

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051619\  
 Data File : VF062620.D  
 Acq On : 16 May 2019 11:32  
 Operator : FY/SY  
 Sample : VSTDIC020  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

Quant Time: May 17 05:02:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 04:56:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 780572   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.79  | 114  | 1220766  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 908021   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 465547   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.04  | 65   | 104886   | 19.02 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 38.04% |          |
| 35) Dibromofluoromethane    | 4.32  | 113  | 184700   | 19.77 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 39.54% |          |
| 50) Toluene-d8              | 7.72  | 98   | 445509   | 19.97 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 39.94% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 163645   | 19.35 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 38.70% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.01 | 85   | 208299   | 19.609  | ug/l   | 97     |
| 3) Chloromethane              | 1.15 | 50   | 195403   | 19.978  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.20 | 62   | 183468   | 20.378  | ug/l   | 98     |
| 5) Bromomethane               | 1.40 | 94   | 89546    | 18.181  | ug/l   | 92     |
| 6) Chloroethane               | 1.45 | 64   | 58874    | 17.805  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 1.56 | 101  | 239165   | 20.999  | ug/l   | 99     |
| 8) Diethyl Ether              | 1.72 | 74   | 46916    | 19.590  | ug/l   | 81     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.92 | 101  | 150394   | 19.538  | ug/l   | 98     |
| 10) Methyl Iodide             | 2.00 | 142  | 300655   | 19.883  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 2.72 | 59   | 32959    | 90.506  | ug/l # | 94     |
| 12) 1,1-Dichloroethene        | 1.88 | 96   | 137621   | 19.626  | ug/l   | 93     |
| 13) Acrolein                  | 2.10 | 56   | 40782    | 107.283 | ug/l   | 100    |
| 14) Allyl chloride            | 2.20 | 41   | 137134   | 19.904  | ug/l   | 97     |
| 15) Acrylonitrile             | 3.11 | 53   | 107860   | 104.999 | ug/l   | 98     |
| 16) Acetone                   | 2.36 | 43   | 113248   | 79.139  | ug/l   | 100    |
| 17) Carbon Disulfide          | 1.93 | 76   | 402961   | 20.168  | ug/l # | 94     |
| 18) Methyl Acetate            | 2.47 | 43   | 43826    | 17.921  | ug/l   | 93     |
| 19) Methyl tert-butyl Ether   | 2.56 | 73   | 229975   | 18.346  | ug/l   | 95     |
| 20) Methylene Chloride        | 2.35 | 84   | 77727    | 10.900  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 2.43 | 96   | 146102   | 21.317  | ug/l   | 99     |
| 22) Diisopropyl ether         | 2.95 | 45   | 290389   | 18.552  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.36 | 43   | 1027839  | 97.345  | ug/l   | 95     |
| 24) 1,1-Dichloroethane        | 3.02 | 63   | 242353   | 21.106  | ug/l   | 98     |
| 25) 2-Butanone                | 4.54 | 43   | 273693   | 89.520  | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 3.79 | 77   | 137022   | 20.856  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 3.66 | 96   | 222292   | 19.718  | ug/l   | 98     |
| 28) Bromochloromethane        | 3.92 | 49   | 133192   | 20.682  | ug/l   | 92     |
| 29) Tetrahydrofuran           | 4.28 | 42   | 112591   | 91.005  | ug/l   | 99     |
| 30) Chloroform                | 4.07 | 83   | 320131   | 20.080  | ug/l   | 98     |
| 31) Cyclohexane               | 3.89 | 56   | 304444   | 21.297  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 4.29 | 97   | 220406   | 20.817  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 4.48 | 75   | 250750   | 20.045  | ug/l   | 96     |
| 37) Ethyl Acetate             | 4.32 | 43   | 94763    | 18.554  | ug/l # | 79     |
| 38) Carbon Tetrachloride      | 4.19 | 117  | 195142   | 22.142  | ug/l   | 97     |

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 Sample : VSTDIC020  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

Quant Time: May 17 05:02:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 04:56:17 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.64  | 83   | 294811   | 19.587  | ug/l   | 95       |
| 40) Benzene                    | 4.83  | 78   | 716409   | 21.023  | ug/l   | 98       |
| 41) Methacrylonitrile          | 4.94  | 41   | 46121    | 17.224  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 5.14  | 62   | 132953   | 19.564  | ug/l   | 92       |
| 43) Isopropyl Acetate          | 7.12  | 43   | 115545   | 17.462  | ug/l   | 96       |
| 44) Trichloroethene            | 5.69  | 130  | 197143   | 20.583  | ug/l   | 91       |
| 45) 1,2-Dichloropropane        | 6.42  | 63   | 165446   | 19.232  | ug/l   | 93       |
| 46) Dibromomethane             | 6.27  | 93   | 96849    | 19.480  | ug/l   | 97       |
| 47) Bromodichloromethane       | 6.56  | 83   | 208895   | 20.240  | ug/l # | 96       |
| 48) Methyl methacrylate        | 6.89  | 41   | 62668    | 18.120  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 6.89  | 88   | 15713    | 354.720 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone       | 8.41  | 43   | 422305   | 93.370  | ug/l   | 96       |
| 52) Toluene                    | 7.79  | 92   | 366347   | 20.498  | ug/l   | 92       |
| 53) t-1,3-Dichloropropene      | 8.43  | 75   | 163020   | 19.306  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.47  | 75   | 240674   | 20.361  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 8.64  | 97   | 107092   | 20.238  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.77  | 69   | 116736   | 18.517  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.00  | 76   | 168555   | 18.701  | ug/l   | 94       |
| 58) 2-Chloroethyl Vinyl ether  | 7.46  | 63   | 201763   | 98.321  | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.63  | 43   | 282955   | 85.565  | ug/l   | 95       |
| 60) Dibromochloromethane       | 8.87  | 129  | 129655   | 18.799  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.14  | 107  | 104431   | 18.580  | ug/l   | 92       |
| 64) Tetrachloroethene          | 8.31  | 164  | 149282   | 20.752  | ug/l   | 99       |
| 65) Chlorobenzene              | 9.94  | 112  | 364086   | 20.415  | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.07 | 131  | 147022   | 20.535  | ug/l   | 97       |
| 67) Ethyl Benzene              | 10.04 | 91   | 648634   | 20.936  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.27 | 106  | 468589   | 40.241  | ug/l   | 84       |
| 69) o-Xylene                   | 10.83 | 106  | 244550   | 20.390  | ug/l   | 98       |
| 70) Styrene                    | 10.90 | 104  | 375398   | 20.592  | ug/l   | 97       |
| 71) Bromoform                  | 10.89 | 173  | 70842    | 19.756  | ug/l # | 92       |
| 73) Isopropylbenzene           | 11.22 | 105  | 713444   | 21.382  | ug/l   | 96       |
| 74) N-amyl acetate             | 11.45 | 43   | 182056   | 17.686  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.77 | 83   | 133809   | 19.623  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 11.87 | 75   | 87577    | 19.546  | ug/l   | 83       |
| 77) Bromobenzene               | 11.59 | 156  | 158405   | 19.099  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.68 | 91   | 817681   | 20.707  | ug/l   | 89       |
| 79) 2-Chlorotoluene            | 11.80 | 91   | 449900   | 20.216  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 563277   | 21.053  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-buten | 11.94 | 75   | 49414    | 19.850  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 453882   | 20.682  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.20 | 119  | 570504   | 21.018  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 544773   | 21.038  | ug/l   | 93       |
| 85) sec-Butylbenzene           | 12.38 | 105  | 751700   | 20.635  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 12.52 | 119  | 641018   | 20.880  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 12.54 | 146  | 301547   | 20.096  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.63 | 146  | 284014   | 20.169  | ug/l   | 95       |
| 89) n-Butylbenzene             | 12.90 | 91   | 620370   | 20.496  | ug/l   | 89       |
| 90) Hexachloroethane           | 12.98 | 117  | 148806   | 20.206  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 13.01 | 146  | 267505   | 19.999  | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 15250    | 18.747  | ug/l   | 97       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051619\  
Data File : VF062620.D  
Acq On : 16 May 2019 11:32  
Operator : FY/SY  
Sample : VSTDICC020  
Misc : 5.00g/5mL/MSVOA F/SOIL  
ALS Vial : 5 Sample Multiplier: 1

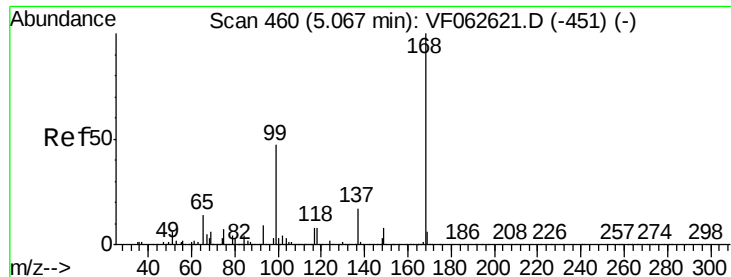
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICC020

Quant Time: May 17 05:02:24 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 17 04:56:17 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.24 | 180  | 190838   | 19.932 | ug/l  | 93       |
| 94) Hexachlorobutadiene    | 14.23 | 225  | 134575   | 20.141 | ug/l  | 95       |
| 95) Naphthalene            | 14.50 | 128  | 300591   | 17.282 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.64 | 180  | 176366   | 19.447 | ug/l  | 98       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

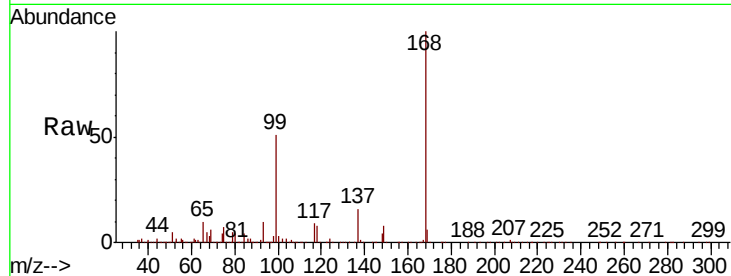
VSTDIC020

Tot Ion:168 Resp: 780572

Ion Ratio Lower Upper

168 100

99 51.2 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

250000

200000

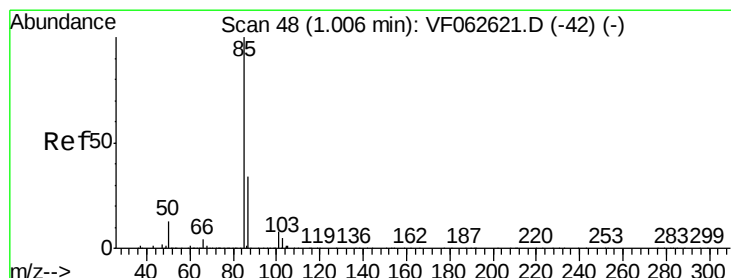
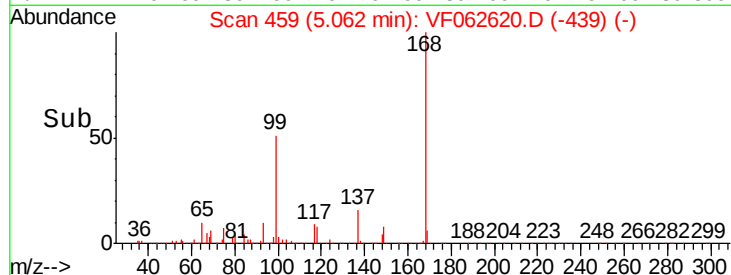
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.609 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062620.D

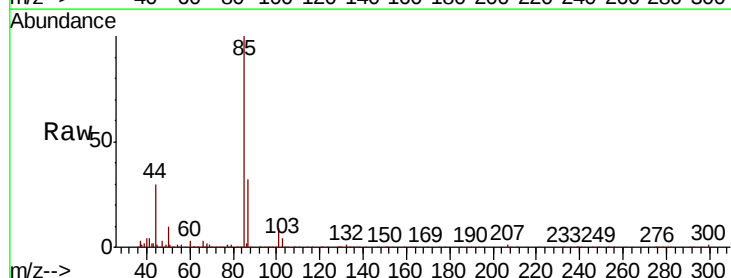
Acq: 16 May 2019 11:32

Tgt Ion: 85 Resp: 208299

Ion Ratio Lower Upper

85 100

87 31.7 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

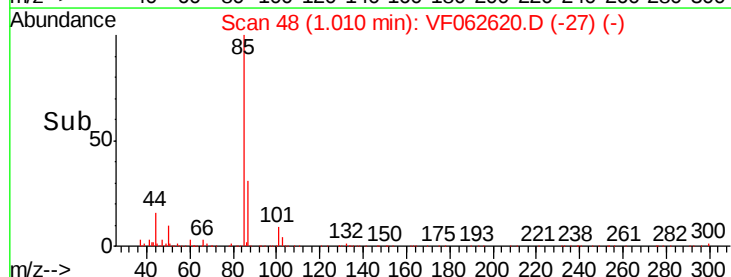
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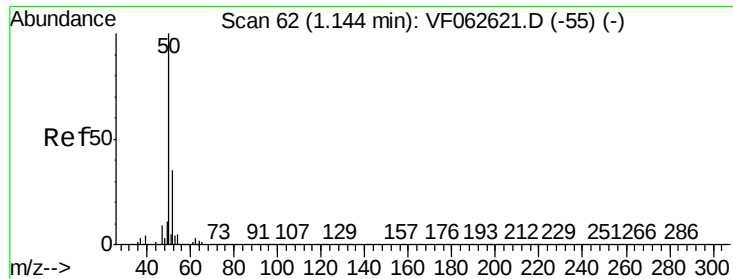
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20000

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Time-->





#3

Chloromethane

Concen: 19.978 ug/l

RT: 1.15 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

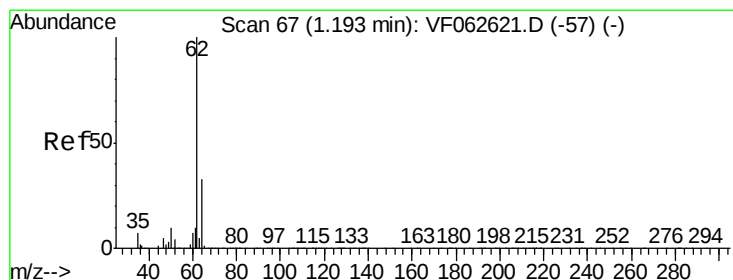
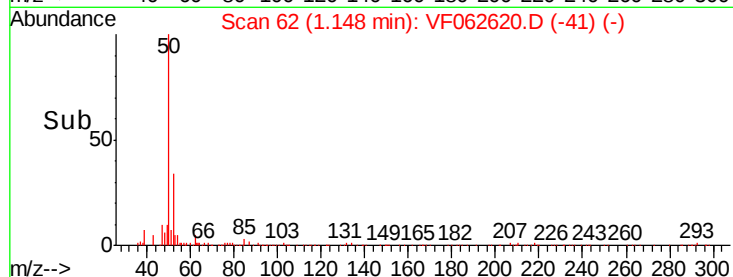
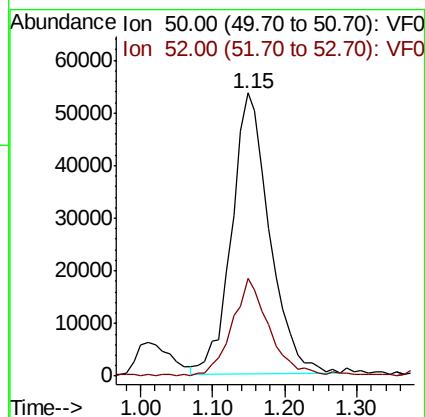
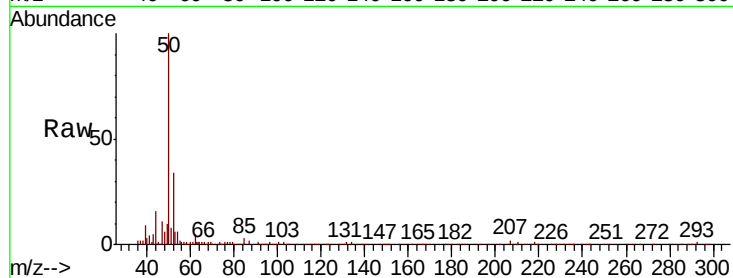
VSTDIC020

Tot Ion: 50 Resp: 195403

Ion Ratio Lower Upper

50 100

52 34.4 27.5 41.3



#4

Vinyl Chloride

Concen: 20.378 ug/l

RT: 1.20 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062620.D

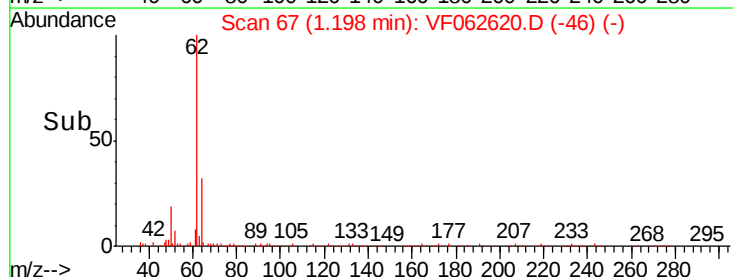
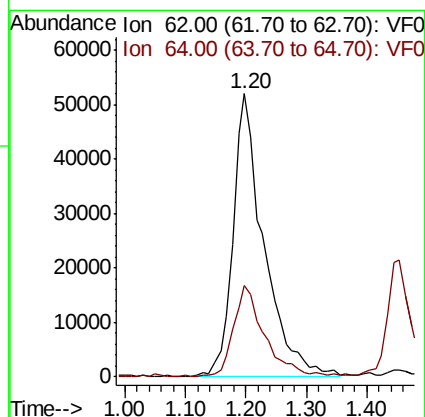
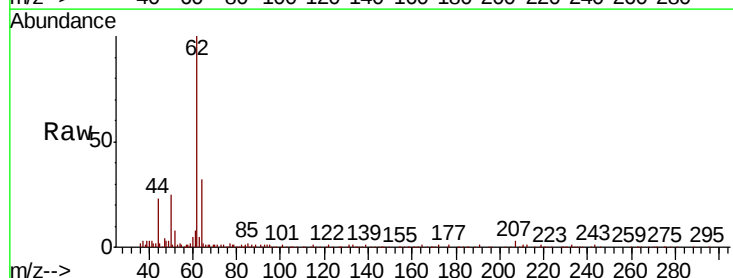
Acq: 16 May 2019 11:32

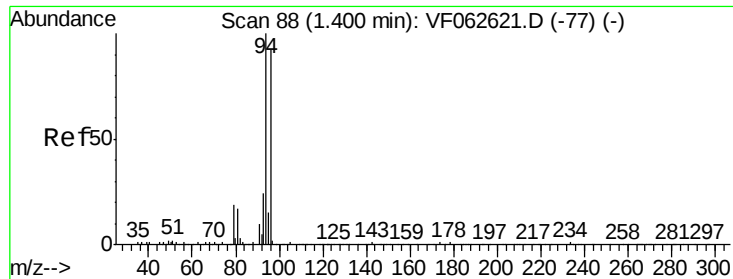
Tgt Ion: 62 Resp: 183468

Ion Ratio Lower Upper

62 100

64 32.3 26.7 40.1





#5

Bromomethane

Concen: 18.181 ug/l

RT: 1.40 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

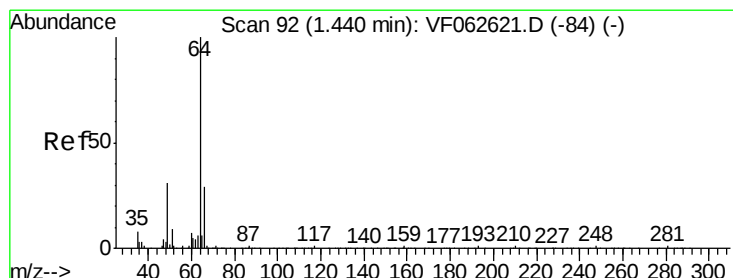
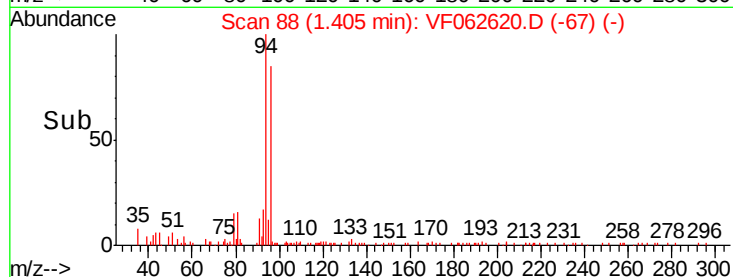
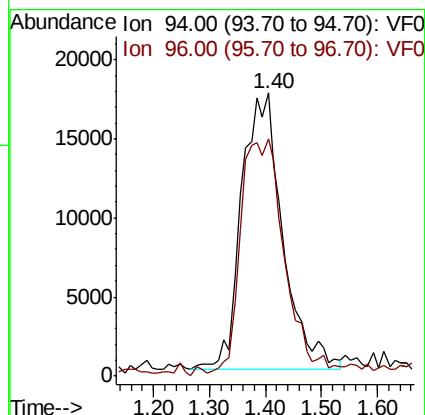
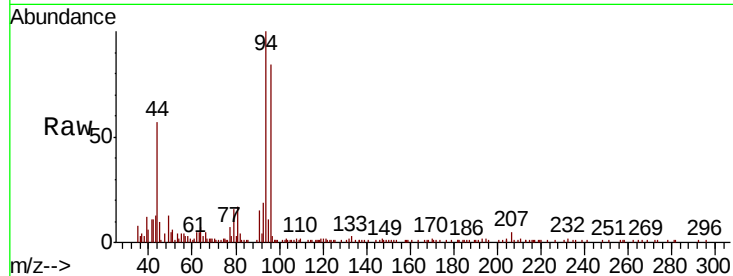
VSTDIC020

Tot Ion: 94 Resp: 89546

Ion Ratio Lower Upper

94 100

96 84.0 73.2 109.8



#6

Chloroethane

Concen: 17.805 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF062620.D

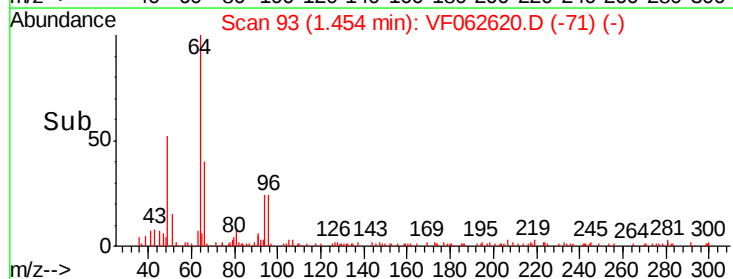
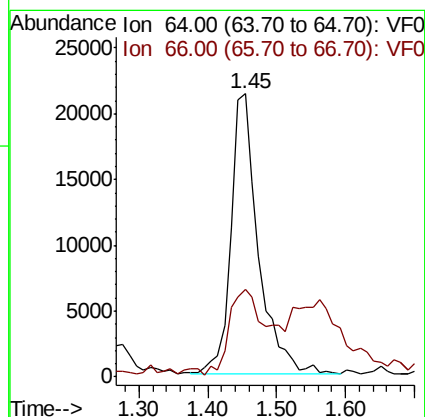
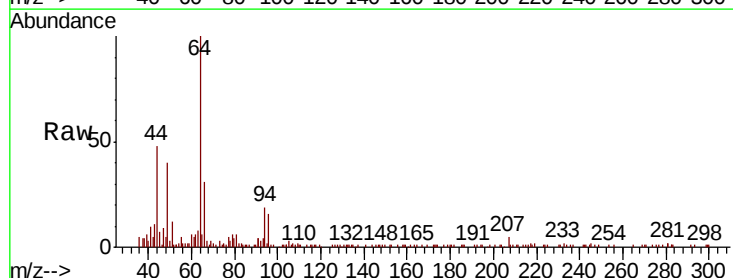
Acq: 16 May 2019 11:32

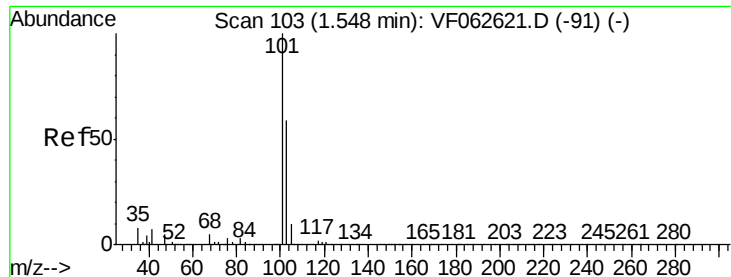
Tgt Ion: 64 Resp: 58874

Ion Ratio Lower Upper

64 100

66 30.8 23.4 35.2



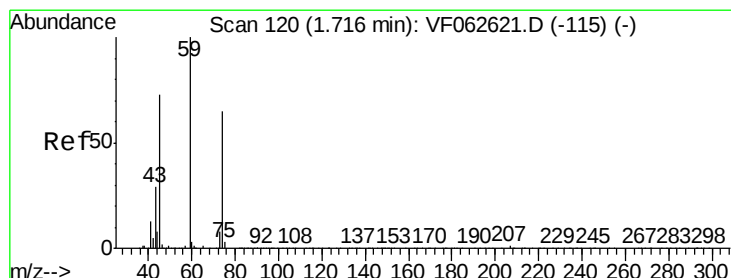
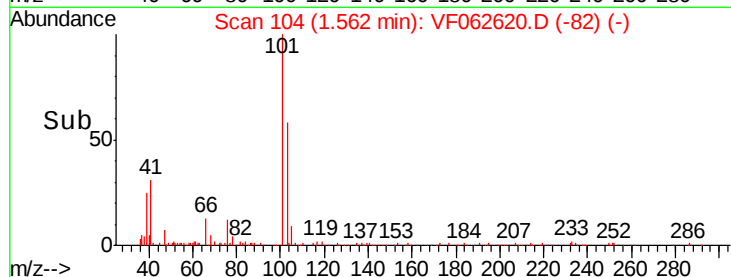
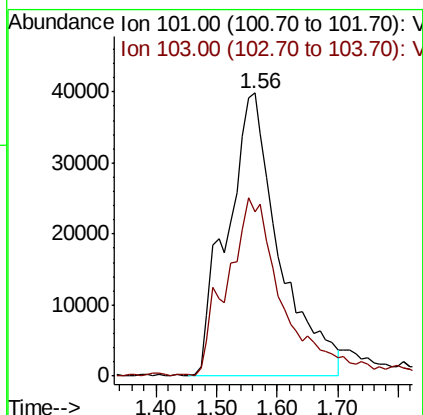
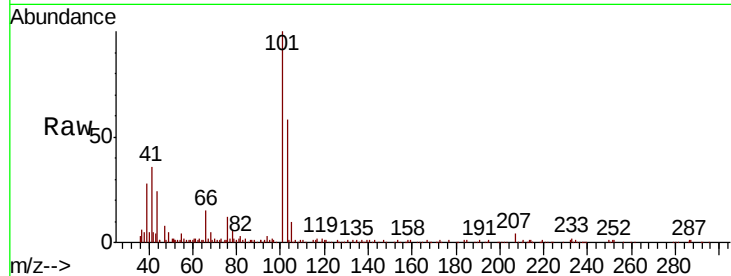


#7

Trichlorofluoromethane  
Concen: 20.999 ug/l  
RT: 1.56 min Scan# 104  
Delta R.T. 0.01 min  
Lab File: VF062620.D  
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Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

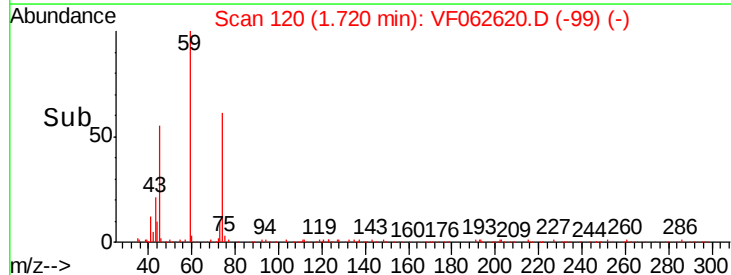
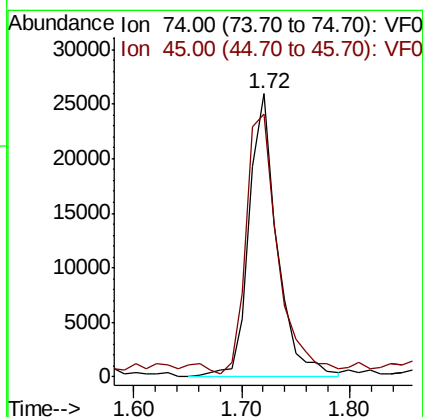
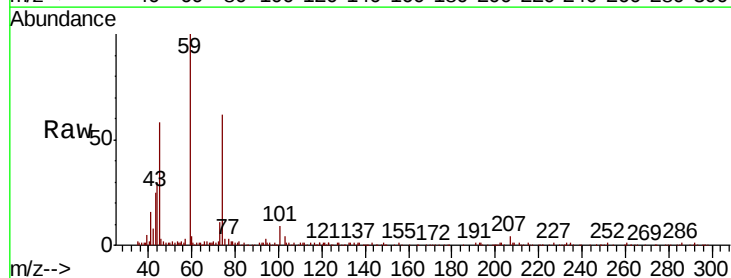
Tot Ion:101 Resp: 239165  
Ion Ratio Lower Upper  
101 100  
103 58.2 47.3 70.9

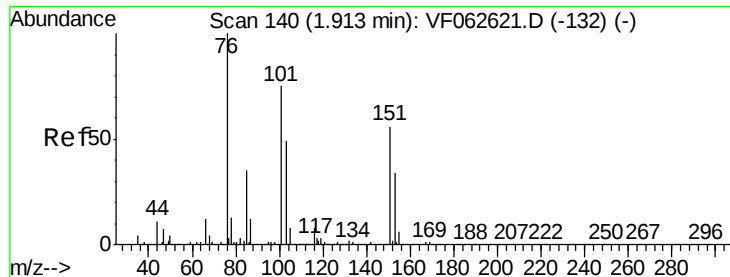


#8

Diethyl Ether  
Concen: 19.590 ug/l  
RT: 1.72 min Scan# 120  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion: 74 Resp: 46916  
Ion Ratio Lower Upper  
74 100  
45 93.0 57.0 170.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.538 ug/l

RT: 1.92 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

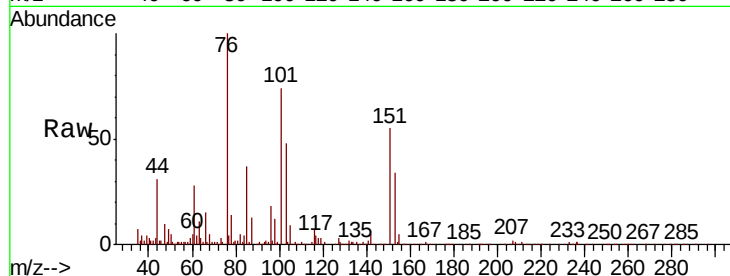
Tot Ion:101 Resp: 150394

Ion Ratio Lower Upper

101 100

85 49.9 37.1 55.7

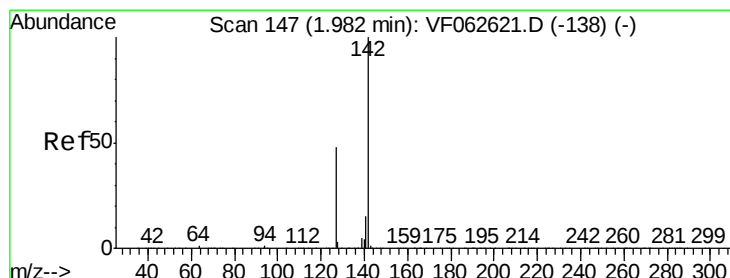
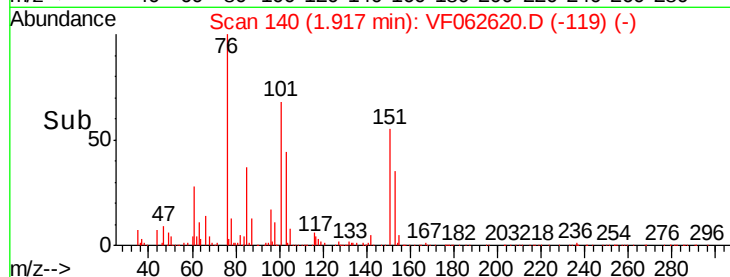
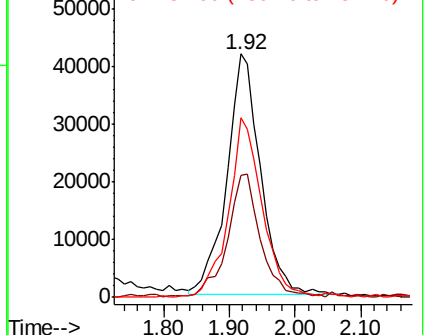
151 73.7 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 19.883 ug/l

RT: 2.00 min Scan# 148

Delta R.T. 0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

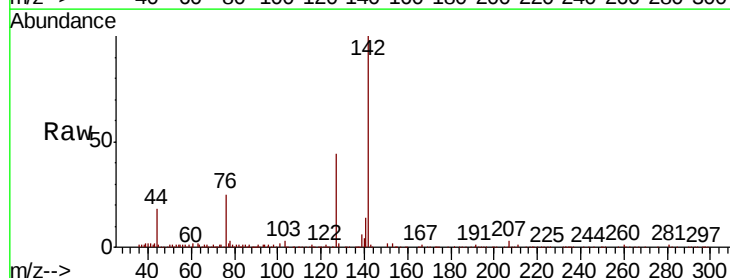
Tgt Ion:142 Resp: 300655

Ion Ratio Lower Upper

142 100

127 43.8 38.1 57.1

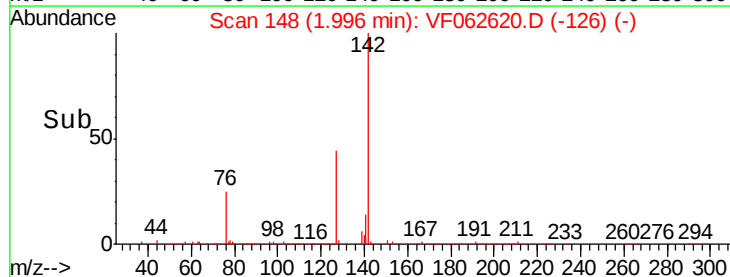
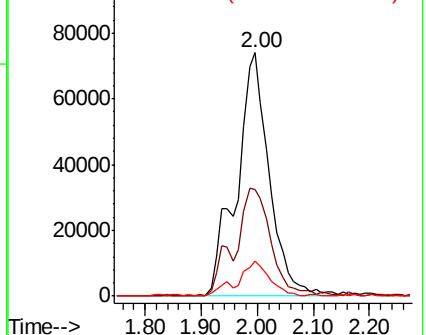
141 14.5 11.7 17.5

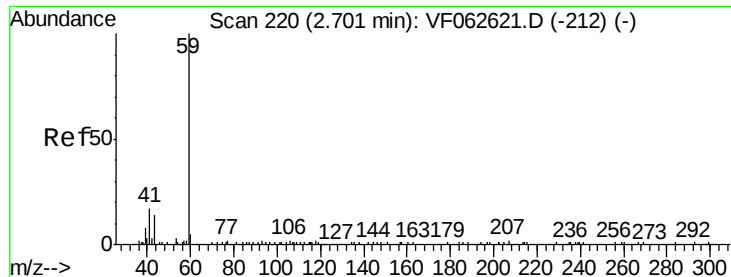


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

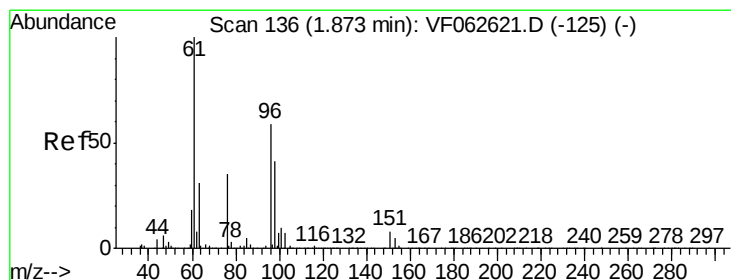
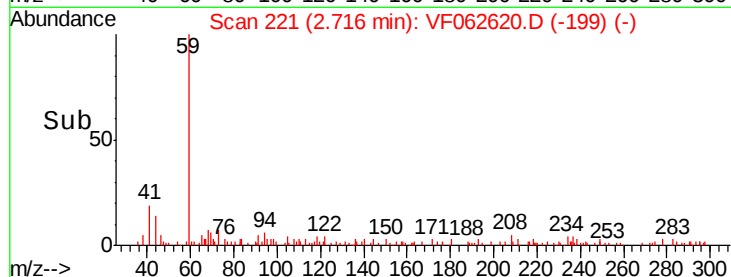
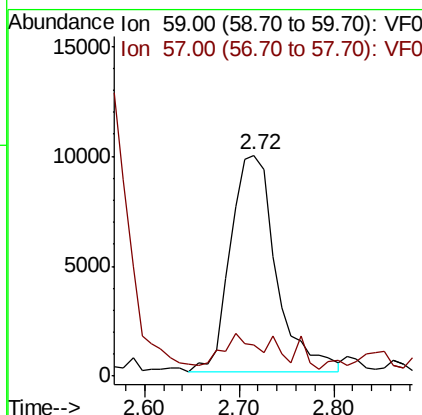
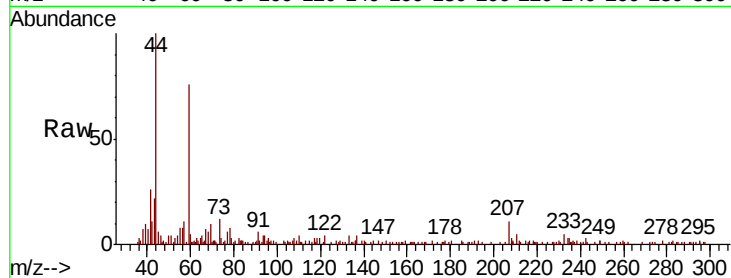




#11  
Tert butyl alcohol  
Concen: 90.506 ug/l  
RT: 2.72 min Scan# 221  
Delta R.T. 0.01 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

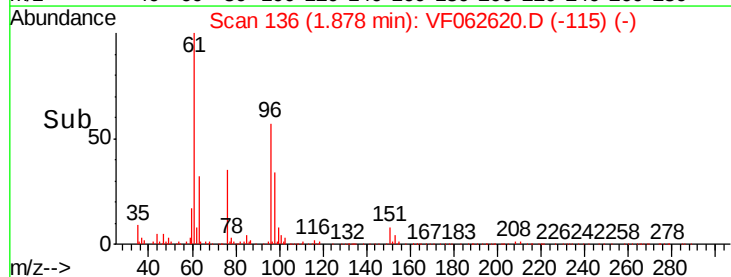
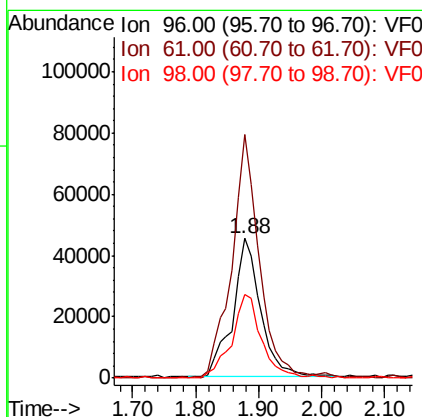
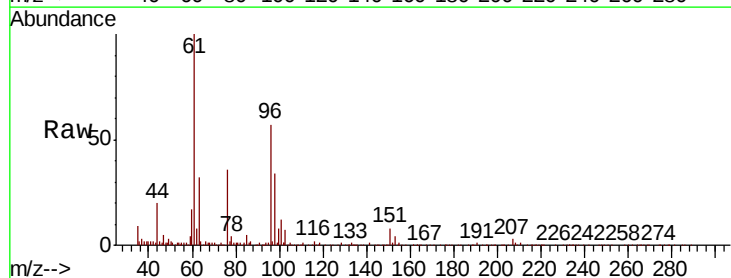
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

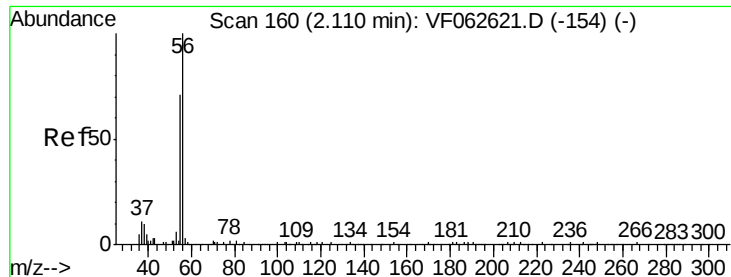
Tot Ion: 59 Resp: 32959  
Ion Ratio Lower Upper  
59 100  
57 13.9 9.3 13.9#



#12  
1,1-Dichloroethene  
Concen: 19.626 ug/l  
RT: 1.88 min Scan# 136  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion: 96 Resp: 137621  
Ion Ratio Lower Upper  
96 100  
61 174.3 134.3 201.5  
98 59.8 55.0 82.6





#13

Acrolein

Concen: 107.283 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

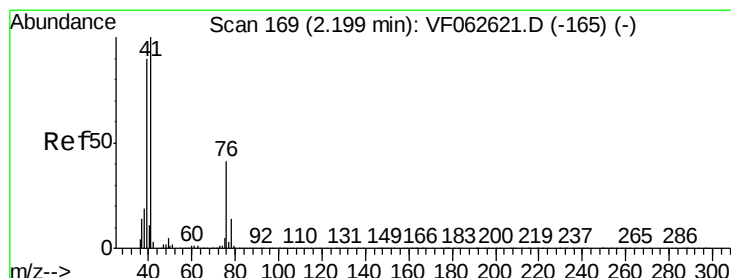
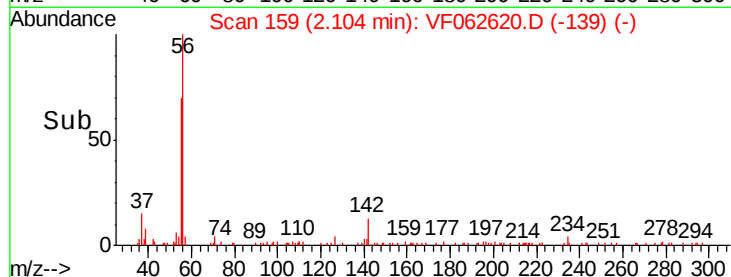
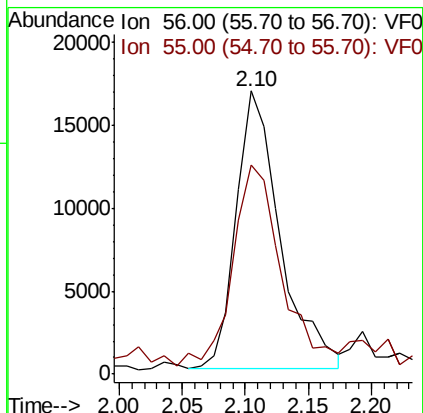
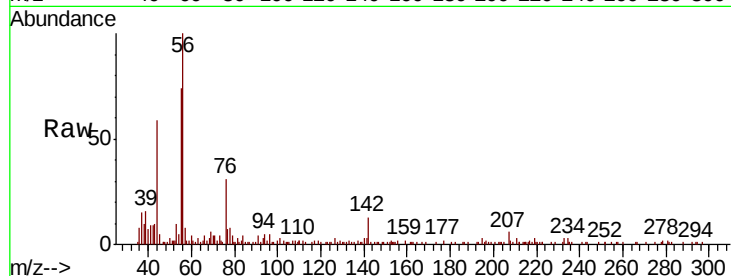
VSTDIC020

Tot Ion: 56 Resp: 40782

Ion Ratio Lower Upper

56 100

55 74.1 59.4 89.0



#14

Allyl chloride

Concen: 19.904 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

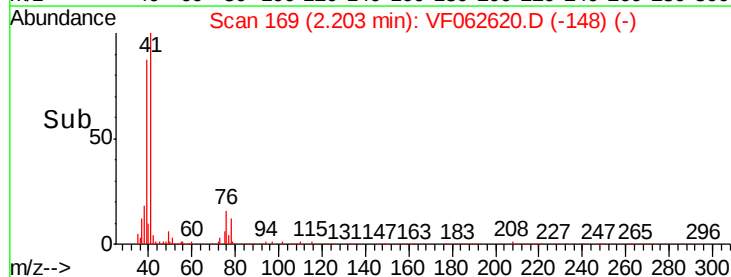
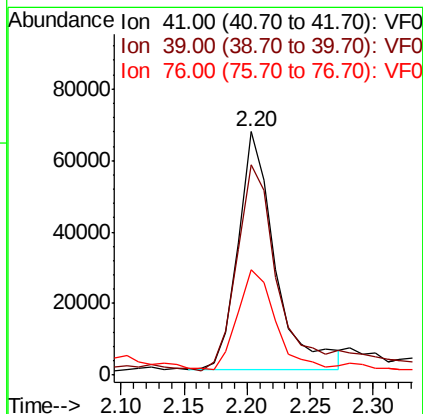
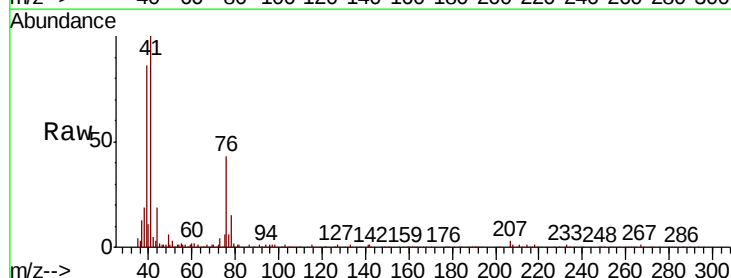
Tgt Ion: 41 Resp: 137134

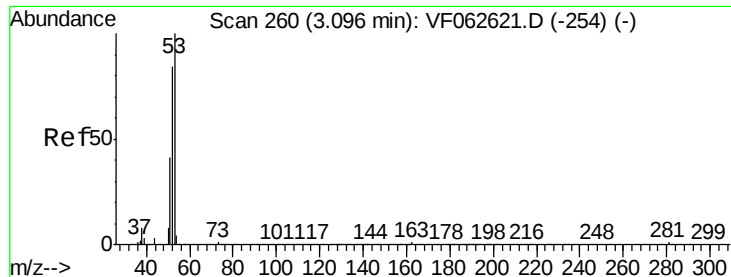
Ion Ratio Lower Upper

41 100

39 86.4 72.0 108.0

76 43.3 34.8 52.2





#15

Acrylonitrile

Concen: 104.999 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

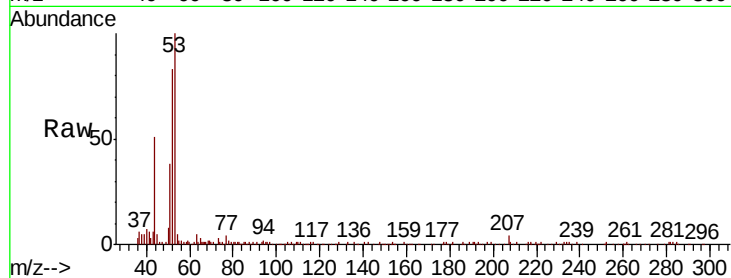
MSVOA\_F

ClientSampleId :

VSTDIC020

Tot Ion: 53 Resp: 107860

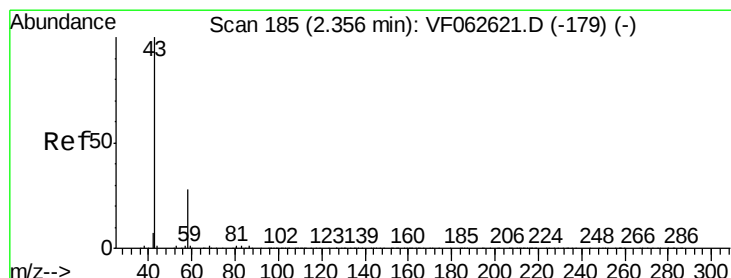
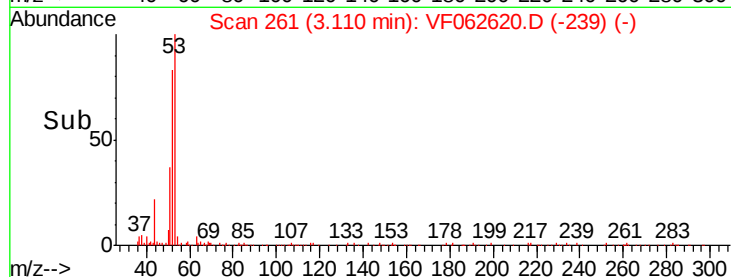
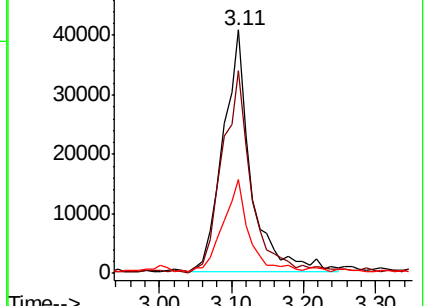
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 83.2  | 67.3  | 100.9 |
| 51  | 38.4  | 33.0  | 49.6  |



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: 79.139 ug/l

RT: 2.36 min Scan# 185

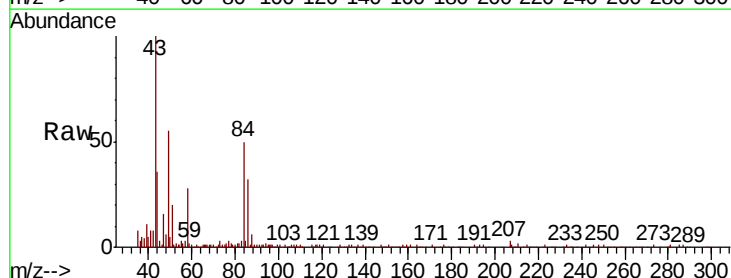
Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

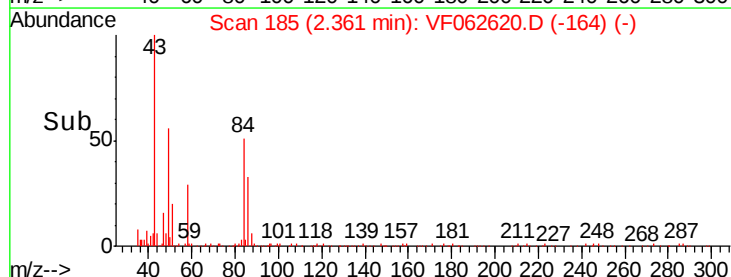
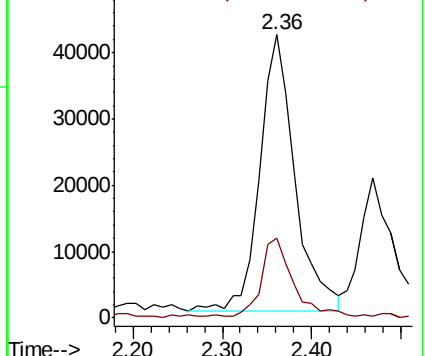
Tgt Ion: 43 Resp: 113248

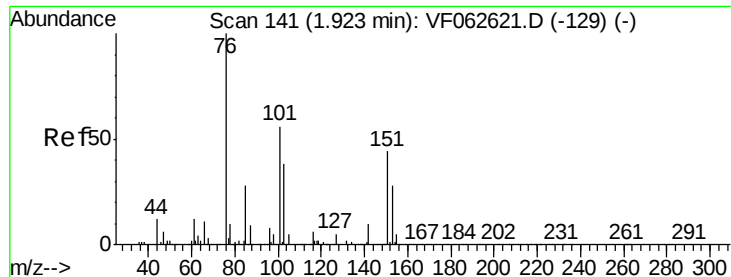
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 28.1  | 22.6  | 33.8  |



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 20.168 ug/l

RT: 1.93 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

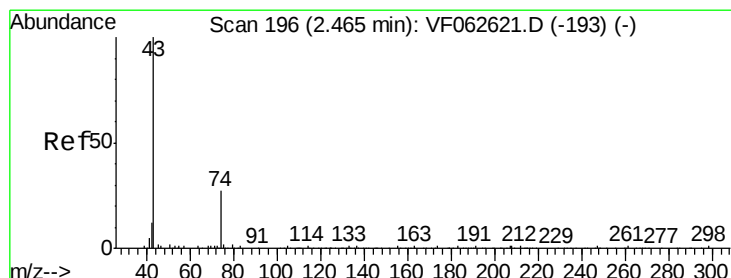
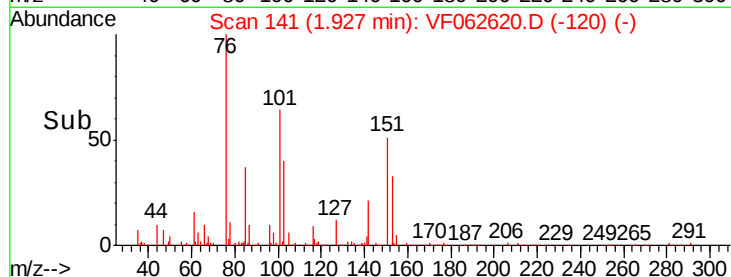
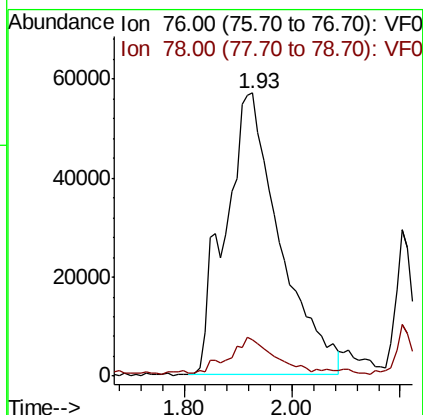
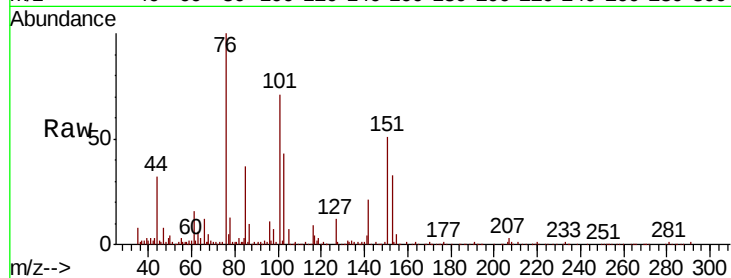
VSTDIC020

Tot Ion: 76 Resp: 402961

Ion Ratio Lower Upper

76 100

78 12.7 8.4 12.6#



#18

Methyl Acetate

Concen: 17.921 ug/l

RT: 2.47 min Scan# 196

Delta R.T. 0.00 min

Lab File: VF062620.D

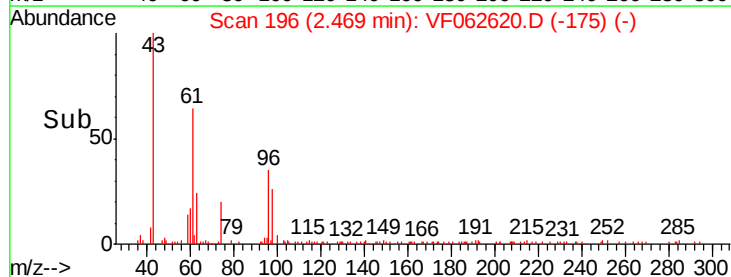
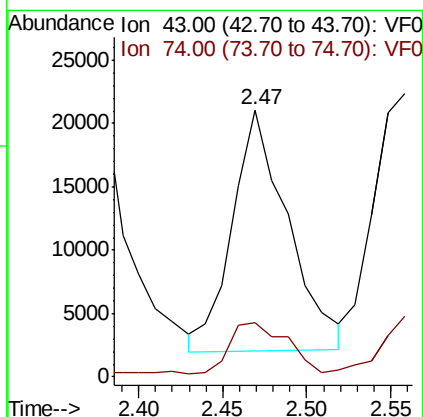
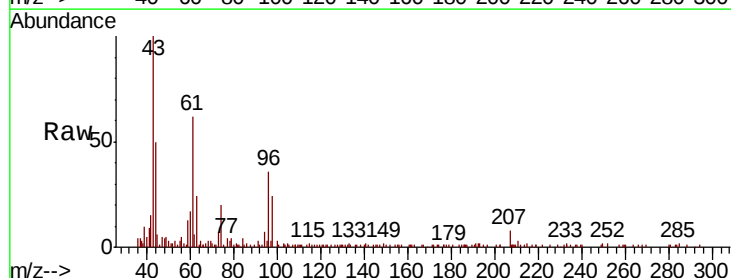
Acq: 16 May 2019 11:32

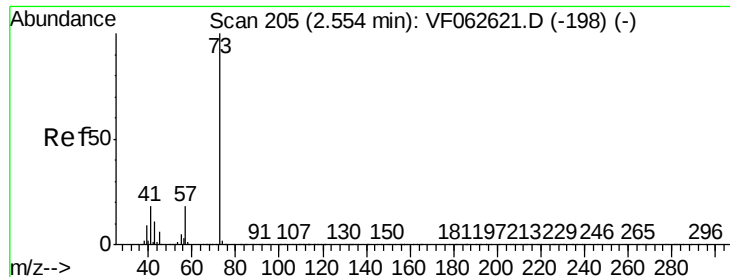
Tgt Ion: 43 Resp: 43826

Ion Ratio Lower Upper

43 100

74 20.4 18.9 28.3



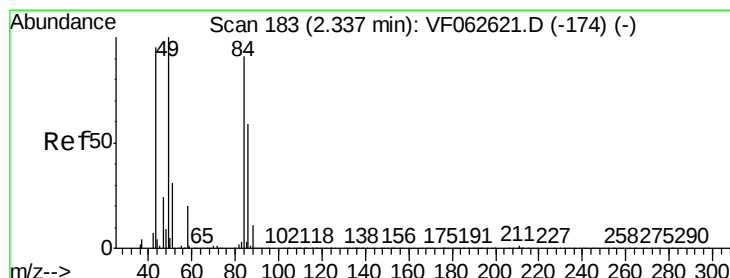
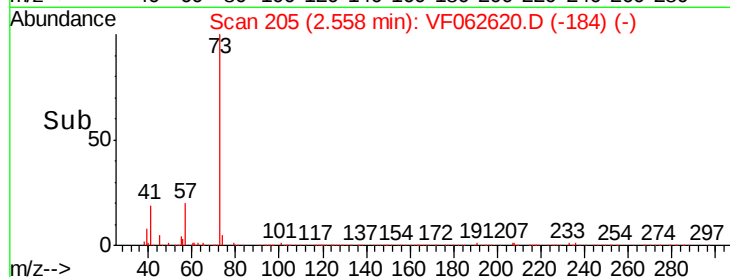
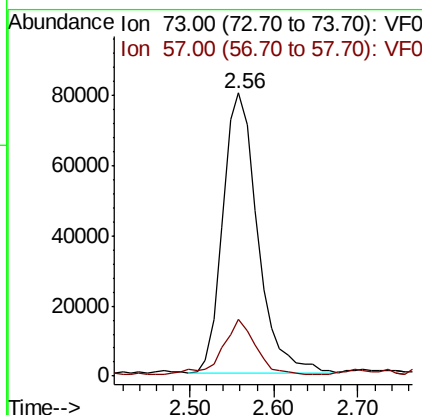
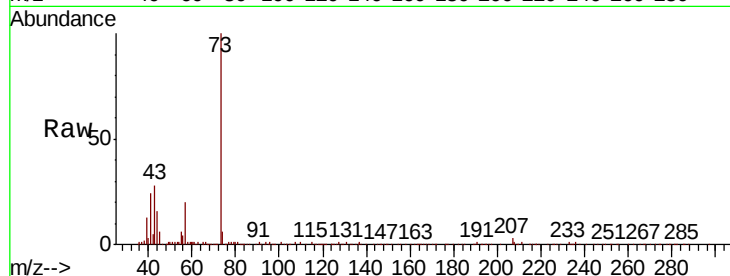


#19

Methyl tert-butyl Ether  
 Concen: 18.346 ug/l  
 RT: 2.56 min Scan# 205  
 Delta R.T. 0.00 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

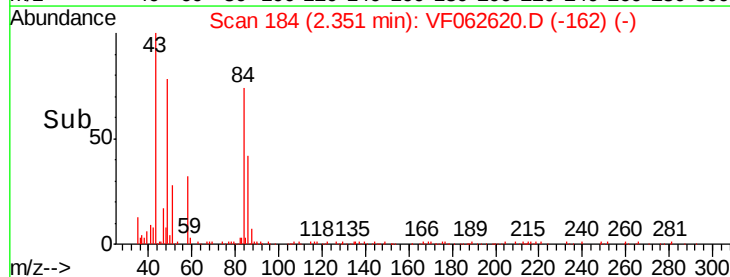
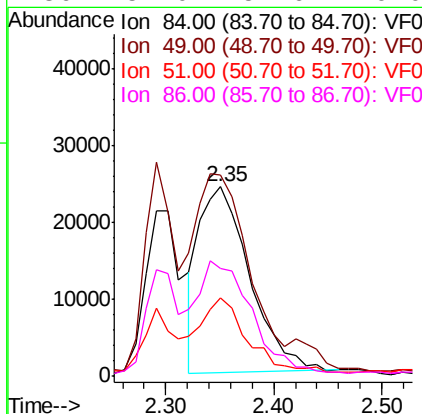
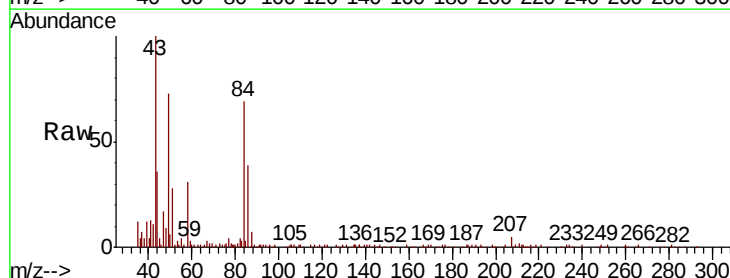
Tot Ion: 73 Resp: 229975  
 Ion Ratio Lower Upper  
 73 100  
 57 20.2 14.2 21.4

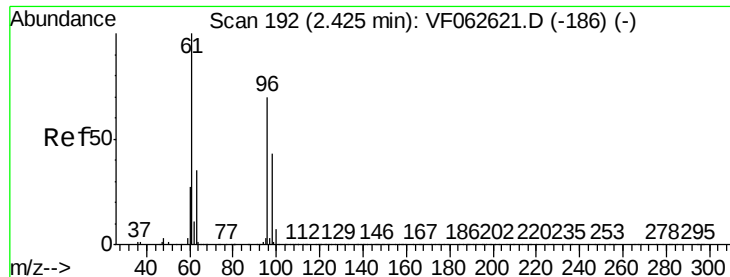


#20

Methylene Chloride  
 Concen: 10.900 ug/l  
 RT: 2.35 min Scan# 184  
 Delta R.T. 0.01 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

Tgt Ion: 84 Resp: 77727  
 Ion Ratio Lower Upper  
 84 100  
 49 106.0 89.8 134.8  
 51 41.0 28.4 42.6  
 86 57.0 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 21.317 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

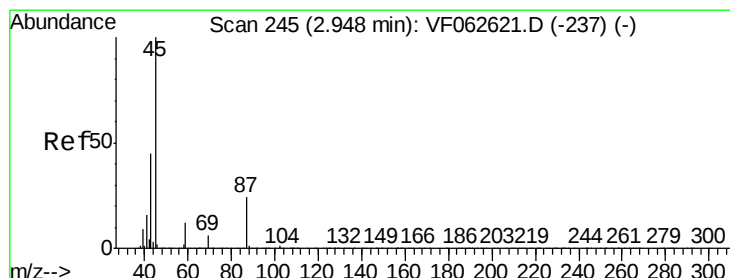
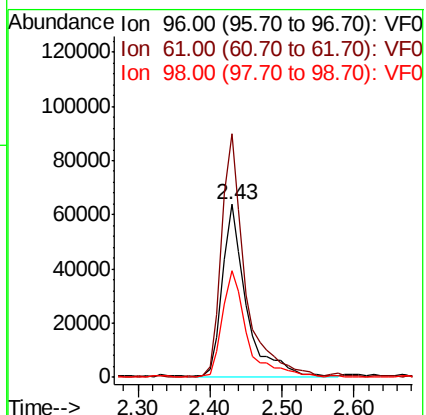
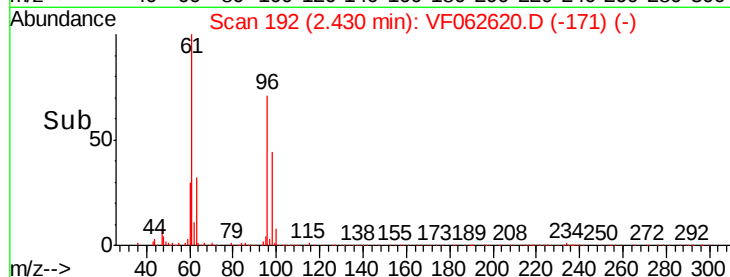
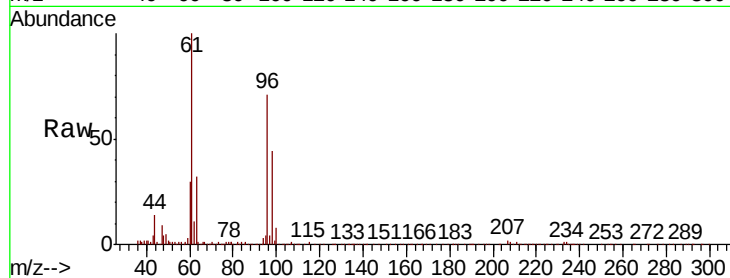
Tot Ion: 96 Resp: 146102

Ion Ratio Lower Upper

96 100

61 141.1 114.6 171.8

98 62.2 49.5 74.3



#22

Diisopropyl ether

Concen: 18.552 ug/l

RT: 2.95 min Scan# 245

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Tgt Ion: 45 Resp: 290389

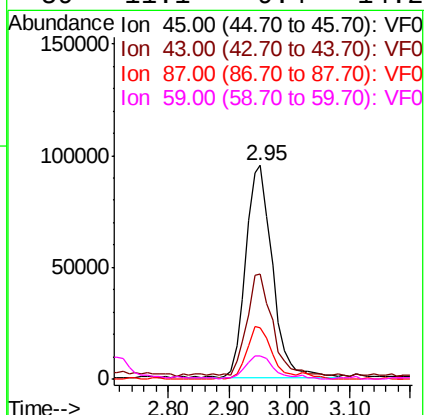
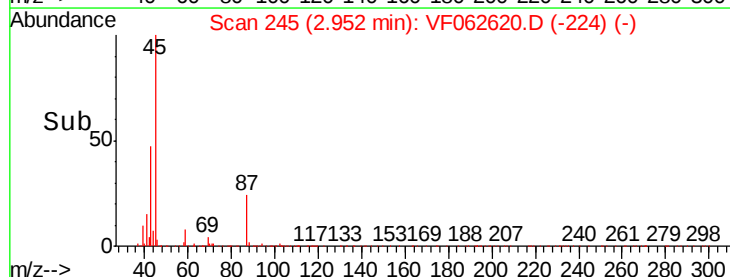
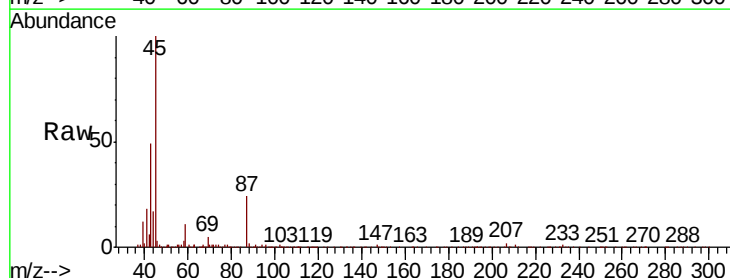
Ion Ratio Lower Upper

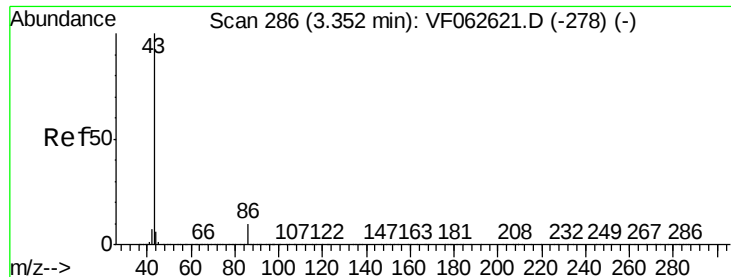
45 100

43 49.1 36.4 54.6

87 24.1 19.3 28.9

59 11.1 9.4 14.2





#23

Vinyl Acetate

Concen: 97.345 ug/l

RT: 3.36 min Scan# 286

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

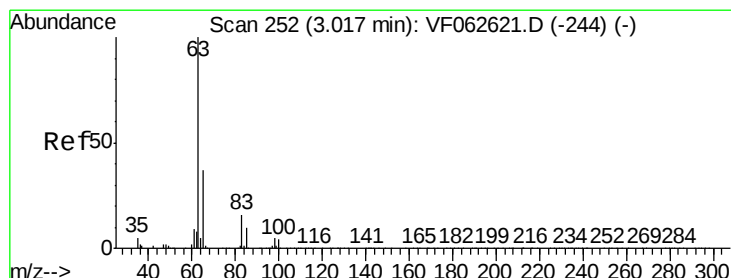
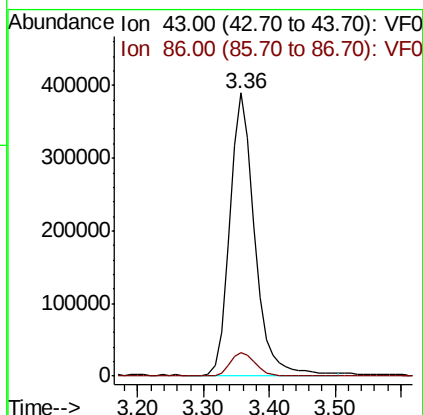
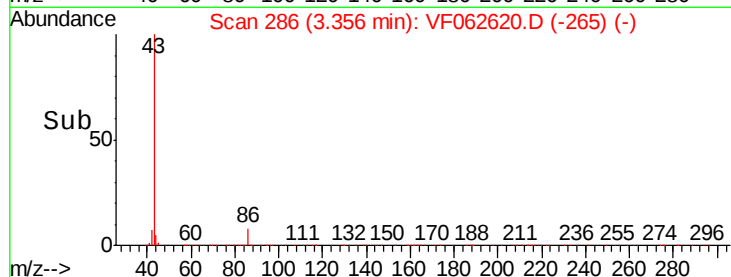
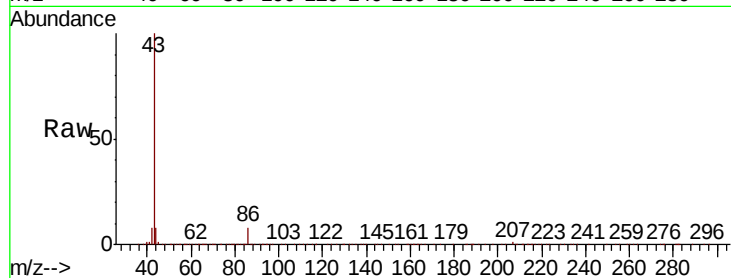
VSTDIC020

Tot Ion: 43 Resp: 1027839

Ion Ratio Lower Upper

43 100

86 8.5 8.2 12.2



#24

1,1-Dichloroethane

Concen: 21.106 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

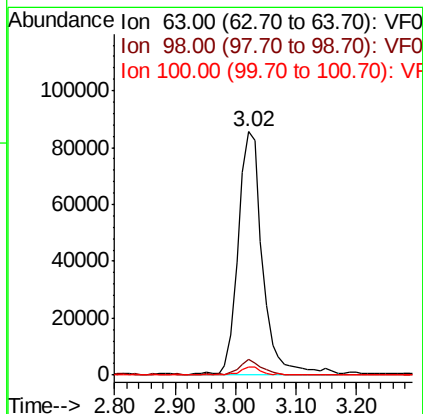
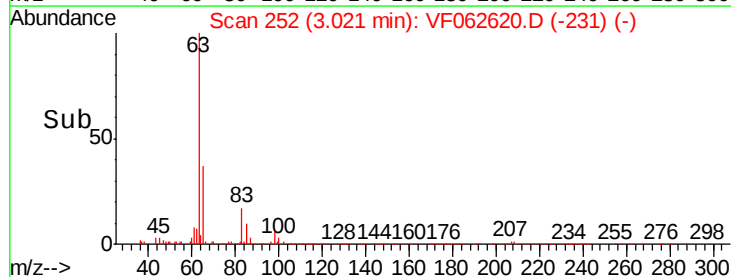
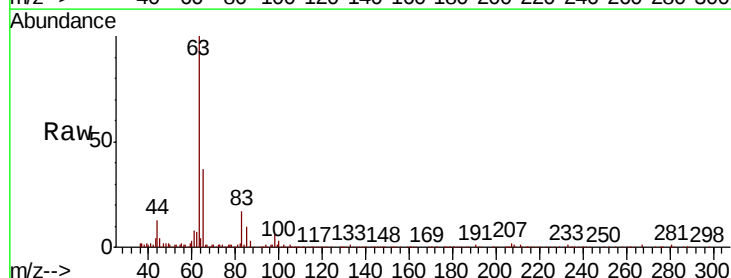
Tgt Ion: 63 Resp: 242353

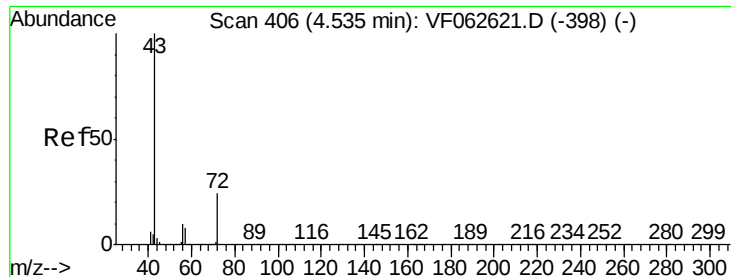
Ion Ratio Lower Upper

63 100

98 6.4 2.8 8.3

100 3.3 1.9 5.7

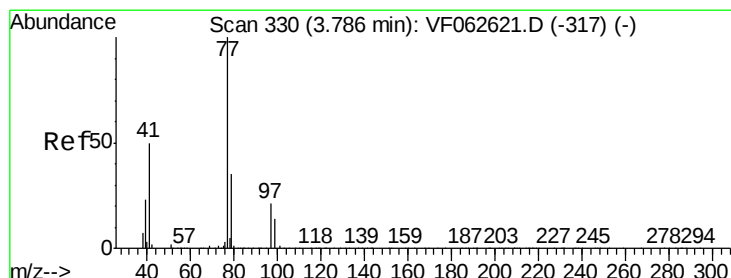
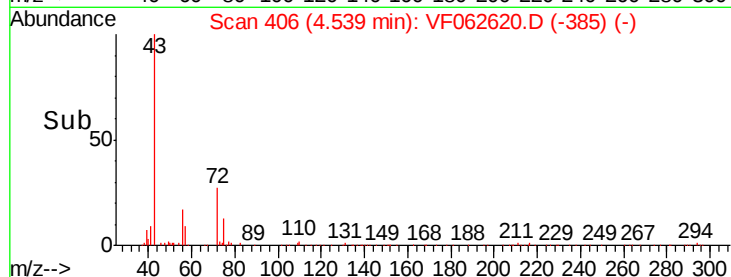
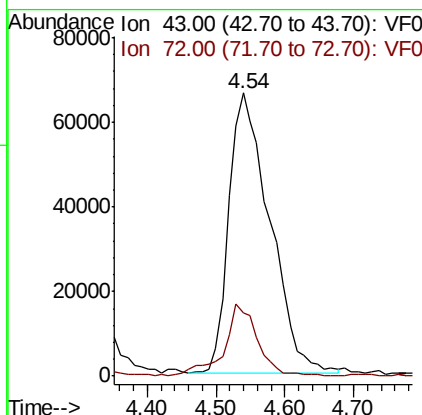
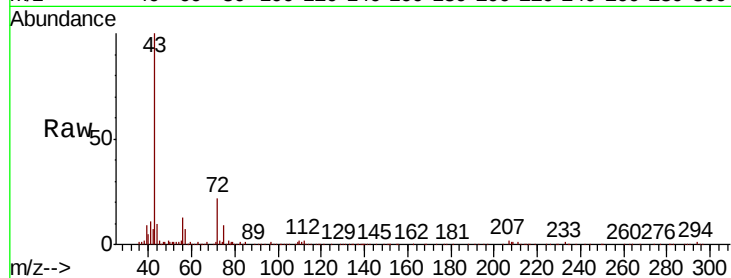




#25  
2-Butanone  
Concen: 89.520 ug/l  
RT: 4.54 min Scan# 406  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

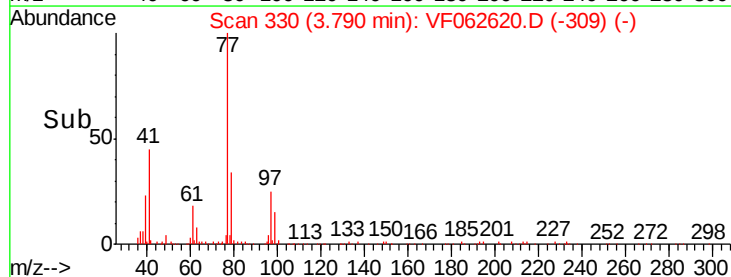
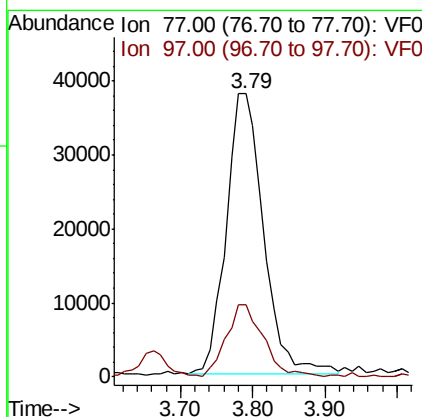
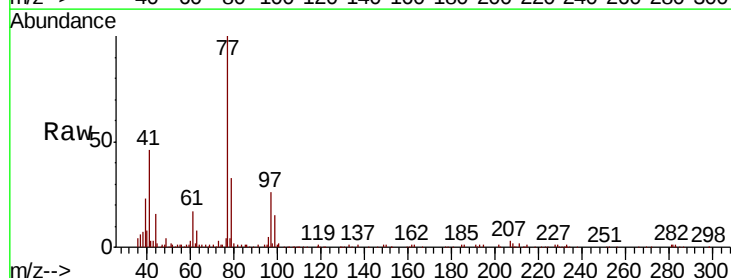
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

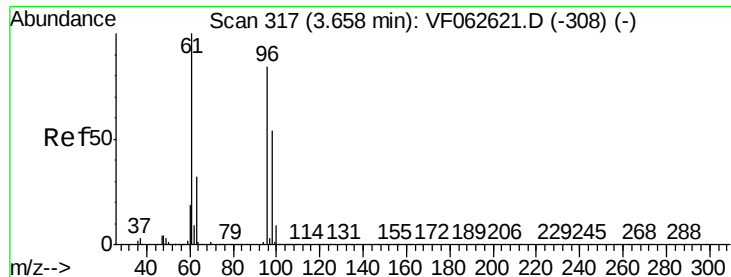
Tot Ion: 43 Resp: 273693  
Ion Ratio Lower Upper  
43 100  
72 22.1 20.1 30.1



#26  
2,2-Dichloropropane  
Concen: 20.856 ug/l  
RT: 3.79 min Scan# 330  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion: 77 Resp: 137022  
Ion Ratio Lower Upper  
77 100  
97 25.5 14.1 42.4



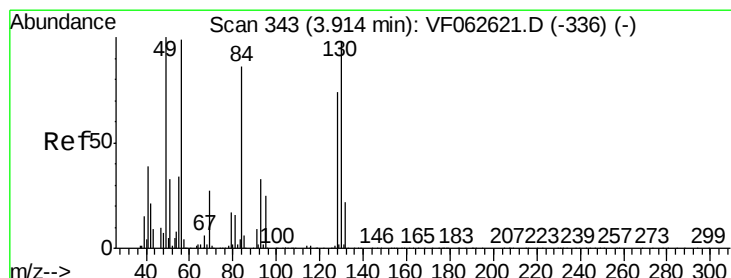
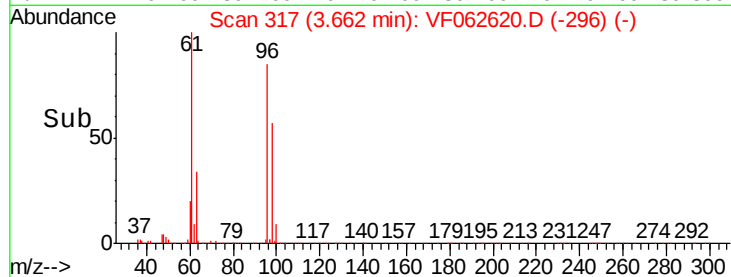
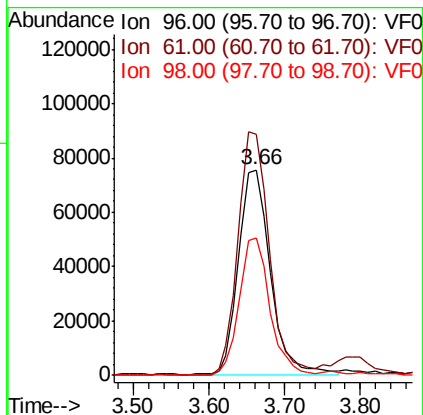
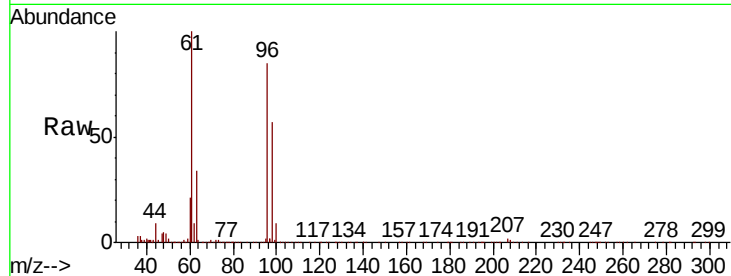


#27

cis-1,2-Dichloroethene  
Concen: 19.718 ug/l  
RT: 3.66 min Scan# 317  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

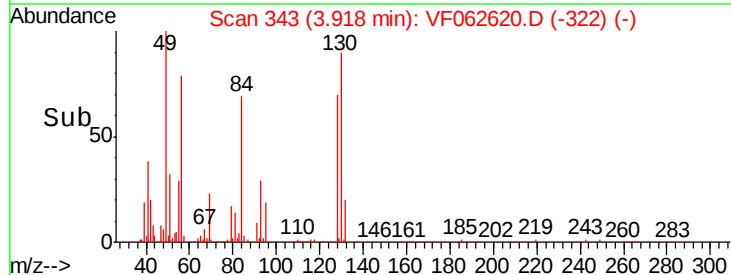
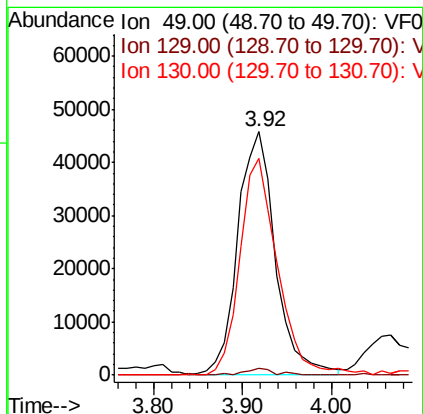
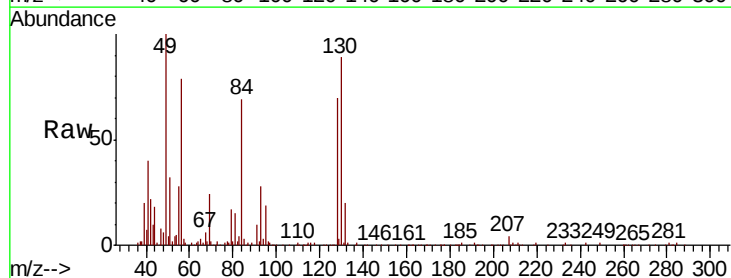
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 117.3 | 0.0   | 237.4 |
| 98      | 66.5  | 0.0   | 129.0 |

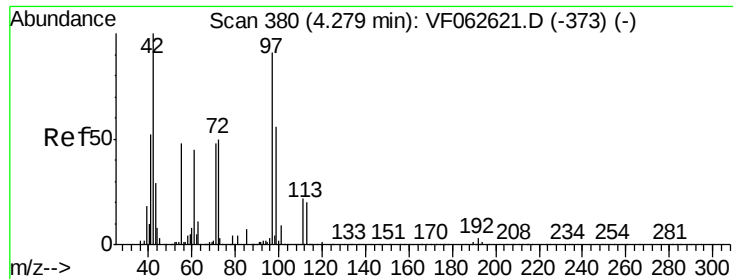


#28

Bromochloromethane  
Concen: 20.682 ug/l  
RT: 3.92 min Scan# 343  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.6   | 0.0   | 4.0   |
| 130     | 89.3  | 77.8  | 116.8 |

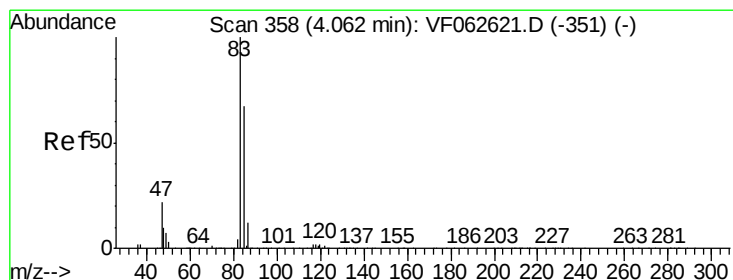
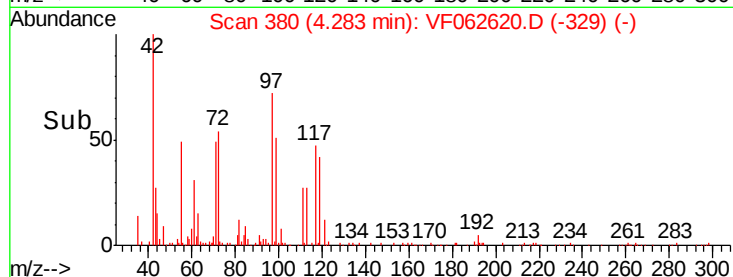
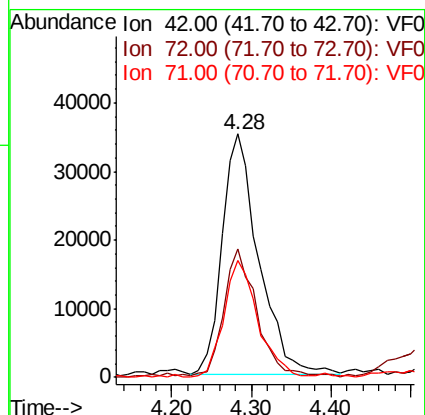
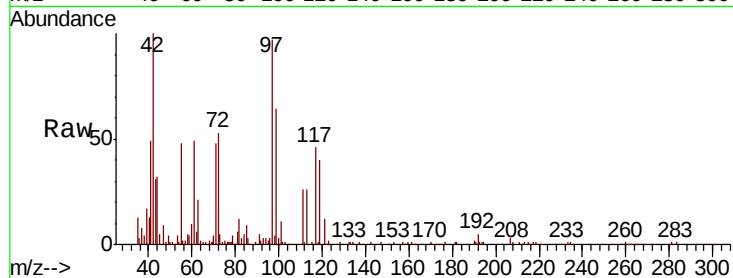




#29  
Tetrahydrofuran  
Concen: 91.005 ug/l  
RT: 4.28 min Scan# 380  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

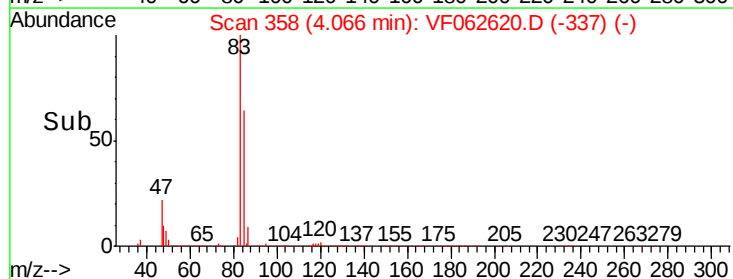
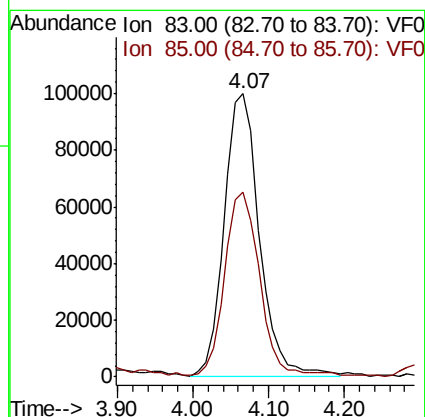
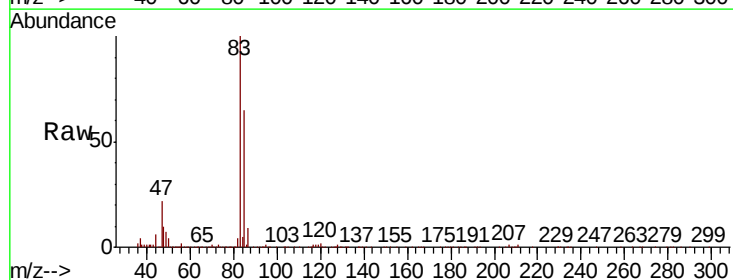
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

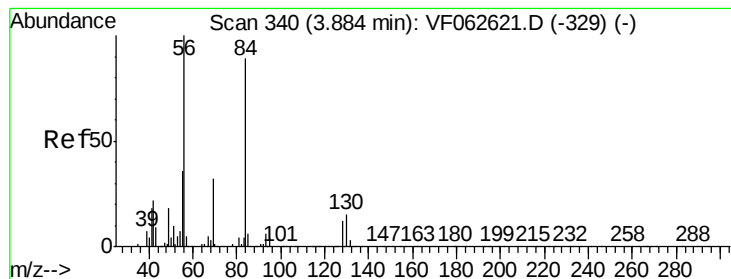
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 48.1  | 38.2  | 57.2  |
| 71      | 45.3  | 35.8  | 53.6  |



#30  
Chloroform  
Concen: 20.080 ug/l  
RT: 4.07 min Scan# 358  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.3  | 53.6  | 80.4  |





#31

Cyclohexane

Concen: 21.297 ug/l

RT: 3.89 min Scan# 340

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

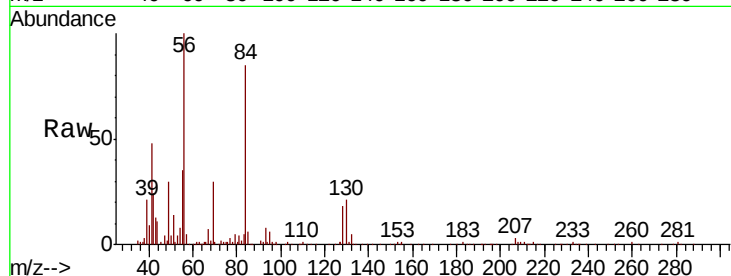
Tot Ion: 56 Resp: 304444

Ion Ratio Lower Upper

56 100

69 30.4 25.3 37.9

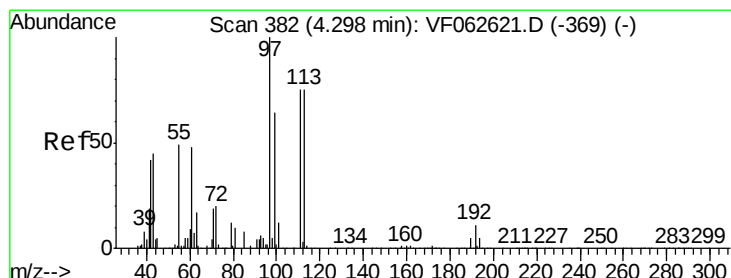
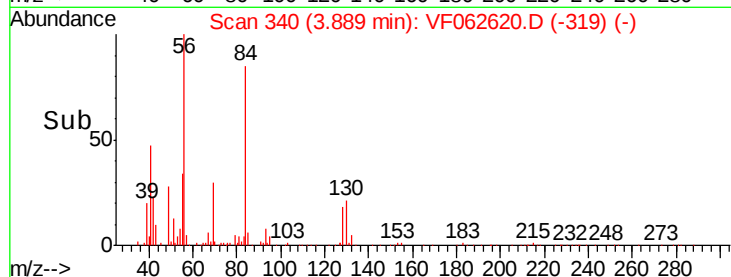
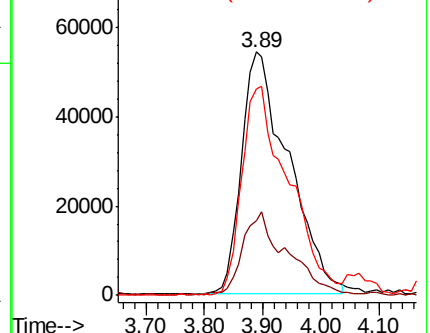
84 84.8 71.0 106.4



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 20.817 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

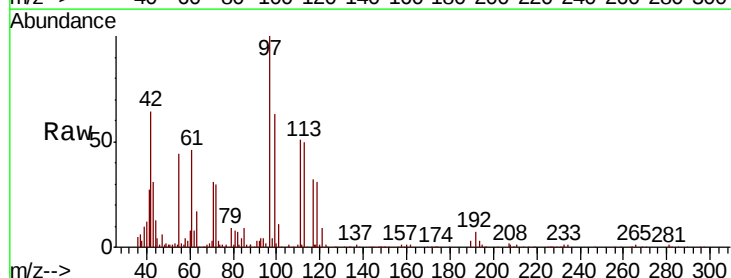
Tgt Ion: 97 Resp: 220406

Ion Ratio Lower Upper

97 100

99 62.6 51.3 76.9

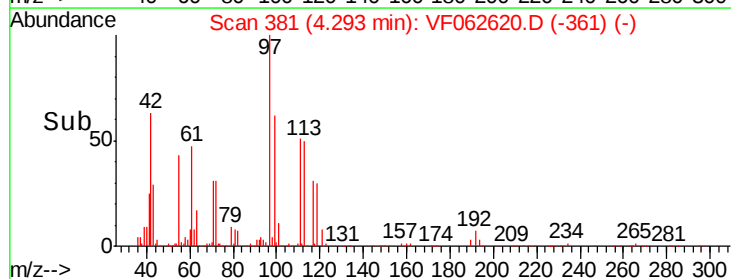
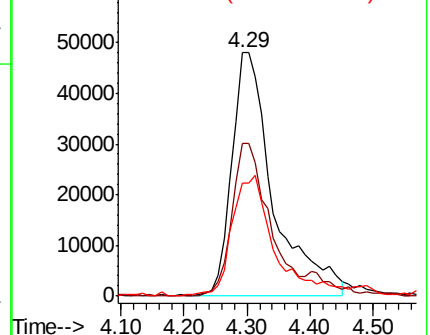
61 46.2 38.2 57.2

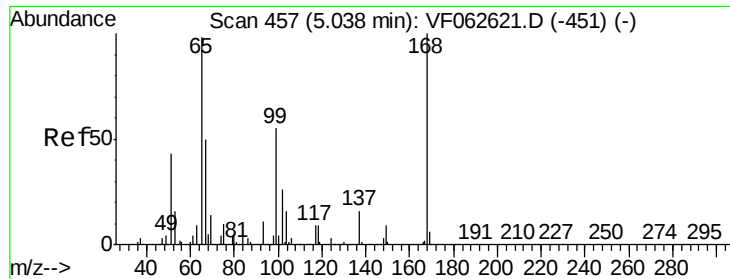


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

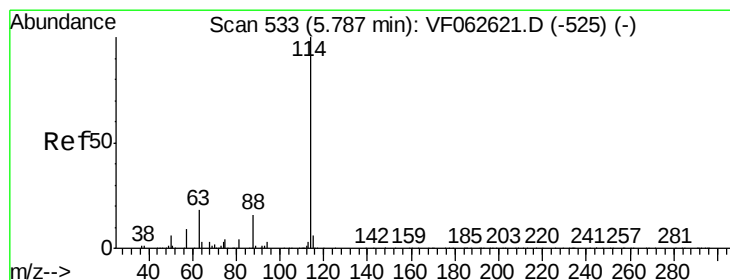
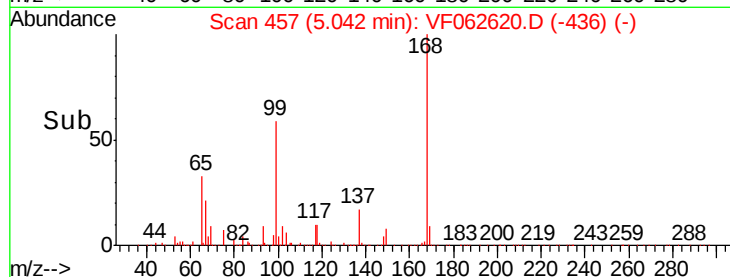
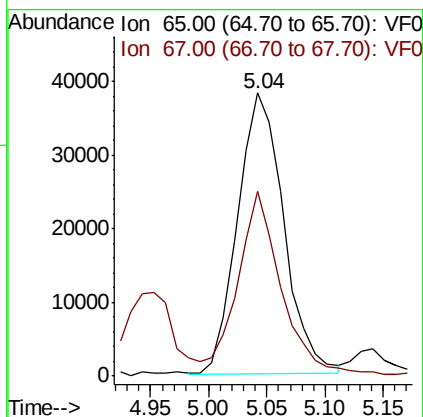
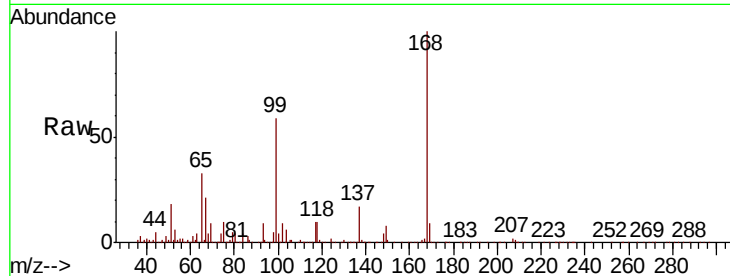




#33  
 1,2-Dichloroethane-d4  
 Concen: 19.015 ug/l  
 RT: 5.04 min Scan# 457  
 Delta R.T. 0.00 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

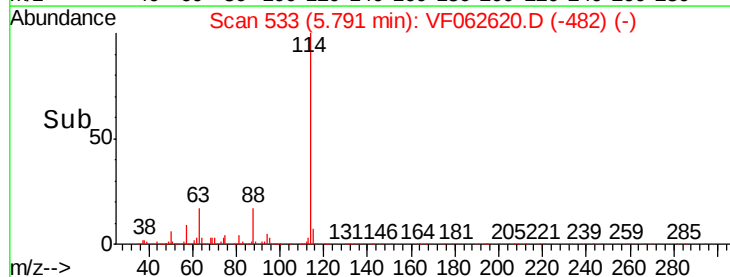
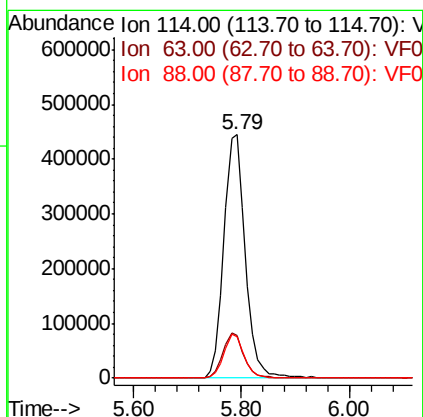
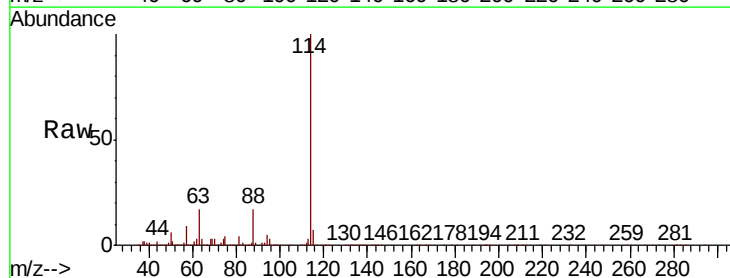
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

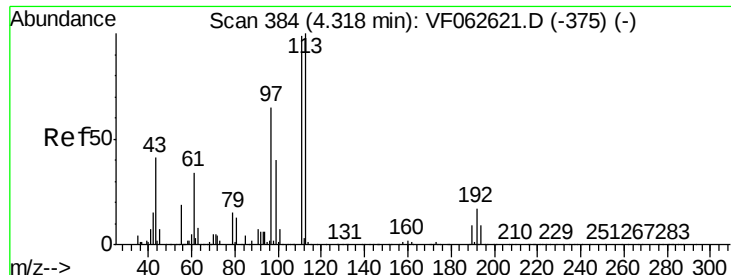
Tot Ion: 65 Resp: 104886  
 Ion Ratio Lower Upper  
 65 100  
 67 65.1 0.0 117.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.79 min Scan# 533  
 Delta R.T. 0.00 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

Tgt Ion:114 Resp: 1220766  
 Ion Ratio Lower Upper  
 114 100  
 63 17.3 0.0 35.4  
 88 17.0 0.0 32.4

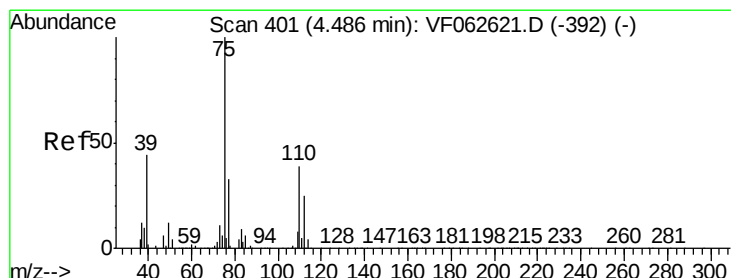
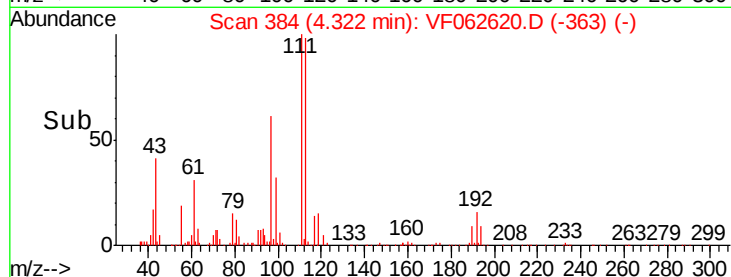
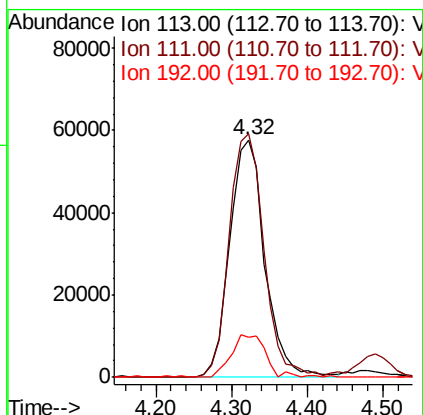
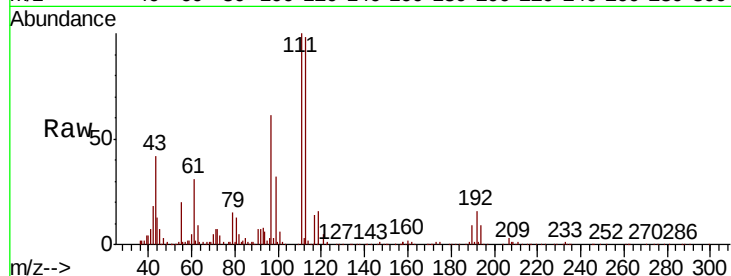




#35  
 Dibromofluoromethane  
 Concen: 19.772 ug/l  
 RT: 4.32 min Scan# 384  
 Delta R.T. 0.00 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

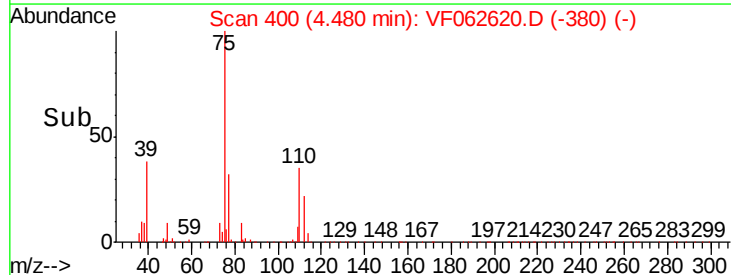
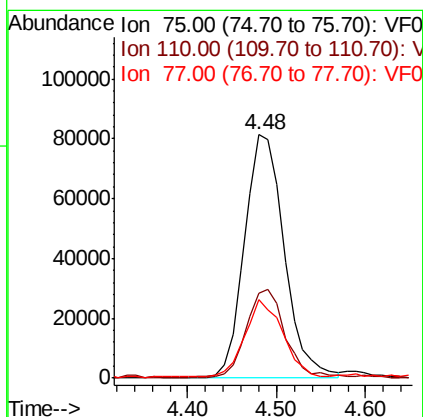
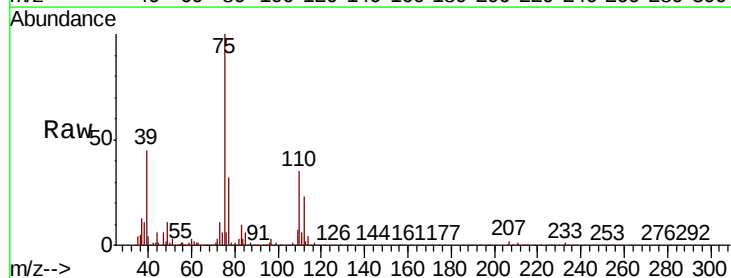
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

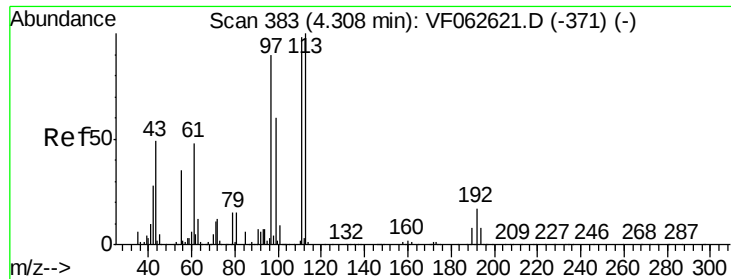
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 79.4  | 119.2 |
| 192     | 16.7  | 13.4  | 20.2  |



#36  
 1,1-Dichloropropene  
 Concen: 20.045 ug/l  
 RT: 4.48 min Scan# 400  
 Delta R.T. -0.01 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 34.8  | 19.7  | 59.1  |
| 77      | 32.4  | 26.3  | 39.5  |

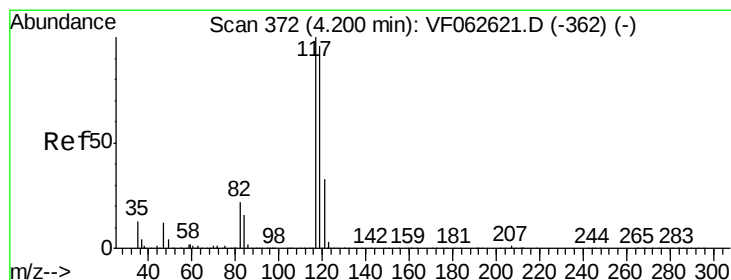
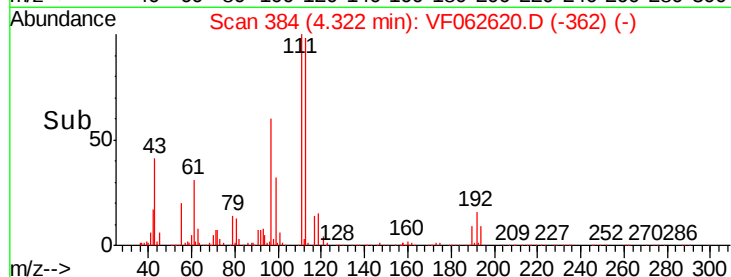
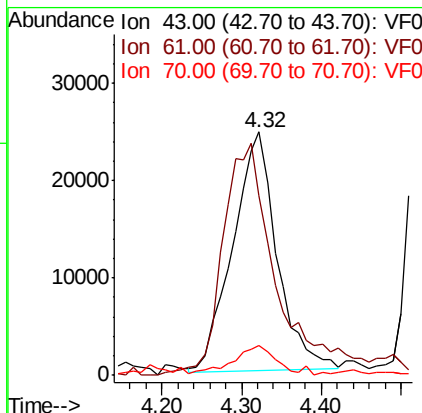
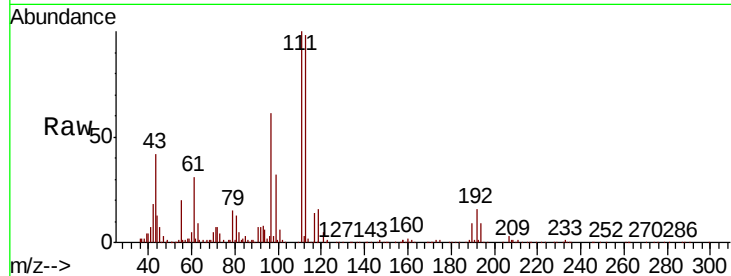




#37  
Ethyl Acetate  
Concen: 18.554 ug/l  
RT: 4.32 min Scan# 384  
Delta R.T. 0.01 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

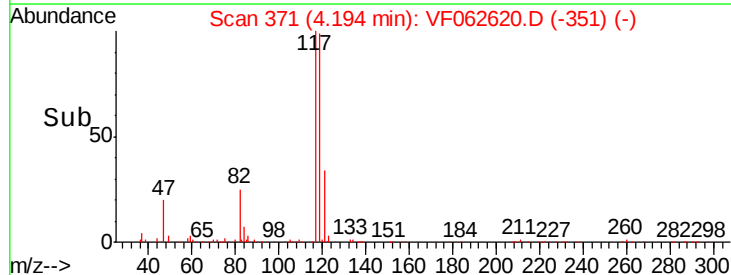
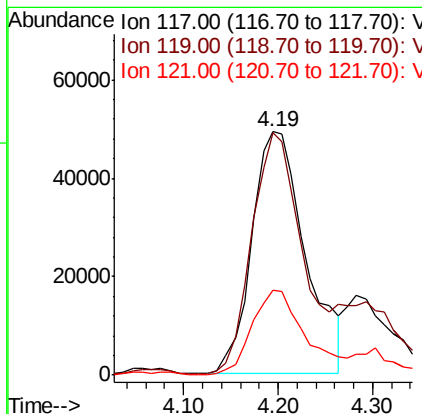
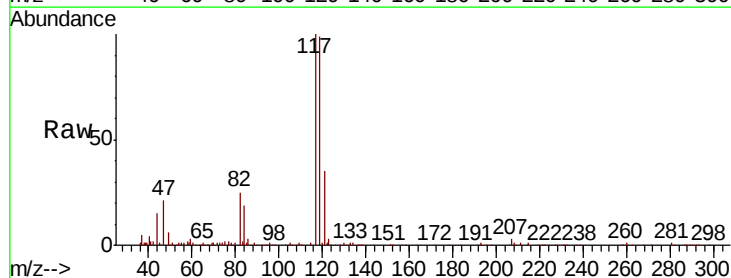
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

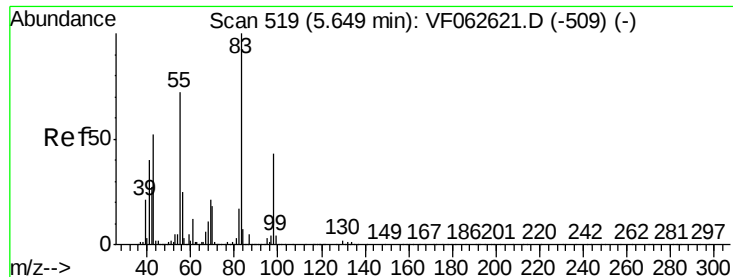
Tot Ion: 43 Resp: 94763  
Ion Ratio Lower Upper  
43 100  
61 74.0 76.9 115.3#  
70 12.2 8.8 13.2



#38  
Carbon Tetrachloride  
Concen: 22.142 ug/l  
RT: 4.19 min Scan# 371  
Delta R.T. -0.01 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion: 117 Resp: 195142  
Ion Ratio Lower Upper  
117 100  
119 99.4 76.7 115.1  
121 34.8 26.6 40.0

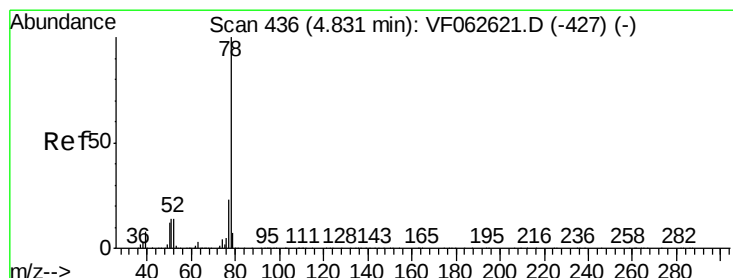
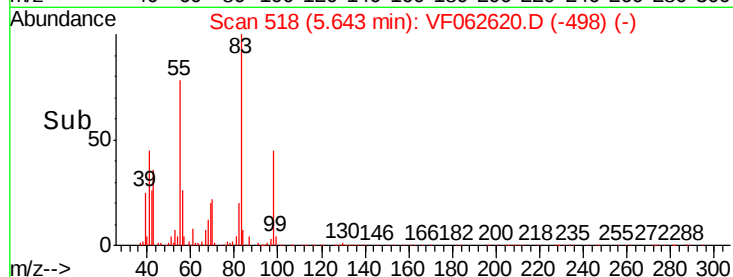
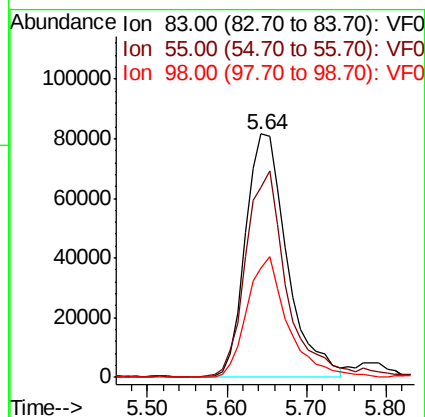
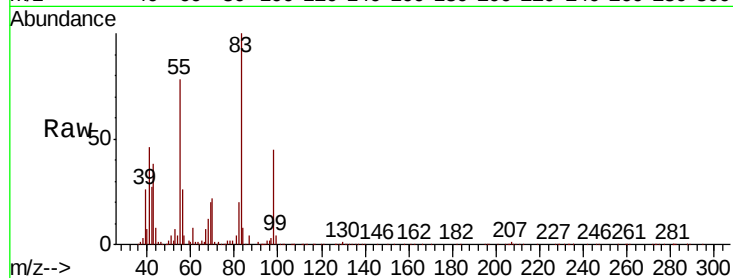




#39  
Methvlcvclohexane  
Concen: 19.587 ug/l  
RT: 5.64 min Scan# 518  
Delta R.T. -0.01 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

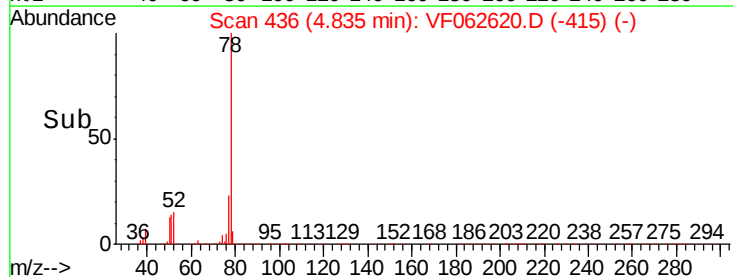
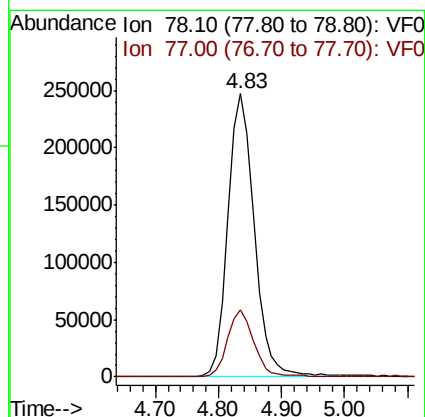
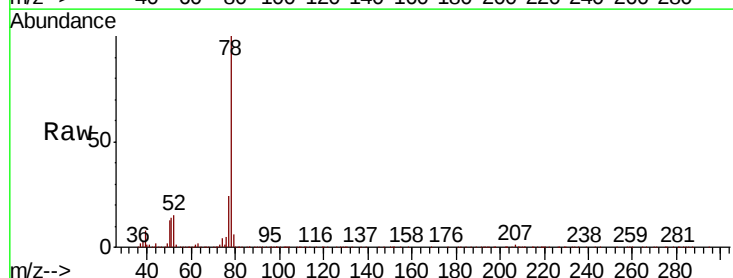
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

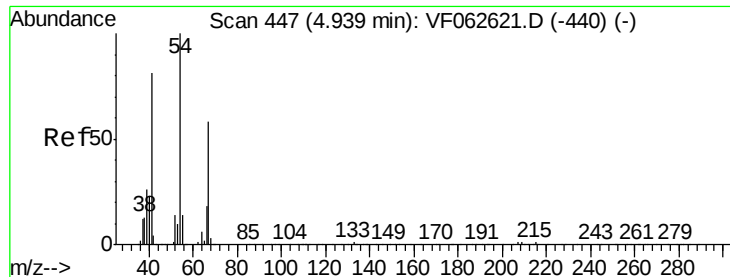
Tot Ion: 83 Resp: 294811  
Ion Ratio Lower Upper  
83 100  
55 78.2 57.9 86.9  
98 44.9 34.6 52.0



#40  
Benzene  
Concen: 21.023 ug/l  
RT: 4.83 min Scan# 436  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion: 78 Resp: 716409  
Ion Ratio Lower Upper  
78 100  
77 23.6 18.2 27.2





#41

Methacrylonitrile

Concen: 17.224 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

Tot Ion: 41 Resp: 46121

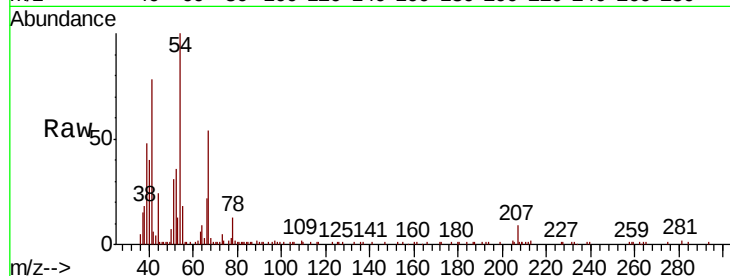
Ion Ratio Lower Upper

41 100

39 62.0 42.2 63.2

67 68.6 56.4 84.6

52 46.1 38.8 58.2

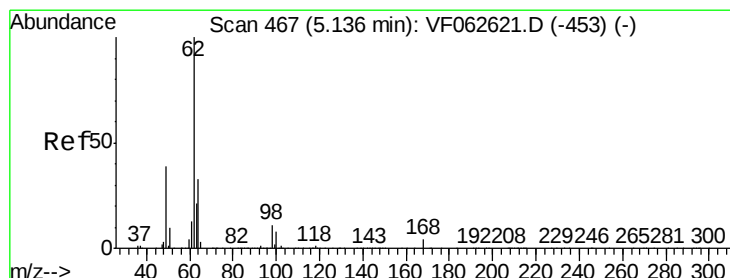
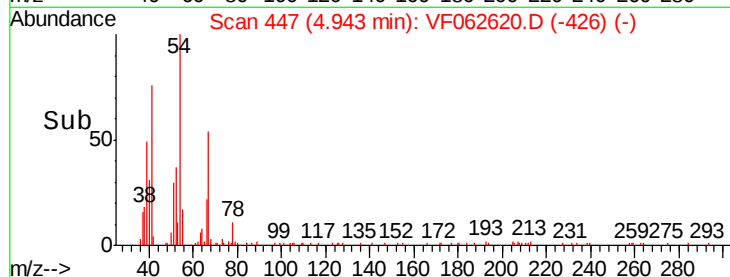
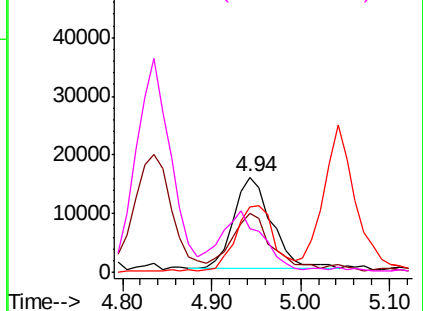


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 19.564 ug/l

RT: 5.14 min Scan# 467

Delta R.T. 0.00 min

Lab File: VF062620.D

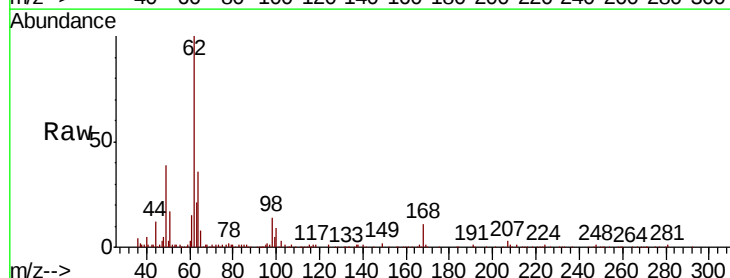
Acq: 16 May 2019 11:32

Tgt Ion: 62 Resp: 132953

Ion Ratio Lower Upper

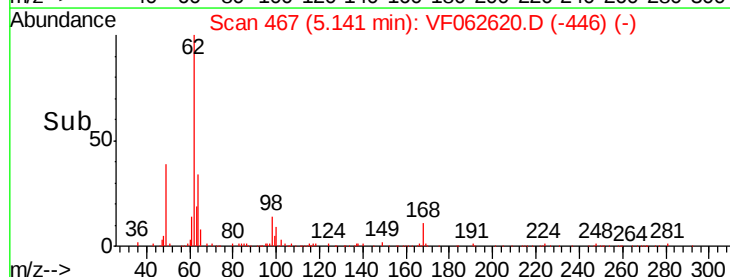
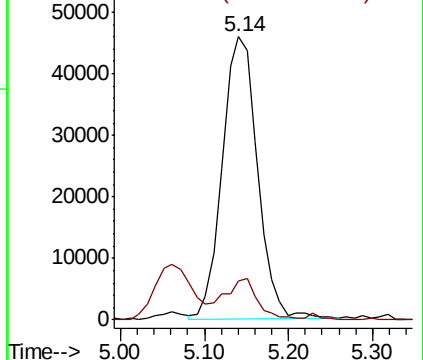
62 100

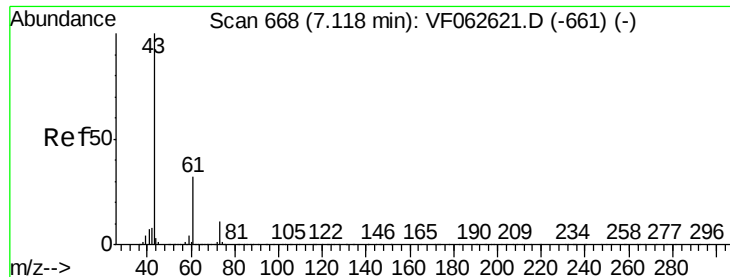
98 13.8 0.0 21.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



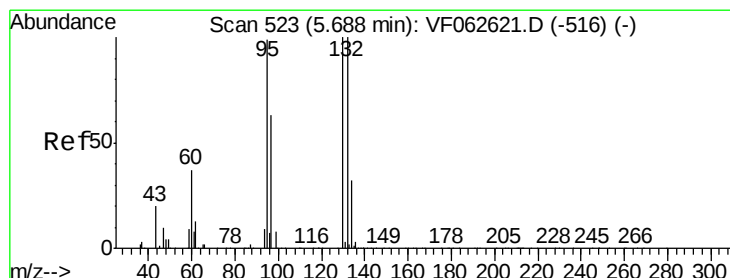
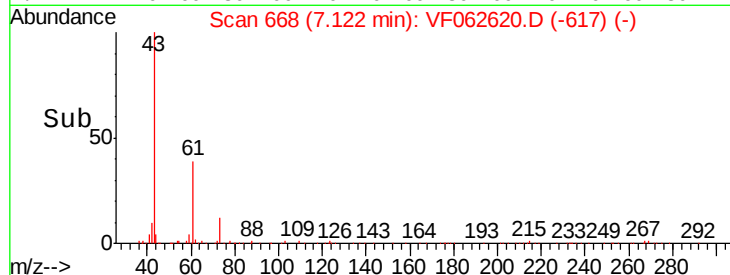
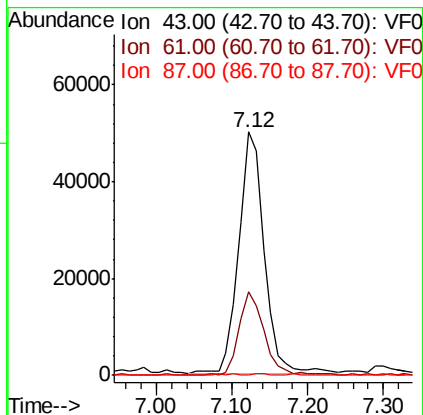
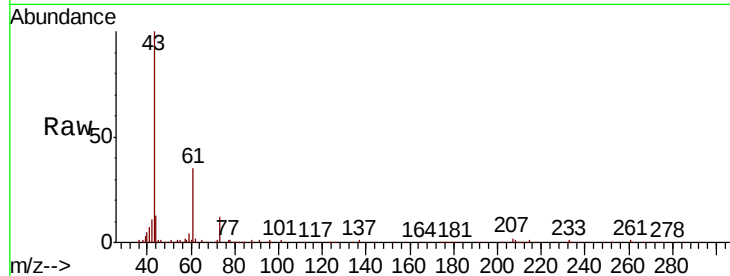


#43

Isopropyl Acetate  
 Concen: 17.462 ug/l  
 RT: 7.12 min Scan# 668  
 Delta R.T. 0.00 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

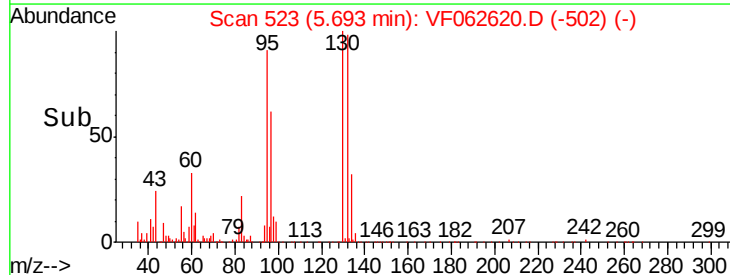
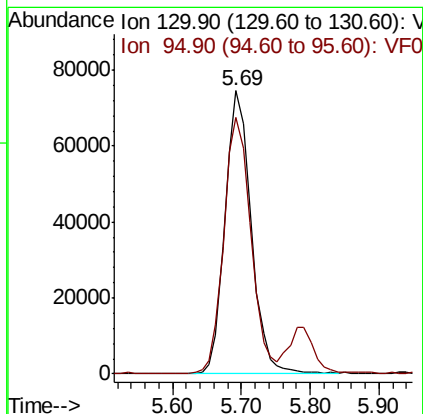
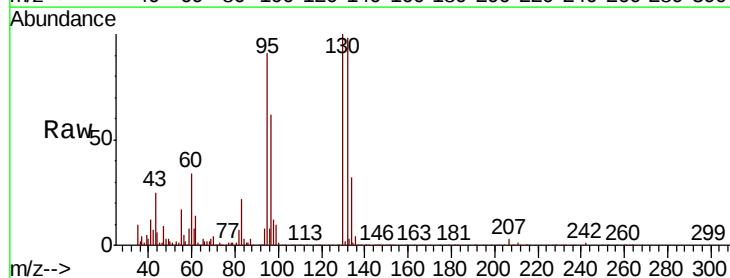
Tot Ion: 43 Resp: 115545  
 Ion Ratio Lower Upper  
 43 100  
 61 34.5 25.8 38.8  
 87 0.4 0.4 0.6

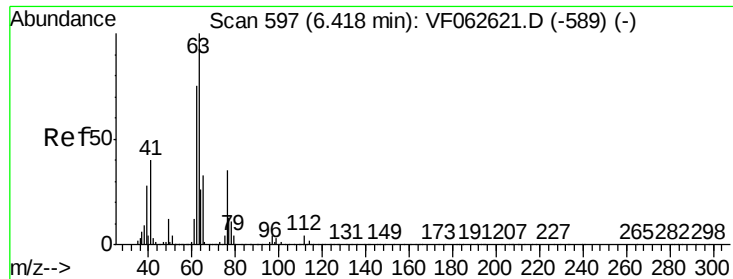


#44

Trichloroethene  
 Concen: 20.583 ug/l  
 RT: 5.69 min Scan# 523  
 Delta R.T. 0.00 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

Tgt Ion: 130 Resp: 197143  
 Ion Ratio Lower Upper  
 130 100  
 95 90.6 0.0 199.4





#45

1,2-Dichloropropane

Concen: 19.232 ug/l

RT: 6.42 min Scan# 597

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

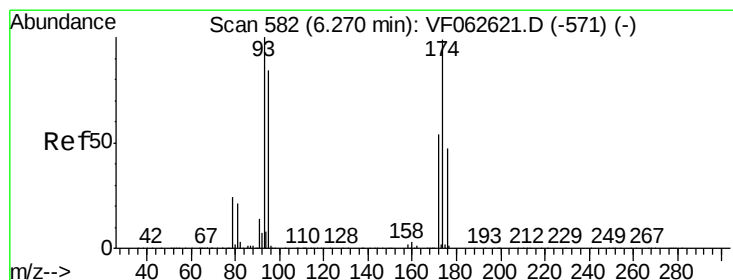
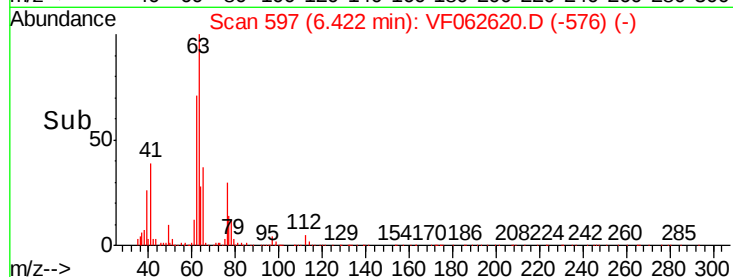
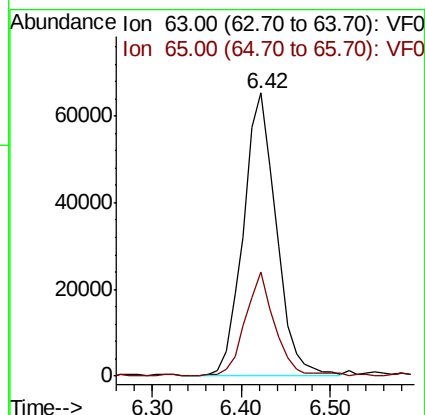
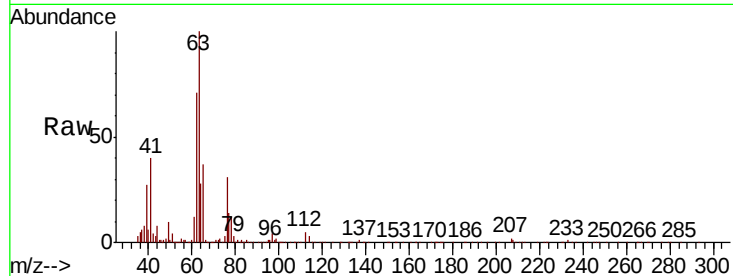
VSTDIC020

Tot Ion: 63 Resp: 165446

Ion Ratio Lower Upper

63 100

65 36.8 26.3 39.5



#46

Dibromomethane

Concen: 19.480 ug/l

RT: 6.27 min Scan# 582

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

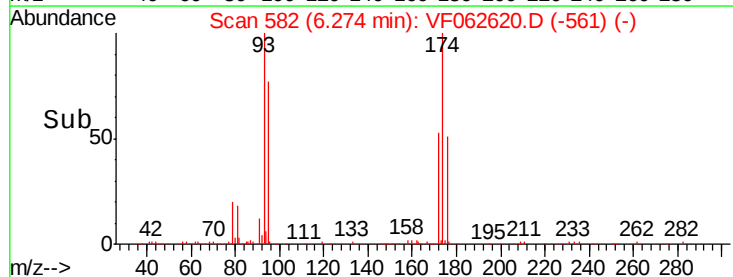
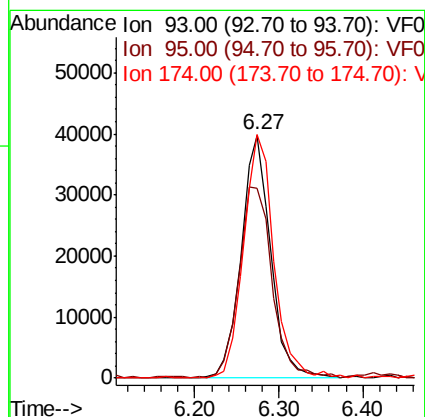
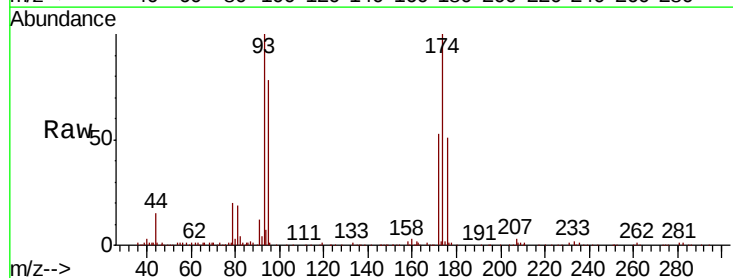
Tgt Ion: 93 Resp: 96849

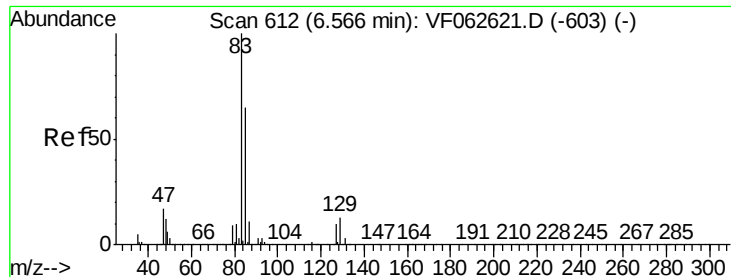
Ion Ratio Lower Upper

93 100

95 79.5 67.4 101.2

174 100.3 79.4 119.2





#47

Bromodichloromethane

Concen: 20.240 ug/l

RT: 6.56 min Scan# 611

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

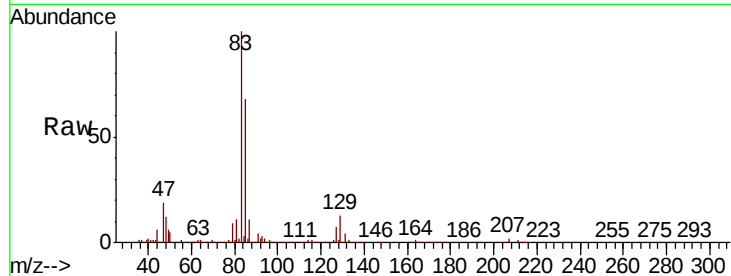
Tot Ion: 83 Resp: 208895

Ion Ratio Lower Upper

83 100

85 67.8 52.0 78.0

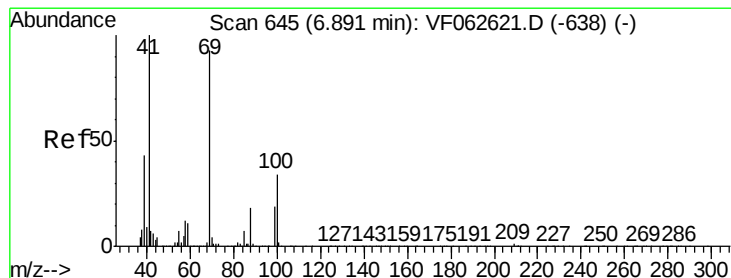
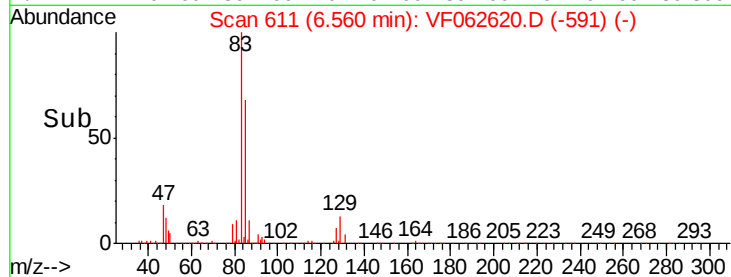
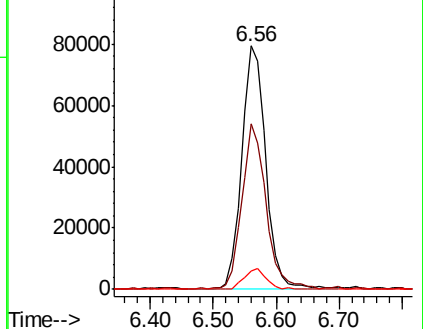
127 7.5 7.7 11.5#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 18.120 ug/l

RT: 6.89 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

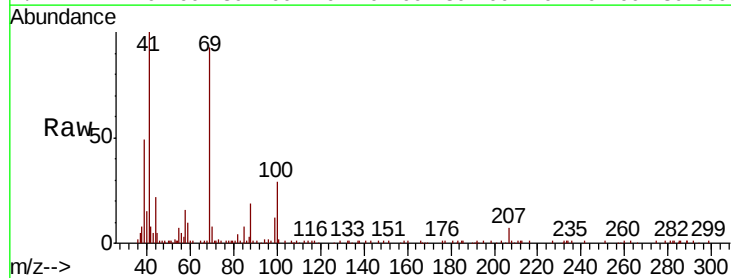
Tgt Ion: 41 Resp: 62668

Ion Ratio Lower Upper

41 100

69 93.1 74.2 111.2

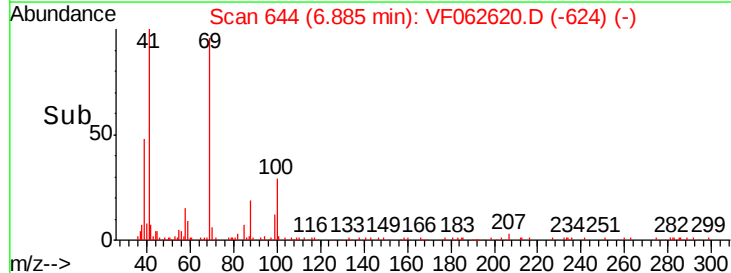
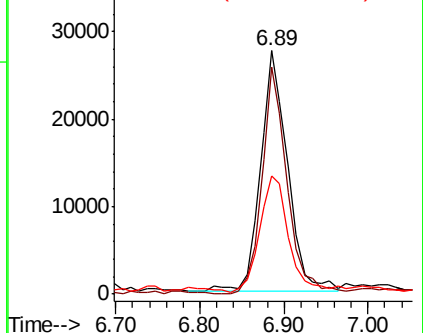
39 48.8 34.2 51.4

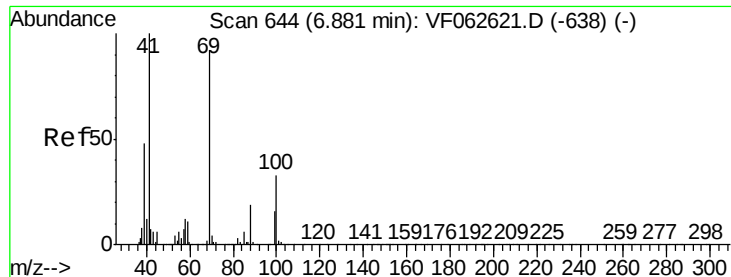


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

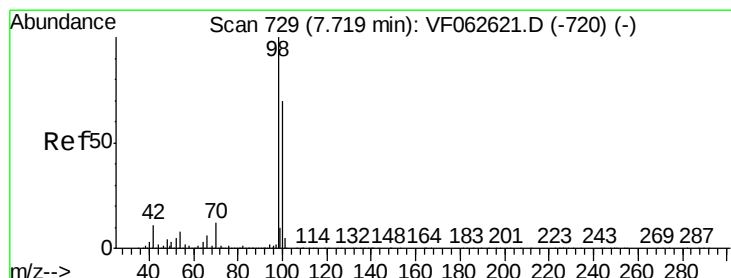
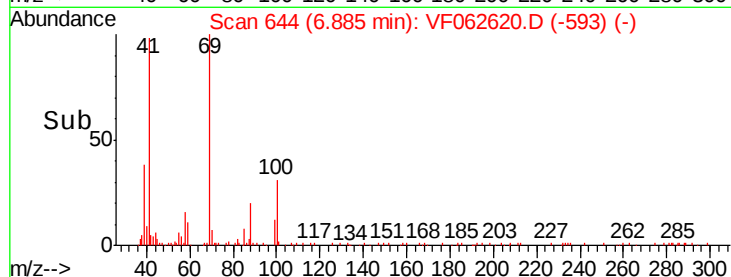
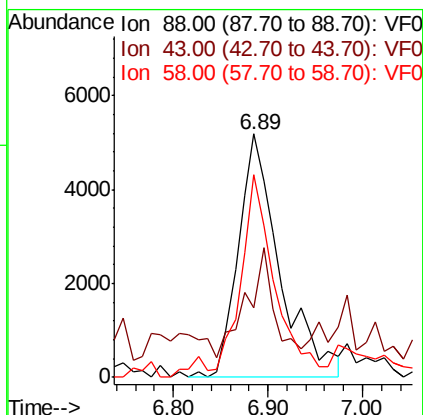
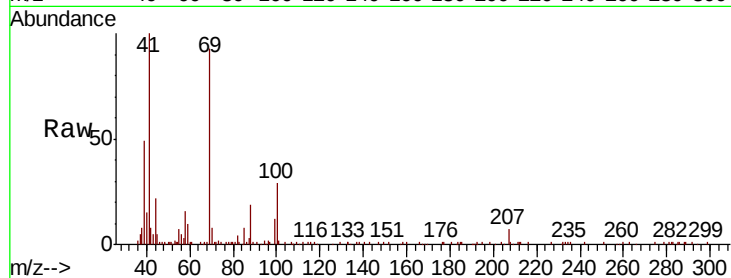




#49  
1,4-Dioxane  
Concen: 354.720 ug/l  
RT: 6.89 min Scan# 644  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

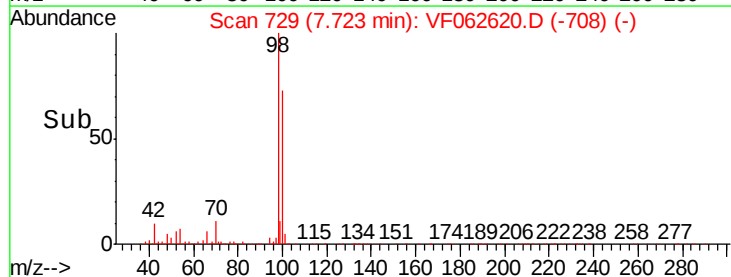
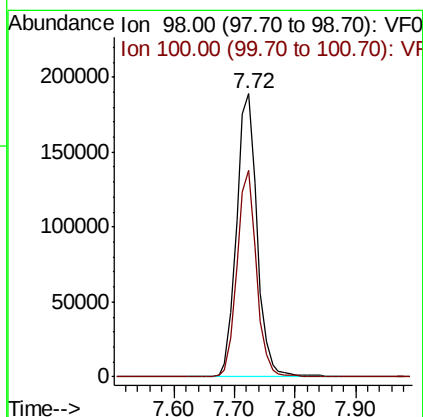
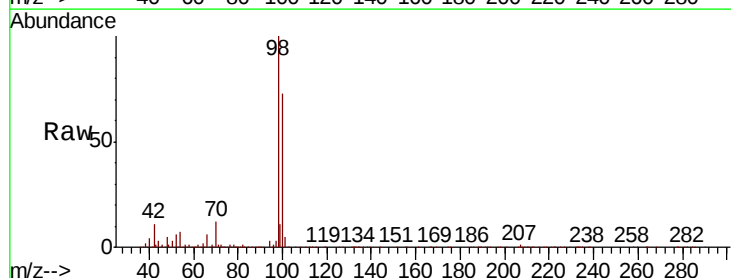
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

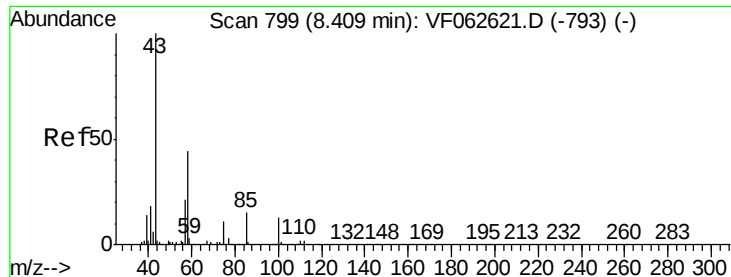
Tot Ion: 88 Resp: 15713  
Ion Ratio Lower Upper  
88 100  
43 28.8 30.0 45.0#  
58 83.2 51.1 76.7#



#50  
Toluene-d8  
Concen: 19.975 ug/l  
RT: 7.72 min Scan# 729  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion: 98 Resp: 445509  
Ion Ratio Lower Upper  
98 100  
100 72.9 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 93.370 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

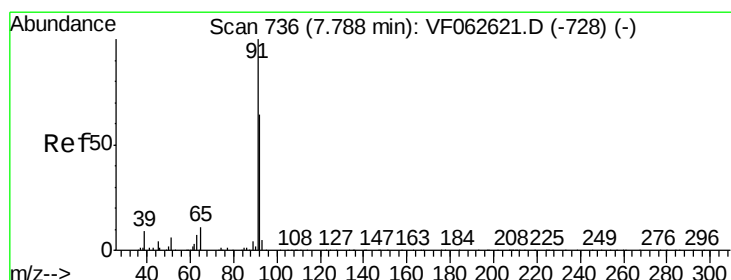
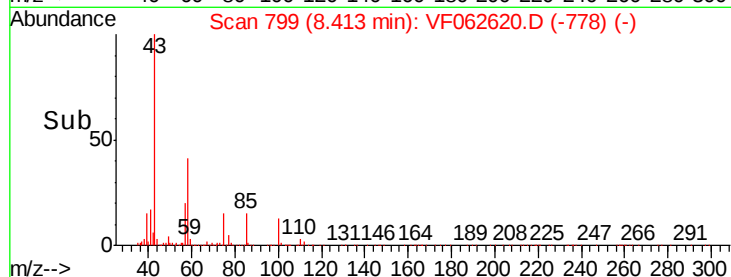
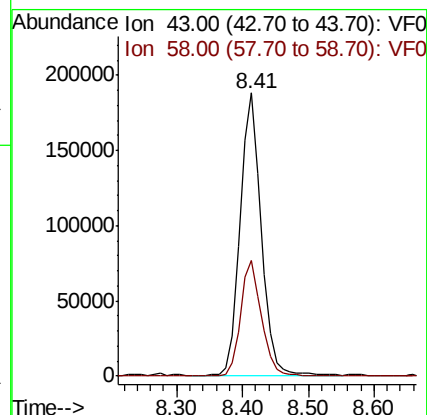
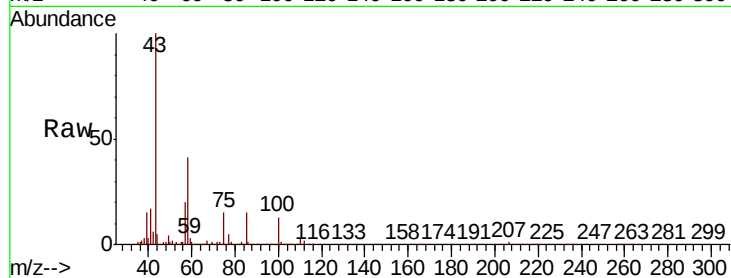
VSTDIC020

Tot Ion: 43 Resp: 422305

Ion Ratio Lower Upper

43 100

58 41.0 34.9 52.3



#52

Toluene

Concen: 20.498 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF062620.D

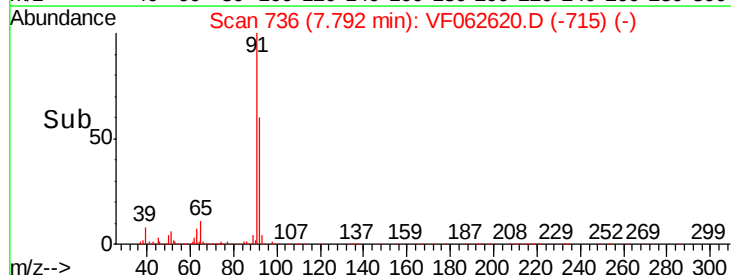
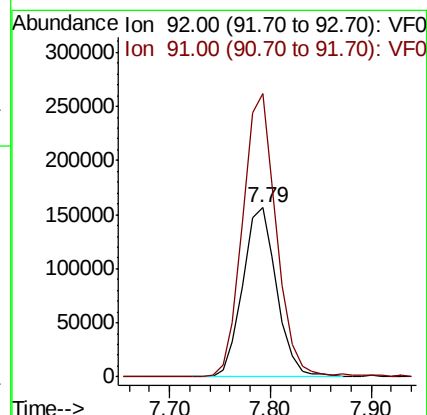
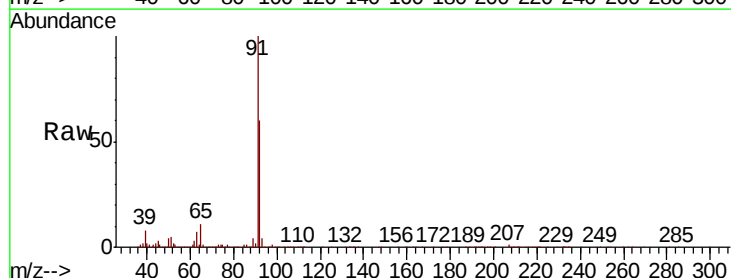
Acq: 16 May 2019 11:32

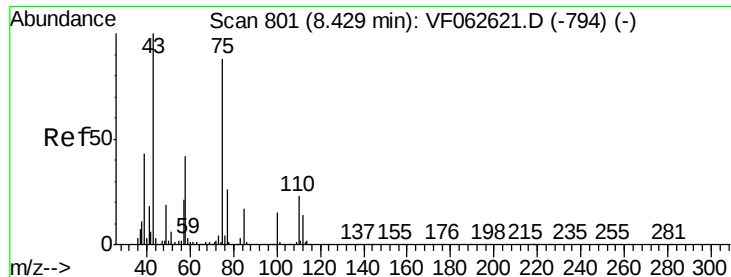
Tgt Ion: 92 Resp: 366347

Ion Ratio Lower Upper

92 100

91 167.5 125.4 188.0





#53

t-1,3-Dichloropropene

Concen: 19.306 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

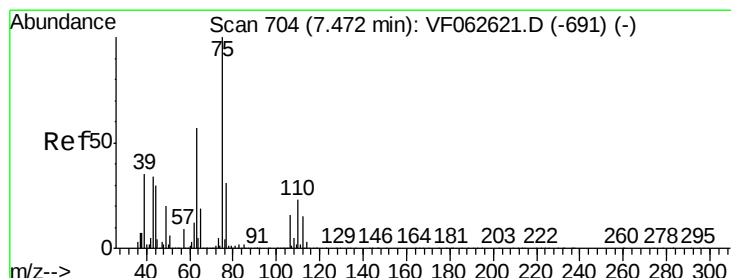
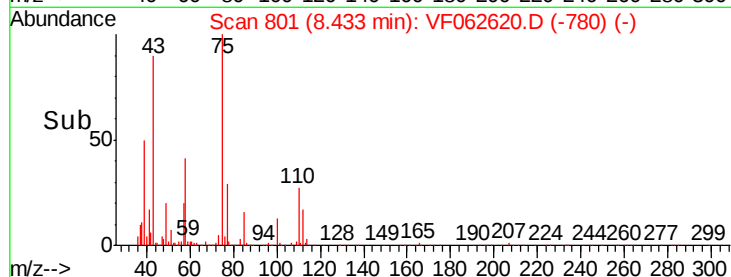
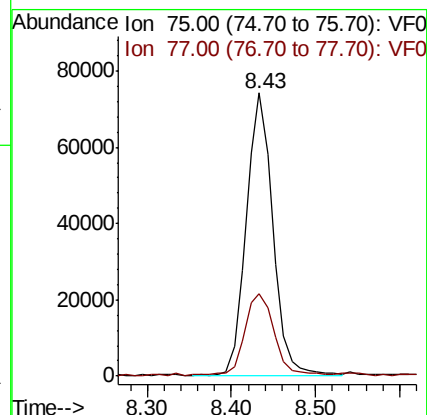
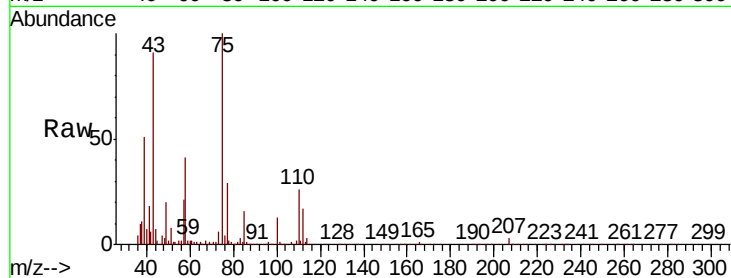
VSTDIC020

Tot Ion: 75 Resp: 163020

Ion Ratio Lower Upper

75 100

77 29.0 24.2 36.4



#54

cis-1,3-Dichloropropene

Concen: 20.361 ug/l

RT: 7.47 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

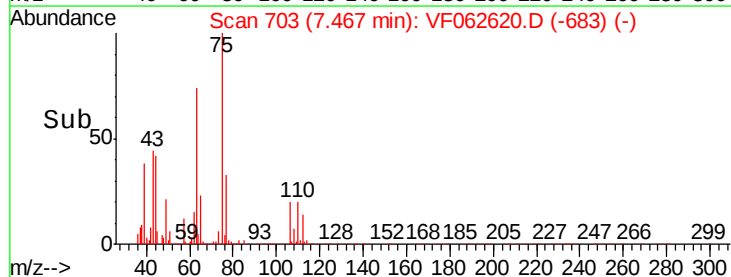
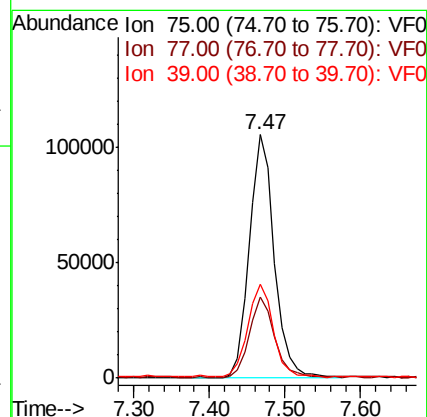
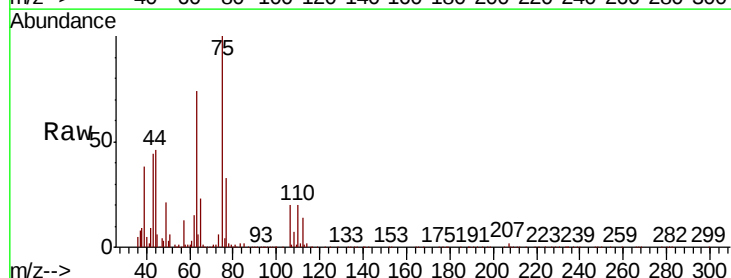
Tgt Ion: 75 Resp: 240674

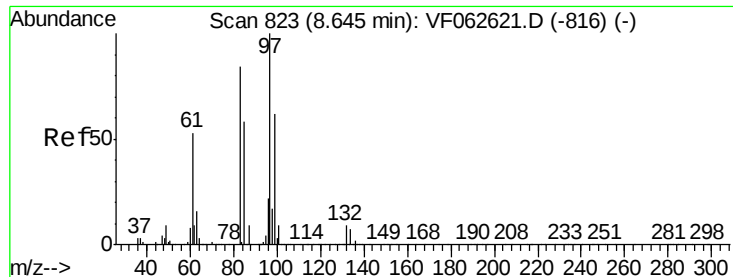
Ion Ratio Lower Upper

75 100

77 33.4 25.3 37.9

39 38.4 28.2 42.2





#55

1,1,2-Trichloroethane

Concen: 20.238 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 107092

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 86.7  | 67.3  | 100.9 |
| 85  | 60.4  | 46.6  | 69.8  |
| 99  | 56.3  | 49.7  | 74.5  |

97 100

83 86.7 67.3 100.9

85 60.4 46.6 69.8

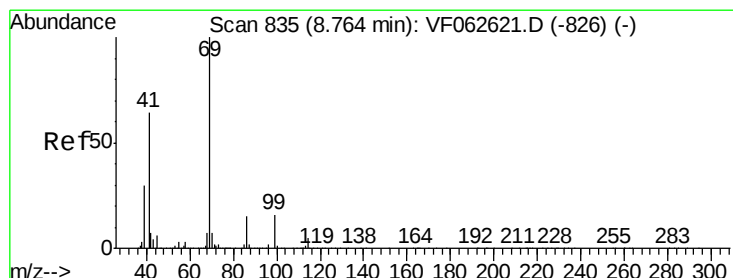
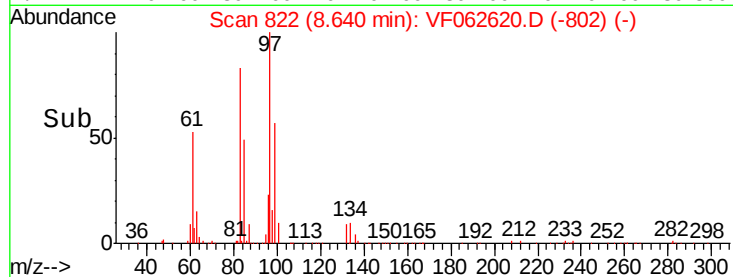
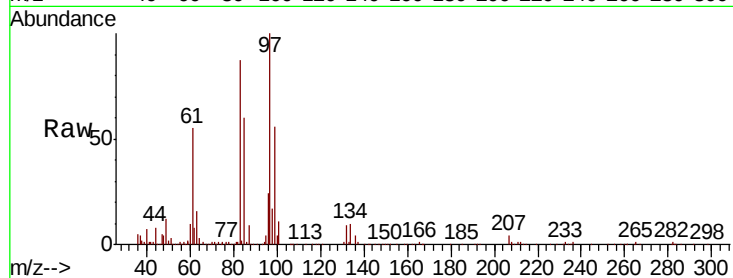
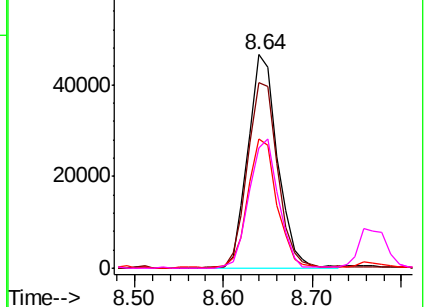
99 56.3 49.7 74.5

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: 18.517 ug/l

RT: 8.77 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Tgt Ion: 69 Resp: 116736

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 61.6  | 51.4  | 77.2  |
| 39  | 27.4  | 23.6  | 35.4  |

69 100

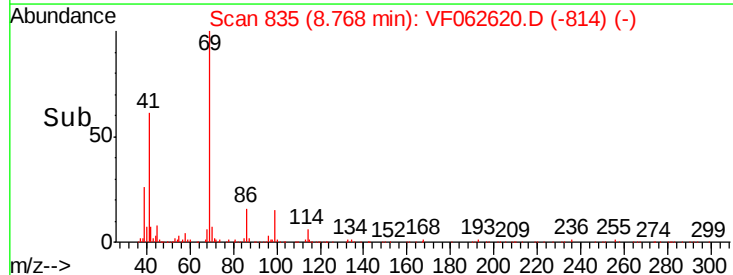
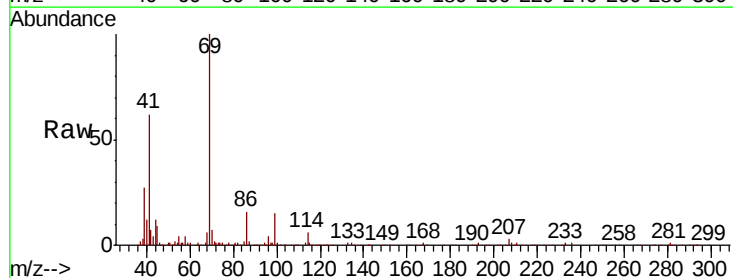
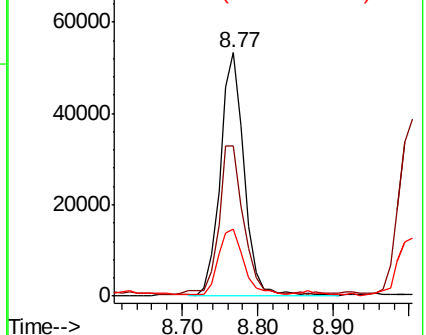
41 61.6 51.4 77.2

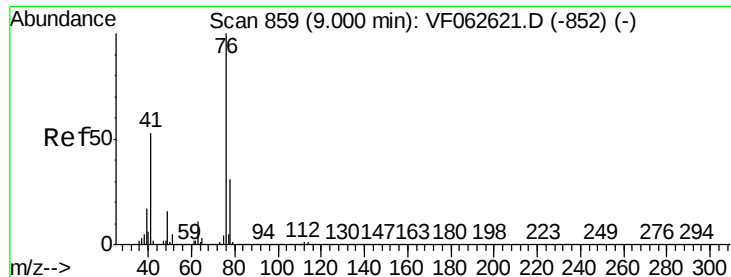
39 27.4 23.6 35.4

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: 18.701 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

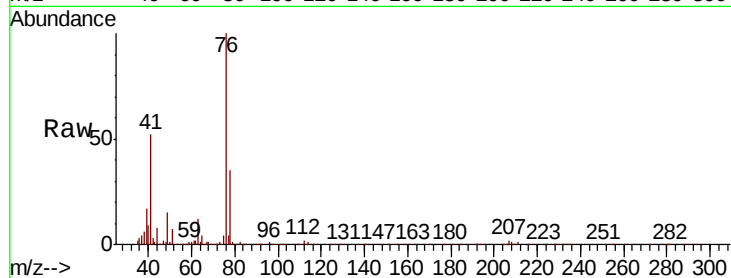
VSTDIC020

Tot Ion: 76 Resp: 168555

Ion Ratio Lower Upper

76 100

78 35.0 25.4 38.0



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

80000

60000

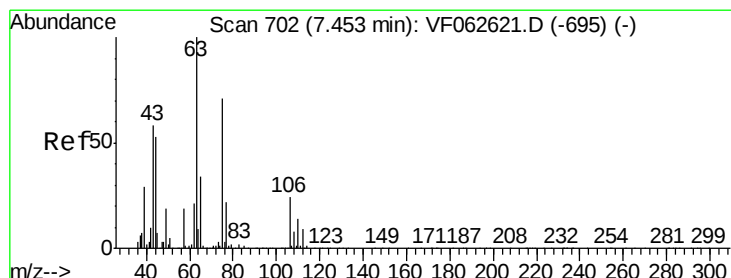
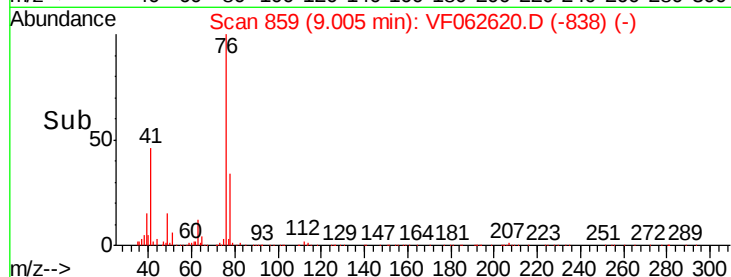
40000

20000

0

8.90 9.00 9.10

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 98.321 ug/l

RT: 7.46 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF062620.D

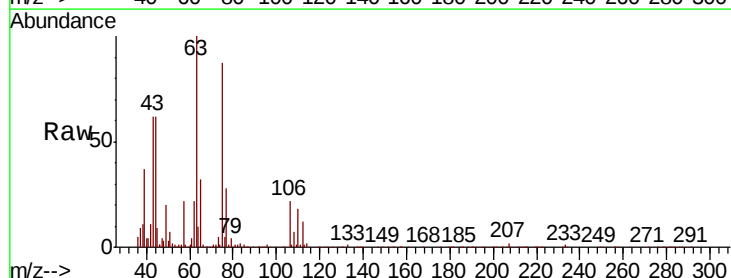
Acq: 16 May 2019 11:32

Tgt Ion: 63 Resp: 201763

Ion Ratio Lower Upper

63 100

106 22.2 19.1 28.7



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

100000

80000

60000

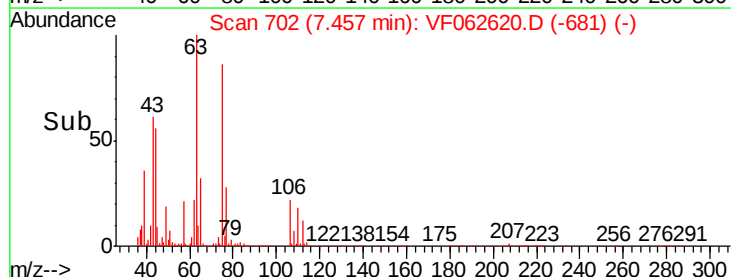
40000

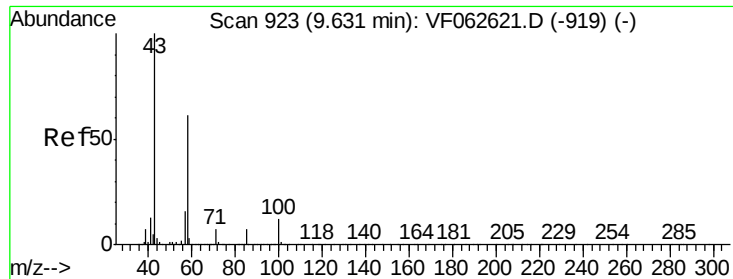
20000

0

7.30 7.40 7.50 7.60

Time-->

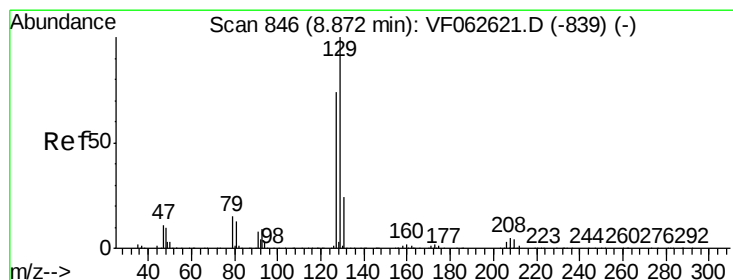
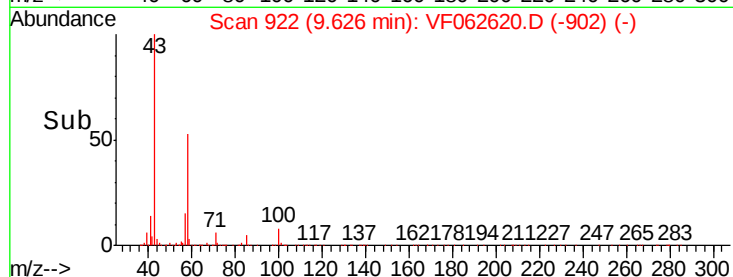
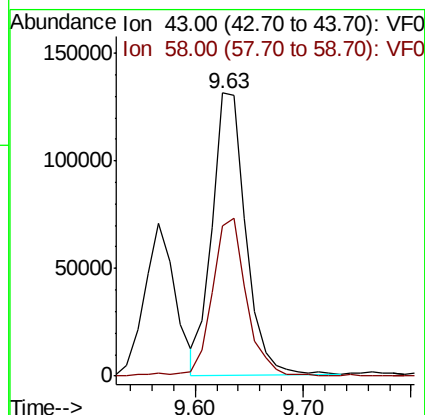
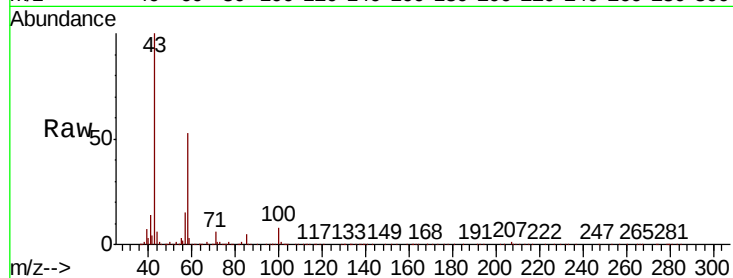




#59  
2-Hexanone  
Concen: 85.565 ug/l  
RT: 9.63 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

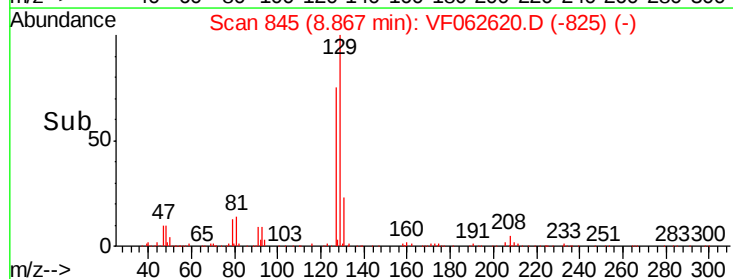
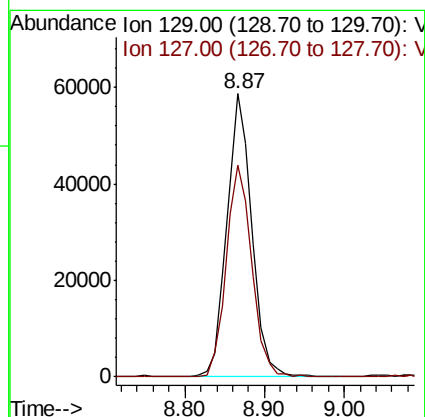
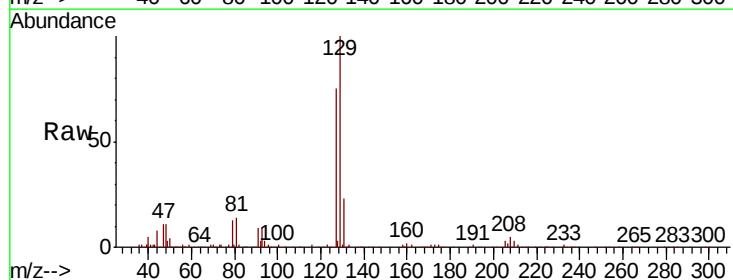
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

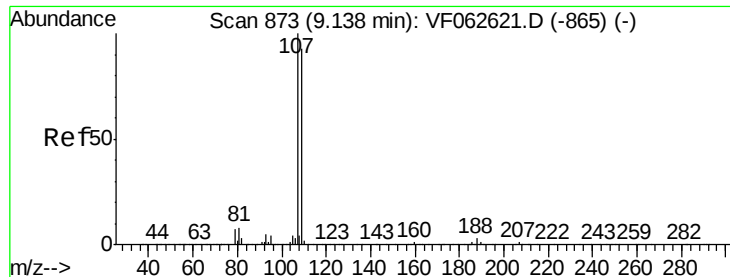
Tot Ion: 43 Resp: 282955  
Ion Ratio Lower Upper  
43 100  
58 52.9 28.1 84.4



#60  
Dibromochloromethane  
Concen: 18.799 ug/l  
RT: 8.87 min Scan# 845  
Delta R.T. -0.01 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion: 129 Resp: 129655  
Ion Ratio Lower Upper  
129 100  
127 74.6 37.2 111.6





#61

1,2-Dibromoethane

Concen: 18.580 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

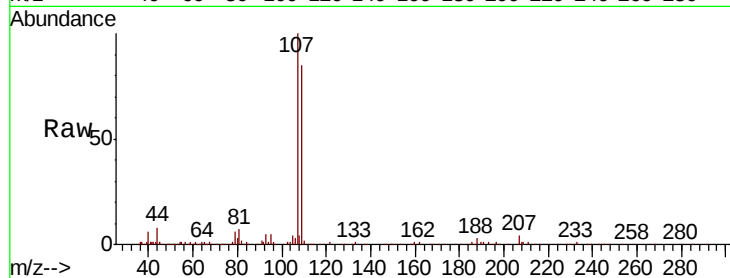
VSTDIC020

Tot Ion:107 Resp: 104431

Ion Ratio Lower Upper

107 100

109 85.5 74.8 112.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.14

50000

40000

30000

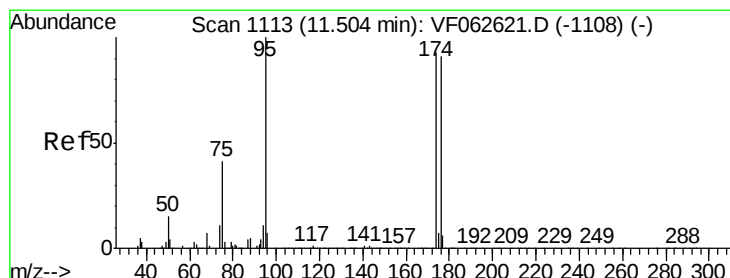
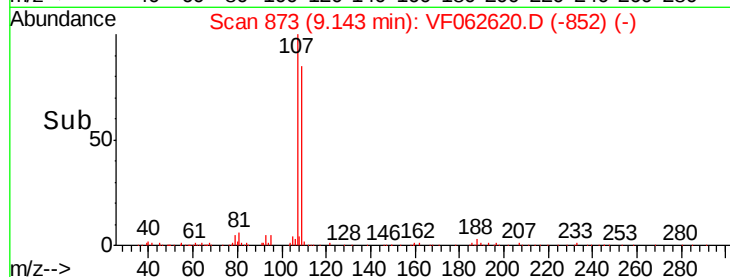
20000

10000

0

Time-->

9.00 9.10 9.20



#62

4-Bromofluorobenzene

Concen: 19.346 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

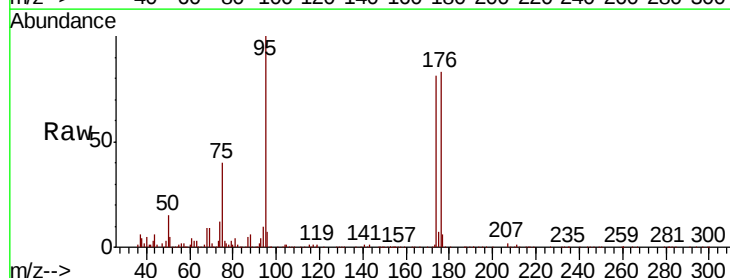
Tgt Ion: 95 Resp: 163645

Ion Ratio Lower Upper

95 100

174 81.5 0.0 185.6

176 83.2 0.0 182.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.50

120000

100000

80000

60000

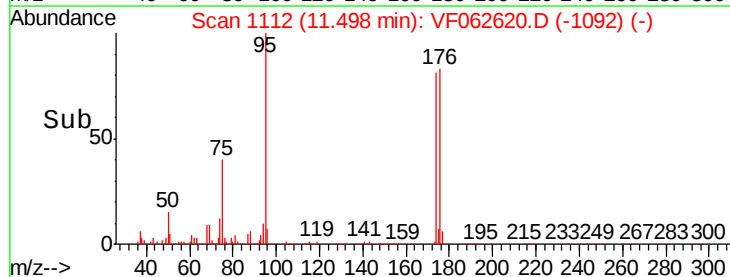
40000

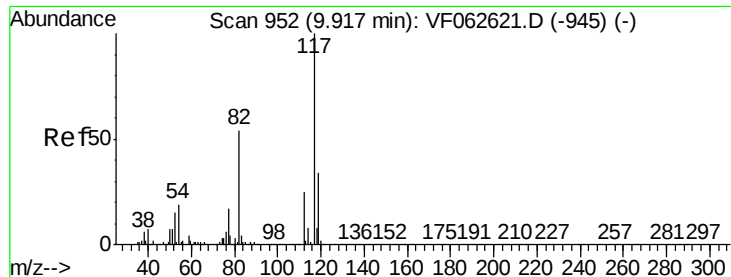
20000

0

Time-->

11.40 11.50

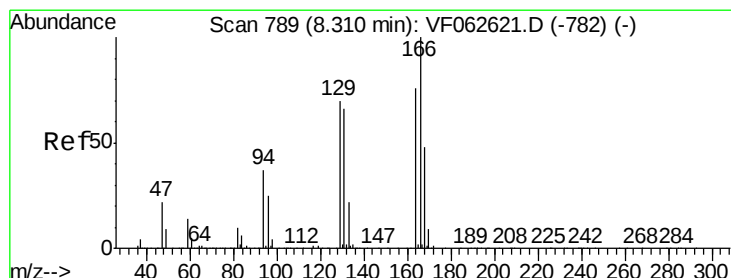
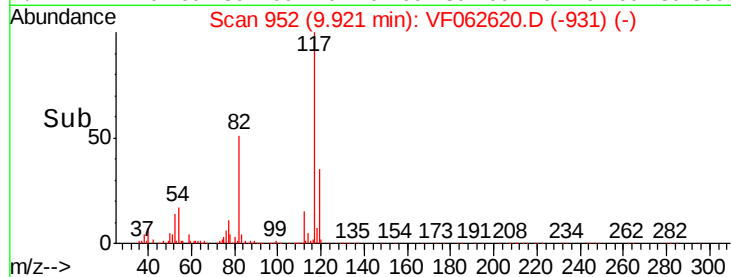
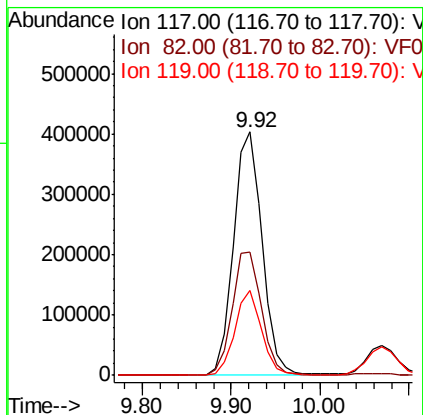
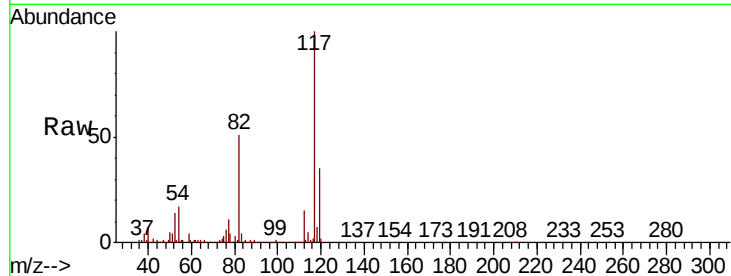




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.92 min Scan# 952  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

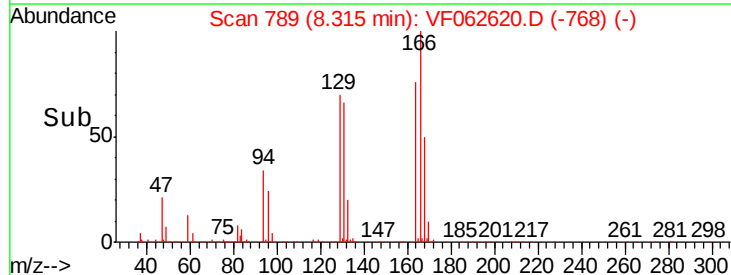
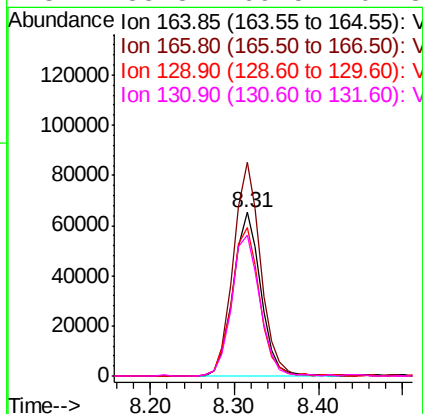
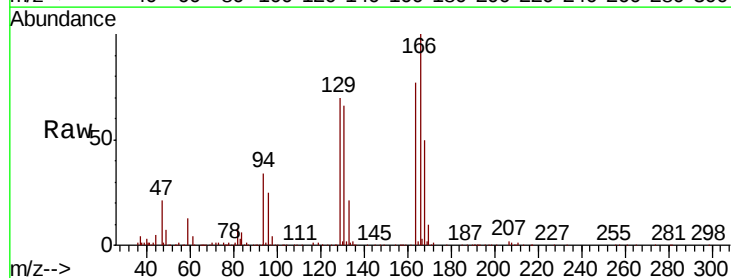
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

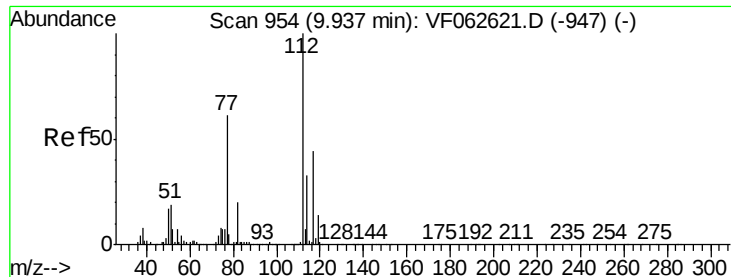
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 50.7  | 43.3  | 64.9  |
| 119     | 35.1  | 27.4  | 41.0  |



#64  
Tetrachloroethene  
Concen: 20.752 ug/l  
RT: 8.31 min Scan# 789  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 130.5 | 105.5 | 158.3 |
| 129     | 91.0  | 73.8  | 110.6 |
| 131     | 85.8  | 69.5  | 104.3 |

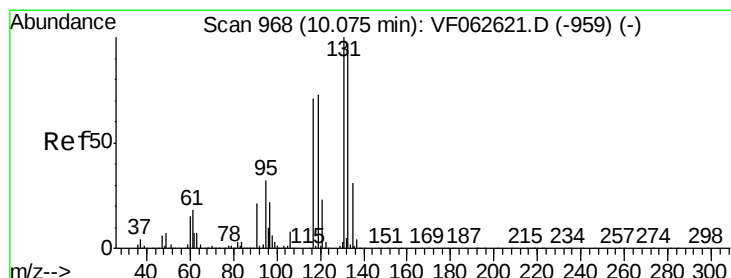
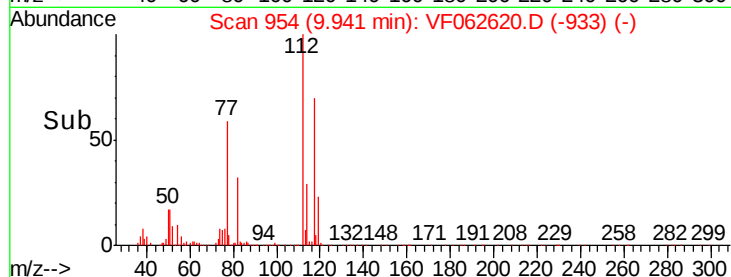
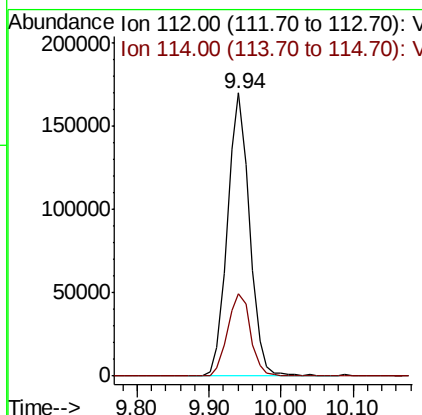
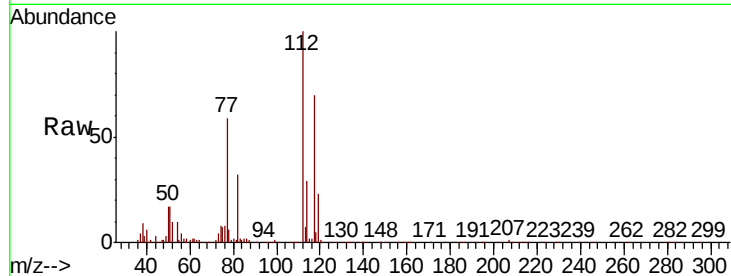




#65  
Chlorobenzene  
Concen: 20.415 ug/l  
RT: 9.94 min Scan# 954  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

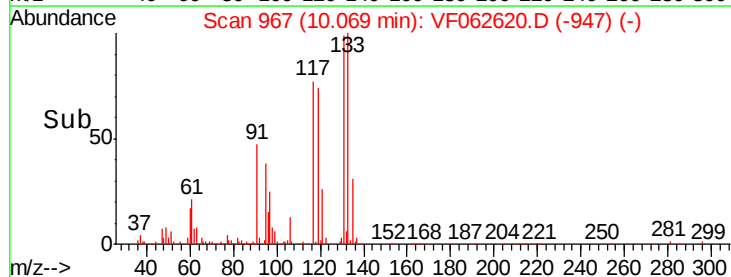
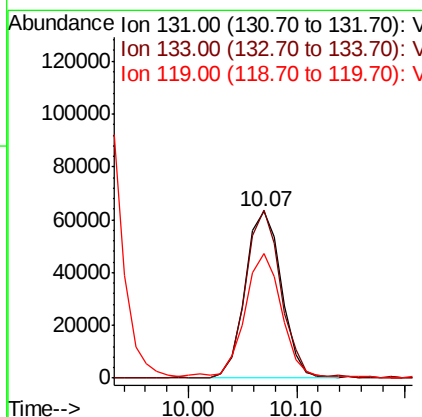
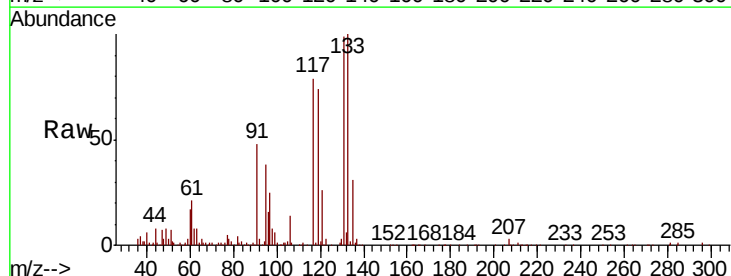
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

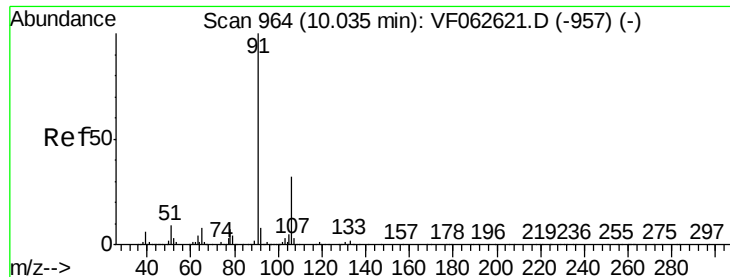
Tot Ion:112 Resp: 364086  
Ion Ratio Lower Upper  
112 100  
114 29.3 26.8 40.2



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.535 ug/l  
RT: 10.07 min Scan# 967  
Delta R.T. -0.01 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion:131 Resp: 147022  
Ion Ratio Lower Upper  
131 100  
133 101.0 48.5 145.5  
119 75.0 36.8 110.4





#67

Ethyl Benzene

Concen: 20.936 ug/l

RT: 10.04 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

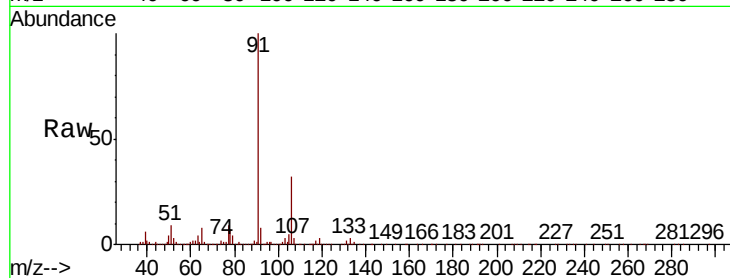
VSTDIC020

Tot Ion: 91 Resp: 648634

Ion Ratio Lower Upper

91 100

106 31.8 25.8 38.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.04

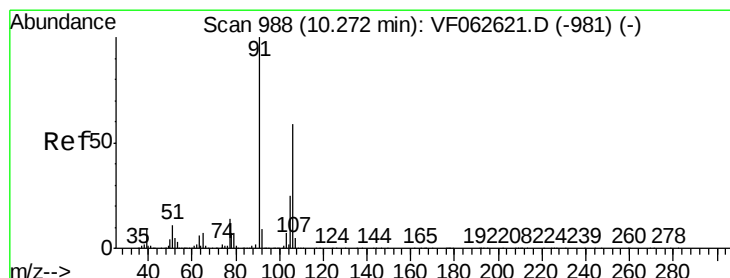
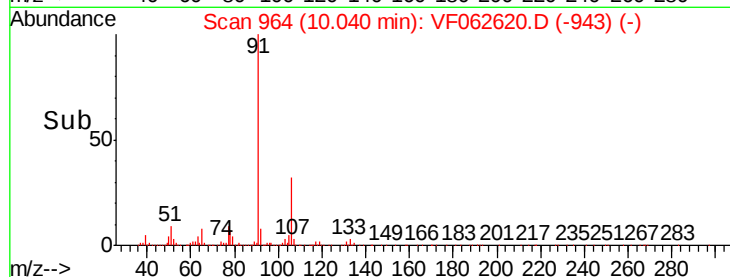
300000

200000

100000

0

Time--> 9.90 10.00 10.10



#68

m/p-Xylenes

Concen: 40.241 ug/l

RT: 10.27 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF062620.D

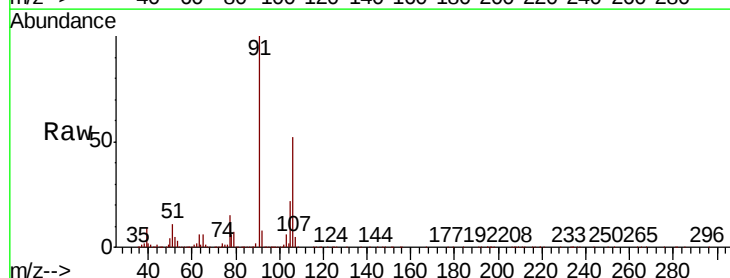
Acq: 16 May 2019 11:32

Tgt Ion: 106 Resp: 468589

Ion Ratio Lower Upper

106 100

91 192.9 136.9 205.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

500000

400000

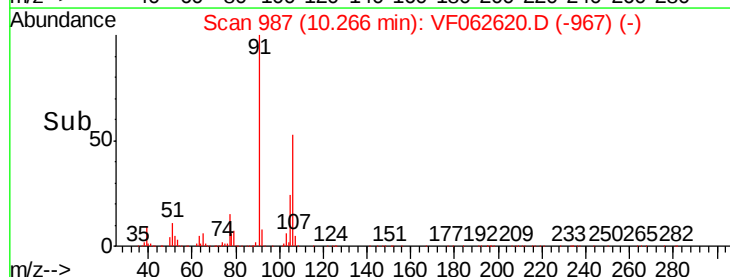
300000

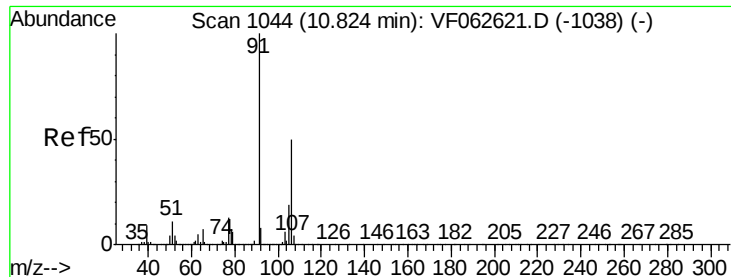
200000

100000

0

Time--> 10.20 10.30 10.40

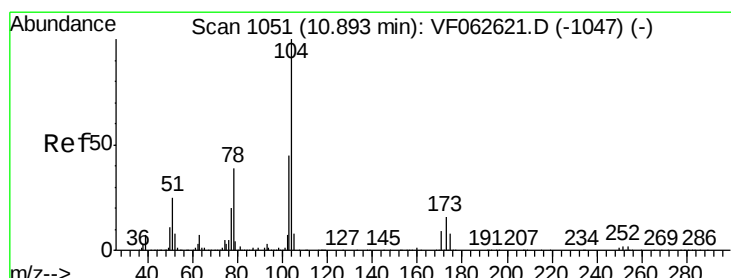
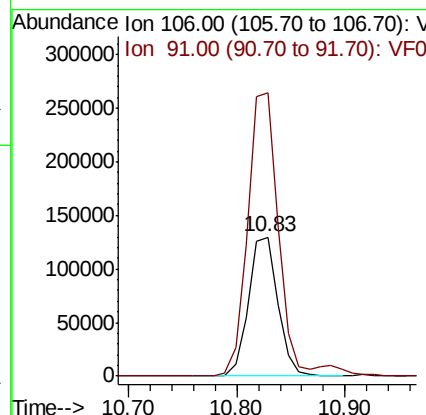
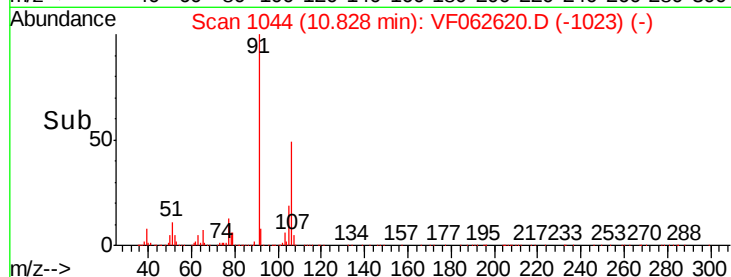
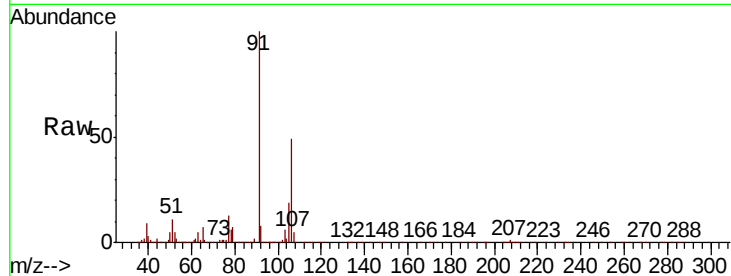




#69  
o-Xylene  
Concen: 20.390 ug/l  
RT: 10.83 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

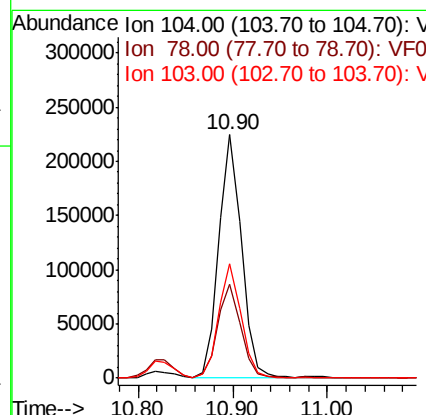
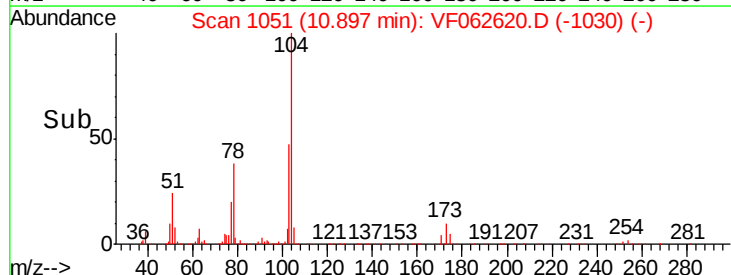
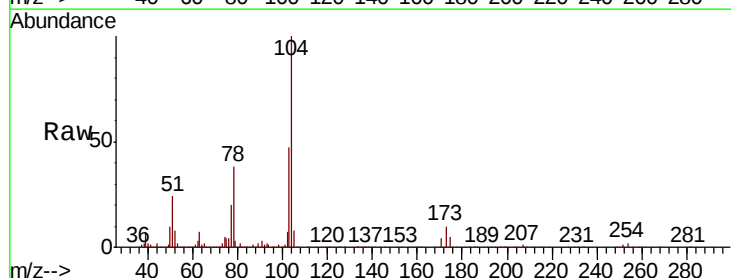
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

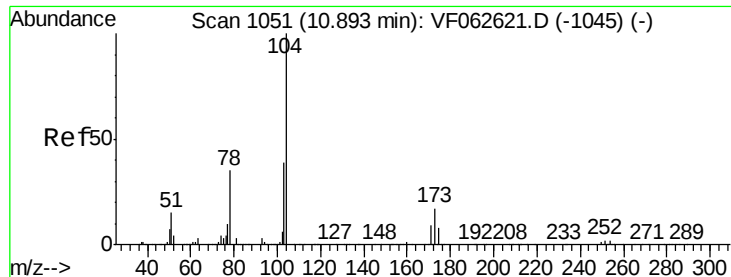
Tot Ion:106 Resp: 244550  
Ion Ratio Lower Upper  
106 100  
91 203.7 100.2 300.5



#70  
Styrene  
Concen: 20.592 ug/l  
RT: 10.90 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion:104 Resp: 375398  
Ion Ratio Lower Upper  
104 100  
78 38.5 31.9 47.9  
103 47.2 36.1 54.1





#71

Bromoform

Concen: 19.756 ug/l

RT: 10.89 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

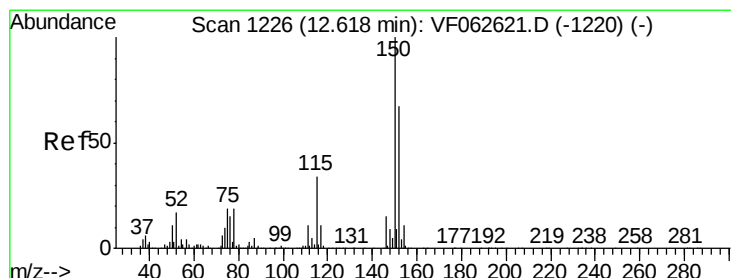
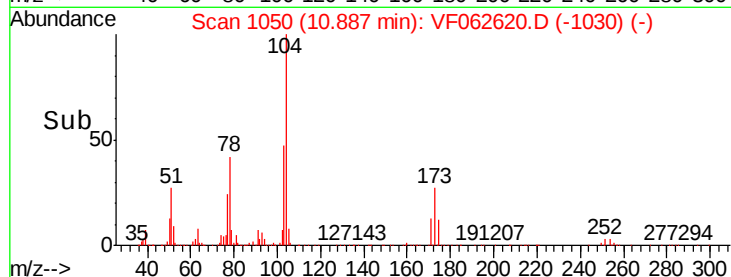
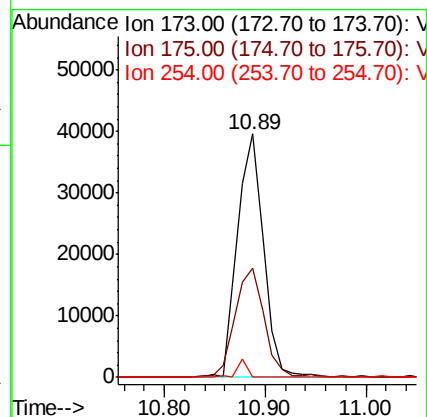
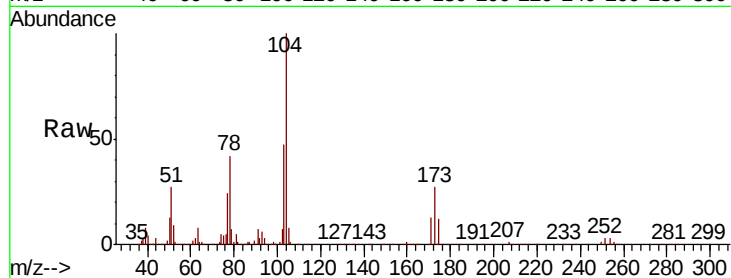
Tot Ion:173 Resp: 70842

Ion Ratio Lower Upper

173 100

175 45.0 25.3 75.9

254 0.3 0.2 0.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

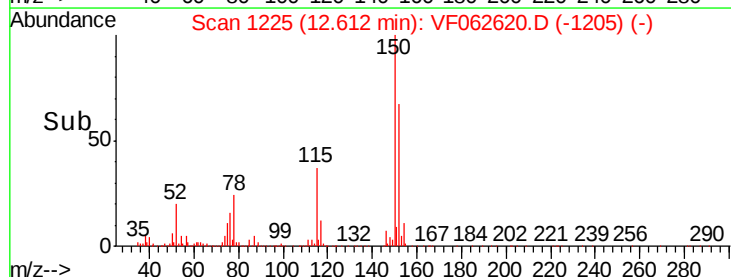
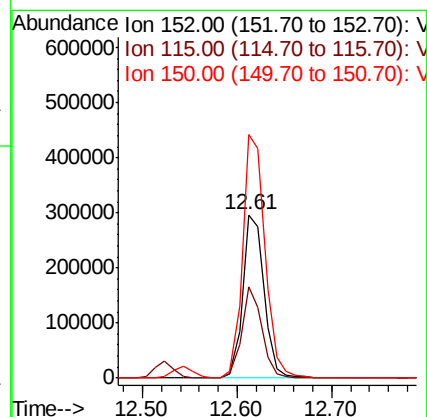
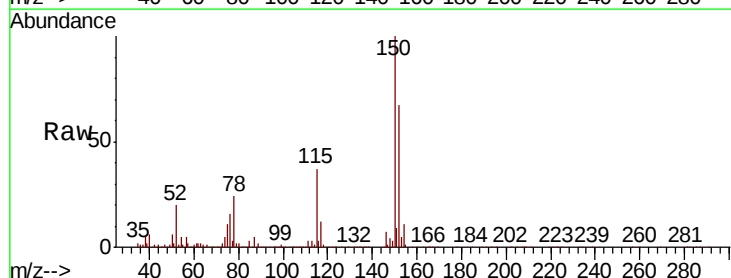
Tgt Ion:152 Resp: 465547

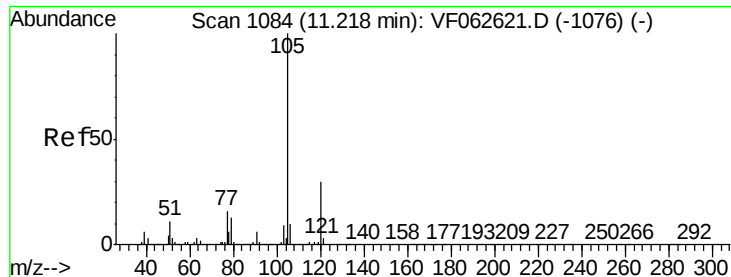
Ion Ratio Lower Upper

152 100

115 55.6 25.2 75.6

150 148.8 0.0 306.2





#73

Isopropylbenzene

Concen: 21.382 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

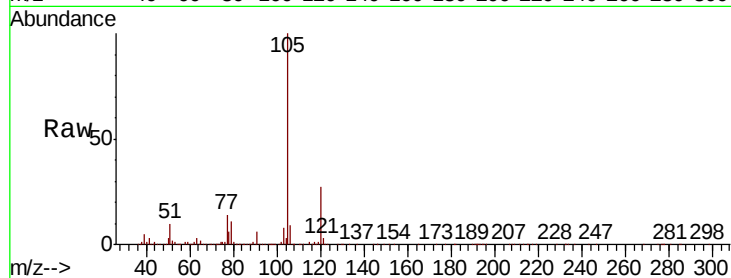
VSTDIC020

Tot Ion:105 Resp: 713444

Ion Ratio Lower Upper

105 100

120 27.2 14.8 44.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.22

400000

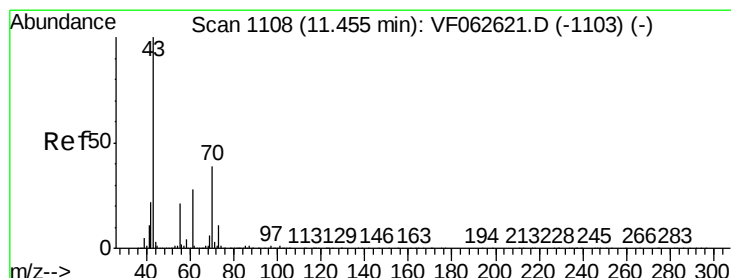
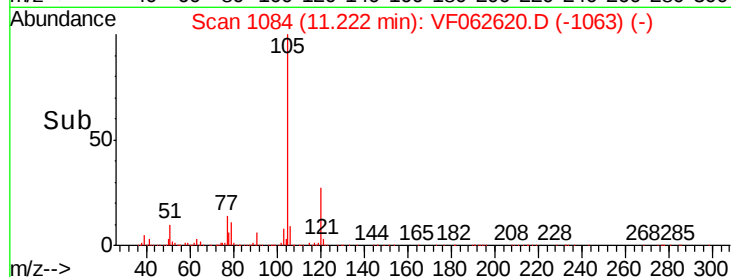
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 17.686 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Tgt Ion: 43 Resp: 182056

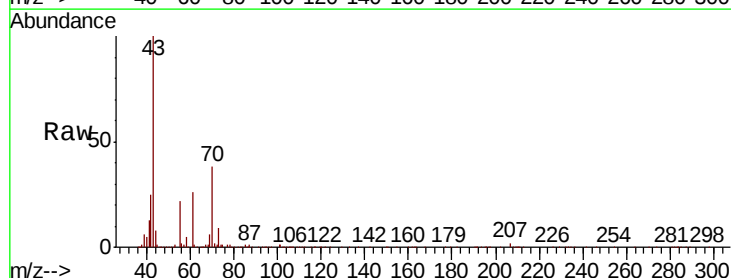
Ion Ratio Lower Upper

43 100

70 37.7 30.9 46.3

55 21.9 17.0 25.4

61 26.1 22.6 34.0



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

11.45

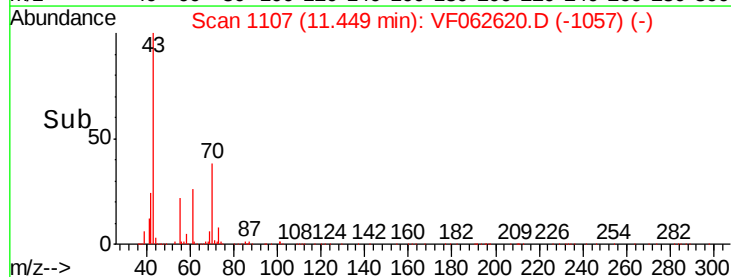
150000

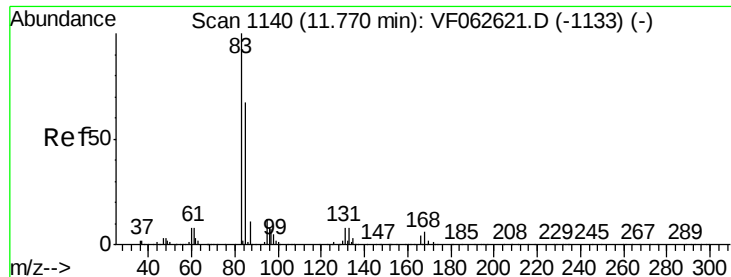
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.623 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

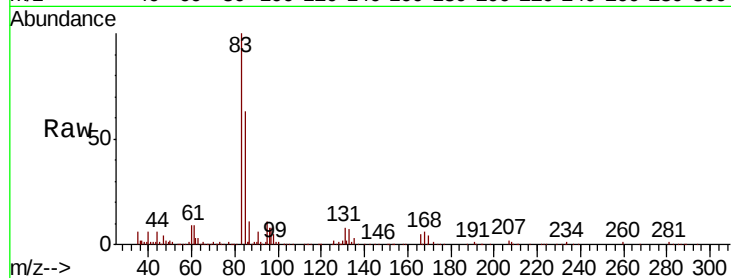
Tot Ion: 83 Resp: 133809

Ion Ratio Lower Upper

83 100

131 8.4 4.0 12.0

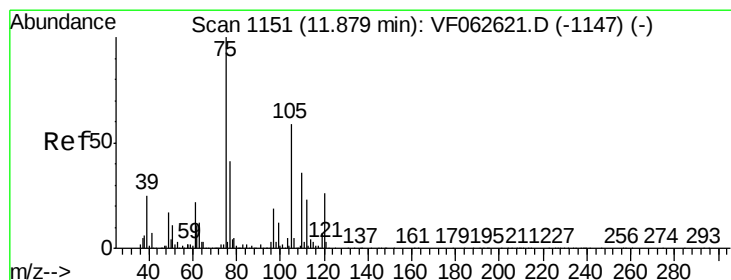
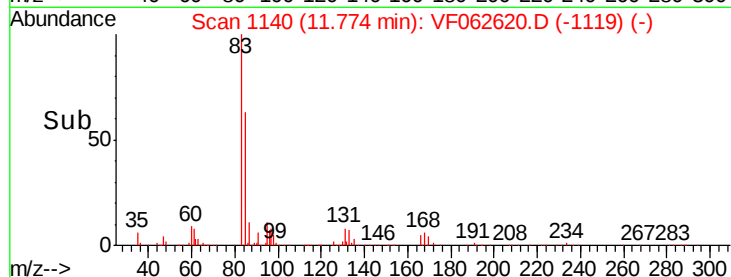
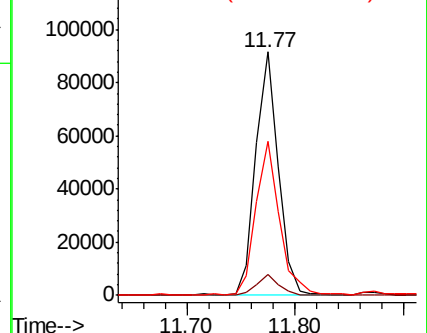
85 63.3 33.5 100.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.546 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VF062620.D

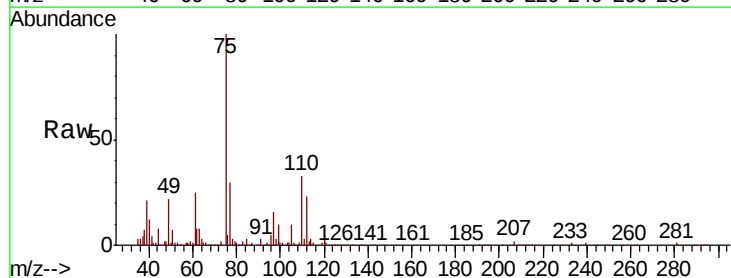
Acq: 16 May 2019 11:32

Tgt Ion: 75 Resp: 87577

Ion Ratio Lower Upper

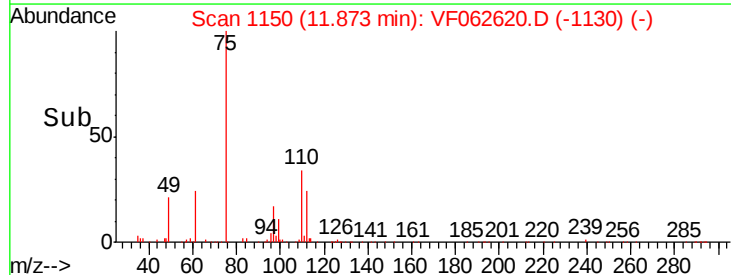
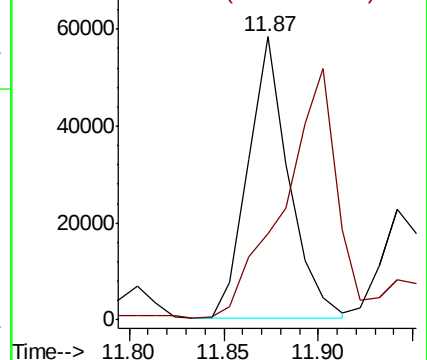
75 100

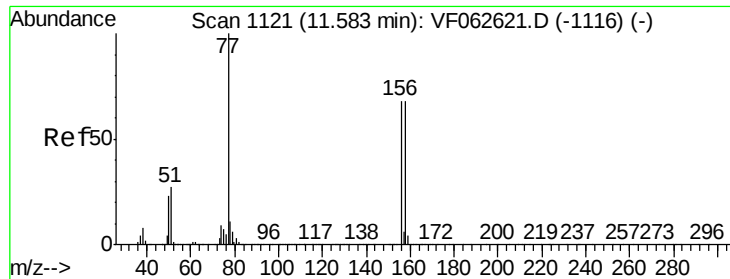
77 30.3 20.6 61.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 19.099 ug/l

RT: 11.59 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

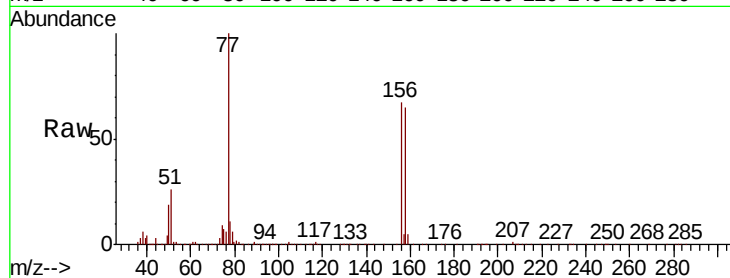
Tot Ion:156 Resp: 158405

Ion Ratio Lower Upper

156 100

77 149.9 73.6 220.8

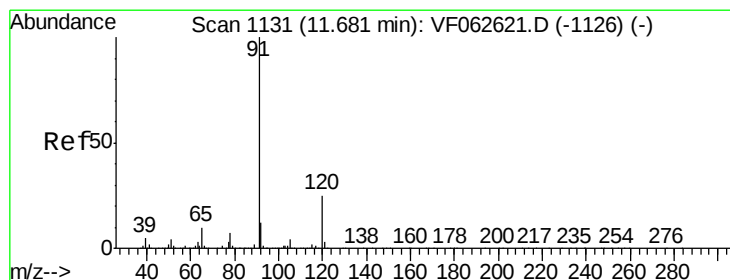
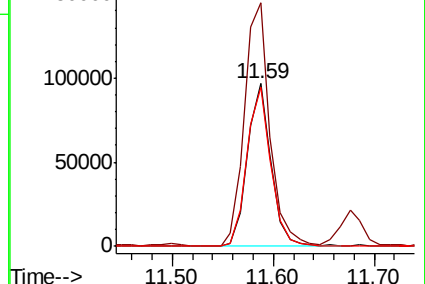
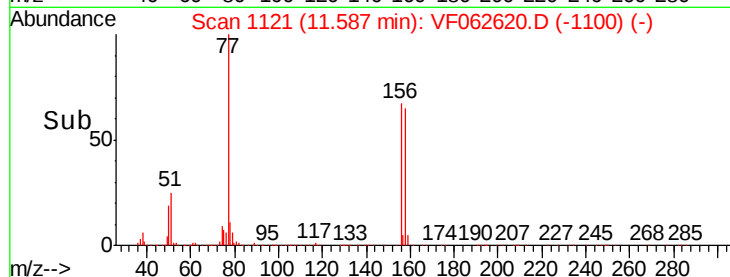
158 97.7 49.6 148.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 20.707 ug/l

RT: 11.68 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062620.D

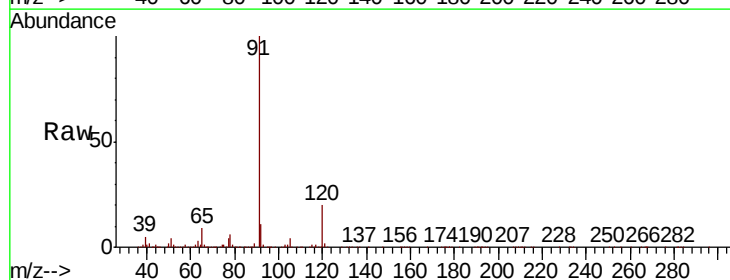
Acq: 16 May 2019 11:32

Tgt Ion: 91 Resp: 817681

Ion Ratio Lower Upper

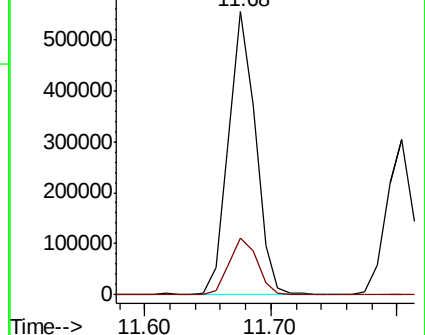
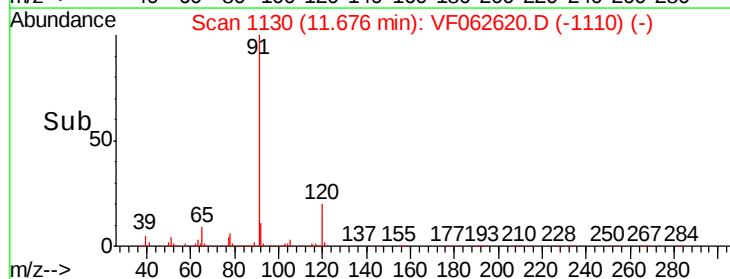
91 100

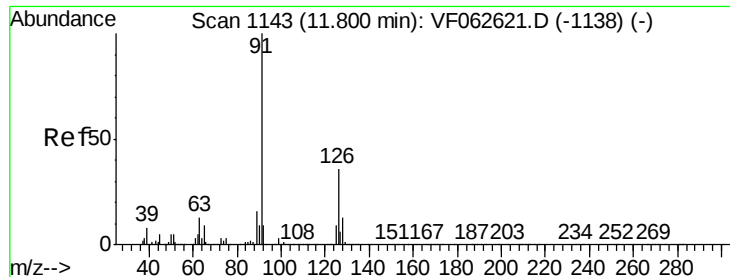
120 20.0 12.7 38.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.216 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

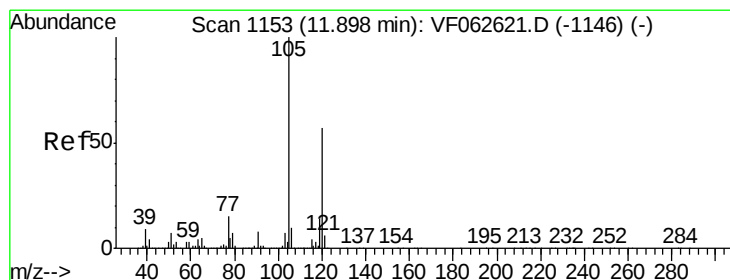
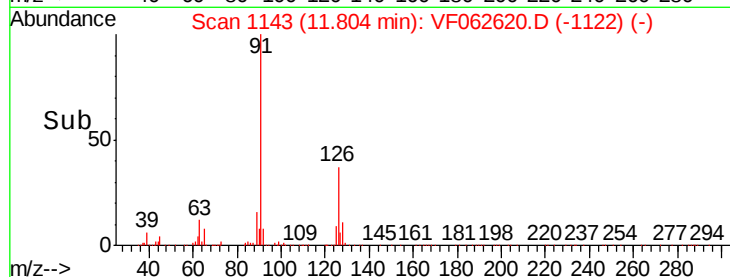
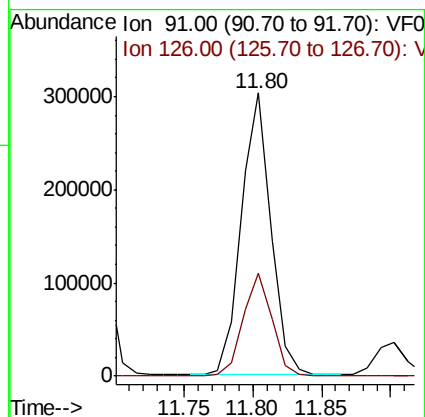
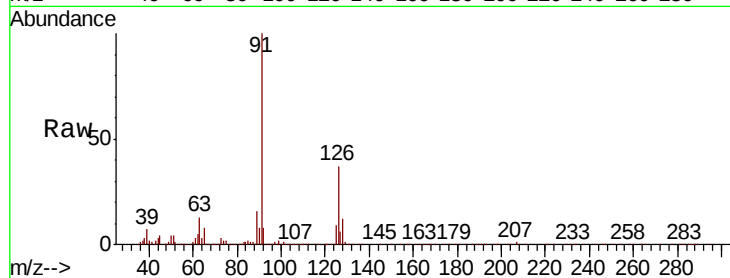
VSTDIC020

Tot Ion: 91 Resp: 449900

Ion Ratio Lower Upper

91 100

126 36.6 18.1 54.4



#80

1,3,5-Trimethylbenzene

Concen: 21.053 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062620.D

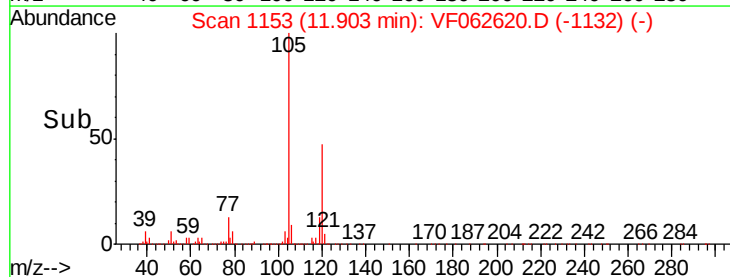
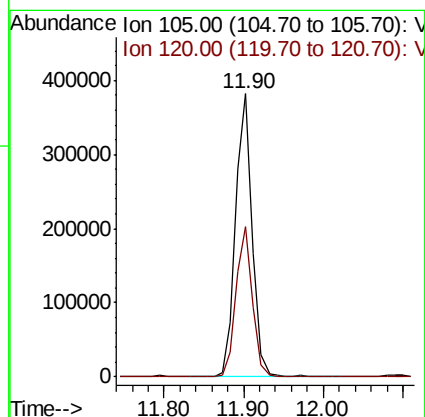
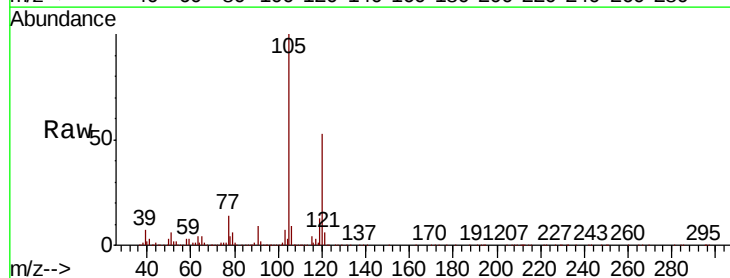
Acq: 16 May 2019 11:32

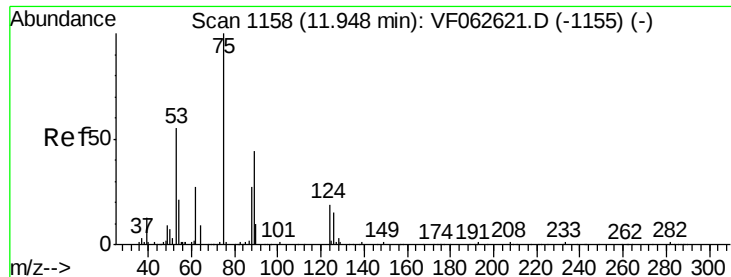
Tgt Ion: 105 Resp: 563277

Ion Ratio Lower Upper

105 100

120 53.2 28.7 86.3





#81

trans-1,4-Dichloro-2-butene

Concen: 19.850 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

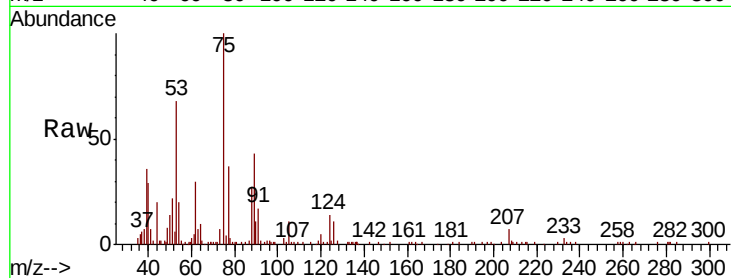
Tot Ion: 75 Resp: 49414

Ion Ratio Lower Upper

75 100

53 67.9 46.9 70.3

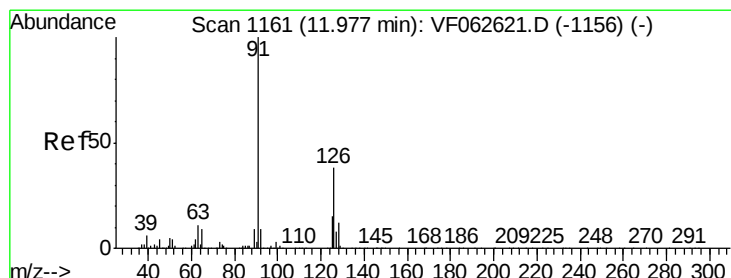
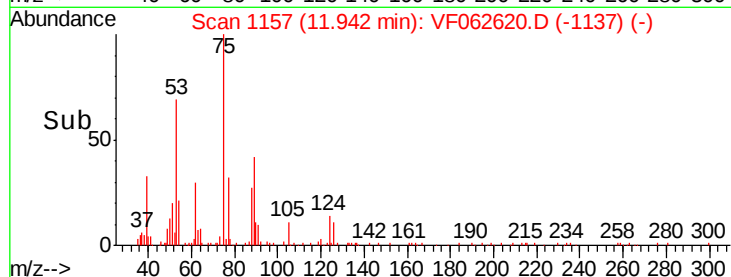
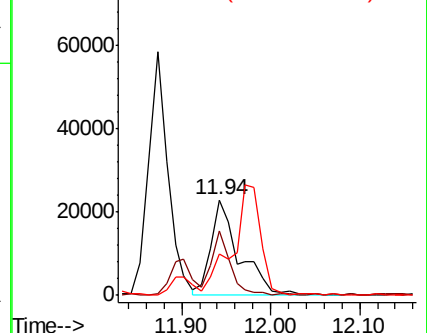
89 43.3 36.4 54.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 20.682 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VF062620.D

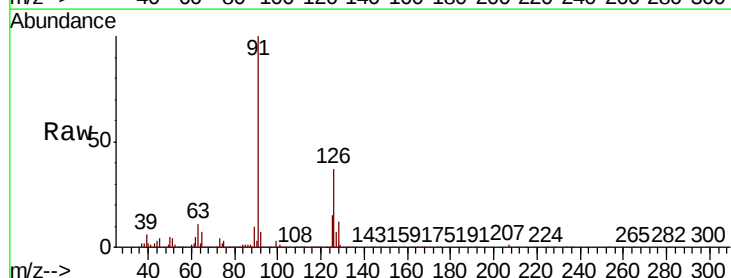
Acq: 16 May 2019 11:32

Tgt Ion: 91 Resp: 453882

Ion Ratio Lower Upper

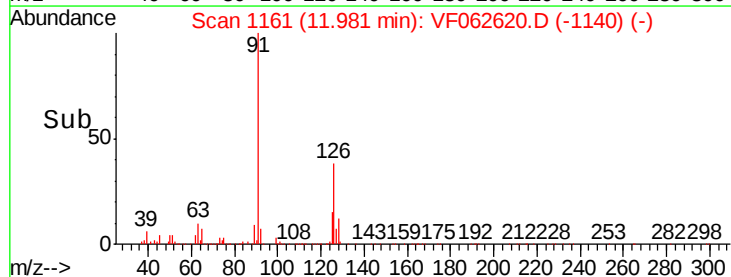
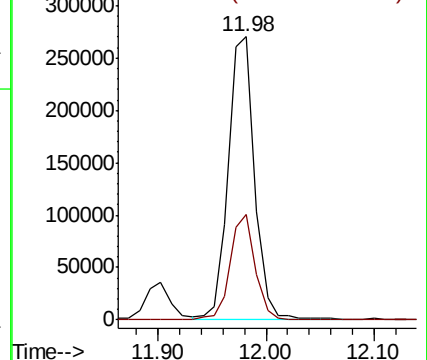
91 100

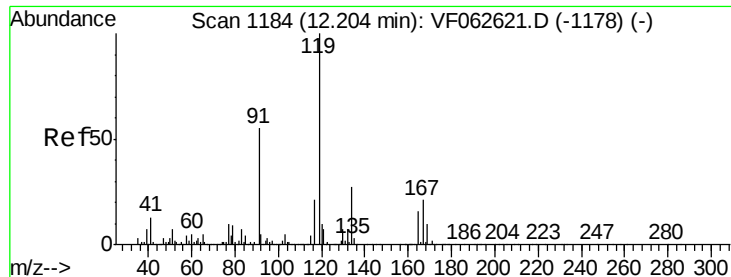
126 37.3 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

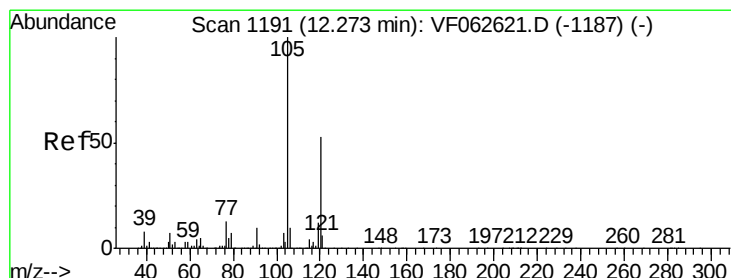
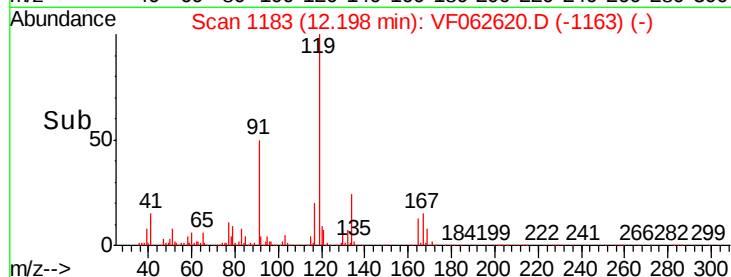
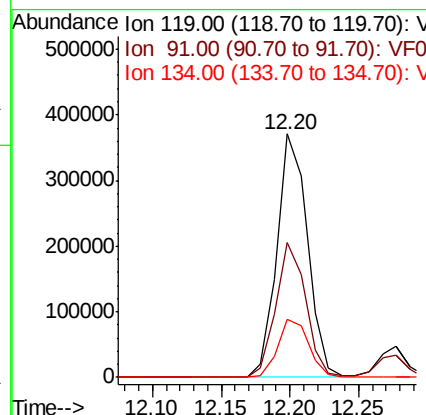
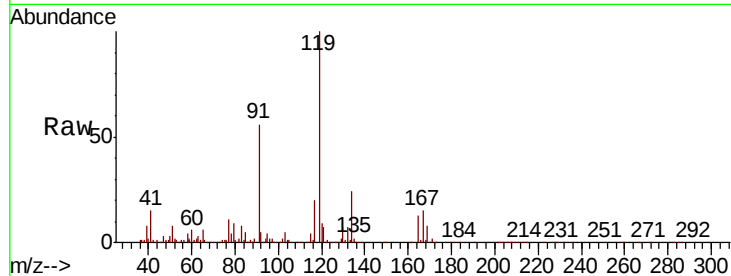




#83  
 tert-Butylbenzene  
 Concen: 21.018 ug/l  
 RT: 12.20 min Scan# 1183  
 Delta R.T. -0.01 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

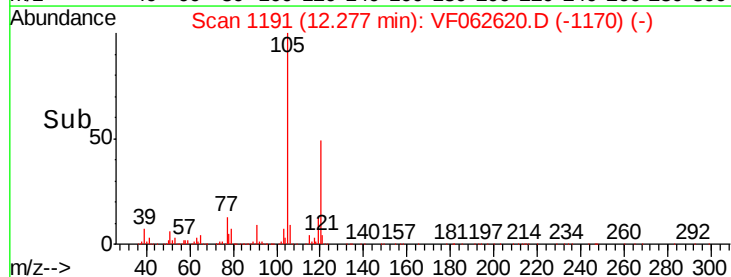
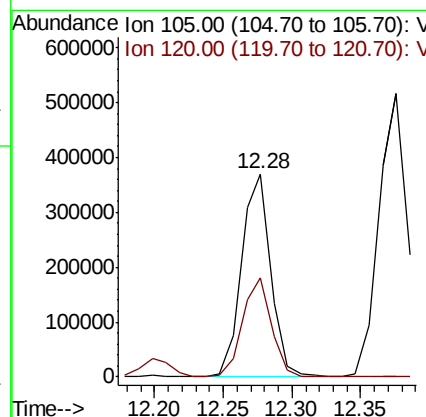
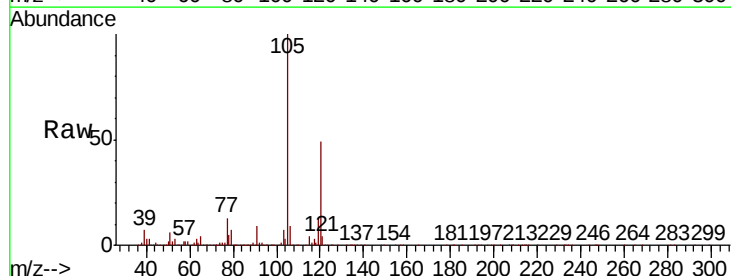
Instrument :  
 MSVOA\_F  
 ClientSampleID :  
 VSTDIC020

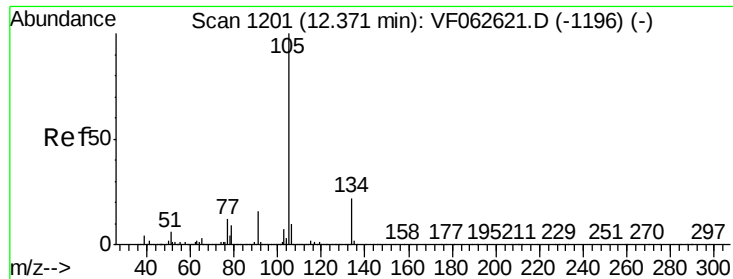
Tot Ion:119 Resp: 570504  
 Ion Ratio Lower Upper  
 119 100  
 91 55.6 27.3 81.9  
 134 23.9 13.6 40.7



#84  
 1,2,4-Trimethylbenzene  
 Concen: 21.038 ug/l  
 RT: 12.28 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

Tgt Ion:105 Resp: 544773  
 Ion Ratio Lower Upper  
 105 100  
 120 48.7 26.7 80.1





#85

sec-Butylbenzene

Concen: 20.635 ug/l

RT: 12.38 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

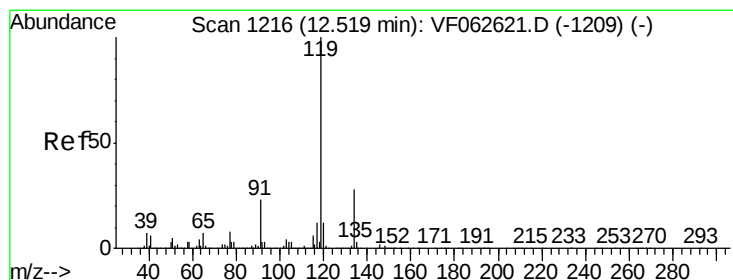
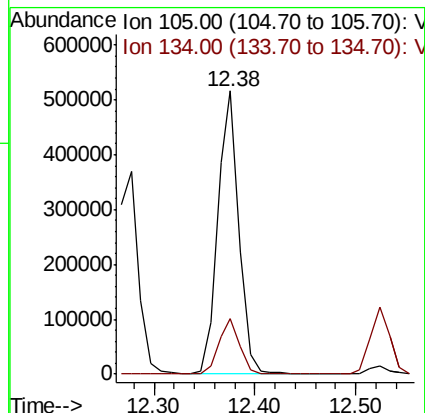
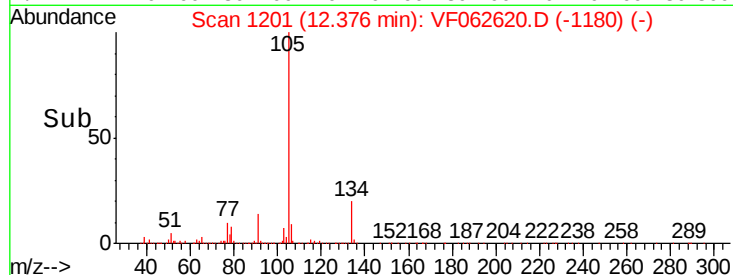
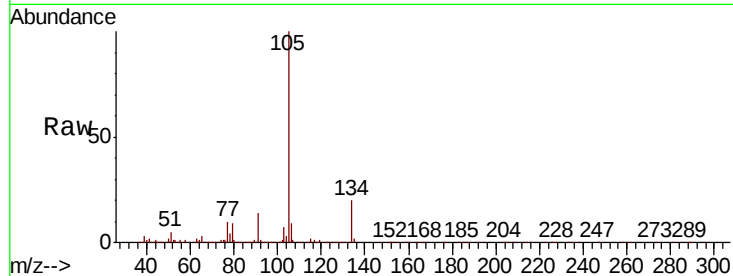
VSTDIC020

Tot Ion:105 Resp: 751700

Ion Ratio Lower Upper

105 100

134 19.7 10.8 32.4



#86

p-Isopropyltoluene

Concen: 20.880 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

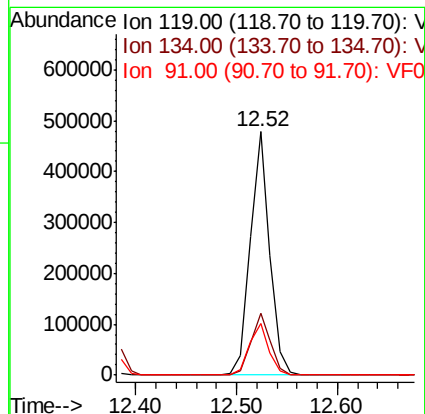
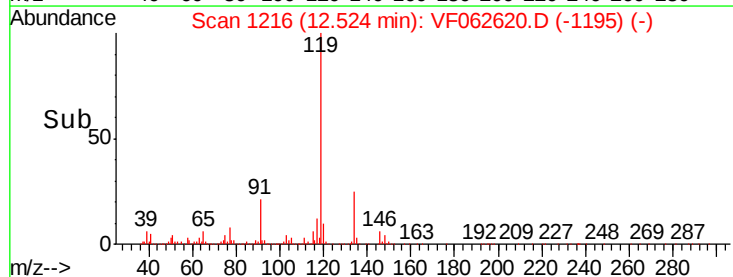
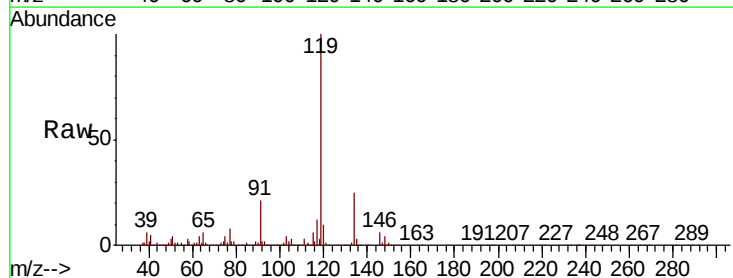
Tgt Ion:119 Resp: 641018

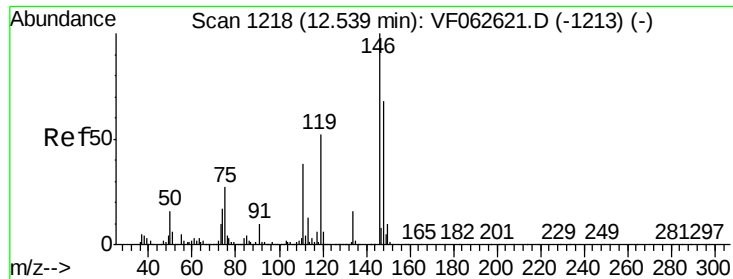
Ion Ratio Lower Upper

119 100

134 25.4 14.1 42.3

91 21.5 11.4 34.2

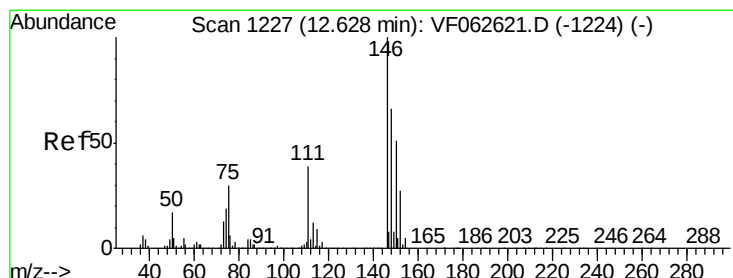
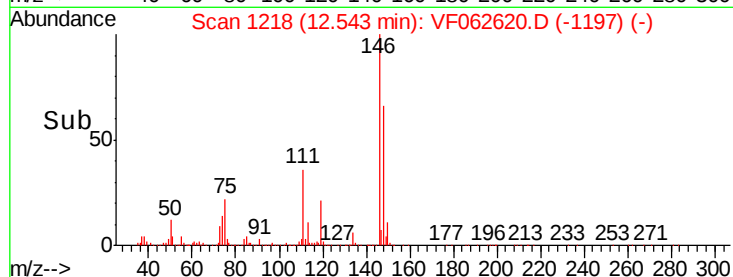
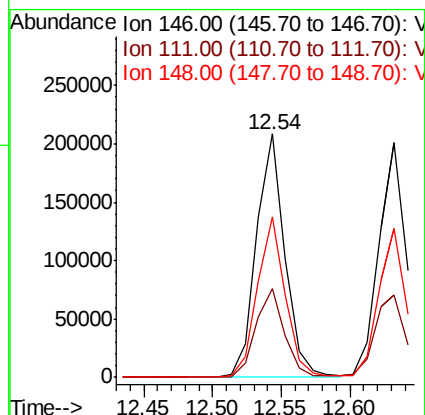
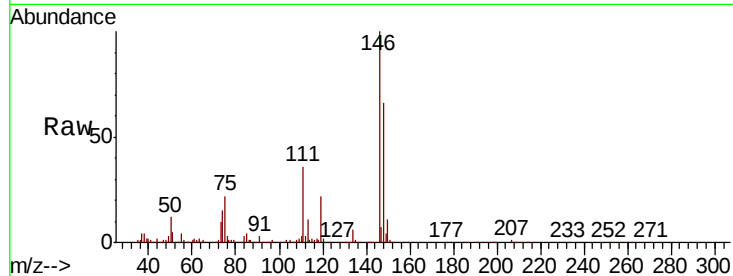




#87  
 1,3-Dichlorobenzene  
 Concen: 20.096 ug/l  
 RT: 12.54 min Scan# 1218  
 Delta R.T. 0.00 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

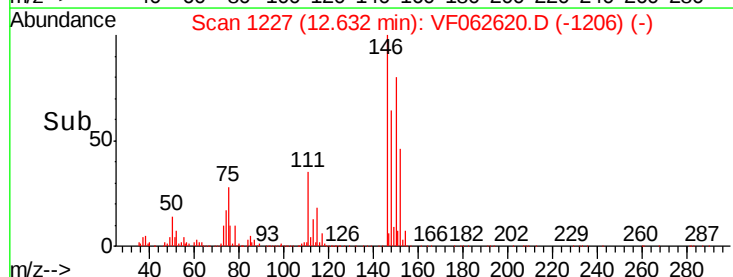
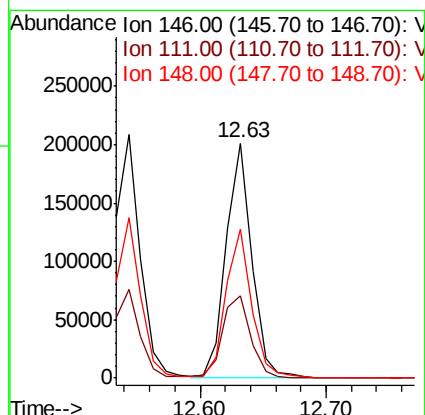
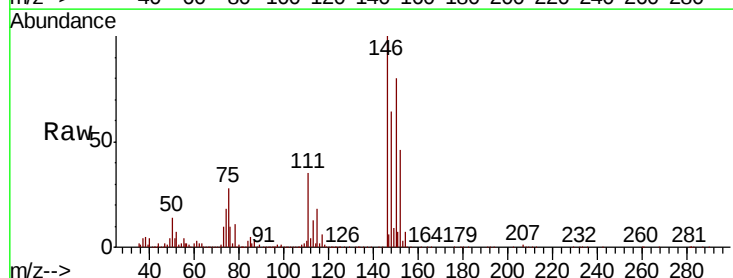
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

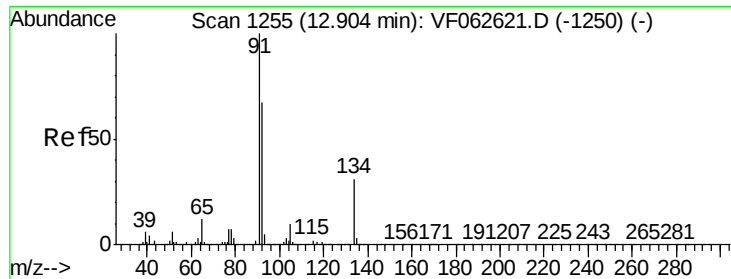
Tot Ion:146 Resp: 301547  
 Ion Ratio Lower Upper  
 146 100  
 111 36.4 18.9 56.9  
 148 65.9 34.0 101.8



#88  
 1,4-Dichlorobenzene  
 Concen: 20.169 ug/l  
 RT: 12.63 min Scan# 1227  
 Delta R.T. 0.00 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

Tgt Ion:146 Resp: 284014  
 Ion Ratio Lower Upper  
 146 100  
 111 34.8 19.4 58.2  
 148 63.6 33.2 99.6

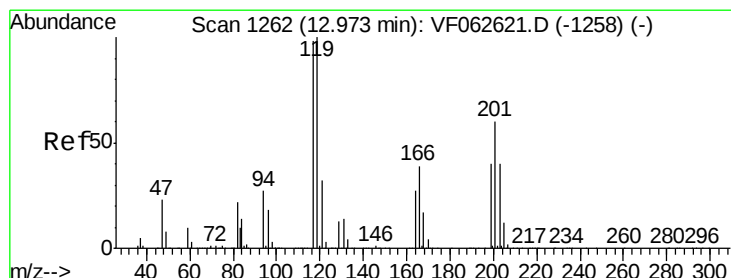
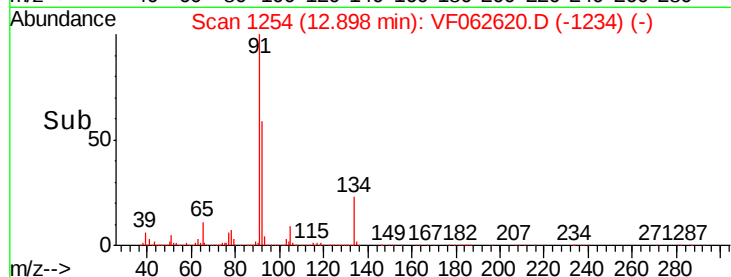
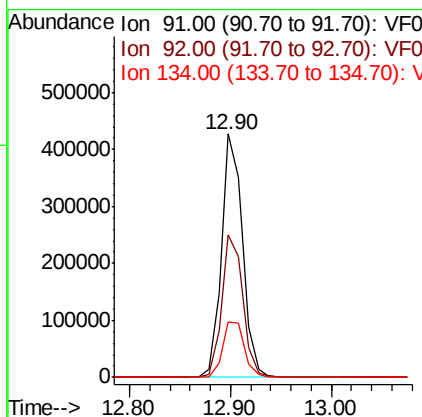
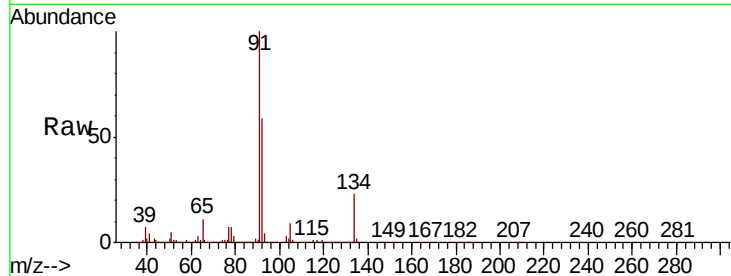




#89  
n-Butylbenzene  
Concen: 20.496 ug/l  
RT: 12.90 min Scan# 1254  
Delta R.T. -0.01 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

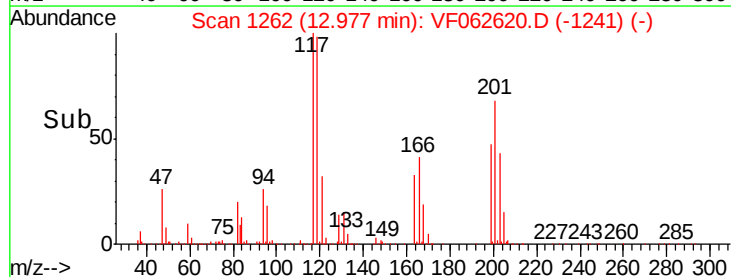
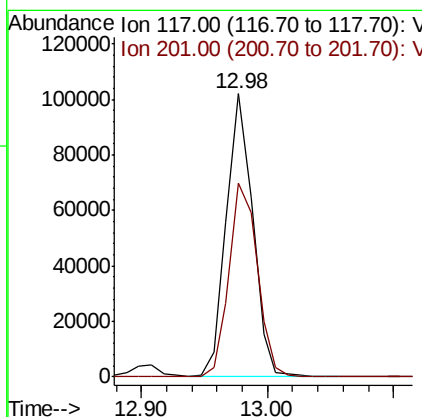
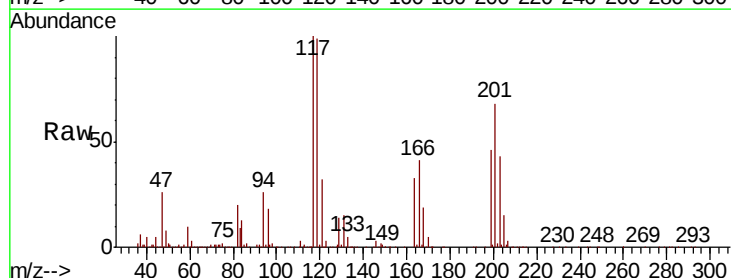
Instrument :  
MSVOA\_F  
ClientSampled :  
VSTDIC020

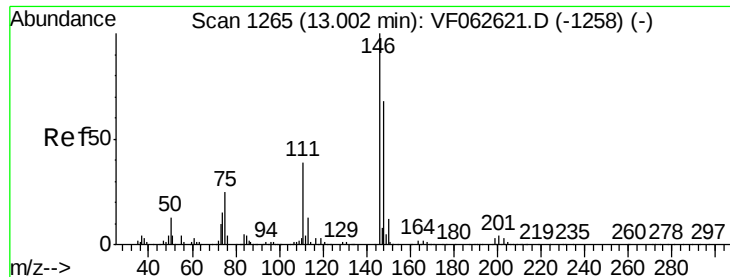
Tot Ion: 91 Resp: 620370  
Ion Ratio Lower Upper  
91 100  
92 58.8 33.3 99.8  
134 22.9 15.4 46.4



#90  
Hexachloroethane  
Concen: 20.206 ug/l  
RT: 12.98 min Scan# 1262  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion: 117 Resp: 148806  
Ion Ratio Lower Upper  
117 100  
201 68.3 30.7 92.1





#91

1,2-Dichlorobenzene

Concen: 19.999 ug/l

RT: 13.01 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC020

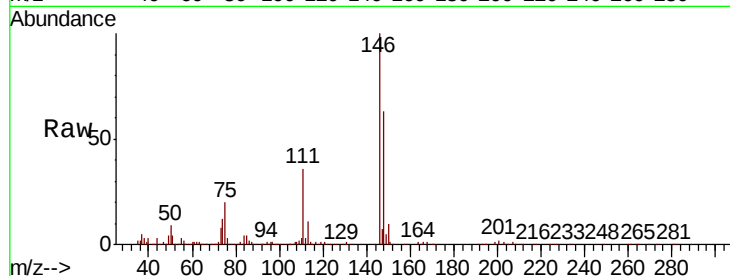
Tot Ion:146 Resp: 267505

Ion Ratio Lower Upper

146 100

111 35.8 19.8 59.3

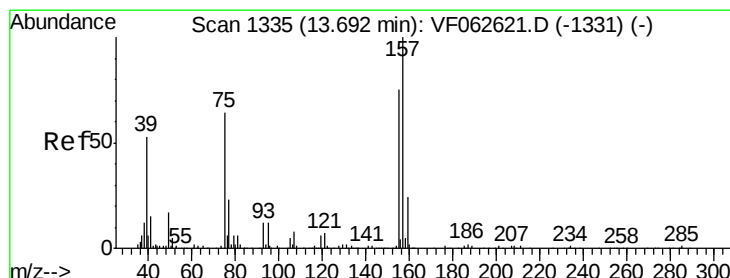
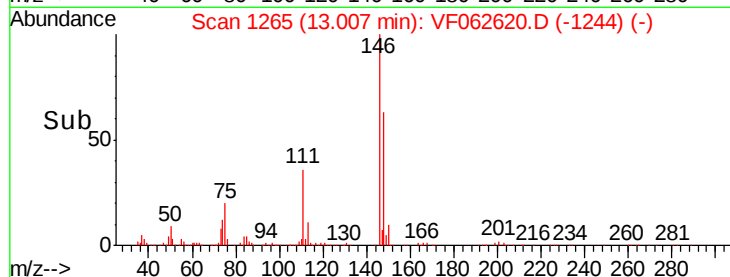
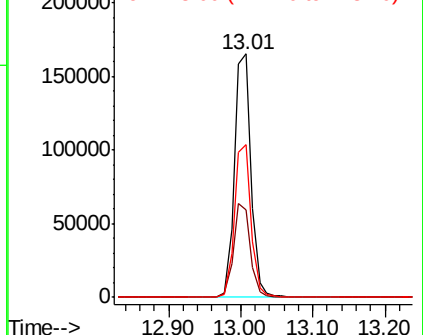
148 62.7 34.1 102.2



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: 18.747 ug/l

RT: 13.70 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VF062620.D

Acq: 16 May 2019 11:32

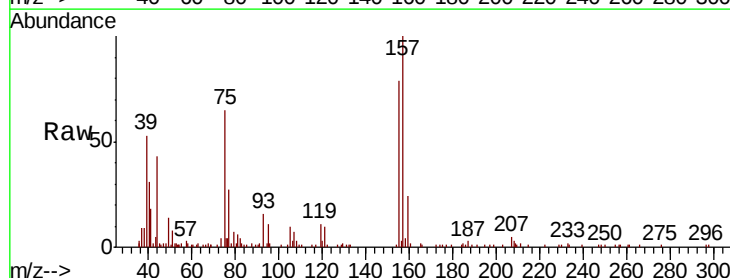
Tgt Ion: 75 Resp: 15250

Ion Ratio Lower Upper

75 100

155 120.8 58.1 174.3

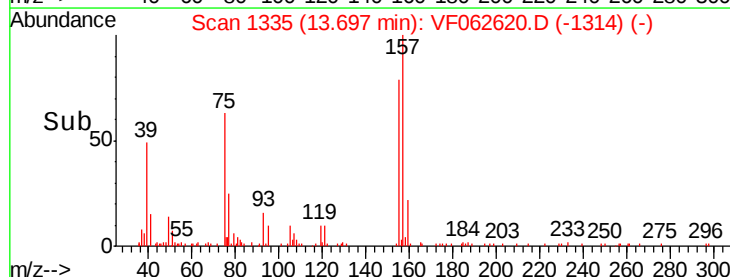
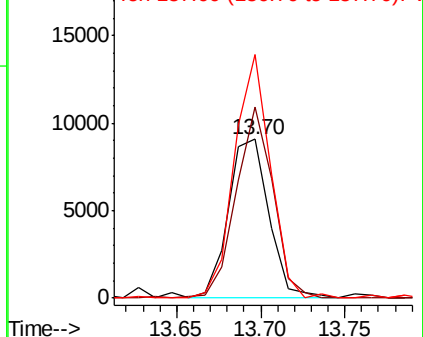
157 153.5 77.8 233.4

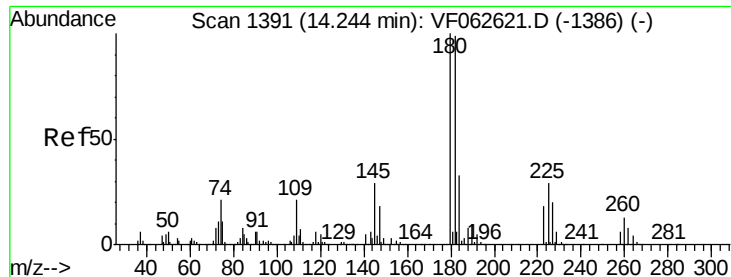


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

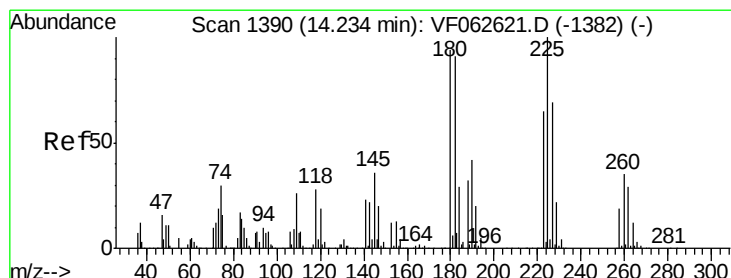
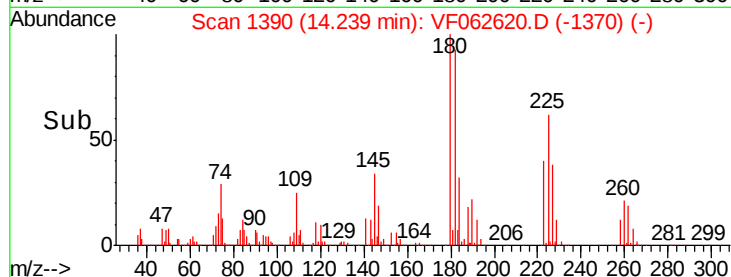
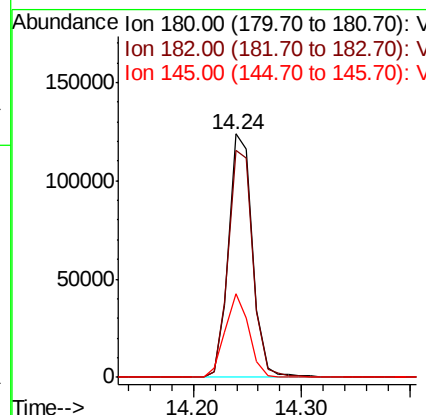
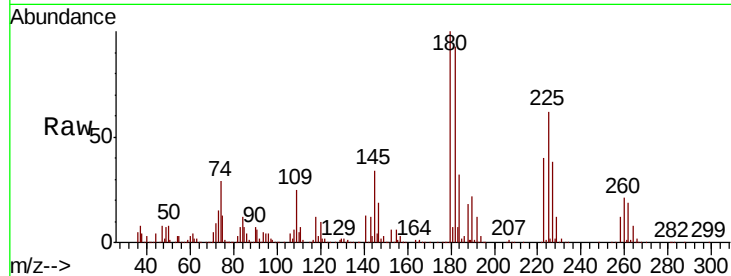




#93  
 1,2,4-Trichlorobenzene  
 Concen: 19.932 ug/l  
 RT: 14.24 min Scan# 1390  
 Delta R.T. -0.01 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

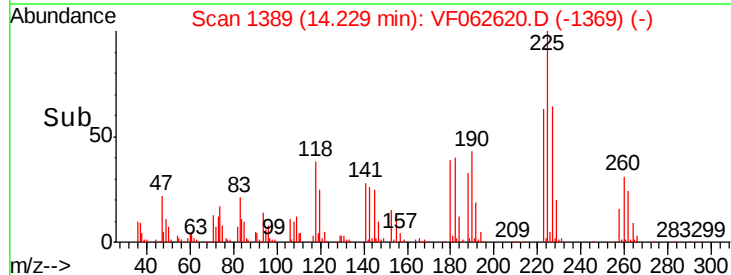
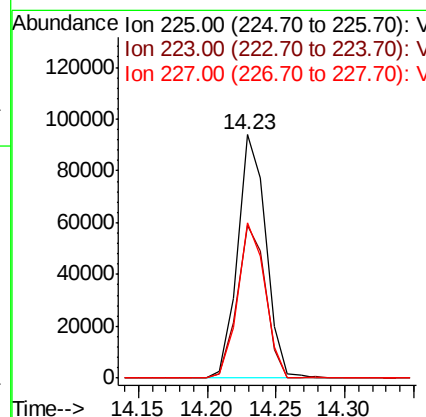
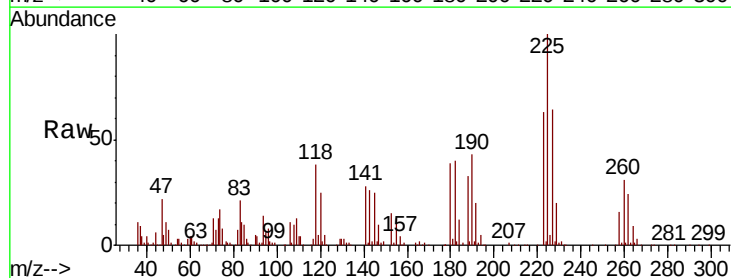
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC020

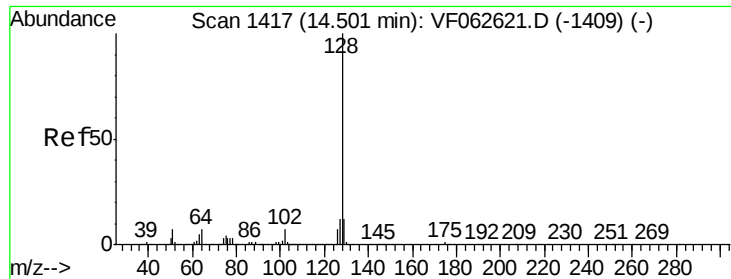
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.4  | 49.7  | 149.1 |
| 145     | 34.4  | 14.6  | 44.0  |



#94  
 Hexachlorobutadiene  
 Concen: 20.141 ug/l  
 RT: 14.23 min Scan# 1389  
 Delta R.T. -0.01 min  
 Lab File: VF062620.D  
 Acq: 16 May 2019 11:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.6  | 32.5  | 97.4  |
| 227     | 63.8  | 34.5  | 103.5 |

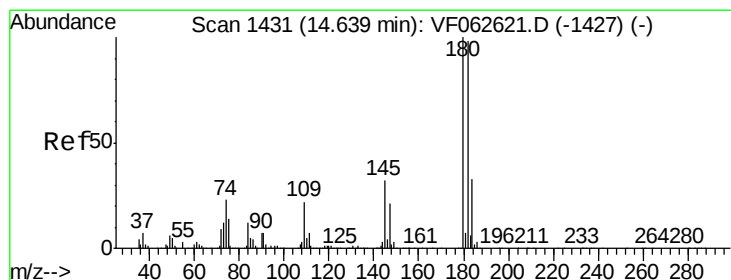
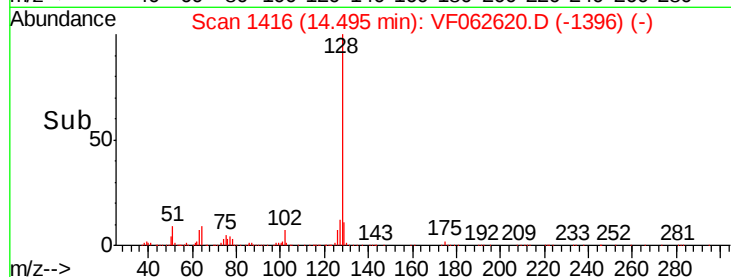
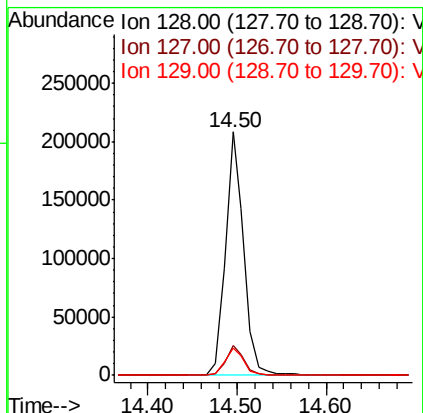
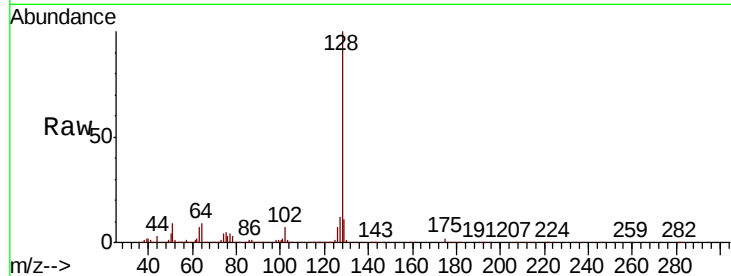




#95  
Naphthalene  
Concen: 17.282 ug/l  
RT: 14.50 min Scan# 1416  
Delta R.T. -0.01 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC020

Tot Ion:128 Resp: 300591  
Ion Ratio Lower Upper  
128 100  
127 12.2 9.7 14.5  
129 11.1 9.3 13.9



#96  
1,2,3-Trichlorobenzene  
Concen: 19.447 ug/l  
RT: 14.64 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VF062620.D  
Acq: 16 May 2019 11:32

Tgt Ion:180 Resp: 176366  
Ion Ratio Lower Upper  
180 100  
182 99.1 48.9 146.7  
145 29.3 16.1 48.2

