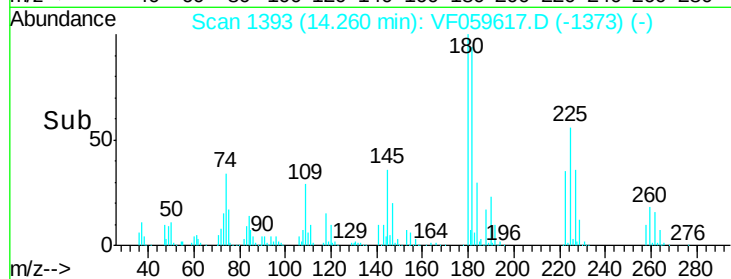
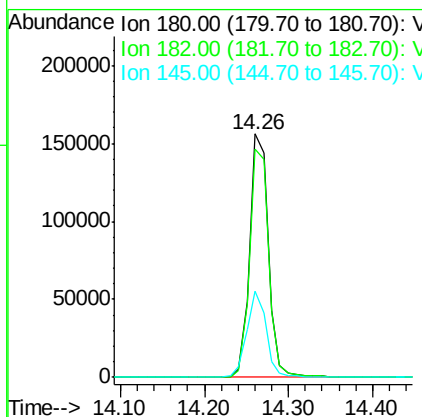
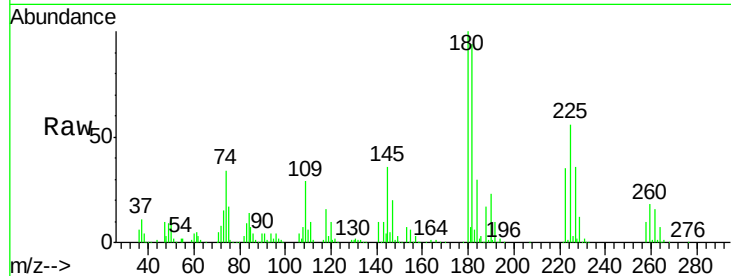




#93  
 1,2,4-Trichlorobenzene  
 Concen: 45.966 ug/l  
 RT: 14.26 min Scan# 1393  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

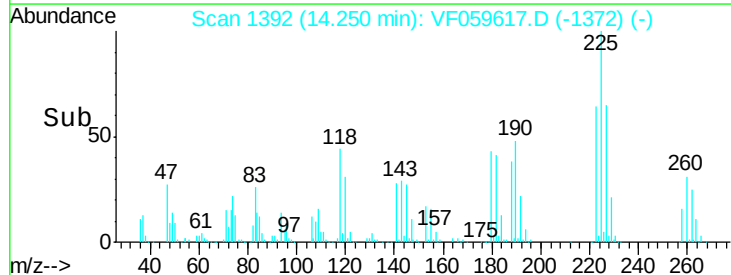
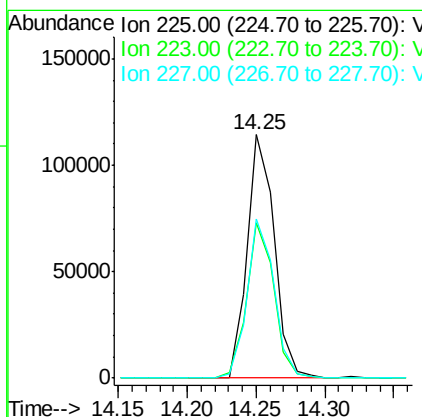
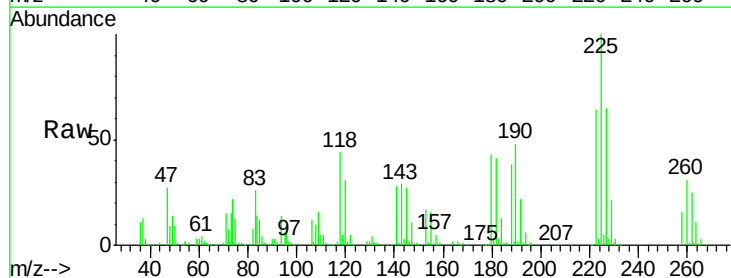
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVV072318

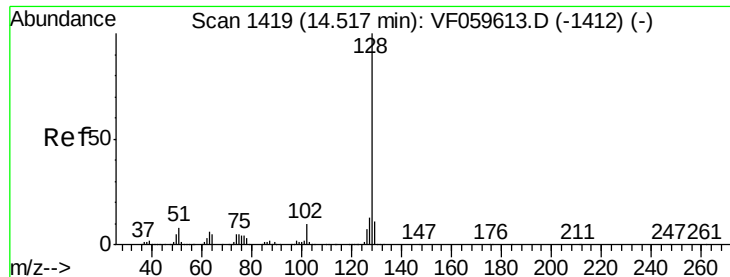
Tgt Ion:180 Resp: 244177  
 Ion Ratio Lower Upper  
 180 100  
 182 93.7 48.8 146.3  
 145 35.5 17.5 52.6



#94  
 Hexachlorobutadiene  
 Concen: 42.701 ug/l  
 RT: 14.25 min Scan# 1392  
 Delta R.T. -0.00 min  
 Lab File: VF059617.D  
 Acq: 23 Jul 2018 16:26

Tgt Ion:225 Resp: 157909  
 Ion Ratio Lower Upper  
 225 100  
 223 63.7 32.6 98.0  
 227 65.5 33.9 101.6

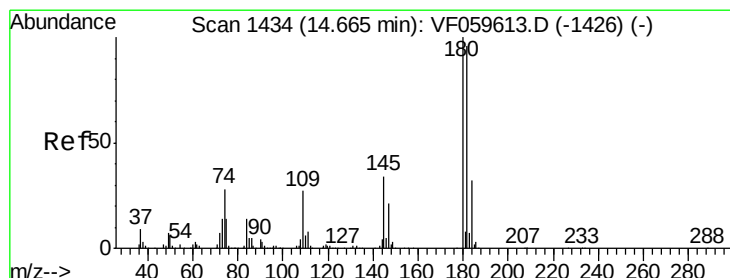
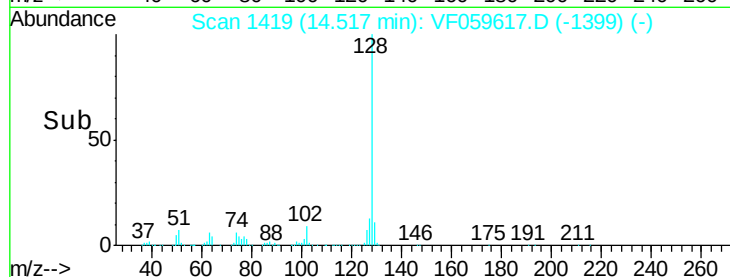
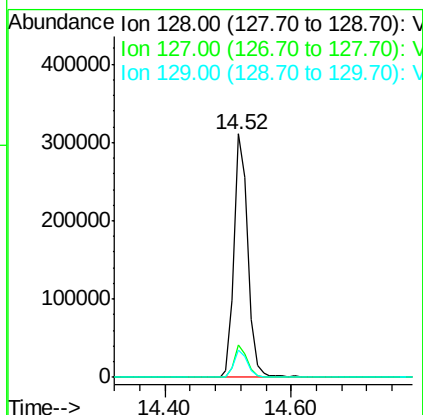
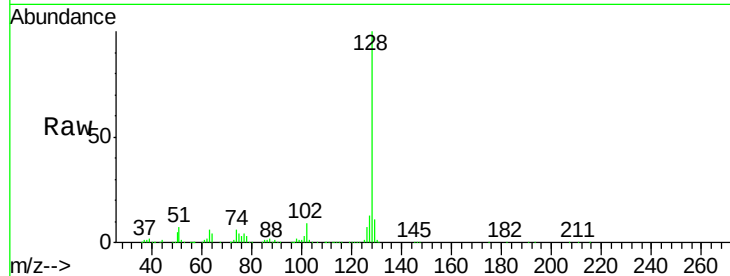




#95  
Naphthalene  
Concen: 53.360 ug/l  
RT: 14.52 min Scan# 1419  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF072318

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.2  | 10.2  | 15.2  |
| 129     | 11.4  | 9.1   | 13.7  |



#96  
1,2,3-Trichlorobenzene  
Concen: 47.080 ug/l  
RT: 14.66 min Scan# 1434  
Delta R.T. -0.00 min  
Lab File: VF059617.D  
Acq: 23 Jul 2018 16:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.1  | 48.0  | 144.2 |
| 145     | 32.7  | 17.1  | 51.2  |

