

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110718\  
 Data File : VF060627.D  
 Acq On : 7 Nov 2018 13:52  
 Operator : VA/AP  
 Sample : VF1107SBS01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Nov 07 14:35:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 03 05:29:31 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.88  | 168  | 287495   | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 5.61  | 114  | 501632   | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 439070   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 240775   | 50.00 | ug/l  | 0.01     |

## System Monitoring Compounds

|                           |       |     |          |       |         |      |
|---------------------------|-------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 4.85  | 65  | 165500   | 56.98 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 113.96% |      |
| 35) Dibromofluoromethane  | 4.12  | 113 | 194967   | 50.31 | ug/l    | 0.01 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 100.62% |      |
| 50) Toluene-d8            | 7.56  | 98  | 558850   | 48.68 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 97.36%  |      |
| 62) 4-Bromofluorobenzene  | 11.42 | 95  | 255586   | 50.90 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 101.80% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.96 | 85  | 82303  | 25.430  | ug/l   | 99     |
| 3) Chloromethane              | 1.10 | 50  | 56059  | 22.280  | ug/l   | 96     |
| 4) Vinyl Chloride             | 1.14 | 62  | 54071  | 23.321  | ug/l   | 94     |
| 5) Bromomethane               | 1.32 | 94  | 25455  | 19.559  | ug/l   | 100    |
| 6) Chloroethane               | 1.37 | 64  | 16828  | 17.290  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 1.49 | 101 | 63543  | 14.643  | ug/l   | 93     |
| 8) Diethyl Ether              | 1.63 | 74  | 13064  | 16.243  | ug/l   | 85     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.81 | 101 | 51698  | 20.848  | ug/l   | 94     |
| 10) Methyl Iodide             | 1.89 | 142 | 86487  | 21.194  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 2.57 | 59  | 13202  | 82.237  | ug/l # | 80     |
| 12) 1,1-Dichloroethene        | 1.78 | 96  | 42013  | 20.116  | ug/l   | 93     |
| 13) Acrolein                  | 2.00 | 56  | 14372  | 135.401 | ug/l   | 93     |
| 14) Allyl chloride            | 2.10 | 41  | 73536  | 21.563  | ug/l   | 98     |
| 15) Acrylonitrile             | 2.95 | 53  | 32829  | 94.830  | ug/l   | 91     |
| 16) Acetone                   | 2.25 | 43  | 73023  | 106.685 | ug/l   | 98     |
| 17) Carbon Disulfide          | 1.82 | 76  | 128265 | 21.802  | ug/l   | 97     |
| 18) Methyl Acetate            | 2.43 | 43  | 32095  | 30.377  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 2.43 | 73  | 103174 | 21.132  | ug/l   | 100    |
| 20) Methylene Chloride        | 2.19 | 84  | 44297  | 18.370  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 2.31 | 96  | 46473  | 21.209  | ug/l   | 99     |
| 22) Diisopropyl ether         | 2.81 | 45  | 154458 | 21.377  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.19 | 43  | 413354 | 95.215  | ug/l   | 96     |
| 24) 1,1-Dichloroethane        | 2.88 | 63  | 84802  | 20.280  | ug/l   | 97     |
| 25) 2-Butanone                | 4.34 | 43  | 148879 | 95.881  | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 3.61 | 77  | 74975  | 23.962  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 3.48 | 96  | 85661  | 20.479  | ug/l   | 92     |
| 28) Bromochloromethane        | 3.72 | 49  | 55227  | 21.045  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 4.08 | 42  | 52505  | 96.899  | ug/l   | 97     |
| 30) Chloroform                | 3.86 | 83  | 141867 | 21.444  | ug/l   | 99     |
| 31) Cyclohexane               | 3.70 | 56  | 124962 | 21.655  | ug/l   | 94     |
| 32) 1,1,1-Trichloroethane     | 4.11 | 97  | 112316 | 24.308  | ug/l   | 89     |
| 36) 1,1-Dichloropropene       | 4.29 | 75  | 116528 | 21.098  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.12 | 43  | 48781  | 18.398  | ug/l # | 83     |
| 38) Carbon Tetrachloride      | 4.00 | 117 | 118338 | 25.073  | ug/l   | 93     |

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 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Nov 07 14:35:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 03 05:29:31 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.46  | 83   | 144548   | 21.445  | ug/l   | 98       |
| 40) Benzene                    | 4.64  | 78   | 278593   | 20.780  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.75  | 41   | 28185    | 18.771  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 4.95  | 62   | 82104    | 21.337  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.97  | 43   | 60161    | 17.938  | ug/l # | 95       |
| 44) Trichloroethene            | 5.51  | 130  | 82879    | 20.569  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 6.24  | 63   | 73571    | 21.456  | ug/l   | 99       |
| 46) Dibromomethane             | 6.10  | 93   | 42273    | 19.433  | ug/l   | 88       |
| 47) Bromodichloromethane       | 6.40  | 83   | 106328   | 20.265  | ug/l   | 97       |
| 48) Methyl methacrylate        | 6.72  | 41   | 37012    | 17.559  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 6.72  | 88   | 7632     | 346.126 | ug/l # | 73       |
| 51) 4-Methyl-2-Pentanone       | 8.26  | 43   | 215848   | 95.707  | ug/l   | 100      |
| 52) Toluene                    | 7.63  | 92   | 160156   | 18.338  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.29  | 75   | 89144    | 19.548  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene    | 7.32  | 75   | 119563   | 20.751  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 8.50  | 97   | 50009    | 19.678  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 8.63  | 69   | 60501    | 18.503  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 8.86  | 76   | 90825    | 20.368  | ug/l   | 92       |
| 58) 2-Chloroethyl Vinyl ether  | 7.63  | 63   | 21758    | 90.737  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.51  | 43   | 166847   | 95.949  | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.73  | 129  | 67745    | 19.060  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 8.99  | 107  | 54530    | 20.404  | ug/l   | 90       |
| 64) Tetrachloroethene          | 8.16  | 164  | 71428    | 20.758  | ug/l   | 95       |
| 65) Chlorobenzene              | 9.81  | 112  | 185448   | 20.654  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.94  | 131  | 78820    | 20.775  | ug/l   | 96       |
| 67) Ethyl Benzene              | 9.91  | 91   | 335806   | 20.609  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.14 | 106  | 246231   | 40.117  | ug/l   | 92       |
| 69) o-Xylene                   | 10.72 | 106  | 144997   | 21.635  | ug/l   | 91       |
| 70) Styrene                    | 10.80 | 104  | 194419   | 20.023  | ug/l   | 98       |
| 71) Bromoform                  | 10.78 | 173  | 36568    | 18.662  | ug/l   | 99       |
| 73) Isopropylbenzene           | 11.13 | 105  | 400467   | 21.327  | ug/l   | 96       |
| 74) N-amyl acetate             | 11.38 | 43   | 98716    | 18.505  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.70 | 83   | 70233    | 20.491  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.87 | 75   | 32223    | 19.130  | ug/l   | 99       |
| 77) Bromobenzene               | 11.51 | 156  | 83680    | 20.366  | ug/l   | 86       |
| 78) n-propylbenzene            | 11.61 | 91   | 474680   | 21.606  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.72 | 91   | 270689   | 21.574  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.83 | 105  | 318012   | 20.546  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.87 | 75   | 32223    | 24.342  | ug/l   | 87       |
| 82) 4-Chlorotoluene            | 11.91 | 91   | 259009   | 19.786  | ug/l   | 94       |
| 83) tert-Butylbenzene          | 12.14 | 119  | 340079   | 21.508  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.21 | 105  | 317518   | 20.948  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 12.32 | 105  | 463974   | 21.331  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.46 | 119  | 373183   | 20.834  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.48 | 146  | 162219   | 20.115  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.57 | 146  | 157613   | 20.605  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.85 | 91   | 389906   | 19.897  | ug/l   | 95       |
| 90) Hexachloroethane           | 12.93 | 117  | 92748    | 20.361  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene        | 12.95 | 146  | 155967   | 20.672  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.65 | 75   | 11835    | 19.875  | ug/l   | 95       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF110718\  
Data File : VF060627.D  
Acq On : 7 Nov 2018 13:52  
Operator : VA/AP  
Sample : VF1107SBS01  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 5 Sample Multiplier: 1

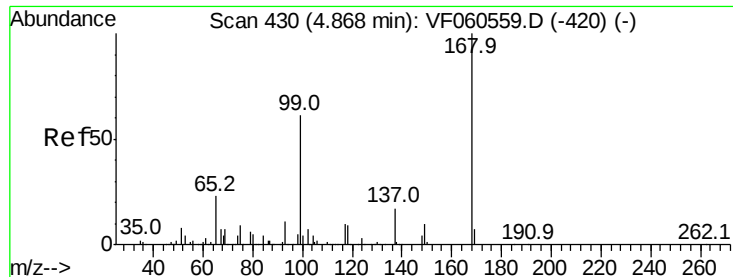
Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: Nov 07 14:35:26 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F110218S.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 03 05:29:31 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.21 | 180  | 113502   | 22.144 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.20 | 225  | 71801    | 21.618 | ug/l  | 97       |
| 95) Naphthalene            | 14.47 | 128  | 190711   | 18.589 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.60 | 180  | 99971    | 20.647 | ug/l  | 95       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

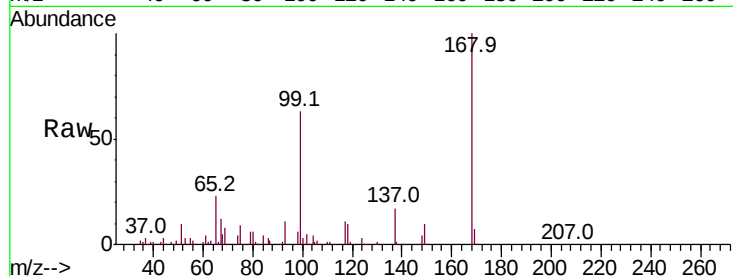
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:168 Resp: 287495

Ion Ratio Lower Upper

168 100

99 63.4 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

100000

80000

60000

40000

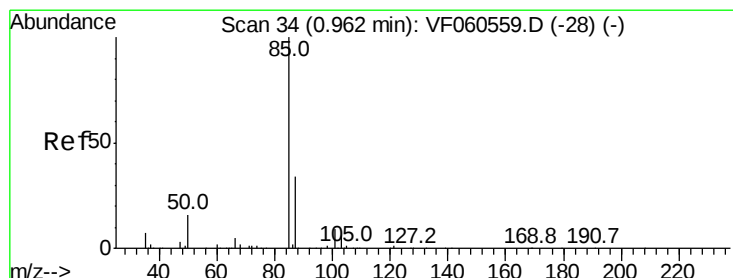
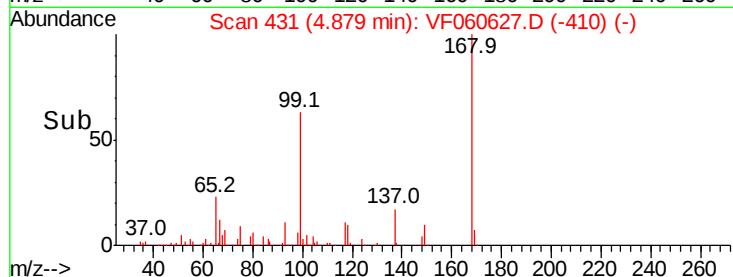
20000

0

4.88

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 25.430 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060627.D

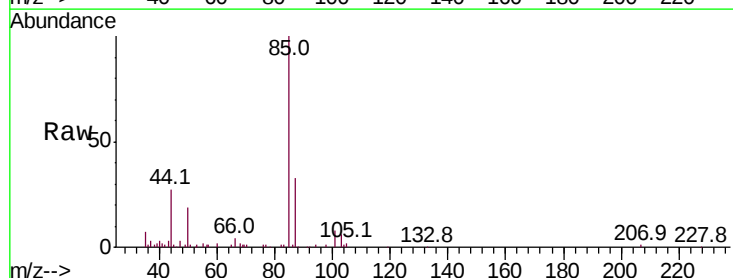
Acq: 7 Nov 2018 13:52

Tgt Ion: 85 Resp: 82303

Ion Ratio Lower Upper

85 100

87 33.5 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

25000

20000

15000

10000

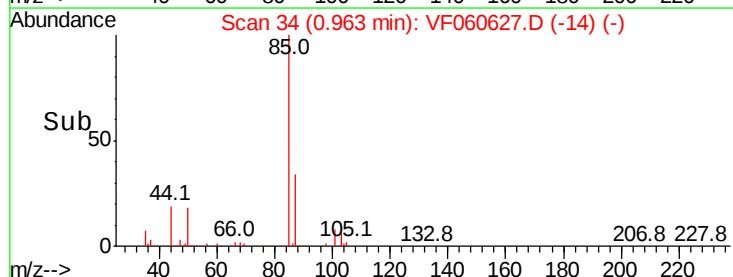
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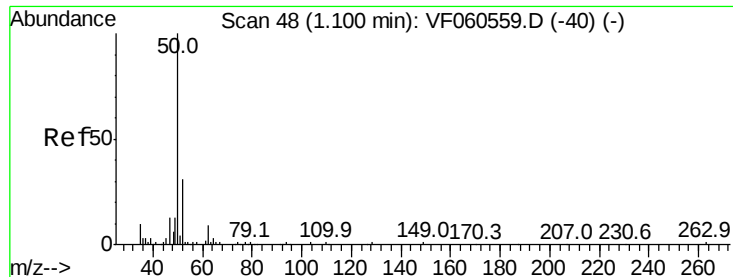
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0.96

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 22.280 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

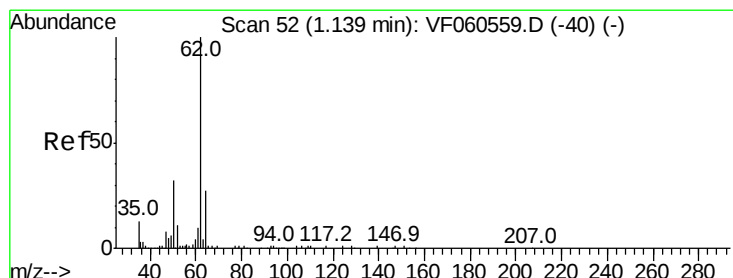
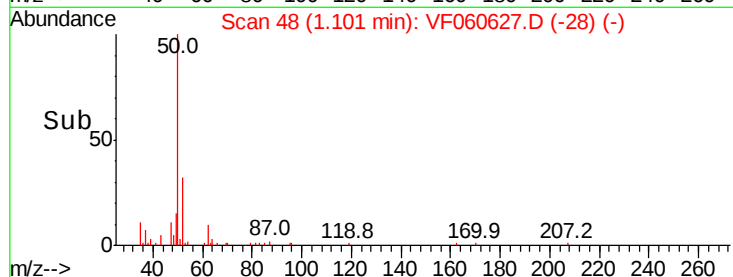
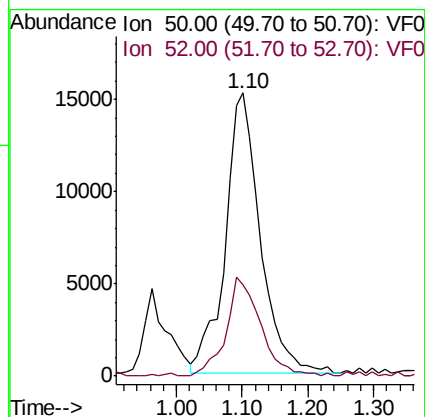
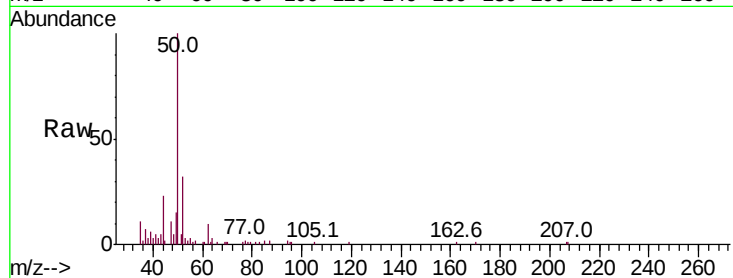
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 50 Resp: 56059

Ion Ratio Lower Upper

50 100

52 32.1 24.0 36.0



#4

Vinyl Chloride

Concen: 23.321 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF060627.D

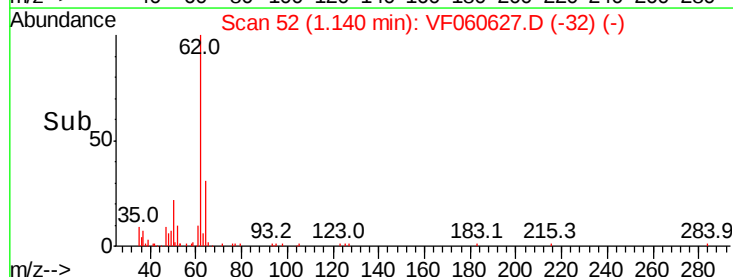
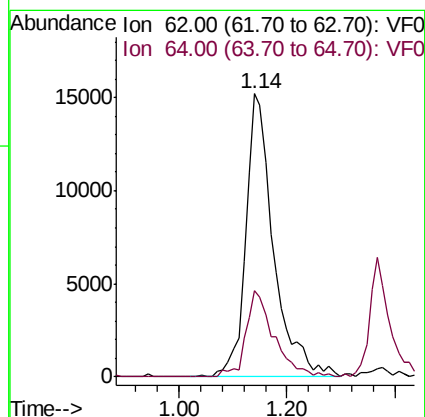
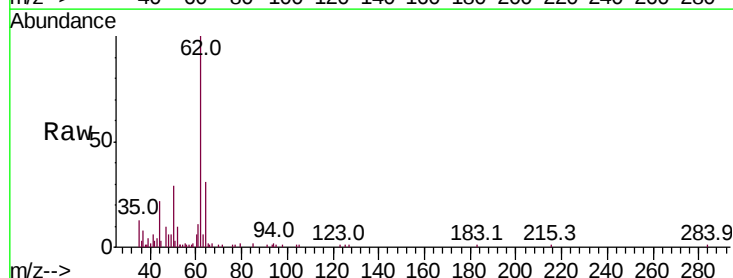
Acq: 7 Nov 2018 13:52

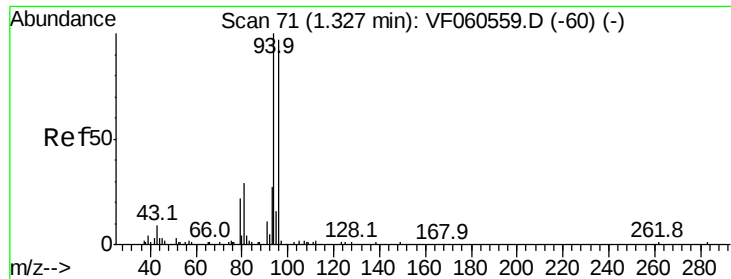
Tgt Ion: 62 Resp: 54071

Ion Ratio Lower Upper

62 100

64 30.5 21.8 32.6





#5

Bromomethane

Concen: 19.559 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

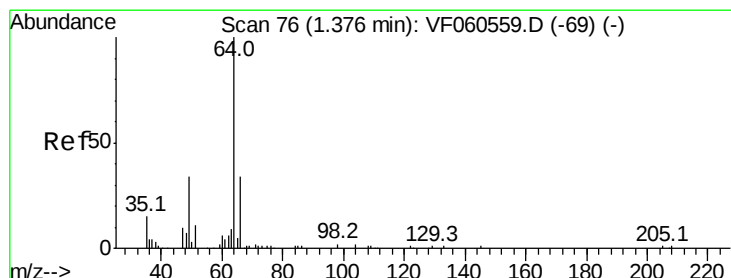
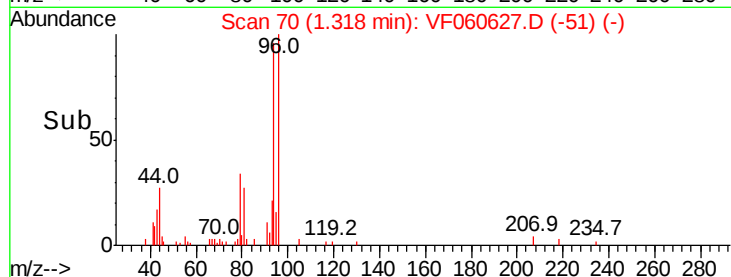
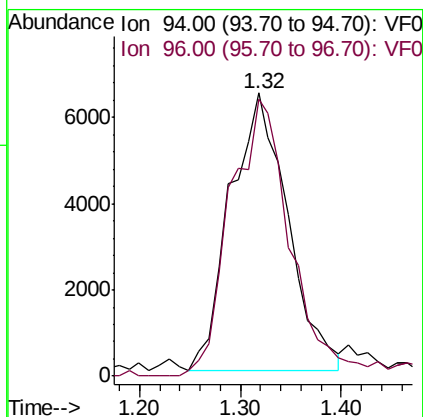
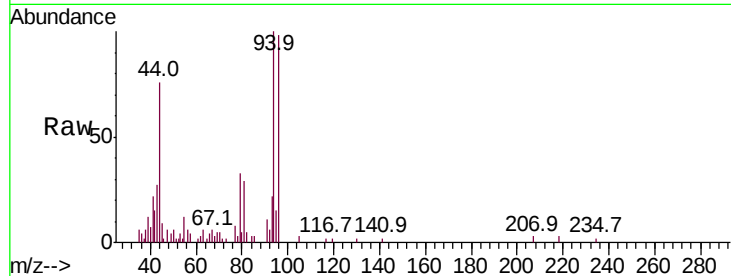
ClientSampled :

Tot Ion: 94 Resp: 25455

Ion Ratio Lower Upper

94 100

96 97.7 77.9 116.9



#6

Chloroethane

Concen: 17.290 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060627.D

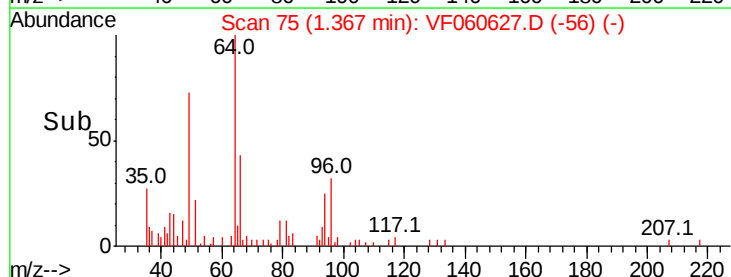
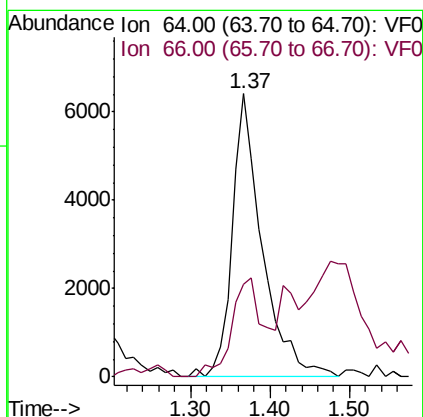
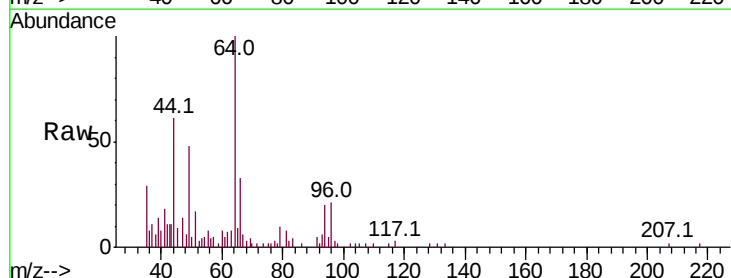
Acq: 7 Nov 2018 13:52

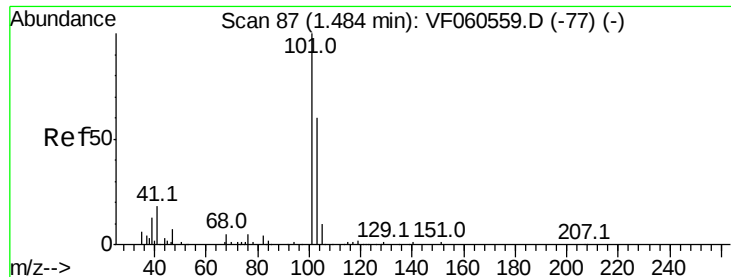
Tgt Ion: 64 Resp: 16828

Ion Ratio Lower Upper

64 100

66 32.9 27.8 41.8



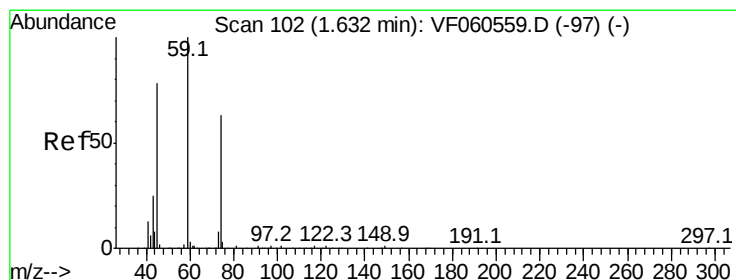
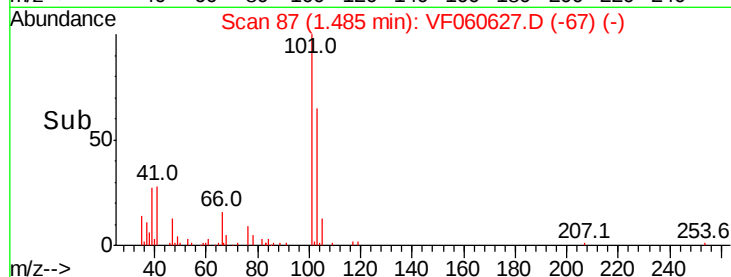
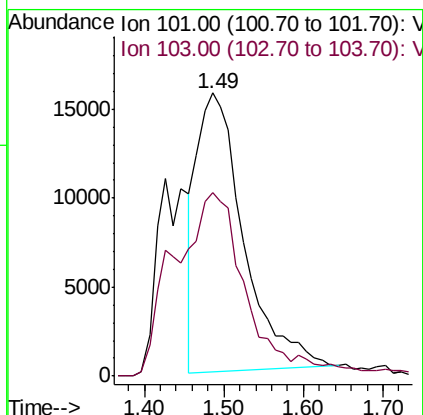
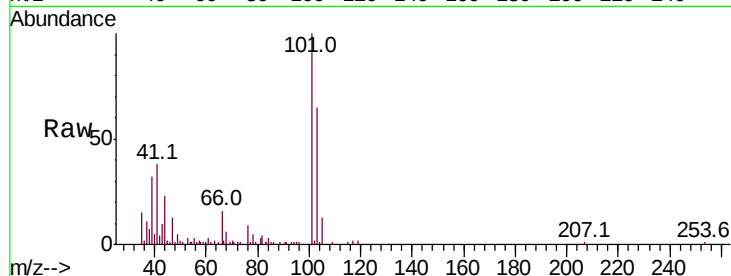


#7

Trichlorofluoromethane  
Concen: 14.643 ug/l  
RT: 1.49 min Scan# 87  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Instrument :  
MSVOA\_F  
ClientSampleId :

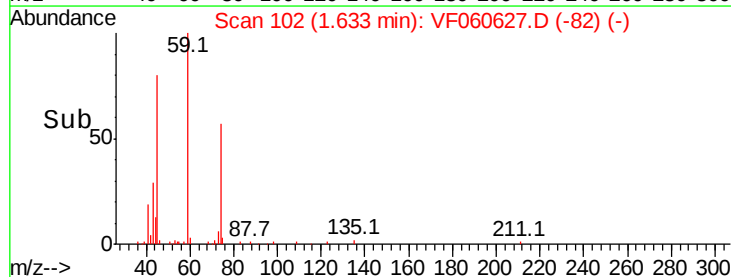
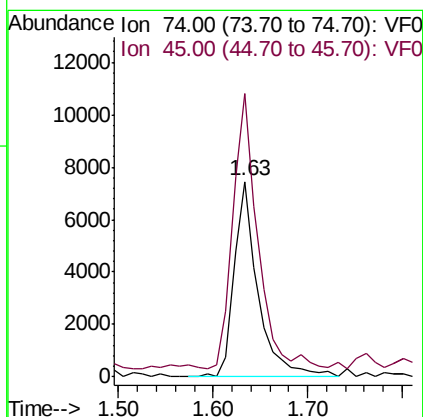
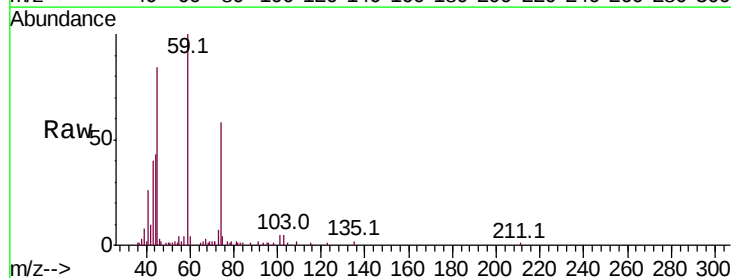
Tot Ion:101 Resp: 63543  
Ion Ratio Lower Upper  
101 100  
103 65.0 48.0 72.0

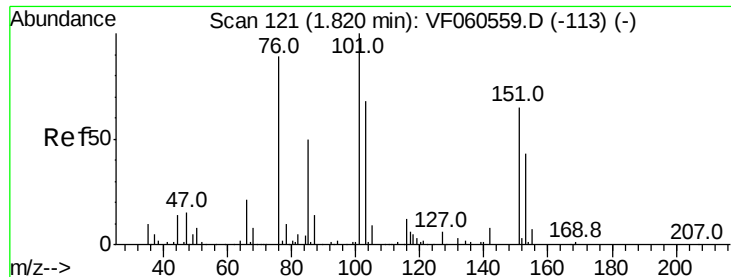


#8

Diethyl Ether  
Concen: 16.243 ug/l  
RT: 1.63 min Scan# 102  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 74 Resp: 13064  
Ion Ratio Lower Upper  
74 100  
45 144.7 63.8 191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.848 ug/l

RT: 1.81 min Scan# 120

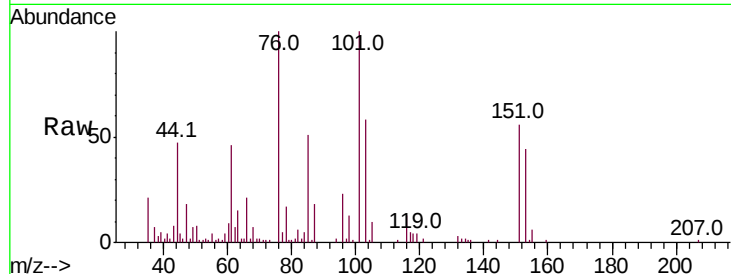
Delta R.T. -0.01 min

Lab File: VF060627.D

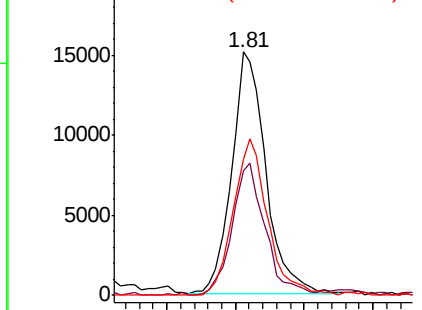
Acq: 7 Nov 2018 13:52

Instrument :  
MSVOA\_F  
ClientSampleId :

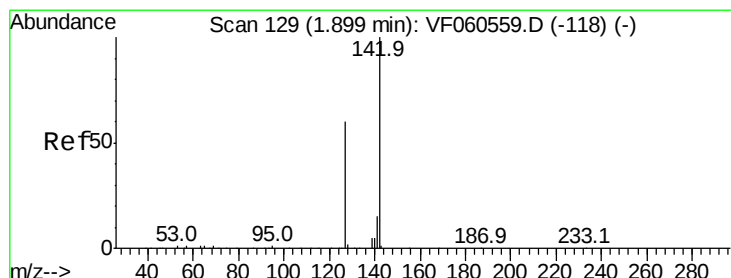
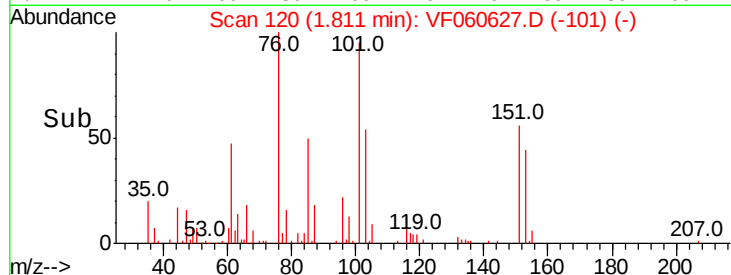
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 101   | Resp: | 51698 |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 50.9  | 39.8  | 59.6  |
| 151      | 55.7  | 50.8  | 76.2  |



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



Time-->



#10

Methyl Iodide

Concen: 21.194 ug/l

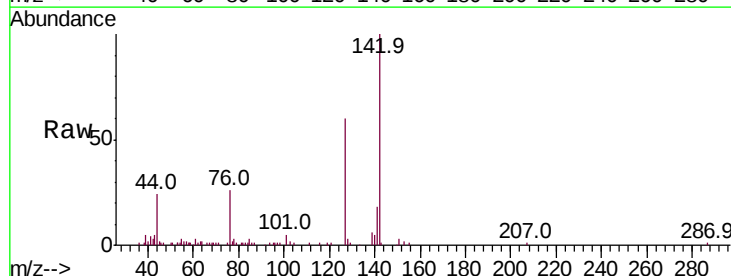
RT: 1.89 min Scan# 128

Delta R.T. -0.01 min

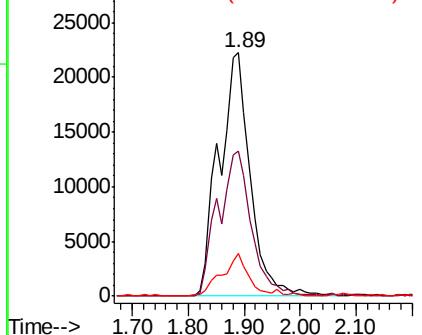
Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

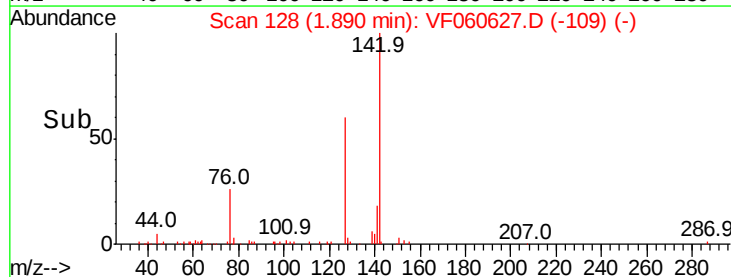
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 86487 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 59.8  | 47.8  | 71.6  |
| 141      | 17.8  | 12.7  | 19.1  |

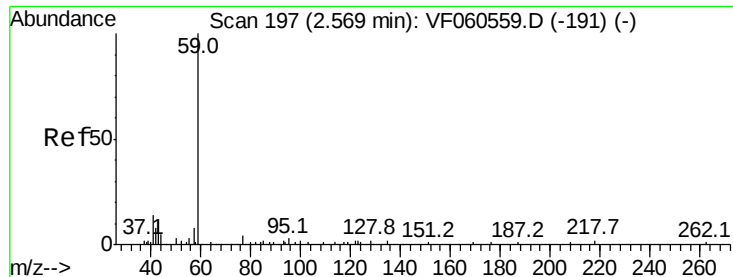


Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 141.00 (140.70 to 141.70): V



Time-->



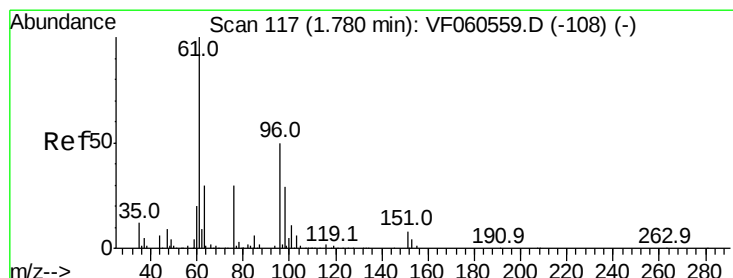
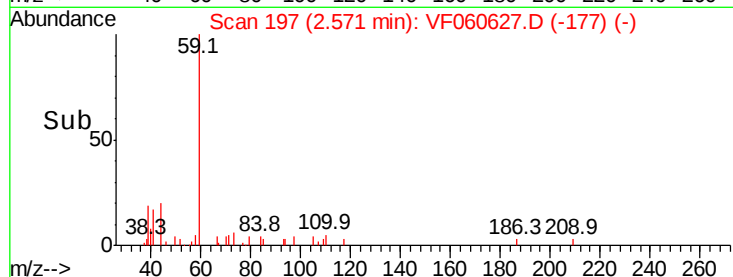
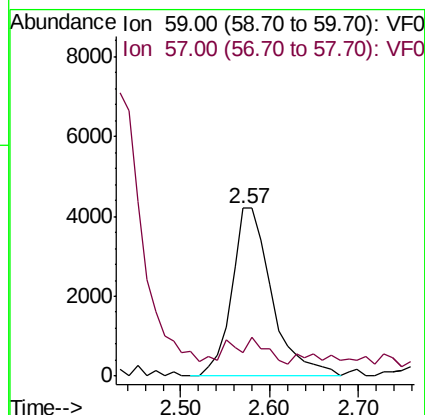
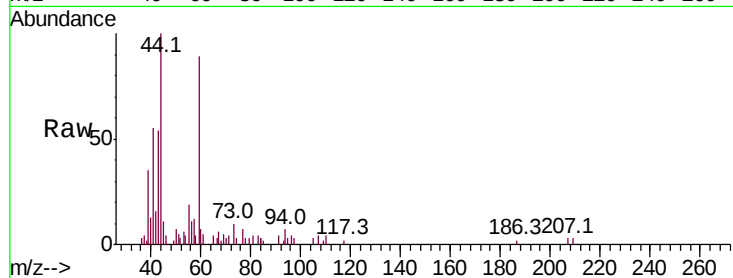


#11

Tert butyl alcohol  
Concen: 82.237 ug/l  
RT: 2.57 min Scan# 197  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Instrument :  
MSVOA\_F  
ClientSampled :

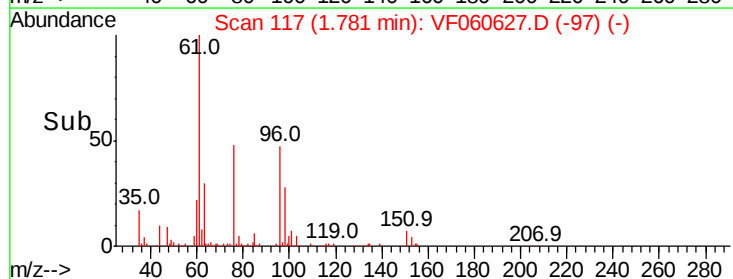
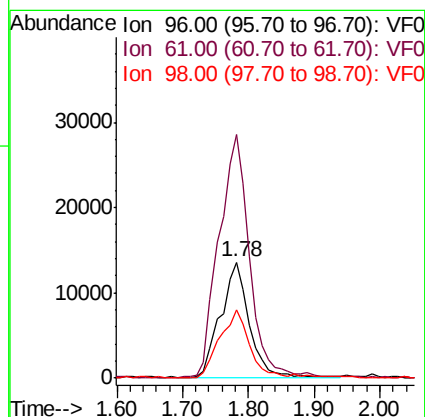
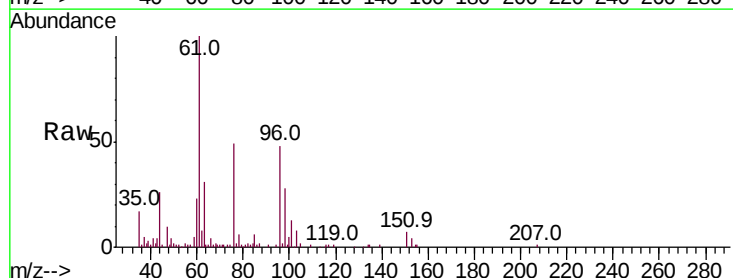
Tot Ion: 59 Resp: 13202  
Ion Ratio Lower Upper  
59 100  
57 14.0 19.0 28.4#

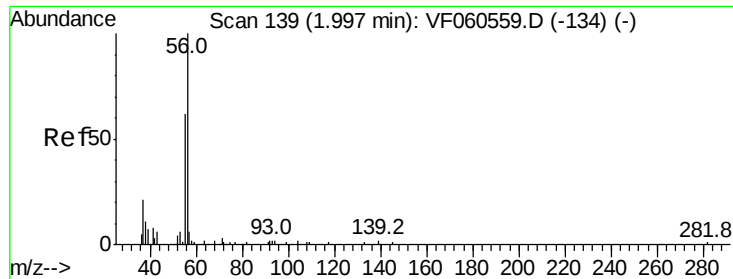


#12

1,1-Dichloroethene  
Concen: 20.116 ug/l  
RT: 1.78 min Scan# 117  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 96 Resp: 42013  
Ion Ratio Lower Upper  
96 100  
61 209.9 158.1 237.1  
98 59.4 47.0 70.6





#13

Acrolein

Concen: 135.401 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

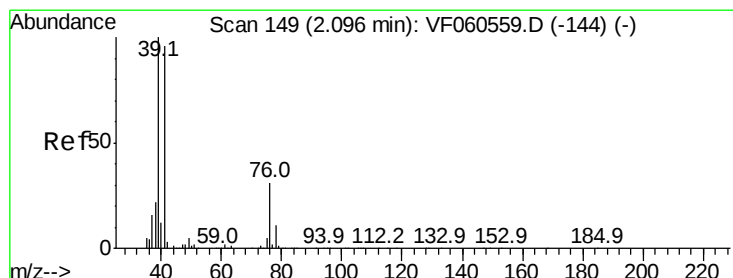
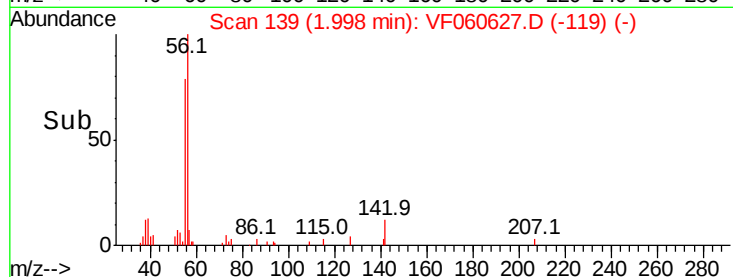
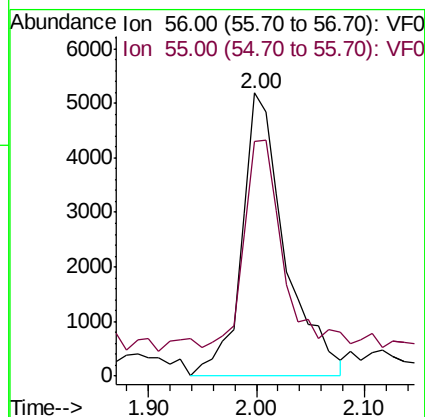
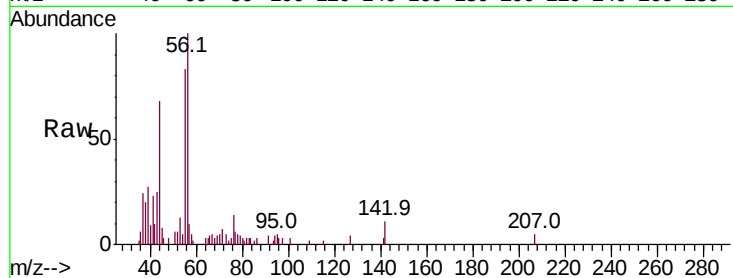
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 56 Resp: 14372

Ion Ratio Lower Upper

56 100

55 83.0 61.8 92.6



#14

Allyl chloride

Concen: 21.563 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

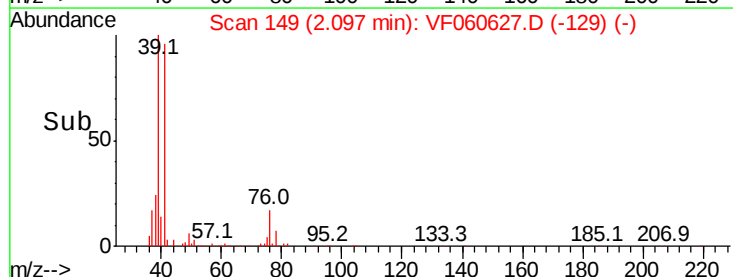
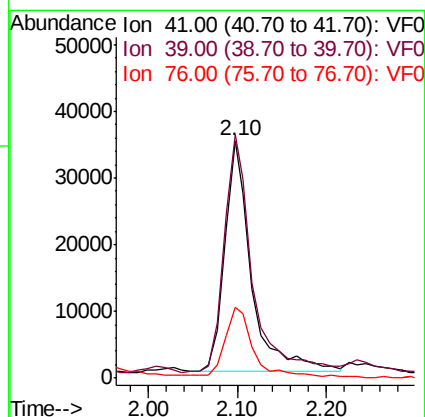
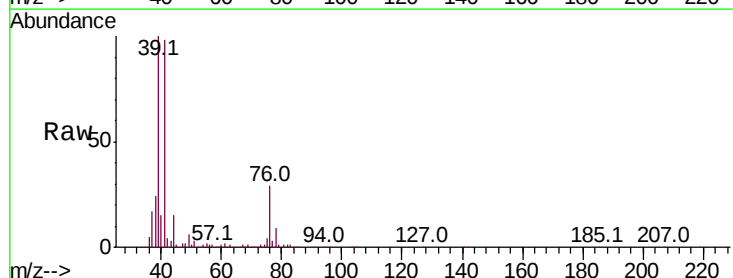
Tgt Ion: 41 Resp: 73536

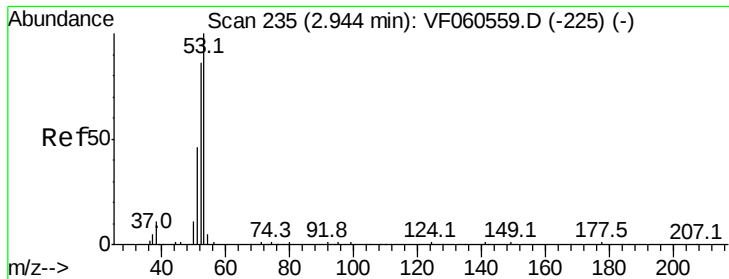
Ion Ratio Lower Upper

41 100

39 102.5 82.6 124.0

76 30.0 26.7 40.1





#15

Acrylonitrile

Concen: 94.830 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

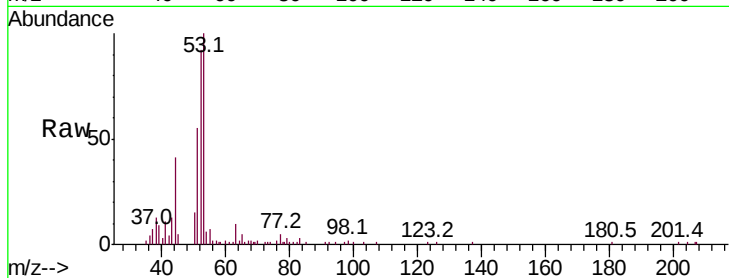
Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion: 53 Resp: 32829

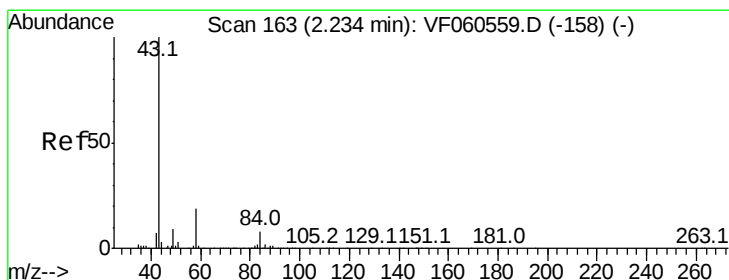
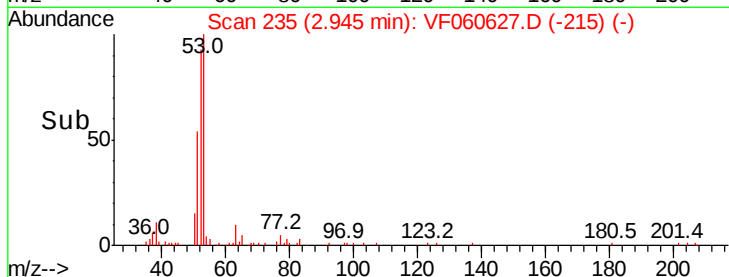
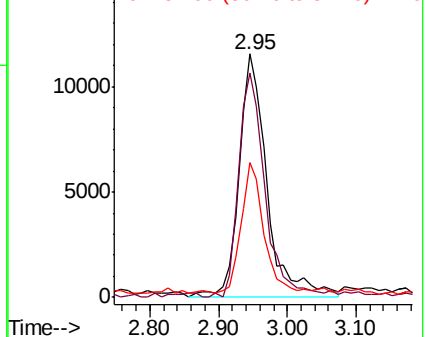
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 92.0  | 68.5  | 102.7 |
| 51  | 55.3  | 38.2  | 57.2  |



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: 106.685 ug/l

RT: 2.25 min Scan# 164

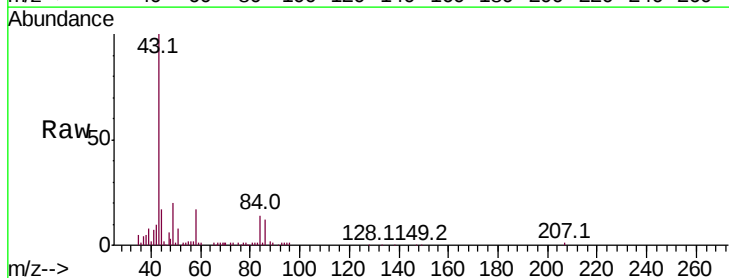
Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

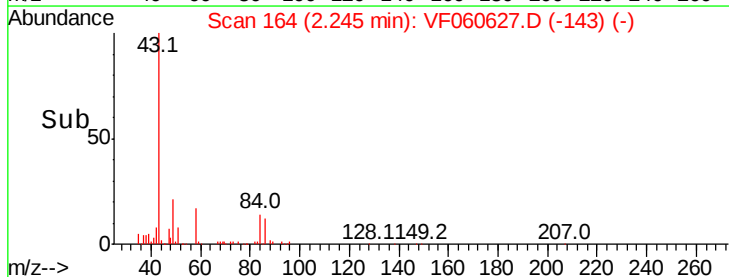
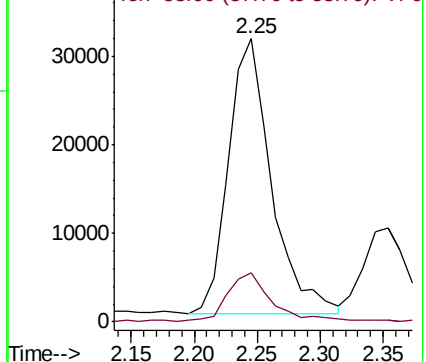
Tgt Ion: 43 Resp: 73023

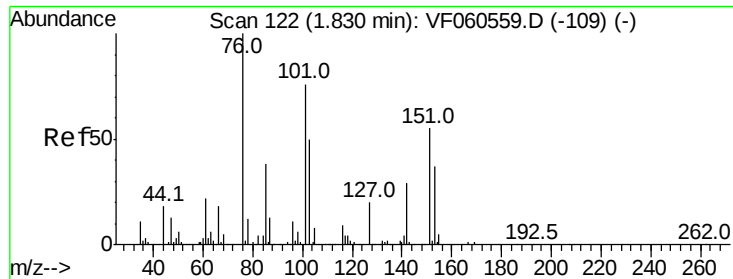
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 17.2  | 14.6  | 22.0  |



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

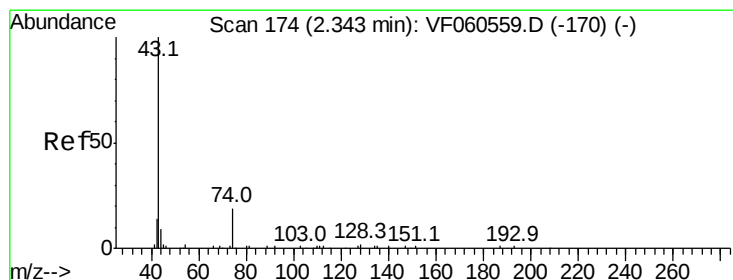
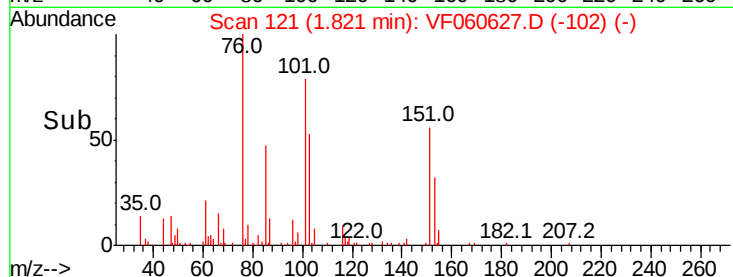
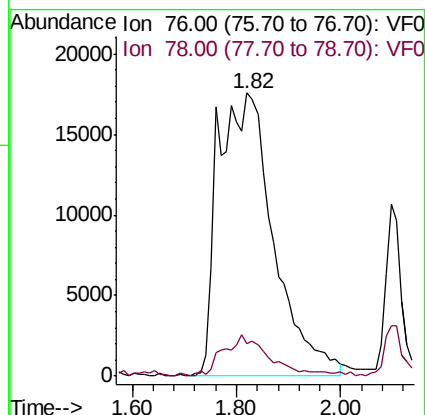
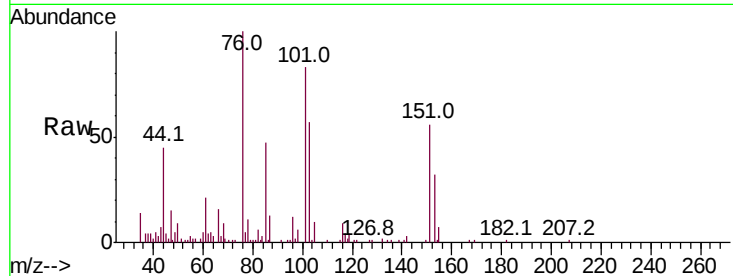




#17  
Carbon Disulfide  
Concen: 21.802 ug/l  
RT: 1.82 min Scan# 121  
Delta R.T. -0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

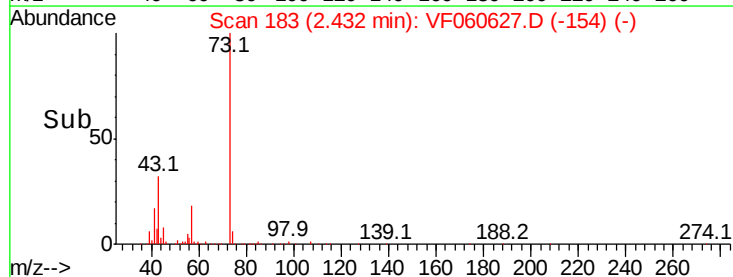
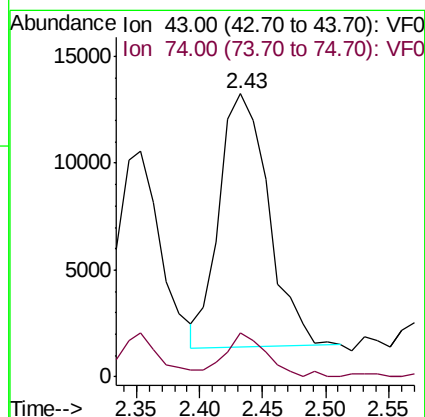
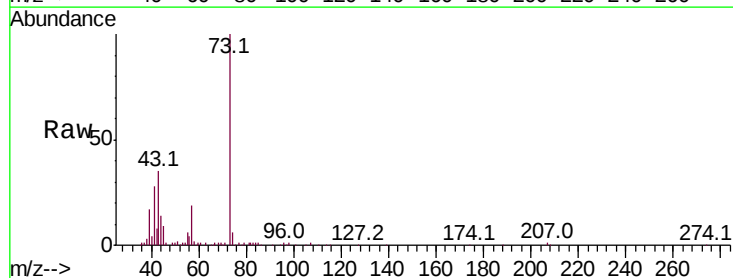
Instrument :  
MSVOA\_F  
ClientSampleId :

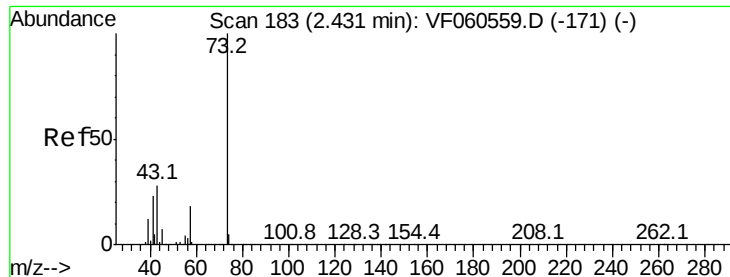
Tot Ion: 76 Resp: 128265  
Ion Ratio Lower Upper  
76 100  
78 11.3 9.9 14.9



#18  
Methyl Acetate  
Concen: 30.377 ug/l  
RT: 2.43 min Scan# 183  
Delta R.T. 0.09 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 43 Resp: 32095  
Ion Ratio Lower Upper  
43 100  
74 15.7 12.1 18.1



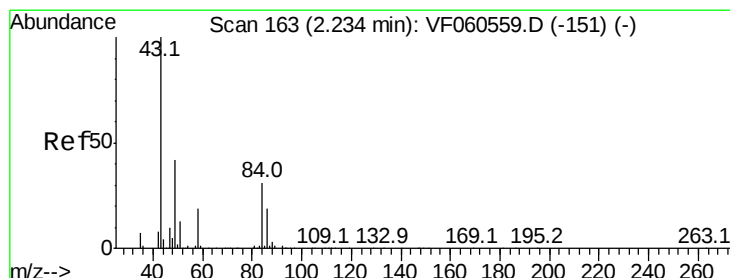
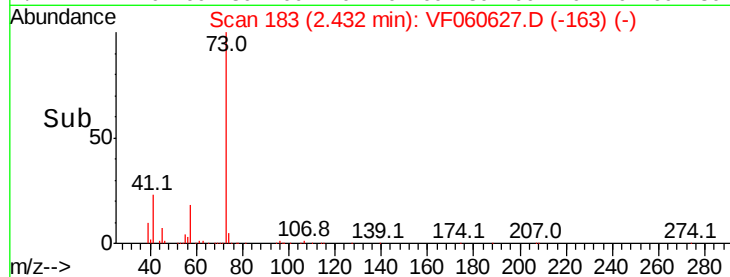
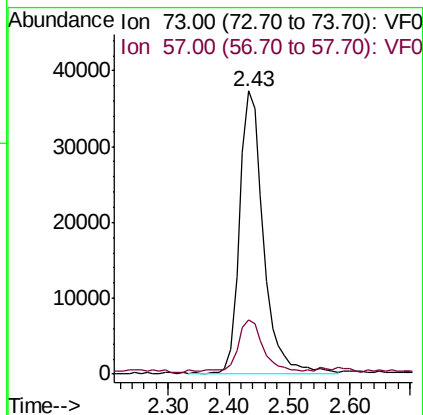
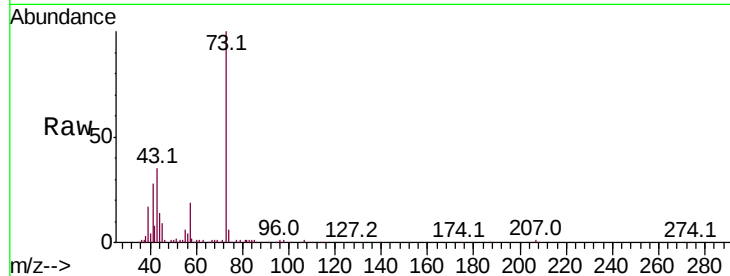


#19

Methyl tert-butyl Ether  
 Concen: 21.132 ug/l  
 RT: 2.43 min Scan# 183  
 Delta R.T. 0.00 min  
 Lab File: VF060627.D  
 Acq: 7 Nov 2018 13:52

Instrument :  
 MSVOA\_F  
 ClientSampleId :

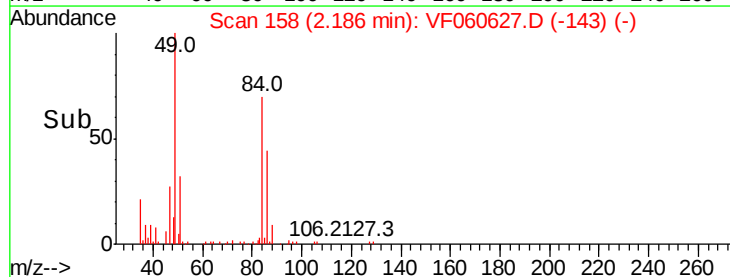
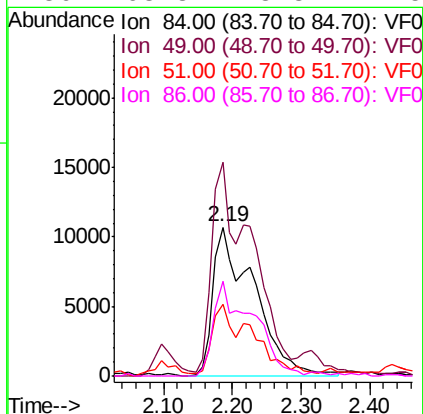
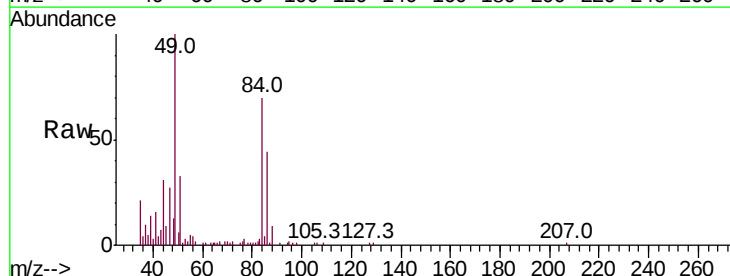
Tot Ion: 73 Resp: 103174  
 Ion Ratio Lower Upper  
 73 100  
 57 19.0 15.4 23.0

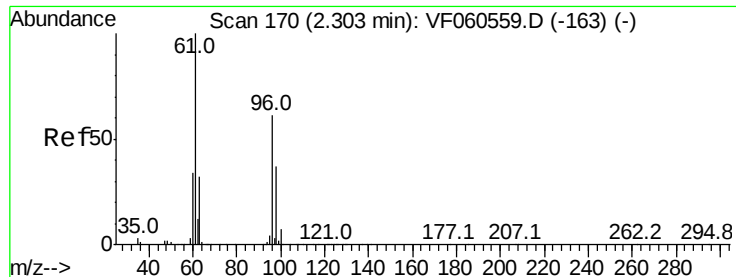


#20

Methylene Chloride  
 Concen: 18.370 ug/l  
 RT: 2.19 min Scan# 158  
 Delta R.T. -0.05 min  
 Lab File: VF060627.D  
 Acq: 7 Nov 2018 13:52

Tgt Ion: 84 Resp: 44297  
 Ion Ratio Lower Upper  
 84 100  
 49 143.3 109.9 164.9  
 51 48.0 35.8 53.8  
 86 63.3 48.3 72.5





#21

trans-1,2-Dichloroethene

Concen: 21.209 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

ClientSampleId :

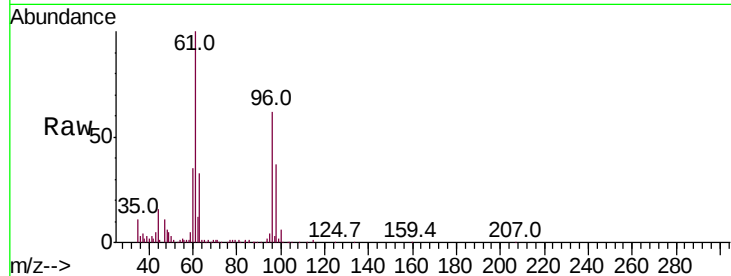
Tot Ion: 96 Resp: 46473

Ion Ratio Lower Upper

96 100

61 161.6 131.3 196.9

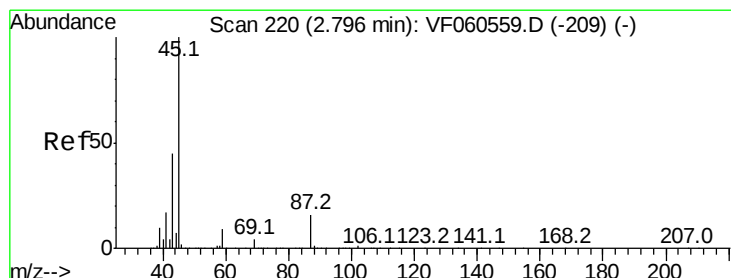
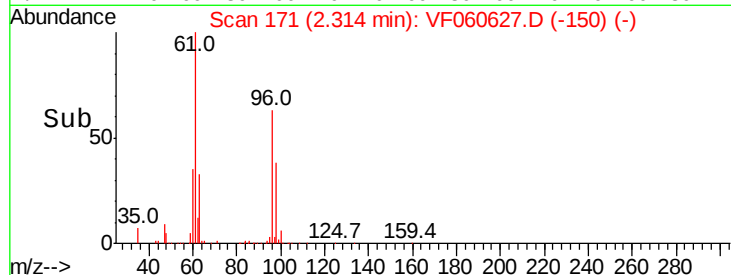
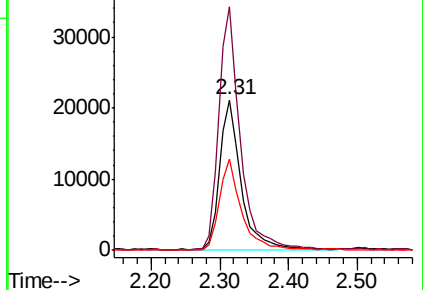
98 60.4 48.6 73.0



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: 21.377 ug/l

RT: 2.81 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Tgt Ion: 45 Resp: 154458

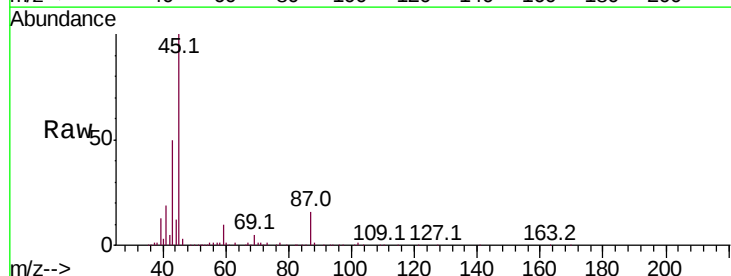
Ion Ratio Lower Upper

45 100

43 49.9 38.1 57.1

87 16.5 12.7 19.1

59 10.4 7.0 10.4

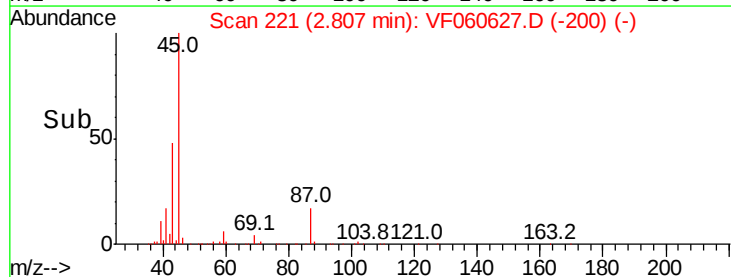
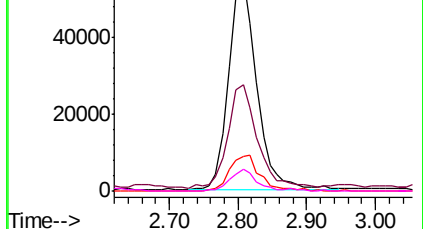


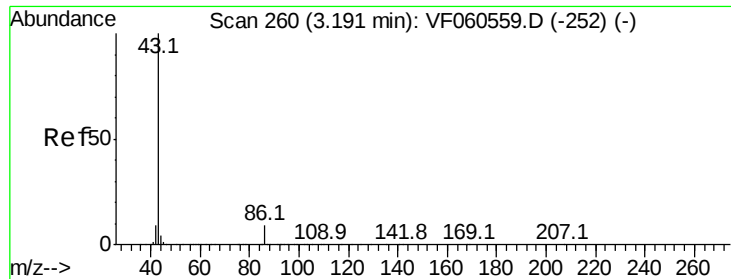
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 95.215 ug/l

RT: 3.19 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

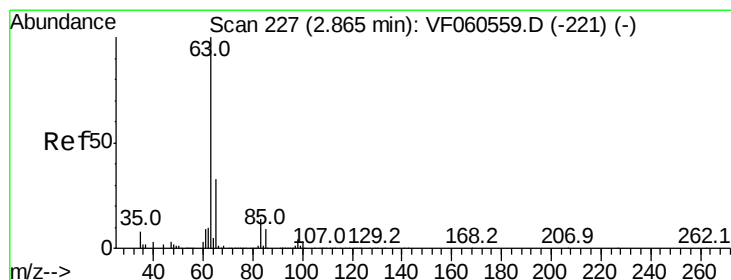
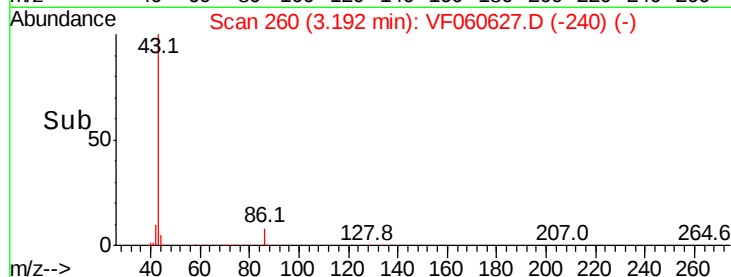
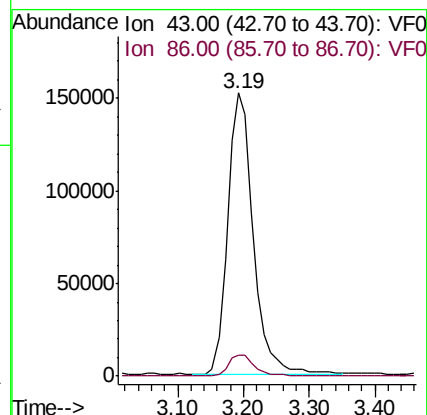
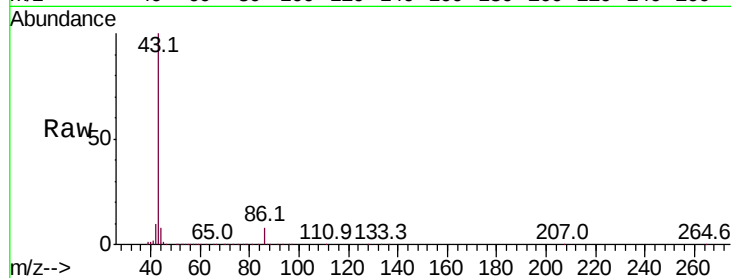
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 43 Resp: 413354

Ion Ratio Lower Upper

43 100

86 7.5 7.1 10.7



#24

1,1-Dichloroethane

Concen: 20.280 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

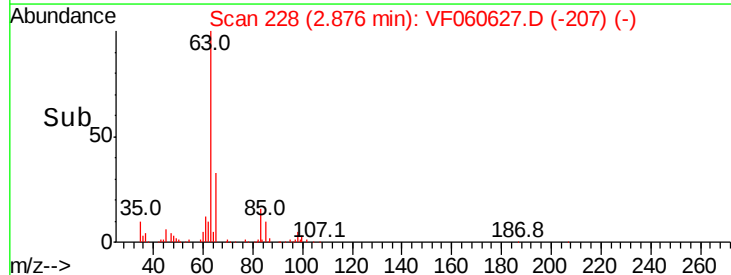
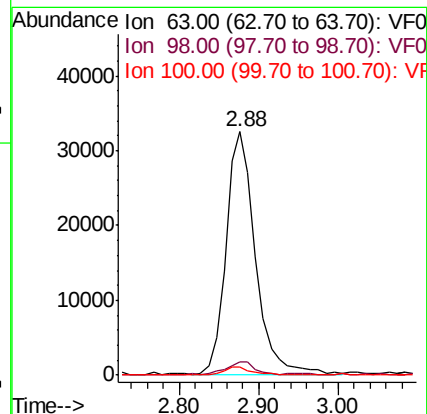
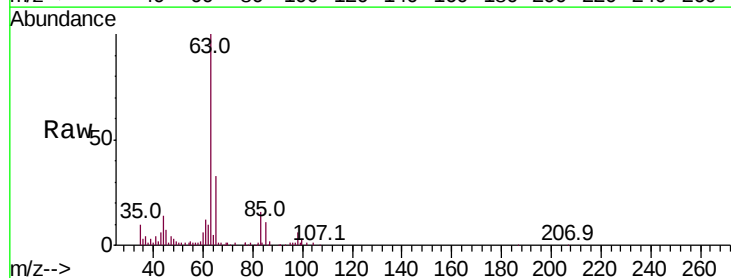
Tgt Ion: 63 Resp: 84802

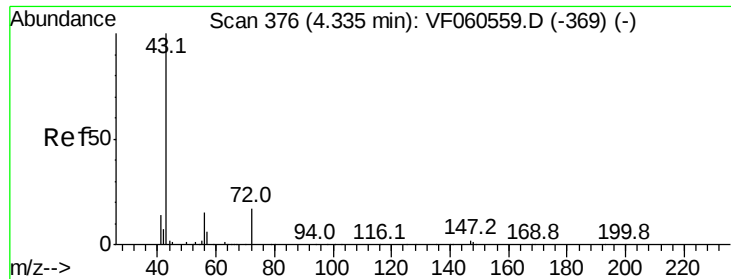
Ion Ratio Lower Upper

63 100

98 5.5 2.2 6.6

100 3.1 1.4 4.0





#25

2-Butanone

Concen: 95.881 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

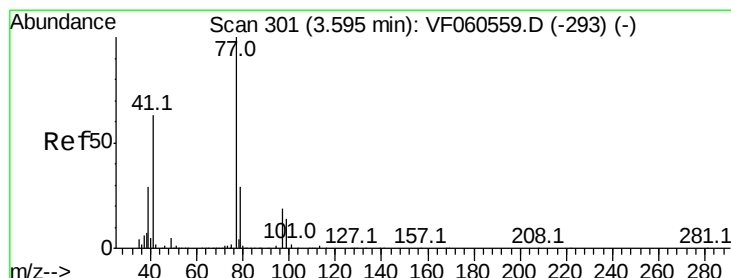
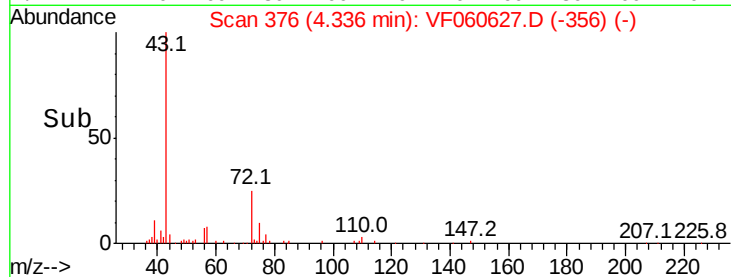
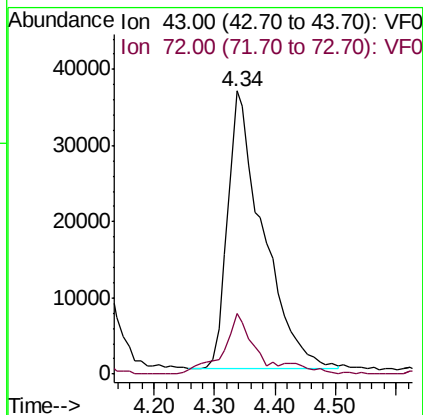
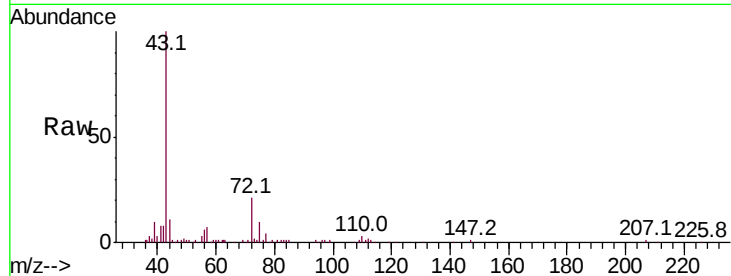
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 43 Resp: 148879

Ion Ratio Lower Upper

43 100

72 21.5 16.2 24.2



#26

2,2-Dichloropropane

Concen: 23.962 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.01 min

Lab File: VF060627.D

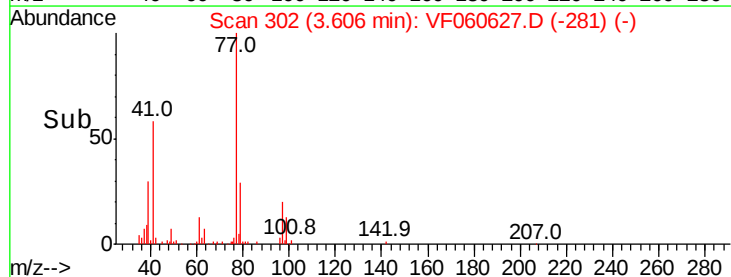
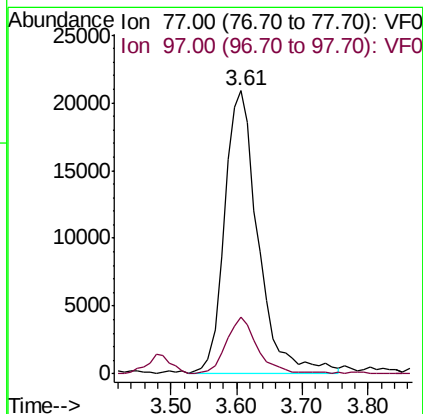
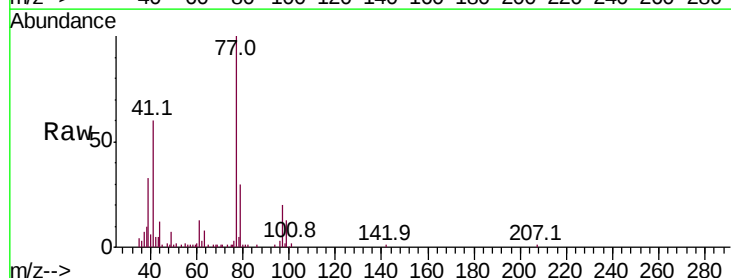
Acq: 7 Nov 2018 13:52

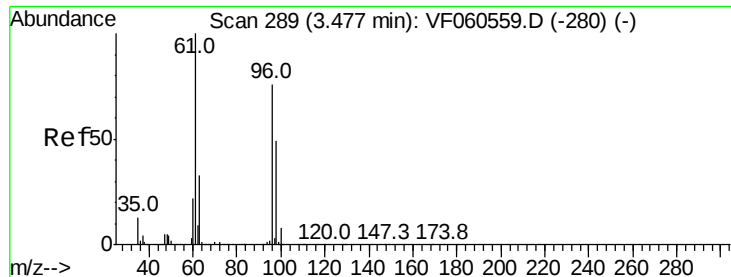
Tgt Ion: 77 Resp: 74975

Ion Ratio Lower Upper

77 100

97 20.2 9.8 29.3



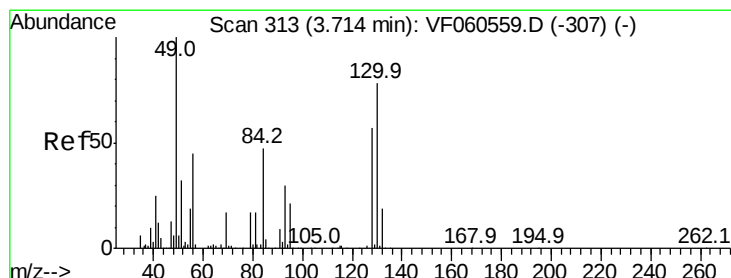
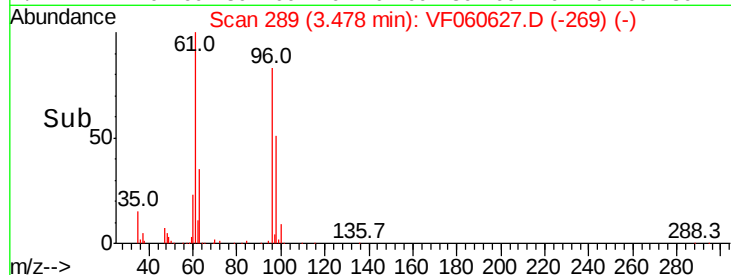
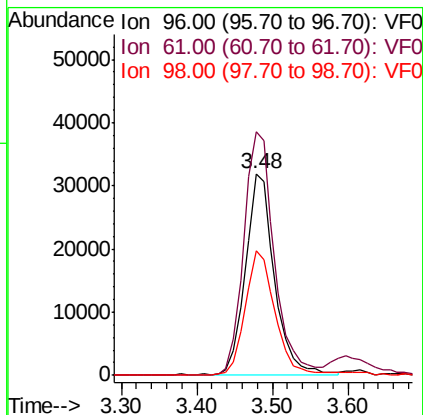
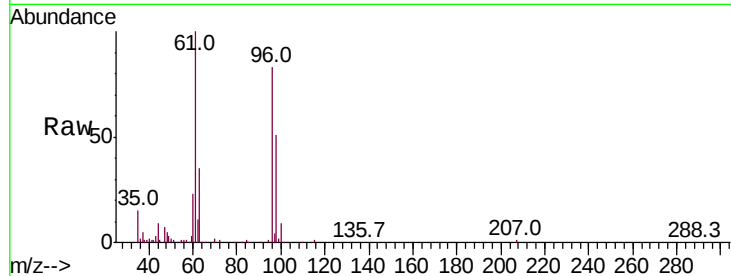


#27

cis-1,2-Dichloroethene  
Concen: 20.479 ug/l  
RT: 3.48 min Scan# 289  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Instrument :  
MSVOA\_F  
ClientSampleId :

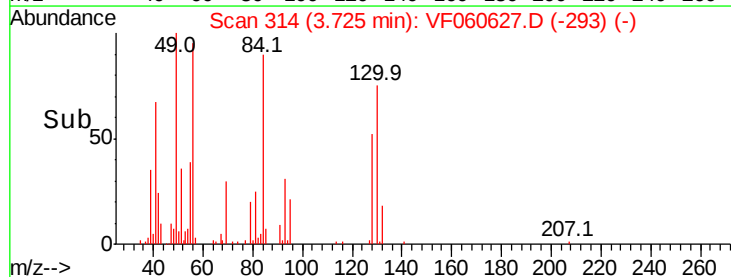
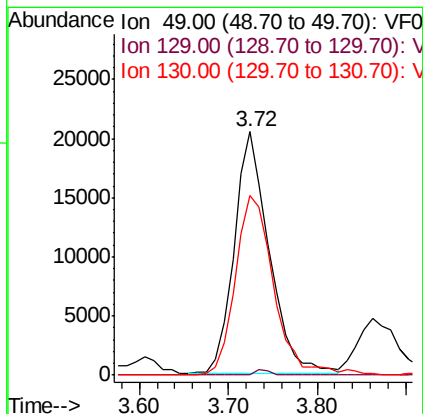
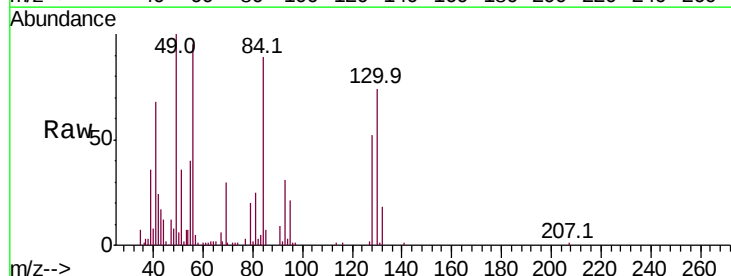
Tot Ion: 96 Resp: 85661  
Ion Ratio Lower Upper  
96 100  
61 120.5 0.0 263.0  
98 61.8 0.0 130.6

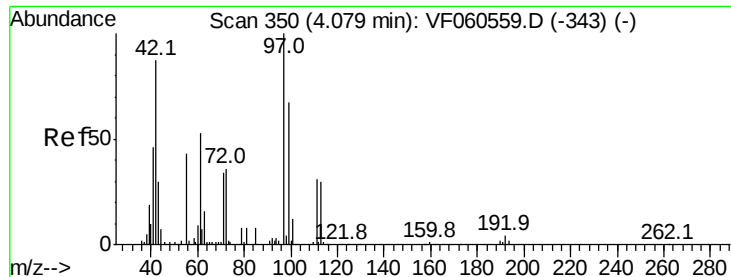


#28

Bromochloromethane  
Concen: 21.045 ug/l  
RT: 3.72 min Scan# 314  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 49 Resp: 55227  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 4.6  
130 74.0 61.8 92.8





#29

Tetrahydrofuran

Concen: 96.899 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :  
MSVOA\_F  
ClientSampleId :

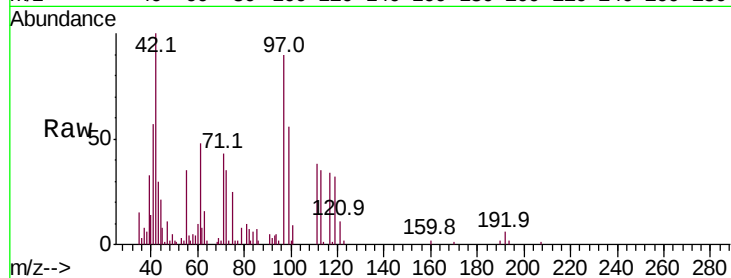
Tot Ion: 42 Resp: 52505

Ion Ratio Lower Upper

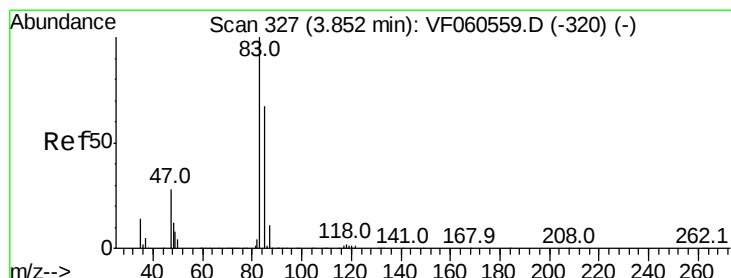
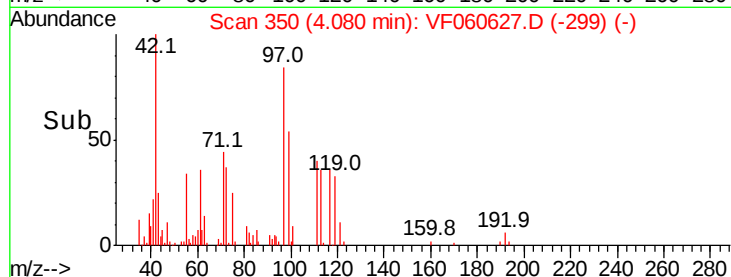
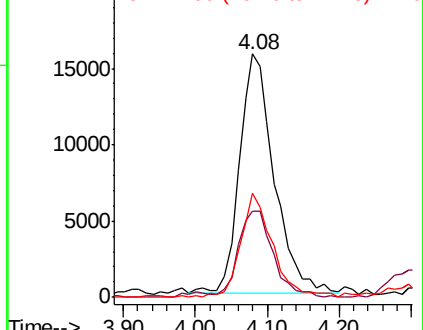
42 100

72 36.2 31.4 47.0

71 40.5 31.8 47.6



Abundance Ion 42.00 (41.70 to 42.70): VF0  
Ion 72.00 (71.70 to 72.70): VF0  
Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 21.444 ug/l

RT: 3.86 min Scan# 328

Delta R.T. 0.01 min

Lab File: VF060627.D

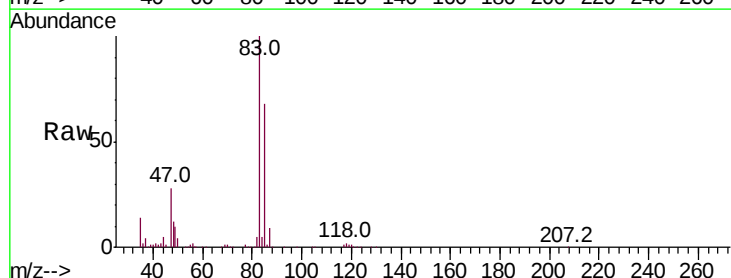
Acq: 7 Nov 2018 13:52

Tgt Ion: 83 Resp: 141867

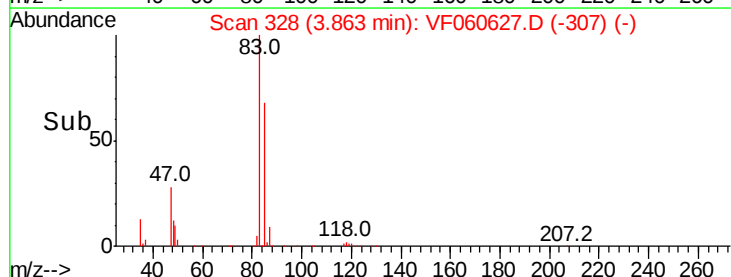
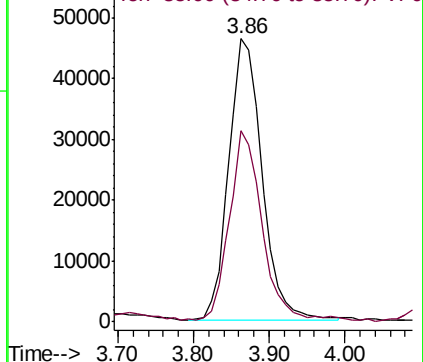
Ion Ratio Lower Upper

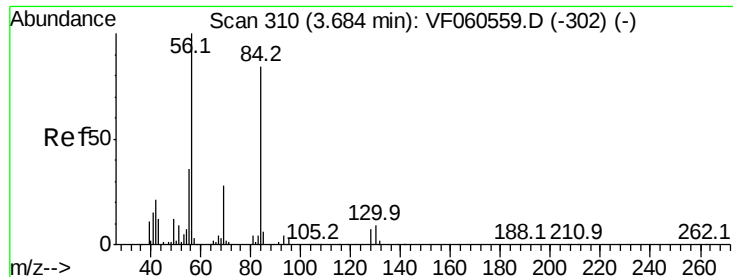
83 100

85 67.7 53.7 80.5



Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 85.00 (84.70 to 85.70): VF0

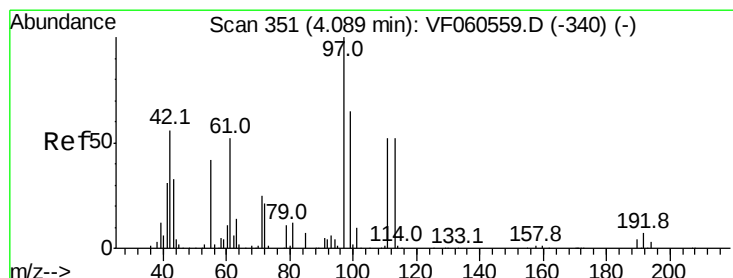
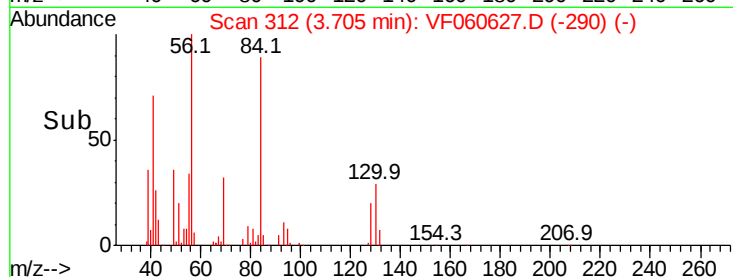
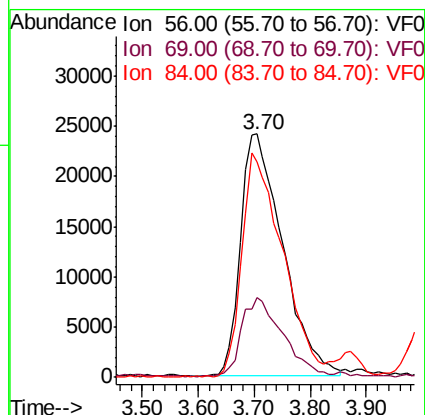
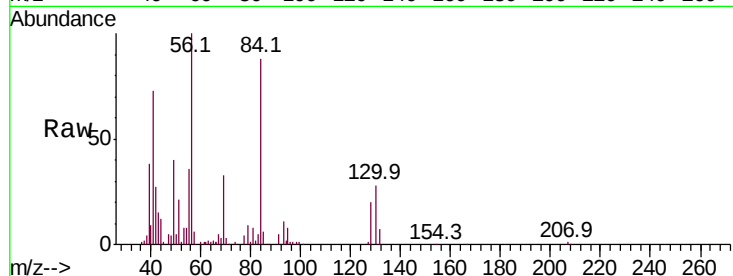




#31  
Cyclohexane  
Concen: 21.655 ug/l  
RT: 3.70 min Scan# 312  
Delta R.T. 0.02 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

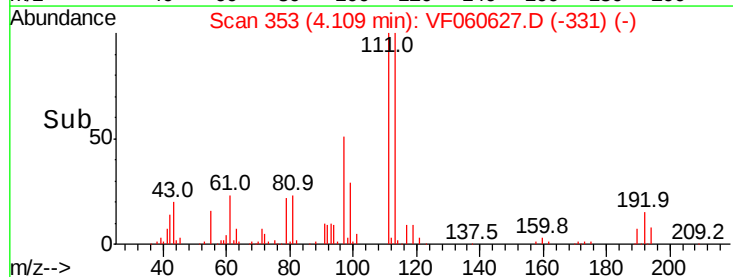
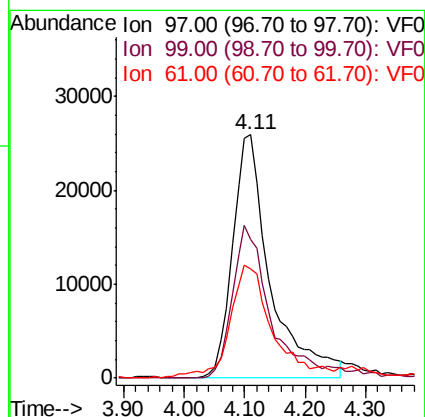
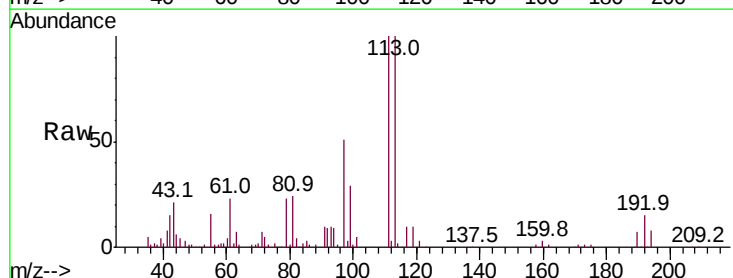
Instrument :  
MSVOA\_F  
ClientSampleId :

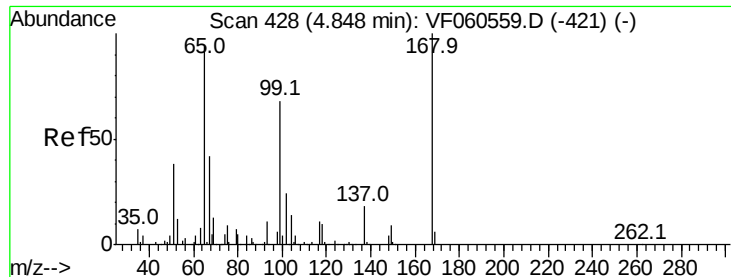
Tot Ion: 56 Resp: 124962  
Ion Ratio Lower Upper  
56 100  
69 32.9 23.0 34.4  
84 88.3 67.1 100.7



#32  
1,1,1-Trichloroethane  
Concen: 24.308 ug/l  
RT: 4.11 min Scan# 353  
Delta R.T. 0.02 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 97 Resp: 112316  
Ion Ratio Lower Upper  
97 100  
99 56.7 52.4 78.6  
61 45.0 41.5 62.3





#33

1,2-Dichloroethane-d4

Concen: 56.975 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

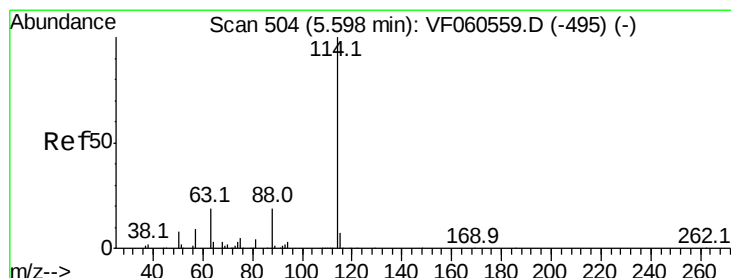
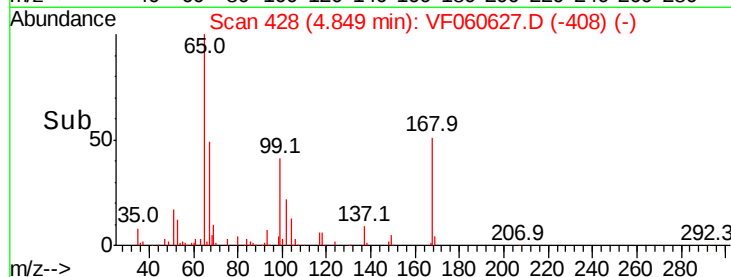
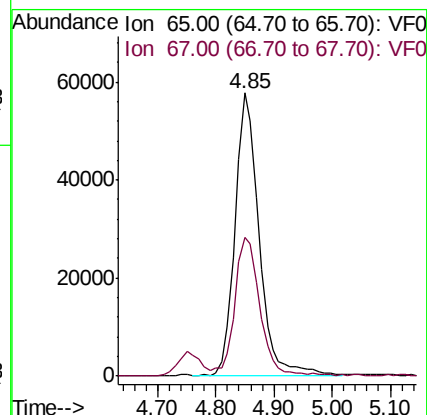
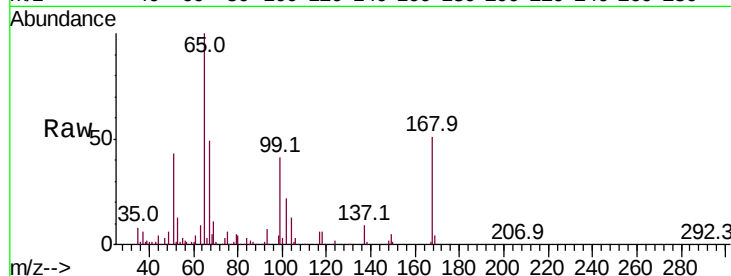
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 65 Resp: 165500

Ion Ratio Lower Upper

65 100

67 49.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

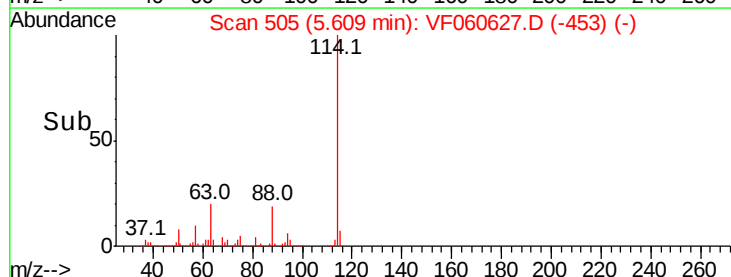
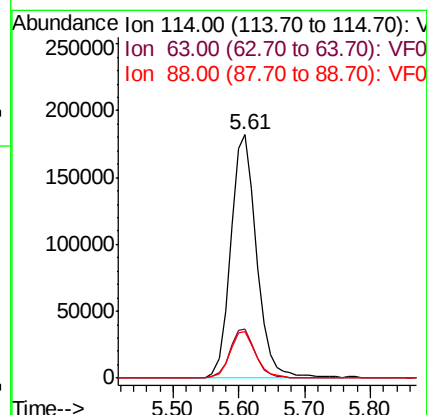
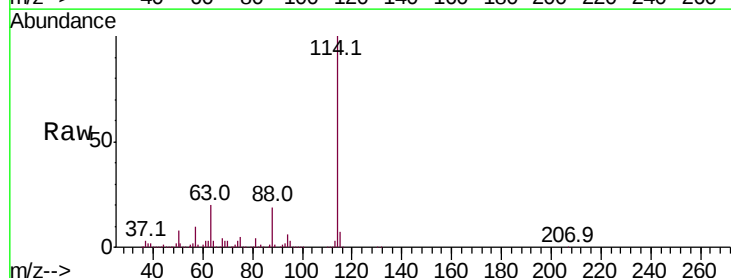
Tgt Ion: 114 Resp: 501632

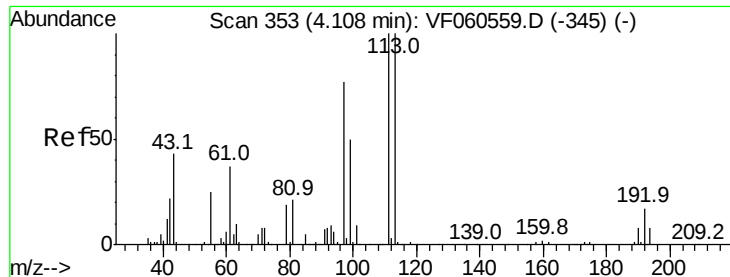
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

88 19.0 0.0 38.2





#35

Dibromofluoromethane

Concen: 50.306 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

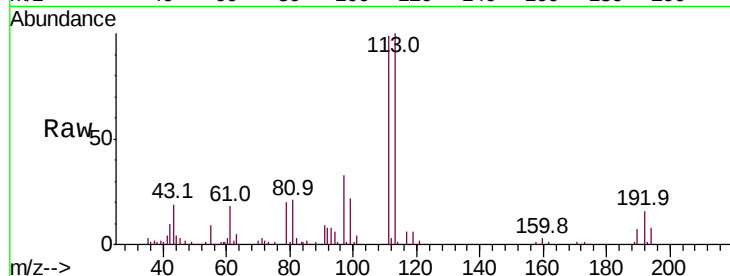
Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:113 Resp: 194967

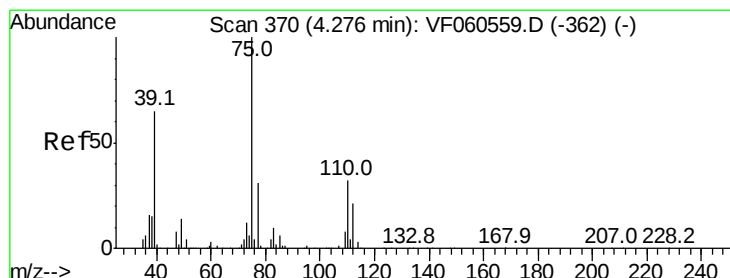
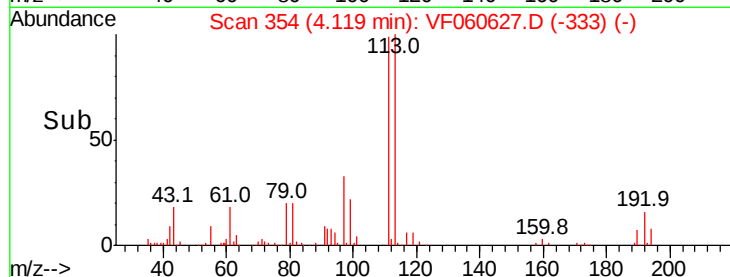
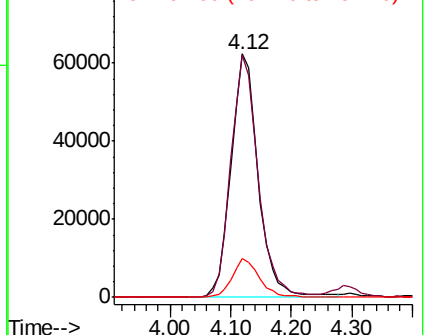
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 99.5  | 79.9  | 119.9 |
| 192 | 15.7  | 13.3  | 19.9  |



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 21.098 ug/l

RT: 4.29 min Scan# 371

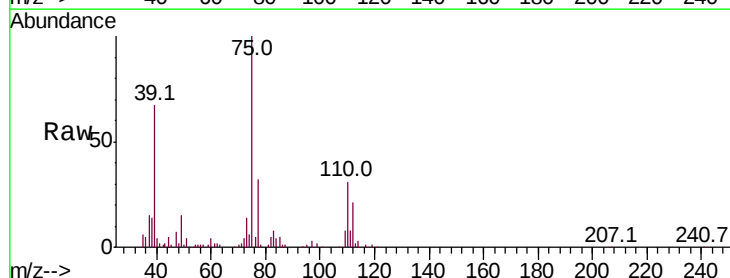
Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Tgt Ion: 75 Resp: 116528

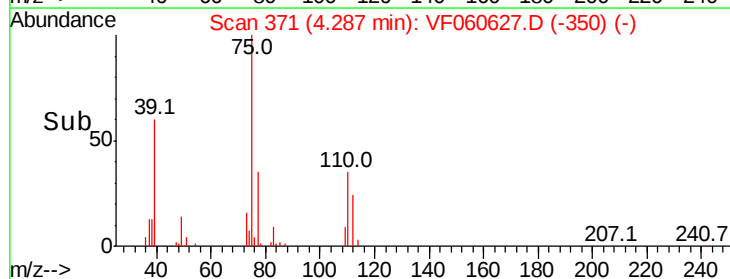
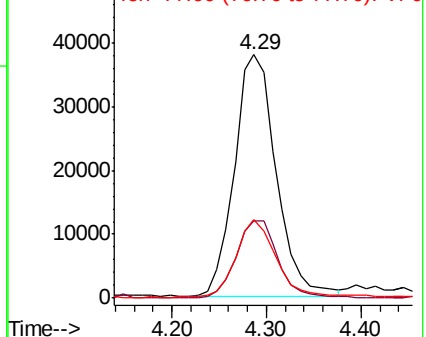
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 31.5  | 16.2  | 48.6  |
| 77  | 32.4  | 25.0  | 37.6  |

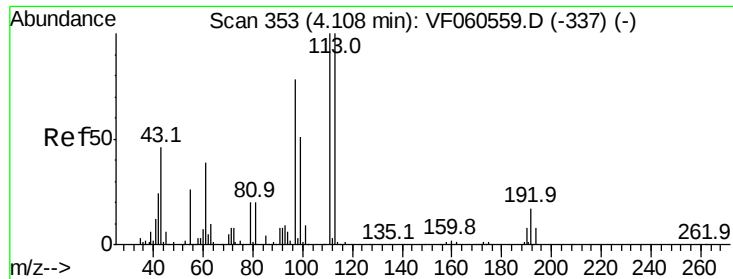


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

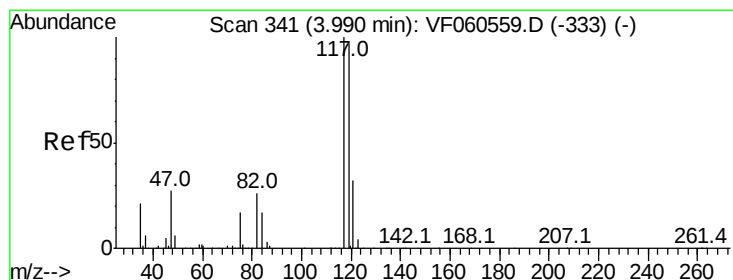
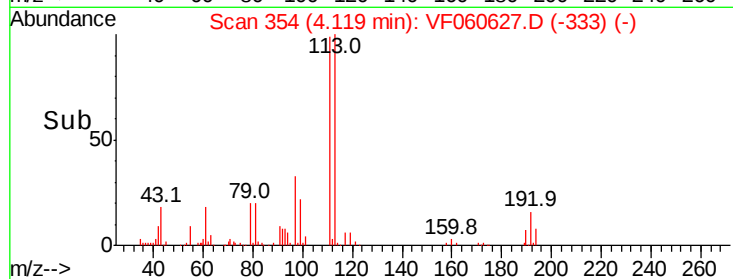
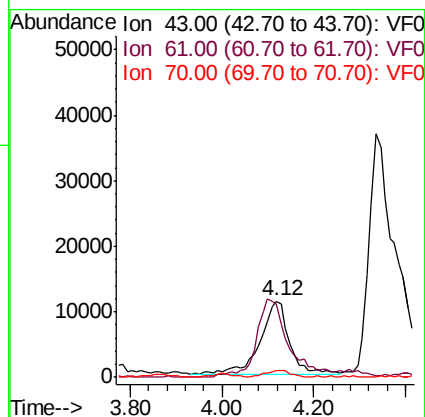
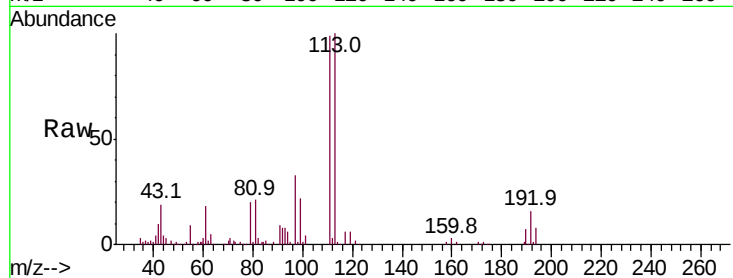




#37  
Ethyl Acetate  
Concen: 18.398 ug/l  
RT: 4.12 min Scan# 354  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

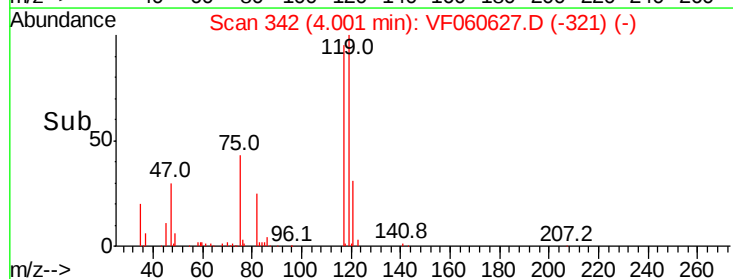
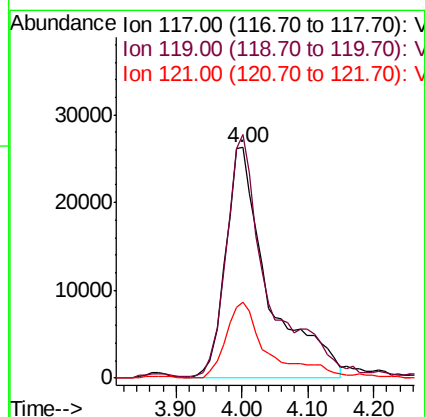
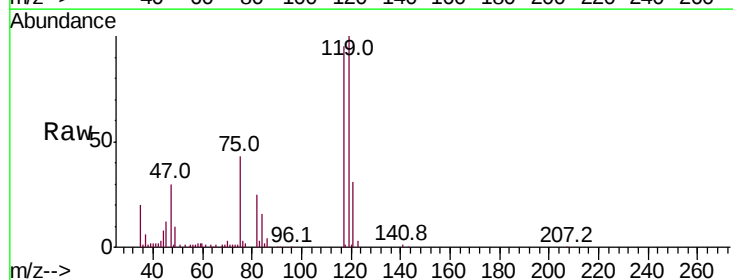
Instrument :  
MSVOA\_F  
ClientSampled :

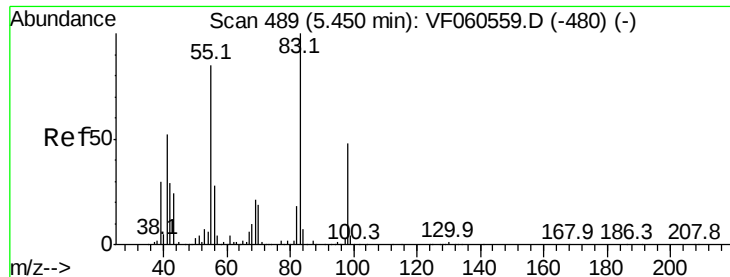
Tot Ion: 43 Resp: 48781  
Ion Ratio Lower Upper  
43 100  
61 95.5 63.4 95.2#  
70 8.9 9.3 13.9#



#38  
Carbon Tetrachloride  
Concen: 25.073 ug/l  
RT: 4.00 min Scan# 342  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 117 Resp: 118338  
Ion Ratio Lower Upper  
117 100  
119 105.7 77.8 116.6  
121 32.9 25.6 38.4

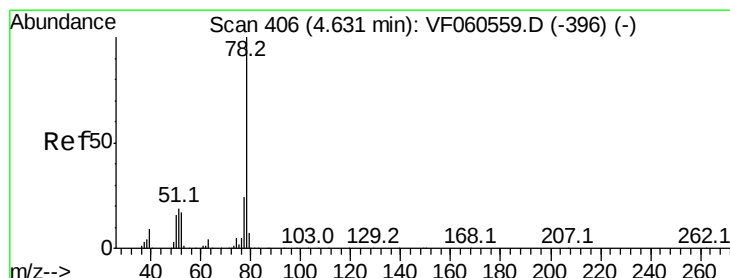
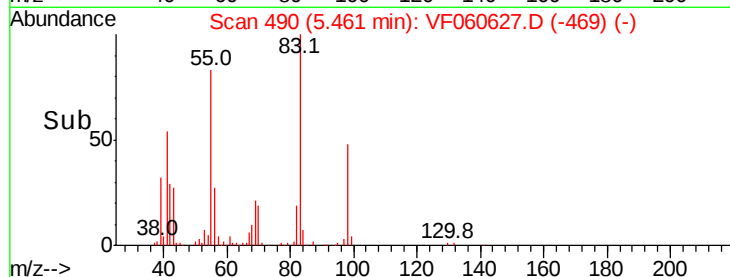
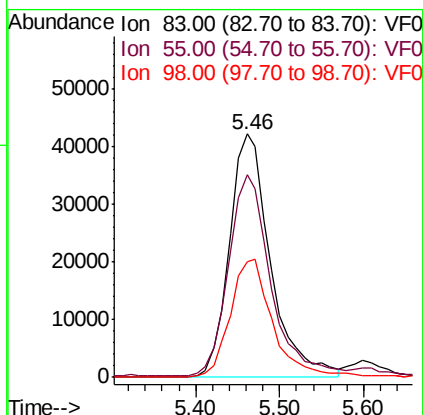
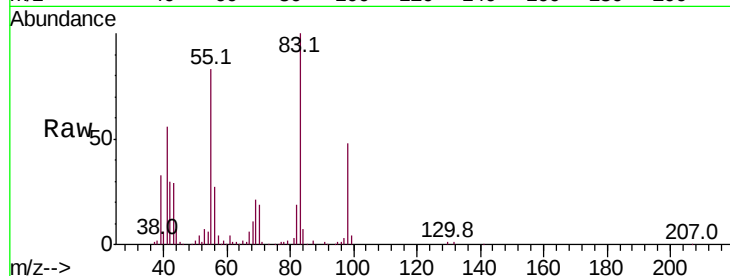




#39  
Methvlcvclohexane  
Concen: 21.445 ug/l  
RT: 5.46 min Scan# 490  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

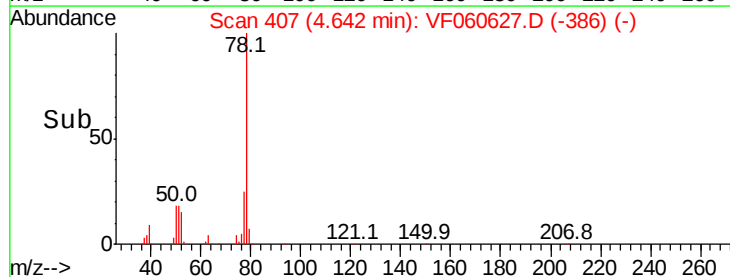
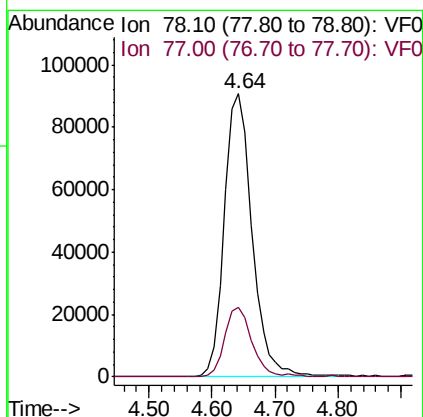
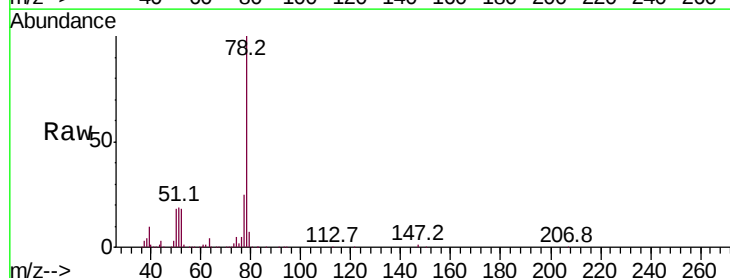
Instrument :  
MSVOA\_F  
ClientSampled :

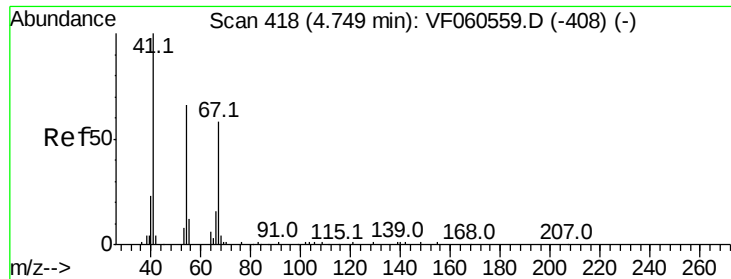
Tot Ion: 83 Resp: 144548  
Ion Ratio Lower Upper  
83 100  
55 83.4 69.1 103.7  
98 47.7 38.6 57.8



#40  
Benzene  
Concen: 20.780 ug/l  
RT: 4.64 min Scan# 407  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 78 Resp: 278593  
Ion Ratio Lower Upper  
78 100  
77 24.7 19.3 28.9

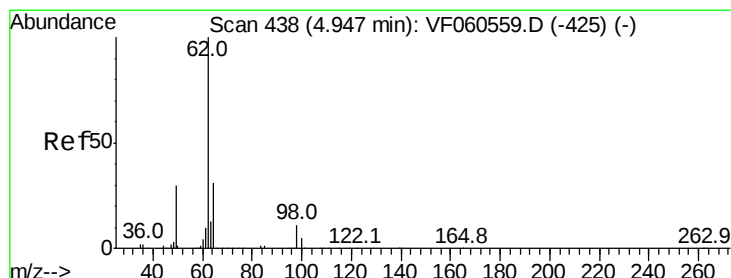
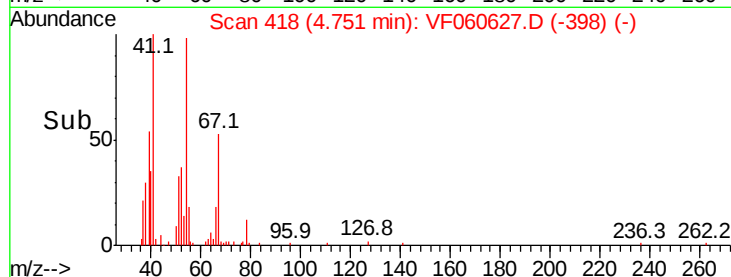
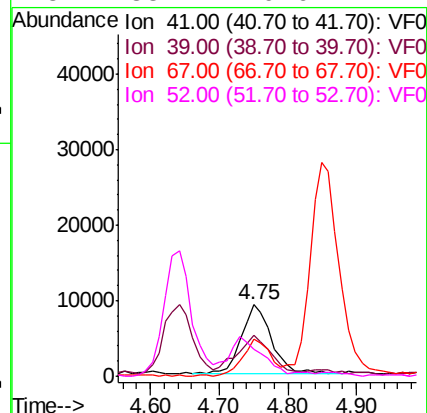
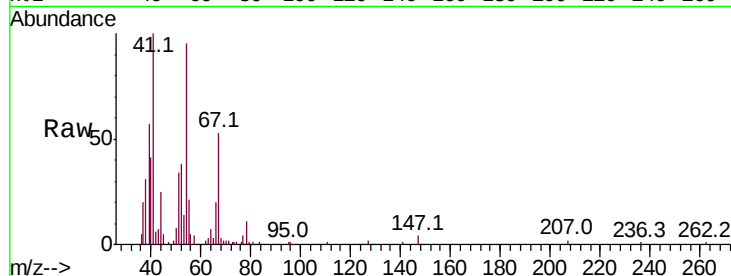




#41  
Methacrylonitrile  
Concen: 18.771 ug/l  
RT: 4.75 min Scan# 418  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

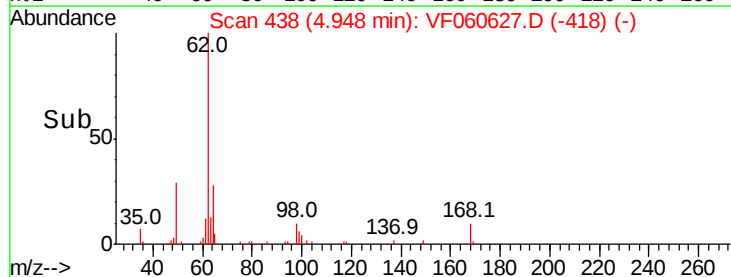
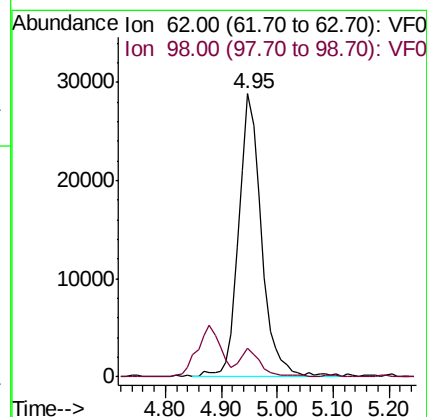
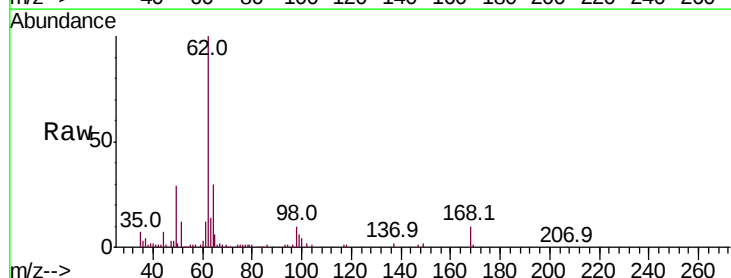
Instrument :  
MSVOA\_F  
ClientSampleId :

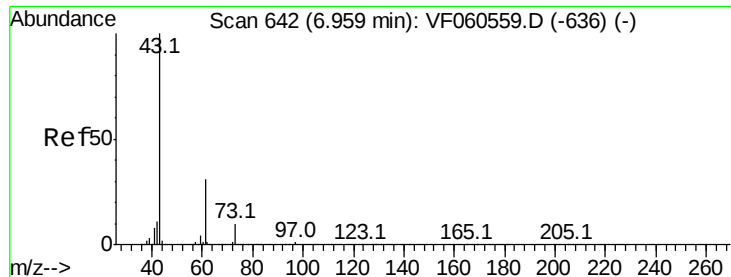
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 28185 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 56.9  | 45.6  | 68.4  |
| 67       | 52.9  | 45.3  | 67.9  |
| 52       | 38.1  | 29.6  | 44.4  |



#42  
1,2-Dichloroethane  
Concen: 21.337 ug/l  
RT: 4.95 min Scan# 438  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 82104 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 10.0  | 0.0   | 22.4  |



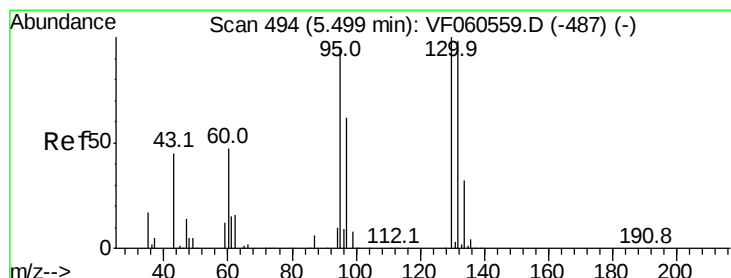
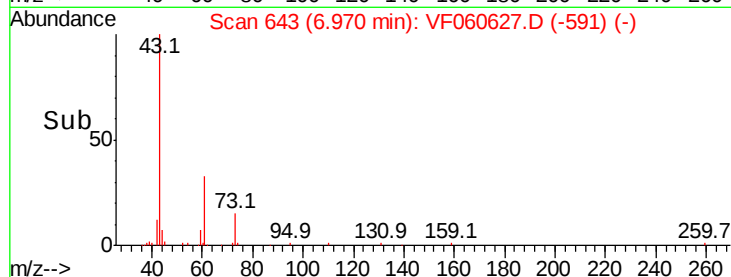
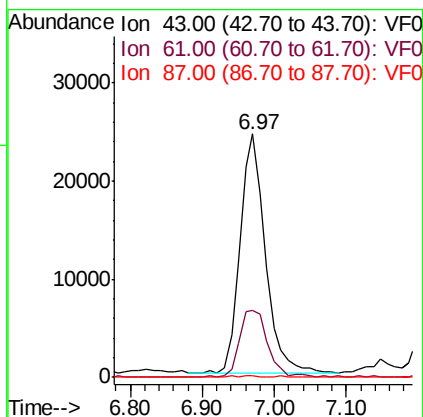
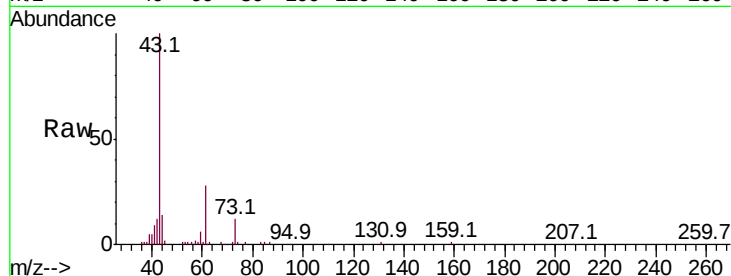


#43

Isopropyl Acetate  
 Concen: 17.938 ug/l  
 RT: 6.97 min Scan# 643  
 Delta R.T. 0.01 min  
 Lab File: VF060627.D  
 Acq: 7 Nov 2018 13:52

Instrument :  
 MSVOA\_F  
 ClientSampleId :

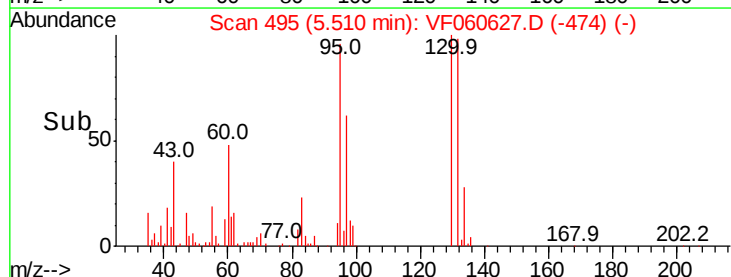
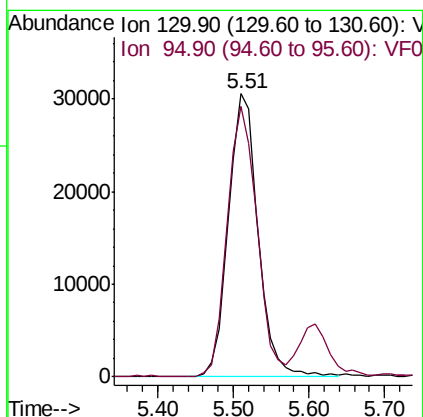
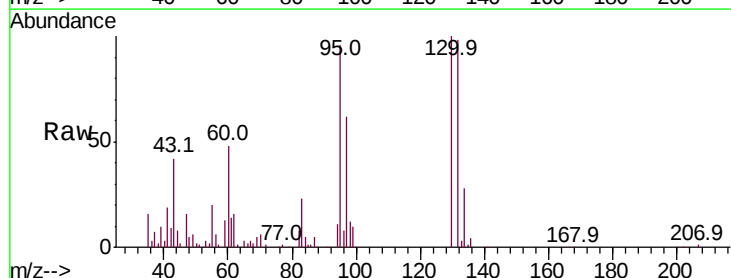
Tot Ion: 43 Resp: 60161  
 Ion Ratio Lower Upper  
 43 100  
 61 27.7 24.2 36.2  
 87 0.6 0.2 0.4#

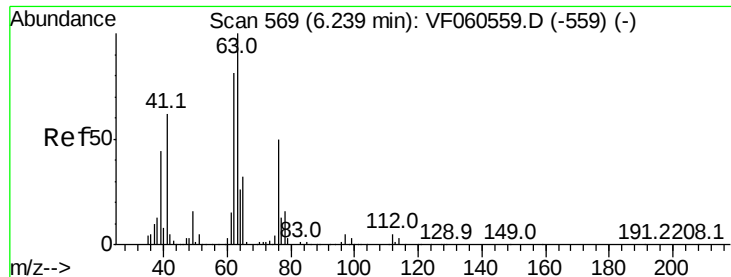


#44

Trichloroethene  
 Concen: 20.569 ug/l  
 RT: 5.51 min Scan# 495  
 Delta R.T. 0.01 min  
 Lab File: VF060627.D  
 Acq: 7 Nov 2018 13:52

Tgt Ion:130 Resp: 82879  
 Ion Ratio Lower Upper  
 130 100  
 95 95.8 0.0 191.0





#45

1,2-Dichloropropane

Concen: 21.456 ug/l

RT: 6.24 min Scan# 569

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

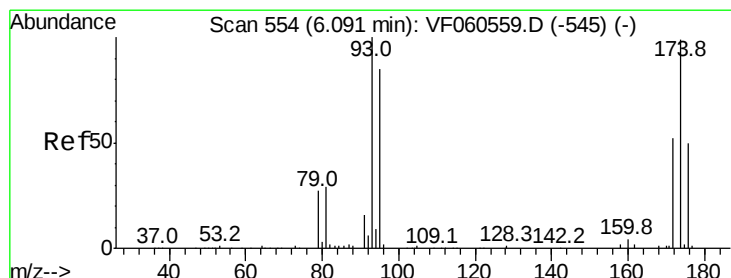
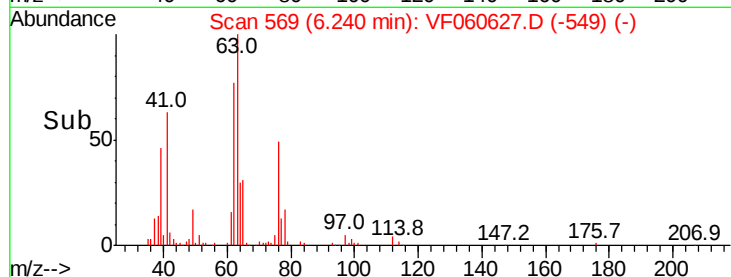
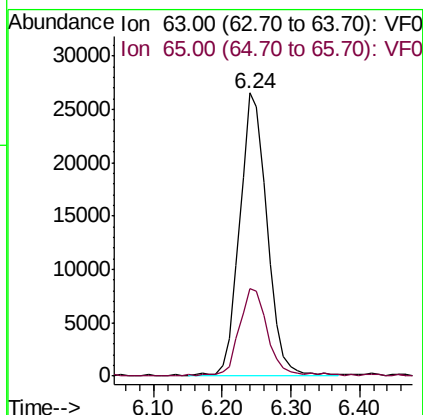
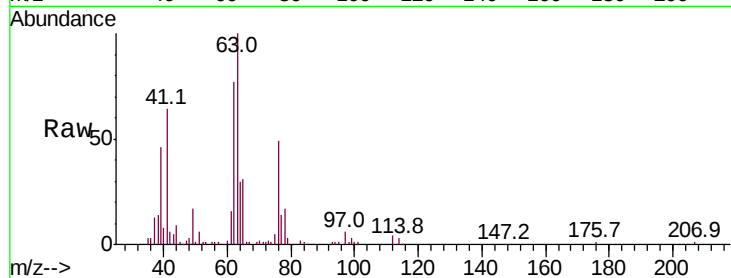
ClientSampleId :

Tot Ion: 63 Resp: 73571

Ion Ratio Lower Upper

63 100

65 31.1 25.4 38.0



#46

Dibromomethane

Concen: 19.433 ug/l

RT: 6.10 min Scan# 555

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

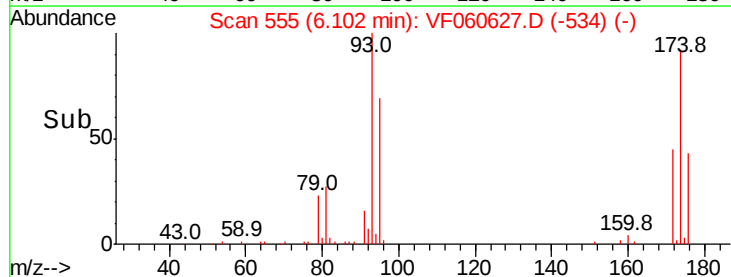
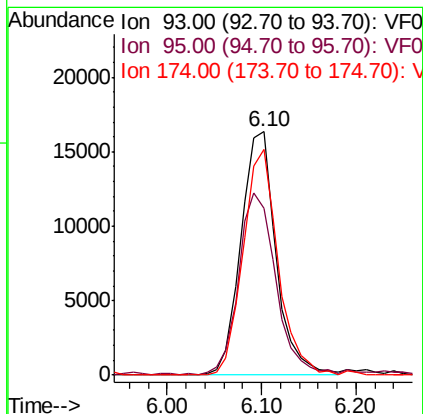
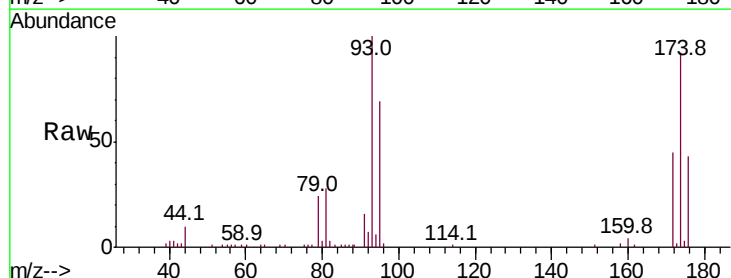
Tgt Ion: 93 Resp: 42273

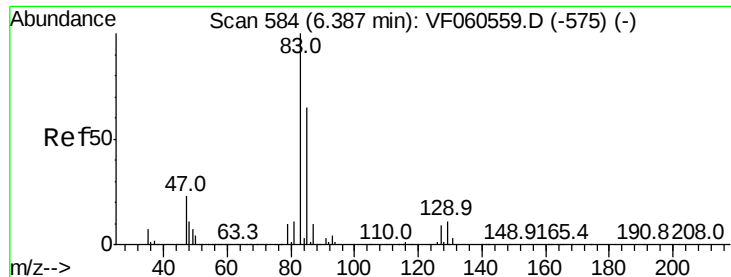
Ion Ratio Lower Upper

93 100

95 68.6 68.6 102.8

174 92.5 79.0 118.4





#47

Bromodichloromethane

Concen: 20.265 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :  
MSVOA\_F  
ClientSampled :

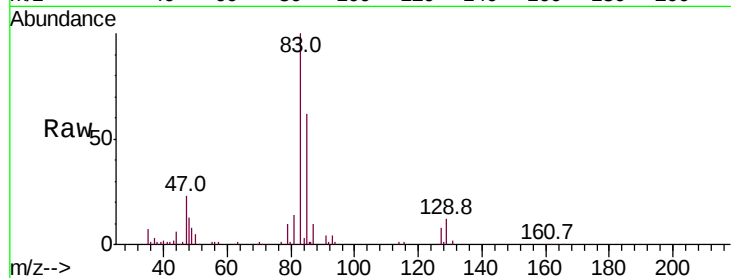
Tot Ion: 83 Resp: 106328

Ion Ratio Lower Upper

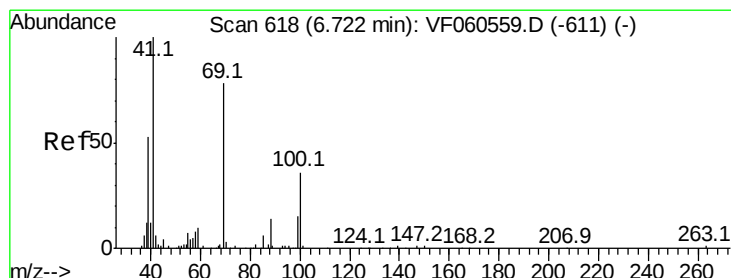
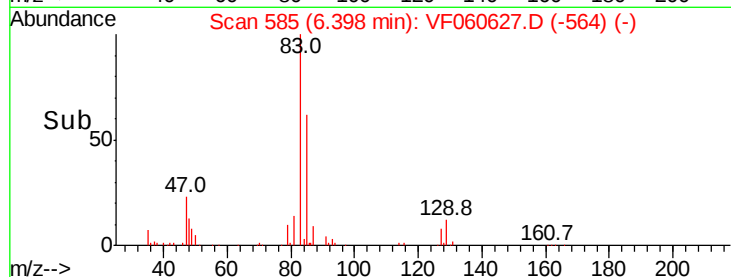
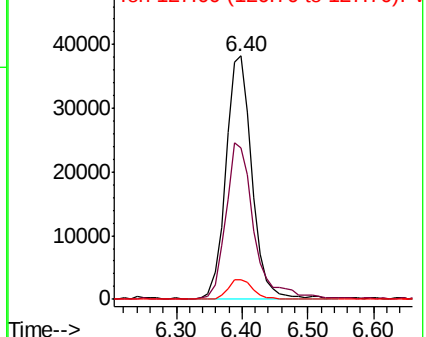
83 100

85 62.2 51.8 77.6

127 8.3 7.0 10.4



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: 17.559 ug/l

RT: 6.72 min Scan# 618

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

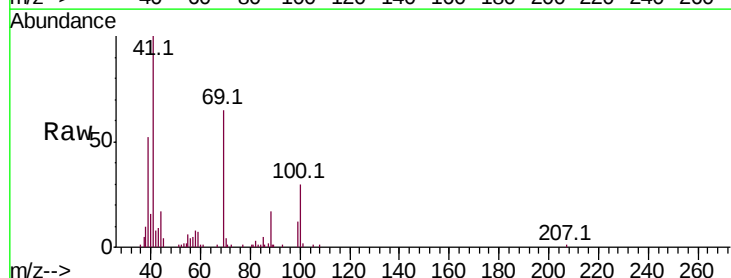
Tgt Ion: 41 Resp: 37012

Ion Ratio Lower Upper

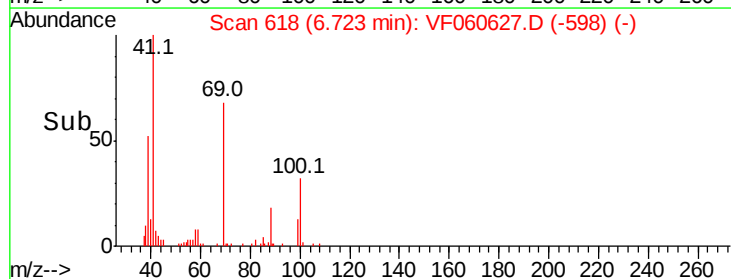
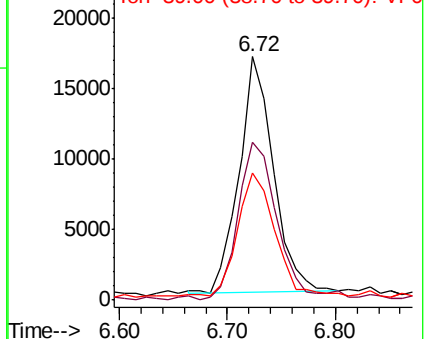
41 100

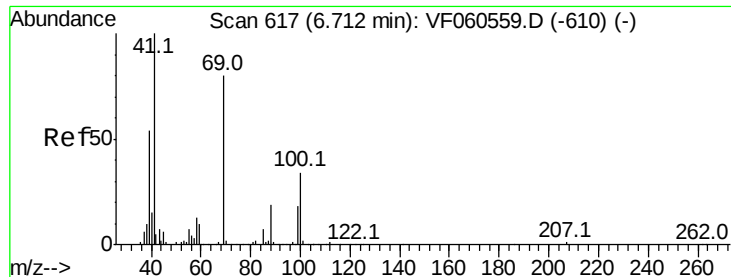
69 64.9 61.1 91.7

39 52.3 43.0 64.6



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

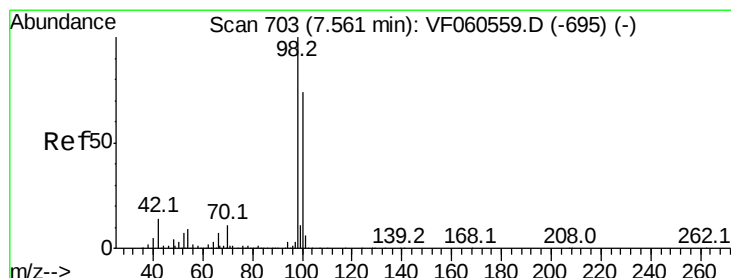
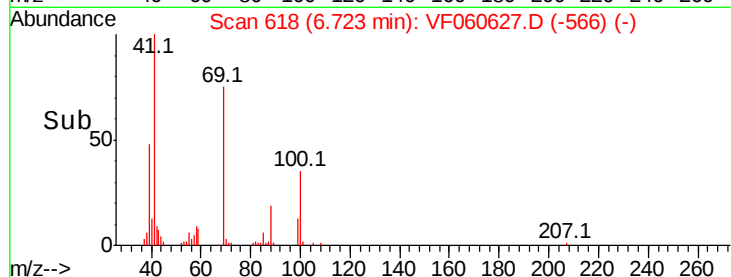
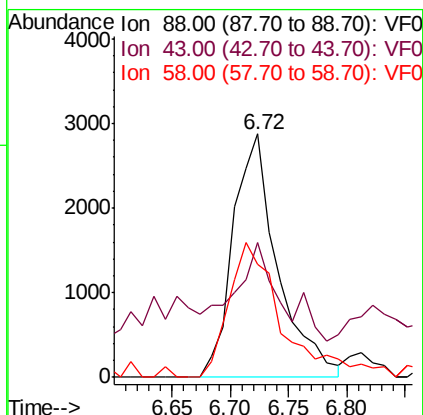
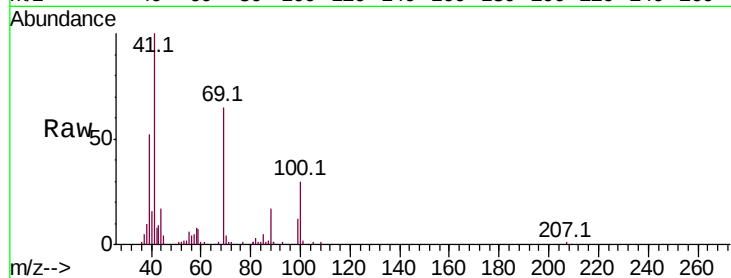




#49  
1,4-Dioxane  
Concen: 346.126 ug/l  
RT: 6.72 min Scan# 618  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

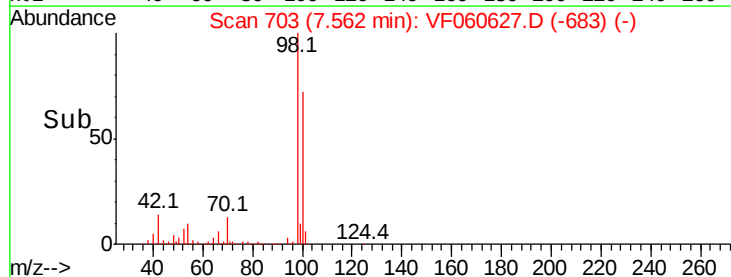
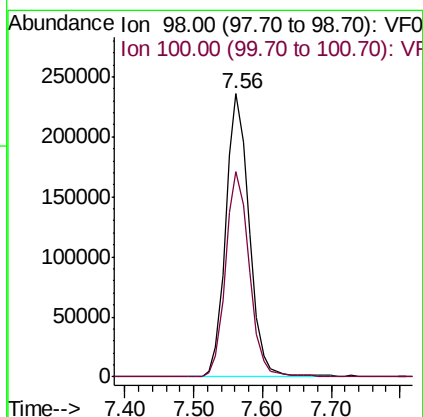
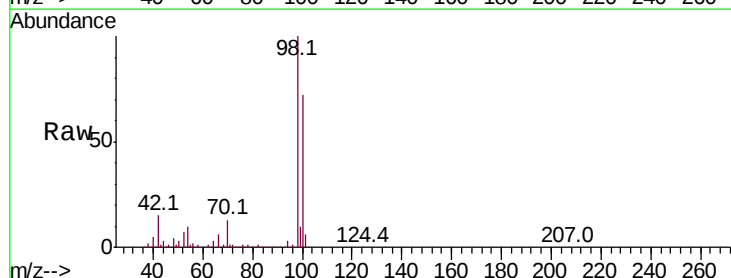
Instrument :  
MSVOA\_F  
ClientSampleId :

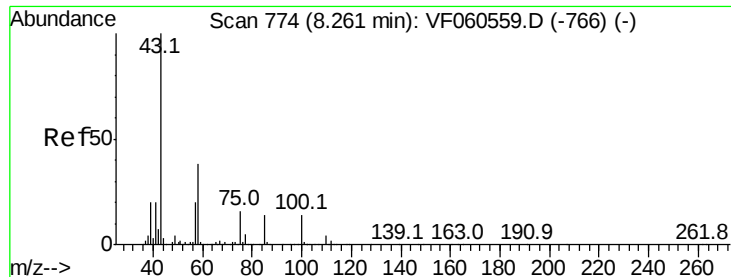
Tot Ion: 88 Resp: 7632  
Ion Ratio Lower Upper  
88 100  
43 55.4 61.2 91.8#  
58 46.4 56.9 85.3#



#50  
Toluene-d8  
Concen: 48.677 ug/l  
RT: 7.56 min Scan# 703  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 98 Resp: 558850  
Ion Ratio Lower Upper  
98 100  
100 72.4 59.4 89.2





#51

4-Methyl-2-Pentanone

Concen: 95.707 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

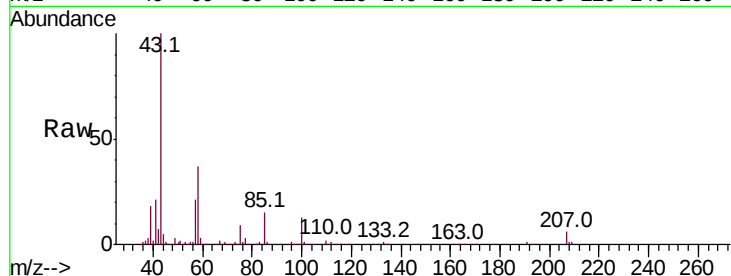
ClientSampleId :

Tot Ion: 43 Resp: 215848

Ion Ratio Lower Upper

43 100

58 37.5 30.1 45.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

100000

80000

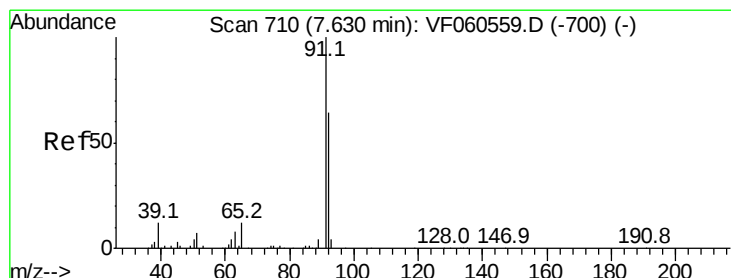
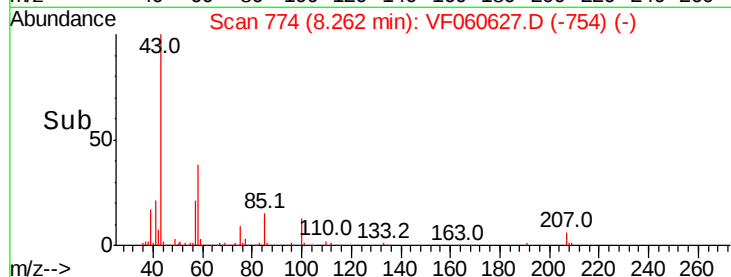
60000

40000

20000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 18.338 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060627.D

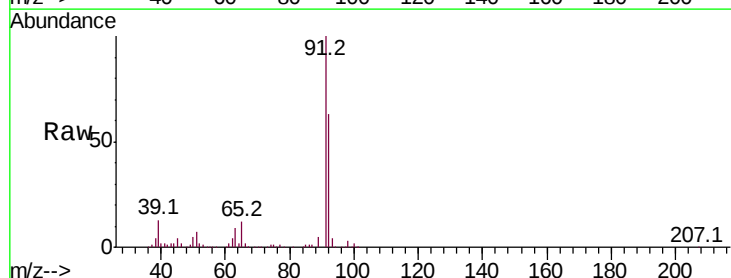
Acq: 7 Nov 2018 13:52

Tgt Ion: 92 Resp: 160156

Ion Ratio Lower Upper

92 100

91 158.0 124.5 186.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.63

120000

100000

80000

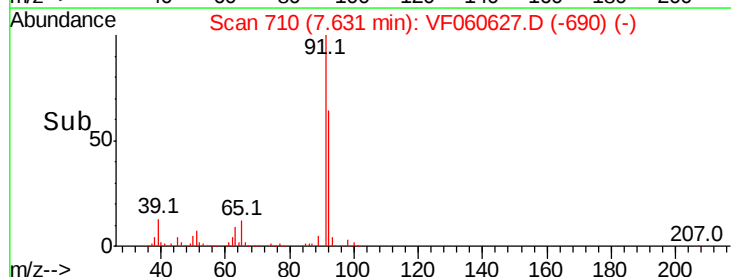
60000

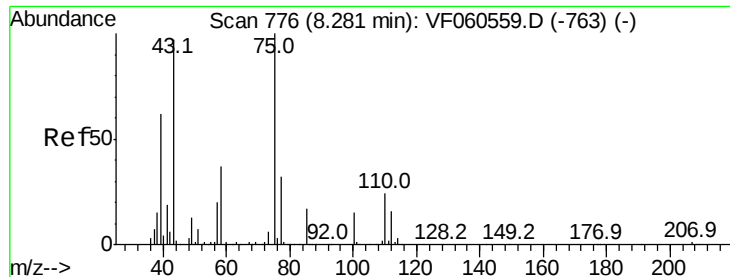
40000

20000

0

Time--> 7.50 7.60 7.70 7.80





#53

t-1,3-Dichloropropene

Concen: 19.548 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

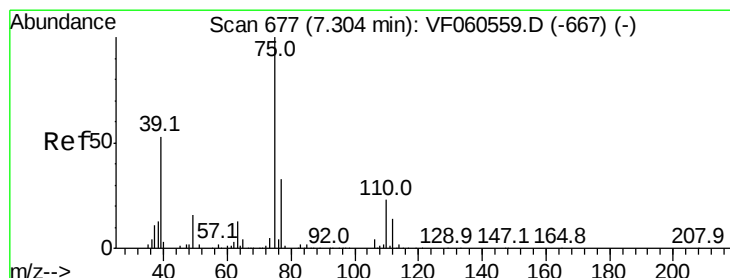
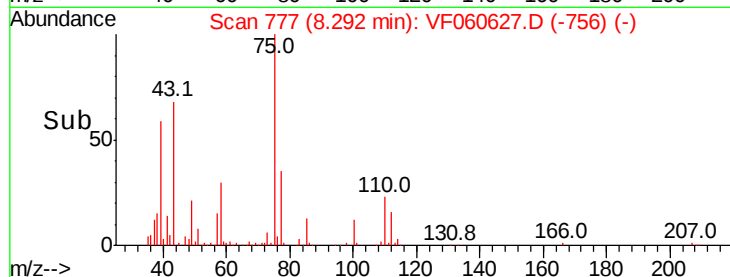
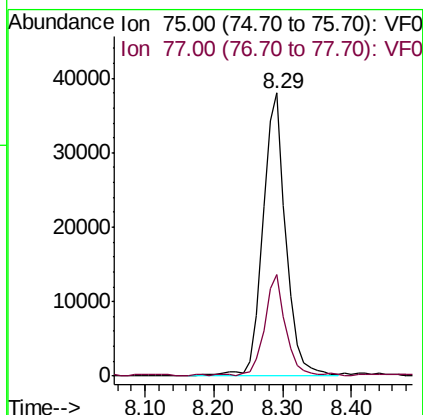
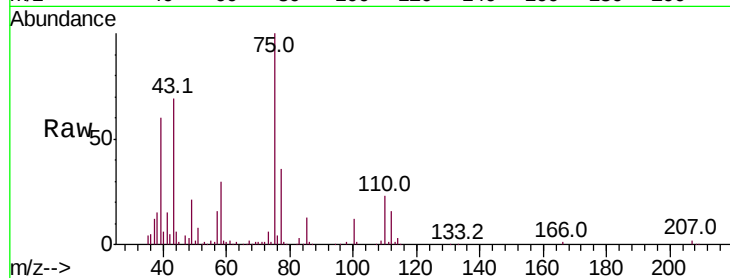
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 75 Resp: 89144

Ion Ratio Lower Upper

75 100

77 35.8 25.7 38.5



#54

cis-1,3-Dichloropropene

Concen: 20.751 ug/l

RT: 7.32 min Scan# 678

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

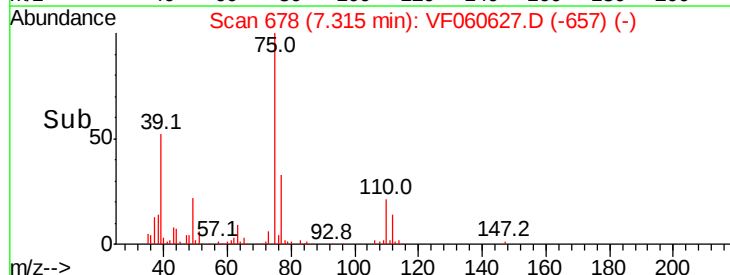
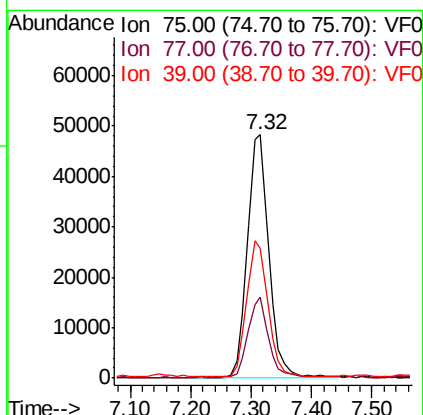
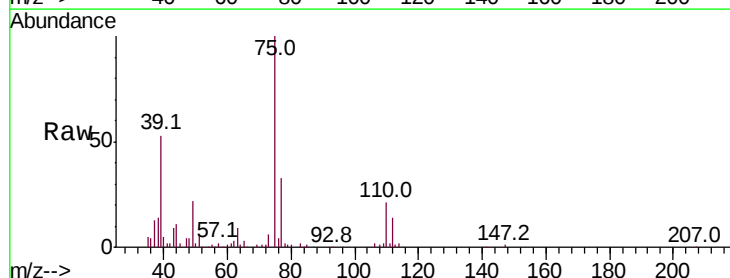
Tgt Ion: 75 Resp: 119563

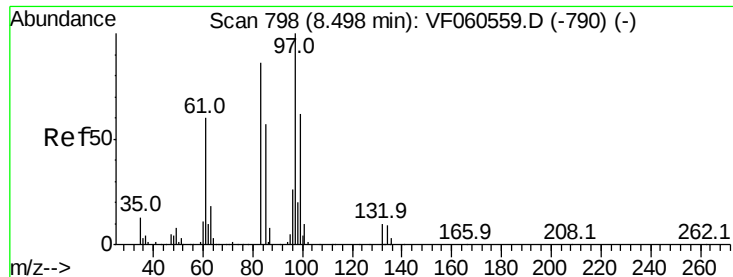
Ion Ratio Lower Upper

75 100

77 33.4 26.7 40.1

39 53.2 43.0 64.4





#55

1,1,2-Trichloroethane

Concen: 19.678 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion: 97 Resp: 50009

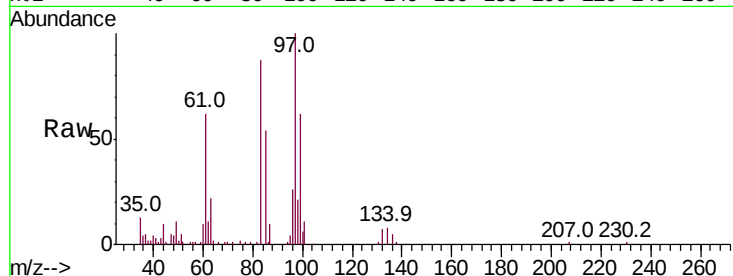
Ion Ratio Lower Upper

97 100

83 87.4 69.4 104.0

85 54.0 46.6 69.8

99 61.9 50.0 75.0

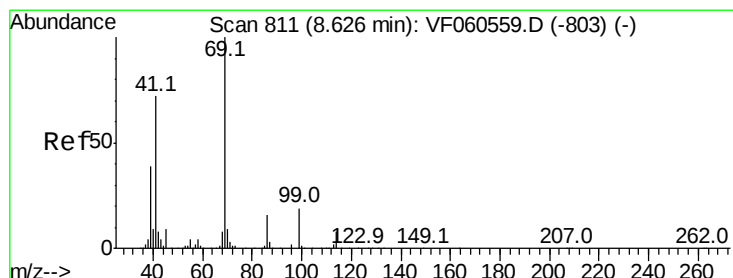
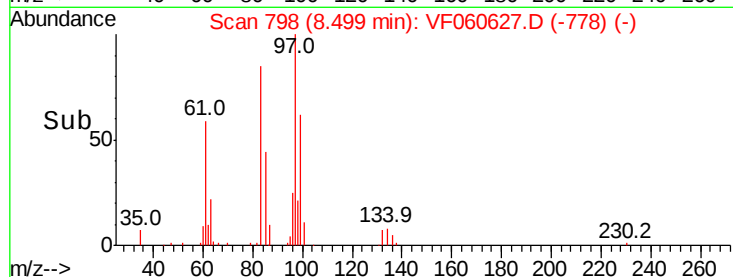
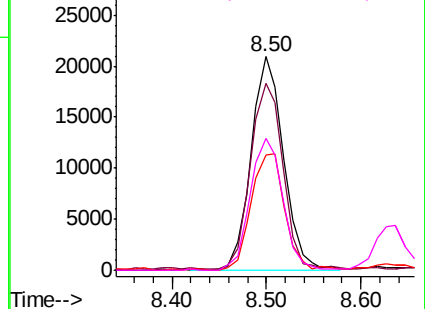


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 18.503 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

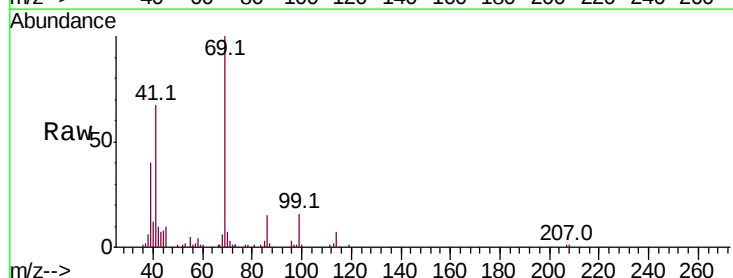
Tgt Ion: 69 Resp: 60501

Ion Ratio Lower Upper

69 100

41 67.0 59.2 88.8

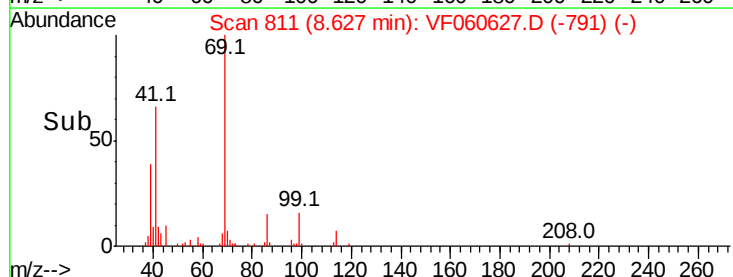
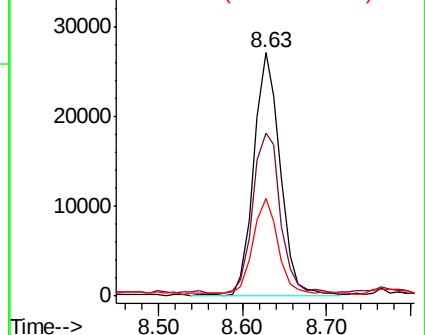
39 40.2 32.3 48.5

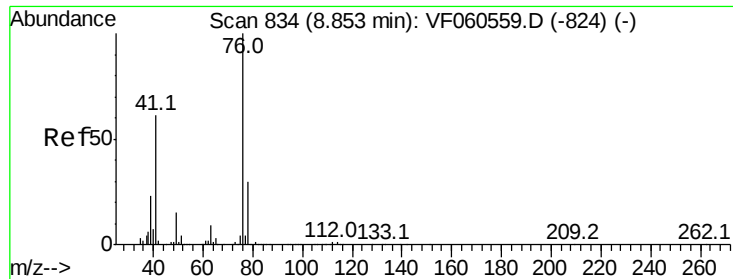


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 20.368 ug/l

RT: 8.86 min Scan# 835

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

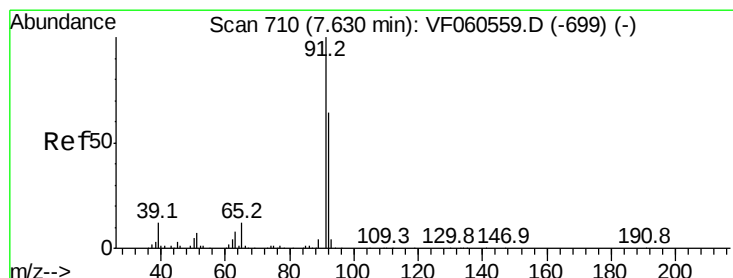
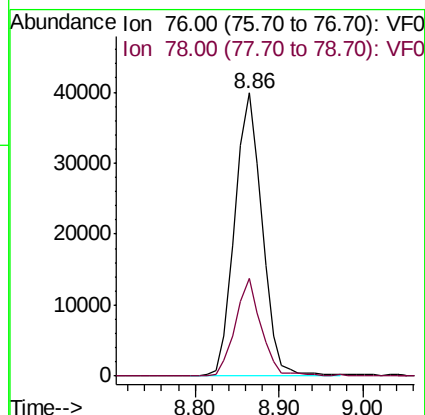
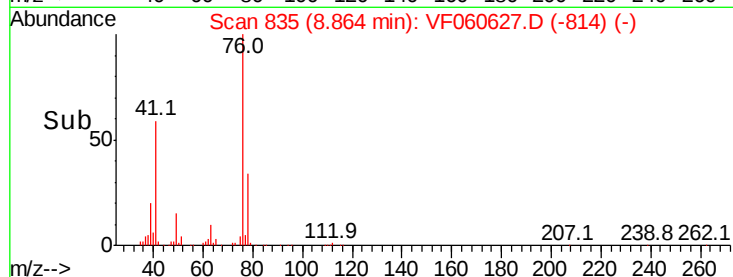
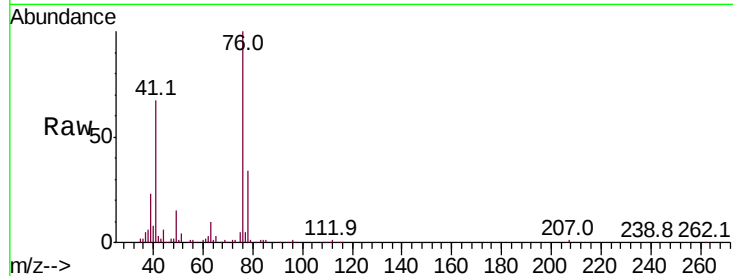
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 76 Resp: 90825

Ion Ratio Lower Upper

76 100

78 34.4 24.2 36.4



#58

2-Chloroethyl Vinyl ether

Concen: 90.737 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060627.D

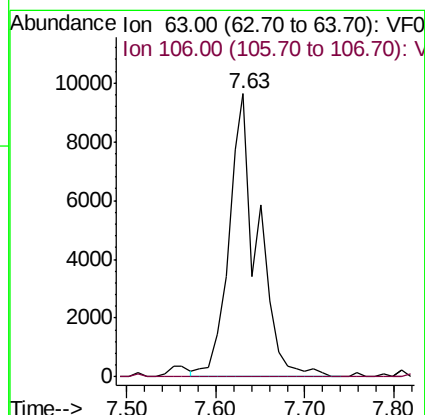
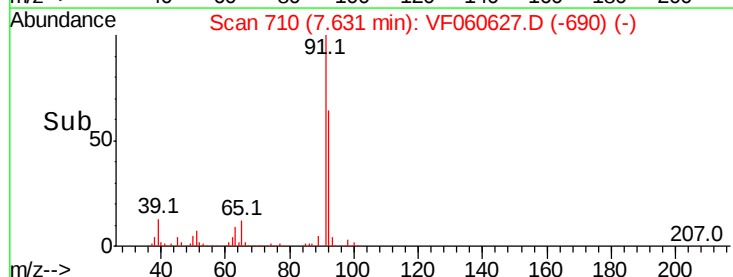
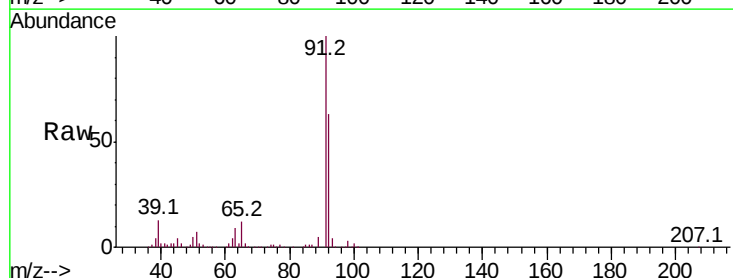
Acq: 7 Nov 2018 13:52

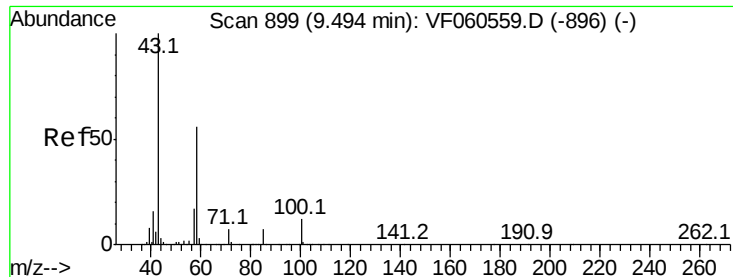
Tgt Ion: 63 Resp: 21758

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

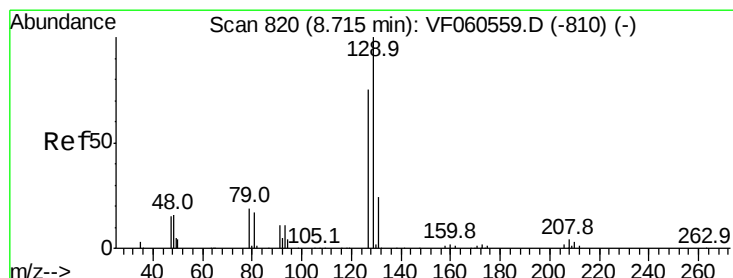
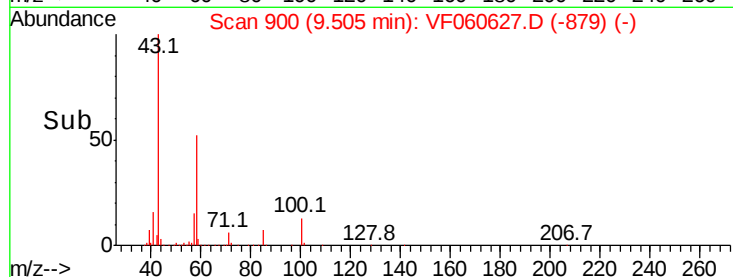
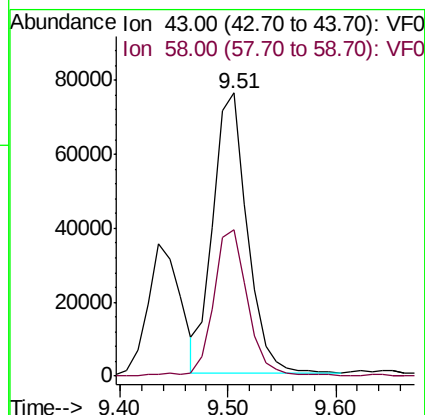
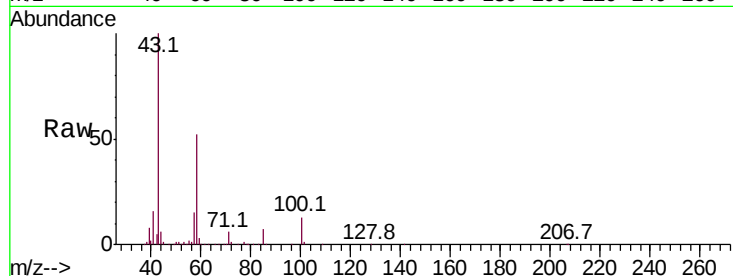




#59  
2-Hexanone  
Concen: 95.949 ug/l  
RT: 9.51 min Scan# 900  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

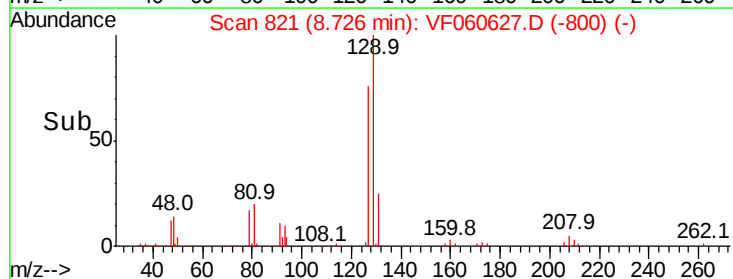
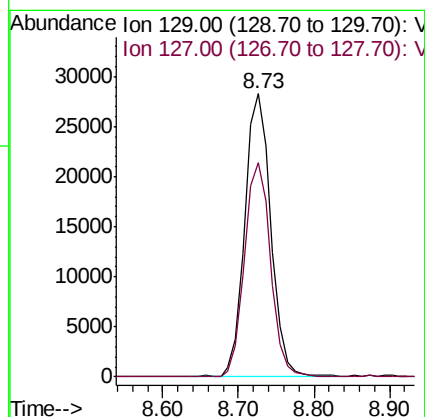
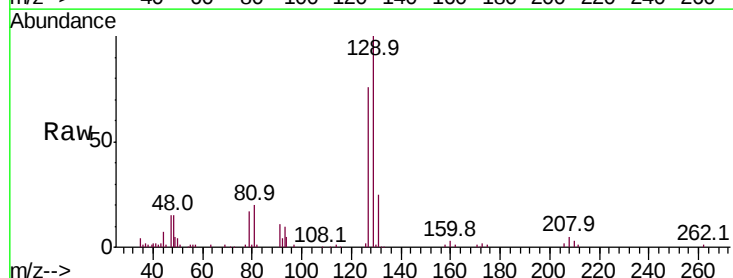
Instrument :  
MSVOA\_F  
ClientSampled :

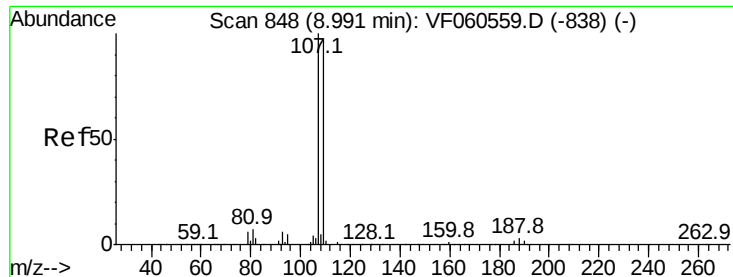
Tot Ion: 43 Resp: 166847  
Ion Ratio Lower Upper  
43 100  
58 51.6 26.1 78.3



#60  
Dibromochloromethane  
Concen: 19.060 ug/l  
RT: 8.73 min Scan# 821  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 129 Resp: 67745  
Ion Ratio Lower Upper  
129 100  
127 75.6 37.8 113.3





#61

1,2-Dibromoethane

Concen: 20.404 ug/l

RT: 8.99 min Scan# 848

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

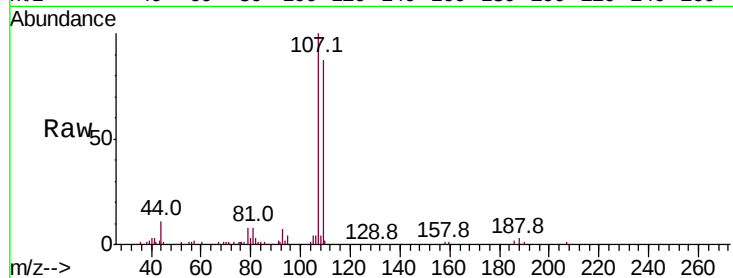
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:107 Resp: 54530

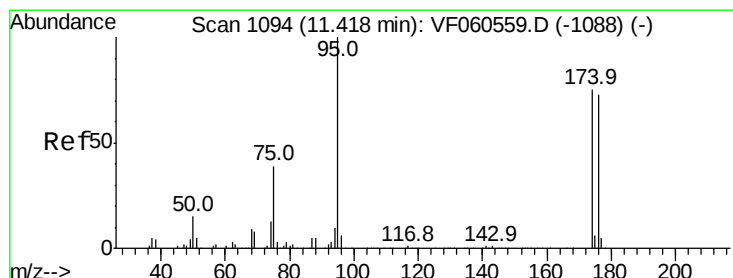
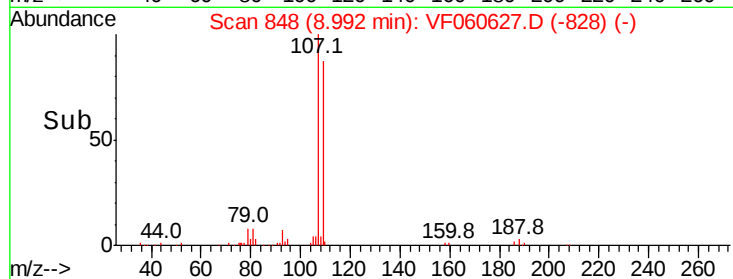
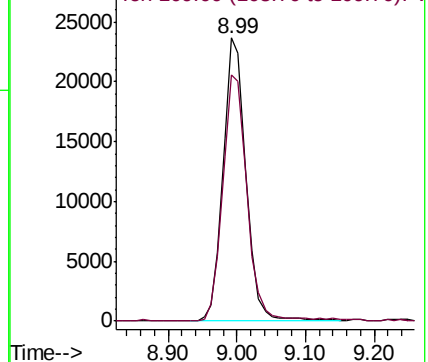
Ion Ratio Lower Upper

107 100

109 87.0 77.5 116.3



Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 50.895 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

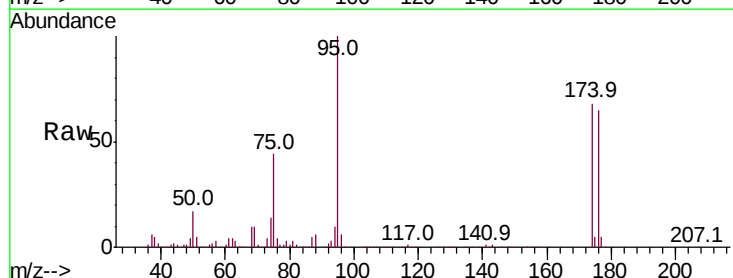
Tgt Ion: 95 Resp: 255586

Ion Ratio Lower Upper

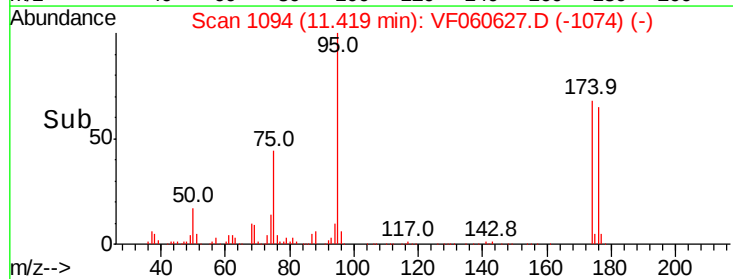
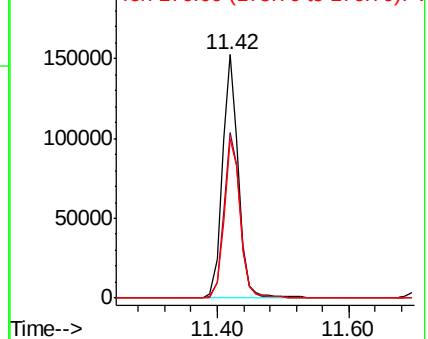
95 100

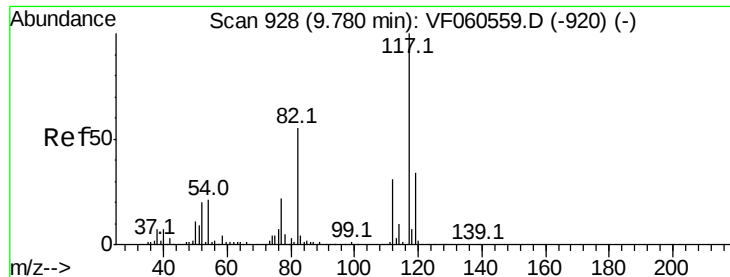
174 68.0 0.0 149.0

176 65.1 0.0 145.6



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

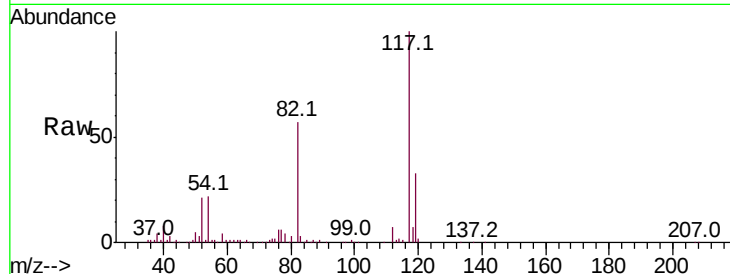




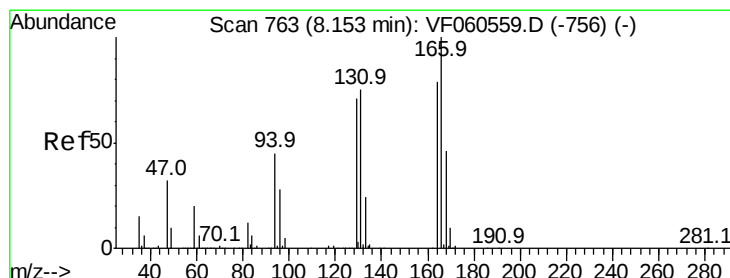
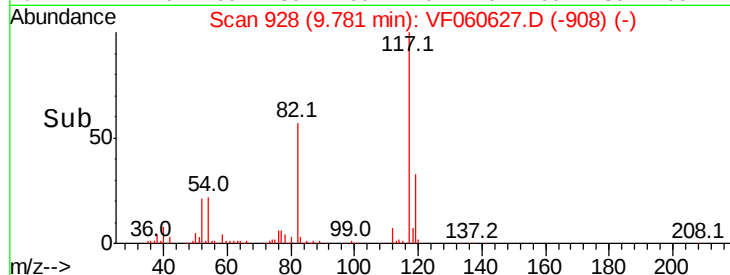
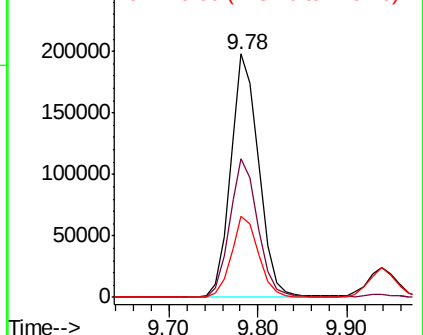
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion:117 Resp: 439070  
Ion Ratio Lower Upper  
117 100  
82 56.8 43.9 65.9  
119 33.1 27.4 41.0

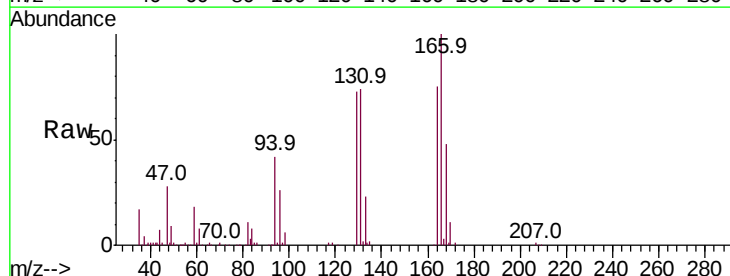


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V

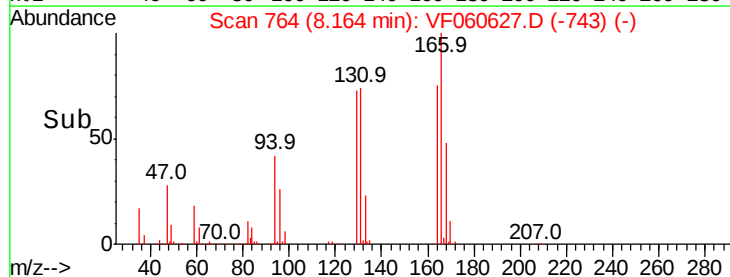
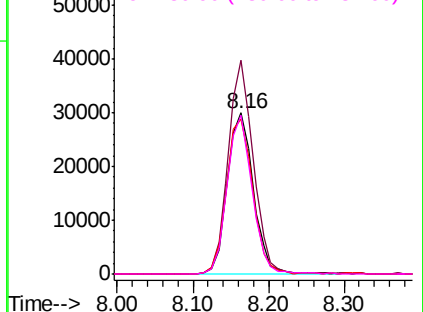


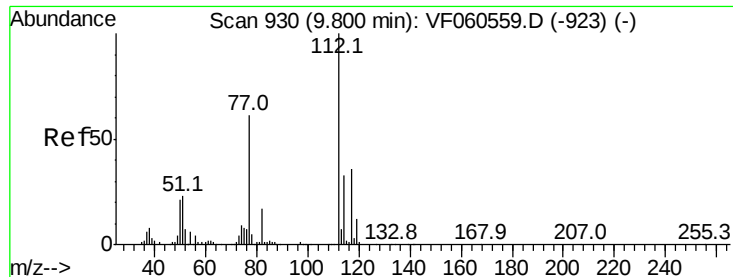
#64  
Tetrachloroethene  
Concen: 20.758 ug/l  
RT: 8.16 min Scan# 764  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion:164 Resp: 71428  
Ion Ratio Lower Upper  
164 100  
166 132.8 101.5 152.3  
129 96.3 72.5 108.7  
131 98.7 76.4 114.6



Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V

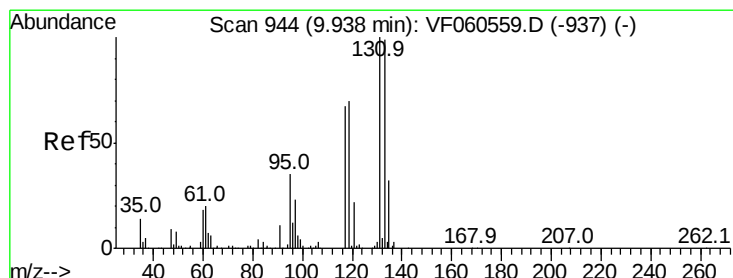
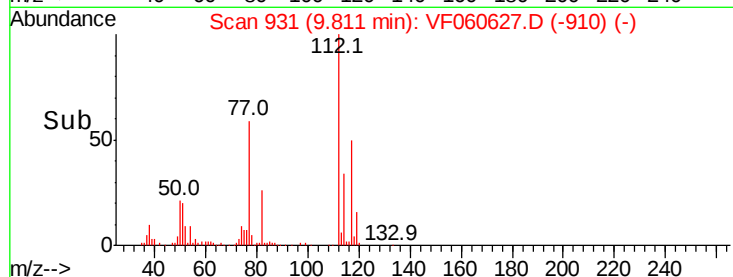
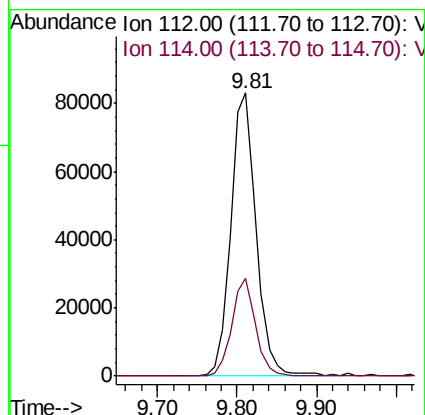
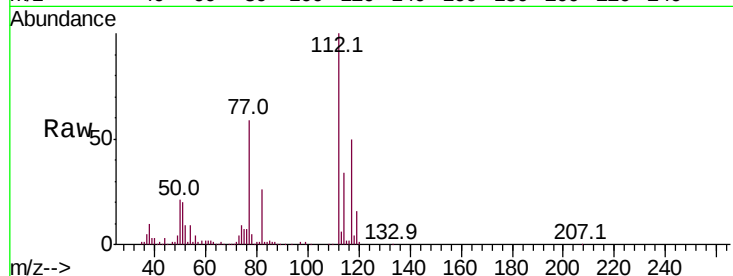




#65  
Chlorobenzene  
Concen: 20.654 ug/l  
RT: 9.81 min Scan# 931  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

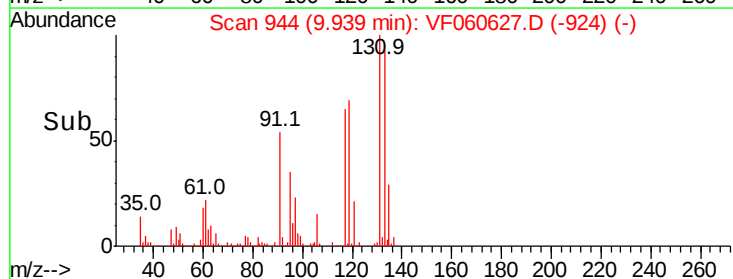
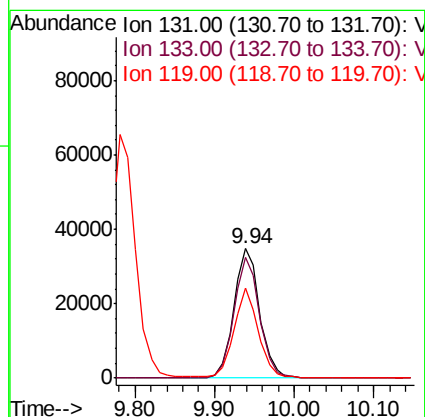
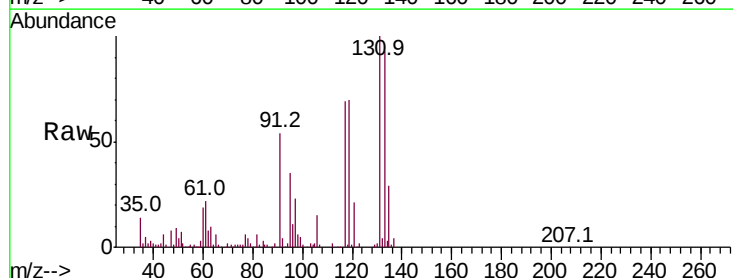
Instrument :  
MSVOA\_F  
ClientSampled :

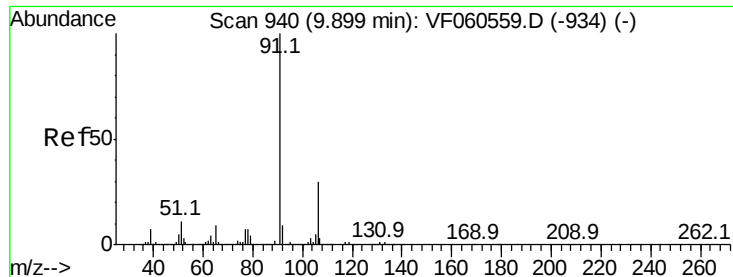
Tot Ion:112 Resp: 185448  
Ion Ratio Lower Upper  
112 100  
114 34.4 26.6 40.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.775 ug/l  
RT: 9.94 min Scan# 944  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion:131 Resp: 78820  
Ion Ratio Lower Upper  
131 100  
133 93.3 49.5 148.7  
119 69.8 35.2 105.6

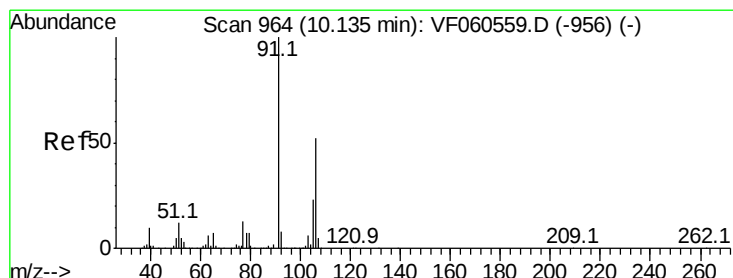
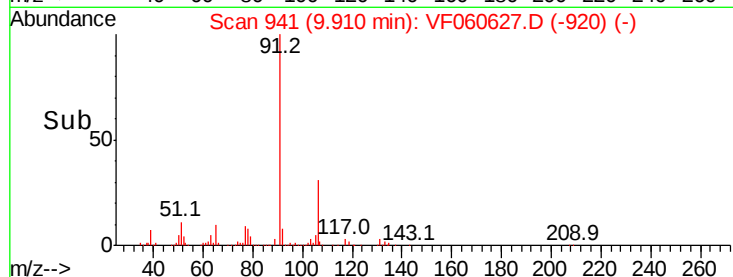
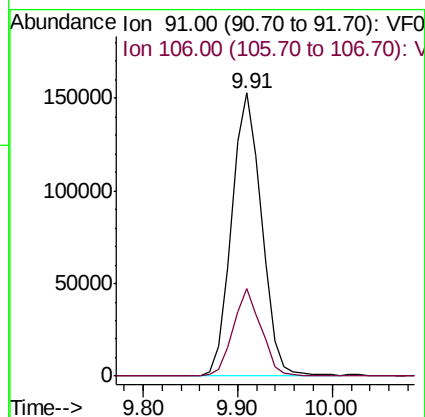
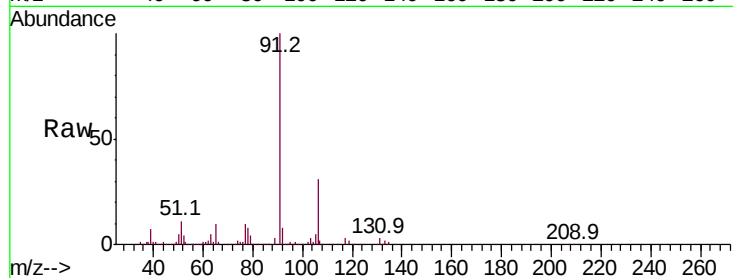




#67  
Ethyl Benzene  
Concen: 20.609 ug/l  
RT: 9.91 min Scan# 941  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

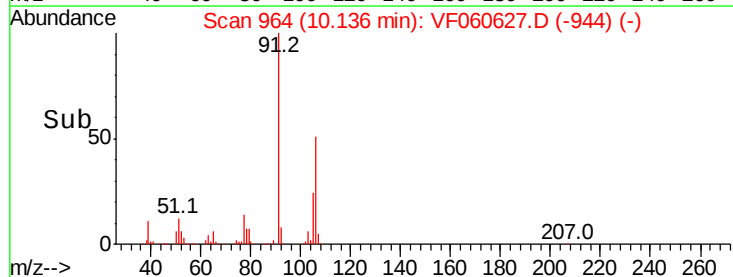
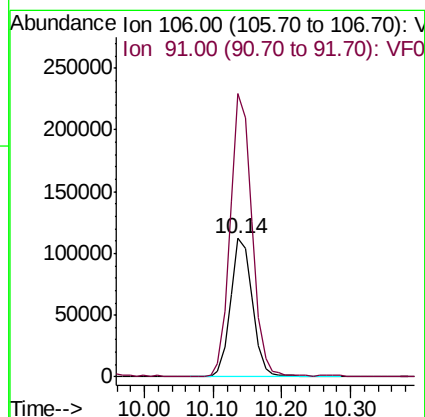
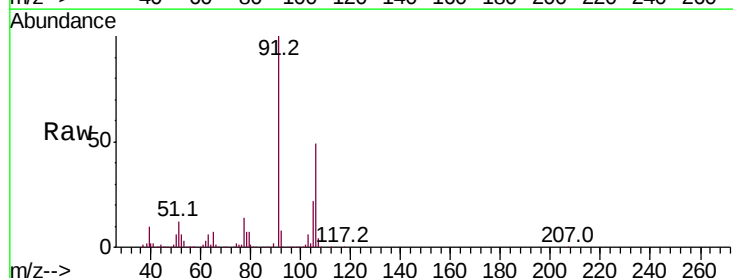
Instrument :  
MSVOA\_F  
ClientSampleId :

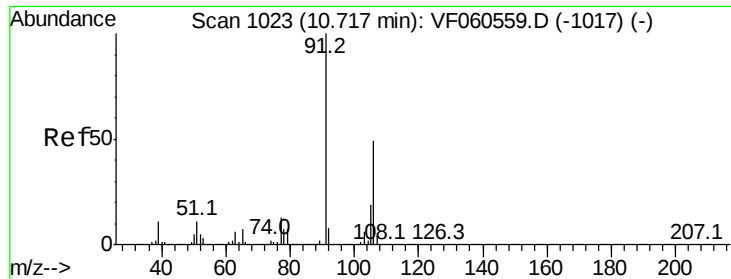
Tot Ion: 91 Resp: 335806  
Ion Ratio Lower Upper  
91 100  
106 30.9 24.2 36.4



#68  
m/p-Xylenes  
Concen: 40.117 ug/l  
RT: 10.14 min Scan# 964  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 106 Resp: 246231  
Ion Ratio Lower Upper  
106 100  
91 204.8 153.9 230.9

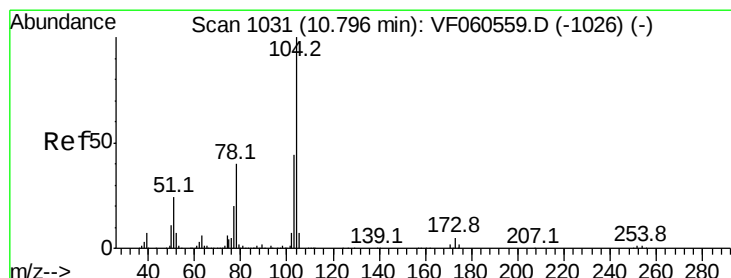
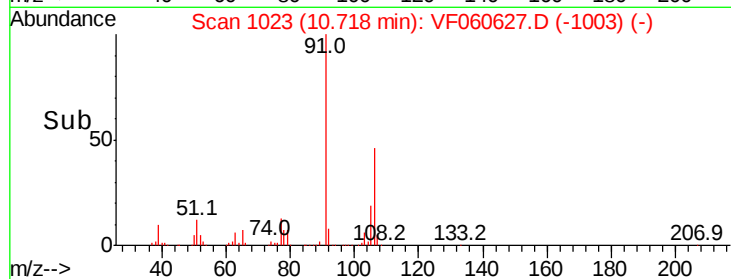
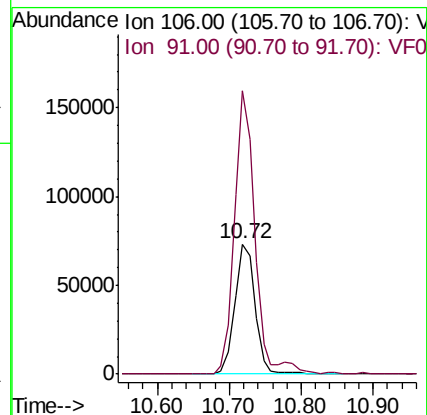
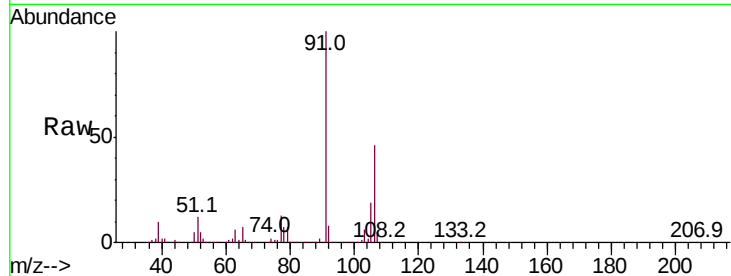




#69  
o-Xylene  
Concen: 21.635 ug/l  
RT: 10.72 min Scan# 1023  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

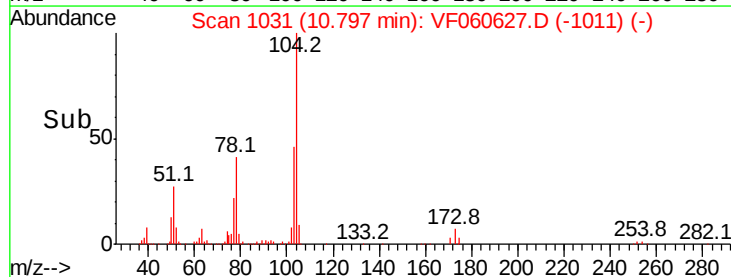
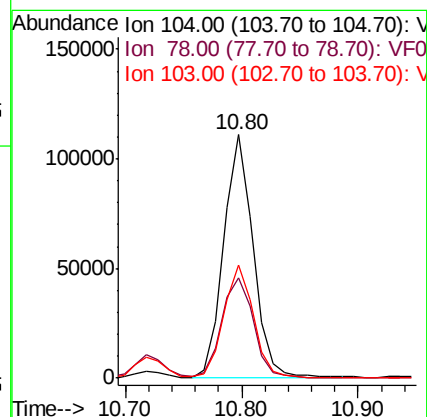
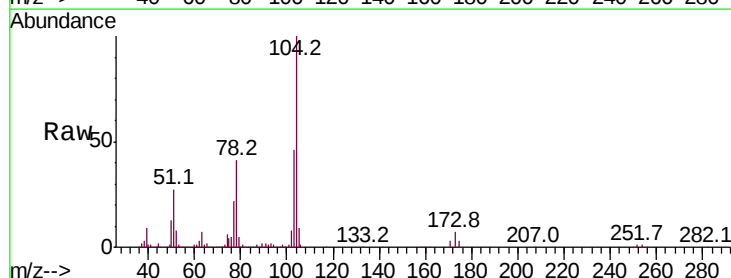
Instrument :  
MSVOA\_F  
ClientSampleId :

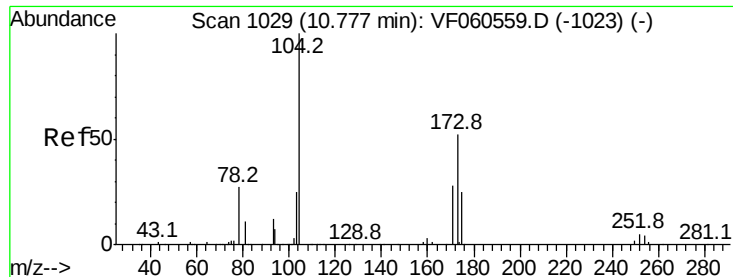
Tot Ion:106 Resp: 144997  
Ion Ratio Lower Upper  
106 100  
91 217.8 101.8 305.3



#70  
Styrene  
Concen: 20.023 ug/l  
RT: 10.80 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion:104 Resp: 194419  
Ion Ratio Lower Upper  
104 100  
78 41.1 32.6 49.0  
103 46.3 35.2 52.8





#71

Bromoform

Concen: 18.662 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

ClientSampleId :

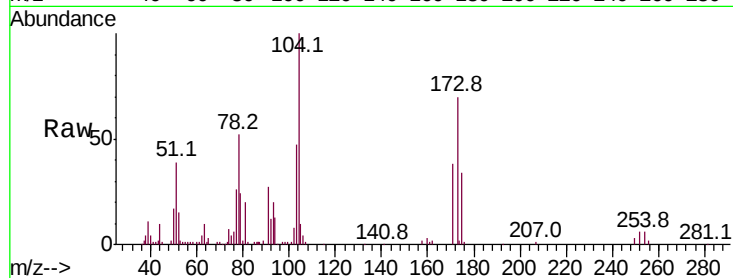
Tot Ion:173 Resp: 36568

Ion Ratio Lower Upper

173 100

175 49.1 24.3 72.9

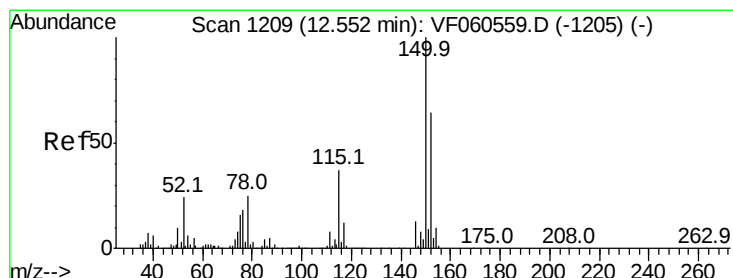
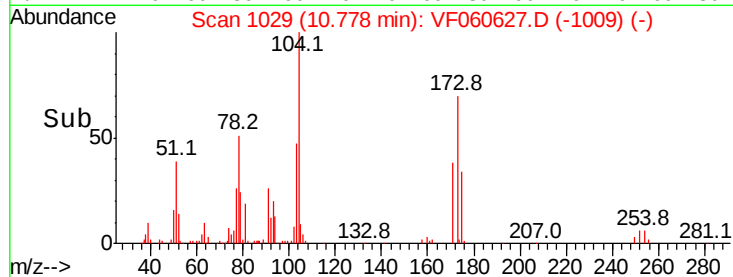
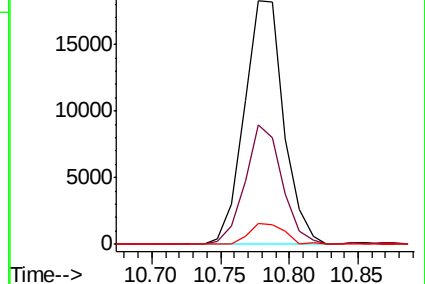
254 8.7 6.7 10.1



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: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

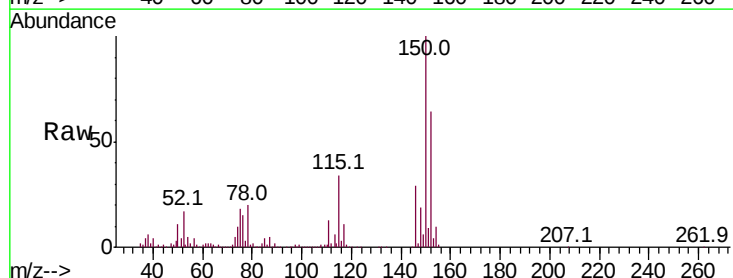
Tgt Ion:152 Resp: 240775

Ion Ratio Lower Upper

152 100

115 53.1 29.6 88.8

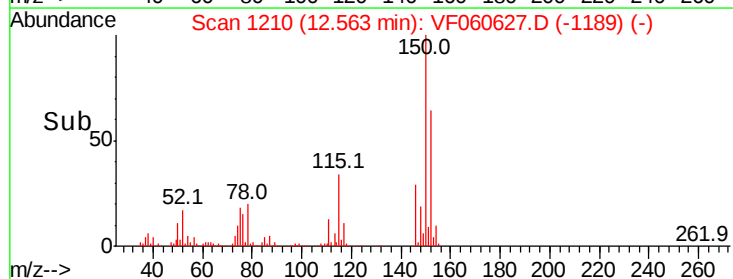
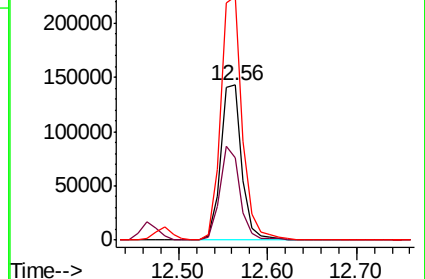
150 157.0 0.0 315.6

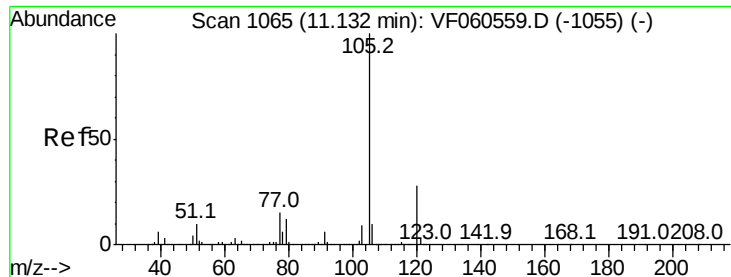


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.327 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

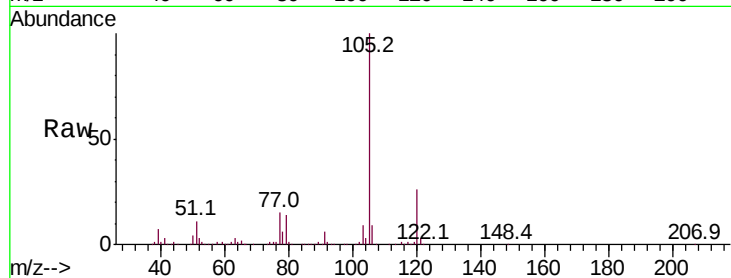
ClientSampleId :

Tot Ion:105 Resp: 400467

Ion Ratio Lower Upper

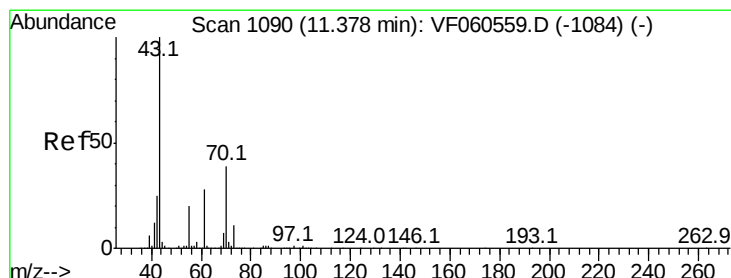
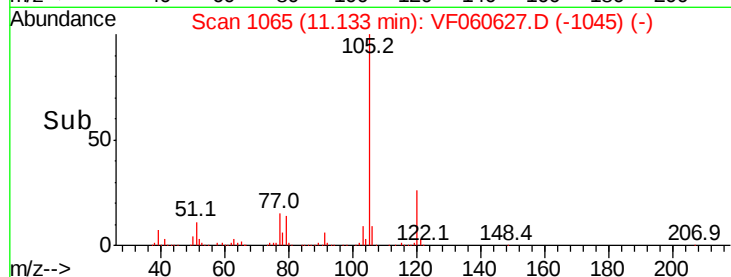
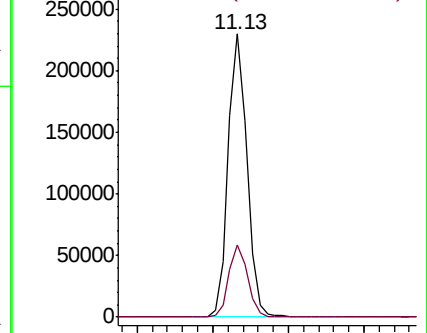
105 100

120 25.7 13.9 41.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.505 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Tgt Ion: 43 Resp: 98716

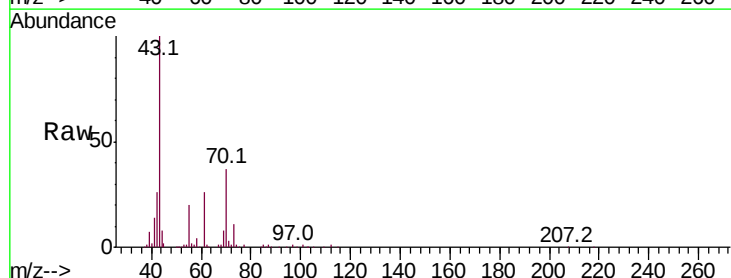
Ion Ratio Lower Upper

43 100

70 36.8 30.9 46.3

55 20.1 16.6 24.8

61 26.2 22.0 33.0

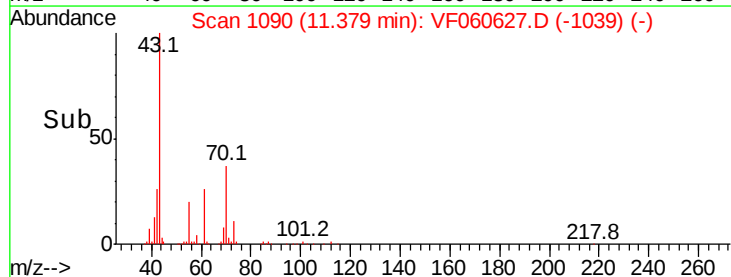
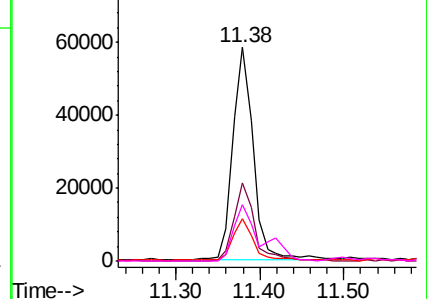


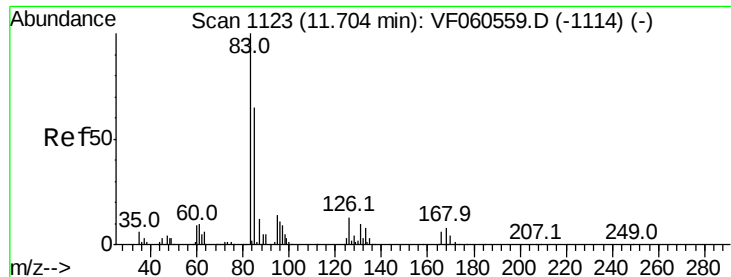
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 20.491 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

ClientSampled :

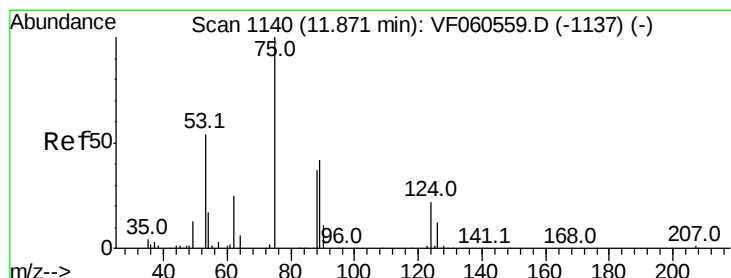
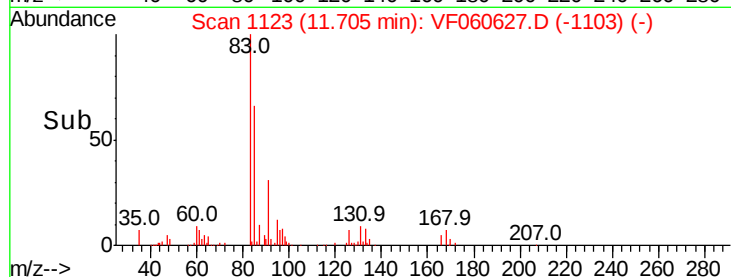
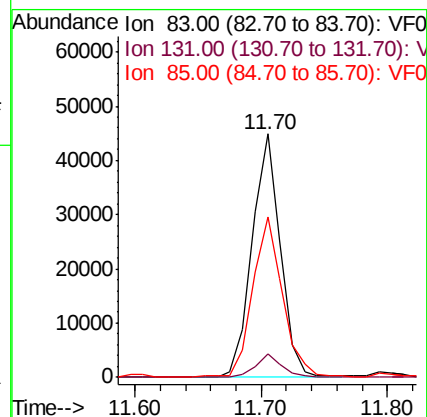
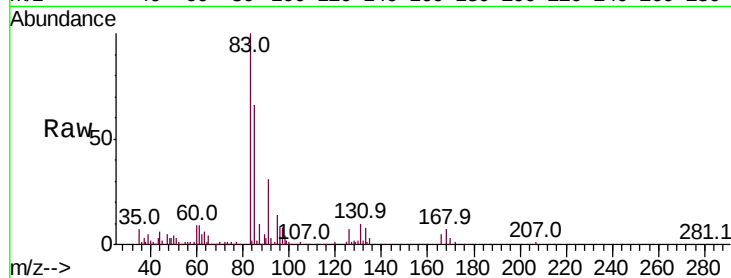
Tot Ion: 83 Resp: 70233

Ion Ratio Lower Upper

83 100

131 9.5 5.0 14.9

85 66.1 32.9 98.7



#76

1,2,3-Trichloropropane

Concen: 19.130 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060627.D

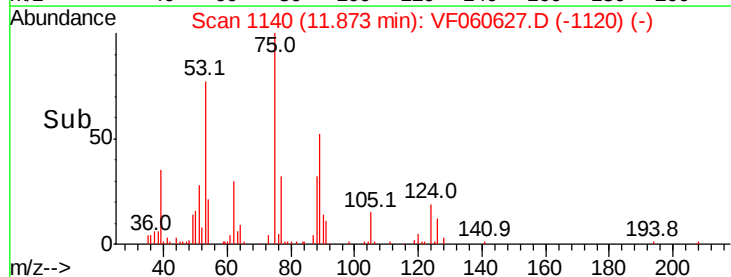
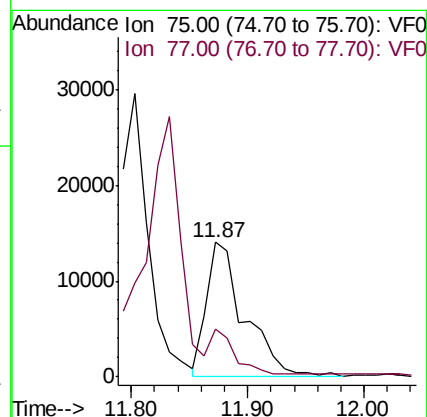
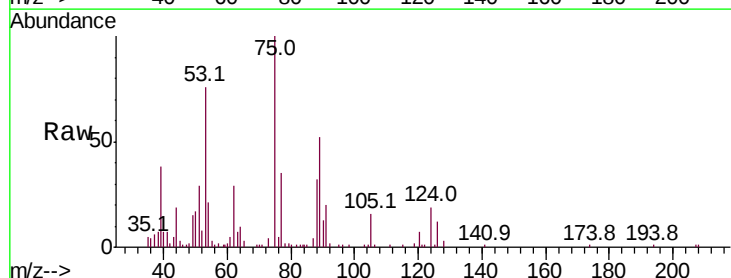
Acq: 7 Nov 2018 13:52

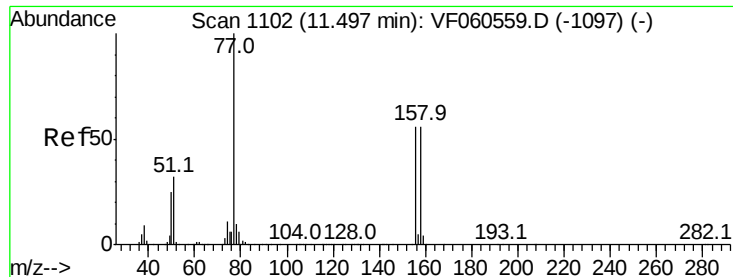
Tgt Ion: 75 Resp: 32223

Ion Ratio Lower Upper

75 100

77 35.3 17.4 52.3





#77

Bromobenzene

Concen: 20.366 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

ClientSampleId :

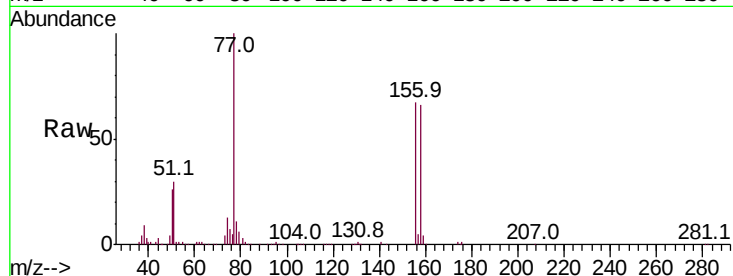
Tot Ion:156 Resp: 83680

Ion Ratio Lower Upper

156 100

77 149.7 89.3 268.1

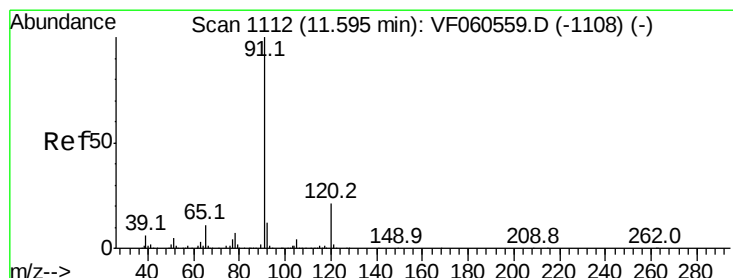
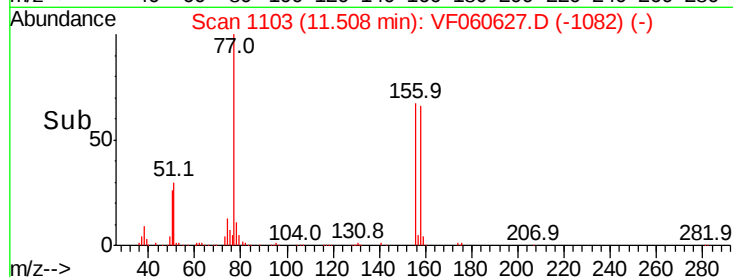
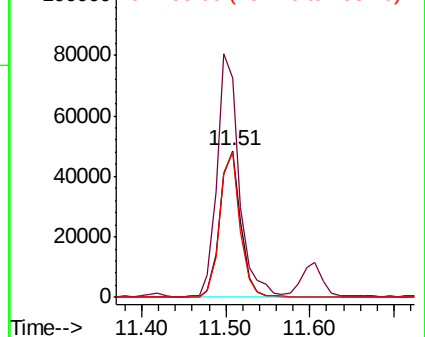
158 98.8 50.0 150.1



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: 21.606 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF060627.D

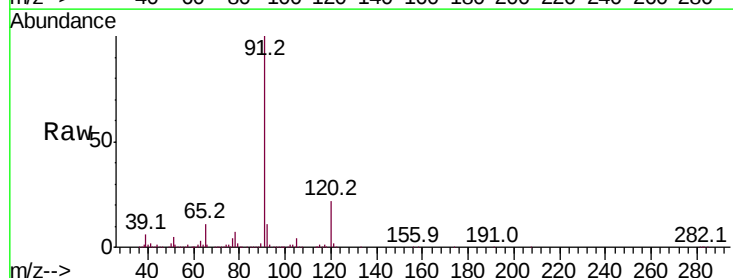
Acq: 7 Nov 2018 13:52

Tgt Ion: 91 Resp: 474680

Ion Ratio Lower Upper

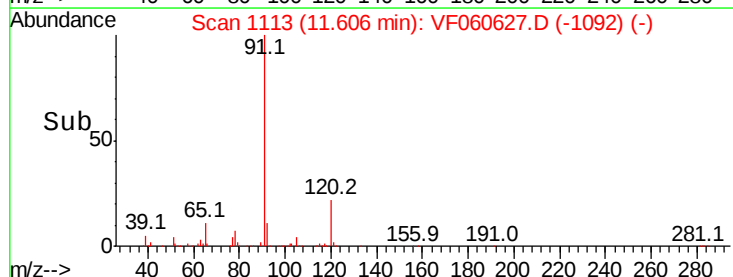
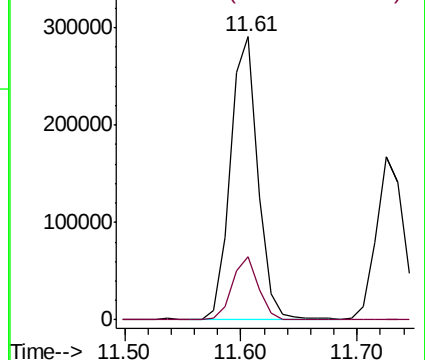
91 100

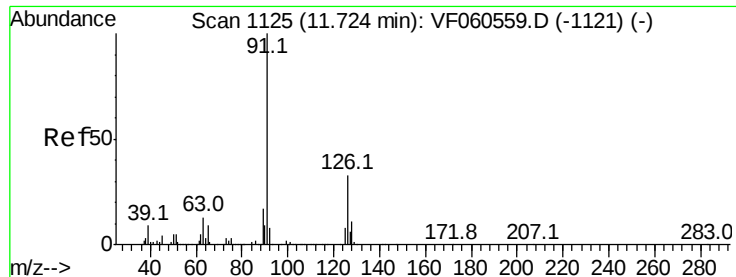
120 22.3 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.574 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

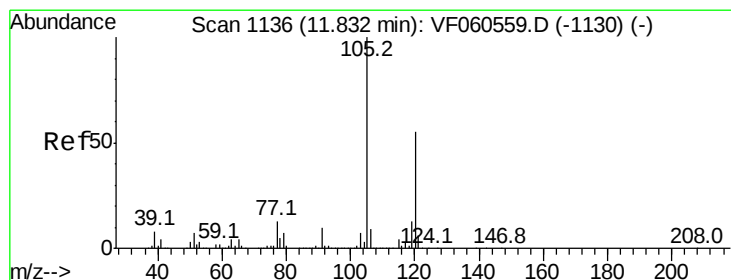
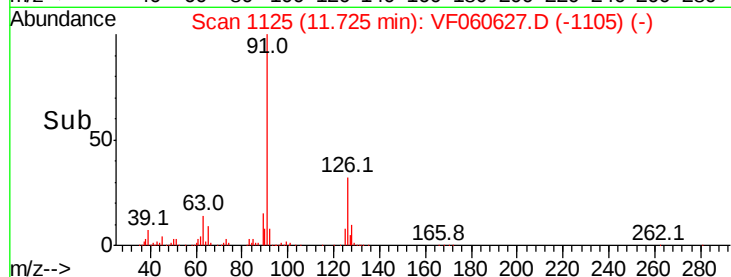
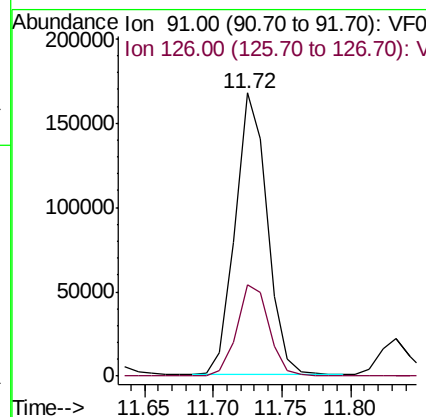
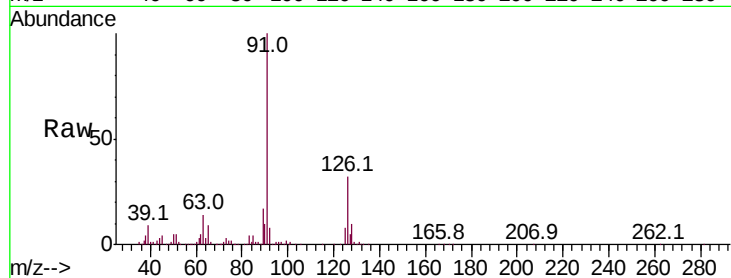
ClientSampleId :

Tot Ion: 91 Resp: 270689

Ion Ratio Lower Upper

91 100

126 32.1 16.5 49.5



#80

1,3,5-Trimethylbenzene

Concen: 20.546 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF060627.D

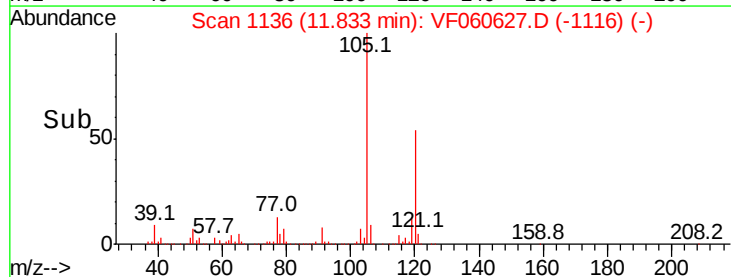
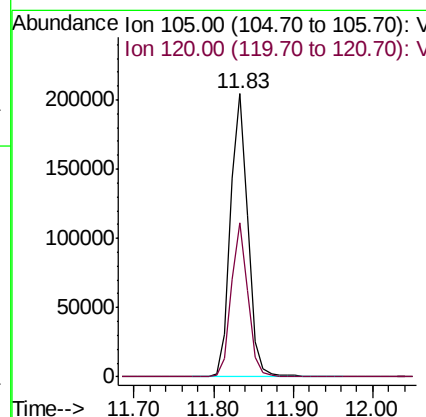
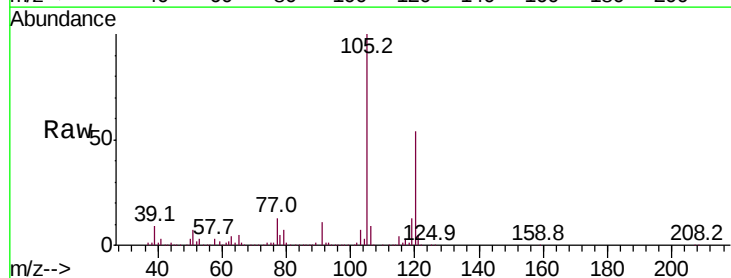
Acq: 7 Nov 2018 13:52

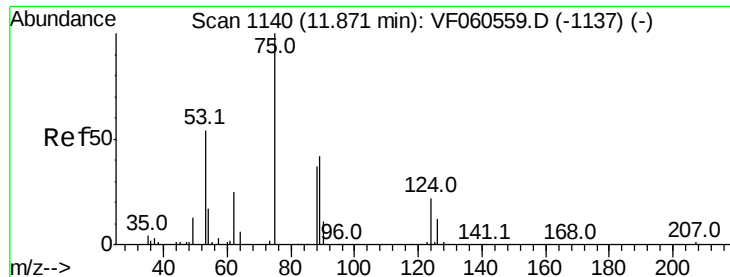
Tgt Ion: 105 Resp: 318012

Ion Ratio Lower Upper

105 100

120 54.3 27.6 82.8

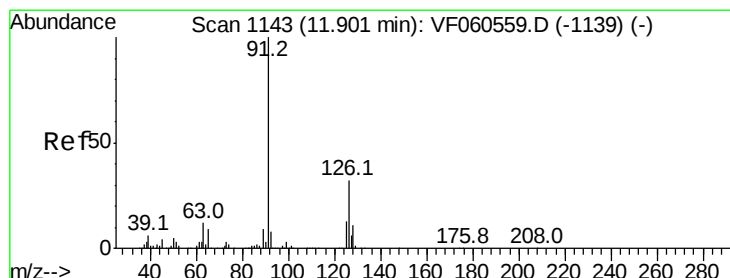
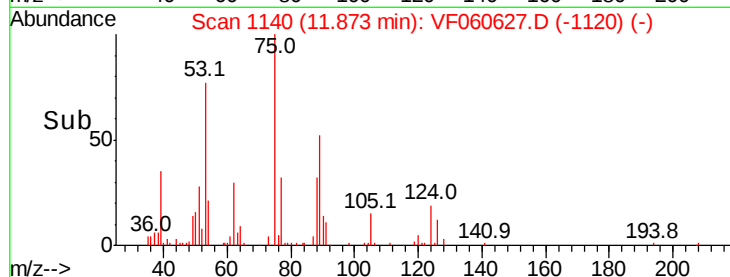
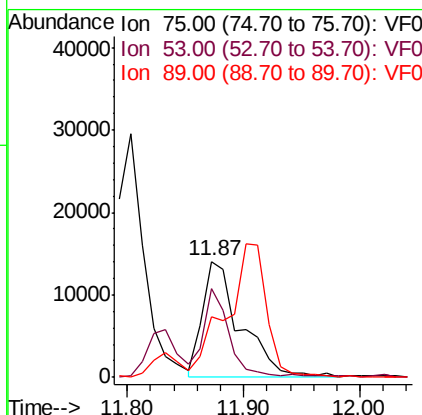
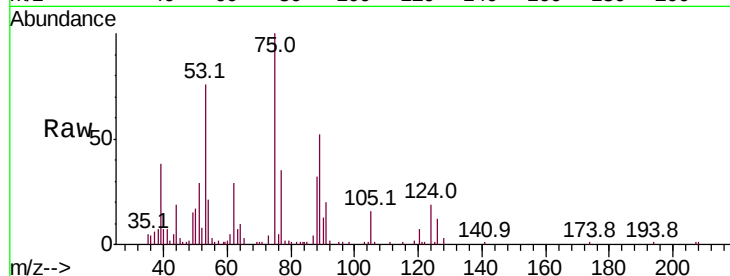




#81  
trans-1,4-Dichloro-2-butene  
Concen: 24.342 ug/l  
RT: 11.87 min Scan# 1140  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

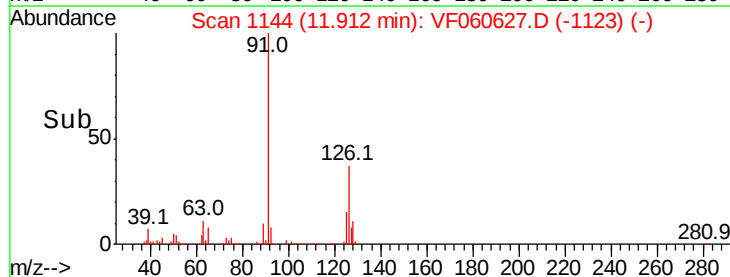
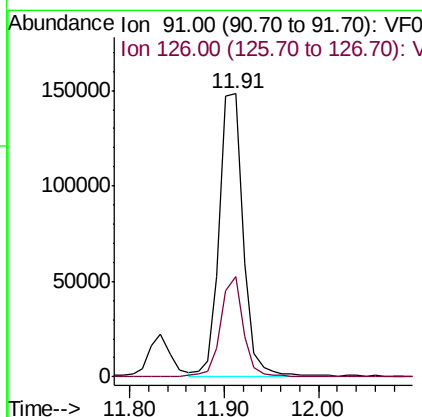
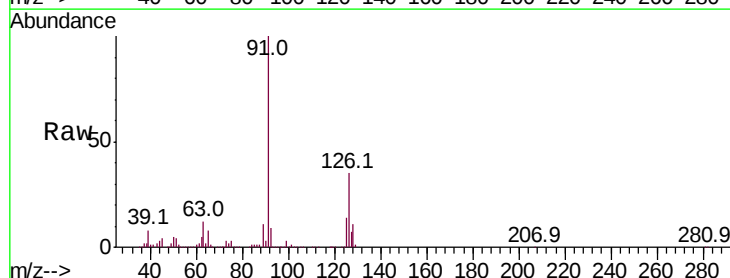
Instrument :  
MSVOA\_F  
ClientSampleId :

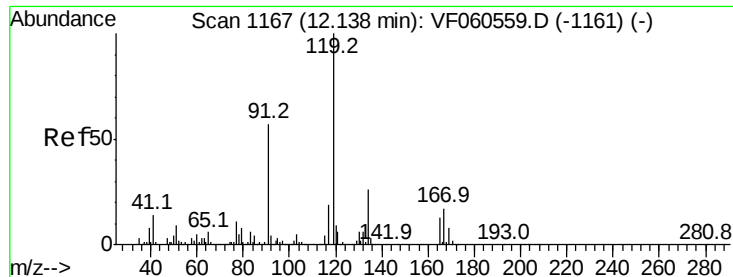
Tot Ion: 75 Resp: 32223  
Ion Ratio Lower Upper  
75 100  
53 76.4 51.6 77.4  
89 52.0 36.7 55.1



#82  
4-Chlorotoluene  
Concen: 19.786 ug/l  
RT: 11.91 min Scan# 1144  
Delta R.T. 0.01 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 91 Resp: 259009  
Ion Ratio Lower Upper  
91 100  
126 35.2 15.9 47.7





#83

tert-Butylbenzene

Concen: 21.508 ug/l

RT: 12.14 min Scan# 1167

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

ClientSampleId :

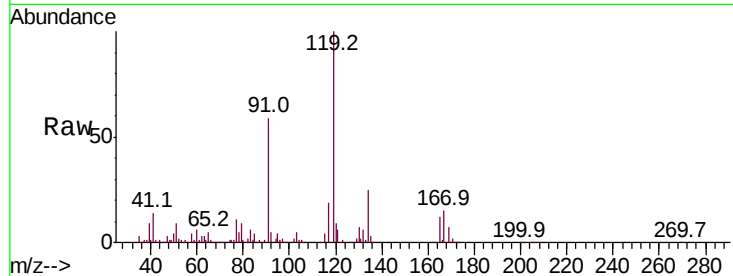
Tot Ion:119 Resp: 340079

Ion Ratio Lower Upper

119 100

91 58.6 28.8 86.4

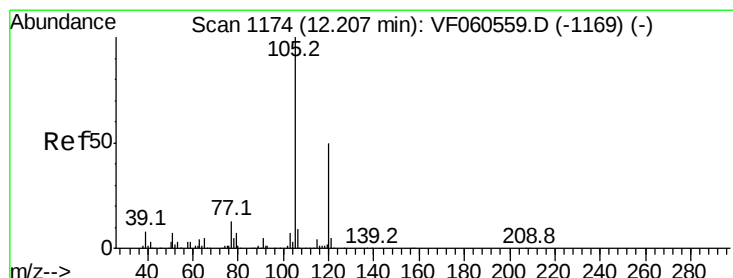
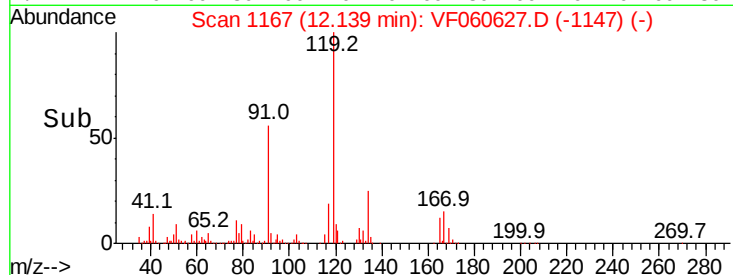
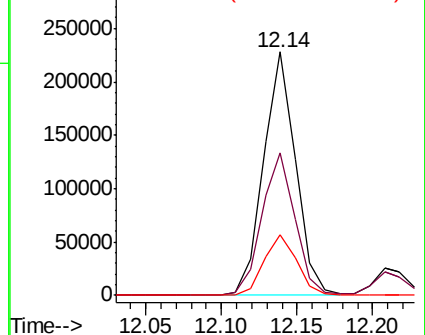
134 25.1 13.2 39.6



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: 20.948 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VF060627.D

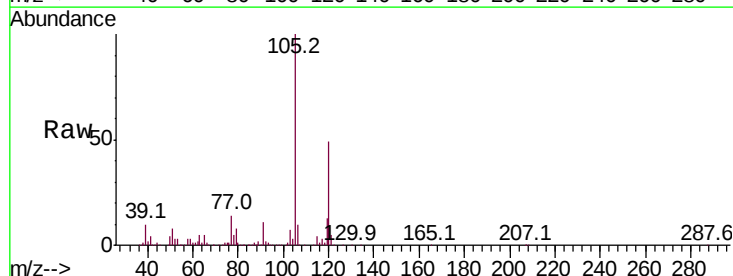
Acq: 7 Nov 2018 13:52

Tgt Ion:105 Resp: 317518

Ion Ratio Lower Upper

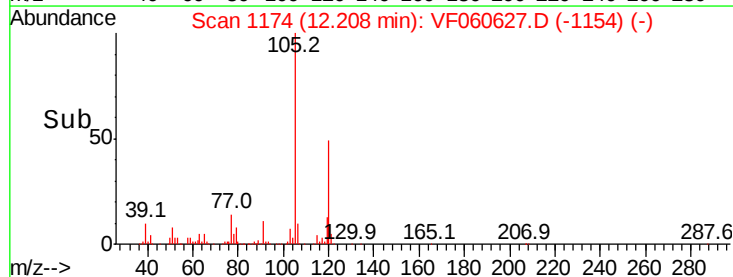
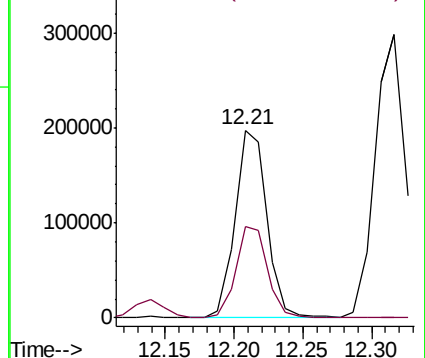
105 100

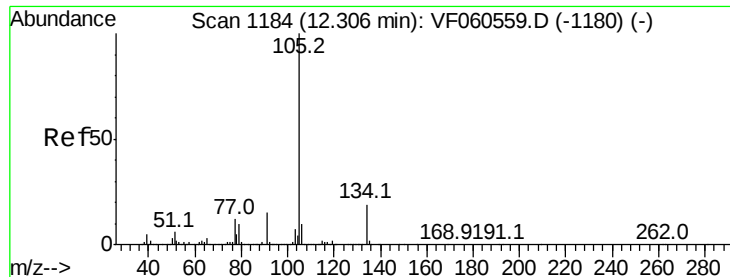
120 48.9 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.331 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

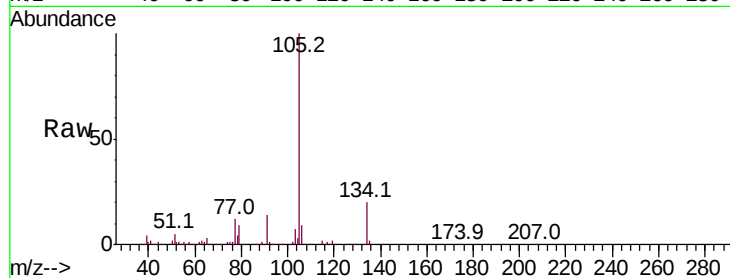
ClientSampleId :

Tot Ion:105 Resp: 463974

Ion Ratio Lower Upper

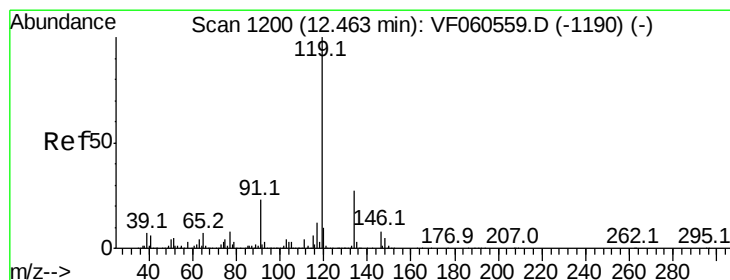
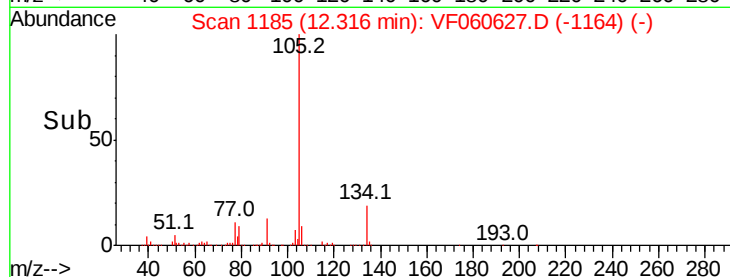
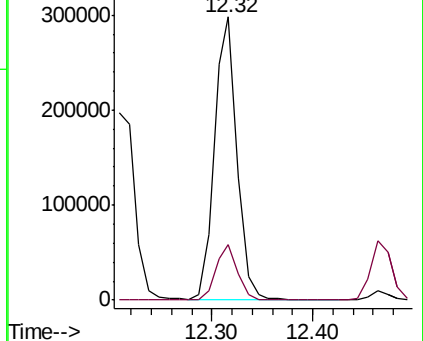
105 100

134 19.5 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.834 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

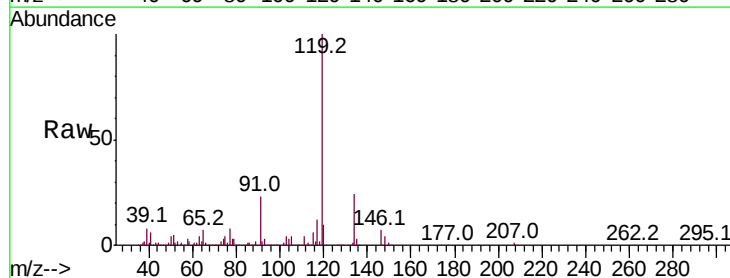
Tgt Ion:119 Resp: 373183

Ion Ratio Lower Upper

119 100

134 24.1 13.6 40.7

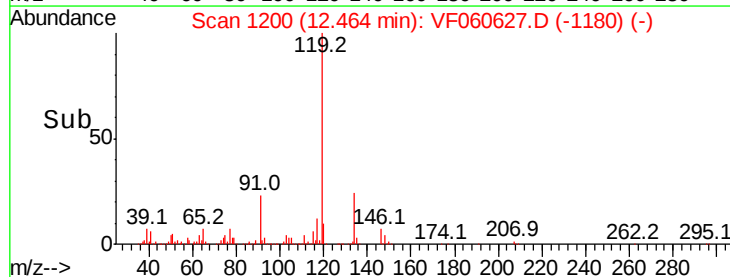
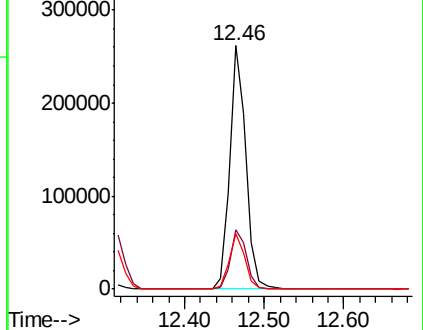
91 22.9 11.4 34.2

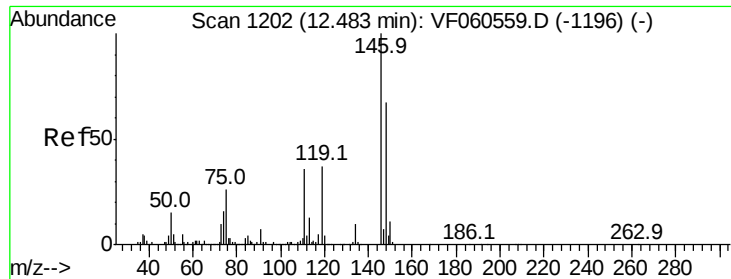


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

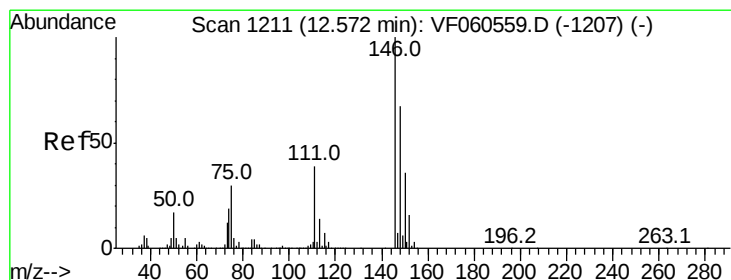
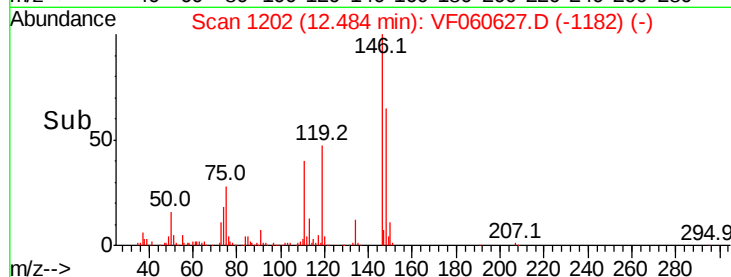
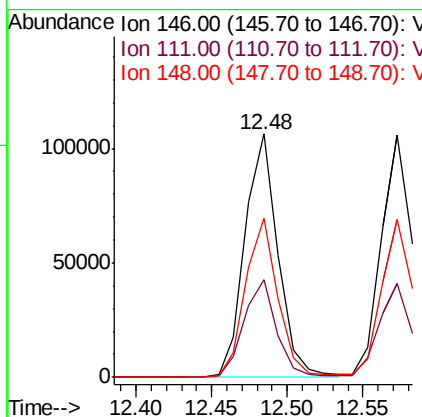
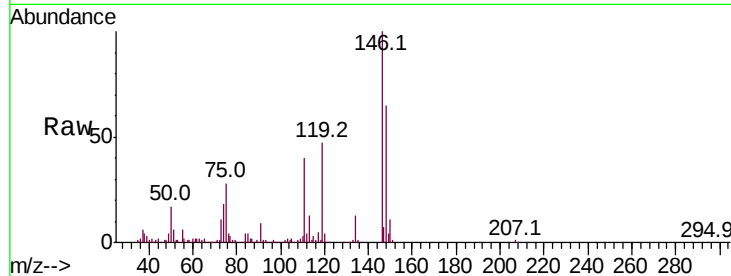




#87  
 1,3-Dichlorobenzene  
 Concen: 20.115 ug/l  
 RT: 12.48 min Scan# 1202  
 Delta R.T. 0.00 min  
 Lab File: VF060627.D  
 Acq: 7 Nov 2018 13:52

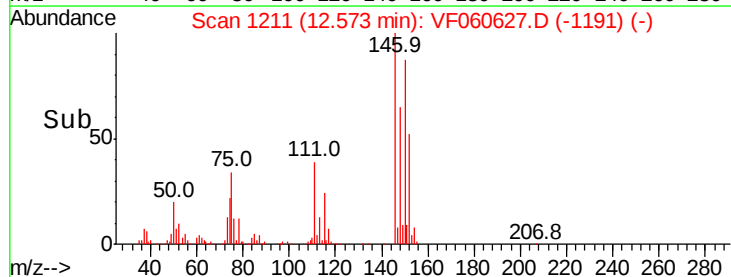
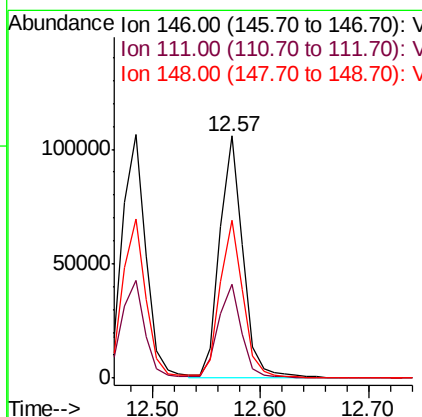
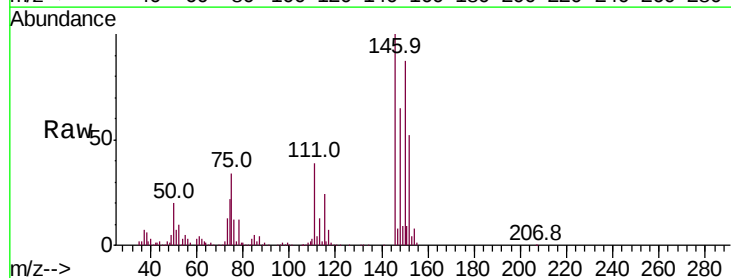
Instrument :  
 MSVOA\_F  
 ClientSampleId :

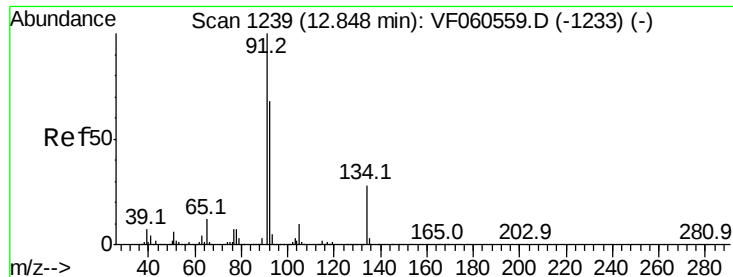
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.2  | 18.3  | 54.8  |
| 148     | 65.3  | 33.5  | 100.4 |



#88  
 1,4-Dichlorobenzene  
 Concen: 20.605 ug/l  
 RT: 12.57 min Scan# 1211  
 Delta R.T. 0.00 min  
 Lab File: VF060627.D  
 Acq: 7 Nov 2018 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.8  | 19.7  | 59.1  |
| 148     | 65.5  | 33.7  | 101.1 |

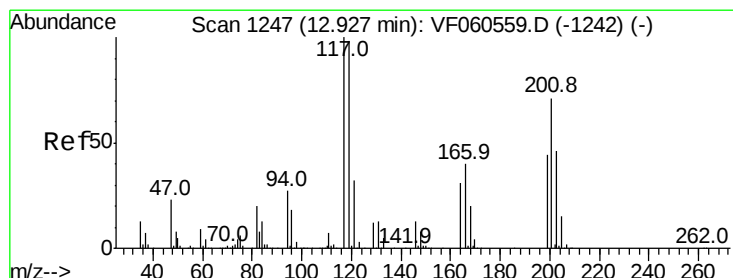
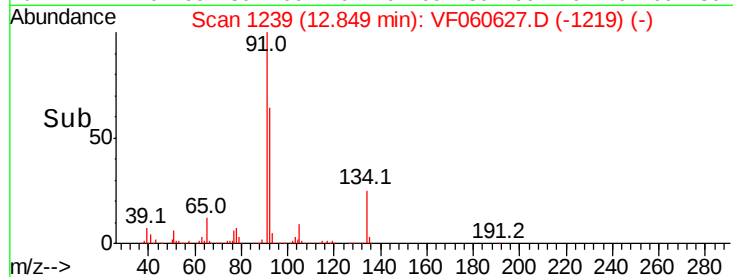
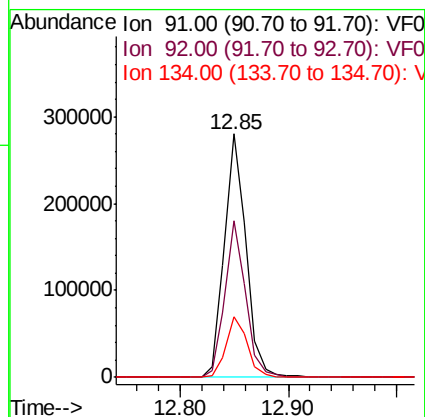
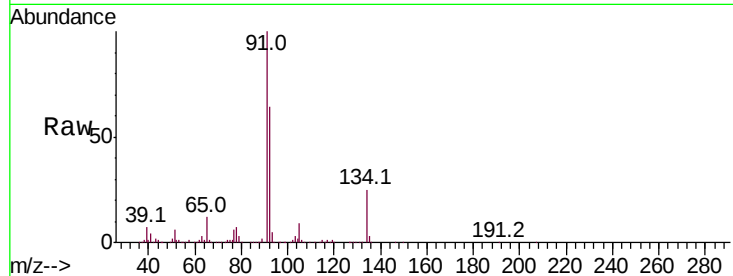




#89  
n-Butylbenzene  
Concen: 19.897 ug/l  
RT: 12.85 min Scan# 1239  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

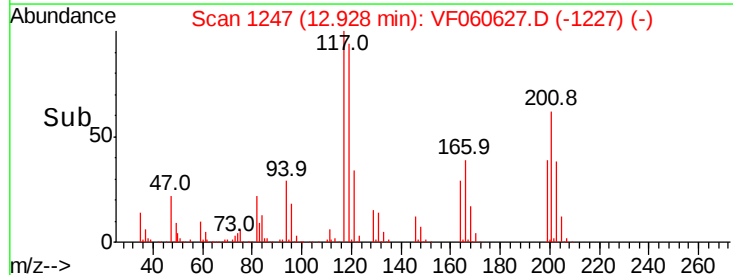
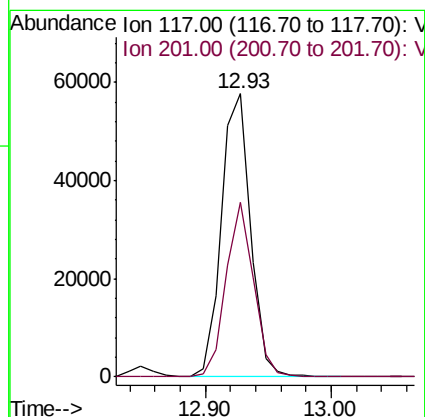
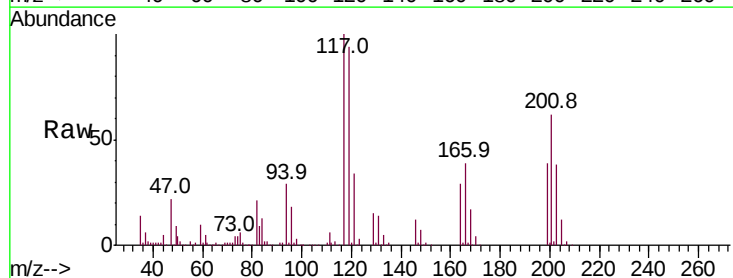
Instrument :  
MSVOA\_F  
ClientSampled :

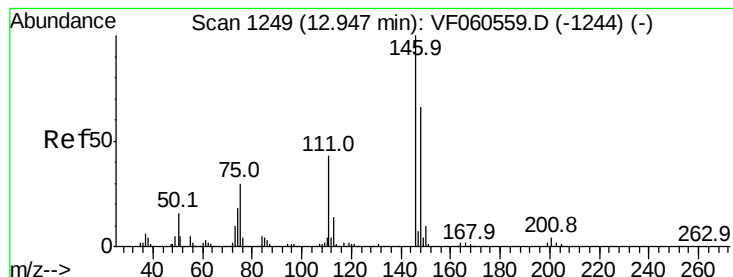
Tot Ion: 91 Resp: 389906  
Ion Ratio Lower Upper  
91 100  
92 64.1 34.1 102.2  
134 25.1 13.9 41.6



#90  
Hexachloroethane  
Concen: 20.361 ug/l  
RT: 12.93 min Scan# 1247  
Delta R.T. 0.00 min  
Lab File: VF060627.D  
Acq: 7 Nov 2018 13:52

Tgt Ion: 117 Resp: 92748  
Ion Ratio Lower Upper  
117 100  
201 61.6 35.2 105.6





#91

1,2-Dichlorobenzene

Concen: 20.672 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

ClientSampled :

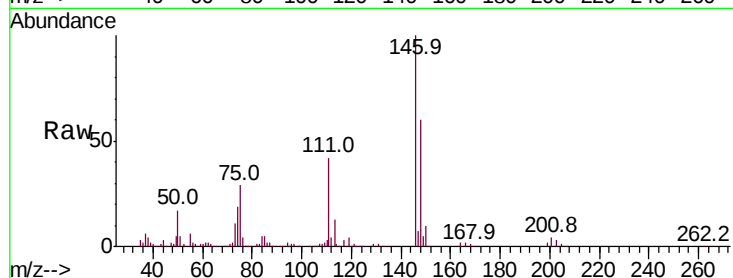
Tot Ion:146 Resp: 155967

Ion Ratio Lower Upper

146 100

111 42.1 21.3 64.0

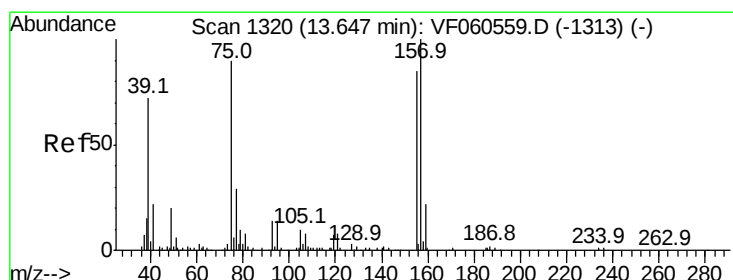
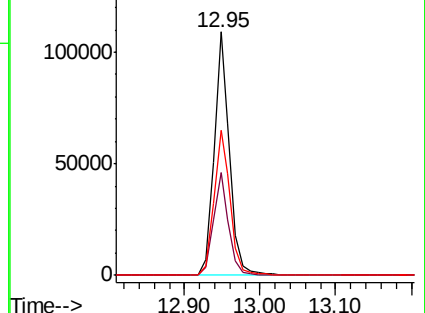
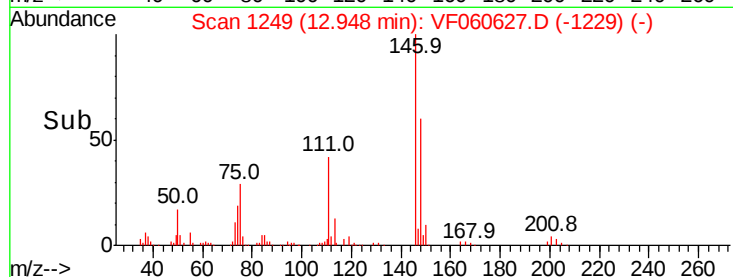
148 59.7 32.9 98.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.875 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

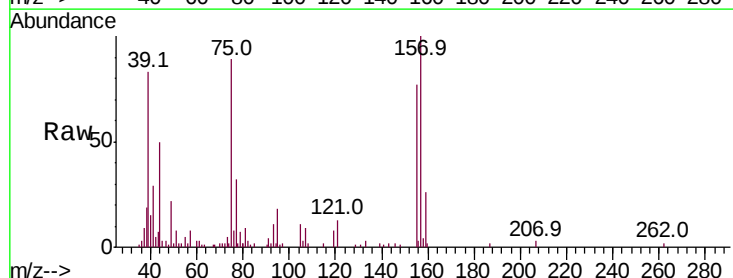
Tgt Ion: 75 Resp: 11835

Ion Ratio Lower Upper

75 100

155 86.5 47.3 141.8

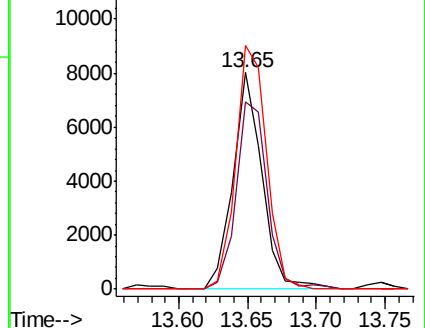
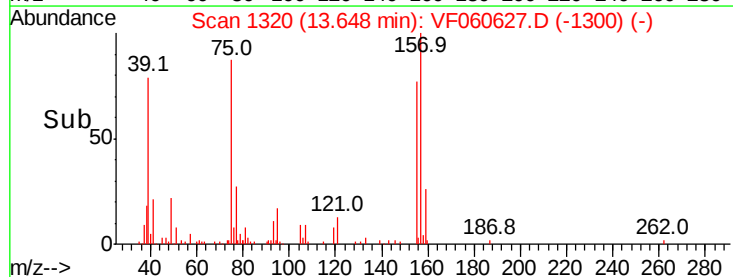
157 112.5 55.3 165.9

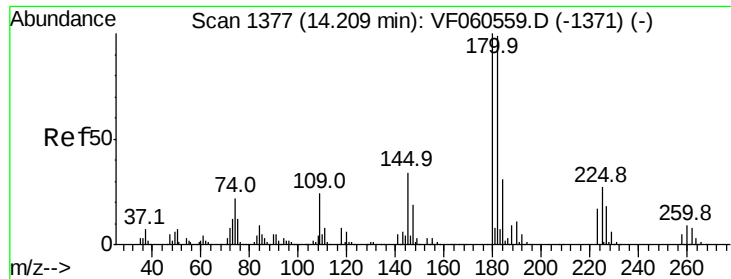


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

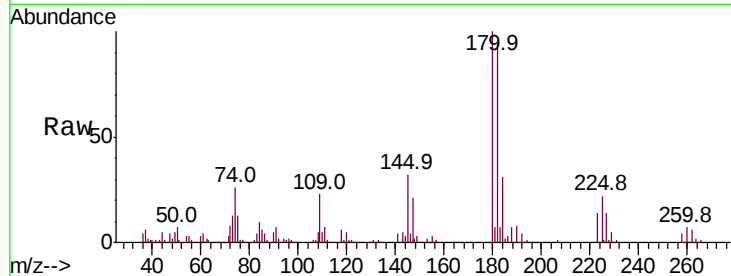




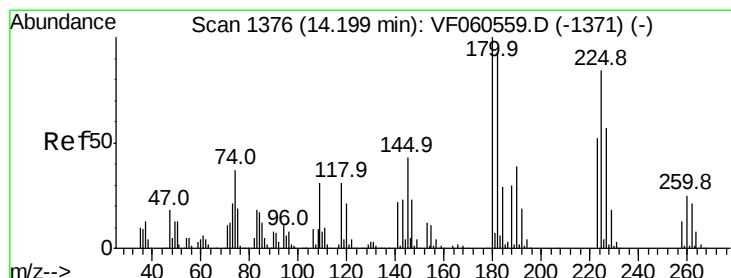
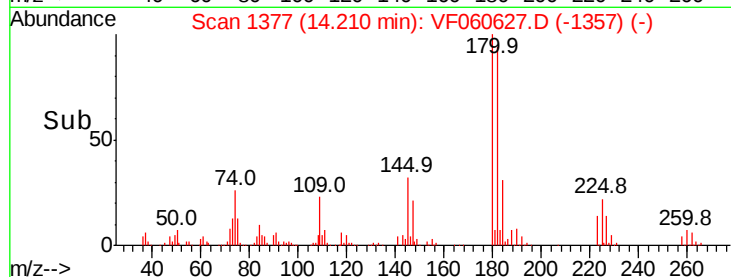
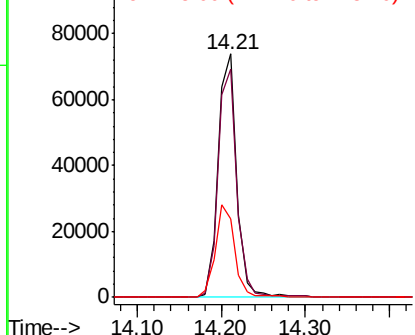
#93  
 1,2,4-Trichlorobenzene  
 Concen: 22.144 ug/l  
 RT: 14.21 min Scan# 1377  
 Delta R.T. 0.00 min  
 Lab File: VF060627.D  
 Acq: 7 Nov 2018 13:52

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Tot Ion:180 Resp: 113502  
 Ion Ratio Lower Upper  
 180 100  
 182 93.7 49.7 149.1  
 145 32.0 16.9 50.7

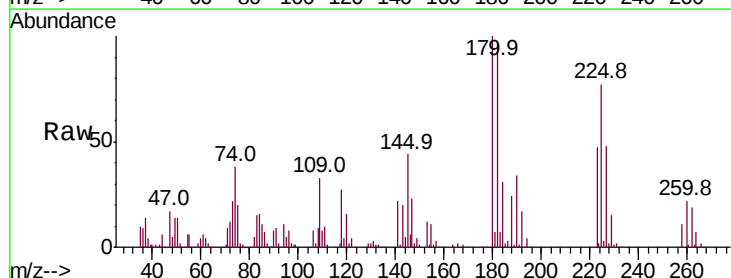


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

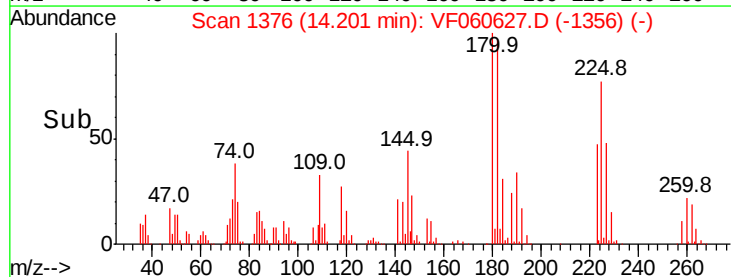
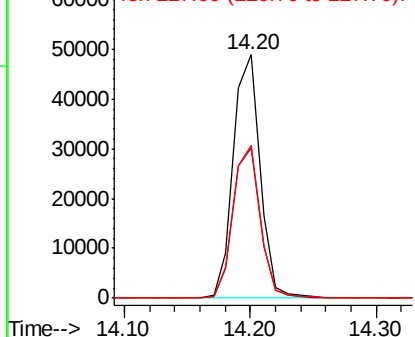


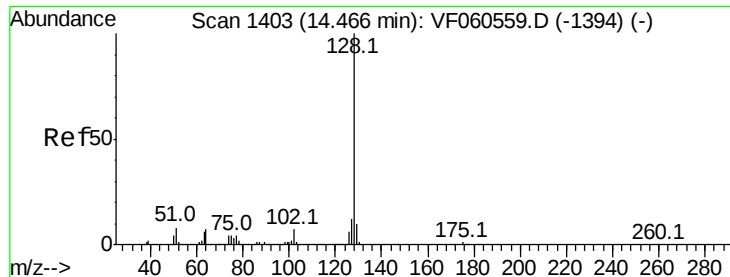
#94  
 Hexachlorobutadiene  
 Concen: 21.618 ug/l  
 RT: 14.20 min Scan# 1376  
 Delta R.T. 0.00 min  
 Lab File: VF060627.D  
 Acq: 7 Nov 2018 13:52

Tgt Ion:225 Resp: 71801  
 Ion Ratio Lower Upper  
 225 100  
 223 61.9 30.9 92.5  
 227 62.9 33.9 101.6



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





#95

Naphthalene

Concen: 18.589 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.00 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

Instrument :

MSVOA\_F

ClientSampleId :

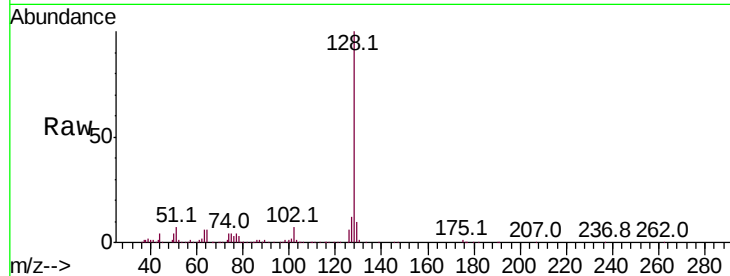
Tot Ion:128 Resp: 190711

Ion Ratio Lower Upper

128 100

127 11.5 9.4 14.0

129 9.5 8.4 12.6

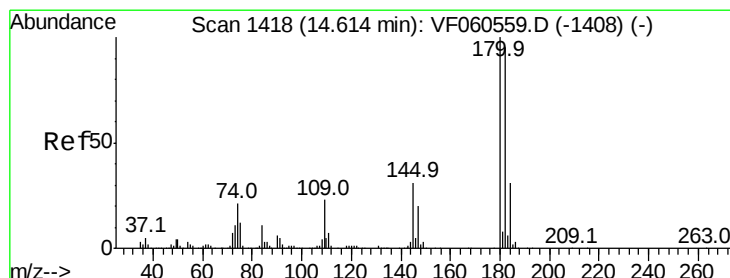
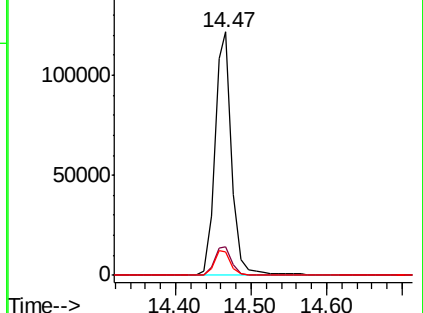
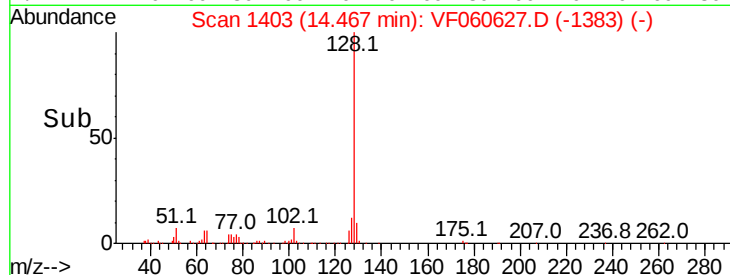


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

14.47



#96

1,2,3-Trichlorobenzene

Concen: 20.647 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF060627.D

Acq: 7 Nov 2018 13:52

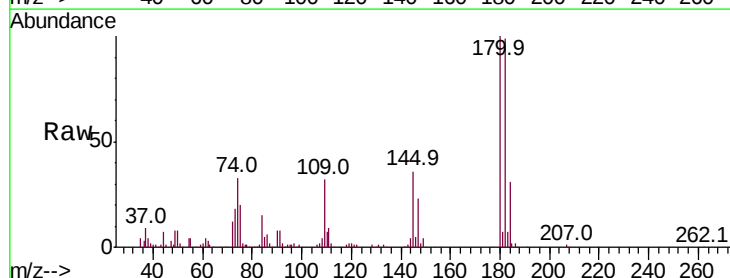
Tgt Ion:180 Resp: 99971

Ion Ratio Lower Upper

180 100

182 98.5 47.3 142.0

145 36.3 15.6 46.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

14.60

