

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051519\  
 Data File : VF062615.D  
 Acq On : 15 May 2019 18:13  
 Operator : FY/SY  
 Sample : K2823-01RE  
 Misc : 5.28g/5mL/MSVOA F/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 10-BRE

Quant Time: May 16 03:30:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 05:06:28 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 834      | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.71  | 114  | 67       | 50.00 | ug/l  | -0.09    |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 64       | 50.00 | ug/l  | -0.17    |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 96       | 50.00 | ug/l  | -0.01    |

|                             |        |     |          |        |          |       |
|-----------------------------|--------|-----|----------|--------|----------|-------|
| System Monitoring Compounds |        |     |          |        |          |       |
| 33) 1,2-Dichloroethane-d4   | 5.03   | 65  | 490      | 77.77  | ug/l     | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 155.54%  |       |
| 35) Dibromofluoromethane    | 4.28   | 113 | 373      | 748.00 | ug/l     | -0.06 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 1496.00% |       |
| 50) Toluene-d8              | 7.65   | 98  | 119      | 101.27 | ug/l     | -0.09 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 202.54%  |       |
| 62) 4-Bromofluorobenzene    | 11.36  | 95  | 251      | 611.63 | ug/l     | -0.15 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 1223.26% |       |

| Target Compounds              |      |     |      |           |        | Qvalue |
|-------------------------------|------|-----|------|-----------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.93 | 85  | 360  | 47.696    | ug/l   | 96     |
| 3) Chloromethane              | 1.10 | 50  | 897  | 94.311    | ug/l   | 97     |
| 4) Vinyl Chloride             | 1.25 | 62  | 360  | 38.031    | ug/l   | 95     |
| 5) Bromomethane               | 1.50 | 94  | 535  | Below Cal |        | 97     |
| 6) Chloroethane               | 1.46 | 64  | 994  | 276.511   | ug/l # | 78     |
| 7) Trichlorofluoromethane     | 1.55 | 101 | 120  | 9.252     | ug/l # | 18     |
| 8) Diethyl Ether              | 1.72 | 74  | 180  | 61.912    | ug/l   | 82     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.95 | 101 | 76   | 8.591     | ug/l # | 1      |
| 10) Methyl Iodide             | 1.93 | 142 | 136  | 8.631     | ug/l # | 86     |
| 11) Tert butyl alcohol        | 2.67 | 59  | 509  | 1341.825  | ug/l # | 73     |
| 12) 1,1-Dichloroethene        | 1.91 | 96  | 731  | 96.457    | ug/l # | 6      |
| 13) Acrolein                  | 2.23 | 56  | 230  | 914.887   | ug/l   | 88     |
| 14) Allyl chloride            | 2.19 | 41  | 546  | 70.410    | ug/l # | 59     |
| 15) Acrylonitrile             | 2.98 | 53  | 961  | 708.209   | ug/l   | 88     |
| 16) Acetone                   | 2.30 | 43  | 1137 | 889.350   | ug/l # | 53     |
| 17) Carbon Disulfide          | 1.95 | 76  | 533  | 31.475    | ug/l # | 71     |
| 18) Methyl Acetate            | 2.58 | 43  | 677  | 280.159   | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 2.52 | 73  | 576  | 42.687    | ug/l # | 59     |
| 20) Methylene Chloride        | 2.29 | 84  | 105  | 10.768    | ug/l # | 67     |
| 21) trans-1,2-Dichloroethene  | 2.46 | 96  | 323  | 42.291    | ug/l # | 1      |
| 22) Diisopropyl ether         | 2.94 | 45  | 341  | 18.913    | ug/l # | 1      |
| 23) Vinyl Acetate             | 3.32 | 43  | 1221 | 123.809   | ug/l # | 75     |
| 24) 1,1-Dichloroethane        | 3.03 | 63  | 328  | 23.897    | ug/l # | 86     |
| 25) 2-Butanone                | 4.61 | 43  | 2308 | 798.532   | ug/l   | 92     |
| 26) 2,2-Dichloropropane       | 3.67 | 77  | 515  | 69.524    | ug/l   | 77     |
| 27) cis-1,2-Dichloroethene    | 3.63 | 96  | 1196 | 110.837   | ug/l   | 9      |
| 28) Bromochloromethane        | 3.93 | 49  | 268  | 34.737    | ug/l # | 9      |
| 29) Tetrahydrofuran           | 4.24 | 42  | 742  | 606.657   | ug/l # | 74     |
| 30) Chloroform                | 4.04 | 83  | 223  | 13.540    | ug/l   | 94     |
| 31) Cyclohexane               | 3.89 | 56  | 438  | 30.618    | ug/l # | 19     |
| 32) 1,1,1-Trichloroethane     | 4.28 | 97  | 452  | 40.716    | ug/l # | 52     |
| 36) 1,1-Dichloropropene       | 4.42 | 75  | 587  | 1012.506  | ug/l # | 43     |
| 37) Ethyl Acetate             | 4.25 | 43  | 794  | 3332.756  | ug/l # | 2      |
| 38) Carbon Tetrachloride      | 4.20 | 117 | 195  | 410.020   | ug/l # | 59     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051519\  
 Data File : VF062615.D  
 Acq On : 15 May 2019 18:13  
 Operator : FY/SY  
 Sample : K2823-01RE  
 Misc : 5.28g/5mL/MSVOA F/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 10-BRE

Quant Time: May 16 03:30:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 05:06:28 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc       | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------------|--------|----------|
| -----                          |       |      |          |            |        |          |
| 39) Methylcyclohexane          | 5.63  | 83   | 335      | 493.524    | ug/l   | 92       |
| 40) Benzene                    | 4.82  | 78   | 1069     | 648.138    | ug/l # | 14       |
| 41) Methacrylonitrile          | 4.90  | 41   | 1324     | 9813.809   | ug/l # | 66       |
| 42) 1,2-Dichloroethane         | 5.12  | 62   | 146      | 417.146    | ug/l   | 71       |
| 43) Isopropyl Acetate          | 7.04  | 43   | 935      | 3316.549   | ug/l # | 39       |
| 44) Trichloroethene            | 5.60  | 130  | 105      | 235.732    | ug/l   | 73       |
| 45) 1,2-Dichloropropane        | 6.36  | 63   | 347      | 835.834    | ug/l   | 91       |
| 46) Dibromomethane             | 6.18  | 93   | 323      | 1391.598   | ug/l # | 36       |
| 47) Bromodichloromethane       | 6.46  | 83   | 147      | 294.607    | ug/l # | 81       |
| 48) Methyl methacrylate        | 6.65  | 41   | 1356     | 8787.258   | ug/l   | 91       |
| 49) 1,4-Dioxane                | 6.78  | 88   | 219      | 107695.436 | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone       | 8.28  | 43   | 460      | 2226.837   | ug/l # | 34       |
| 52) Toluene                    | 7.76  | 92   | 83       | 100.249    | ug/l   | 86       |
| 53) t-1,3-Dichloropropene      | 8.32  | 75   | 273      | 692.552    | ug/l # | 18       |
| 54) cis-1,3-Dichloropropene    | 7.36  | 75   | 257      | 461.358    | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane      | 8.52  | 97   | 141      | 568.787    | ug/l # | 35       |
| 56) Ethyl methacrylate         | 8.64  | 69   | 371      | 1365.496   | ug/l # | 76       |
| 57) 1,3-Dichloropropane        | 8.94  | 76   | 419      | 1024.076   | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 7.36  | 63   | 89       | 1046.926   | ug/l # | 53       |
| 59) 2-Hexanone                 | 9.49  | 43   | 409      | 2997.899   | ug/l   | 74       |
| 60) Dibromochloromethane       | 8.72  | 129  | 70       | 222.249    | ug/l   | 70       |
| 61) 1,2-Dibromoethane          | 8.86  | 107  | 85       | 341.875    | ug/l   | 100      |
| 64) Tetrachloroethene          | 8.33  | 164  | 213      | 503.654    | ug/l # | 1        |
| 65) Chlorobenzene              | 9.93  | 112  | 164      | 147.396    | ug/l # | 40       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.18 | 131  | 95       | 207.872    | ug/l   | 91       |
| 67) Ethyl Benzene              | 9.93  | 91   | 391      | 197.791    | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.21 | 106  | 79       | 112.749    | ug/l   | 99       |
| 69) o-Xylene                   | 10.86 | 106  | 151      | 205.437    | ug/l   | 43       |
| 70) Styrene                    | 10.87 | 104  | 140      | 125.351    | ug/l # | 1        |
| 71) Bromoform                  | 10.89 | 173  | 71       | 329.954    | ug/l # | 29       |
| 73) Isopropylbenzene           | 11.21 | 105  | 69       | 10.690     | ug/l # | 48       |
| 74) N-amyl acetate             | 11.46 | 43   | 466      | 297.328    | ug/l # | 51       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.77 | 83   | 376      | 284.342    | ug/l # | 69       |
| 76) 1,2,3-Trichloropropane     | 11.74 | 75   | 226      | 266.591    | ug/l   | 94       |
| 77) Bromobenzene               | 11.74 | 156  | 68       | 46.618     | ug/l   | 65       |
| 78) n-propylbenzene            | 11.69 | 91   | 268      | 34.907     | ug/l # | 52       |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 120      | 28.321     | ug/l # | 41       |
| 80) 1,3,5-Trimethylbenzene     | 11.99 | 105  | 118      | 23.354     | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.93 | 75   | 215      | 595.021    | ug/l # | 27       |
| 82) 4-Chlorotoluene            | 11.95 | 91   | 411      | 99.204     | ug/l # | 40       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 186      | 35.192     | ug/l # | 78       |
| 84) 1,2,4-Trimethylbenzene     | 12.29 | 105  | 330      | 66.489     | ug/l   | 95       |
| 85) sec-Butylbenzene           | 12.37 | 105  | 186      | 25.921     | ug/l # | 59       |
| 86) p-Isopropyltoluene         | 12.53 | 119  | 481      | 81.434     | ug/l # | 51       |
| 87) 1,3-Dichlorobenzene        | 12.54 | 146  | 66       | 23.134     | ug/l # | 23       |
| 88) 1,4-Dichlorobenzene        | 12.65 | 146  | 308      | 115.084    | ug/l # | 23       |
| 89) n-Butylbenzene             | 12.90 | 91   | 387      | 64.366     | ug/l # | 76       |
| 90) Hexachloroethane           | 13.00 | 117  | 141      | 93.192     | ug/l # | 51       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 151      | 59.660     | ug/l # | 24       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.69 | 75   | 380      | 2339.467   | ug/l # | 1        |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051519\  
Data File : VF062615.D  
Acq On : 15 May 2019 18:13  
Operator : FY/SY  
Sample : K2823-01RE  
Misc : 5.28g/5mL/MSVOA F/SOIL  
ALS Vial : 15 Sample Multiplier: 1

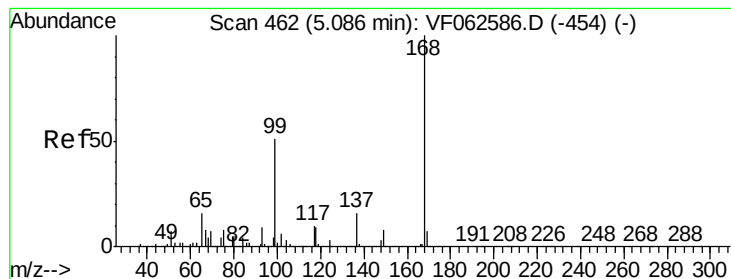
Instrument :  
MSVOA\_F  
ClientSampleId :  
10-BRE

Quant Time: May 16 03:30:28 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 15 05:06:28 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|-------|------|----------|--------|--------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.33 | 180  | 70       | 39.772 | ug/l # | 54       |
| 94) Hexachlorobutadiene    | 14.30 | 225  | 64       | 50.058 | ug/l # | 38       |
| 95) Naphthalene            | 14.53 | 128  | 99       | 34.559 | ug/l # | 1        |
| 96) 1,2,3-Trichlorobenzene | 14.65 | 180  | 161      | 98.605 | ug/l # | 12       |

(#) = 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. -0.02 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampleId :

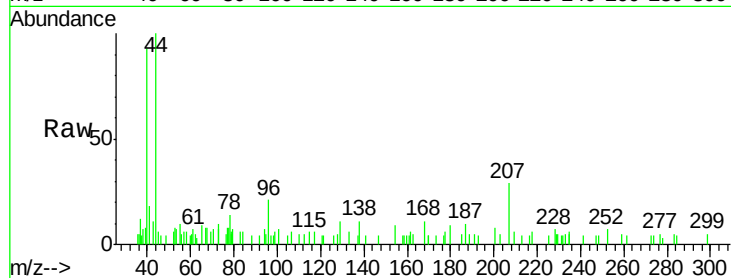
10-BRE

Tot Ion:168 Resp: 834

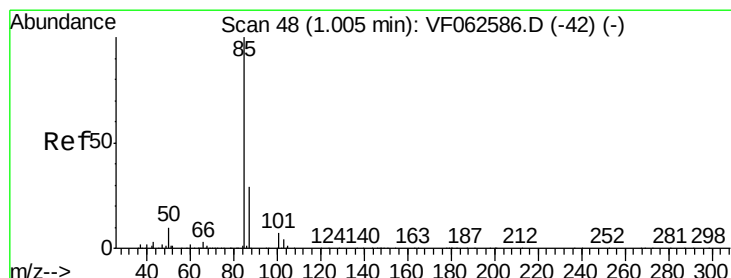
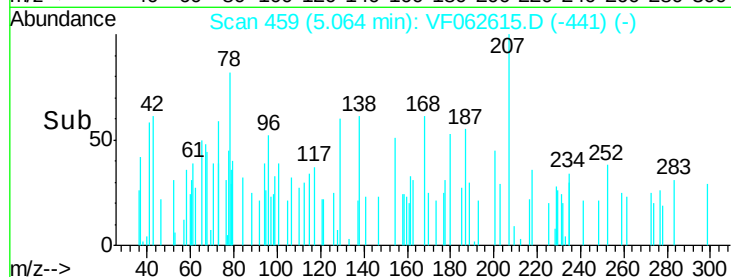
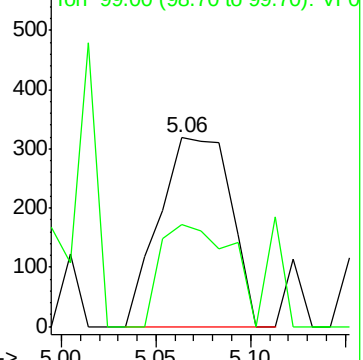
Ion Ratio Lower Upper

168 100

99 54.4 41.0 61.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 47.696 ug/l

RT: 0.93 min Scan# 40

Delta R.T. -0.07 min

Lab File: VF062615.D

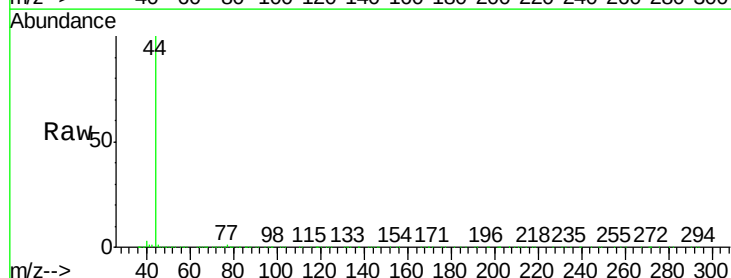
Acq: 15 May 2019 18:13

Tgt Ion: 85 Resp: 360

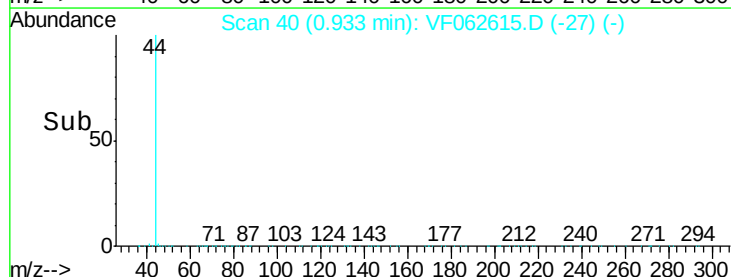
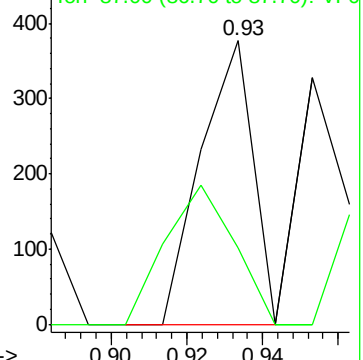
Ion Ratio Lower Upper

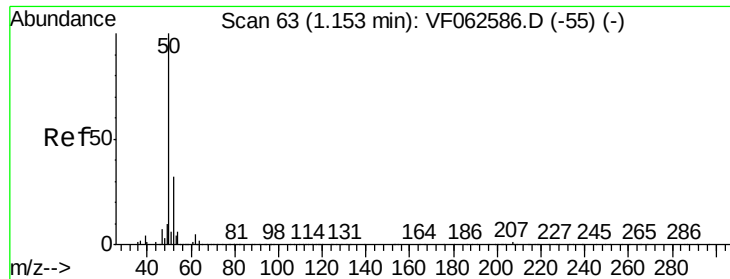
85 100

87 26.8 14.6 43.8



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 94.311 ug/l

RT: 1.10 min Scan# 57

Delta R.T. -0.05 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

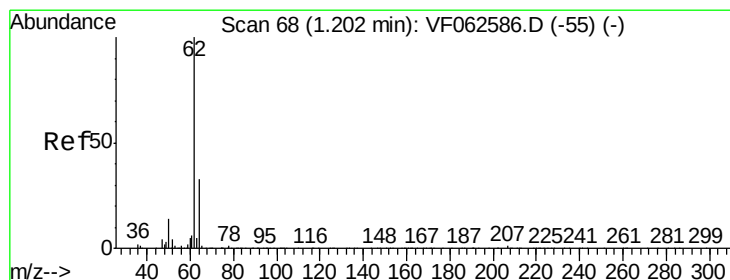
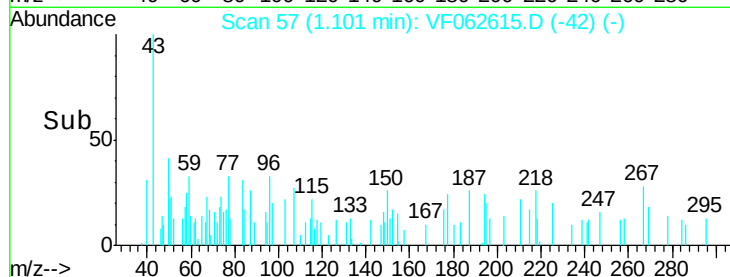
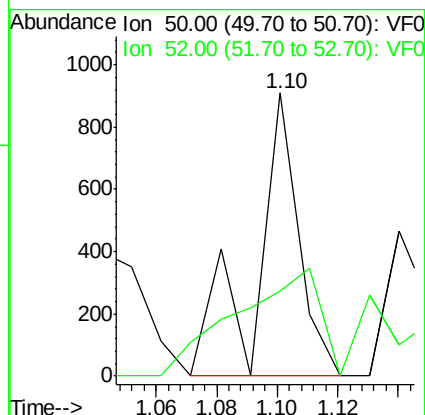
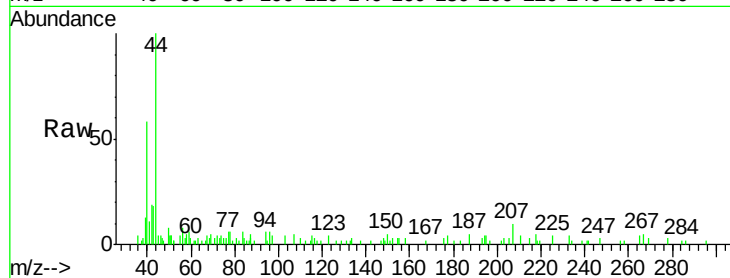
10-BRE

Tot Ion: 50 Resp: 897

Ion Ratio Lower Upper

50 100

52 29.9 25.3 37.9



#4

Vinyl Chloride

Concen: 38.031 ug/l

RT: 1.25 min Scan# 72

Delta R.T. 0.05 min

Lab File: VF062615.D

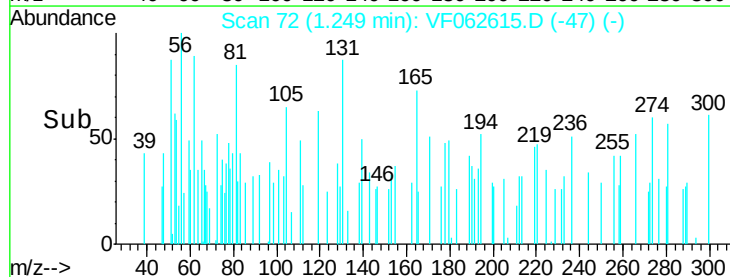
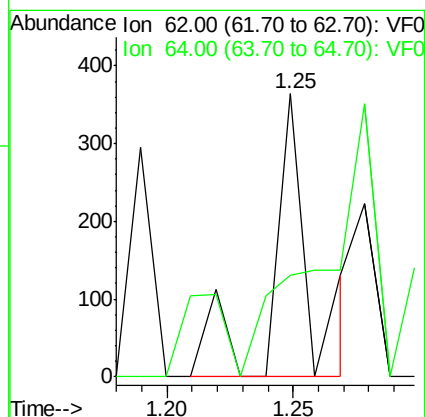
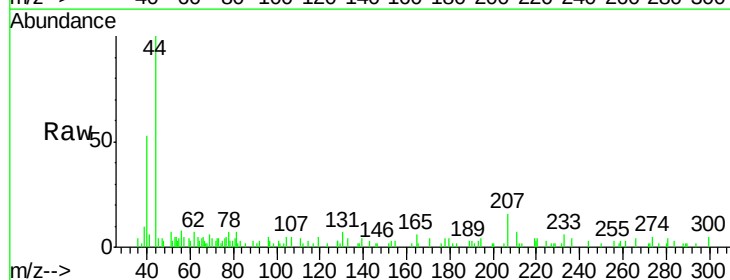
Acq: 15 May 2019 18:13

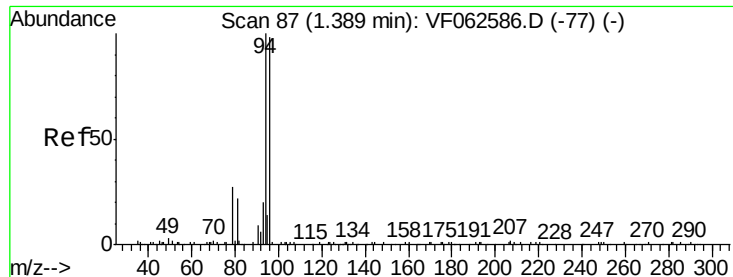
Tgt Ion: 62 Resp: 360

Ion Ratio Lower Upper

62 100

64 36.0 26.5 39.7





#5

Bromomethane

Concen: Below Cal

RT: 1.50 min Scan# 97

Delta R.T. 0.11 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

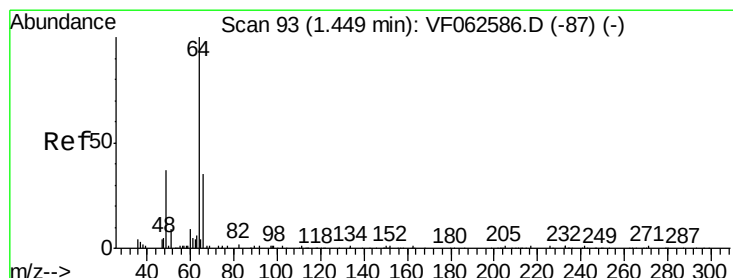
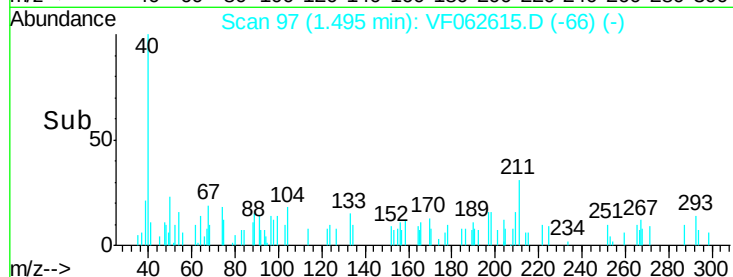
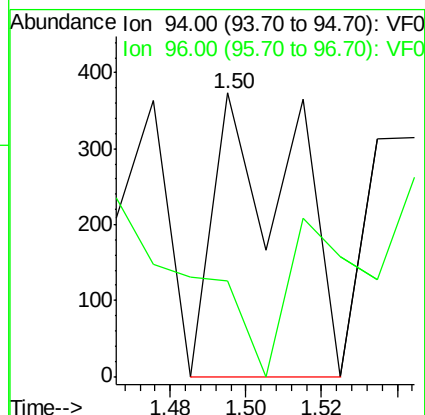
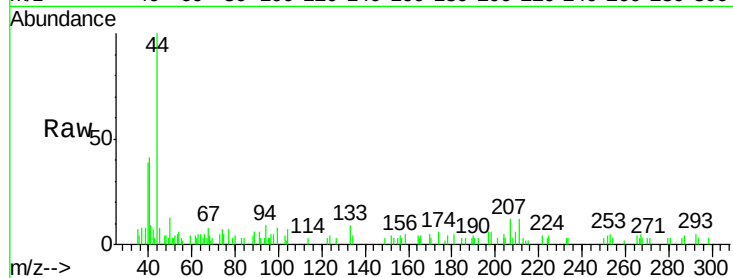
10-BRE

Tot Ion: 94 Resp: 535

Ion Ratio Lower Upper

94 100

96 95.7 79.3 118.9



#6

Chloroethane

Concen: 276.511 ug/l

RT: 1.46 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF062615.D

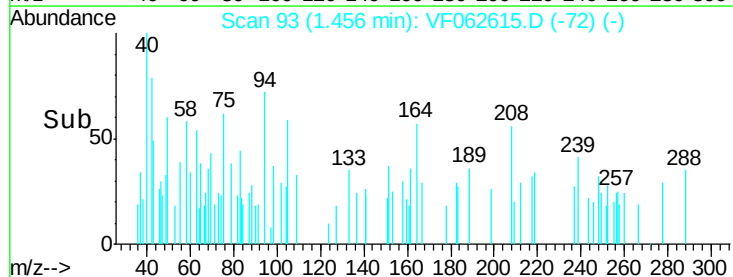
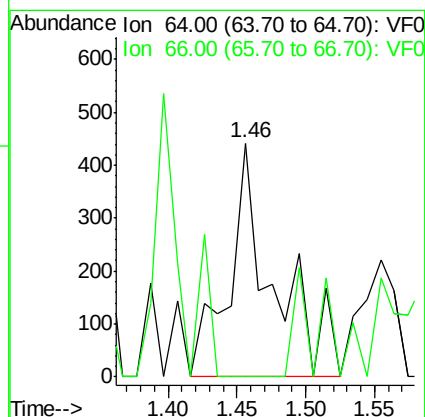
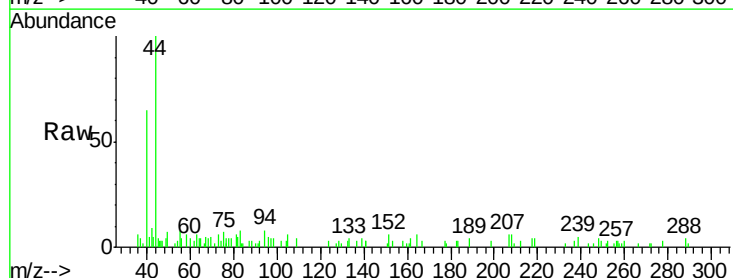
Acq: 15 May 2019 18:13

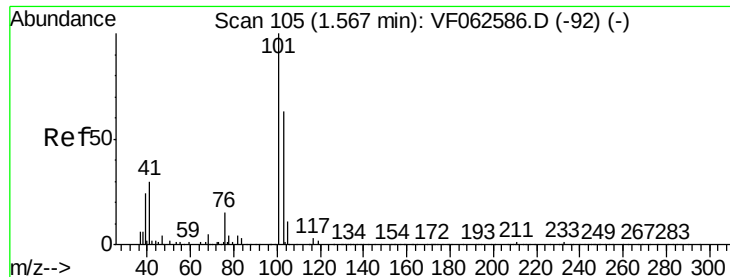
Tgt Ion: 64 Resp: 994

Ion Ratio Lower Upper

64 100

66 23.1 28.9 43.3#



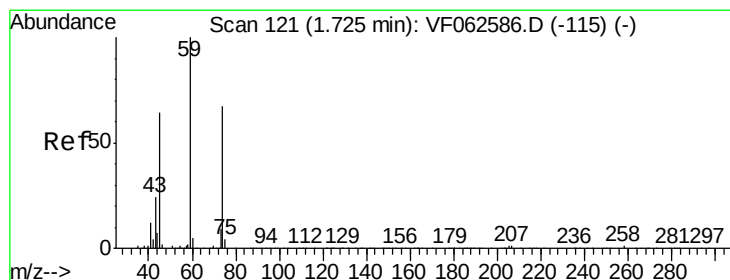
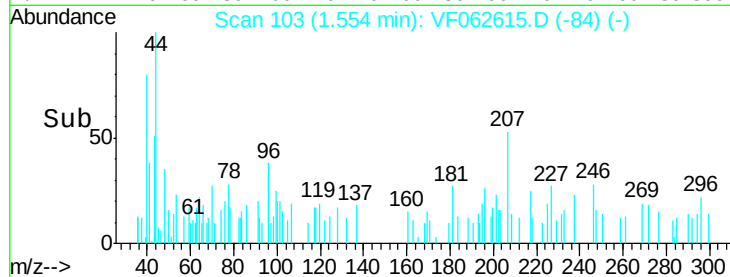
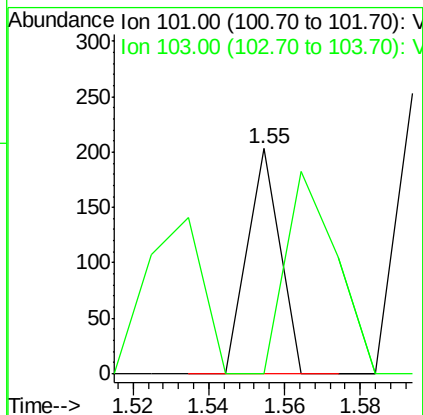
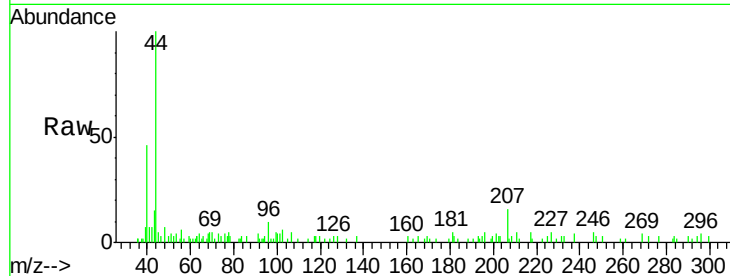


#7

Trichlorofluoromethane  
Concen: 9.252 ug/l  
RT: 1.55 min Scan# 103  
Delta R.T. -0.01 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Instrument :  
MSVOA\_F  
ClientSampled :  
10-BRE

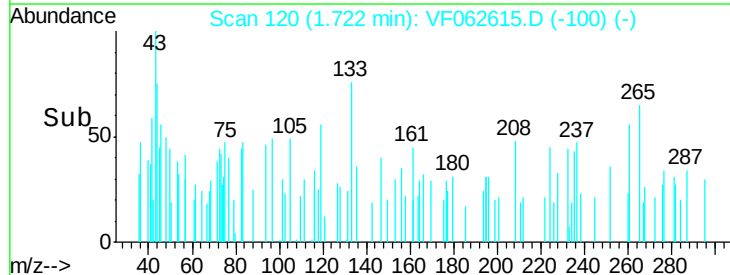
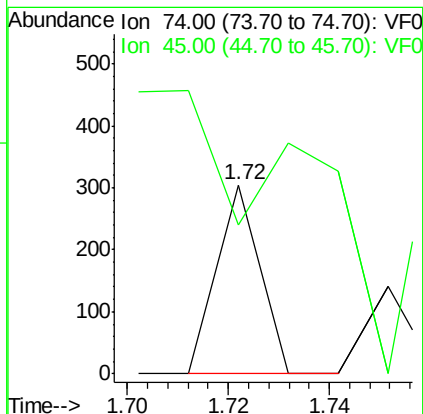
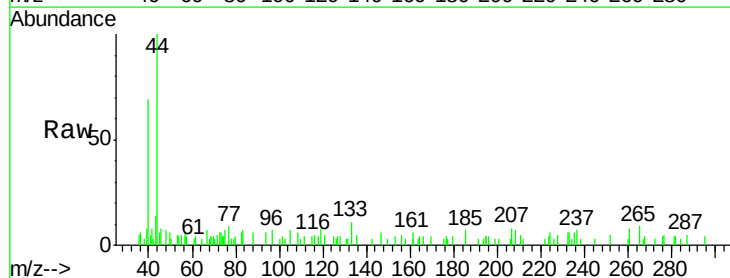
Tot Ion:101 Resp: 120  
Ion Ratio Lower Upper  
101 100  
103 0.0 50.8 76.2#



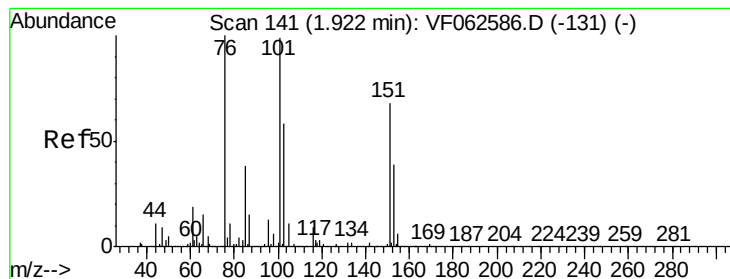
#8

Diethyl Ether  
Concen: 61.912 ug/l  
RT: 1.72 min Scan# 120  
Delta R.T. -0.00 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion: 74 Resp: 180  
Ion Ratio Lower Upper  
74 100  
45 79.0 48.6 145.8







#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.591 ug/l

RT: 1.95 min Scan# 143

Delta R.T. 0.03 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

10-BRE

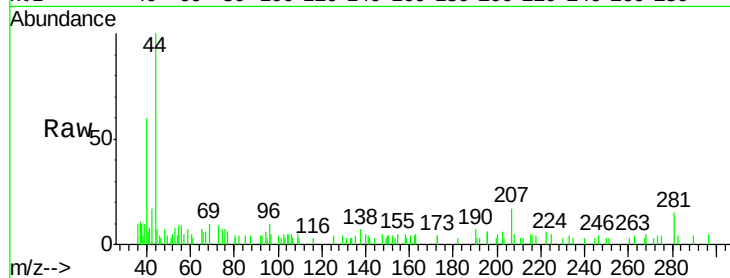
Tot Ion:101 Resp: 76

Ion Ratio Lower Upper

101 100

85 114.8 30.2 45.4#

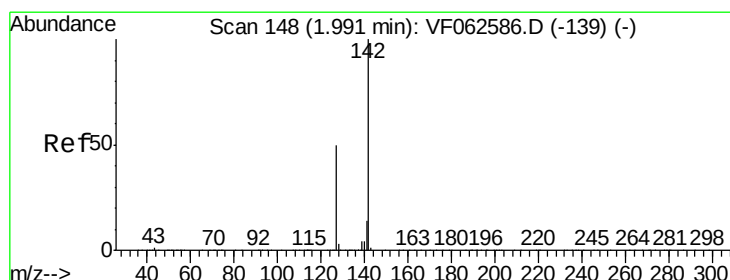
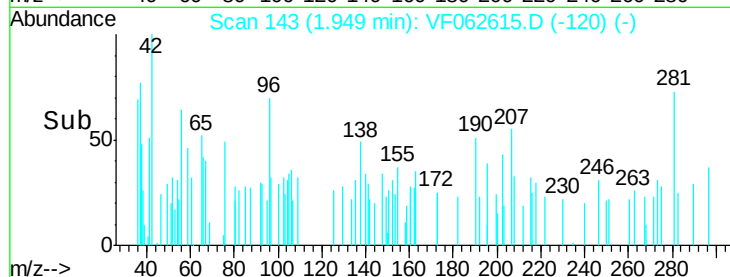
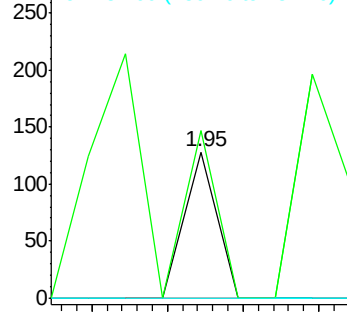
151 0.0 54.5 81.7#



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: 8.631 ug/l

RT: 1.93 min Scan# 141

Delta R.T. -0.06 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

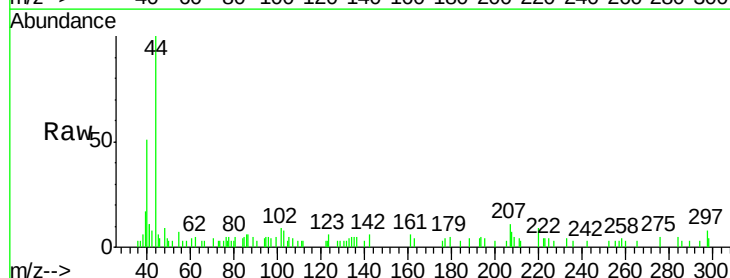
Tgt Ion:142 Resp: 136

Ion Ratio Lower Upper

142 100

127 44.8 40.2 60.4

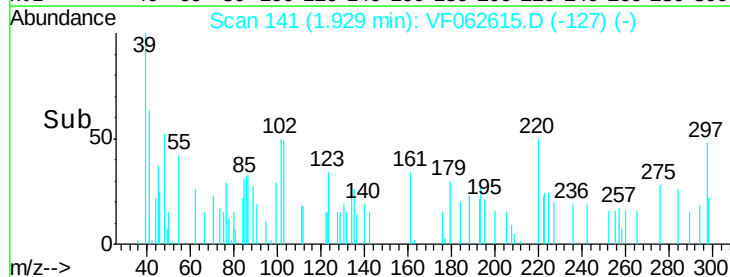
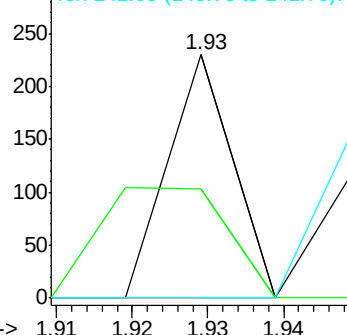
141 0.0 11.6 17.4#

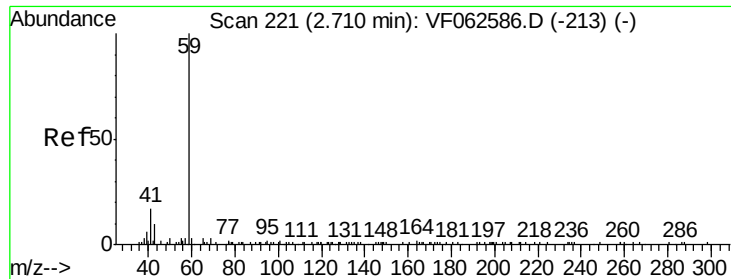


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



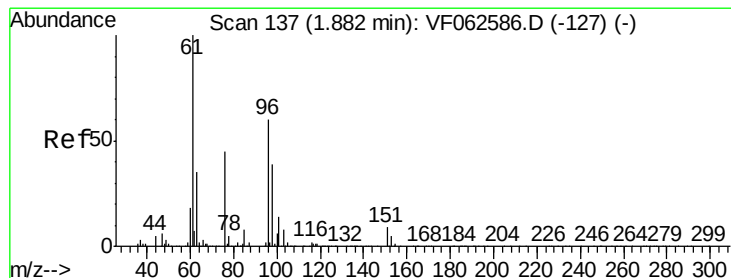
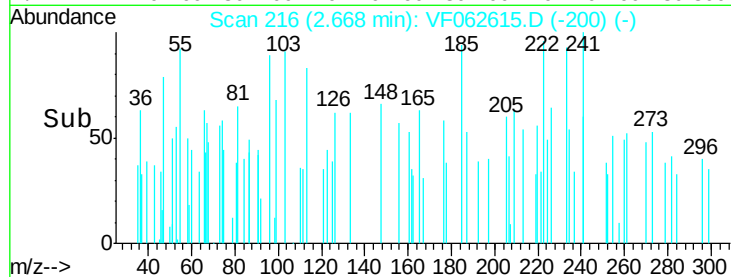
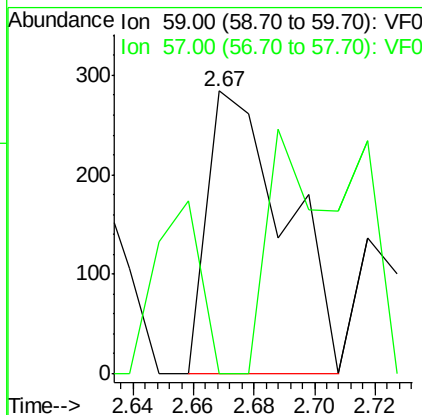
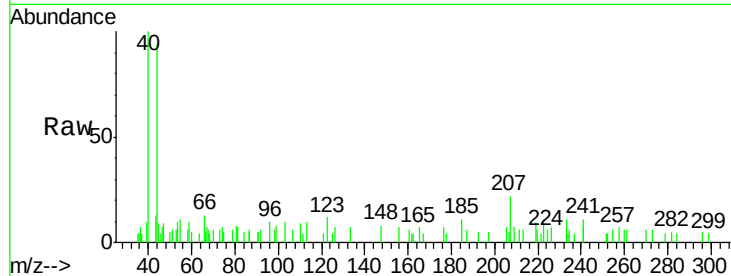


#11

Tert butyl alcohol  
Concen: 1341.825 ug/l  
RT: 2.67 min Scan# 216  
Delta R.T. -0.04 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Instrument :  
MSVOA\_F  
ClientSampled :  
10-BRE

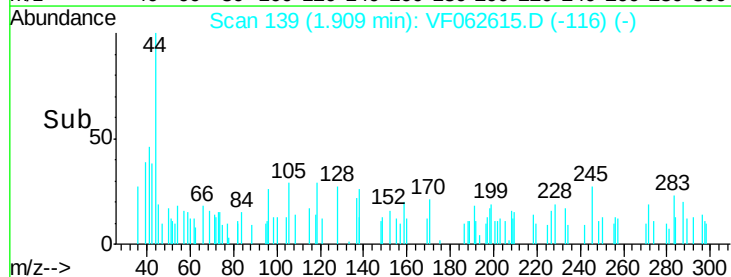
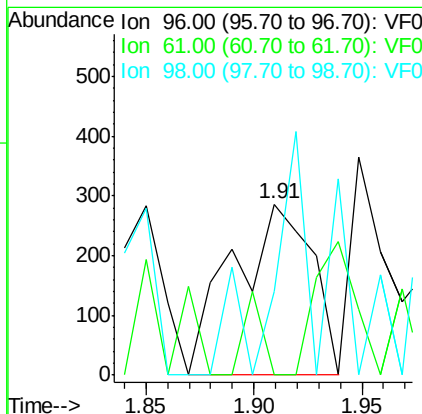
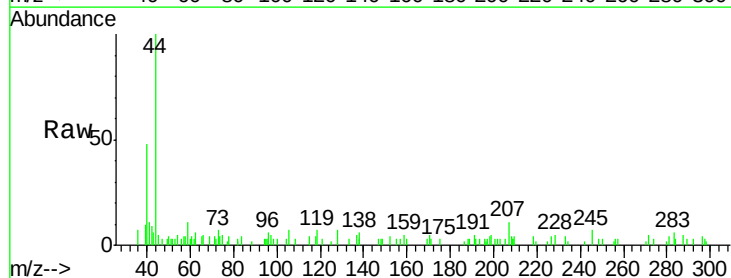
Tot Ion: 59 Resp: 509  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

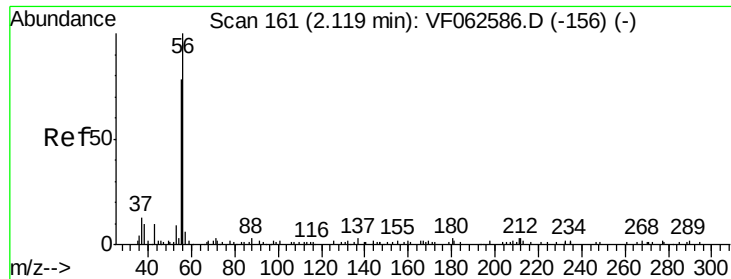


#12

1,1-Dichloroethene  
Concen: 96.457 ug/l  
RT: 1.91 min Scan# 139  
Delta R.T. 0.03 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion: 96 Resp: 731  
Ion Ratio Lower Upper  
96 100  
61 0.0 132.0 198.0#  
98 49.3 51.3 76.9#

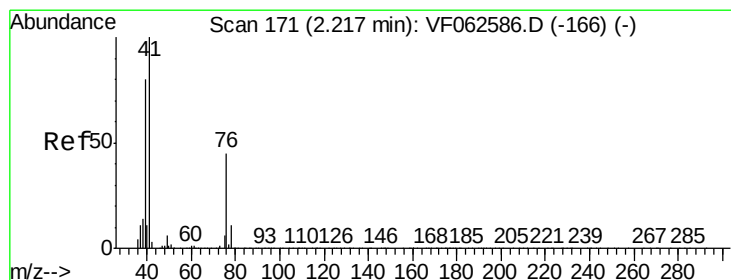
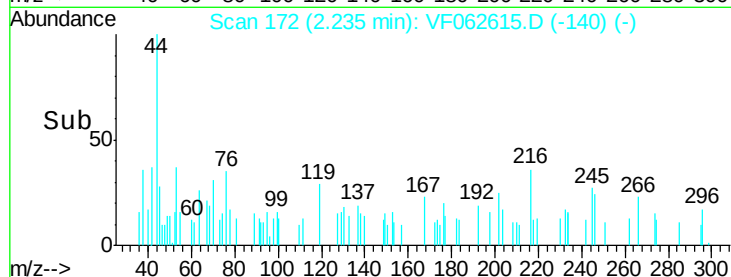
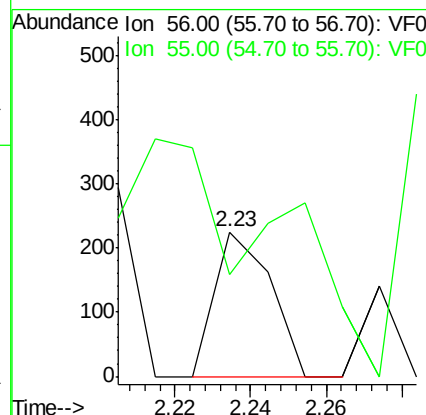
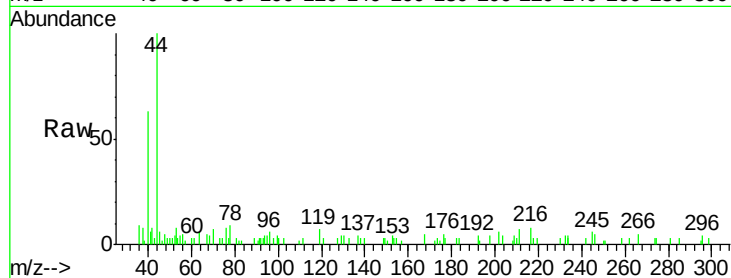




#13  
Acrolein  
Concen: 914.887 ug/l  
RT: 2.23 min Scan# 172  
Delta R.T. 0.12 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

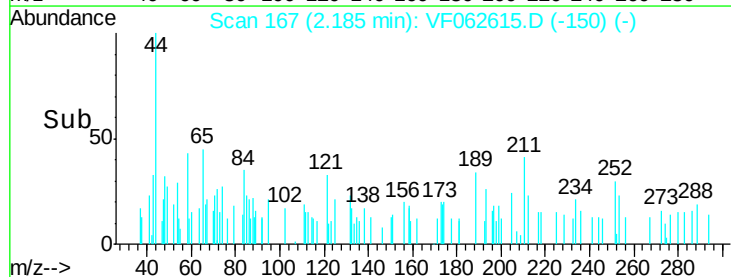
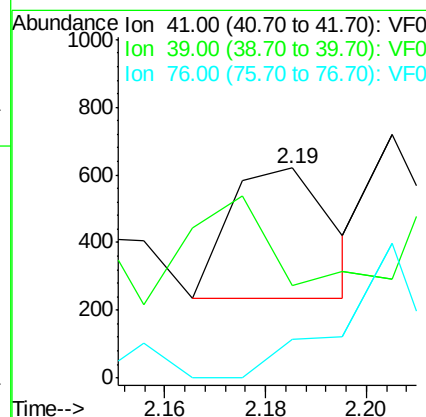
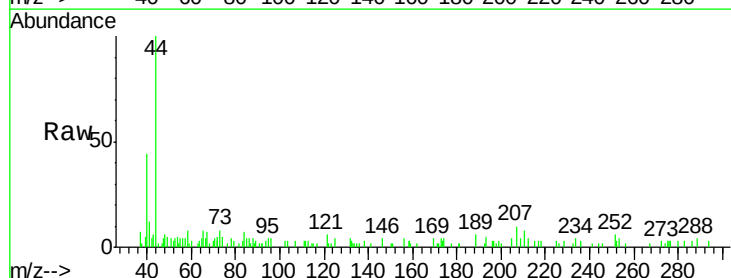
Instrument :  
MSVOA\_F  
ClientSampleId :  
10-BRE

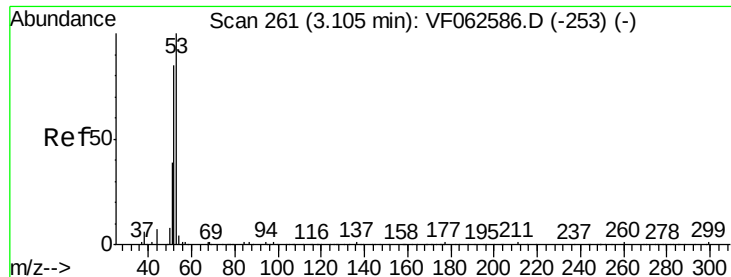
Tot Ion: 56 Resp: 230  
Ion Ratio Lower Upper  
56 100  
55 70.2 64.6 96.8



#14  
Allyl chloride  
Concen: 70.410 ug/l  
RT: 2.19 min Scan# 167  
Delta R.T. -0.03 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion: 41 Resp: 546  
Ion Ratio Lower Upper  
41 100  
39 44.0 64.6 96.8#  
76 18.5 36.1 54.1#





#15

Acrylonitrile

Concen: 708.209 ug/l

RT: 2.98 min Scan# 248

Delta R.T. -0.12 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

10-BRE

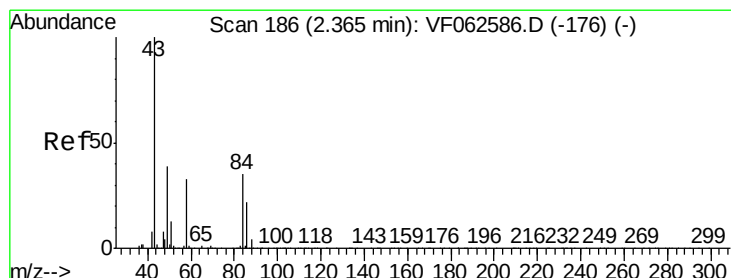
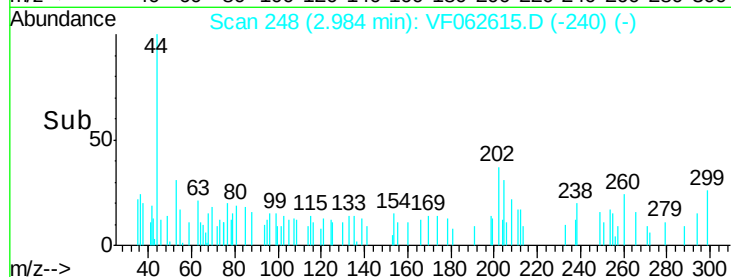
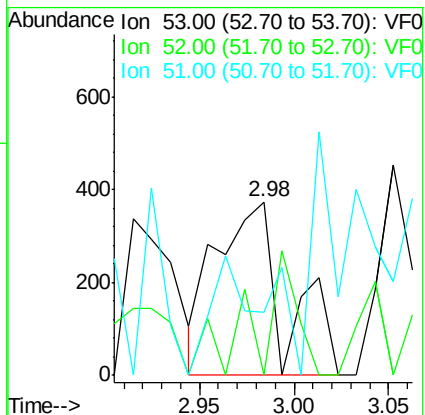
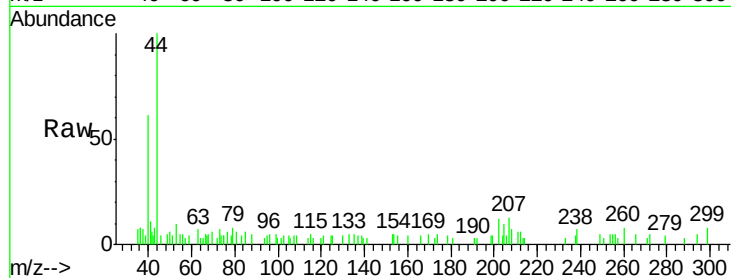
Tot Ion: 53 Resp: 961

Ion Ratio Lower Upper

53 100

52 100.0 68.3 102.5

51 36.5 31.5 47.3



#16

Acetone

Concen: 889.350 ug/l

RT: 2.30 min Scan# 179

Delta R.T. -0.06 min

Lab File: VF062615.D

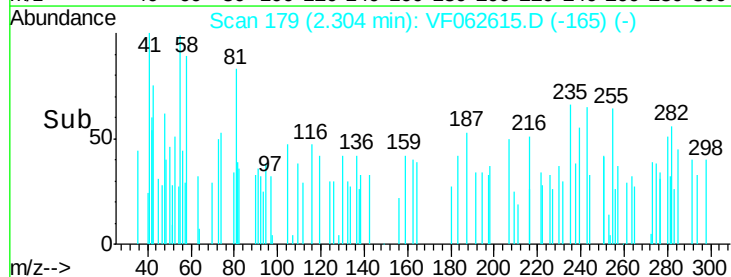
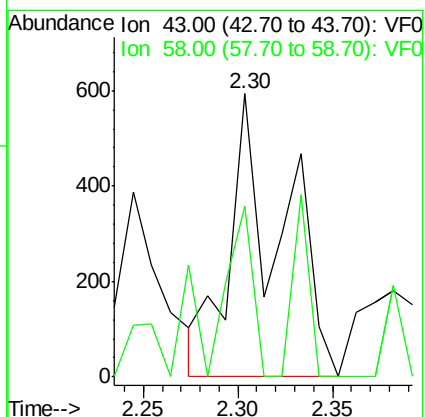
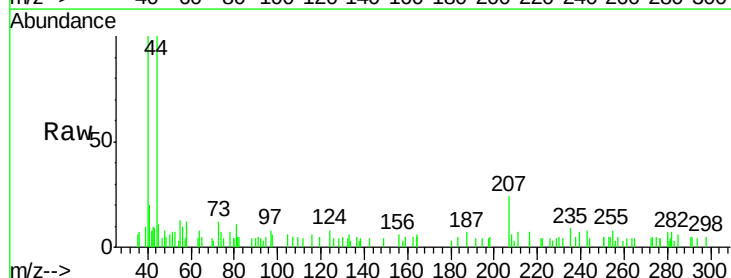
Acq: 15 May 2019 18:13

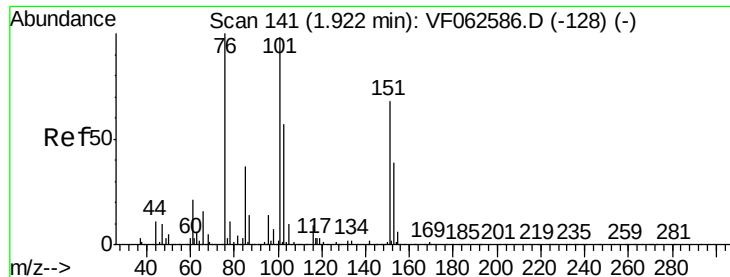
Tgt Ion: 43 Resp: 1137

Ion Ratio Lower Upper

43 100

58 60.4 26.7 40.1#





#17

Carbon Disulfide

Concen: 31.475 ug/l

RT: 1.95 min Scan# 143

Delta R.T. 0.03 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

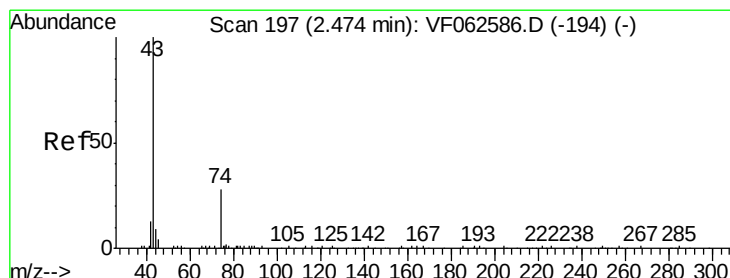
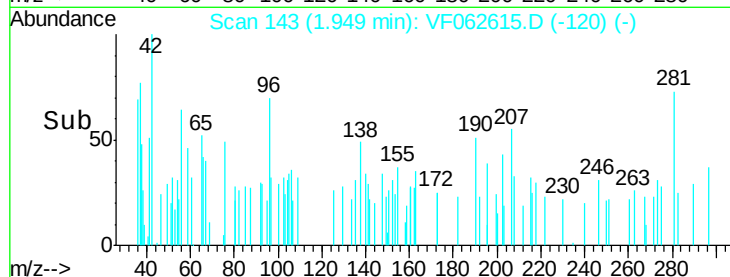
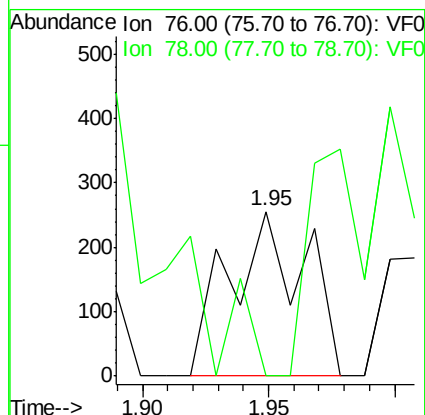
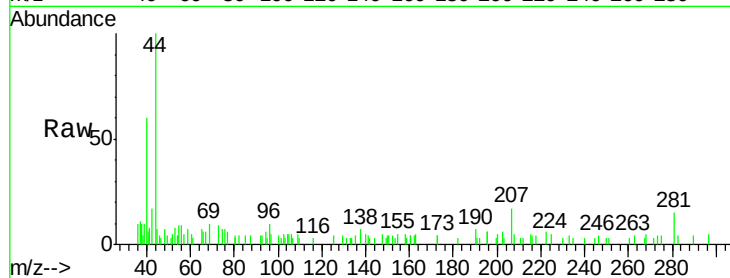
10-BRE

Tot Ion: 76 Resp: 533

Ion Ratio Lower Upper

76 100

78 0.0 9.0 13.4#



#18

Methyl Acetate

Concen: 280.159 ug/l

RT: 2.58 min Scan# 207

Delta R.T. 0.11 min

Lab File: VF062615.D

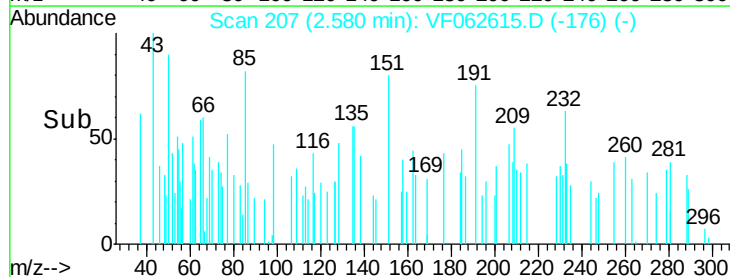
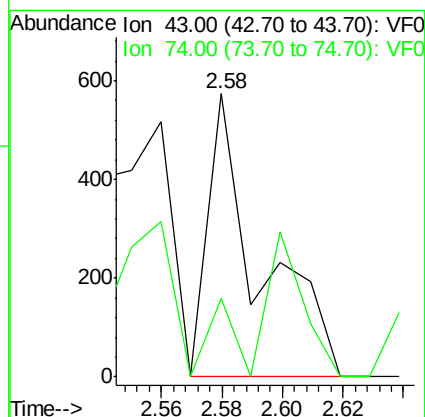
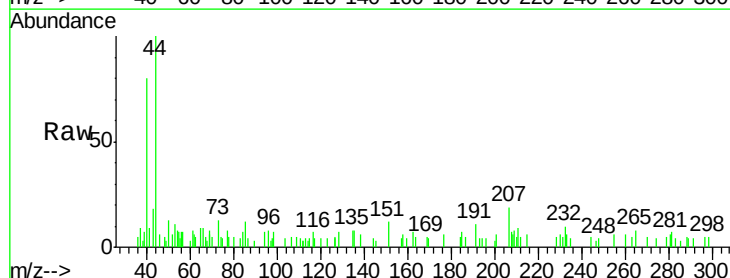
Acq: 15 May 2019 18:13

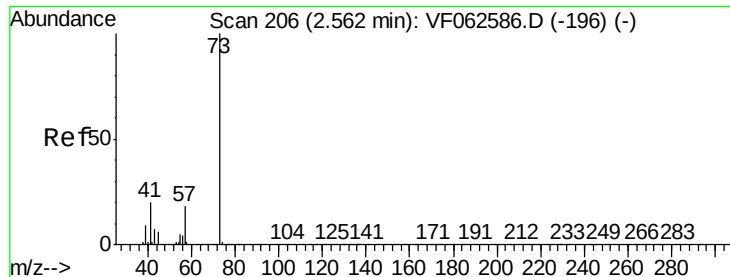
Tgt Ion: 43 Resp: 677

Ion Ratio Lower Upper

43 100

74 27.9 21.4 32.0



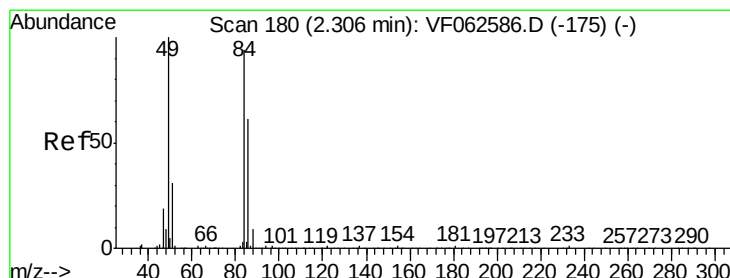
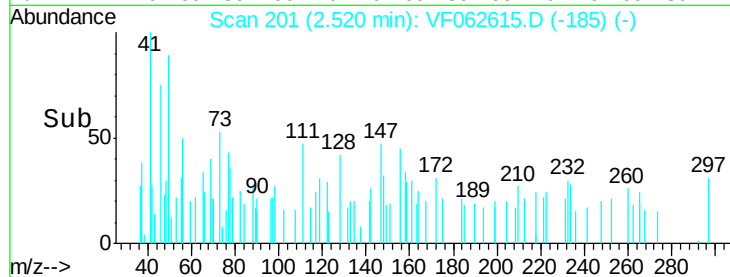
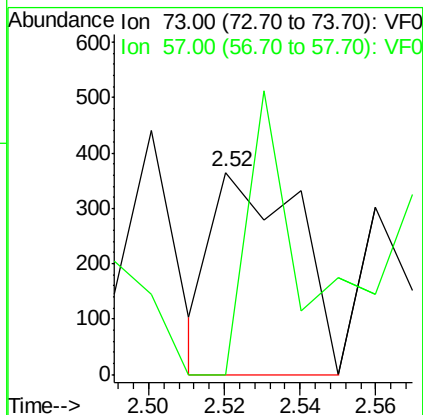
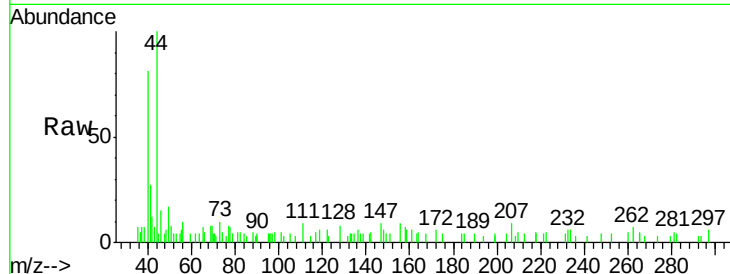


#19

Methyl tert-butyl Ether  
 Concen: 42.687 ug/l  
 RT: 2.52 min Scan# 201  
 Delta R.T. -0.04 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 10-BRE

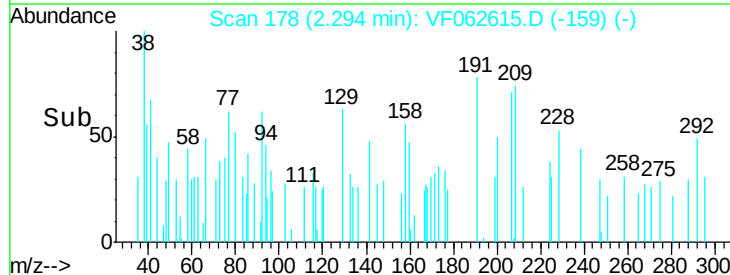
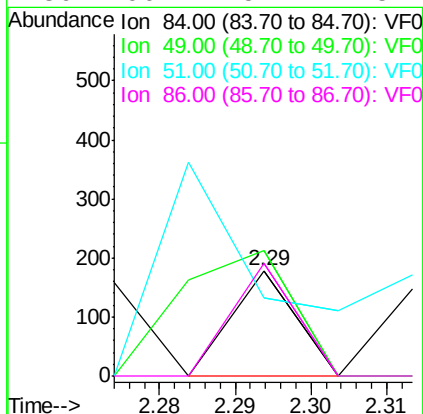
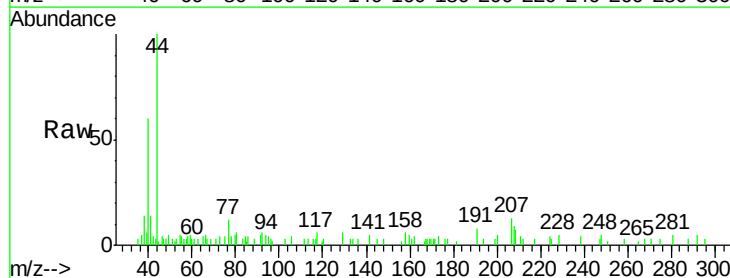
Tot Ion: 73 Resp: 576  
 Ion Ratio Lower Upper  
 73 100  
 57 0.0 14.6 22.0#

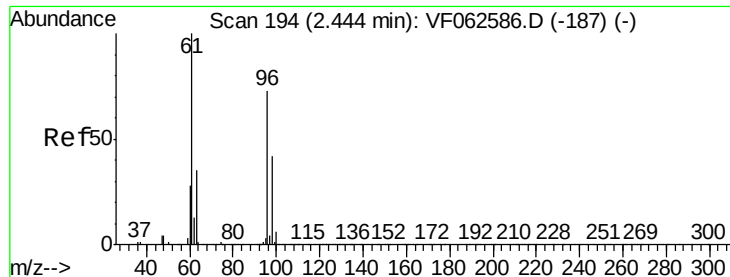


#20

Methylene Chloride  
 Concen: 10.768 ug/l  
 RT: 2.29 min Scan# 178  
 Delta R.T. -0.01 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

Tgt Ion: 84 Resp: 105  
 Ion Ratio Lower Upper  
 84 100  
 49 119.1 86.9 130.3  
 51 74.2 27.0 40.6#  
 86 106.7 52.2 78.2#





#21

trans-1,2-Dichloroethene

Concen: 42.291 ug/l

RT: 2.46 min Scan# 195

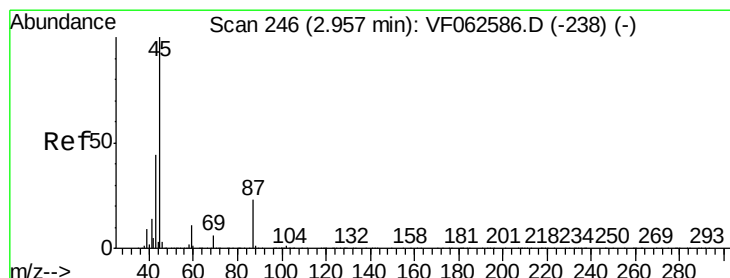
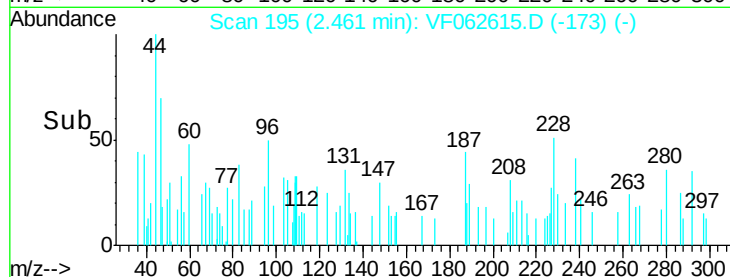
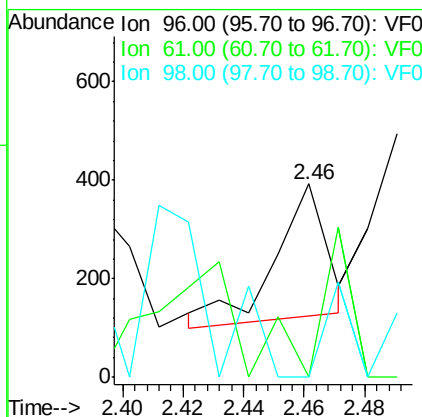
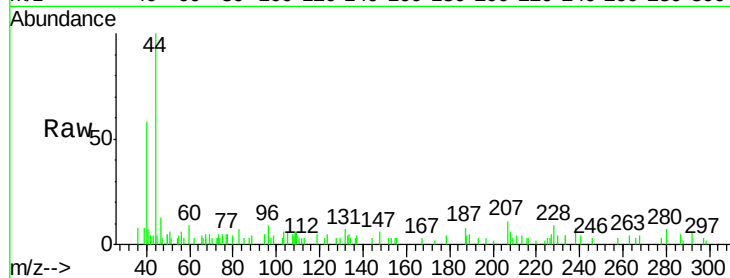
Delta R.T. 0.02 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
10-BRE

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 323    |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 0.0   | 109.2 | 163.8# |
| 98       | 0.0   | 46.3  | 69.5#  |



#22

Diisopropyl ether

Concen: 18.913 ug/l

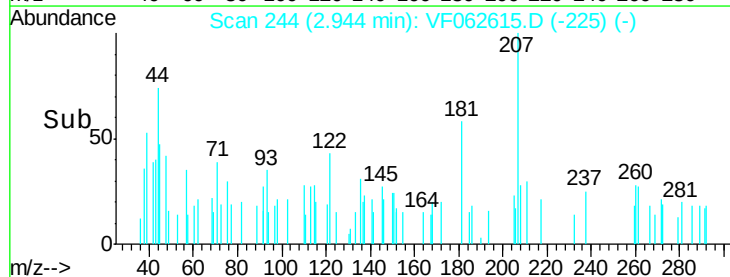
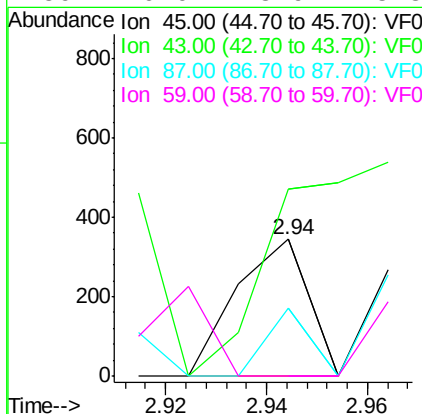
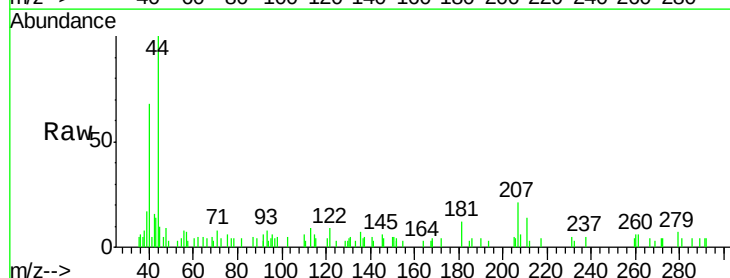
RT: 2.94 min Scan# 244

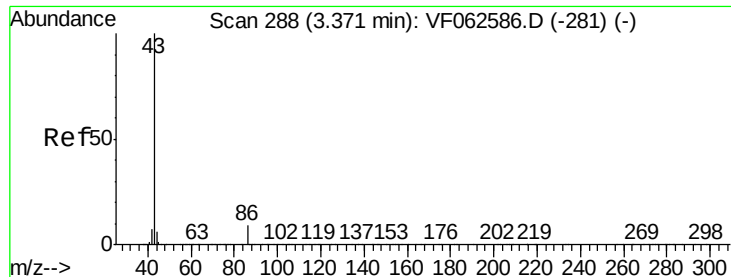
Delta R.T. -0.01 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 341   |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 136.5 | 35.4  | 53.0# |
| 87       | 49.6  | 18.4  | 27.6# |
| 59       | 0.0   | 8.9   | 13.3# |





#23

Vinyl Acetate

Concen: 123.809 ug/l

RT: 3.32 min Scan# 282

Delta R.T. -0.05 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

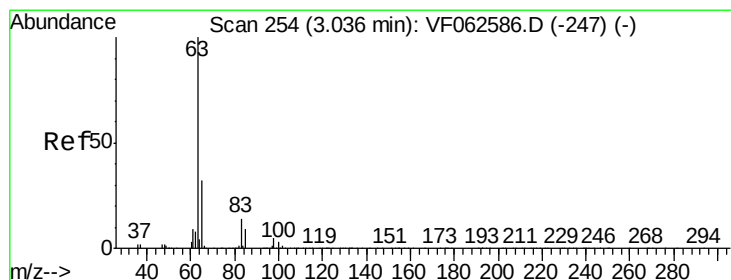
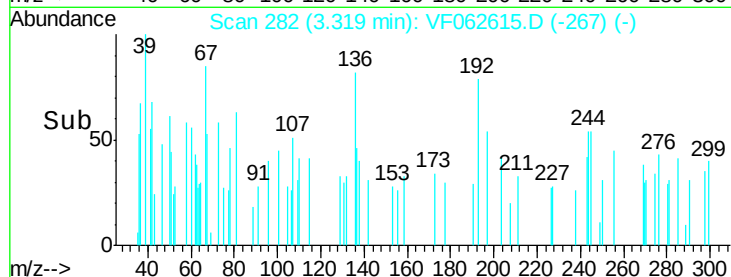
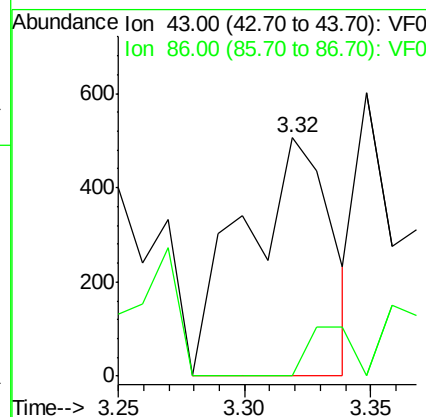
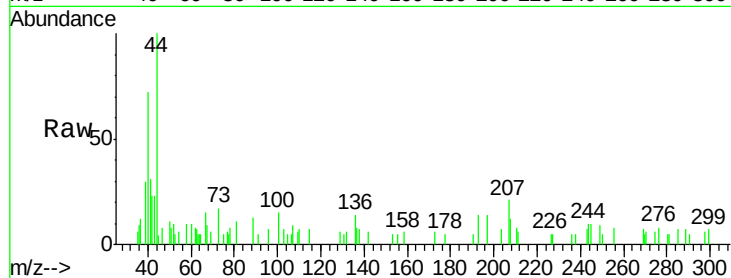
10-BRE

Tot Ion: 43 Resp: 1221

Ion Ratio Lower Upper

43 100

86 0.0 7.1 10.7#



#24

1,1-Dichloroethane

Concen: 23.897 ug/l

RT: 3.03 min Scan# 253

Delta R.T. -0.00 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

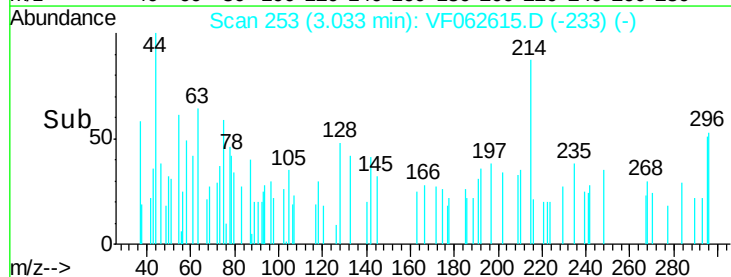
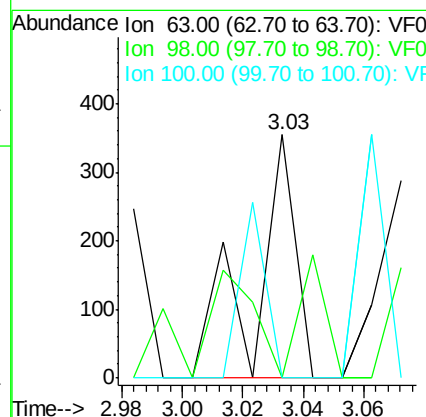
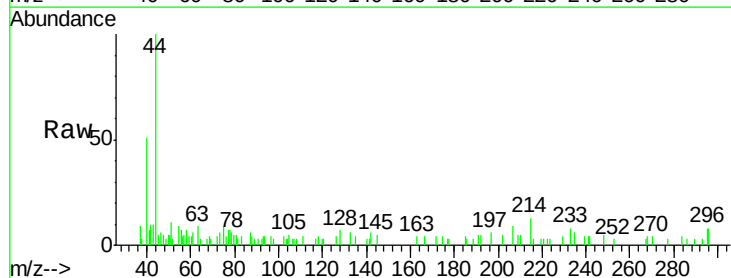
Tgt Ion: 63 Resp: 328

Ion Ratio Lower Upper

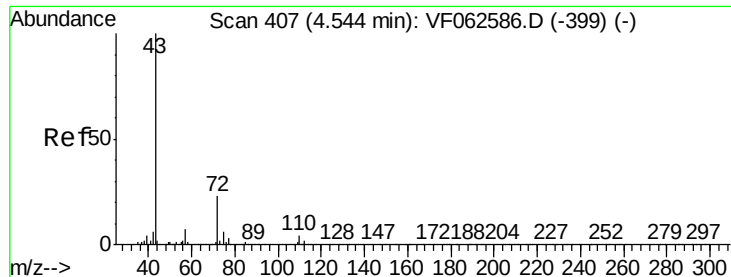
63 100

98 0.0 2.6 7.8#

100 0.0 1.7 5.1#







#25

2-Butanone

Concen: 798.532 ug/l

RT: 4.61 min Scan# 413

Delta R.T. 0.07 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampleId :

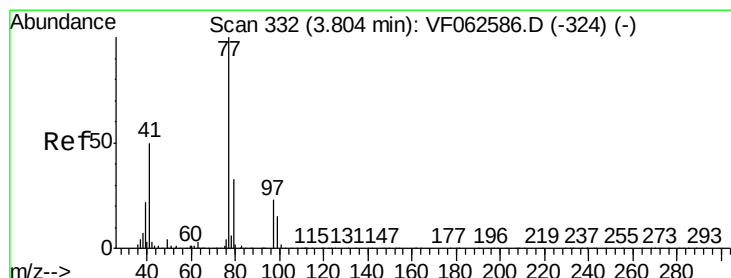
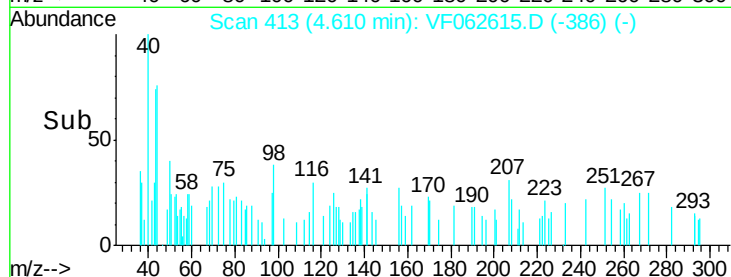
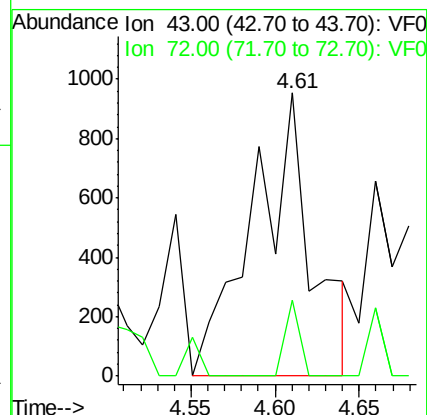
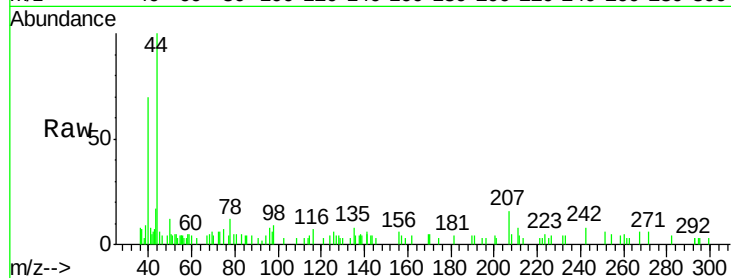
10-BRE

Tot Ion: 43 Resp: 2308

Ion Ratio Lower Upper

43 100

72 27.0 18.5 27.7



#26

2,2-Dichloropropane

Concen: 69.524 ug/l

RT: 3.67 min Scan# 318

Delta R.T. -0.13 min

Lab File: VF062615.D

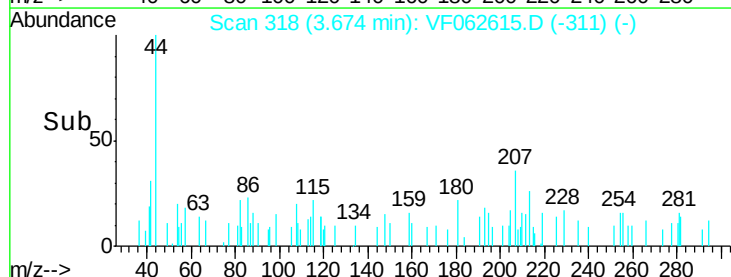
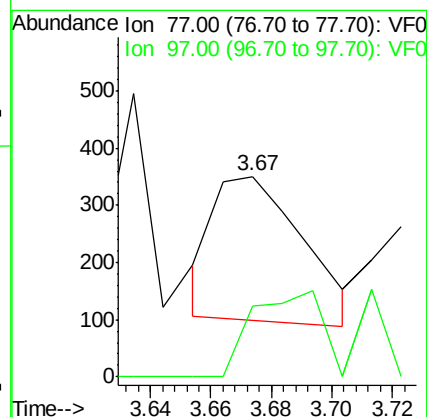
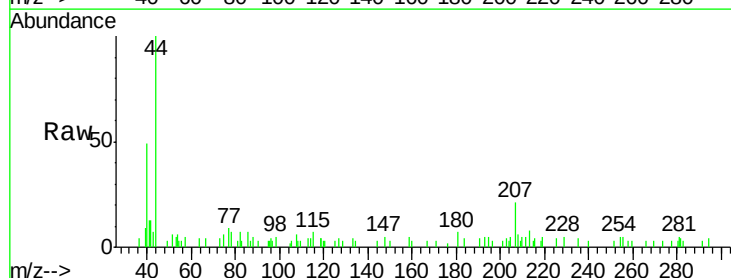
Acq: 15 May 2019 18:13

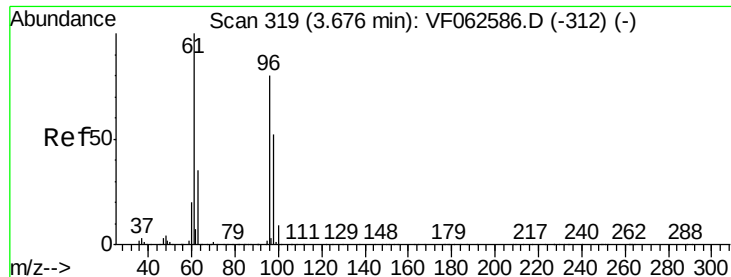
Tgt Ion: 77 Resp: 515

Ion Ratio Lower Upper

77 100

97 35.3 12.0 36.0



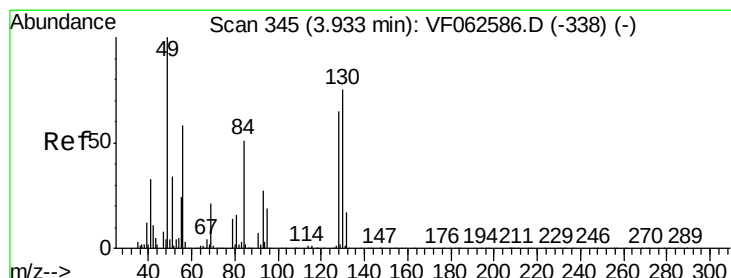
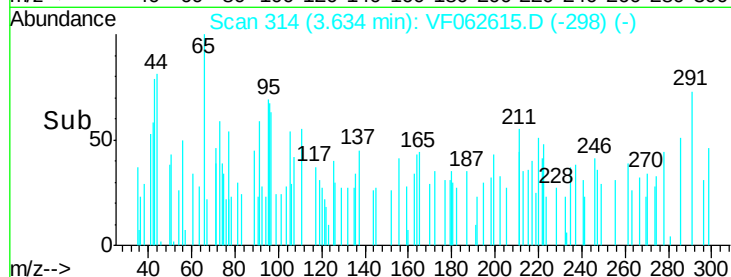
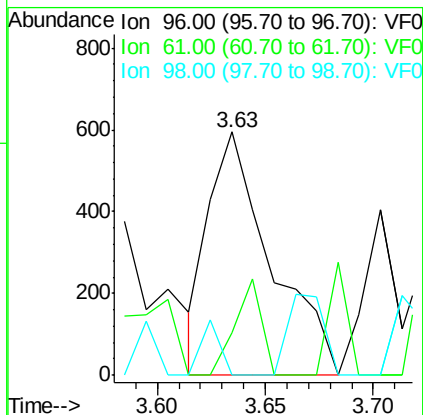
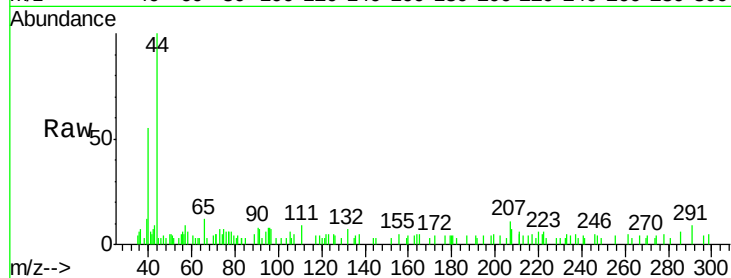


#27

cis-1,2-Dichloroethene  
Concen: 110.837 ug/l  
RT: 3.63 min Scan# 314  
Delta R.T. -0.04 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Instrument :  
MSVOA\_F  
ClientSampled :  
10-BRE

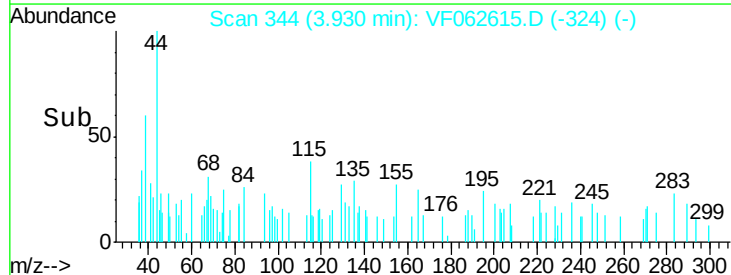
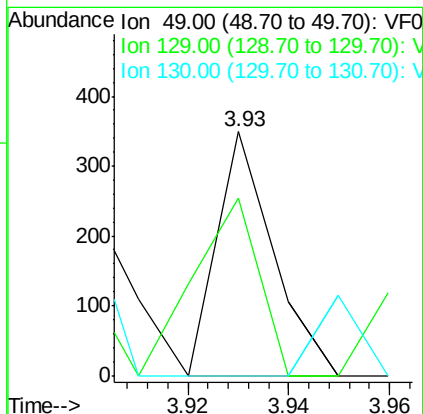
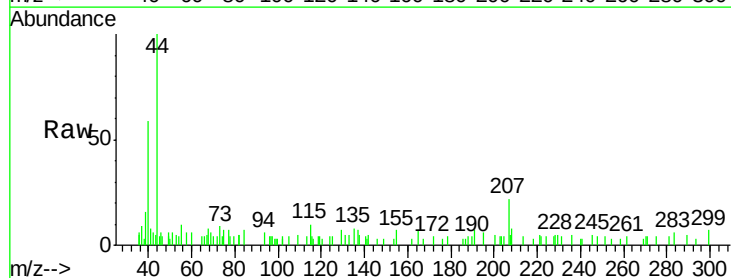
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 17.3  | 0.0   | 251.4 |
| 98      | 0.0   | 0.0   | 129.8 |

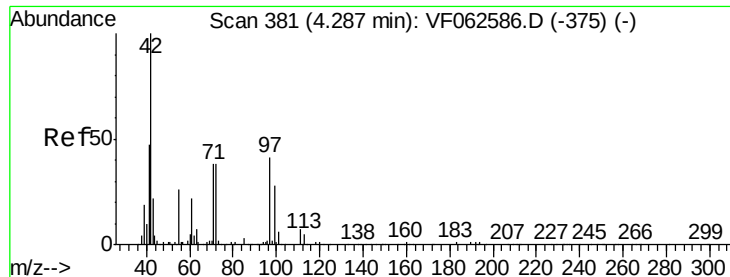


#28

Bromochloromethane  
Concen: 34.737 ug/l  
RT: 3.93 min Scan# 344  
Delta R.T. -0.00 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 72.8  | 0.0   | 4.0#  |
| 130     | 0.0   | 59.7  | 89.5# |





#29

Tetrahydrofuran

Concen: 606.657 ug/l

RT: 4.24 min Scan# 375

Delta R.T. -0.05 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampleId :

10-BRE

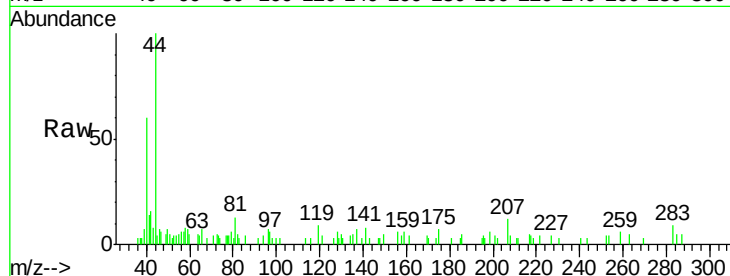
Tot Ion: 42 Resp: 742

Ion Ratio Lower Upper

42 100

72 18.9 34.0 51.0#

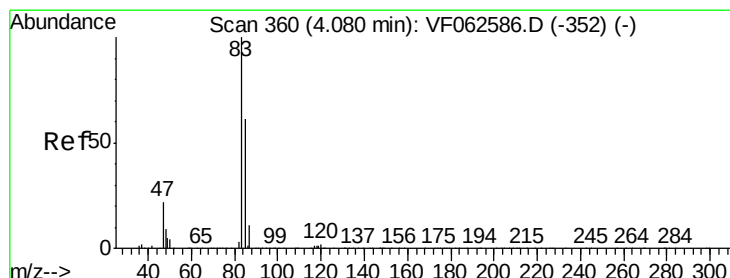
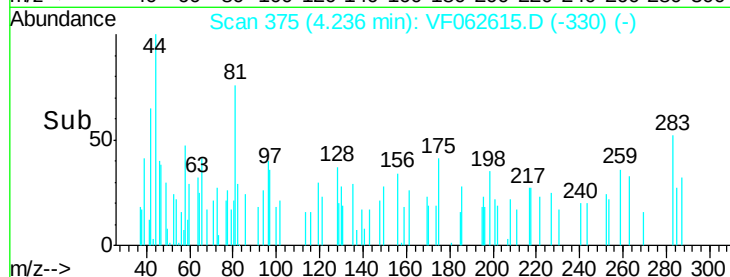
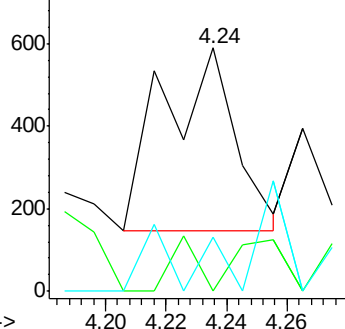
71 31.9 32.8 49.2#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 13.540 ug/l

RT: 4.04 min Scan# 355

Delta R.T. -0.04 min

Lab File: VF062615.D

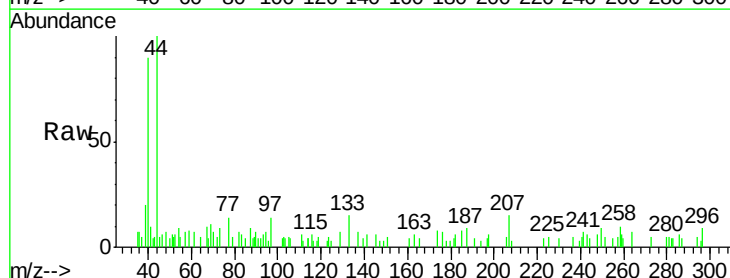
Acq: 15 May 2019 18:13

Tgt Ion: 83 Resp: 223

Ion Ratio Lower Upper

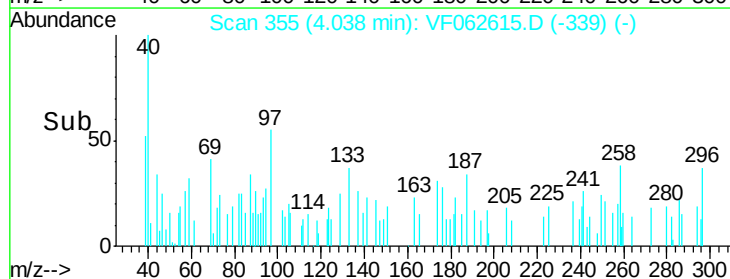
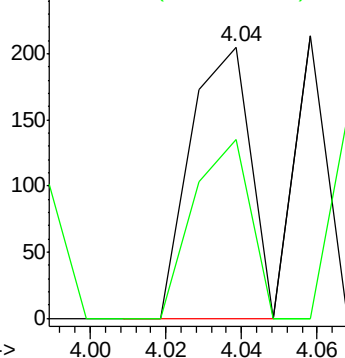
83 100

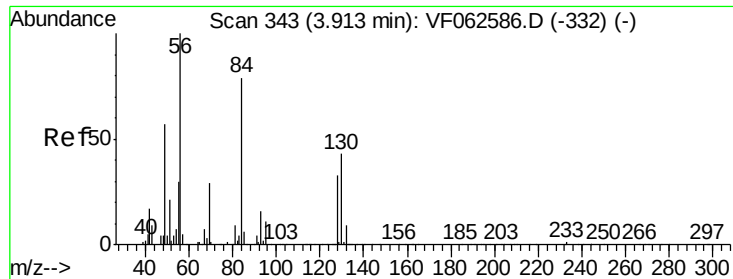
85 65.9 48.7 73.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

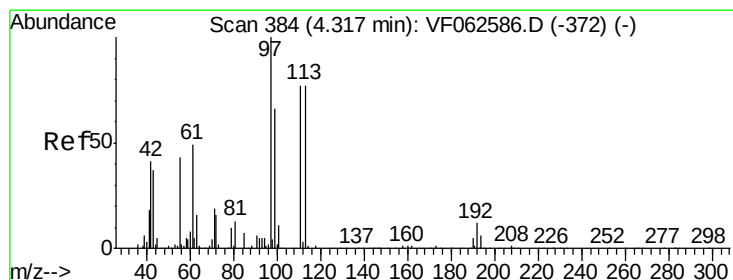
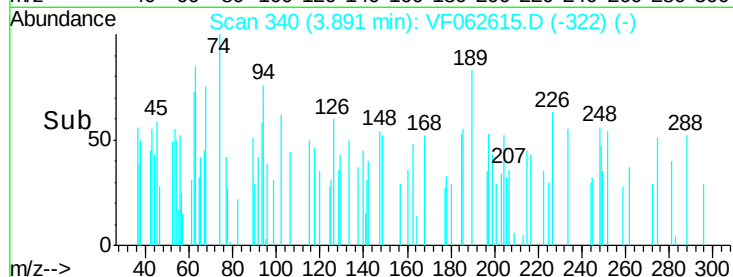
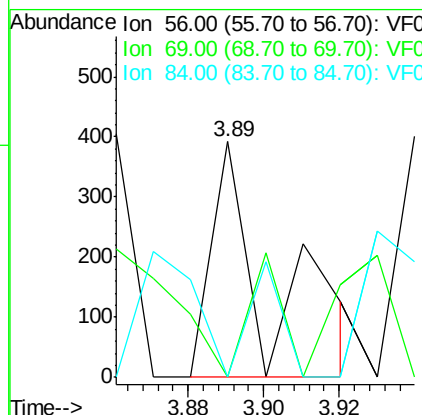
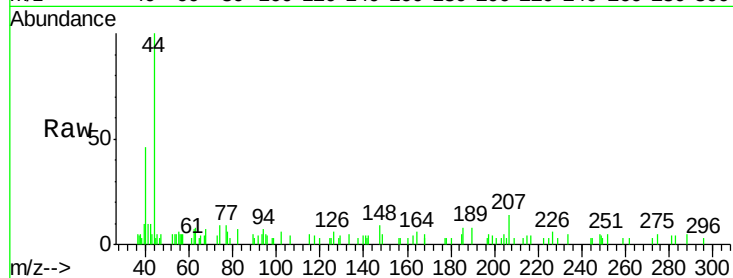




#31  
Cyclohexane  
Concen: 30.618 ug/l  
RT: 3.89 min Scan# 340  
Delta R.T. -0.02 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

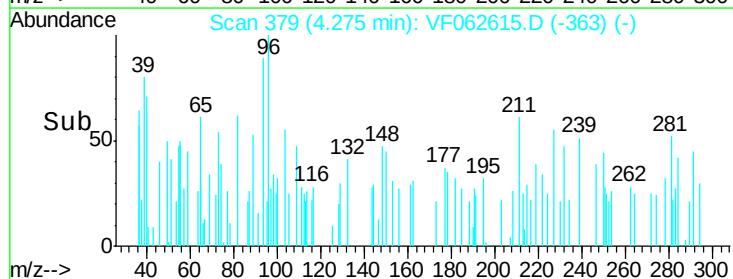
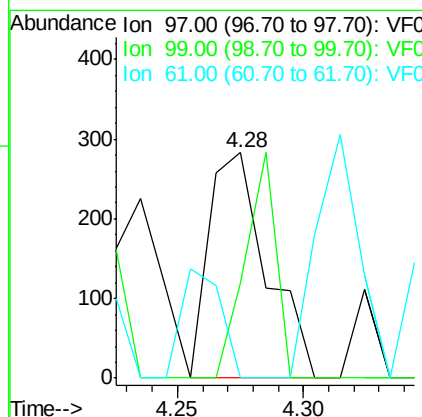
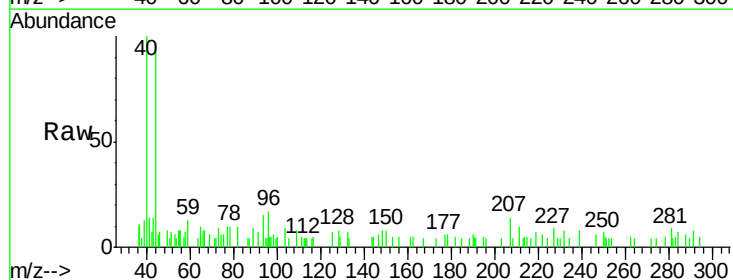
Instrument :  
MSVOA\_F  
ClientSampleId :  
10-BRE

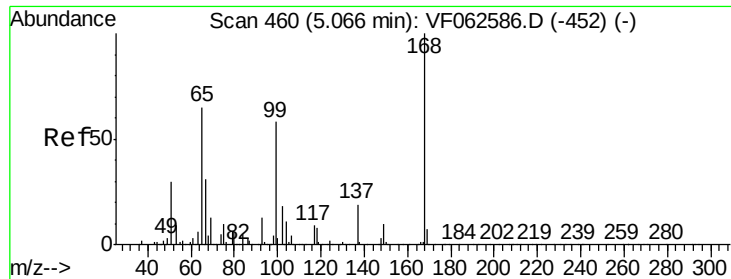
Tot Ion: 56 Resp: 438  
Ion Ratio Lower Upper  
56 100  
69 0.0 22.9 34.3#  
84 0.0 63.4 95.2#



#32  
1,1,1-Trichloroethane  
Concen: 40.716 ug/l  
RT: 4.28 min Scan# 379  
Delta R.T. -0.04 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion: 97 Resp: 452  
Ion Ratio Lower Upper  
97 100  
99 42.4 53.4 80.0#  
61 0.0 38.9 58.3#

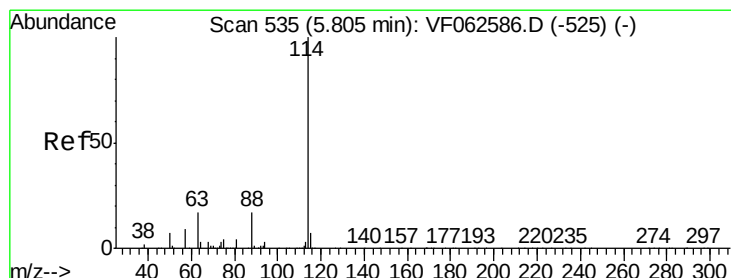
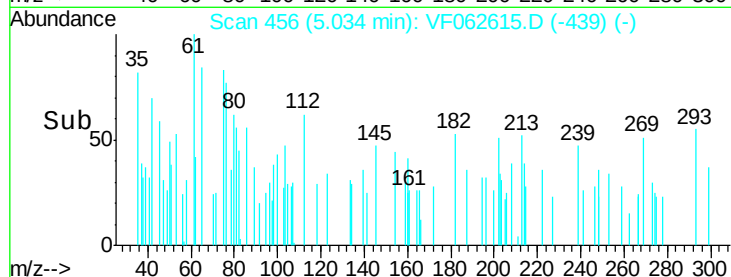
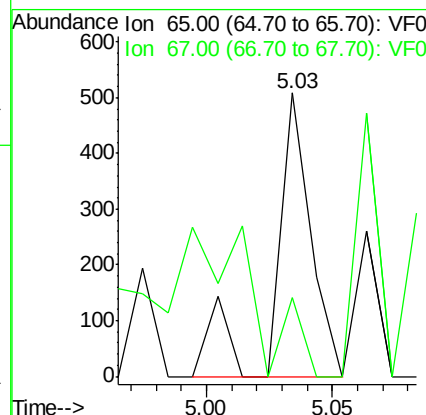
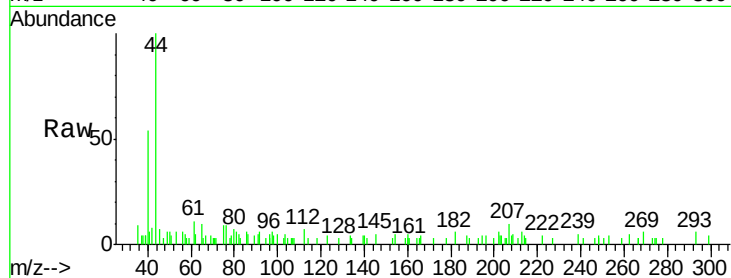




#33  
 1,2-Dichloroethane-d4  
 Concen: 77.772 ug/l  
 RT: 5.03 min Scan# 456  
 Delta R.T. -0.03 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

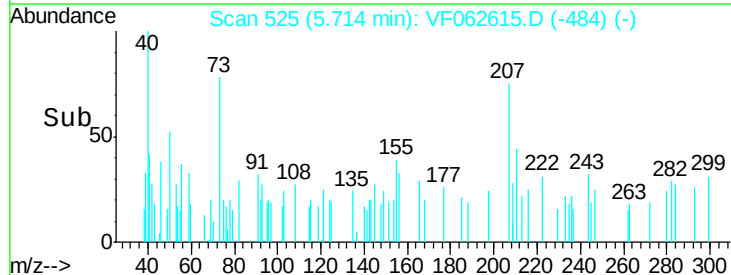
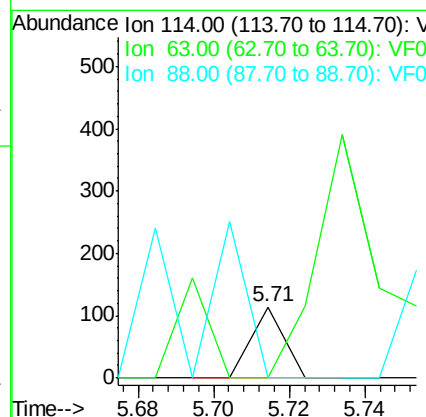
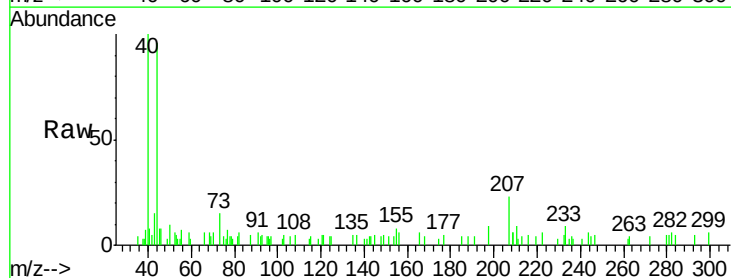
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 10-BRE

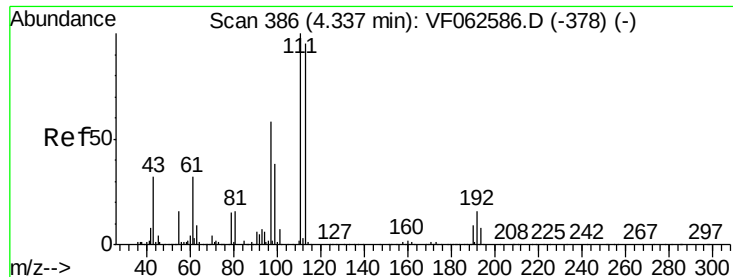
Tot Ion: 65 Resp: 490  
 Ion Ratio Lower Upper  
 65 100  
 67 28.0 0.0 116.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.71 min Scan# 525  
 Delta R.T. -0.09 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

Tgt Ion: 114 Resp: 67  
 Ion Ratio Lower Upper  
 114 100  
 63 0.0 0.0 34.6  
 88 0.0 0.0 33.6

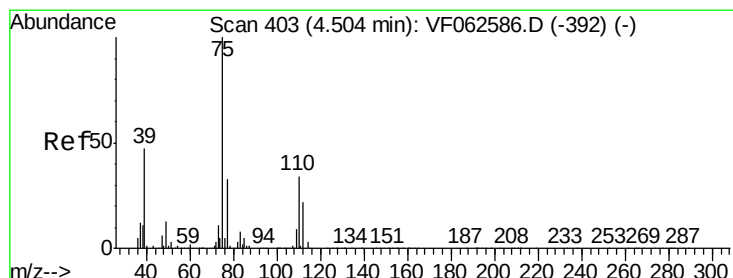
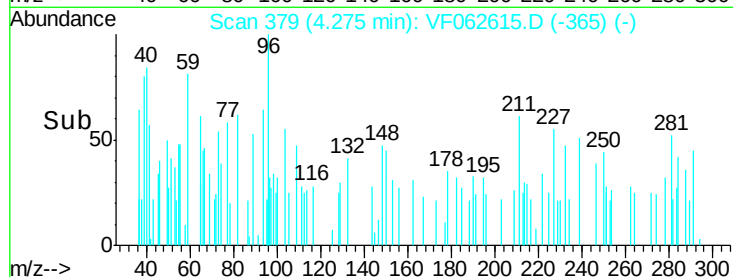
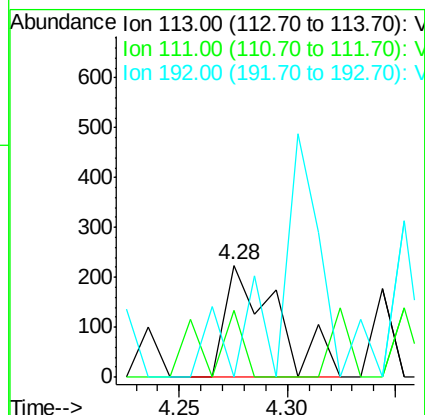
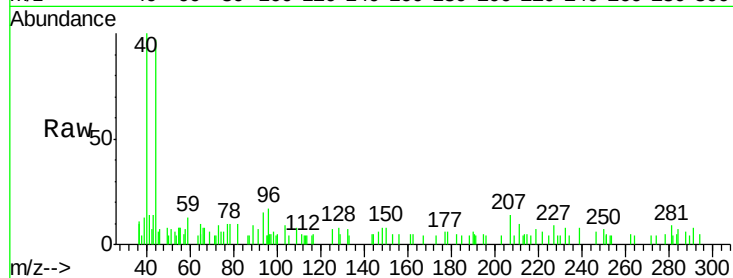




#35  
 Dibromofluoromethane  
 Concen: 747.996 ug/l  
 RT: 4.28 min Scan# 379  
 Delta R.T. -0.06 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

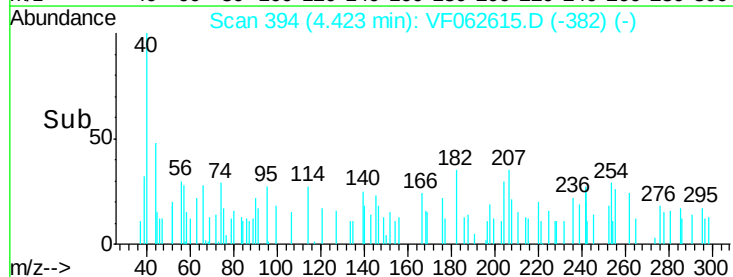
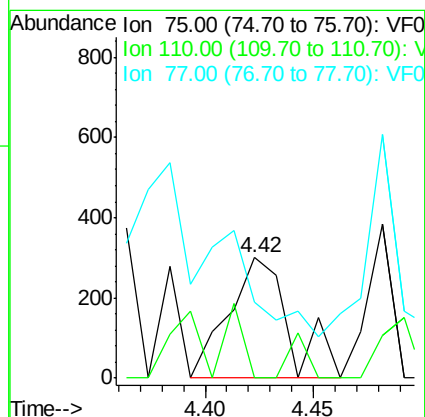
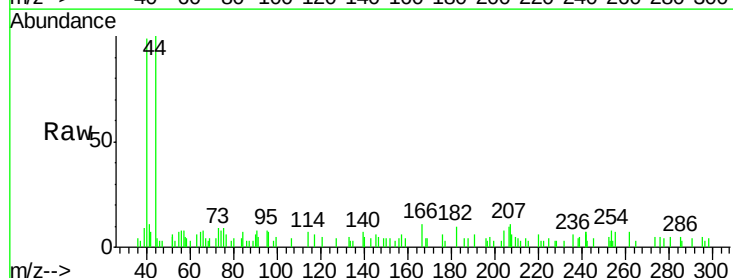
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 10-BRE

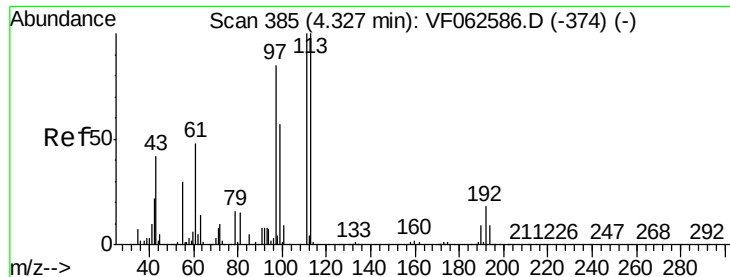
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 113     | 100   |       |        |
| 111     | 59.6  | 83.9  | 125.9# |
| 192     | 0.0   | 13.7  | 20.5#  |



#36  
 1,1-Dichloropropene  
 Concen: 1012.506 ug/l  
 RT: 4.42 min Scan# 394  
 Delta R.T. -0.08 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 0.0   | 17.3  | 51.7# |
| 77      | 63.7  | 26.4  | 39.6# |

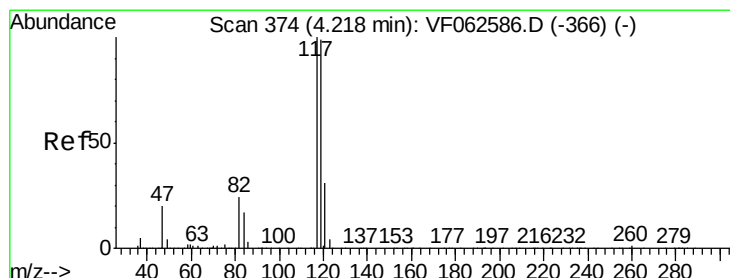
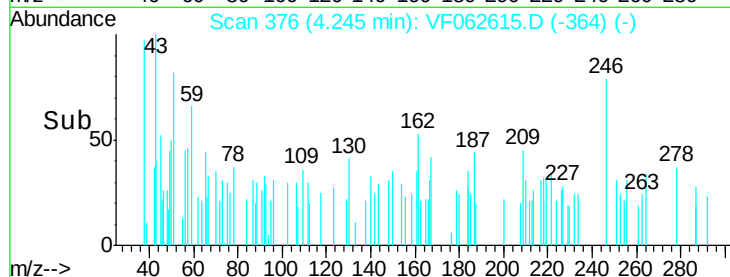
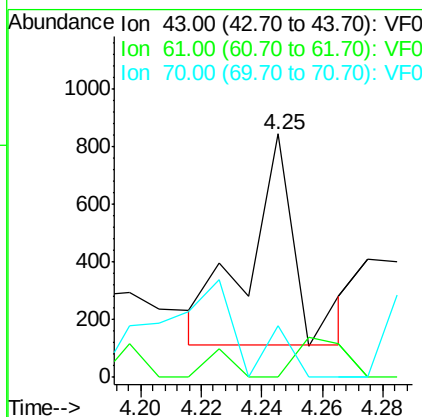
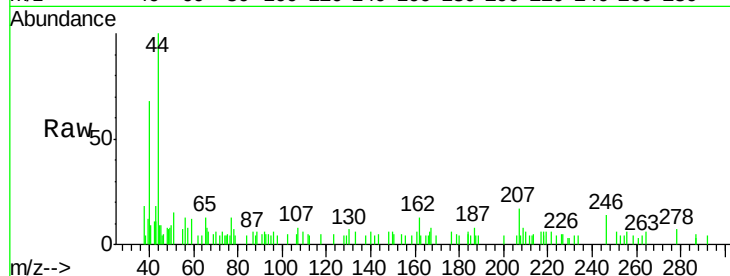




#37  
Ethyl Acetate  
Concen: 3332.756 ug/l  
RT: 4.25 min Scan# 376  
Delta R.T. -0.08 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

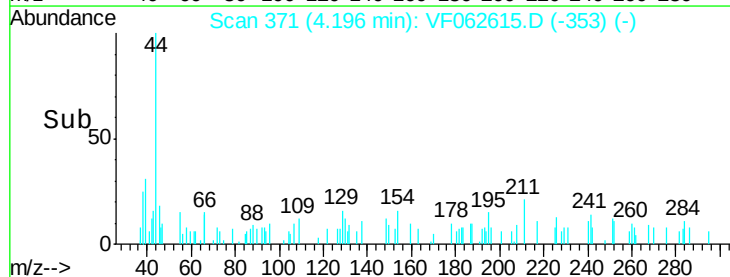
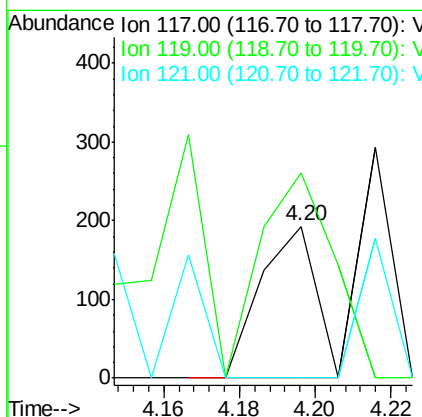
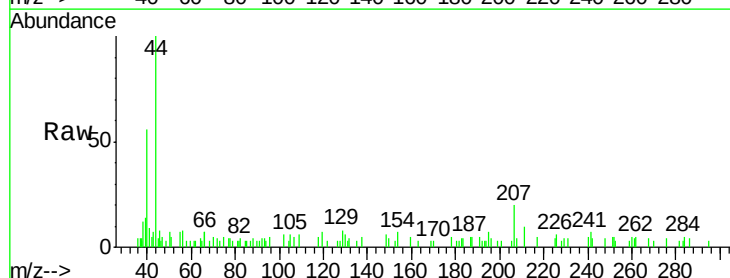
Instrument :  
MSVOA\_F  
ClientSampleId :  
10-BRE

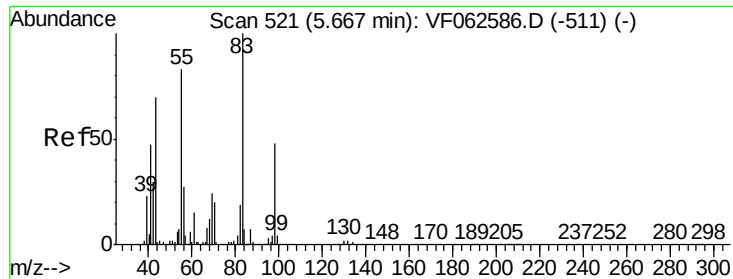
Tot Ion: 43 Resp: 794  
Ion Ratio Lower Upper  
43 100  
61 0.0 88.6 132.8#  
70 21.4 8.3 12.5#



#38  
Carbon Tetrachloride  
Concen: 410.020 ug/l  
RT: 4.20 min Scan# 371  
Delta R.T. -0.02 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion: 117 Resp: 195  
Ion Ratio Lower Upper  
117 100  
119 134.7 79.0 118.6#  
121 0.0 25.0 37.6#

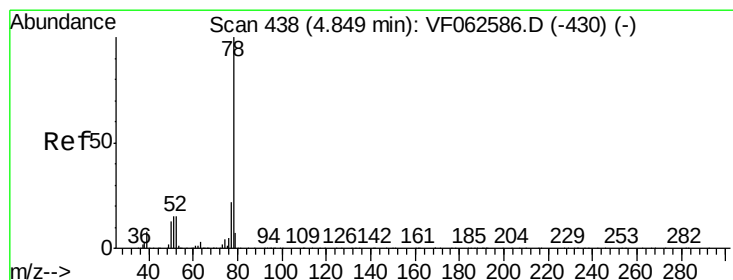
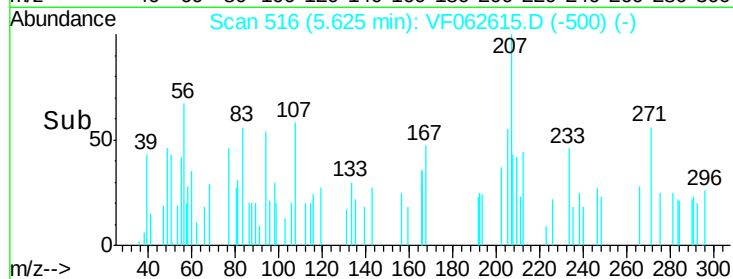
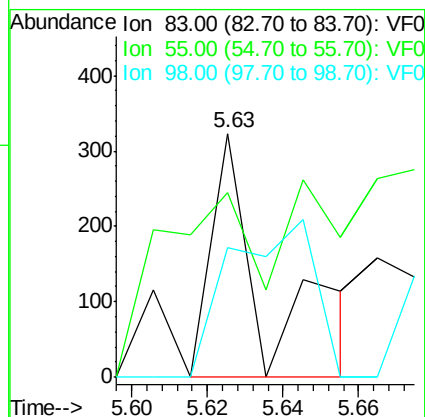
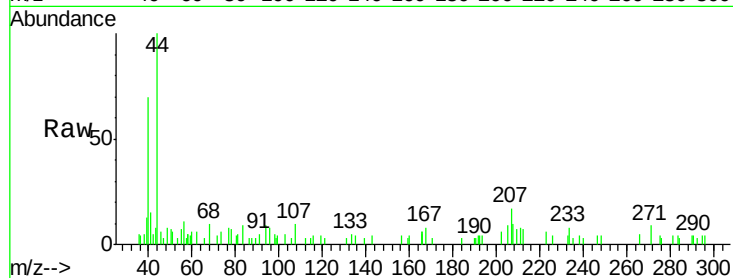




#39  
Methylvlcyclohexane  
Concen: 493.524 ug/l  
RT: 5.63 min Scan# 516  
Delta R.T. -0.04 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

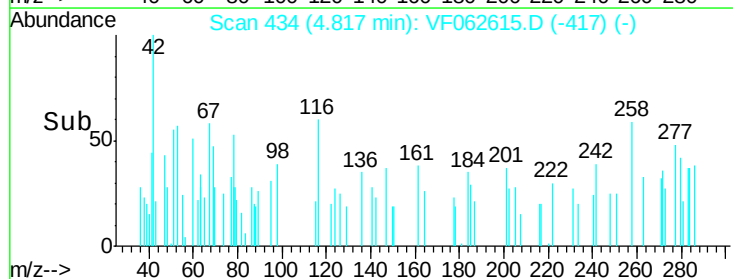
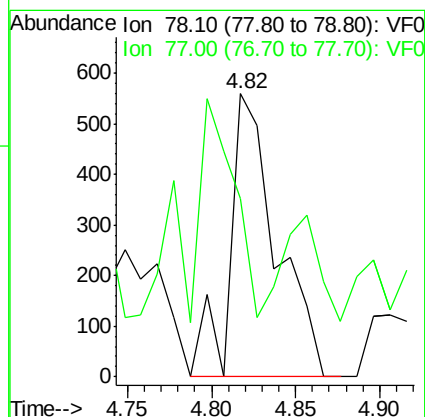
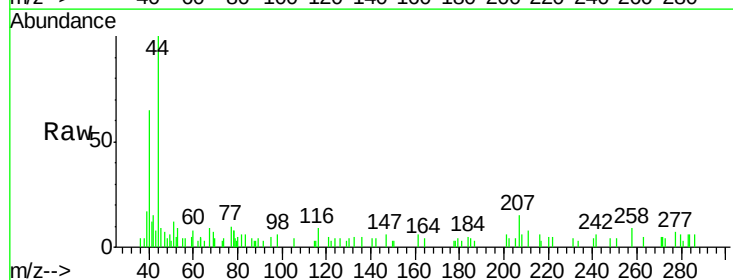
Instrument :  
MSVOA\_F  
ClientSampled :  
10-BRE

Tot Ion: 83 Resp: 335  
Ion Ratio Lower Upper  
83 100  
55 75.5 66.6 100.0  
98 53.3 38.3 57.5

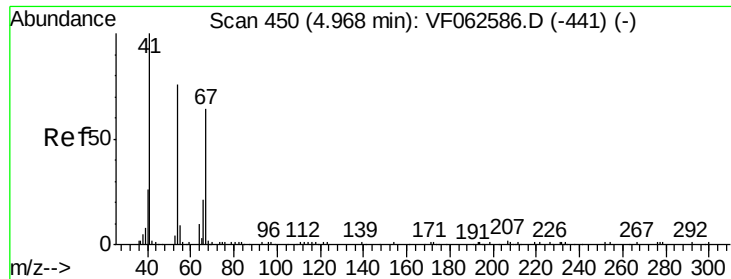


#40  
Benzene  
Concen: 648.138 ug/l  
RT: 4.82 min Scan# 434  
Delta R.T. -0.03 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion: 78 Resp: 1069  
Ion Ratio Lower Upper  
78 100  
77 63.1 17.7 26.5#







#41

Methacrylonitrile

Concen: 9813.809 ug/l

RT: 4.90 min Scan# 442

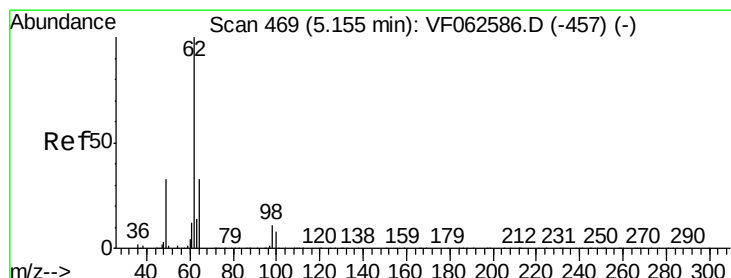
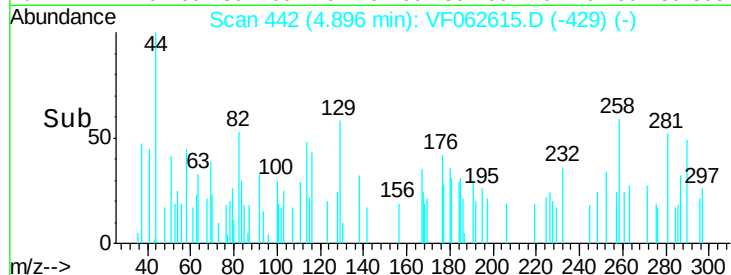
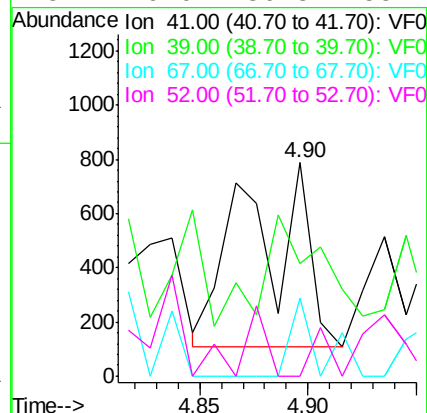
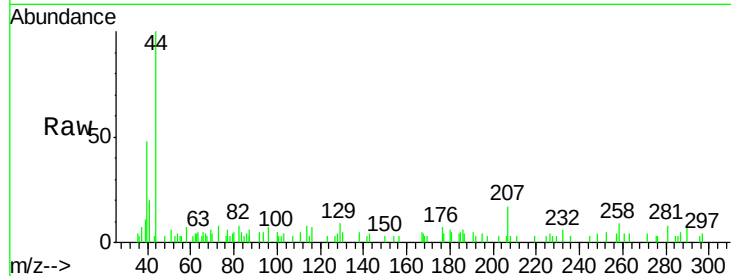
Delta R.T. -0.07 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :  
MSVOA\_F  
ClientSampleId :  
10-BRE

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 1324  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 52.5  | 40.8  | 61.2  |
| 67       | 36.4  | 50.2  | 75.2# |
| 52       | 0.0   | 36.8  | 55.2# |



#42

1,2-Dichloroethane

Concen: 417.146 ug/l

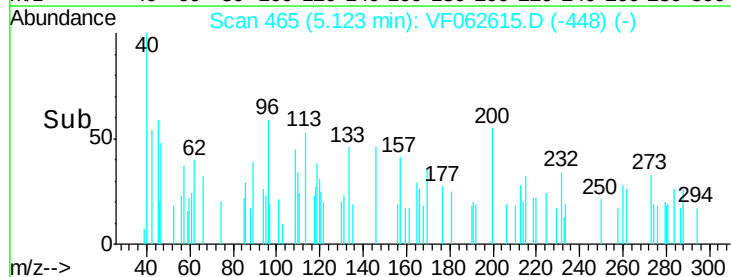
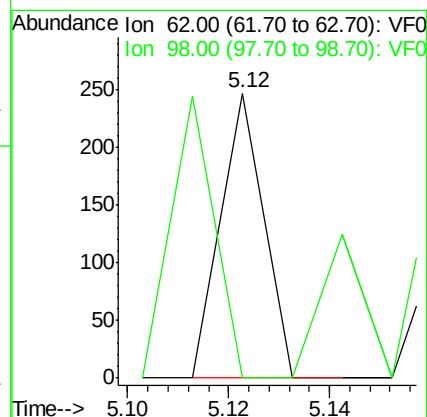
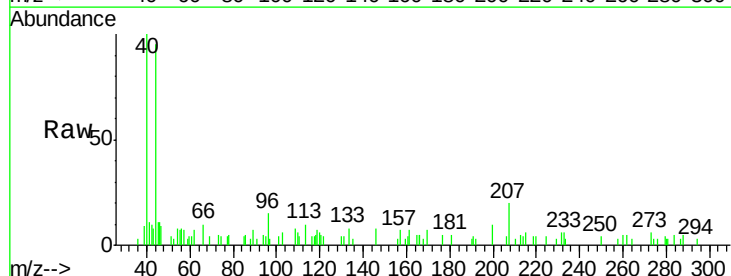
RT: 5.12 min Scan# 465

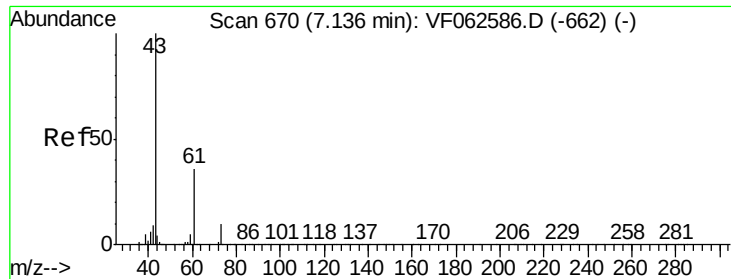
Delta R.T. -0.03 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 146   |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 0.0   | 0.0   | 22.2  |



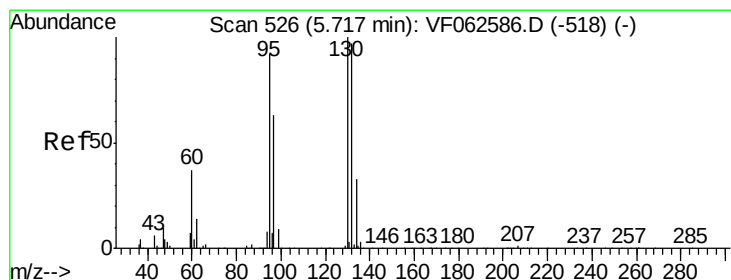
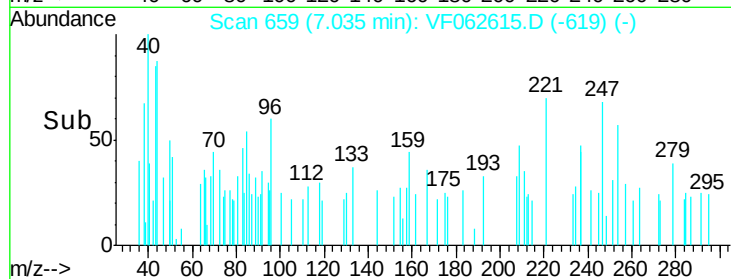
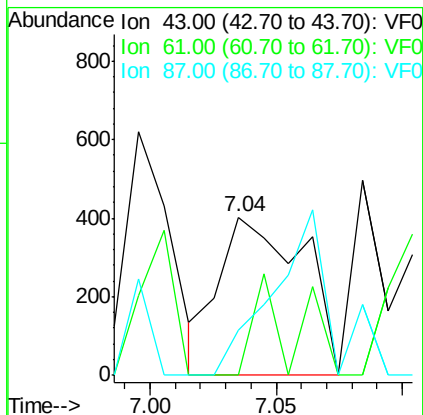
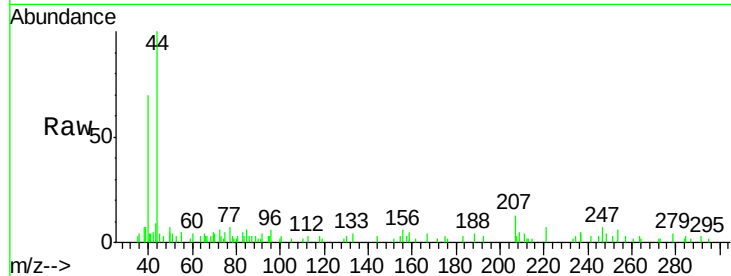


#43

Isopropyl Acetate  
 Concen: 3316.549 ug/l  
 RT: 7.04 min Scan# 659  
 Delta R.T. -0.10 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 10-BRE

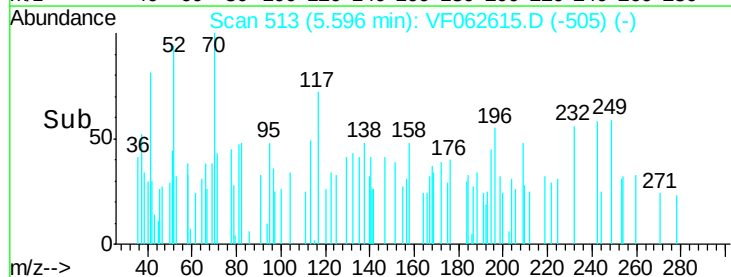
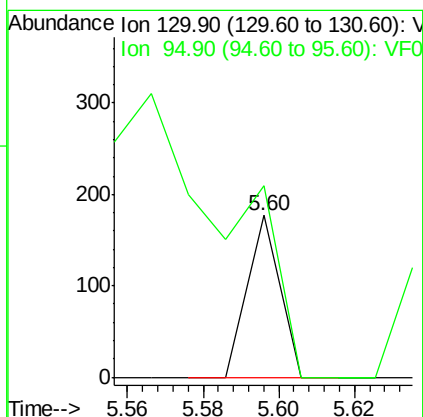
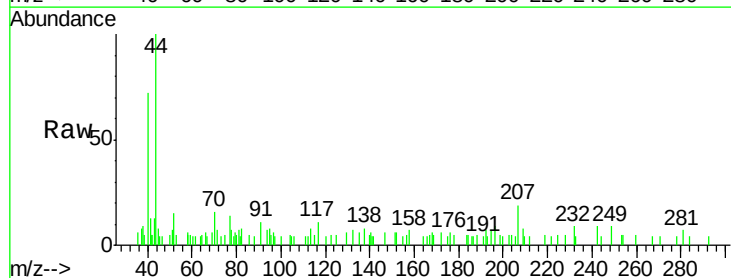
Tot Ion: 43 Resp: 935  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 28.5 42.7#  
 87 28.6 0.4 0.6#

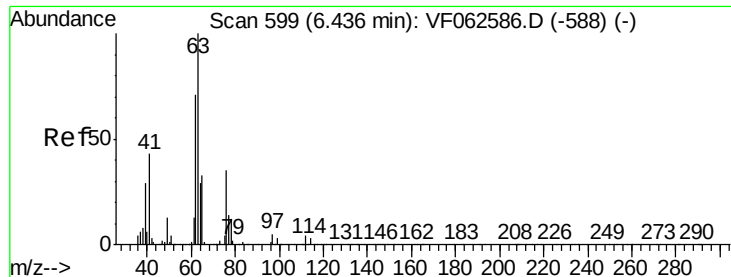


#44

Trichloroethene  
 Concen: 235.732 ug/l  
 RT: 5.60 min Scan# 513  
 Delta R.T. -0.12 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

Tgt Ion: 130 Resp: 105  
 Ion Ratio Lower Upper  
 130 100  
 95 118.6 0.0 185.0

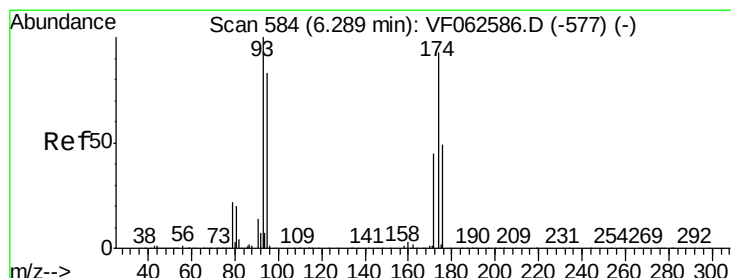
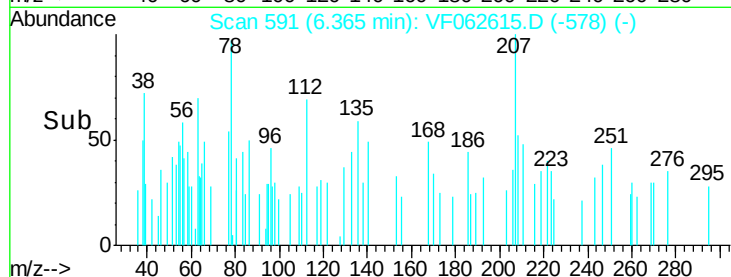
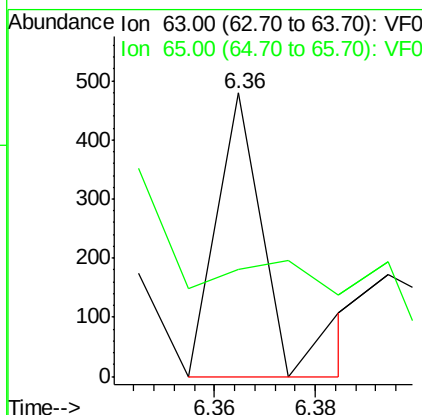
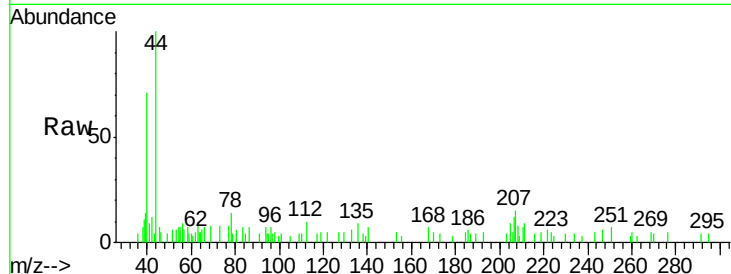




#45  
 1,2-Dichloropropane  
 Concen: 835.834 ug/l  
 RT: 6.36 min Scan# 591  
 Delta R.T. -0.07 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

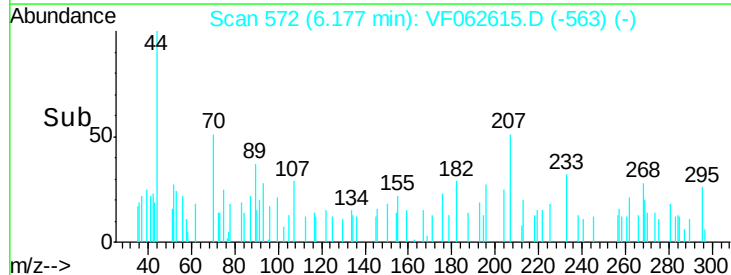
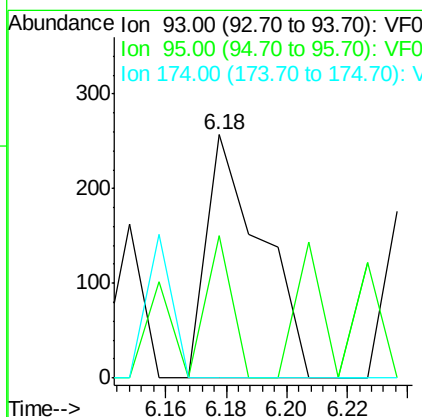
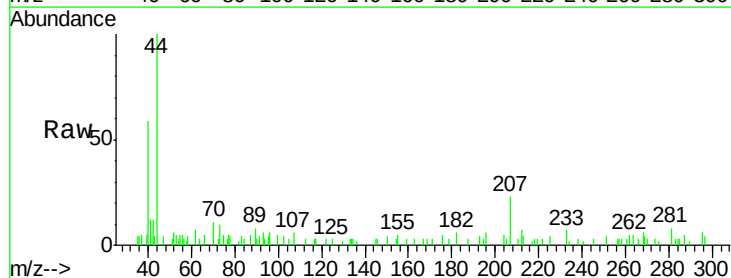
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 10-BRE

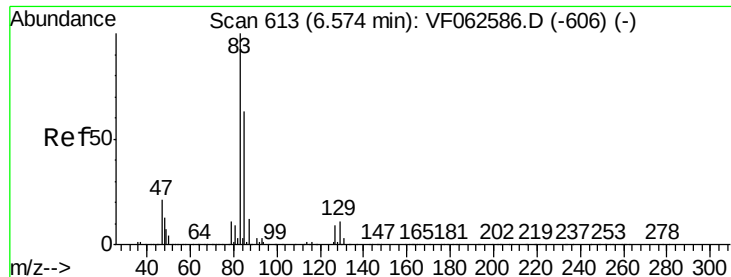
Tot Ion: 63 Resp: 347  
 Ion Ratio Lower Upper  
 63 100  
 65 38.0 26.2 39.4



#46  
 Dibromomethane  
 Concen: 1391.598 ug/l  
 RT: 6.18 min Scan# 572  
 Delta R.T. -0.11 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

Tgt Ion: 93 Resp: 323  
 Ion Ratio Lower Upper  
 93 100  
 95 58.8 66.9 100.3#  
 174 0.0 74.6 112.0#





#47

Bromodichloromethane

Concen: 294.607 ug/l

RT: 6.46 min Scan# 601

Delta R.T. -0.11 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampleId :

10-BRE

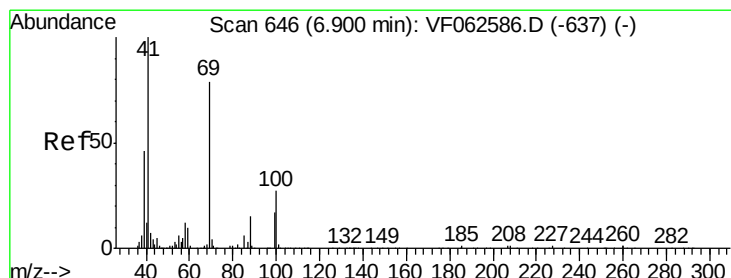
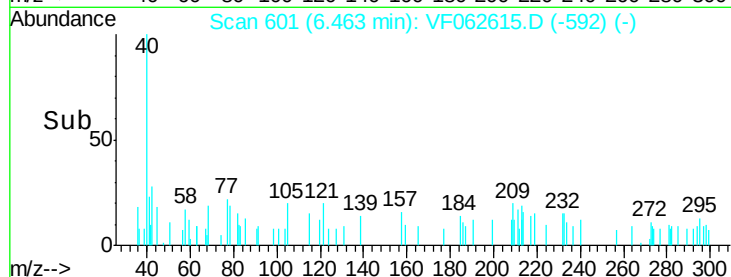
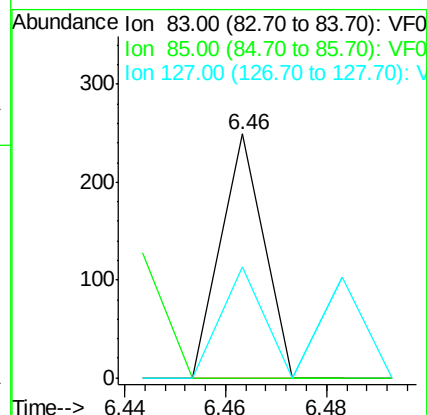
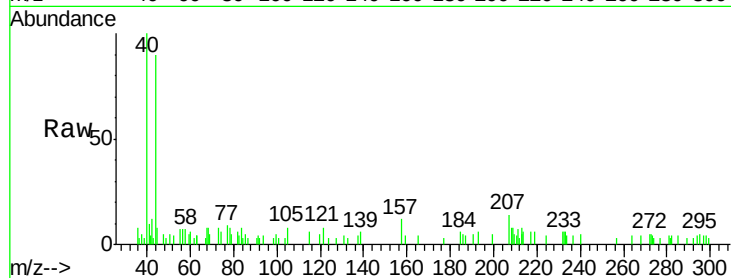
Tot Ion: 83 Resp: 147

Ion Ratio Lower Upper

83 100

85 68.3 50.3 75.5

127 45.8 7.2 10.8#



#48

Methyl methacrylate

Concen: 8787.258 ug/l

RT: 6.65 min Scan# 620

Delta R.T. -0.25 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

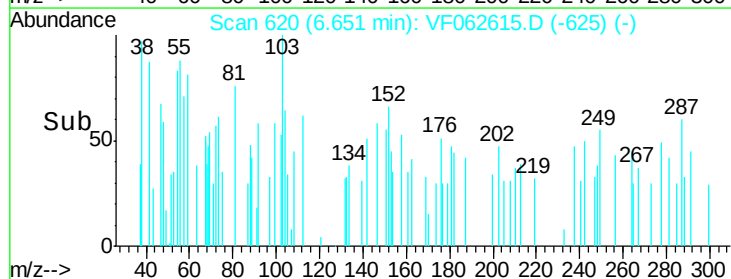
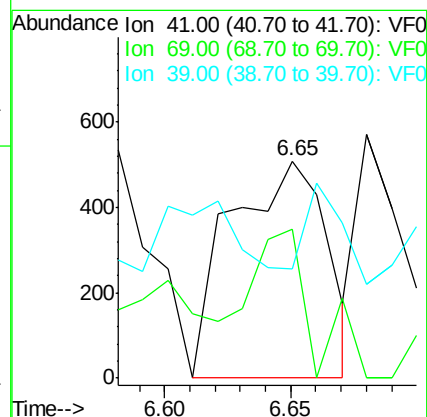
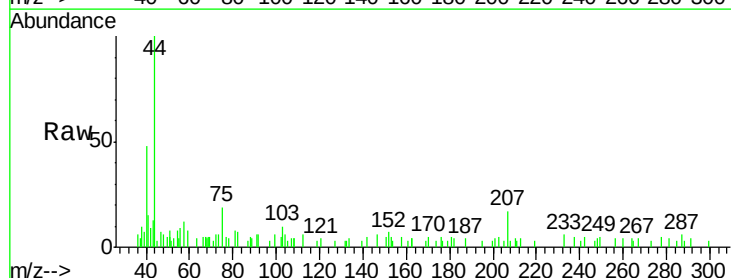
Tgt Ion: 41 Resp: 1356

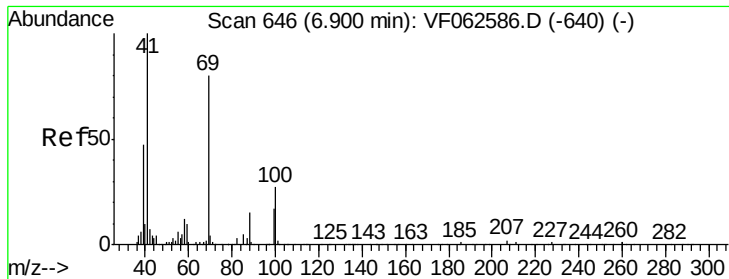
Ion Ratio Lower Upper

41 100

69 68.4 63.0 94.6

39 50.1 37.6 56.4





#49

1,4-Dioxane

Concen: 107695.436 ug/l

RT: 6.78 min Scan# 633

Delta R.T. -0.12 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

10-BRE

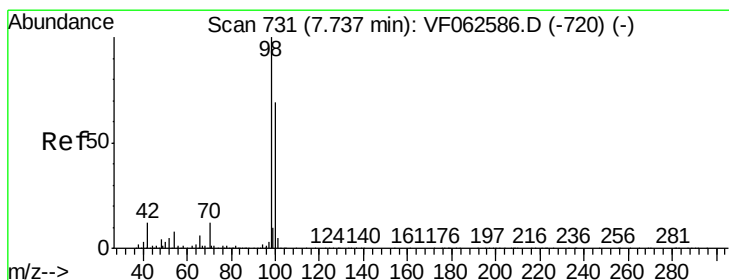
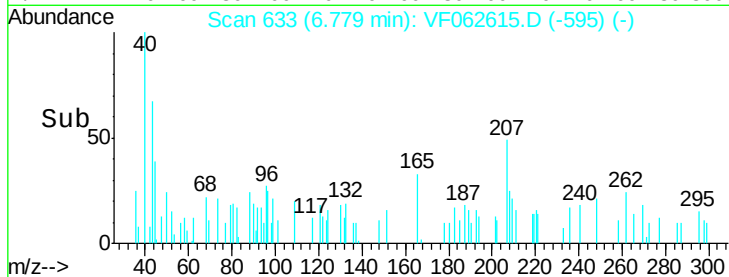
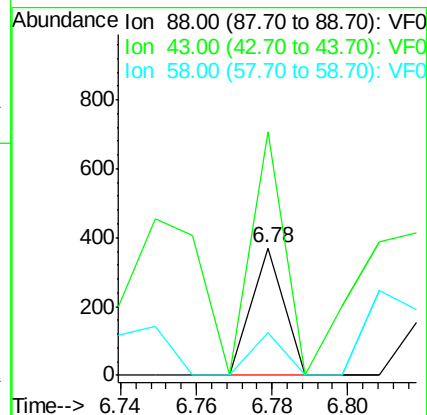
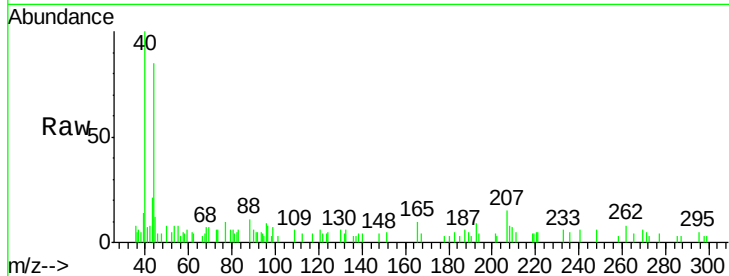
Tot Ion: 88 Resp: 219

Ion Ratio Lower Upper

88 100

43 191.1 28.8 43.2#

58 33.5 60.6 90.8#



#50

Toluene-d8

Concen: 101.271 ug/l

RT: 7.65 min Scan# 721

Delta R.T. -0.09 min

Lab File: VF062615.D

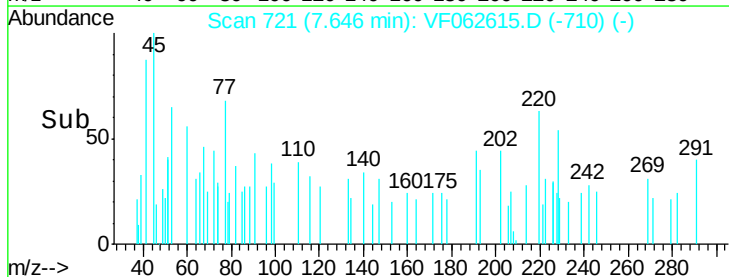
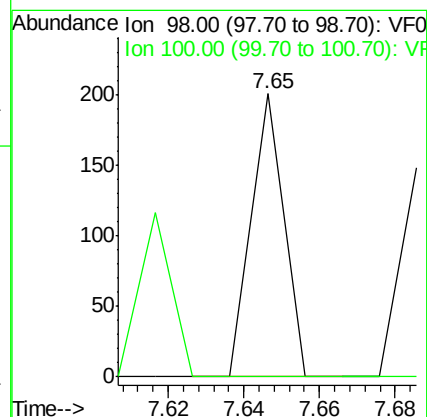
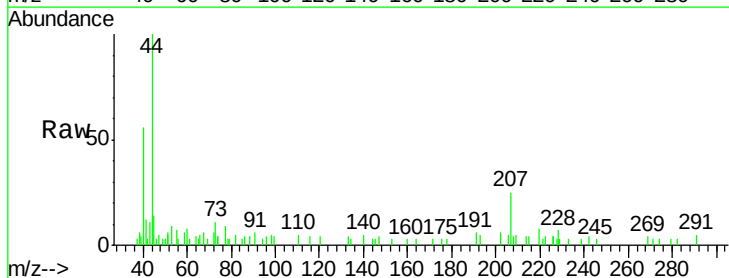
Acq: 15 May 2019 18:13

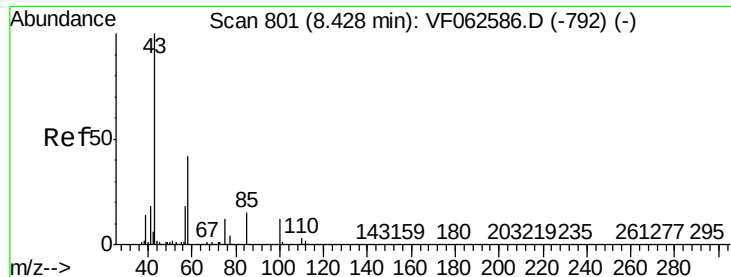
Tgt Ion: 98 Resp: 119

Ion Ratio Lower Upper

98 100

100 0.0 55.4 83.0#





#51

4-Methyl-2-Pentanone

Concen: 2226.837 ug/l

RT: 8.28 min Scan# 785

Delta R.T. -0.15 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

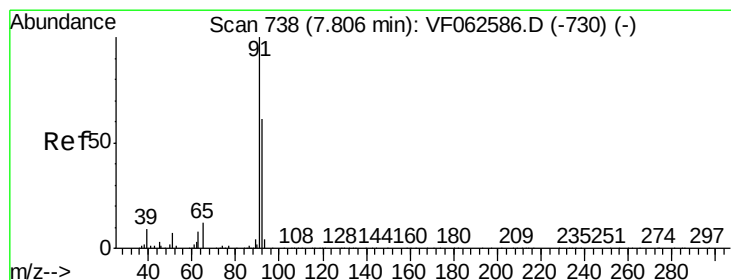
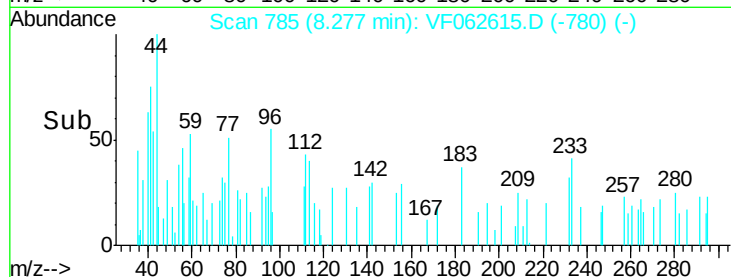
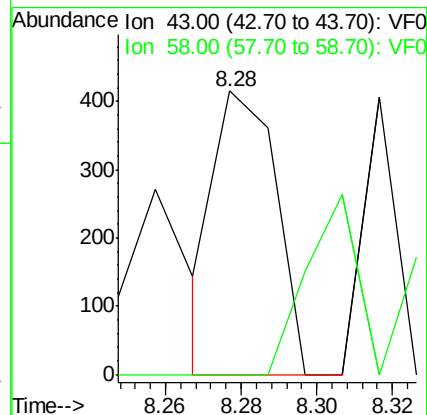
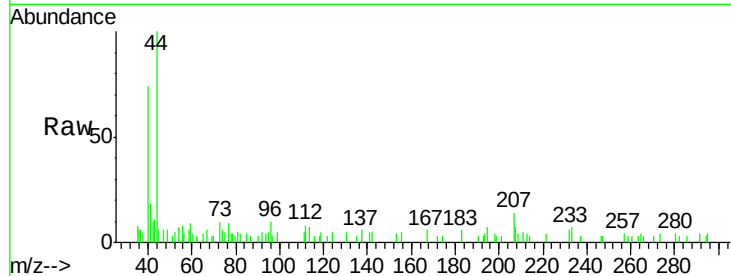
10-BRE

Tot Ion: 43 Resp: 460

Ion Ratio Lower Upper

43 100

58 0.0 33.6 50.4#



#52

Toluene

Concen: 100.249 ug/l

RT: 7.76 min Scan# 733

Delta R.T. -0.04 min

Lab File: VF062615.D

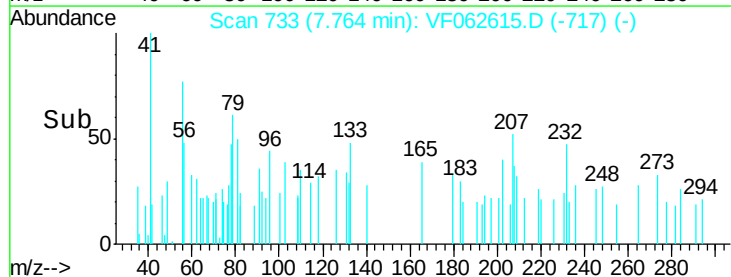
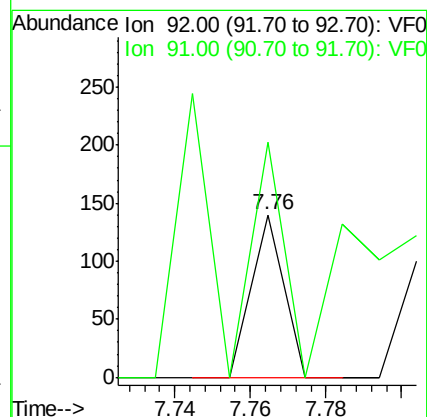
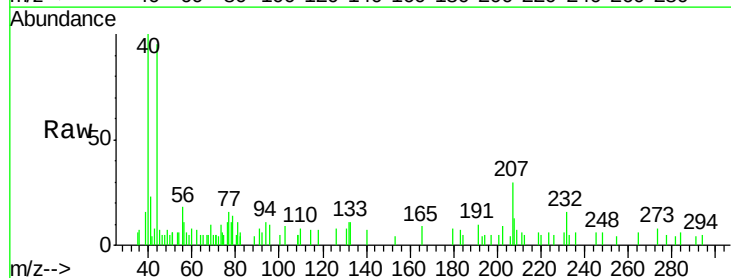
Acq: 15 May 2019 18:13

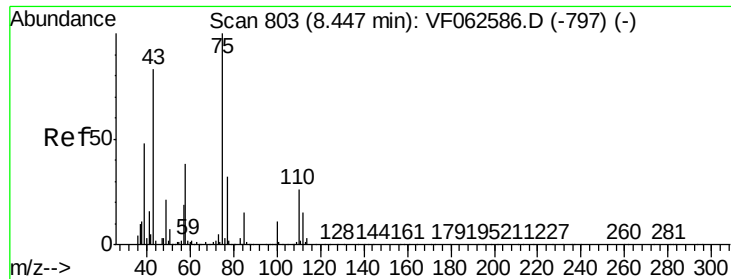
Tgt Ion: 92 Resp: 83

Ion Ratio Lower Upper

92 100

91 145.0 131.0 196.4

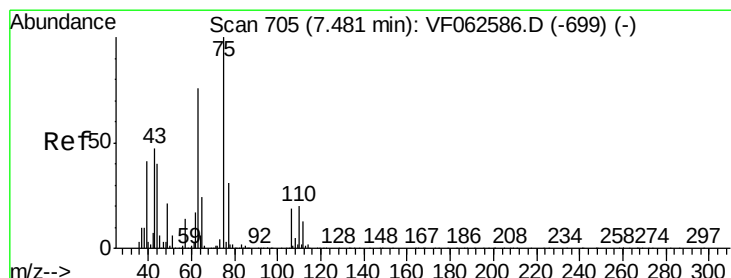
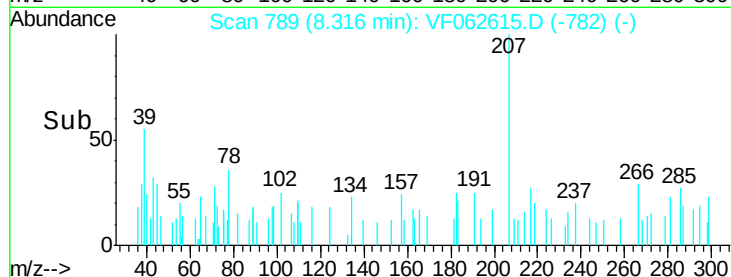
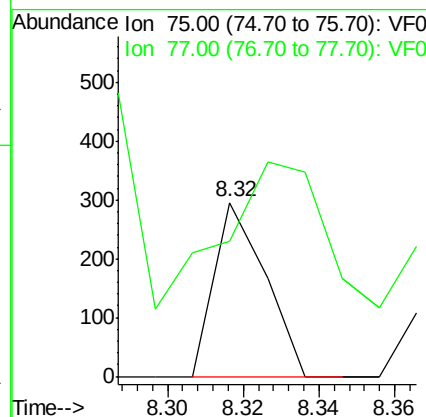
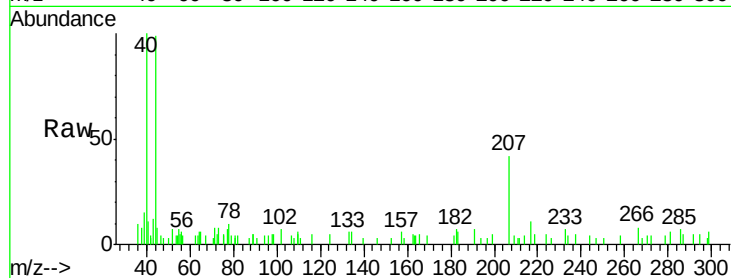




#53  
t-1,3-Dichloropropene  
Concen: 692.552 ug/l  
RT: 8.32 min Scan# 789  
Delta R.T. -0.13 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

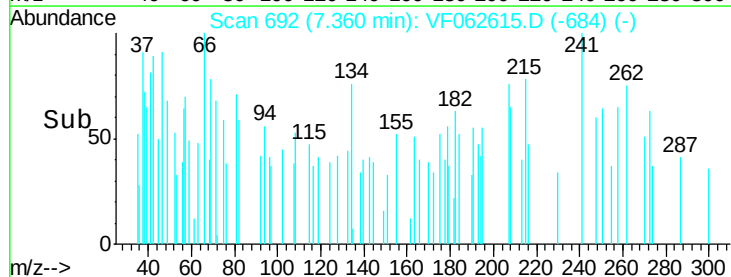
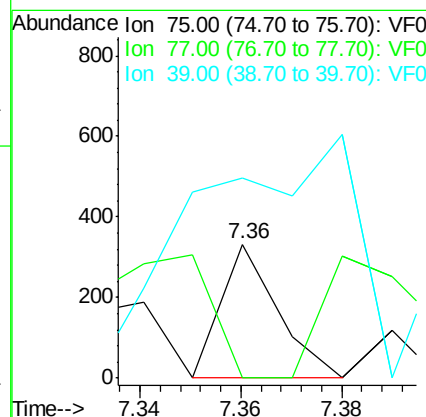
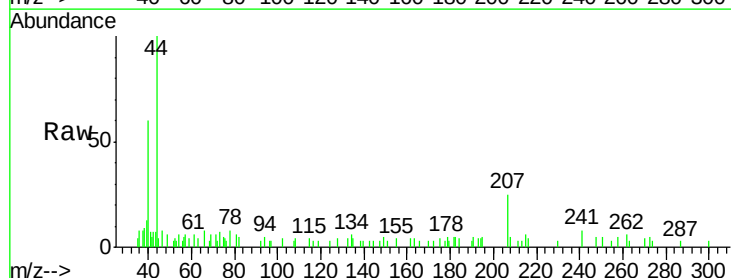
Instrument :  
MSVOA\_F  
ClientSampled :  
10-BRE

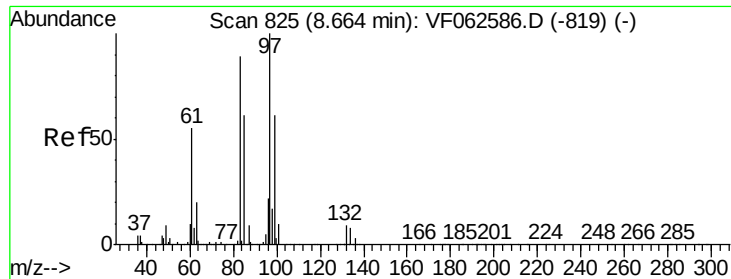
Tot Ion: 75 Resp: 273  
Ion Ratio Lower Upper  
75 100  
77 77.7 25.7 38.5#



#54  
cis-1,3-Dichloropropene  
Concen: 461.358 ug/l  
RT: 7.36 min Scan# 692  
Delta R.T. -0.12 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion: 75 Resp: 257  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.0 37.6#  
39 150.0 32.8 49.2#





#55

1,1,2-Trichloroethane

Concen: 568.787 ug/l

RT: 8.52 min Scan# 810

Delta R.T. -0.14 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

10-BRE

Tot Ion: 97 Resp: 141

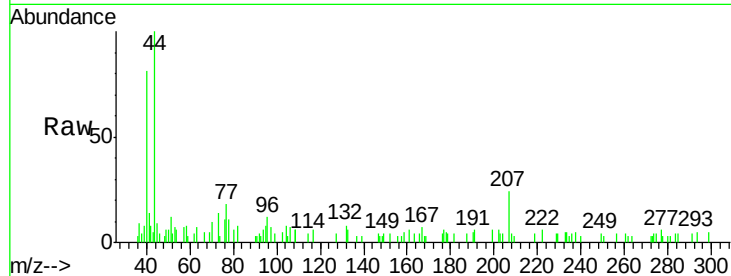
Ion Ratio Lower Upper

97 100

83 0.0 71.3 106.9#

85 0.0 48.9 73.3#

99 56.3 48.4 72.6

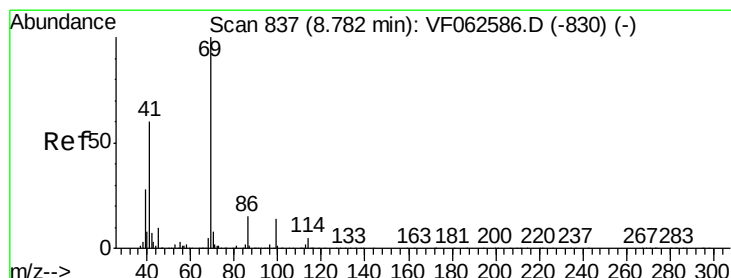
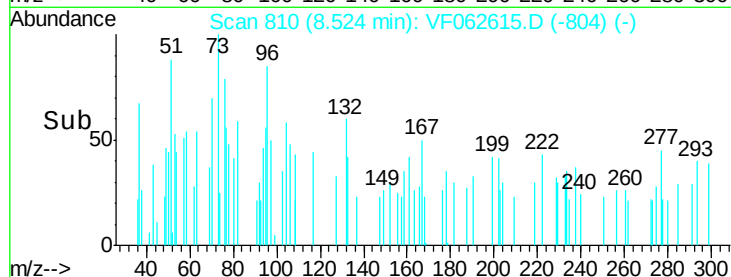
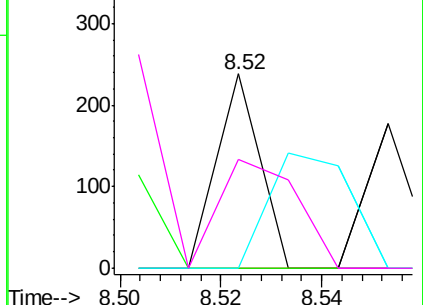


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 1365.496 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.14 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

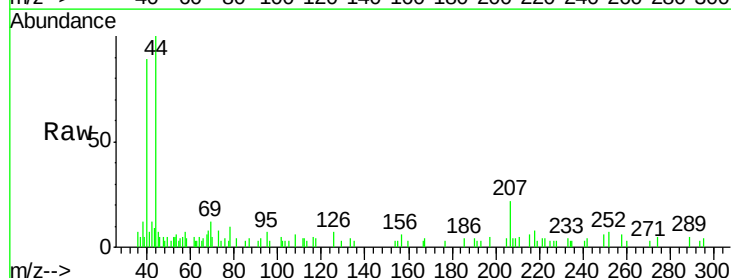
Tgt Ion: 69 Resp: 371

Ion Ratio Lower Upper

69 100

41 52.7 48.1 72.1

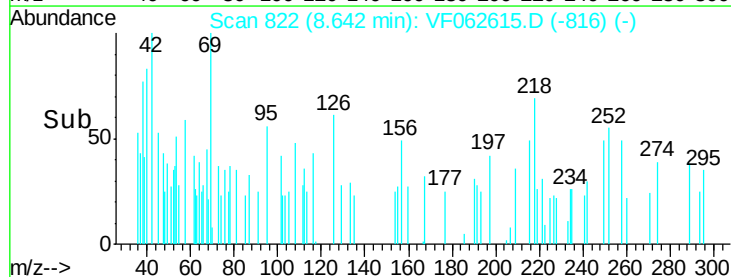
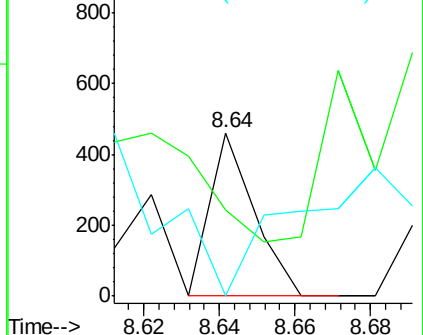
39 0.0 22.5 33.7#



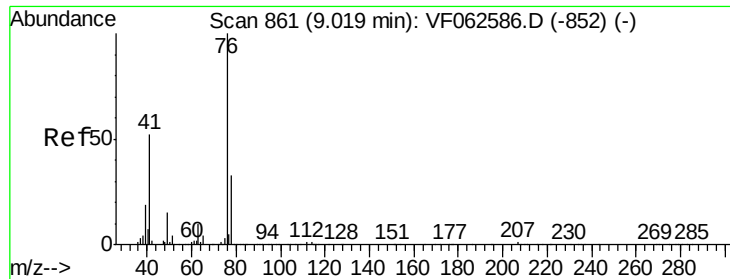
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0







#57

1,3-Dichloropropane

Concen: 1024.076 ug/l

RT: 8.94 min Scan# 852

Delta R.T. -0.08 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

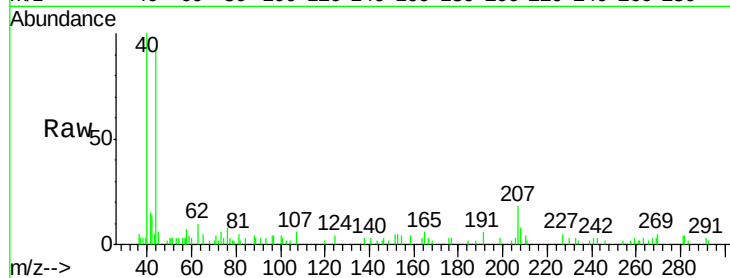
10-BRE

Tot Ion: 76 Resp: 419

Ion Ratio Lower Upper

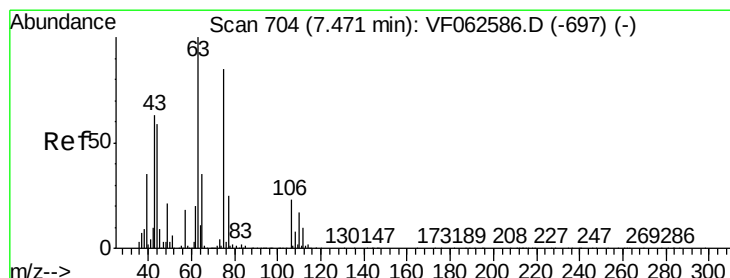
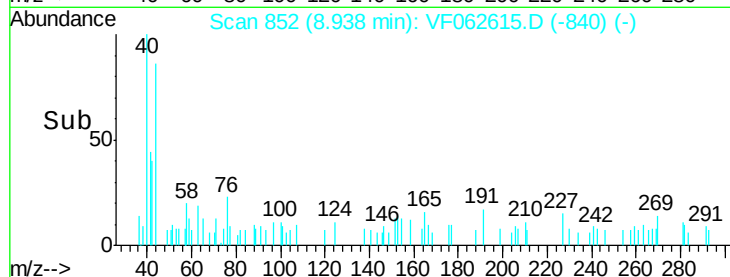
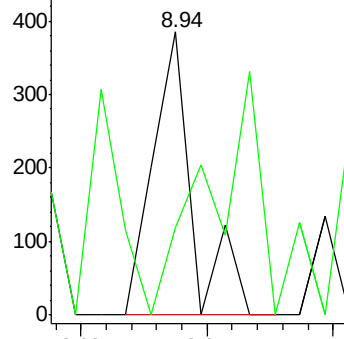
76 100

78 30.6 26.4 39.6



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 1046.926 ug/l

RT: 7.36 min Scan# 692

Delta R.T. -0.11 min

Lab File: VF062615.D

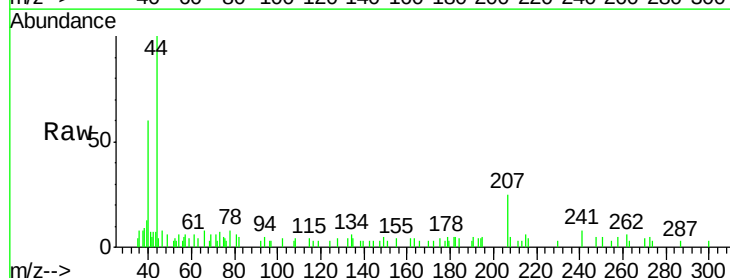
Acq: 15 May 2019 18:13

Tgt Ion: 63 Resp: 89

Ion Ratio Lower Upper

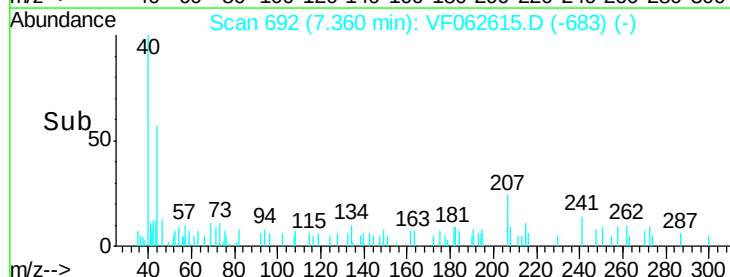
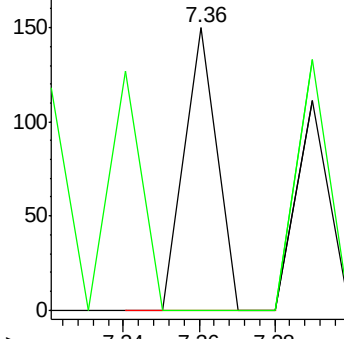
63 100

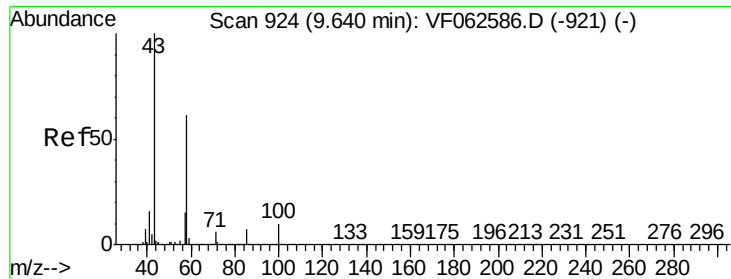
106 0.0 18.0 27.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

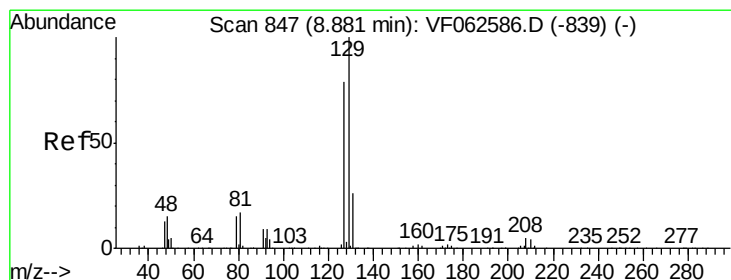
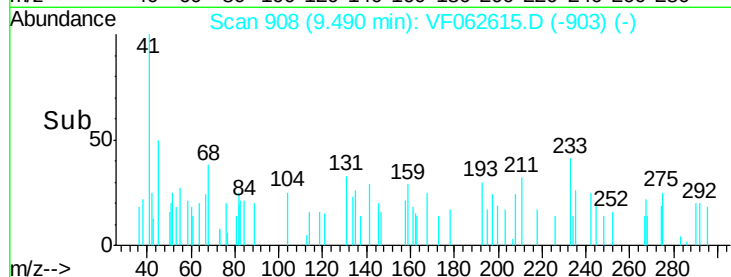
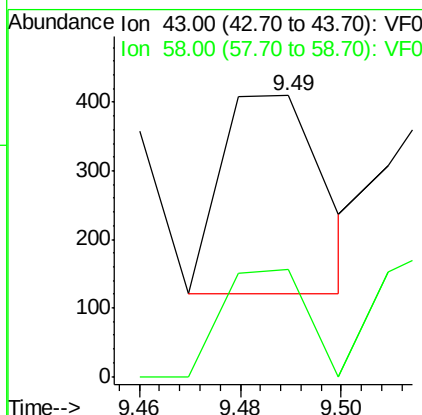
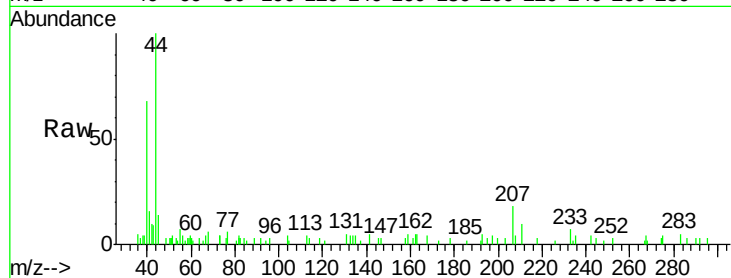




#59  
2-Hexanone  
Concen: 2997.899 ug/l  
RT: 9.49 min Scan# 908  
Delta R.T. -0.15 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

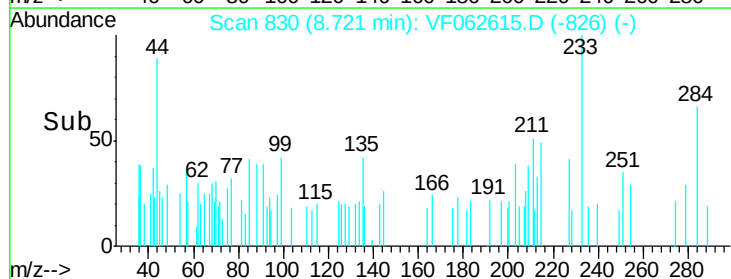
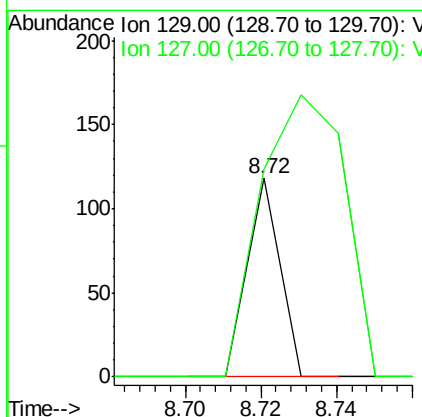
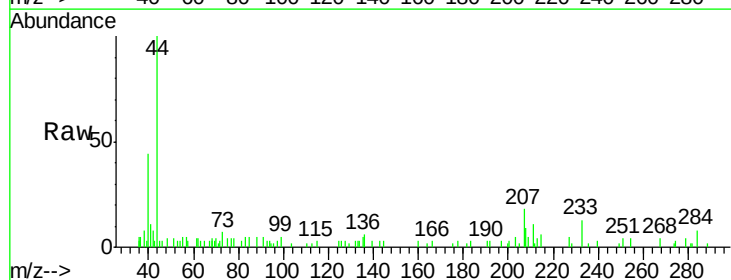
Instrument :  
MSVOA\_F  
ClientSampled :  
10-BRE

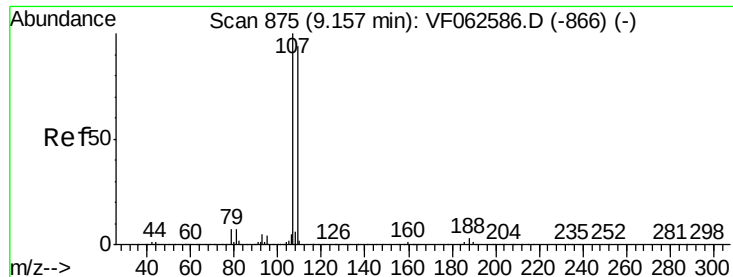
Tot Ion: 43 Resp: 409  
Ion Ratio Lower Upper  
43 100  
58 38.0 28.7 86.3



#60  
Dibromochloromethane  
Concen: 222.249 ug/l  
RT: 8.72 min Scan# 830  
Delta R.T. -0.16 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion: 129 Resp: 70  
Ion Ratio Lower Upper  
129 100  
127 105.1 39.3 117.9





#61

1,2-Dibromoethane

Concen: 341.875 ug/l

RT: 8.86 min Scan# 844

Delta R.T. -0.30 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampleId :

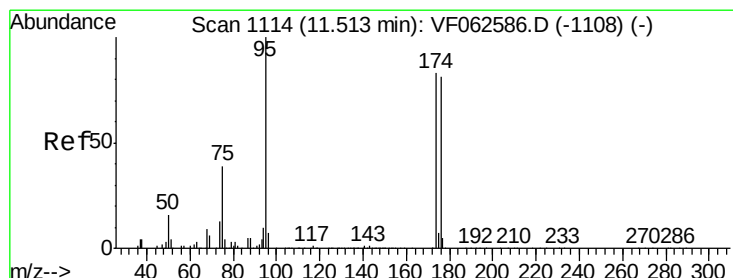
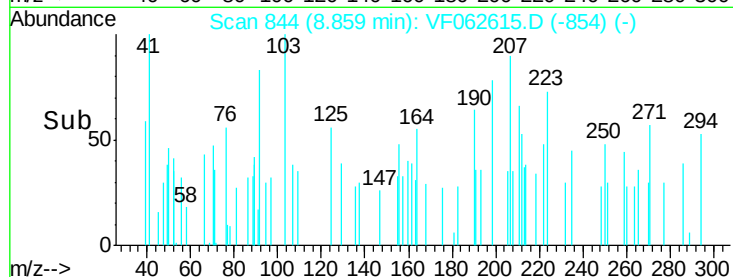
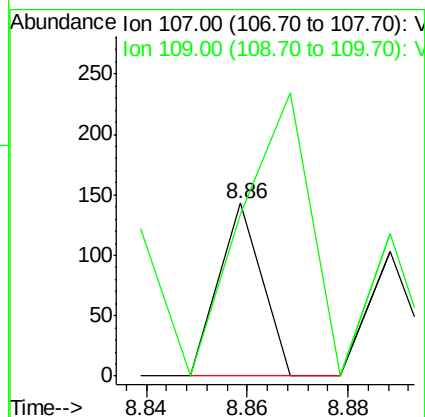
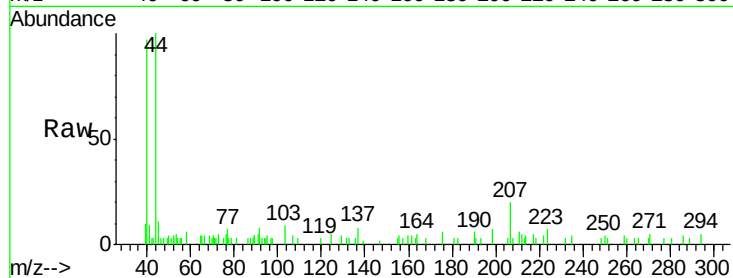
10-BRE

Tot Ion:107 Resp: 85

Ion Ratio Lower Upper

107 100

109 93.7 74.9 112.3



#62

4-Bromofluorobenzene

Concen: 611.631 ug/l

RT: 11.36 min Scan# 1098

Delta R.T. -0.15 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

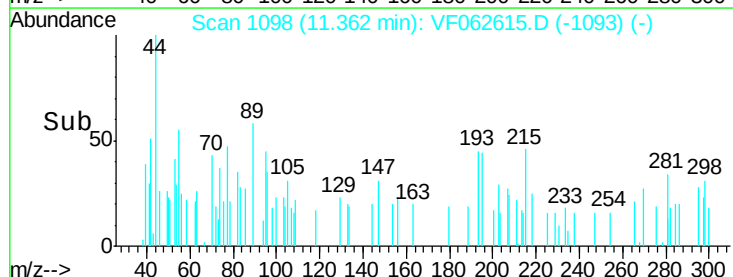
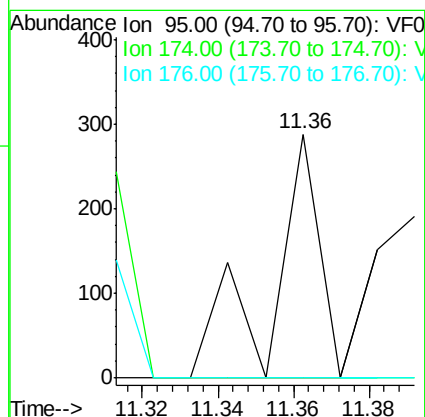
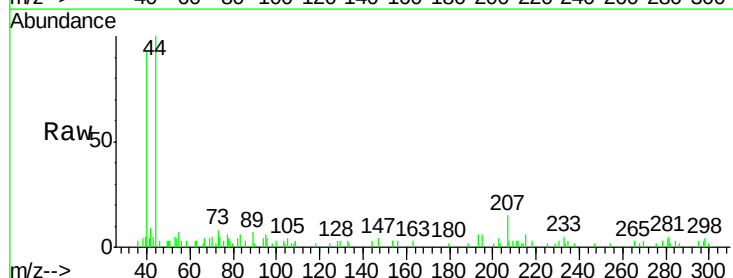
Tgt Ion: 95 Resp: 251

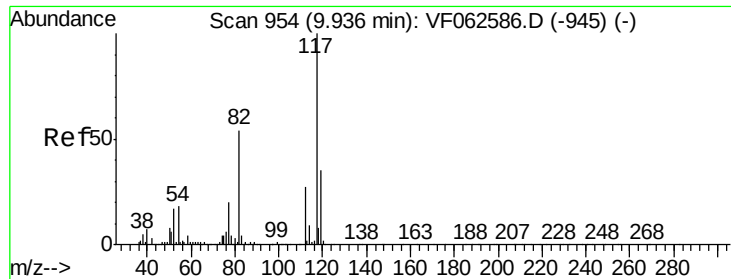
Ion Ratio Lower Upper

95 100

174 0.0 0.0 166.6

176 0.0 0.0 161.8

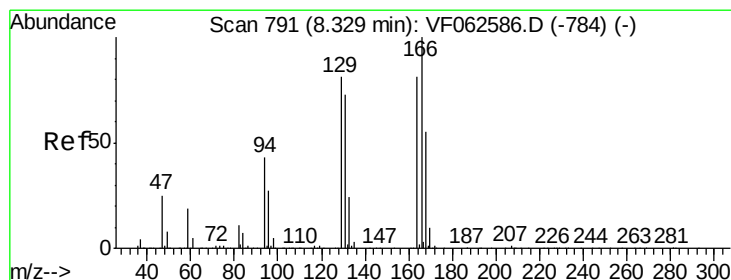
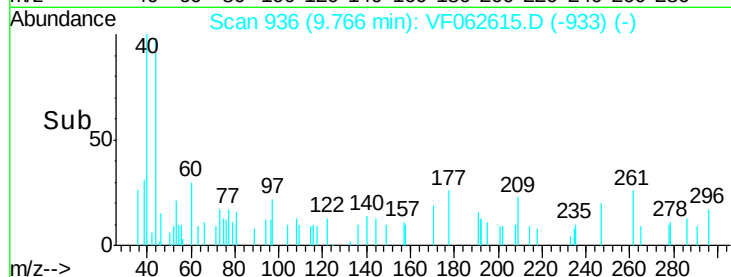
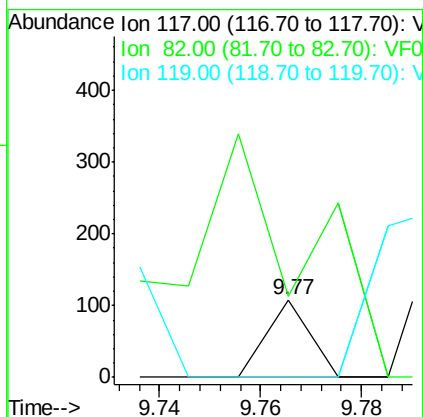
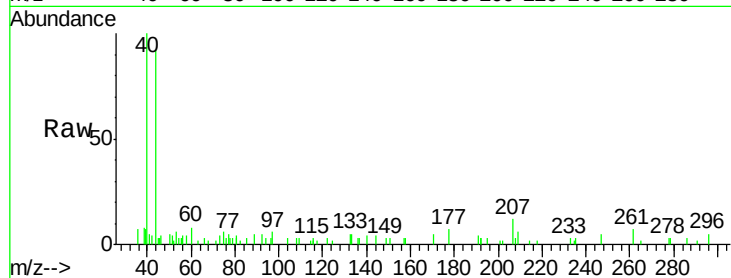




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.77 min Scan# 936  
Delta R.T. -0.17 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

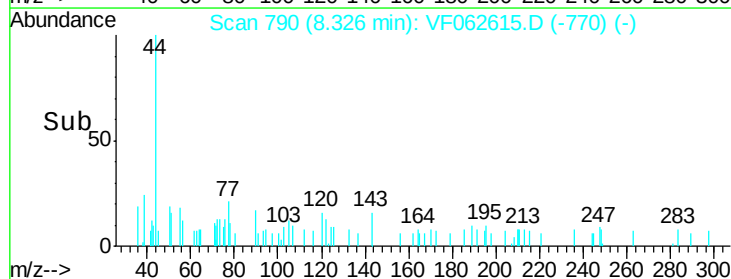
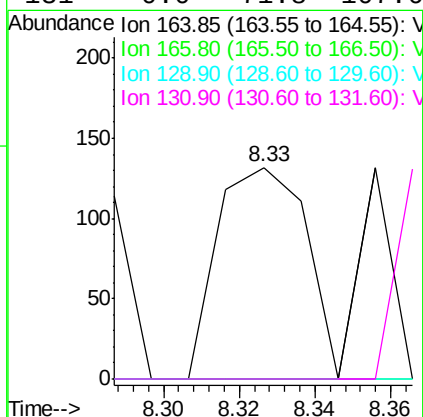
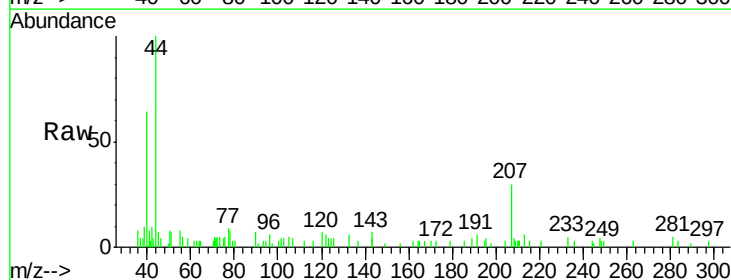
Instrument :  
MSVOA\_F  
ClientSampleId :  
10-BRE

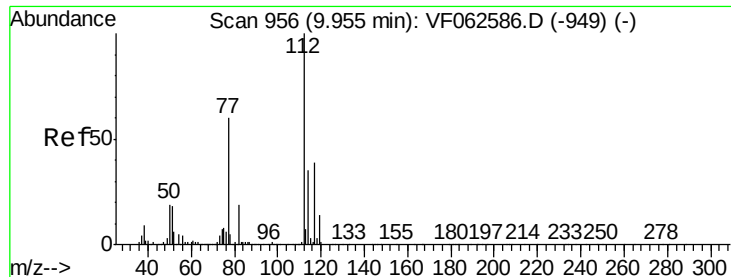
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 104.6 | 43.4  | 65.0# |
| 119     | 0.0   | 27.7  | 41.5# |



#64  
Tetrachloroethene  
Concen: 503.654 ug/l  
RT: 8.33 min Scan# 790  
Delta R.T. -0.00 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 0.0   | 98.6  | 148.0# |
| 129     | 0.0   | 80.2  | 120.4# |
| 131     | 0.0   | 71.8  | 107.6# |

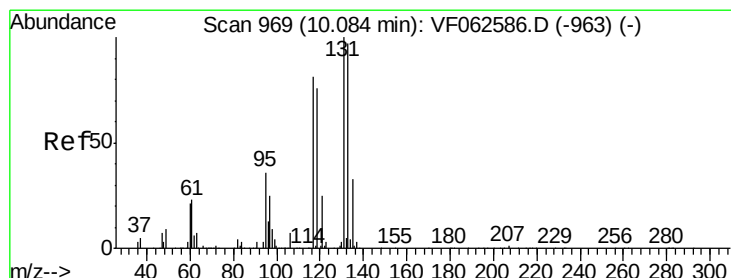
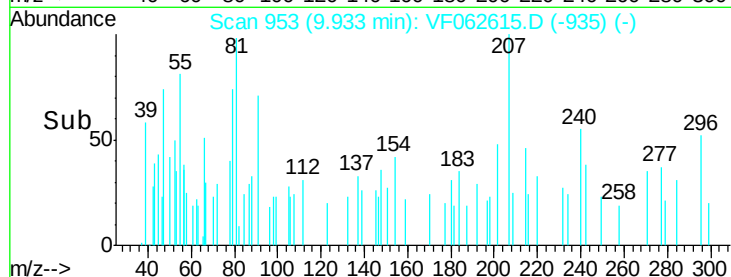
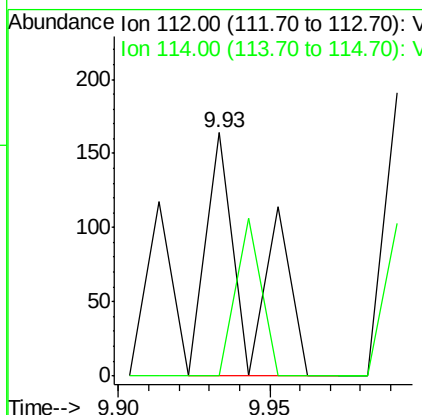
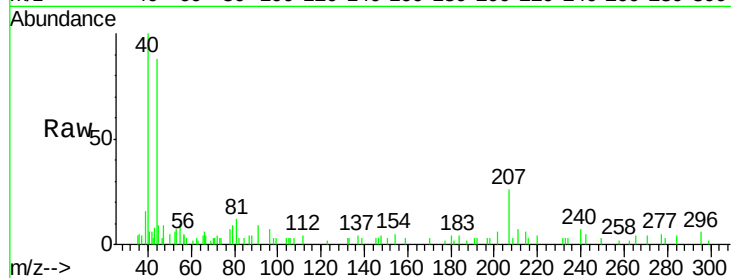




#65  
Chlorobenzene  
Concen: 147.396 ug/l  
RT: 9.93 min Scan# 953  
Delta R.T. -0.02 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

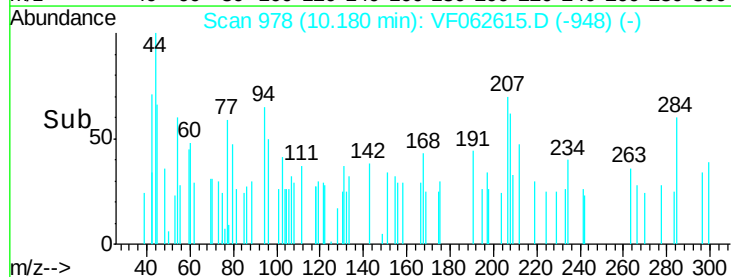
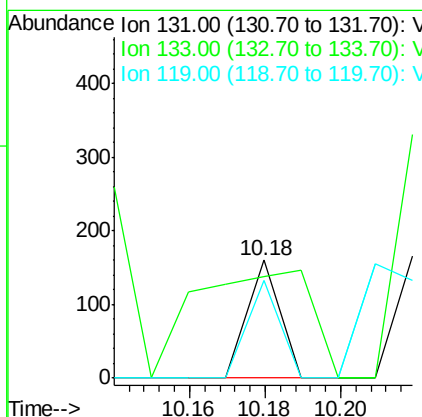
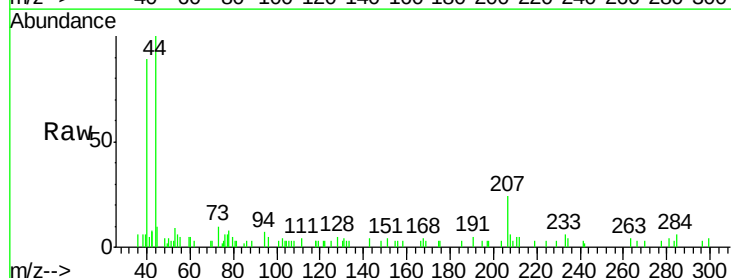
Instrument :  
MSVOA\_F  
ClientSampled :  
10-BRE

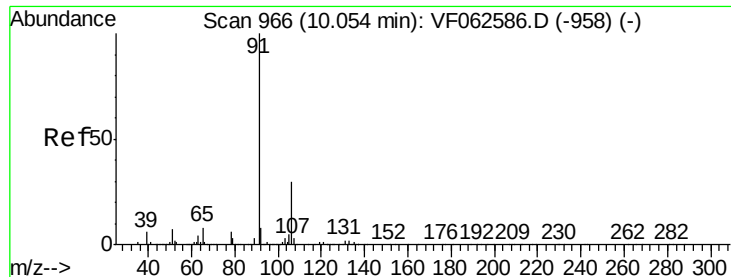
Tot Ion:112 Resp: 164  
Ion Ratio Lower Upper  
112 100  
114 0.0 27.9 41.9#



#66  
1,1,1,2-Tetrachloroethane  
Concen: 207.872 ug/l  
RT: 10.18 min Scan# 978  
Delta R.T. 0.10 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion:131 Resp: 95  
Ion Ratio Lower Upper  
131 100  
133 85.6 48.4 145.3  
119 82.5 38.5 115.5





#67

Ethyl Benzene

Concen: 197.791 ug/l

RT: 9.93 min Scan# 953

Delta R.T. -0.12 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampleId :

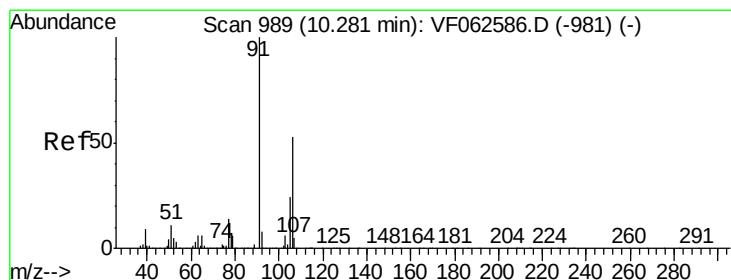
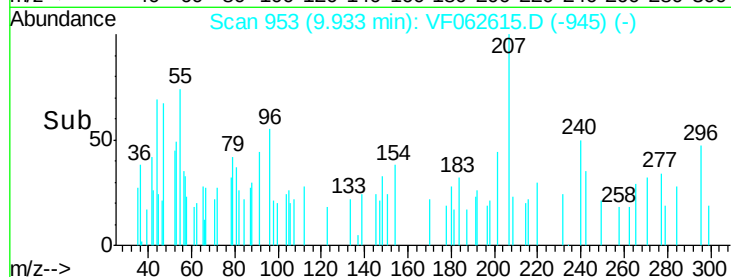
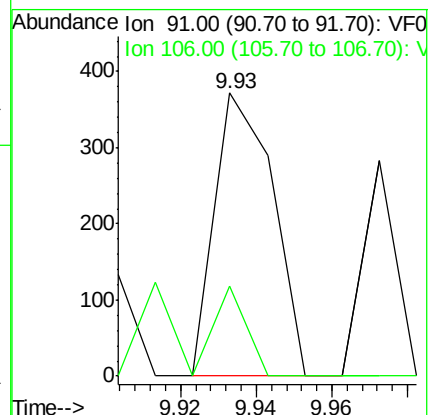
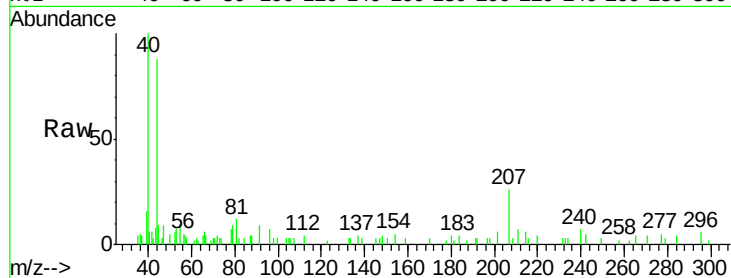
10-BRE

Tot Ion: 91 Resp: 391

Ion Ratio Lower Upper

91 100

106 31.7 24.2 36.4



#68

m/p-Xylenes

Concen: 112.749 ug/l

RT: 10.21 min Scan# 981

Delta R.T. -0.07 min

Lab File: VF062615.D

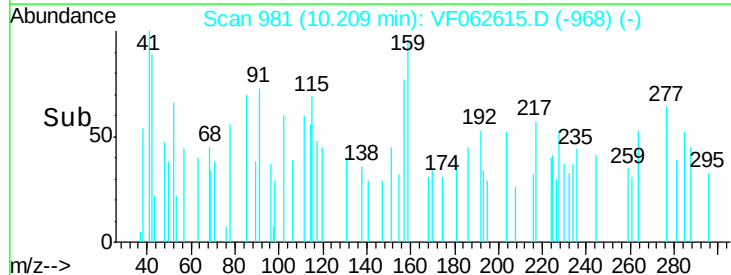
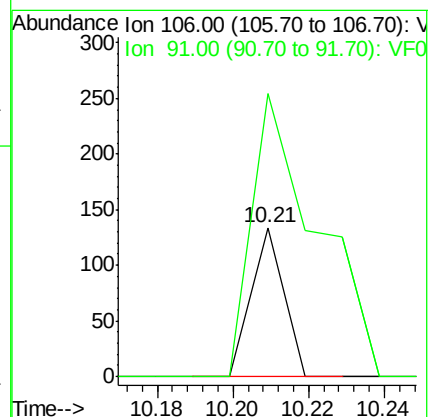
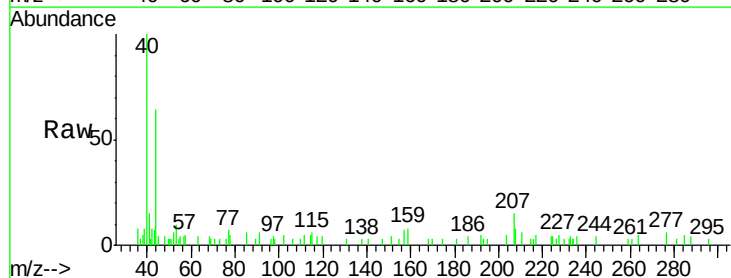
Acq: 15 May 2019 18:13

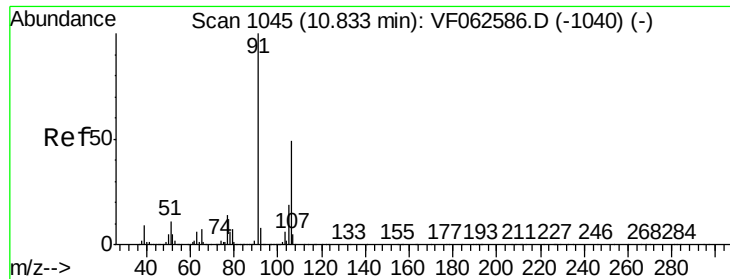
Tgt Ion: 106 Resp: 79

Ion Ratio Lower Upper

106 100

91 189.6 150.5 225.7

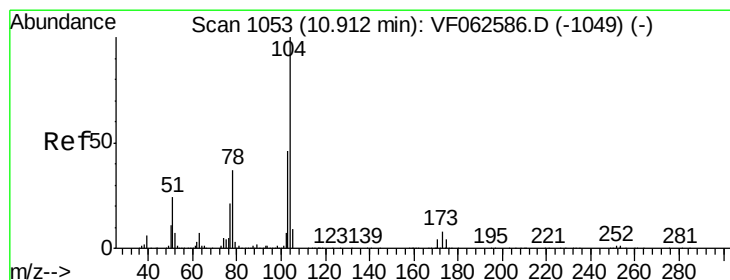
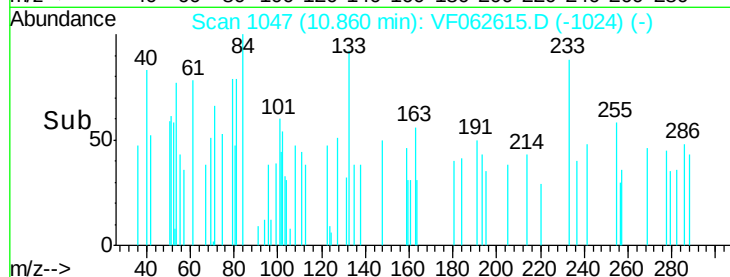
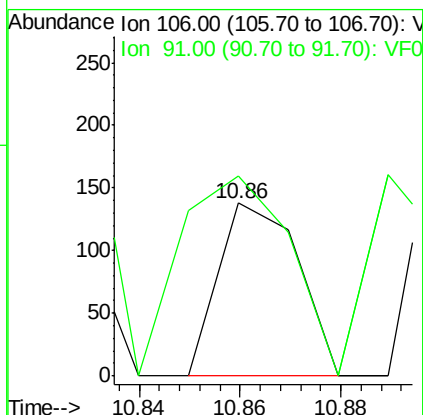
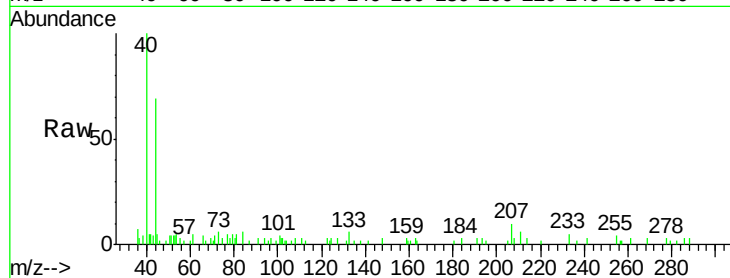




#69  
o-Xylene  
Concen: 205.437 ug/l  
RT: 10.86 min Scan# 1047  
Delta R.T. 0.03 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

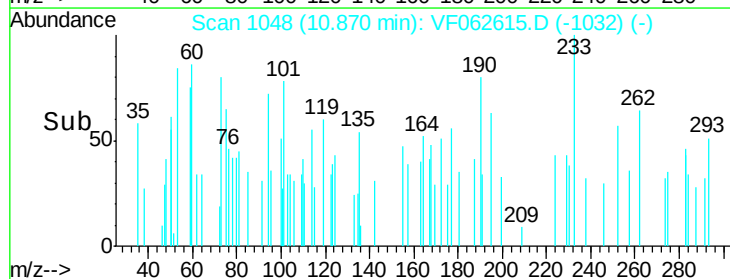
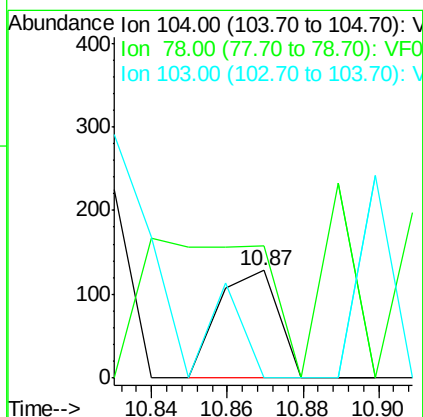
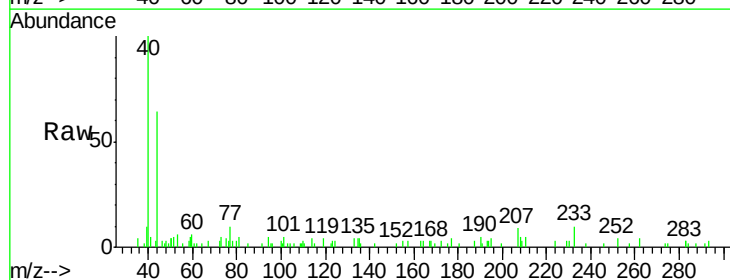
Instrument :  
MSVOA\_F  
ClientSampled :  
10-BRE

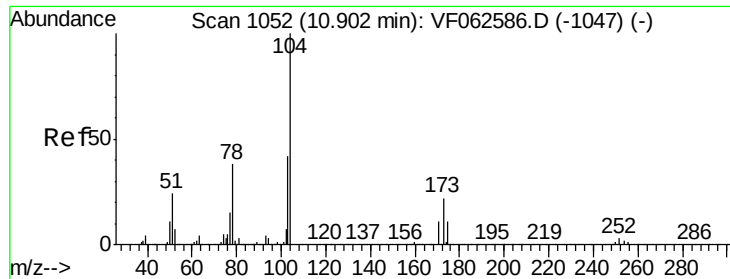
Tot Ion:106 Resp: 151  
Ion Ratio Lower Upper  
106 100  
91 115.9 102.0 305.9



#70  
Styrene  
Concen: 125.351 ug/l  
RT: 10.87 min Scan# 1048  
Delta R.T. -0.04 min  
Lab File: VF062615.D  
Acq: 15 May 2019 18:13

Tgt Ion:104 Resp: 140  
Ion Ratio Lower Upper  
104 100  
78 123.4 30.2 45.2#  
103 0.0 37.0 55.6#





#71

Bromoform

Concen: 329.954 ug/l

RT: 10.89 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

10-BRE

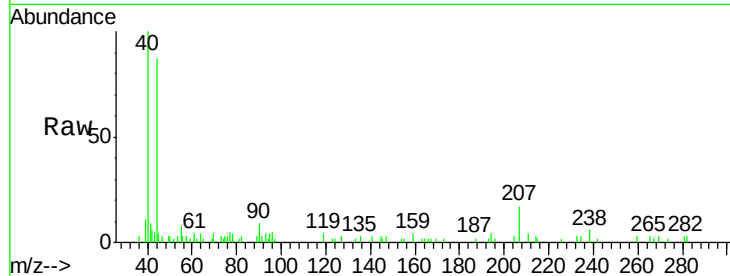
Tot Ion:173 Resp: 71

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

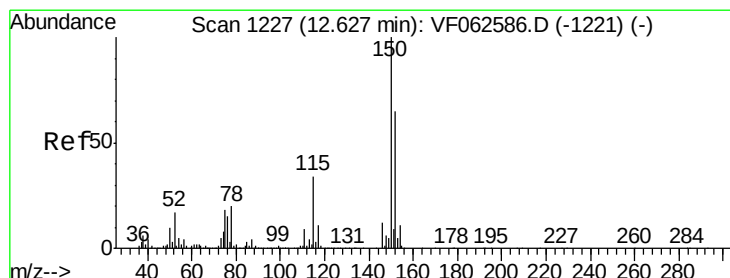
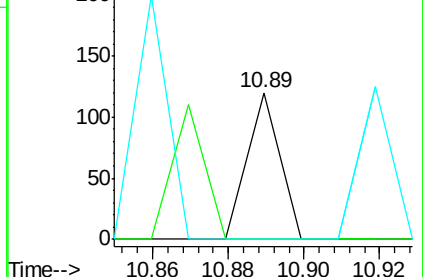
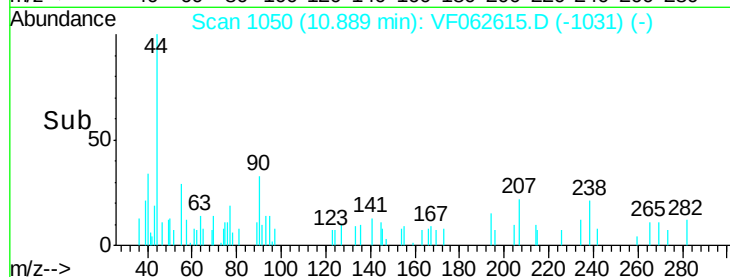
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

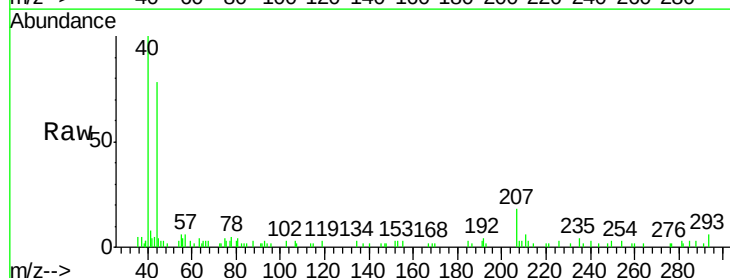
Tgt Ion:152 Resp: 96

Ion Ratio Lower Upper

152 100

115 65.4 26.2 78.6

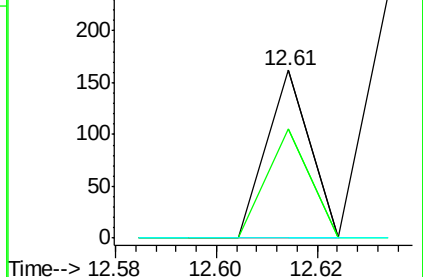
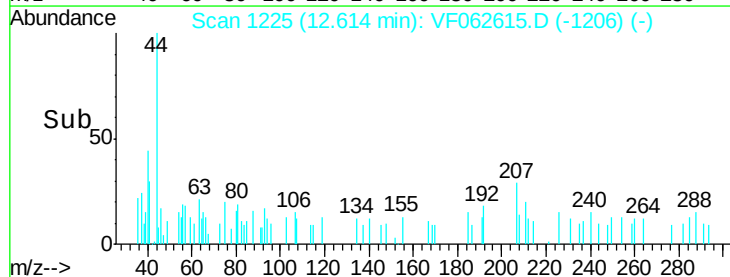
150 0.0 0.0 316.0



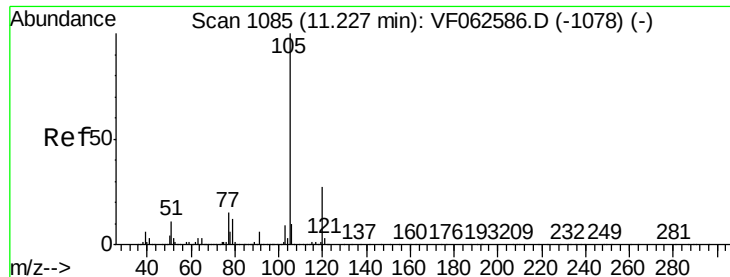
Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V







#73

Isopropylbenzene

Concen: 10.690 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

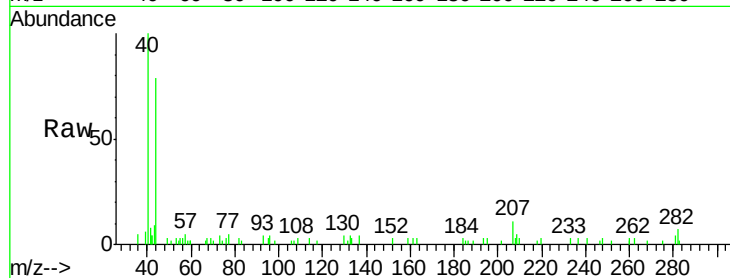
10-BRE

Tot Ion:105 Resp: 69

Ion Ratio Lower Upper

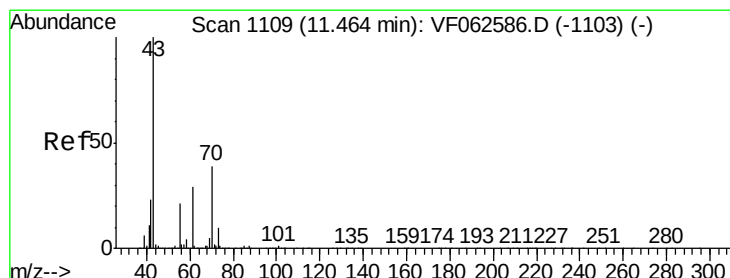
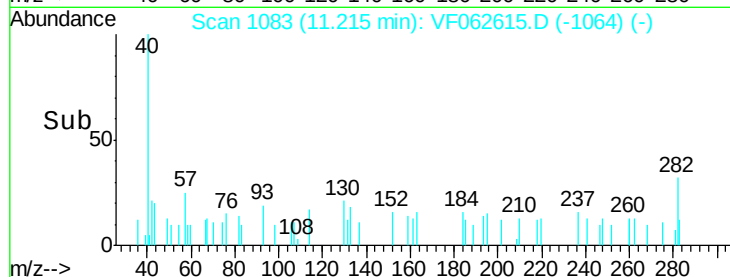
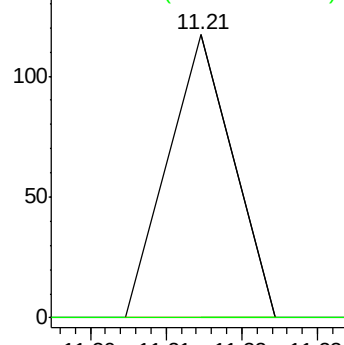
105 100

120 0.0 13.5 40.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 297.328 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Tgt Ion: 43 Resp: 466

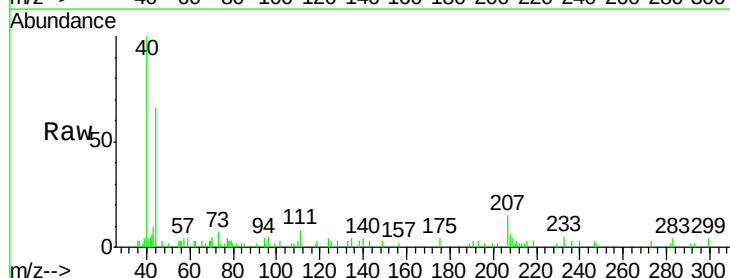
Ion Ratio Lower Upper

43 100

70 82.6 31.0 46.4#

55 56.1 16.7 25.1#

61 28.7 23.4 35.2

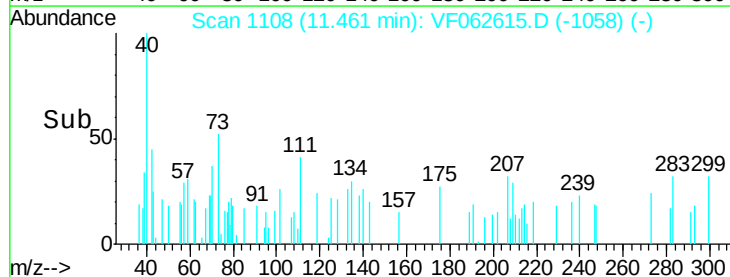
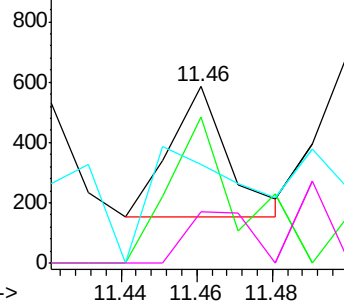


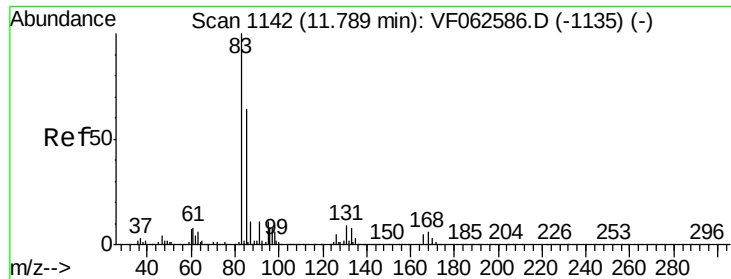
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 284.342 ug/l

RT: 11.77 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

10-BRE

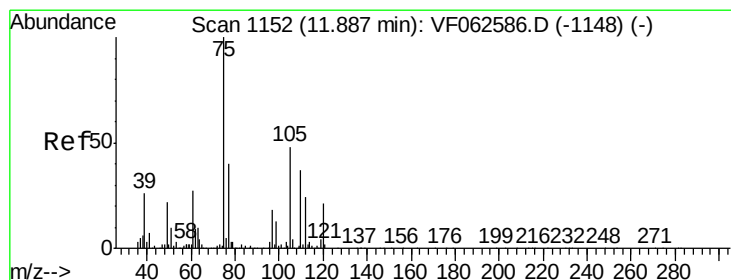
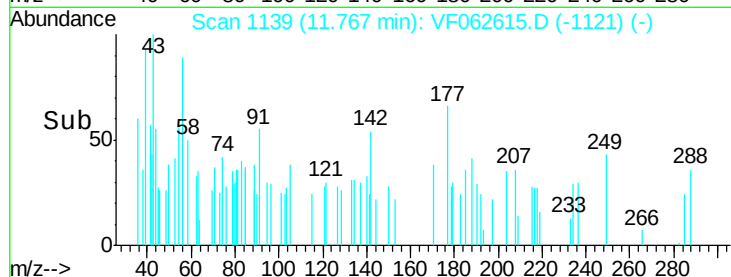
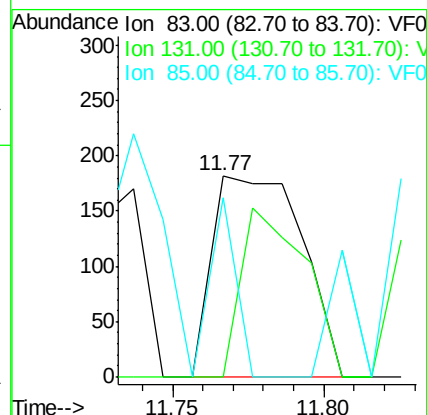
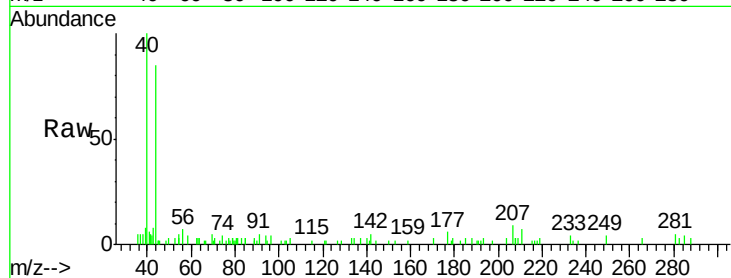
Tot Ion: 83 Resp: 376

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

85 89.0 32.1 96.3



#76

1,2,3-Trichloropropane

Concen: 266.591 ug/l

RT: 11.74 min Scan# 1136

Delta R.T. -0.15 min

Lab File: VF062615.D

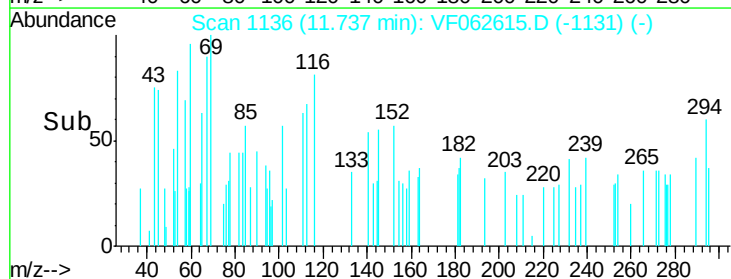
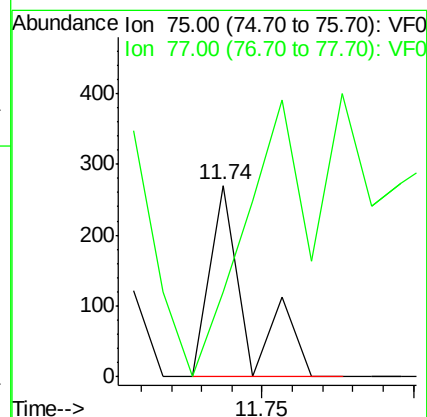
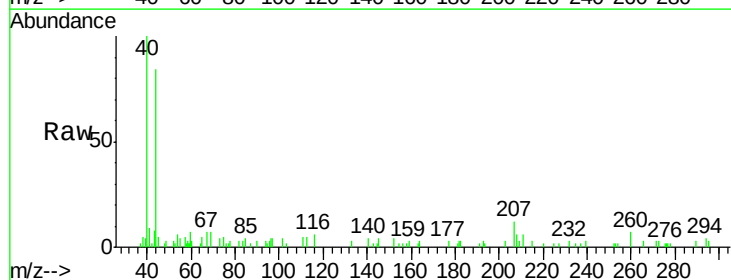
Acq: 15 May 2019 18:13

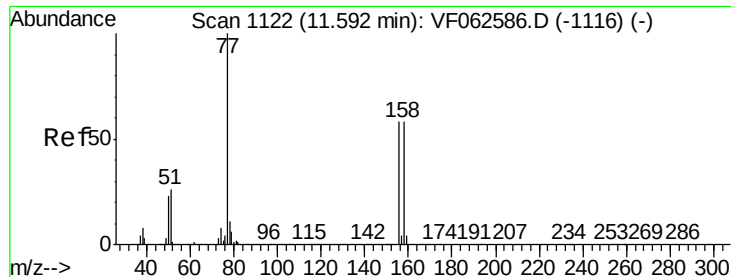
Tgt Ion: 75 Resp: 226

Ion Ratio Lower Upper

75 100

77 44.4 20.4 61.3





#77

Bromobenzene

Concen: 46.618 ug/l

RT: 11.74 min Scan# 1136

Delta R.T. 0.15 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampleId :

10-BRE

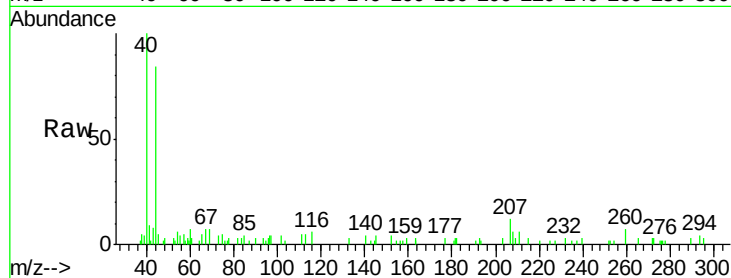
Tot Ion:156 Resp: 68

Ion Ratio Lower Upper

156 100

77 104.3 86.5 259.5

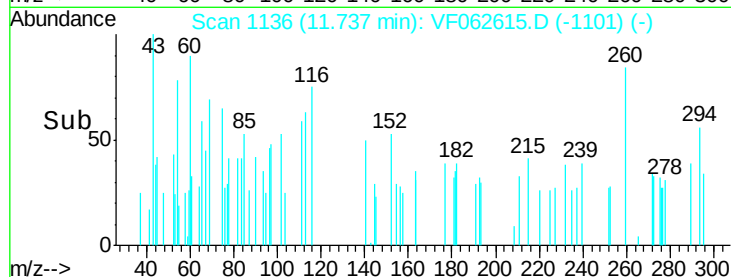
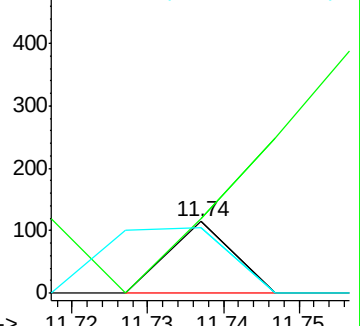
158 90.4 50.3 150.9



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 34.907 ug/l

RT: 11.69 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF062615.D

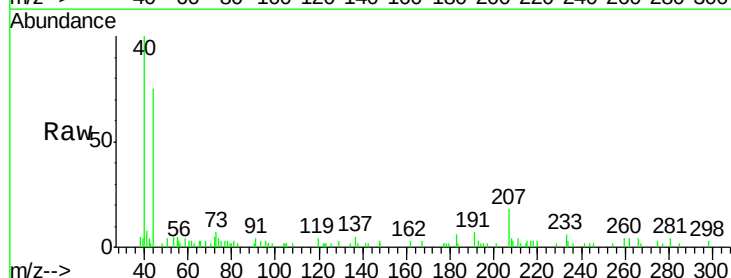
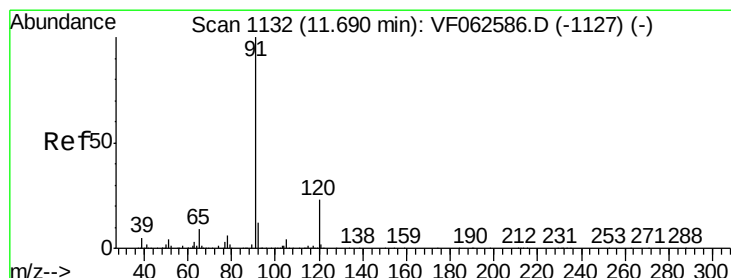
Acq: 15 May 2019 18:13

Tgt Ion: 91 Resp: 268

Ion Ratio Lower Upper

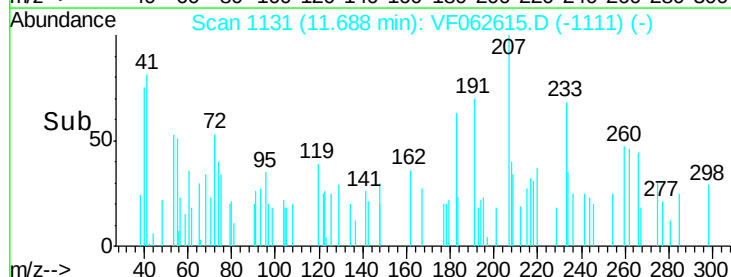
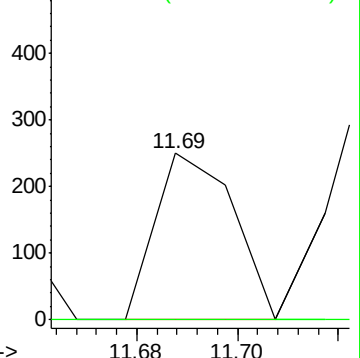
91 100

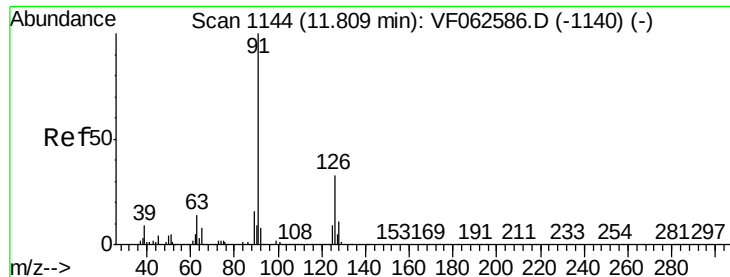
120 0.0 11.7 35.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 28.321 ug/l

RT: 11.81 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

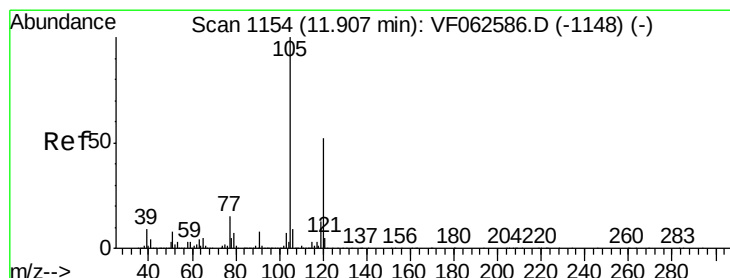
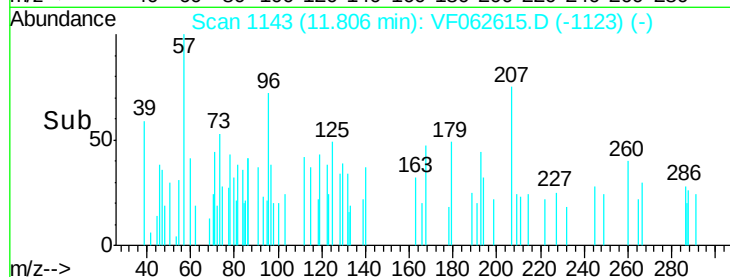
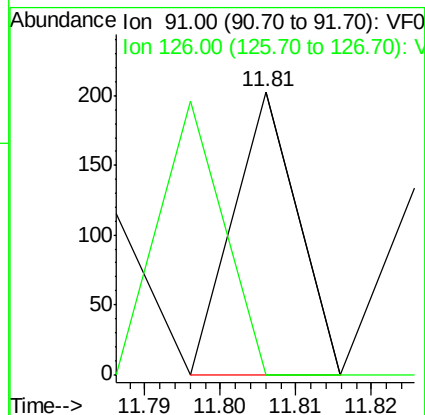
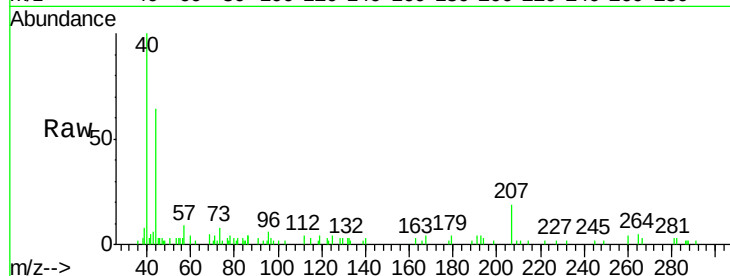
10-BRE

Tot Ion: 91 Resp: 120

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.8#



#80

1,3,5-Trimethylbenzene

Concen: 23.354 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. 0.09 min

Lab File: VF062615.D

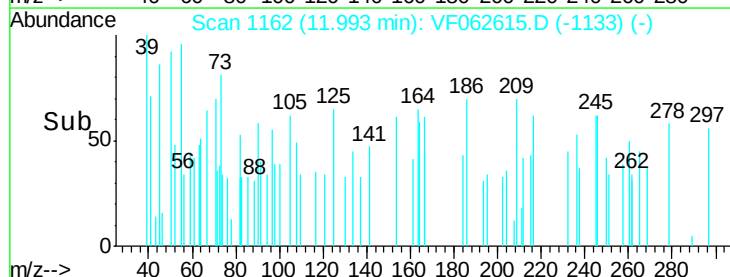
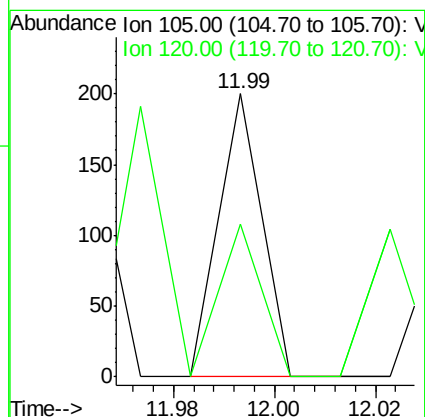
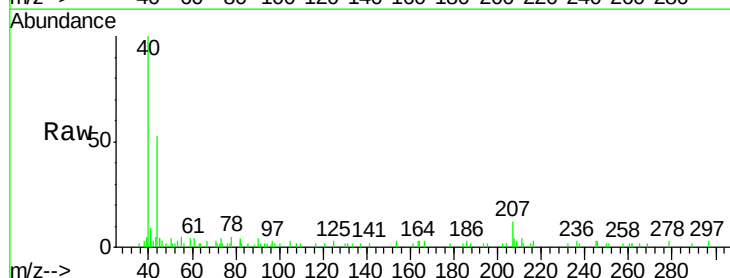
Acq: 15 May 2019 18:13

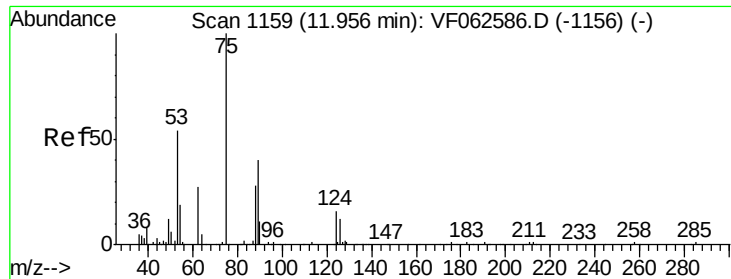
Tgt Ion: 105 Resp: 118

Ion Ratio Lower Upper

105 100

120 54.0 25.9 77.6





#81

trans-1,4-Dichloro-2-butene

Concen: 595.021 ug/l

RT: 11.93 min Scan# 1156

Delta R.T. -0.02 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

10-BRE

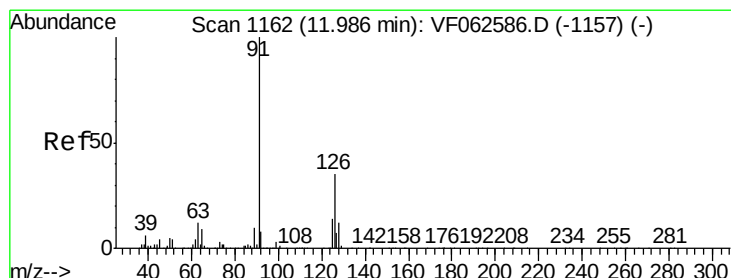
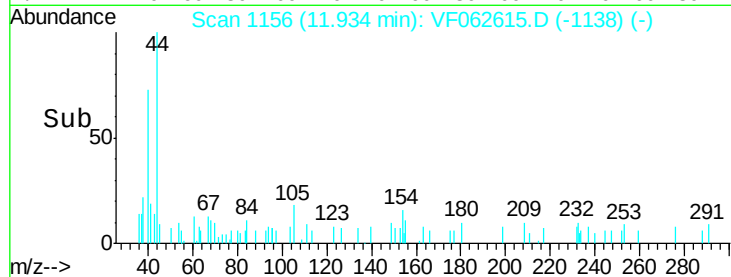
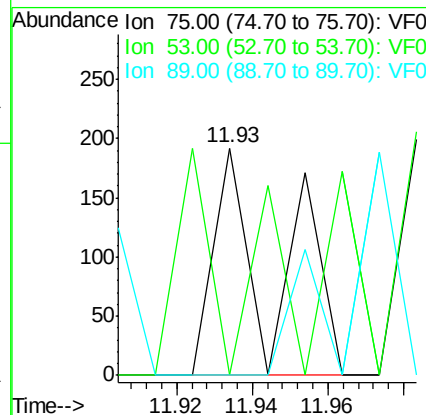
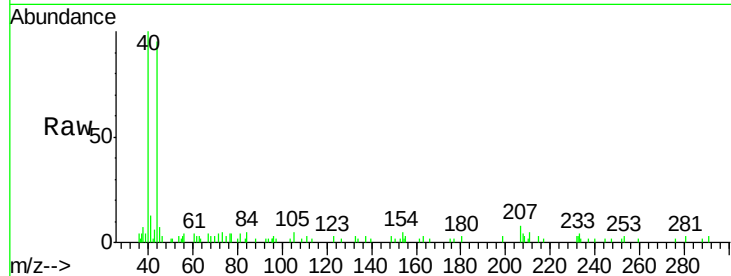
Tot Ion: 75 Resp: 215

Ion Ratio Lower Upper

75 100

53 0.0 46.6 70.0#

89 0.0 33.8 50.8#



#82

4-Chlorotoluene

Concen: 99.204 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.03 min

Lab File: VF062615.D

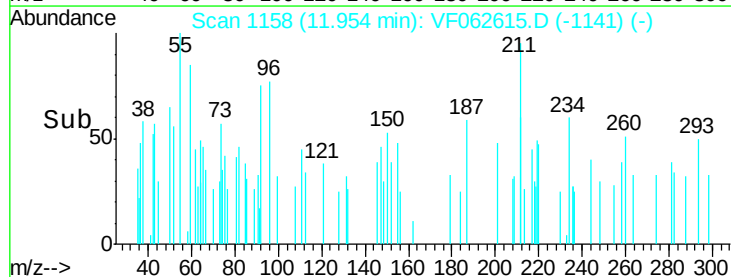
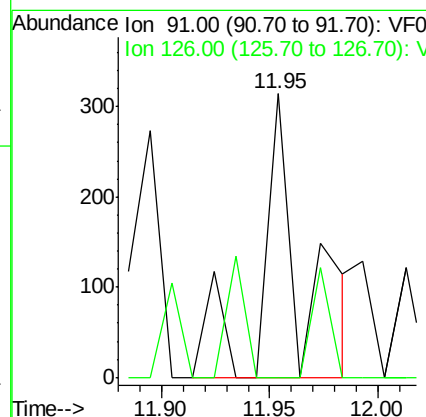
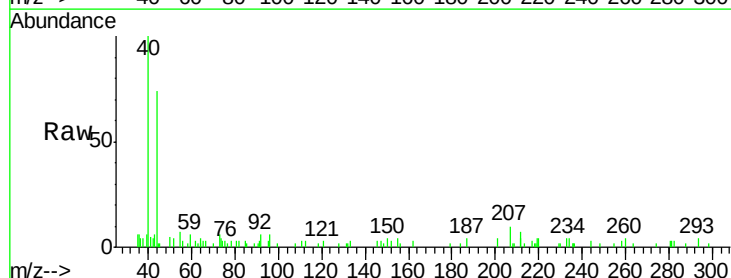
Acq: 15 May 2019 18:13

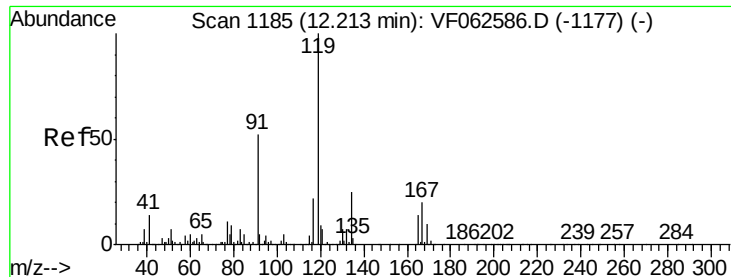
Tgt Ion: 91 Resp: 411

Ion Ratio Lower Upper

91 100

126 0.0 17.5 52.5#

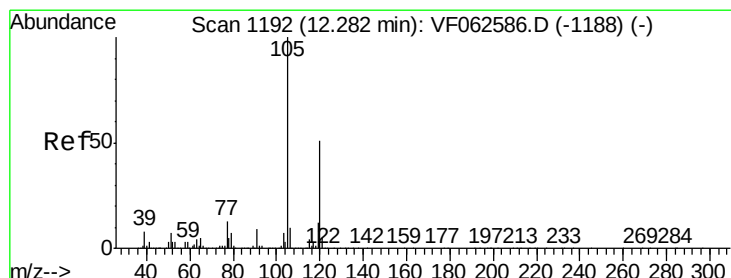
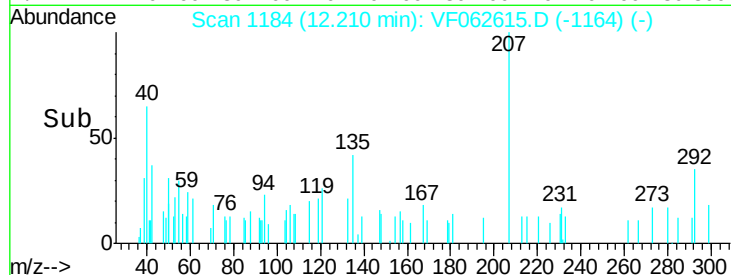
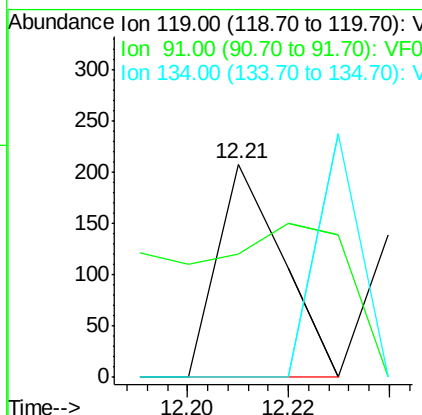
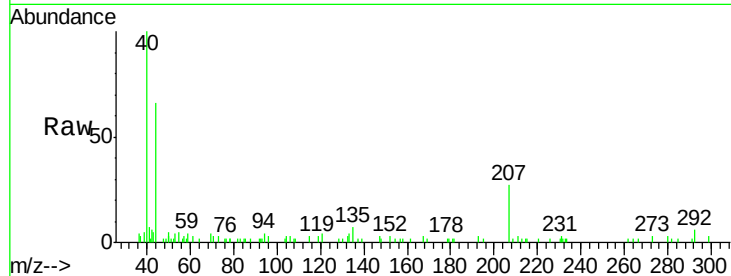




#83  
 tert-Butylbenzene  
 Concen: 35.192 ug/l  
 RT: 12.21 min Scan# 1184  
 Delta R.T. -0.00 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

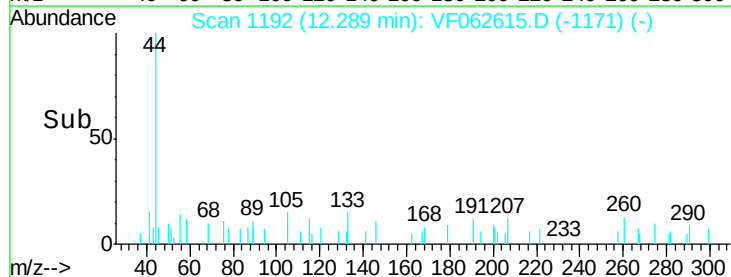
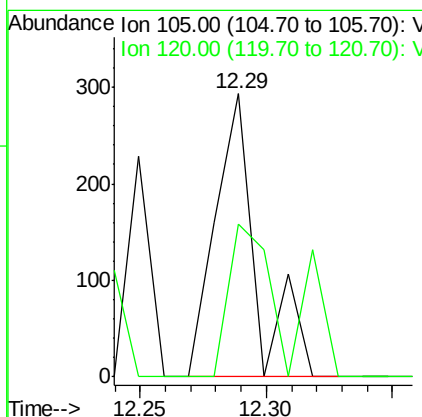
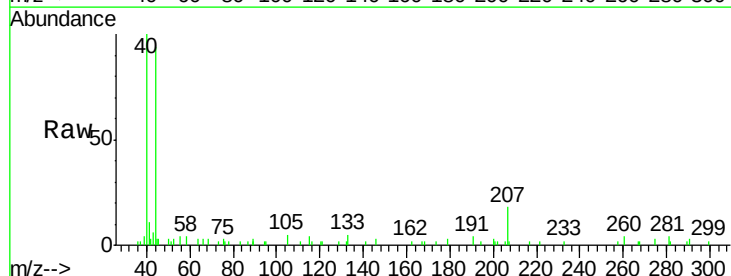
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 10-BRE

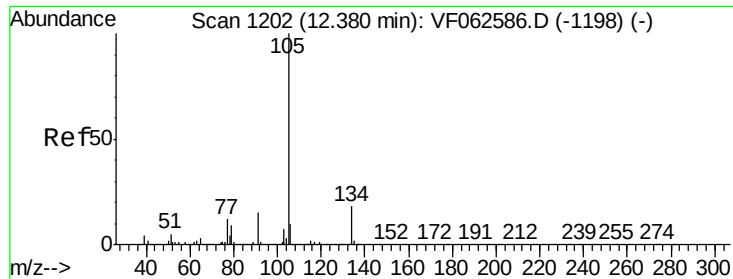
Tot Ion:119 Resp: 186  
 Ion Ratio Lower Upper  
 119 100  
 91 57.7 26.0 78.0  
 134 0.0 12.6 37.8#



#84  
 1,2,4-Trimethylbenzene  
 Concen: 66.489 ug/l  
 RT: 12.29 min Scan# 1192  
 Delta R.T. 0.01 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

Tgt Ion:105 Resp: 330  
 Ion Ratio Lower Upper  
 105 100  
 120 53.9 25.4 76.0





#85

sec-Butylbenzene

Concen: 25.921 ug/l

RT: 12.37 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampleId :

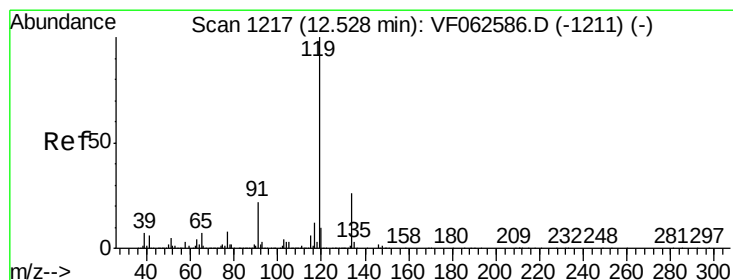
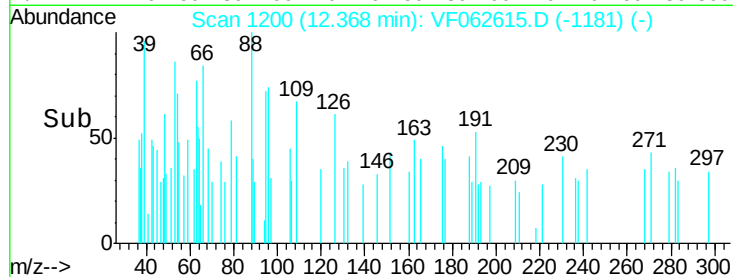
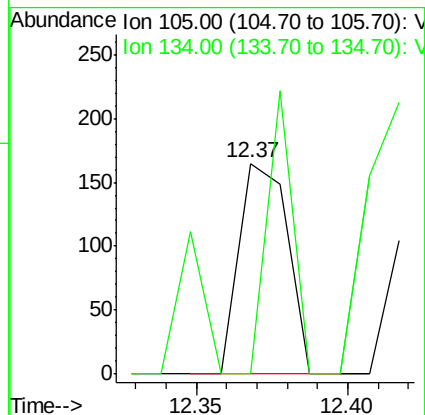
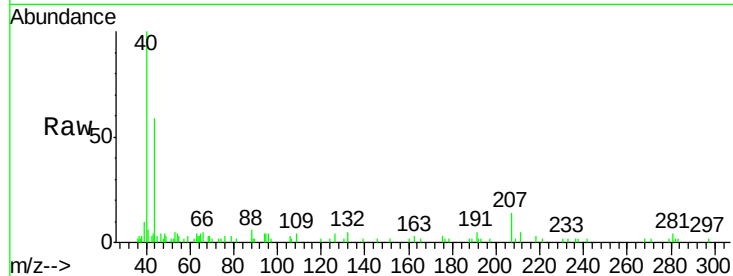
10-BRE

Tot Ion:105 Resp: 186

Ion Ratio Lower Upper

105 100

134 0.0 9.3 27.7#



#86

p-Isopropyltoluene

Concen: 81.434 ug/l

RT: 12.53 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

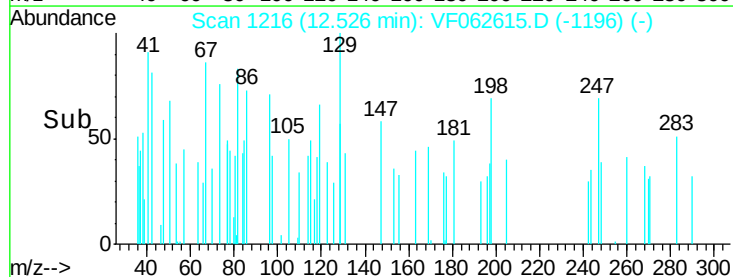
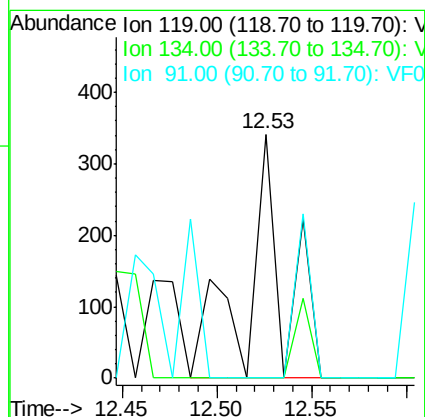
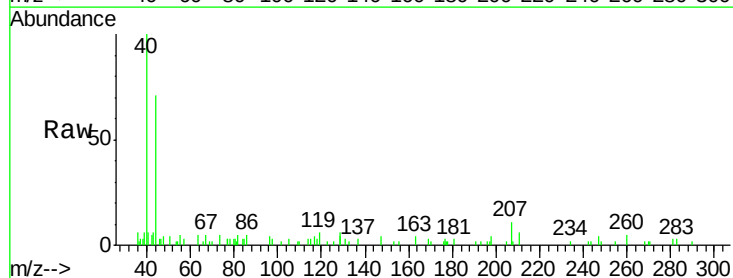
Tgt Ion:119 Resp: 481

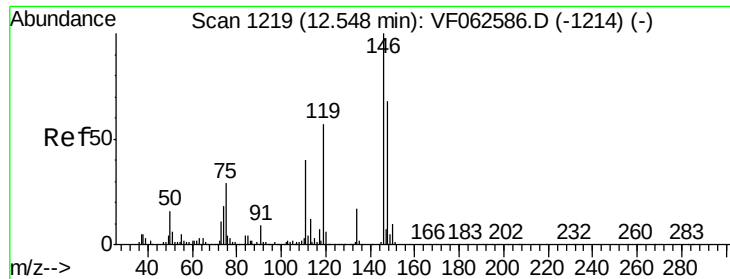
Ion Ratio Lower Upper

119 100

134 0.0 13.0 39.0#

91 0.0 10.9 32.9#

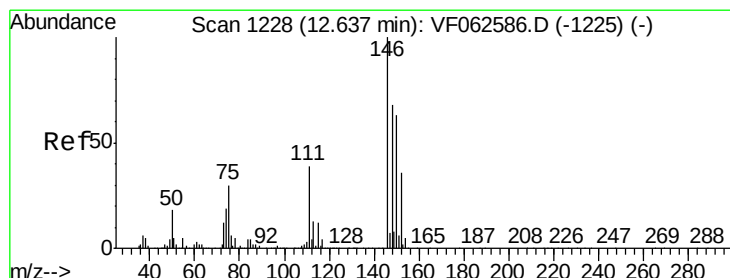
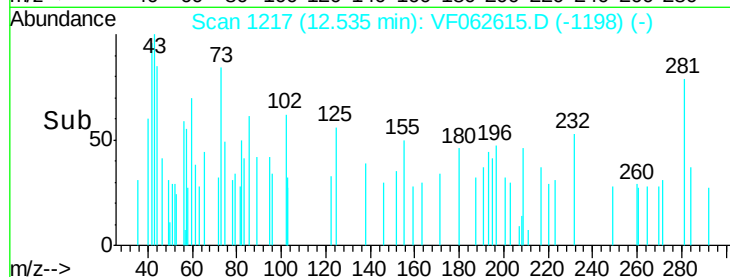
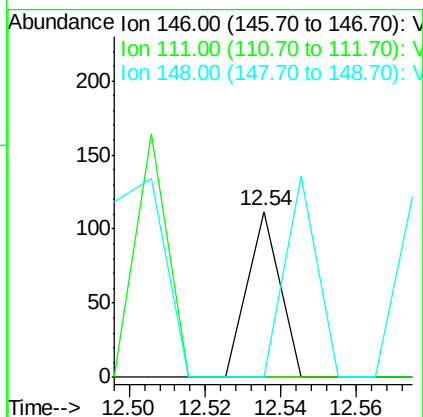
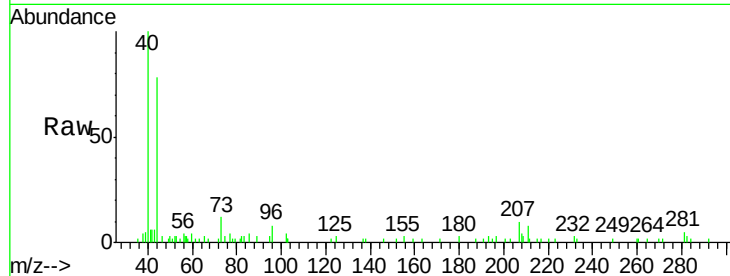




#87  
 1,3-Dichlorobenzene  
 Concen: 23.134 ug/l  
 RT: 12.54 min Scan# 1217  
 Delta R.T. -0.01 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

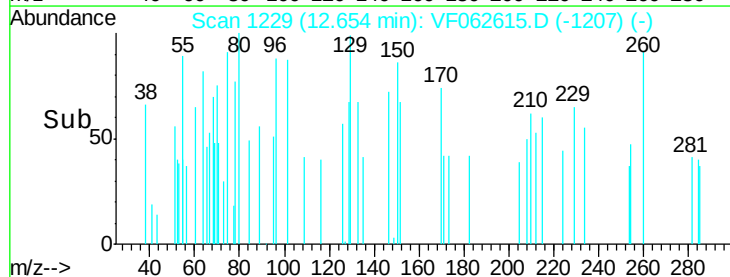
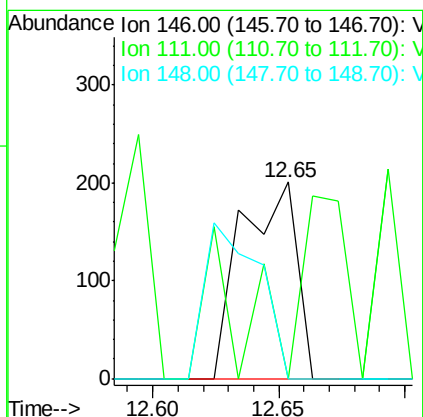
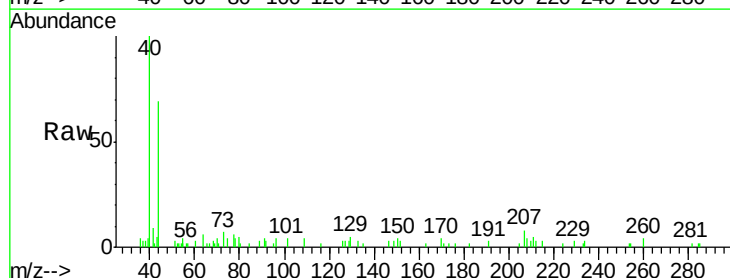
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 10-BRE

Tot Ion:146 Resp: 66  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 20.1 60.2#  
 148 0.0 34.0 101.8#

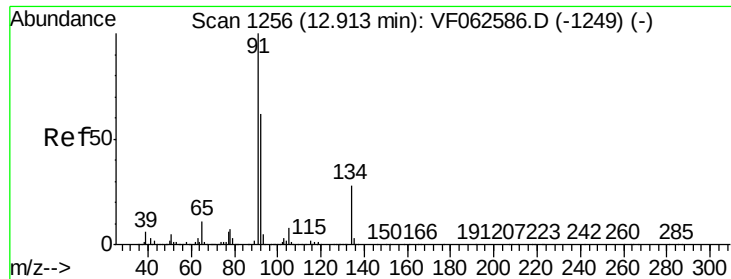


#88  
 1,4-Dichlorobenzene  
 Concen: 115.084 ug/l  
 RT: 12.65 min Scan# 1229  
 Delta R.T. 0.02 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

Tgt Ion:146 Resp: 308  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 19.4 58.1#  
 148 0.0 34.2 102.5#







#89

n-Butylbenzene

Concen: 64.366 ug/l

RT: 12.90 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

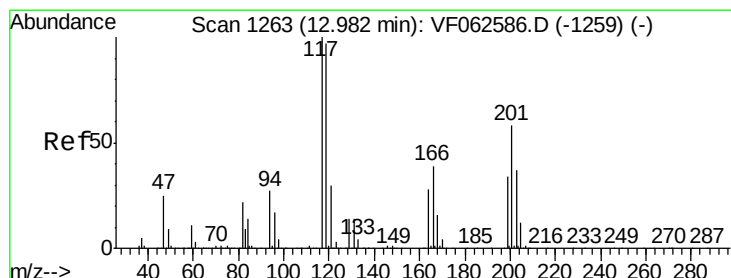
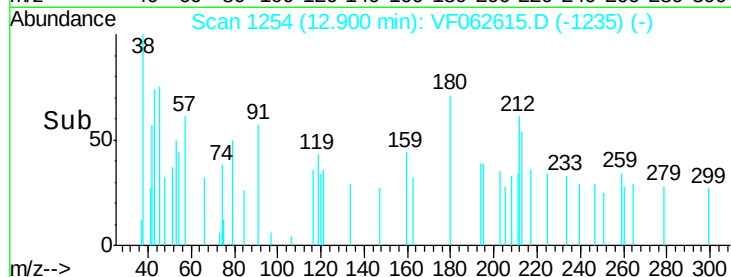
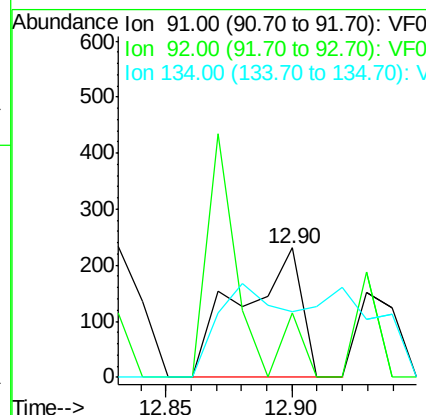
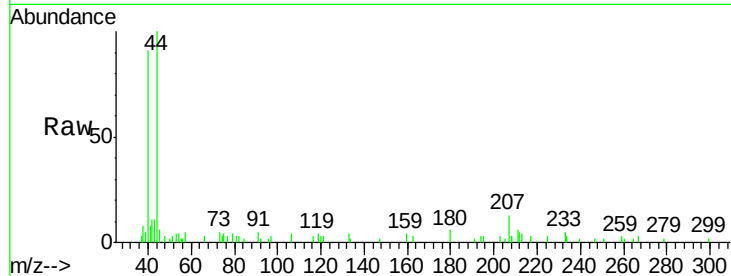
Instrument :

MSVOA\_F

ClientSampled :

10-BRE

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 91    | Resp: | 387   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 50.2  | 30.9  | 92.8  |
| 134      | 50.6  | 13.9  | 41.6# |



#90

Hexachloroethane

Concen: 93.192 ug/l

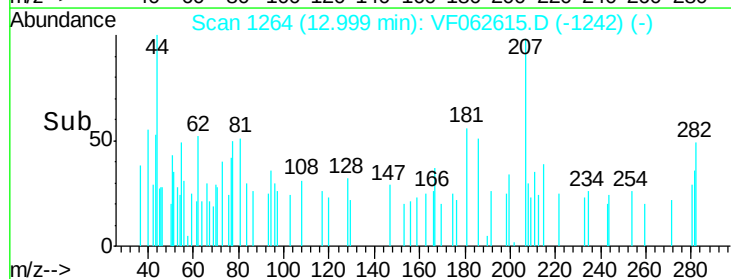
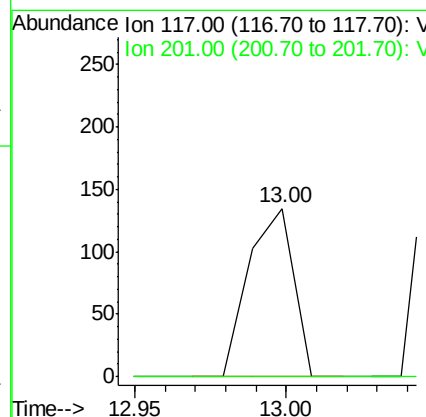
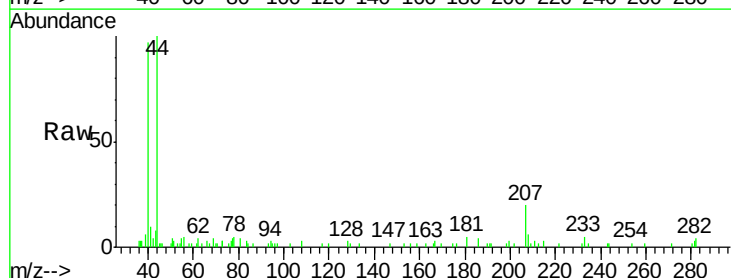
RT: 13.00 min Scan# 1264

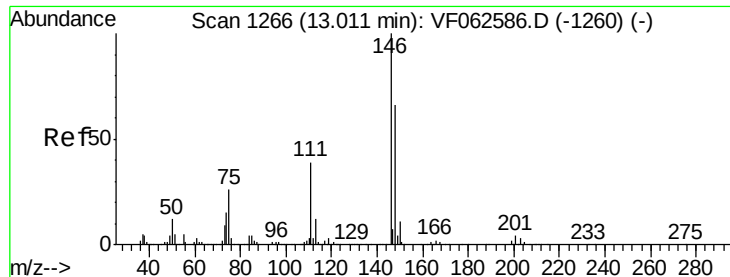
Delta R.T. 0.02 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 141   |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 201      | 96.3  | 29.7  | 89.1# |





#91

1,2-Dichlorobenzene

Concen: 59.660 ug/l

RT: 13.02 min Scan# 1266

Delta R.T. 0.01 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

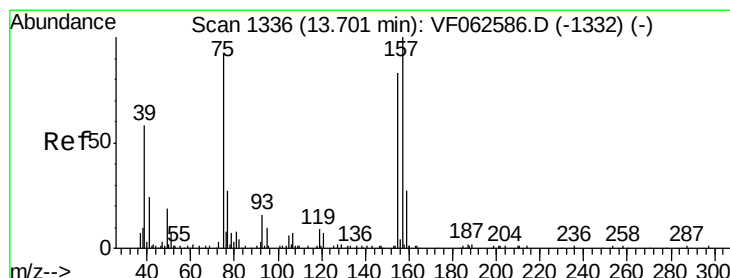
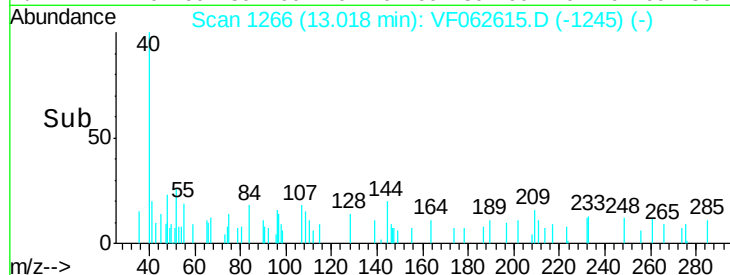
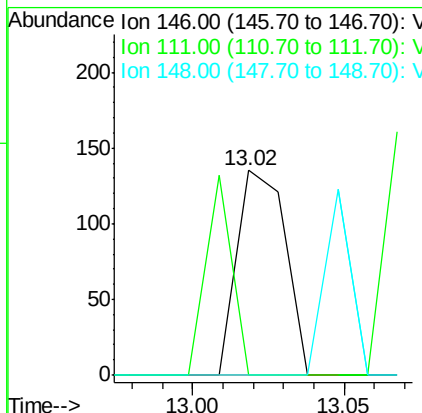
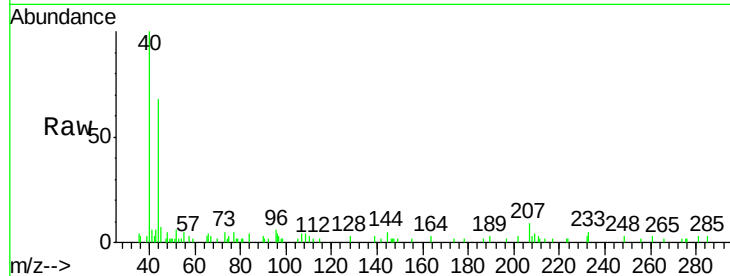
Instrument :

MSVOA\_F

ClientSampleId :

10-BRE

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 151   |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 0.0   | 19.4  | 58.2# |
| 148      | 0.0   | 33.1  | 99.5# |



#92

1,2-Dibromo-3-Chloropropane

Concen: 2339.467 ug/l

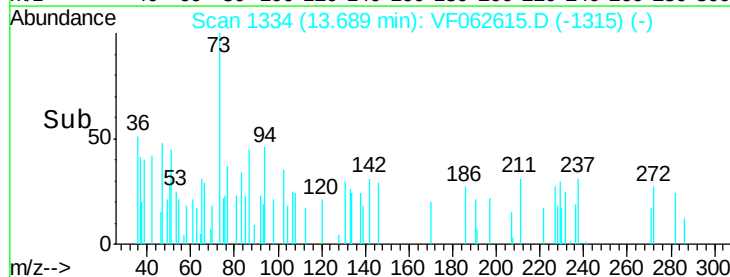
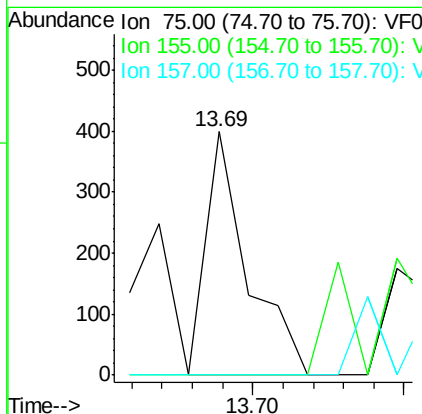
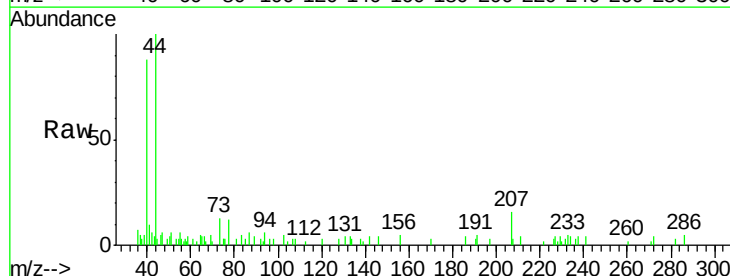
RT: 13.69 min Scan# 1334

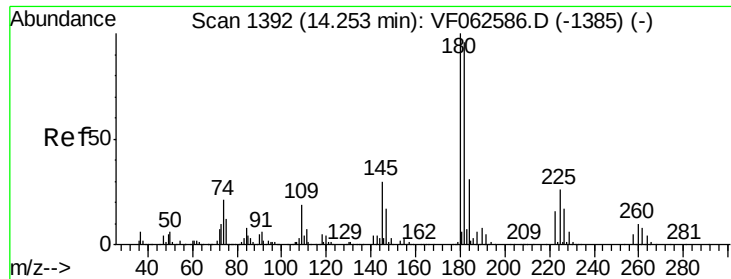
Delta R.T. -0.01 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 380    |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 0.0   | 44.8  | 134.4# |
| 157      | 0.0   | 54.1  | 162.3# |

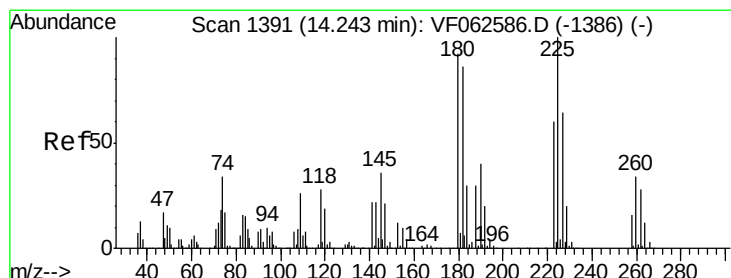
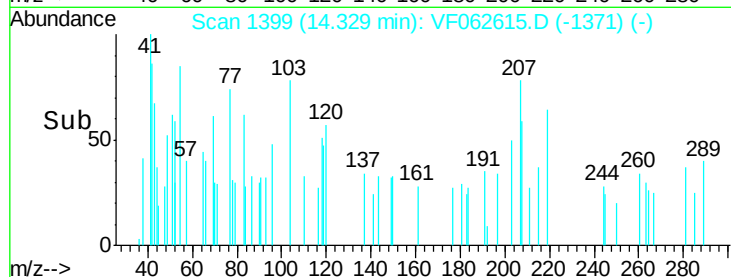
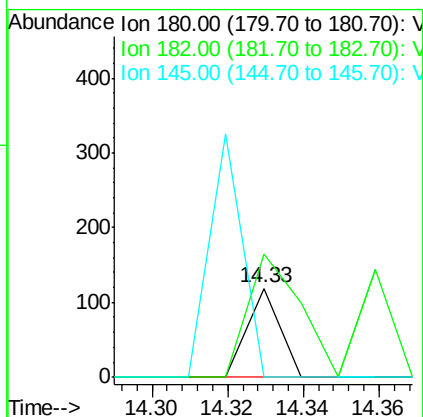
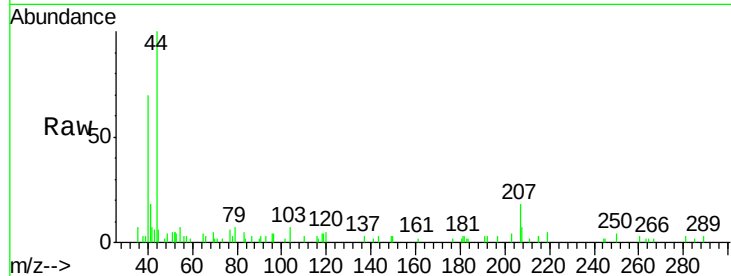




#93  
 1,2,4-Trichlorobenzene  
 Concen: 39.772 ug/l  
 RT: 14.33 min Scan# 1399  
 Delta R.T. 0.08 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

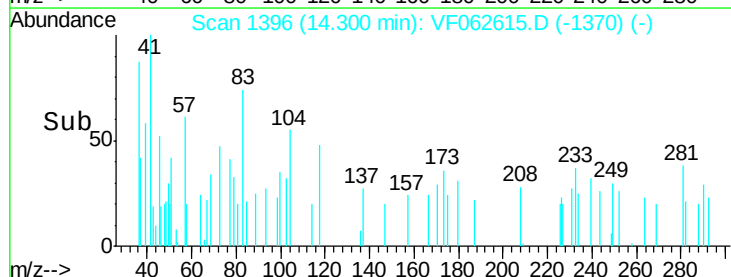
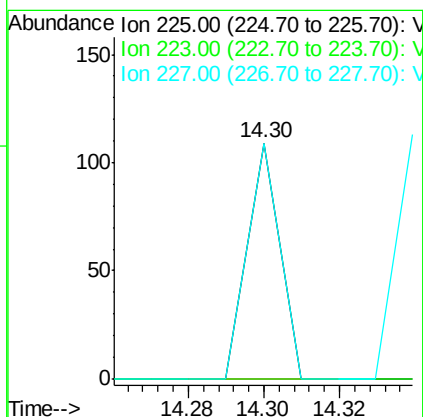
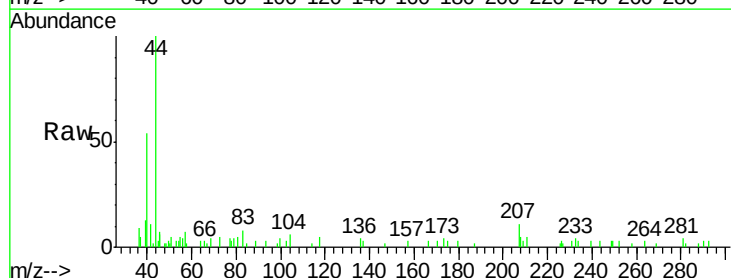
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 10-BRE

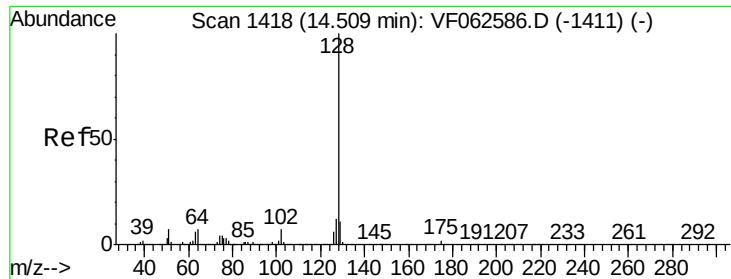
Tot Ion:180 Resp: 70  
 Ion Ratio Lower Upper  
 180 100  
 182 137.8 47.9 143.8  
 145 0.0 14.8 44.4#



#94  
 Hexachlorobutadiene  
 Concen: 50.058 ug/l  
 RT: 14.30 min Scan# 1396  
 Delta R.T. 0.06 min  
 Lab File: VF062615.D  
 Acq: 15 May 2019 18:13

Tgt Ion:225 Resp: 64  
 Ion Ratio Lower Upper  
 225 100  
 223 0.0 29.9 89.7#  
 227 100.0 31.9 95.9#





#95

Naphthalene

Concen: 34.559 ug/l

RT: 14.53 min Scan# 1419

Delta R.T. 0.02 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

Instrument :

MSVOA\_F

ClientSampled :

10-BRE

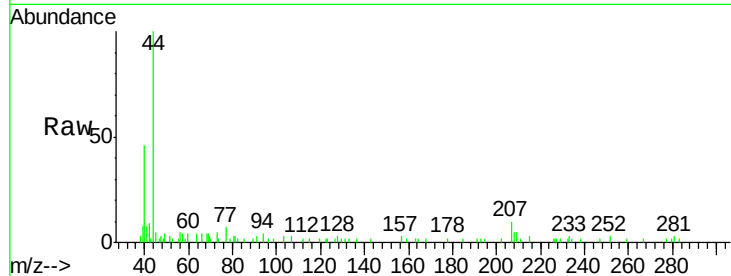
Tot Ion:128 Resp: 99

Ion Ratio Lower Upper

128 100

127 92.2 9.5 14.3#

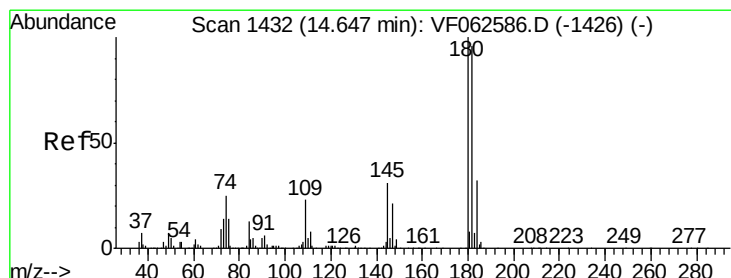
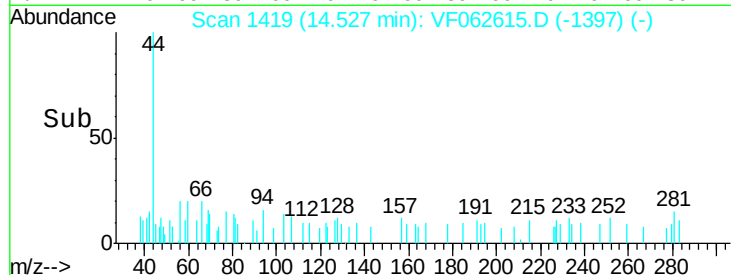
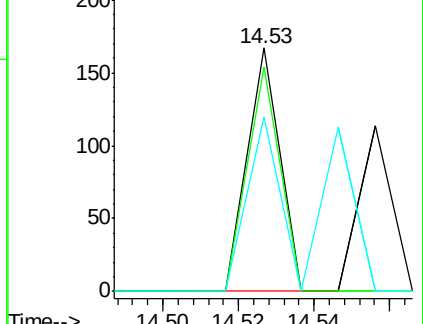
129 71.9 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 98.605 ug/l

RT: 14.65 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VF062615.D

Acq: 15 May 2019 18:13

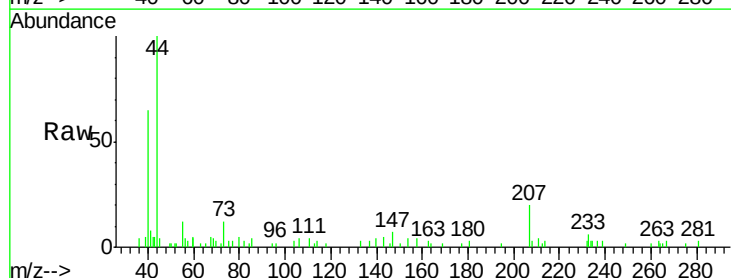
Tgt Ion:180 Resp: 161

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.3#

145 0.0 15.6 46.7#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

