

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051519\  
 Data File : VF062616.D  
 Acq On : 15 May 2019 18:41  
 Operator : FY/SY  
 Sample : K2823-04  
 Misc : 6.06g/5mL/MSVOA F/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 11-B2

Quant Time: May 16 03:31:03 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  | 80       | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.93  | 114  | 341      | 50.00 | ug/l  | 0.12     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 509      | 50.00 | ug/l  | 0.18     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 80       | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc    | Units    | Dev(Min) |
|-----------------------------|-------|------|----------|---------|----------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.09  | 65   | 1021     | 1689.38 | ug/l     | 0.03     |
| Spiked Amount               |       |      |          | 50.000  |          |          |
|                             |       |      | Recovery | =       | 3378.76% |          |
| 35) Dibromofluoromethane    | 4.45  | 113  | 208      | 81.95   | ug/l     | 0.11     |
| Spiked Amount               |       |      |          | 50.000  |          |          |
|                             |       |      | Recovery | =       | 163.90%  |          |
| 50) Toluene-d8              | 7.90  | 98   | 319      | 53.34   | ug/l     | 0.16     |
| Spiked Amount               |       |      |          | 50.000  |          |          |
|                             |       |      | Recovery | =       | 106.68%  |          |
| 62) 4-Bromofluorobenzene    | 11.75 | 95   | 254      | 121.61  | ug/l     | 0.23     |
| Spiked Amount               |       |      |          | 50.000  |          |          |
|                             |       |      | Recovery | =       | 243.22%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.02 | 85   | 472      | 740.692   | ug/l   | 86     |
| 3) Chloromethane              | 1.18 | 50   | 402      | 440.628   | ug/l # | 17     |
| 4) Vinyl Chloride             | 1.18 | 62   | 539      | 593.607   | ug/l # | 42     |
| 5) Bromomethane               | 1.42 | 94   | 359      | Below Cal |        | 95     |
| 6) Chloroethane               | 1.44 | 64   | 151      | 437.904   | ug/l # | 1      |
| 7) Trichlorofluoromethane     | 1.69 | 101  | 166      | 133.428   | ug/l   | 98     |
| 8) Diethyl Ether              | 1.76 | 74   | 189      | 677.701   | ug/l   | 56     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.92 | 101  | 347      | 408.898   | ug/l # | 1      |
| 10) Methyl Iodide             | 1.98 | 142  | 173      | 114.463   | ug/l # | 1      |
| 11) Tert butyl alcohol        | 2.72 | 59   | 256      | 7035.484  | ug/l # | 9      |
| 12) 1,1-Dichloroethene        | 1.89 | 96   | 833      | 1145.878  | ug/l # | 3      |
| 13) Acrolein                  | 2.10 | 56   | 688      | 28530.142 | ug/l   | 92     |
| 14) Allyl chloride            | 2.20 | 41   | 1084     | 1457.293  | ug/l # | 74     |
| 15) Acrylonitrile             | 3.12 | 53   | 586      | 4502.065  | ug/l # | 67     |
| 16) Acetone                   | 2.26 | 43   | 863      | 7037.183  | ug/l   | 89     |
| 17) Carbon Disulfide          | 1.93 | 76   | 86       | 58.024    | ug/l # | 1      |
| 18) Methyl Acetate            | 2.51 | 43   | 435      | 1913.712  | ug/l   | 90     |
| 19) Methyl tert-butyl Ether   | 2.49 | 73   | 640      | 494.462   | ug/l   | 93     |
| 20) Methylene Chloride        | 2.27 | 84   | 487      | Below Cal | #      | 8      |
| 21) trans-1,2-Dichloroethene  | 2.45 | 96   | 296      | 404.031   | ug/l # | 26     |
| 22) Diisopropyl ether         | 2.96 | 45   | 840      | 485.684   | ug/l # | 69     |
| 23) Vinyl Acetate             | 3.39 | 43   | 1235     | 1305.510  | ug/l # | 15     |
| 24) 1,1-Dichloroethane        | 2.99 | 63   | 494      | 375.212   | ug/l # | 86     |
| 25) 2-Butanone                | 4.47 | 43   | 1645     | 5933.331  | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 3.80 | 77   | 426      | 599.531   | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 3.65 | 96   | 719      | 694.641   | ug/l   | 20     |
| 28) Bromochloromethane        | 3.93 | 49   | 270      | 364.831   | ug/l # | 76     |
| 29) Tetrahydrofuran           | 4.52 | 42   | 762      | 6494.873  | ug/l   | 96     |
| 30) Chloroform                | 4.07 | 83   | 228      | 144.320   | ug/l   | 100    |
| 31) Cyclohexane               | 3.91 | 56   | 209      | 152.310   | ug/l # | 19     |
| 32) 1,1,1-Trichloroethane     | 4.28 | 97   | 147      | 138.044   | ug/l # | 64     |
| 36) 1,1-Dichloropropene       | 4.60 | 75   | 724      | 245.368   | ug/l # | 55     |
| 37) Ethyl Acetate             | 4.47 | 43   | 1645     | 1356.655  | ug/l # | 39     |
| 38) Carbon Tetrachloride      | 4.31 | 117  | 138      | 57.013    | ug/l # | 19     |

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 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 11-B2

Quant Time: May 16 03:31:03 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          | 5.65  | 83   | 328      | 94.942   | ug/l   | 98       |
| 40) Benzene                    | 4.95  | 78   | 615      | 73.263   | ug/l # | 56       |
| 41) Methacrylonitrile          | 5.09  | 41   | 561      | 817.020  | ug/l # | 42       |
| 42) 1,2-Dichloroethane         | 5.27  | 62   | 271      | 152.134  | ug/l   | 71       |
| 43) Isopropyl Acetate          | 7.25  | 43   | 1845     | 1285.854 | ug/l # | 40       |
| 44) Trichloroethene            | 5.86  | 130  | 62       | 27.349   | ug/l   | 45       |
| 45) 1,2-Dichloropropane        | 6.60  | 63   | 146      | 69.098   | ug/l # | 42       |
| 46) Dibromomethane             | 6.43  | 93   | 298      | 252.260  | ug/l # | 5        |
| 47) Bromodichloromethane       | 6.72  | 83   | 896      | 352.820  | ug/l # | 15       |
| 48) Methyl methacrylate        | 7.01  | 41   | 2511     | 3197.134 | ug/l # | 58       |
| 49) 1,4-Dioxane                | 7.02  | 88   | 72       | 6956.745 | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone       | 8.56  | 43   | 479      | 455.603  | ug/l   | 97       |
| 52) Toluene                    | 7.96  | 92   | 98       | 23.257   | ug/l # | 30       |
| 53) t-1,3-Dichloropropene      | 8.59  | 75   | 254      | 126.603  | ug/l # | 1        |
| 54) cis-1,3-Dichloropropene    | 7.67  | 75   | 95       | 33.508   | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane      | 8.81  | 97   | 468      | 370.934  | ug/l # | 1        |
| 56) Ethyl methacrylate         | 8.99  | 69   | 571      | 412.927  | ug/l # | 1        |
| 57) 1,3-Dichloropropane        | 9.19  | 76   | 176      | 84.518   | ug/l # | 42       |
| 58) 2-Chloroethyl Vinyl ether  | 7.65  | 63   | 302      | 697.997  | ug/l # | 53       |
| 59) 2-Hexanone                 | 9.95  | 43   | 905      | 1303.355 | ug/l   | 79       |
| 60) Dibromochloromethane       | 8.97  | 129  | 71       | 44.292   | ug/l   | 79       |
| 61) 1,2-Dibromoethane          | 9.35  | 107  | 64       | 50.577   | ug/l # | 3        |
| 64) Tetrachloroethene          | 8.33  | 164  | 290      | 86.221   | ug/l # | 1        |
| 65) Chlorobenzene              | 9.97  | 112  | 174      | 19.663   | ug/l # | 1        |
| 66) 1,1,1,2-Tetrachloroethane  | 10.07 | 131  | 153      | 42.095   | ug/l # | 25       |
| 67) Ethyl Benzene              | 10.05 | 91   | 309      | 19.654   | ug/l # | 44       |
| 68) m/p-Xylenes                | 10.30 | 106  | 91       | 16.330   | ug/l # | 1        |
| 69) o-Xylene                   | 10.92 | 106  | 195      | 33.358   | ug/l   | 44       |
| 70) Styrene                    | 10.92 | 104  | 442      | 49.761   | ug/l # | 1        |
| 71) Bromoform                  | 10.90 | 173  | 67       | 39.150   | ug/l # | 29       |
| 73) Isopropylbenzene           | 11.21 | 105  | 278      | 51.683   | ug/l # | 48       |
| 74) N-amyl acetate             | 11.02 | 43   | 913      | 699.041  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.79 | 83   | 118      | 107.082  | ug/l # | 25       |
| 76) 1,2,3-Trichloropropane     | 11.82 | 75   | 368      | 520.914  | ug/l   | 92       |
| 77) Bromobenzene               | 11.60 | 156  | 135      | 111.061  | ug/l # | 28       |
| 78) n-propylbenzene            | 11.71 | 91   | 86       | 13.442   | ug/l # | 52       |
| 79) 2-Chlorotoluene            | 11.77 | 91   | 443      | 125.463  | ug/l # | 41       |
| 80) 1,3,5-Trimethylbenzene     | 11.93 | 105  | 130      | 30.875   | ug/l # | 54       |
| 81) trans-1,4-Dichloro-2-buten | 11.94 | 75   | 192      | 637.641  | ug/l # | 1        |
| 82) 4-Chlorotoluene            | 12.00 | 91   | 455      | 131.789  | ug/l # | 40       |
| 83) tert-Butylbenzene          | 12.19 | 119  | 157      | 35.647   | ug/l # | 34       |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 67       | 16.199   | ug/l # | 27       |
| 85) sec-Butylbenzene           | 12.39 | 105  | 306      | 51.174   | ug/l # | 59       |
| 86) p-Isopropyltoluene         | 12.58 | 119  | 310      | 62.980   | ug/l # | 1        |
| 87) 1,3-Dichlorobenzene        | 12.49 | 146  | 60       | 25.237   | ug/l # | 23       |
| 88) 1,4-Dichlorobenzene        | 12.67 | 146  | 188      | 84.296   | ug/l # | 23       |
| 89) n-Butylbenzene             | 12.93 | 91   | 139      | 27.742   | ug/l # | 28       |
| 90) Hexachloroethane           | 13.00 | 117  | 443      | 351.355  | ug/l # | 21       |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 92       | 43.619   | ug/l # | 43       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 516      | 3812.100 | ug/l # | 1        |

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Operator : FY/SY  
Sample : K2823-04  
Misc : 6.06g/5mL/MSVOA F/SOIL  
ALS Vial : 16 Sample Multiplier: 1

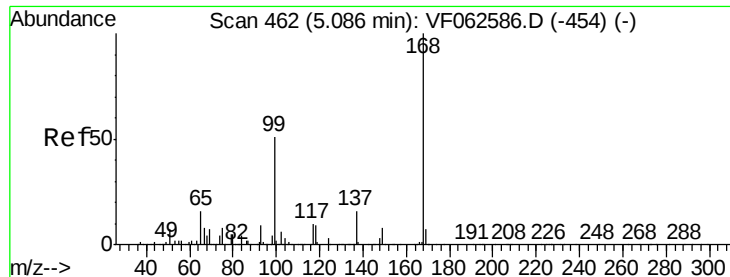
Instrument :  
MSVOA\_F  
ClientSampleId :  
11-B2

Quant Time: May 16 03:31:03 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  | 98       | 66.817  | ug/l # | 3        |
| 94) Hexachlorobutadiene    | 14.20 | 225  | 67       | 62.885  | ug/l # | 19       |
| 95) Naphthalene            | 14.47 | 128  | 264      | 110.587 | ug/l # | 32       |
| 96) 1,2,3-Trichlorobenzene | 14.63 | 180  | 214      | 157.278 | 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: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

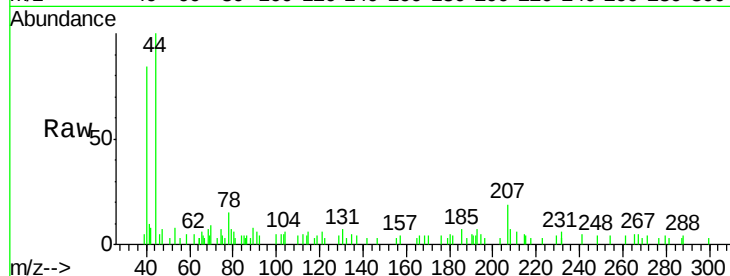
11-B2

Tot Ion:168 Resp: 80

Ion Ratio Lower Upper

168 100

99 0.0 41.0 61.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

150

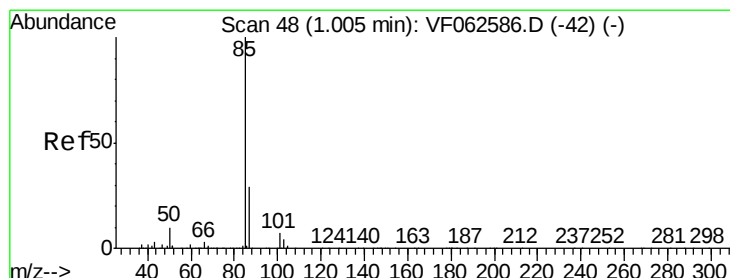
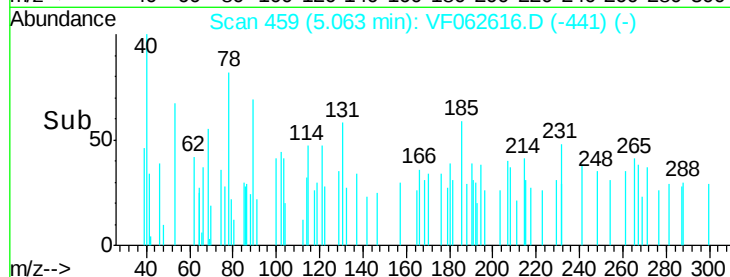
100

50

0

5.04 5.06 5.08

Time-->



#2

Dichlorodifluoromethane

Concen: 740.692 ug/l

RT: 1.02 min Scan# 49

Delta R.T. 0.02 min

Lab File: VF062616.D

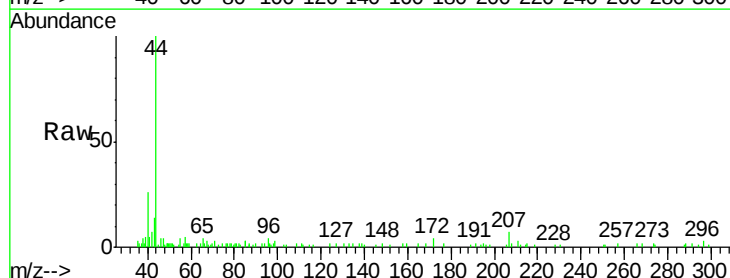
Acq: 15 May 2019 18:41

Tgt Ion: 85 Resp: 472

Ion Ratio Lower Upper

85 100

87 21.5 14.6 43.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.02

600

500

400

300

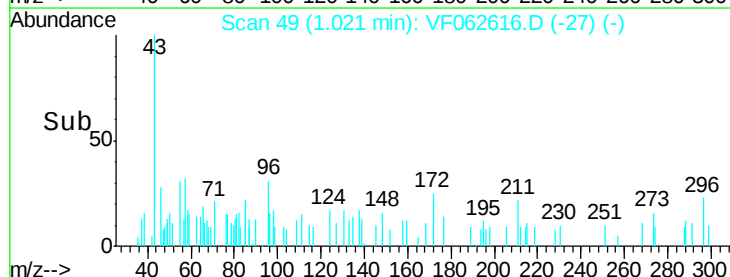
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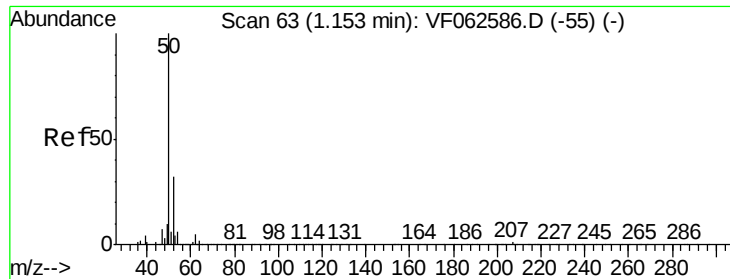
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0

1.00 1.02 1.04

Time-->





#3

Chloromethane

Concen: 440.628 ug/l

RT: 1.18 min Scan# 65

Delta R.T. 0.03 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

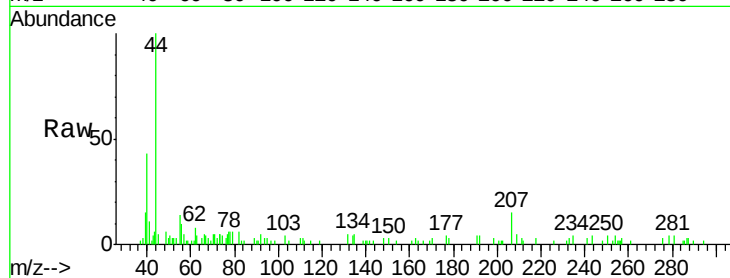
11-B2

Tot Ion: 50 Resp: 402

Ion Ratio Lower Upper

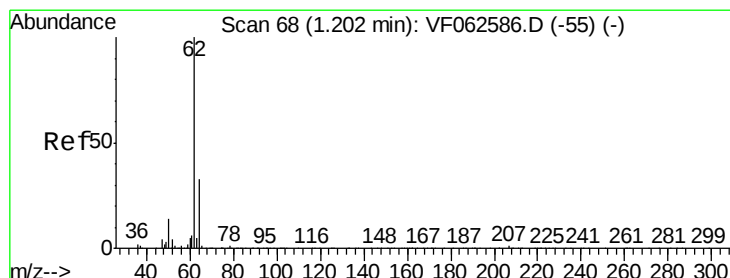
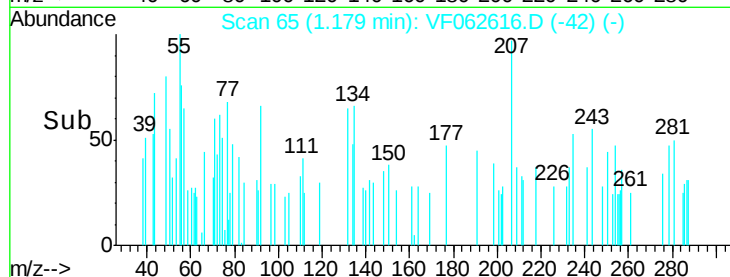
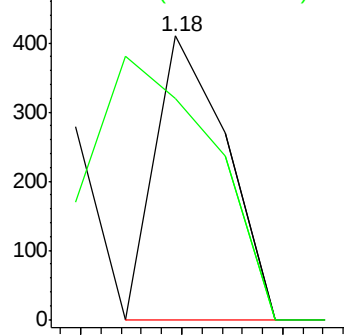
50 100

52 77.8 25.3 37.9#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 593.607 ug/l

RT: 1.18 min Scan# 65

Delta R.T. -0.02 min

Lab File: VF062616.D

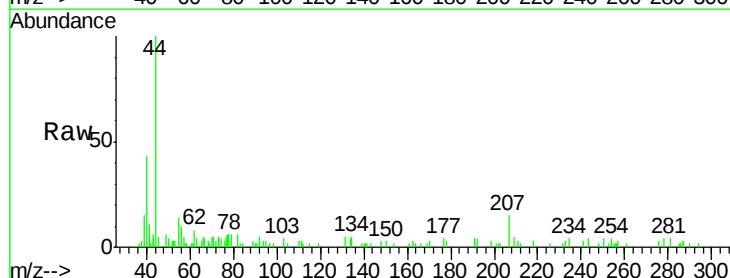
Acq: 15 May 2019 18:41

Tgt Ion: 62 Resp: 539

Ion Ratio Lower Upper

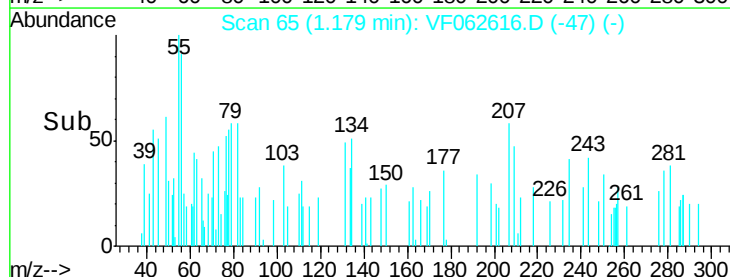
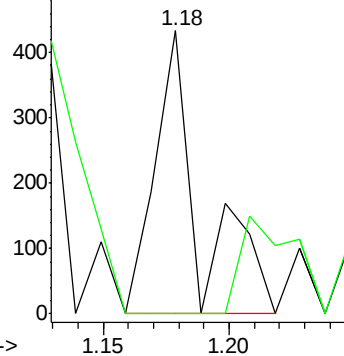
62 100

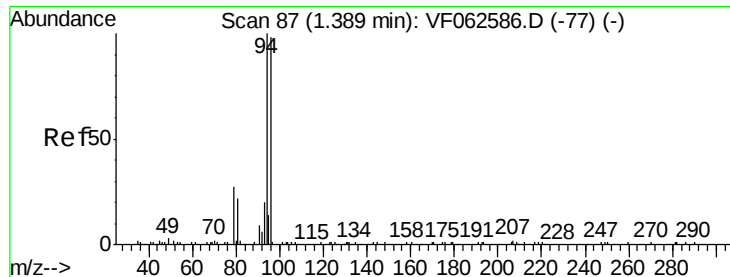
64 0.0 26.5 39.7#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 89

Delta R.T. 0.03 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

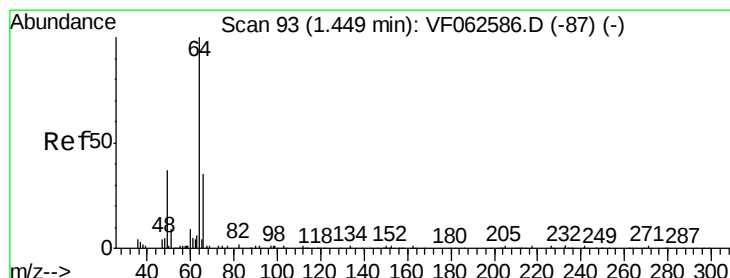
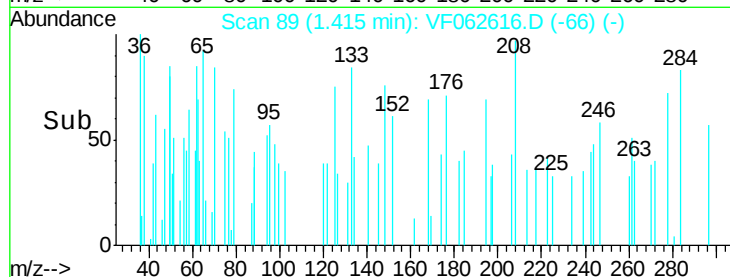
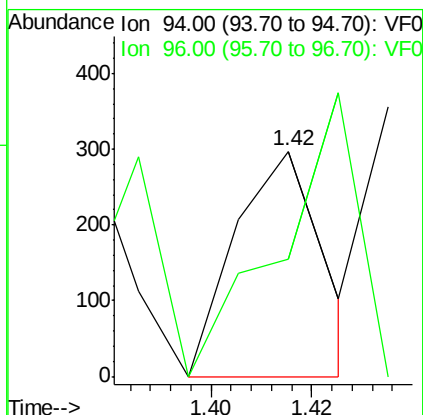
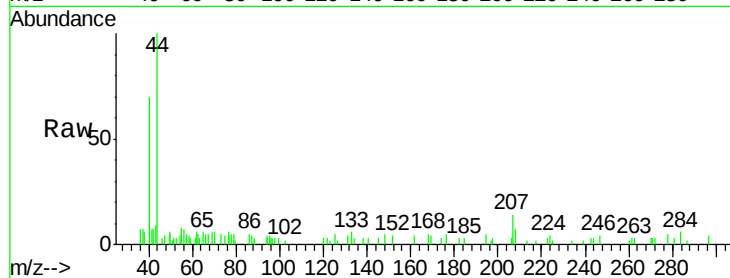
11-B2

Tot Ion: 94 Resp: 359

Ion Ratio Lower Upper

94 100

96 104.0 79.3 118.9



#6

Chloroethane

Concen: 437.904 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.00 min

Lab File: VF062616.D

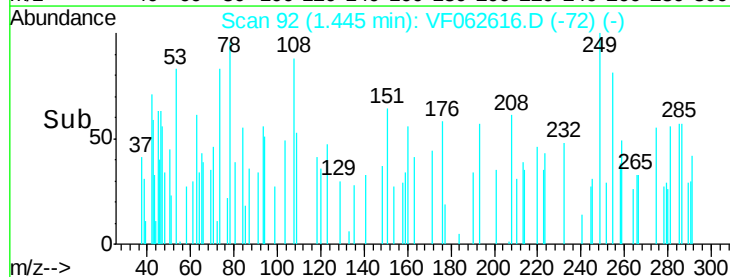
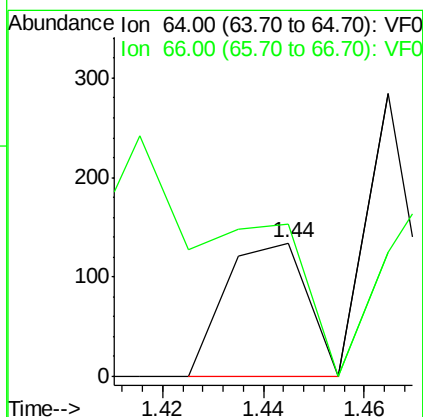
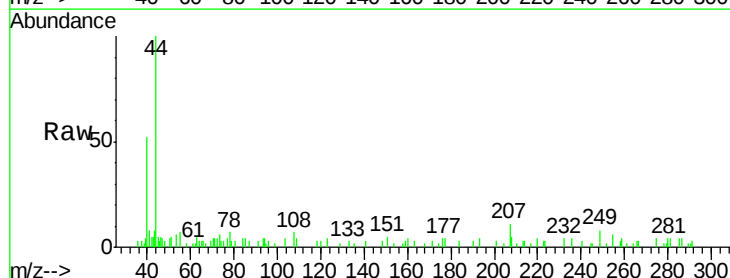
Acq: 15 May 2019 18:41

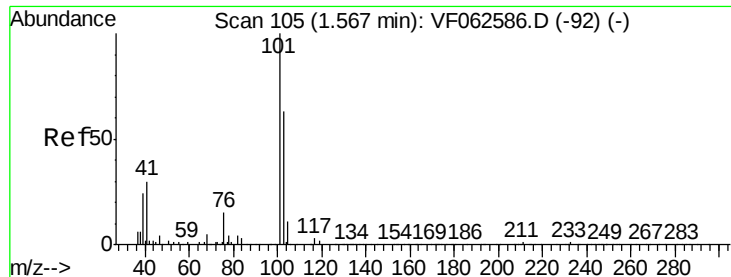
Tgt Ion: 64 Resp: 151

Ion Ratio Lower Upper

64 100

66 114.2 28.9 43.3#



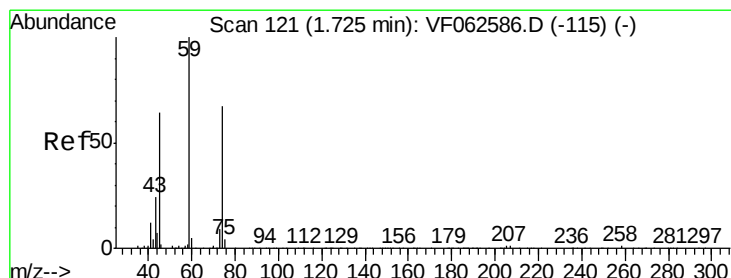
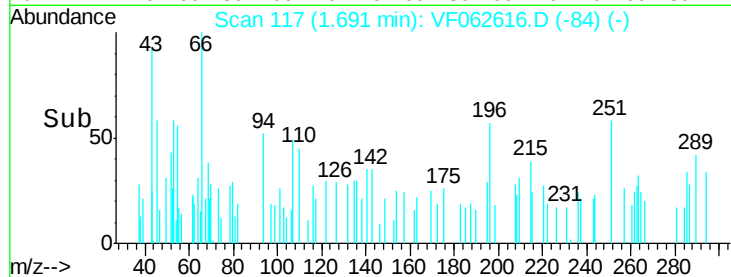
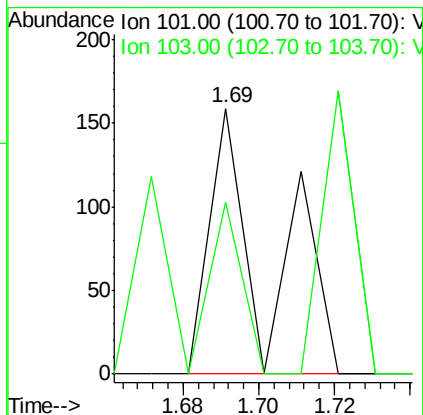
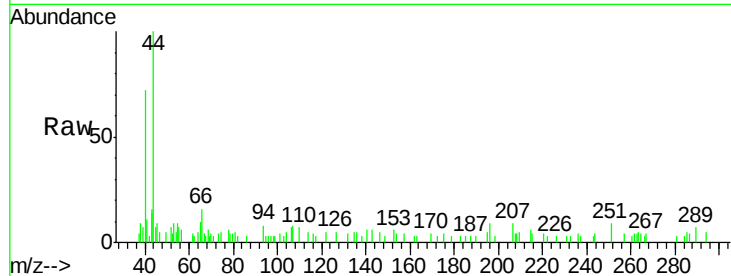


#7

Trichlorofluoromethane  
Concen: 133.428 ug/l  
RT: 1.69 min Scan# 117  
Delta R.T. 0.12 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

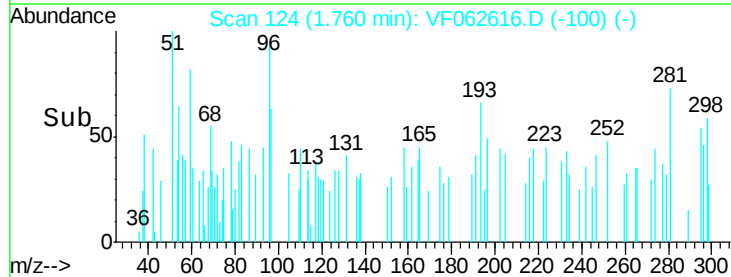
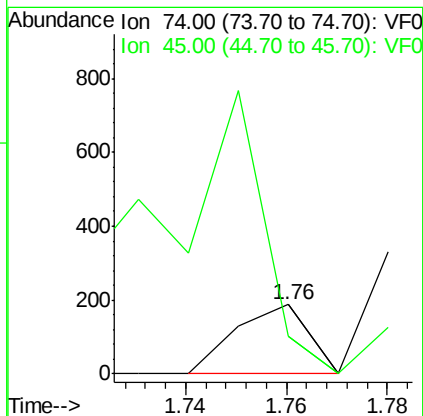
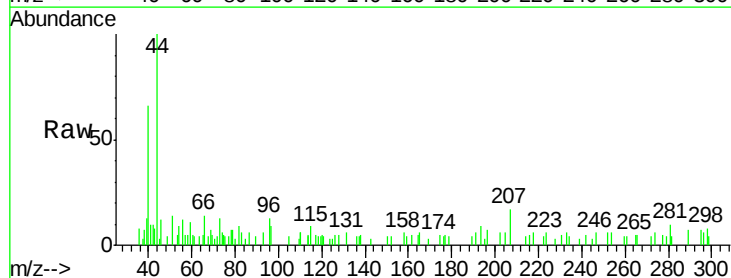
Tot Ion:101 Resp: 166  
Ion Ratio Lower Upper  
101 100  
103 64.8 50.8 76.2

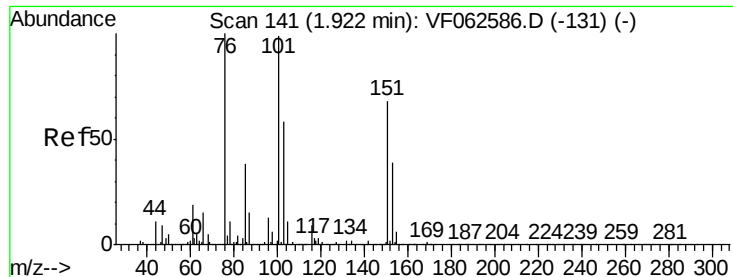


#8

Diethyl Ether  
Concen: 677.701 ug/l  
RT: 1.76 min Scan# 124  
Delta R.T. 0.04 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion: 74 Resp: 189  
Ion Ratio Lower Upper  
74 100  
45 53.7 48.6 145.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 408.898 ug/l

RT: 1.92 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

11-B2

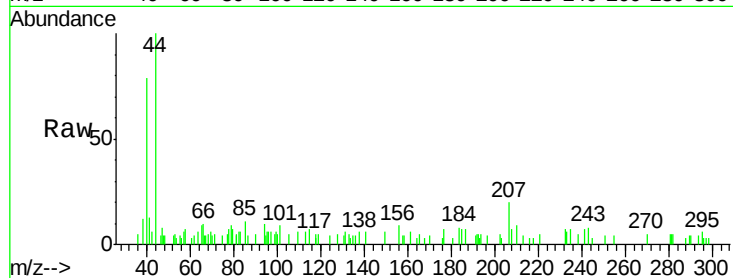
Tot Ion:101 Resp: 347

Ion Ratio Lower Upper

101 100

85 126.9 30.2 45.4#

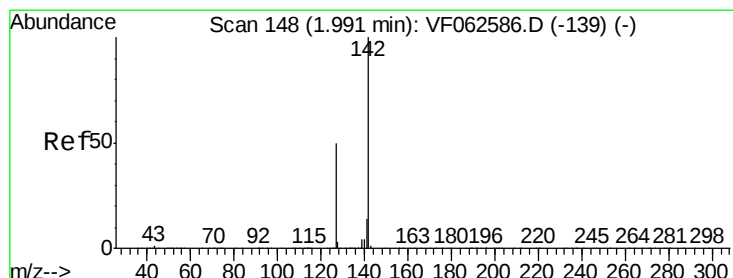
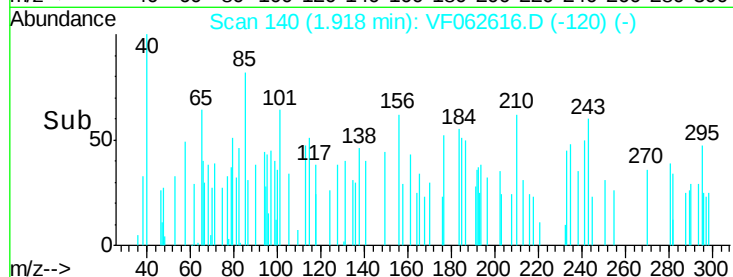
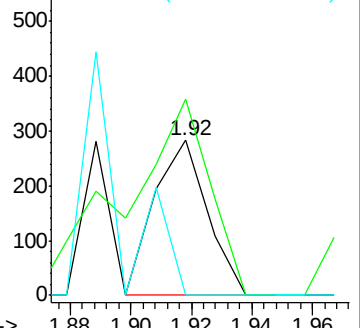
151 0.0 54.5 81.7#



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: 114.463 ug/l

RT: 1.98 min Scan# 146

Delta R.T. -0.01 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

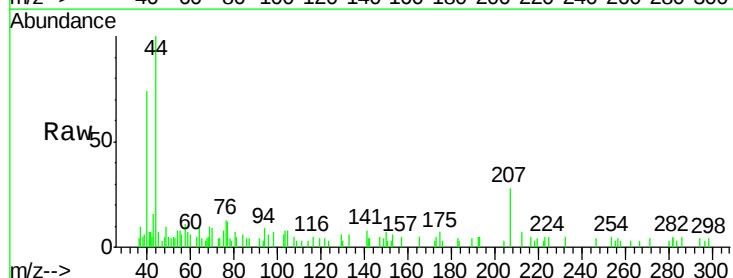
Tgt Ion:142 Resp: 173

Ion Ratio Lower Upper

142 100

127 0.0 40.2 60.4#

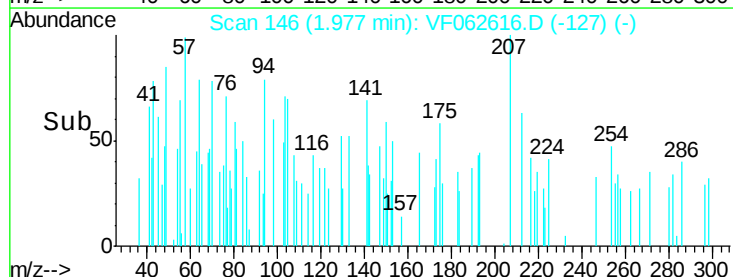
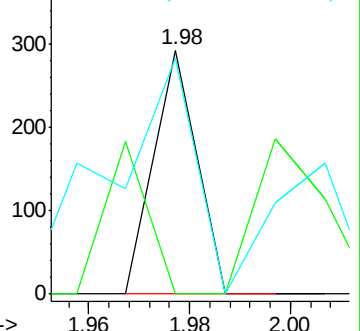
141 96.6 11.6 17.4#

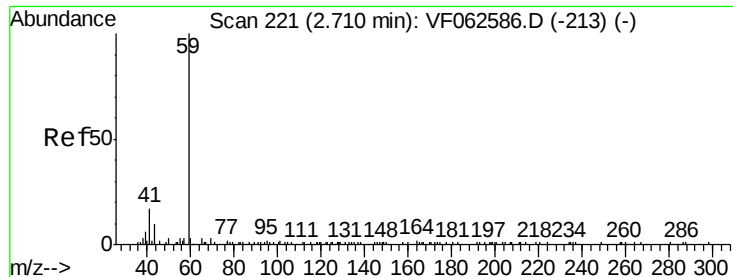


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



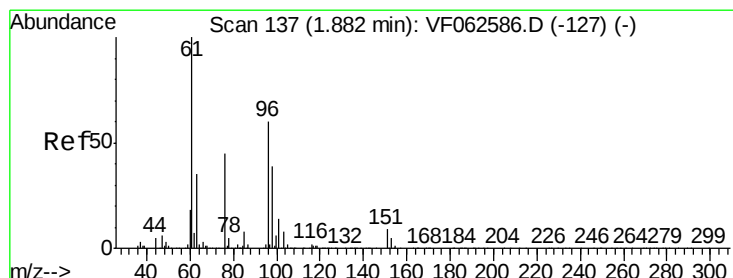
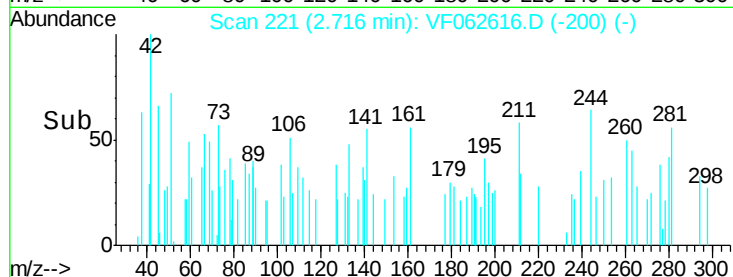
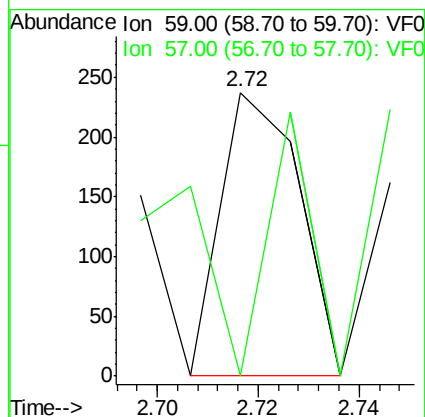
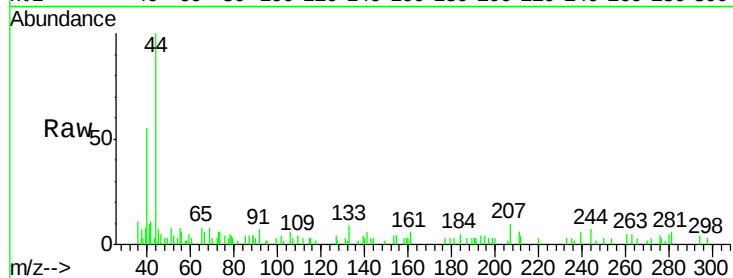


#11

Tert butyl alcohol  
Concen: 7035.484 ug/l  
RT: 2.72 min Scan# 221  
Delta R.T. 0.01 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

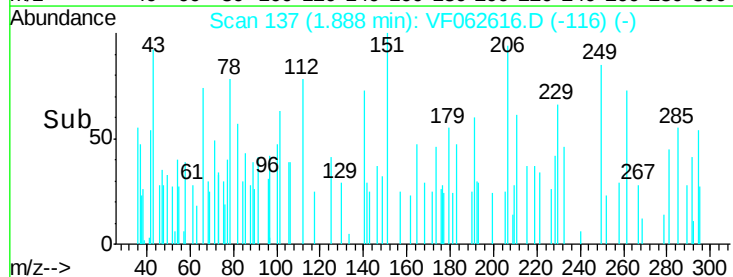
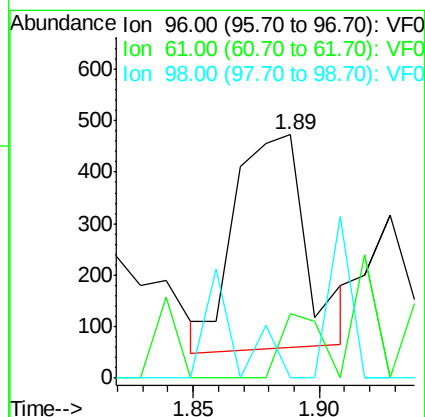
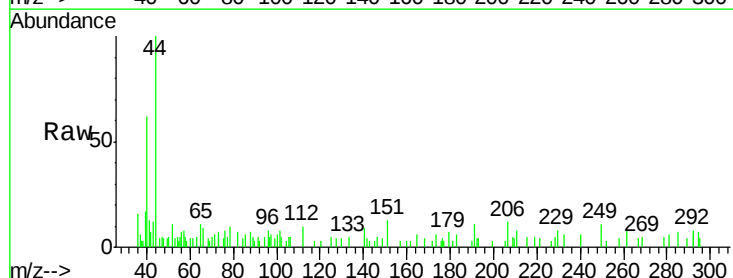
Tot Ion: 59 Resp: 256  
Ion Ratio Lower Upper  
59 100  
57 43.9 8.0 12.0#

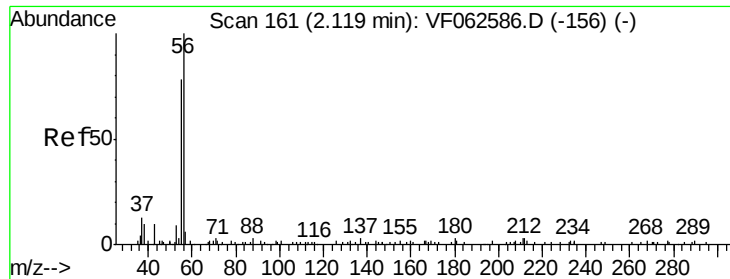


#12

1,1-Dichloroethene  
Concen: 1145.878 ug/l  
RT: 1.89 min Scan# 137  
Delta R.T. 0.01 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion: 96 Resp: 833  
Ion Ratio Lower Upper  
96 100  
61 26.6 132.0 198.0#  
98 0.0 51.3 76.9#

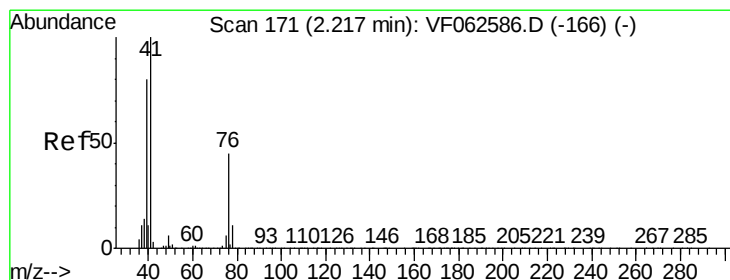
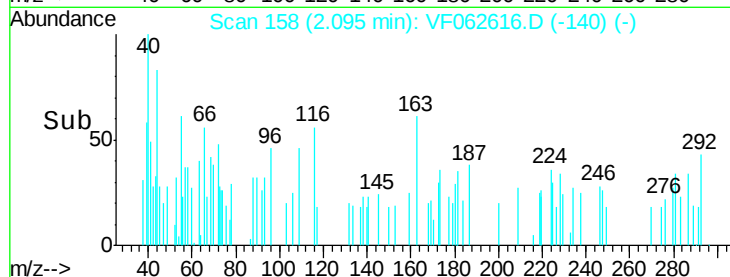
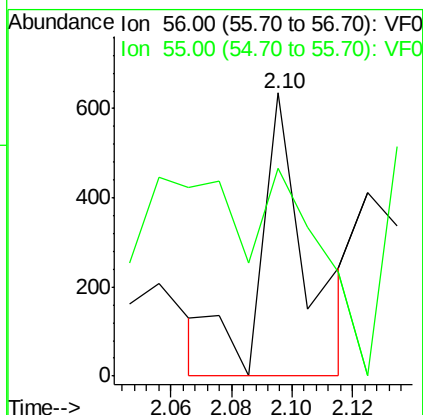
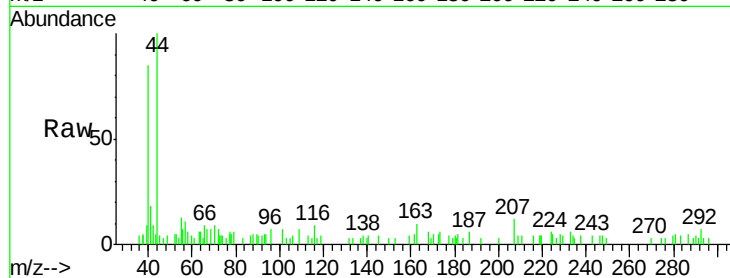




#13  
Acrolein  
Concen: 28530.142 ug/l  
RT: 2.10 min Scan# 158  
Delta R.T. -0.02 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

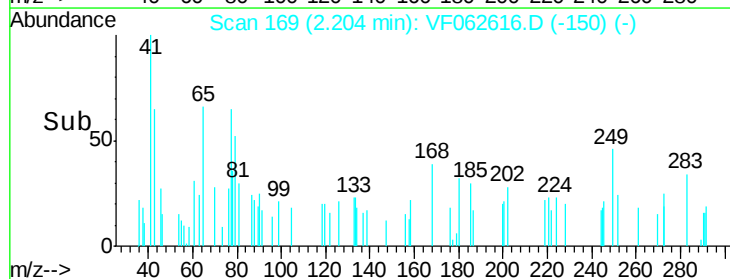
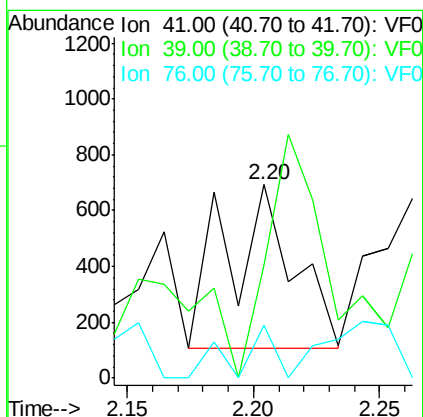
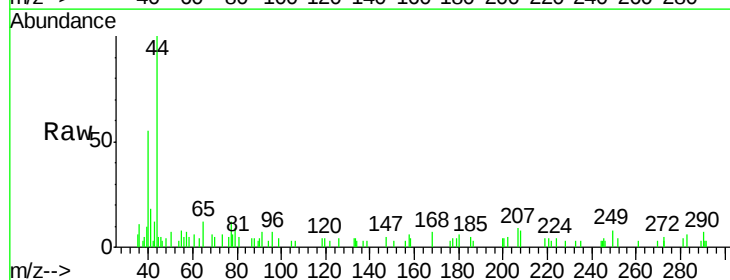
Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

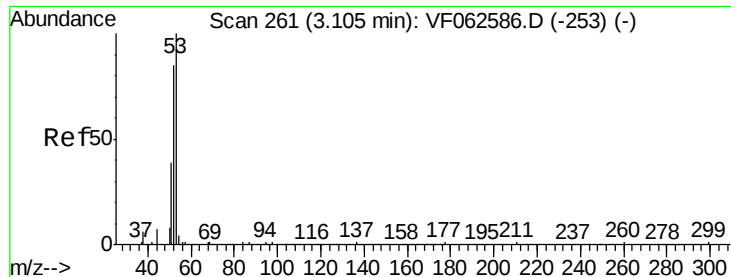
Tot Ion: 56 Resp: 688  
Ion Ratio Lower Upper  
56 100  
55 73.2 64.6 96.8



#14  
Allyl chloride  
Concen: 1457.293 ug/l  
RT: 2.20 min Scan# 169  
Delta R.T. -0.01 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion: 41 Resp: 1084  
Ion Ratio Lower Upper  
41 100  
39 58.2 64.6 96.8#  
76 27.5 36.1 54.1#





#15

Acrylonitrile

Concen: 4502.065 ug/l

RT: 3.12 min Scan# 262

Delta R.T. 0.02 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

11-B2

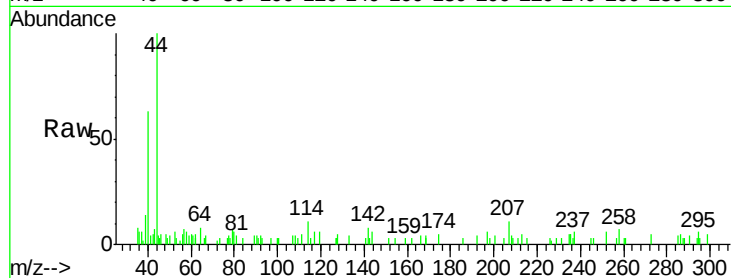
Tot Ion: 53 Resp: 586

Ion Ratio Lower Upper

53 100

52 69.0 68.3 102.5

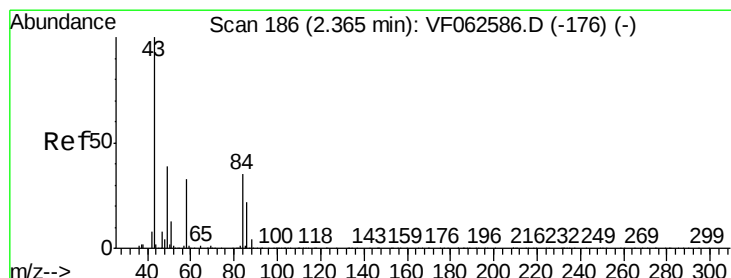
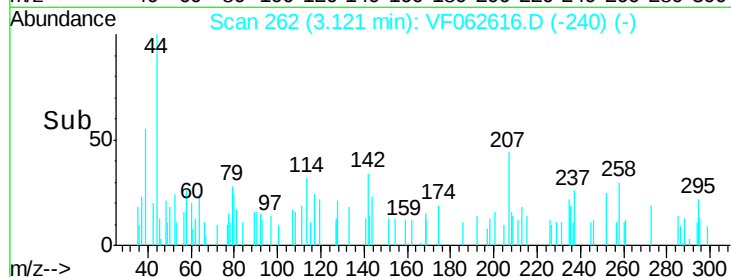
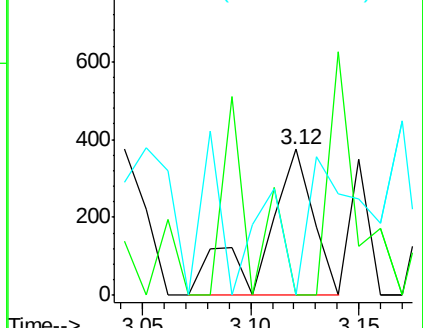
51 0.0 31.5 47.3#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 7037.183 ug/l

RT: 2.26 min Scan# 175

Delta R.T. -0.10 min

Lab File: VF062616.D

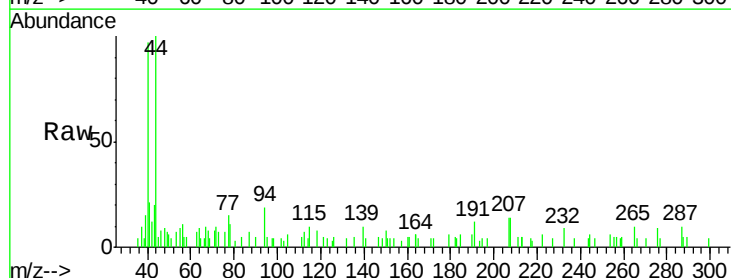
Acq: 15 May 2019 18:41

Tgt Ion: 43 Resp: 863

Ion Ratio Lower Upper

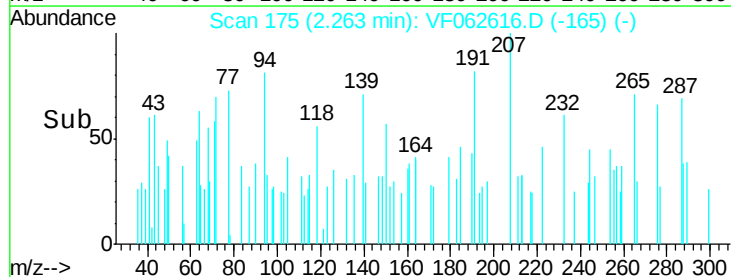
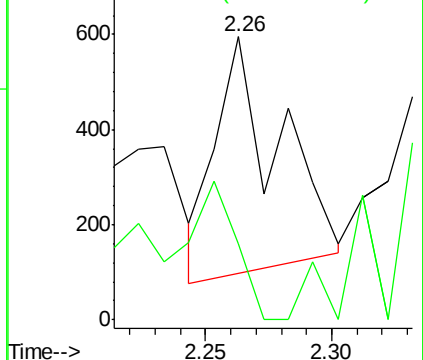
43 100

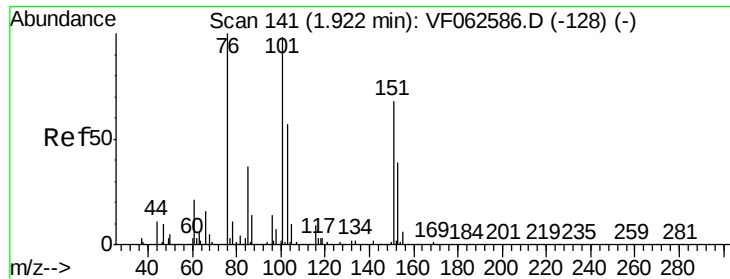
58 26.9 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

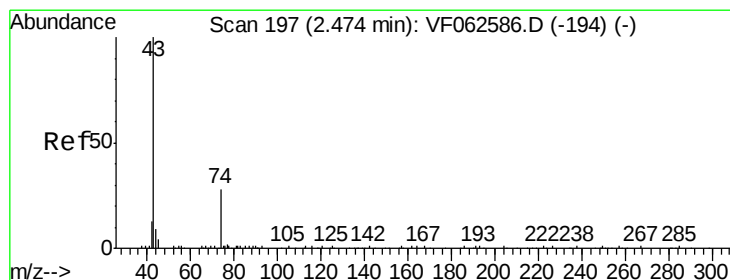
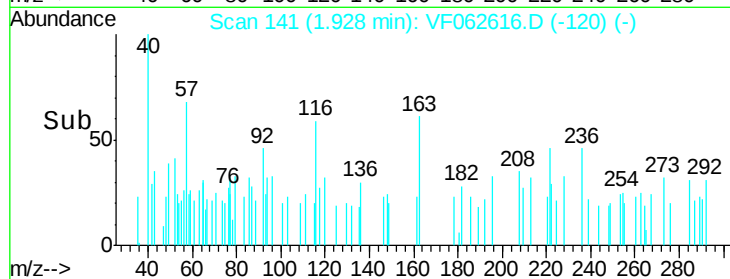
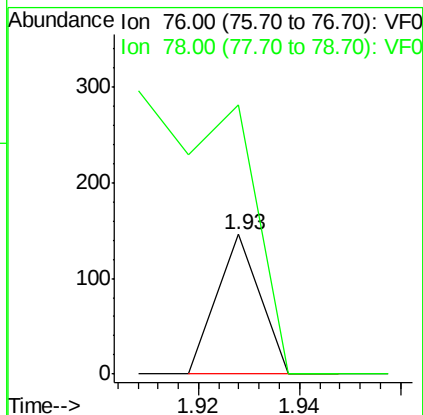
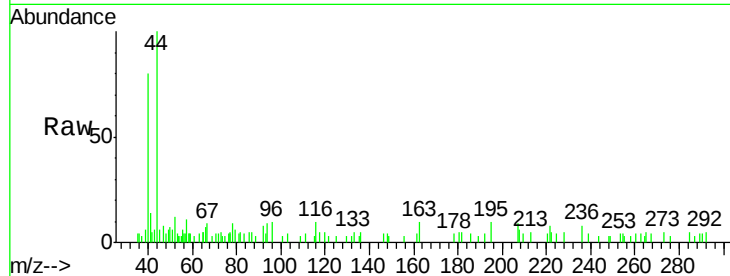




#17  
Carbon Disulfide  
Concen: 58.024 ug/l  
RT: 1.93 min Scan# 141  
Delta R.T. 0.01 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

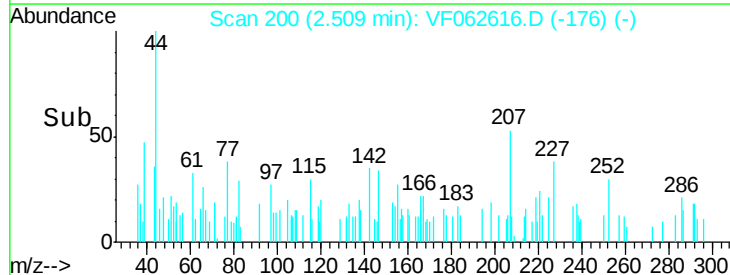
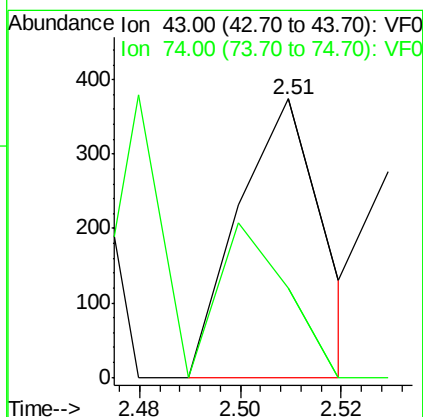
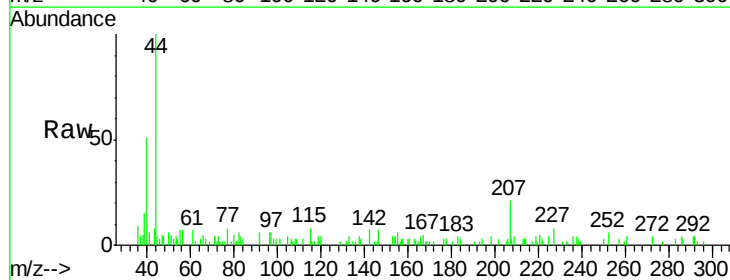
Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

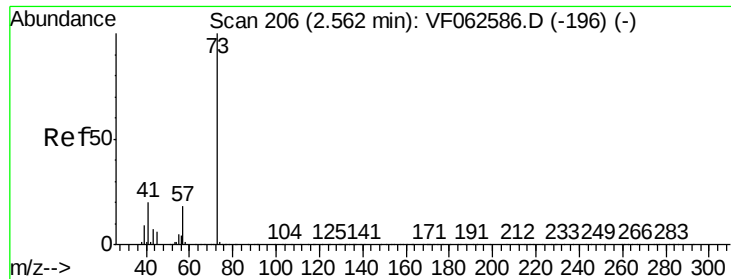
Tot Ion: 76 Resp: 86  
Ion Ratio Lower Upper  
76 100  
78 193.2 9.0 13.4#



#18  
Methyl Acetate  
Concen: 1913.712 ug/l  
RT: 2.51 min Scan# 200  
Delta R.T. 0.04 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion: 43 Resp: 435  
Ion Ratio Lower Upper  
43 100  
74 31.8 21.4 32.0



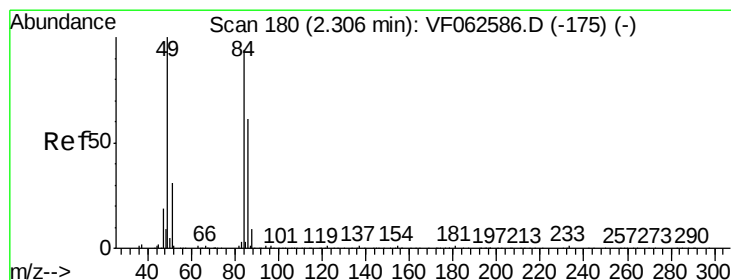
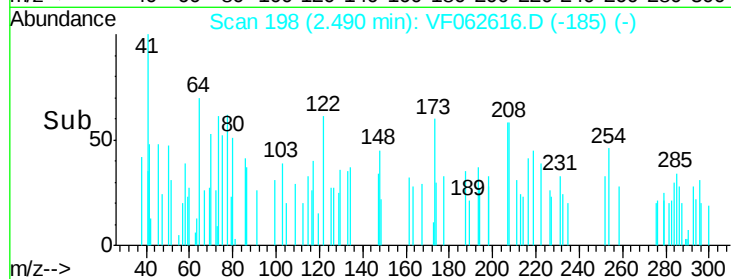
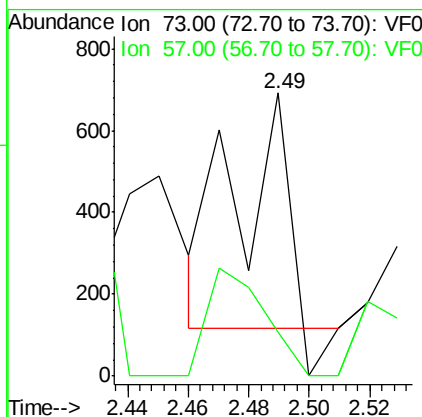
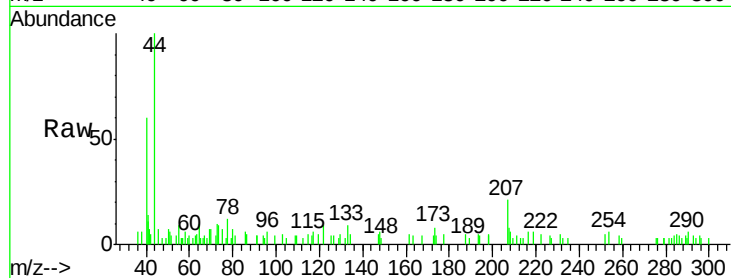


#19

Methyl tert-butyl Ether  
 Concen: 494.462 ug/l  
 RT: 2.49 min Scan# 198  
 Delta R.T. -0.07 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 11-B2

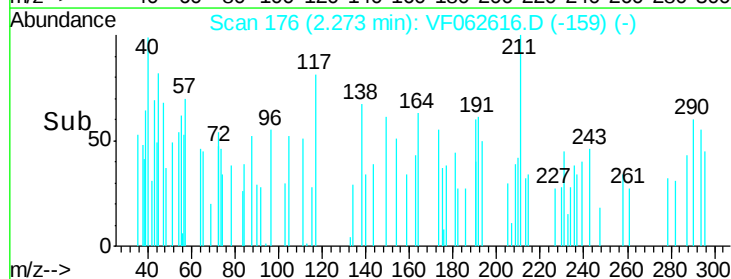
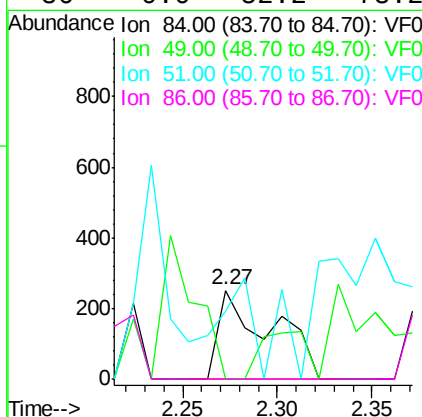
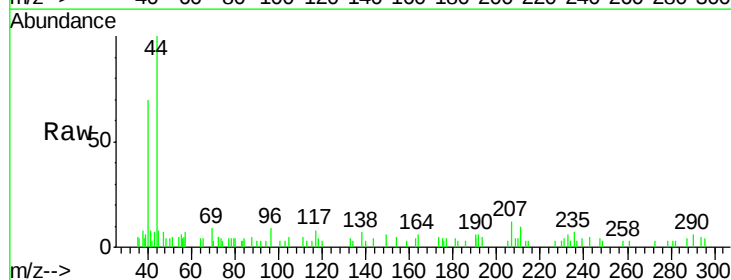
Tot Ion: 73 Resp: 640  
 Ion Ratio Lower Upper  
 73 100  
 57 15.3 14.6 22.0

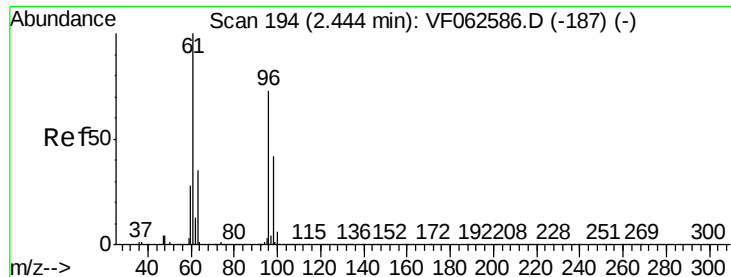


#20

Methylene Chloride  
 Concen: Below Cal  
 RT: 2.27 min Scan# 176  
 Delta R.T. -0.03 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

Tgt Ion: 84 Resp: 487  
 Ion Ratio Lower Upper  
 84 100  
 49 0.0 86.9 130.3#  
 51 75.8 27.0 40.6#  
 86 0.0 52.2 78.2#





#21

trans-1,2-Dichloroethene

Concen: 404.031 ug/l

RT: 2.45 min Scan# 194

Delta R.T. 0.01 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

11-B2

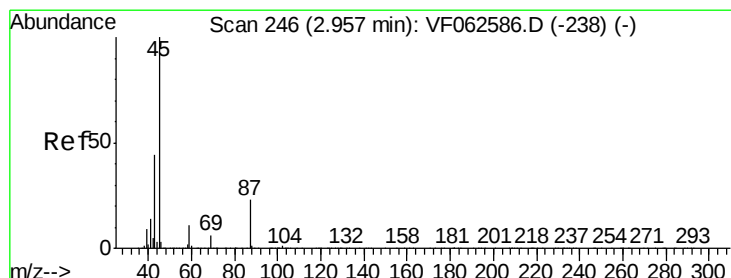
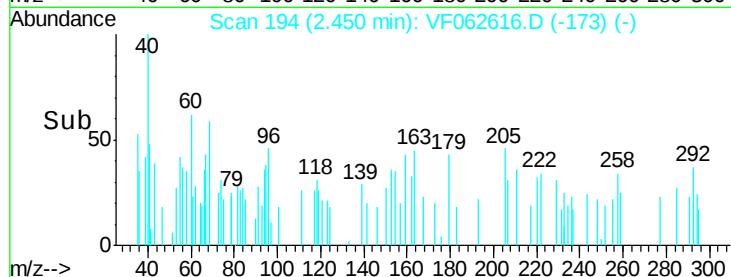
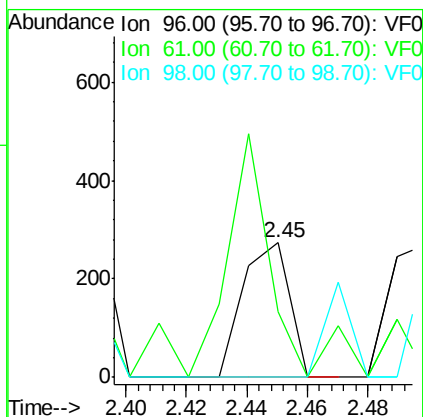
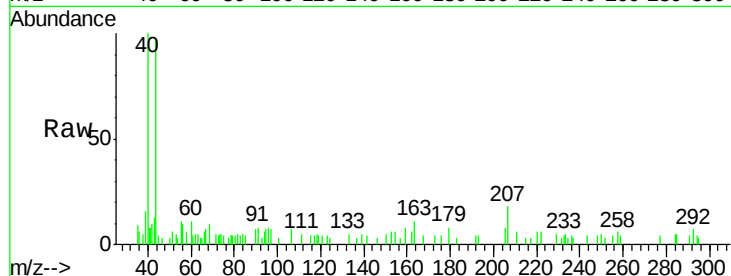
Tot Ion: 96 Resp: 296

Ion Ratio Lower Upper

96 100

61 49.1 109.2 163.8#

98 0.0 46.3 69.5#



#22

Diisopropyl ether

Concen: 485.684 ug/l

RT: 2.96 min Scan# 246

Delta R.T. 0.01 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Tgt Ion: 45 Resp: 840

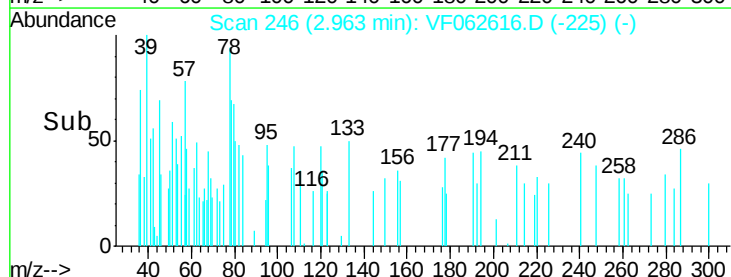
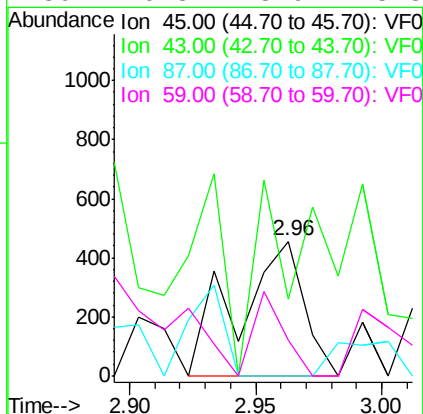
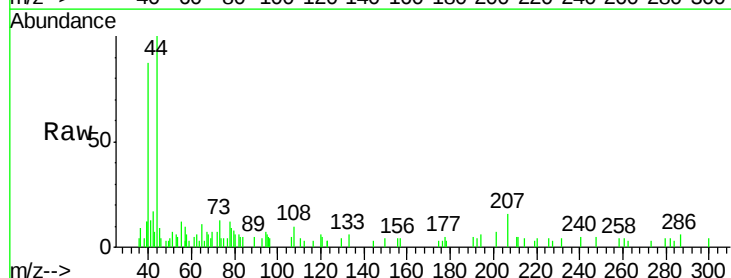
Ion Ratio Lower Upper

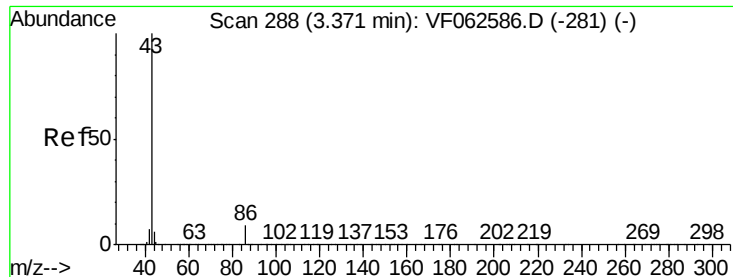
45 100

43 57.5 35.4 53.0#

87 0.0 18.4 27.6#

59 26.3 8.9 13.3#





#23

Vinyl Acetate

Concen: 1305.510 ug/l

RT: 3.39 min Scan# 289

Delta R.T. 0.02 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

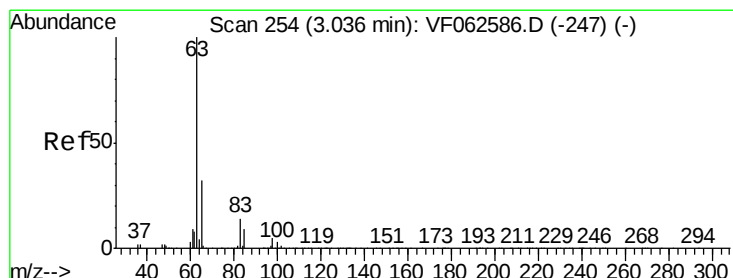
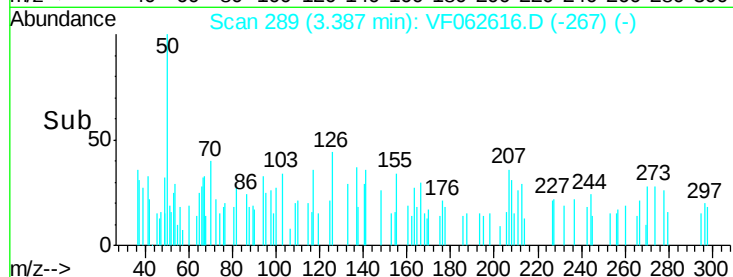
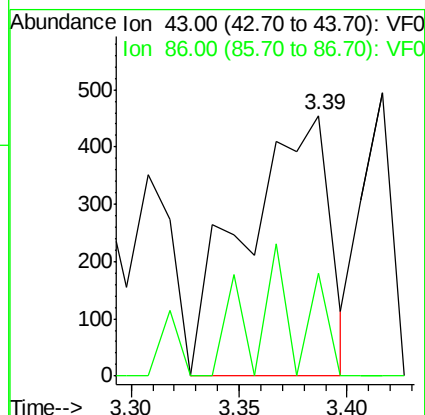
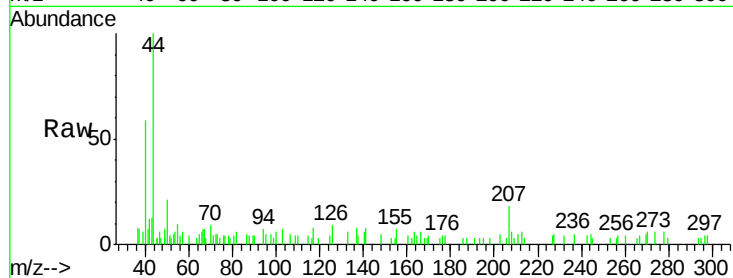
11-B2

Tot Ion: 43 Resp: 1235

Ion Ratio Lower Upper

43 100

86 39.6 7.1 10.7#



#24

1,1-Dichloroethane

Concen: 375.212 ug/l

RT: 2.99 min Scan# 249

Delta R.T. -0.04 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

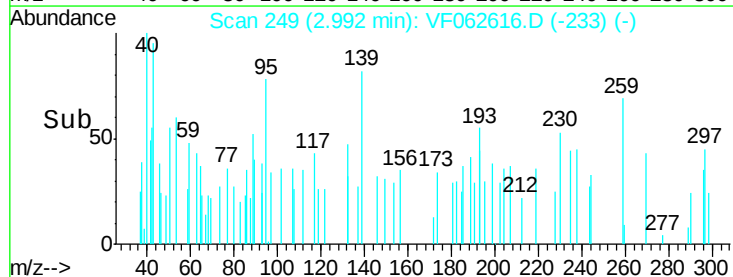
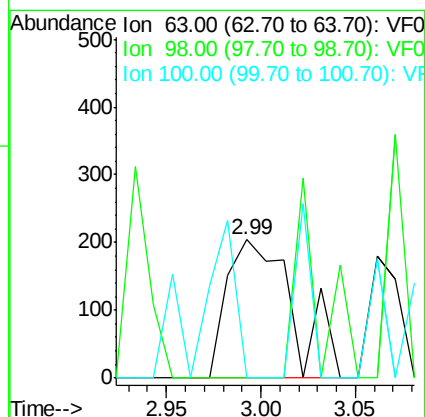
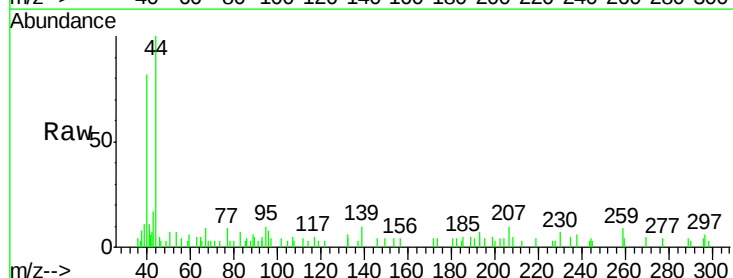
Tgt Ion: 63 Resp: 494

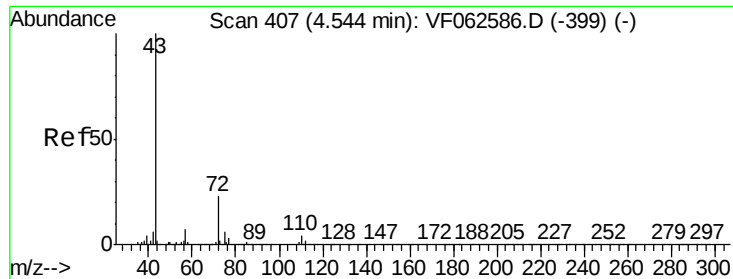
Ion Ratio Lower Upper

63 100

98 0.0 2.6 7.8#

100 0.0 1.7 5.1#





#25

2-Butanone

Concen: 5933.331 ug/l

RT: 4.47 min Scan# 399

Delta R.T. -0.07 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

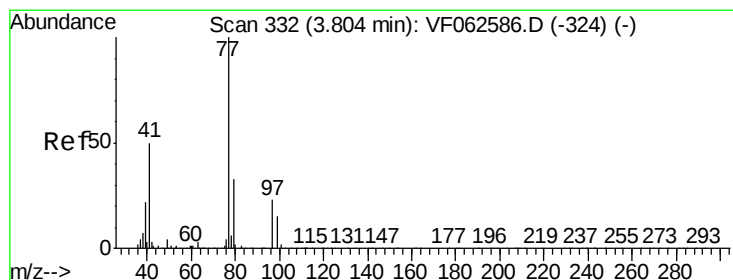
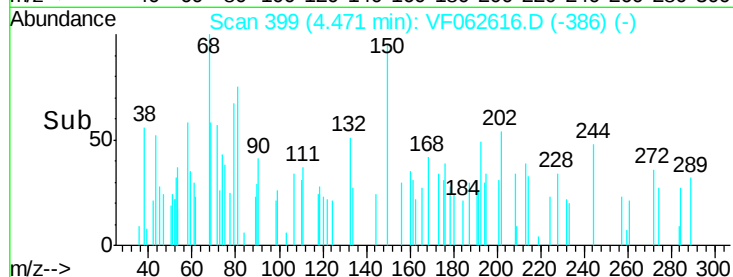
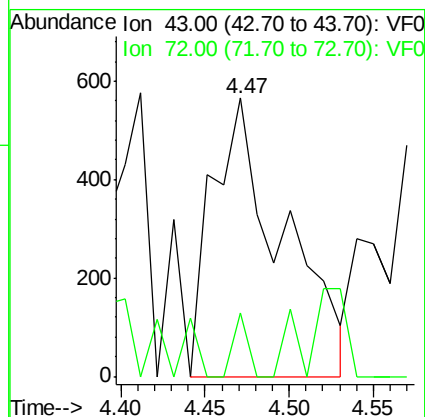
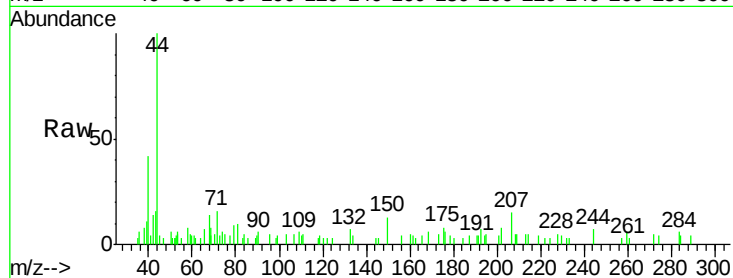
11-B2

Tot Ion: 43 Resp: 1645

Ion Ratio Lower Upper

43 100

72 22.8 18.5 27.7



#26

2,2-Dichloropropane

Concen: 599.531 ug/l

RT: 3.80 min Scan# 331

Delta R.T. -0.00 min

Lab File: VF062616.D

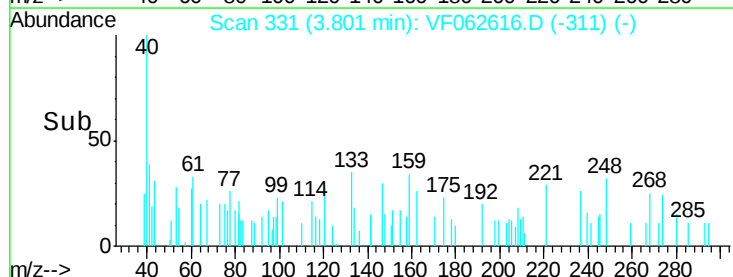
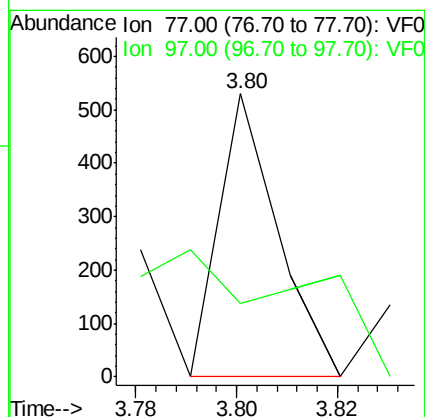
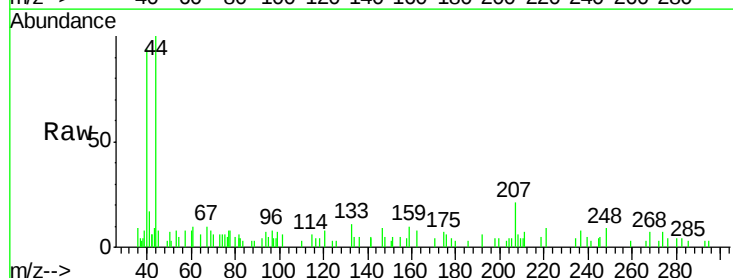
Acq: 15 May 2019 18:41

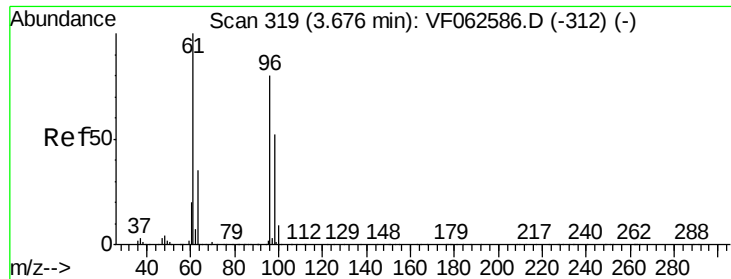
Tgt Ion: 77 Resp: 426

Ion Ratio Lower Upper

77 100

97 25.8 12.0 36.0



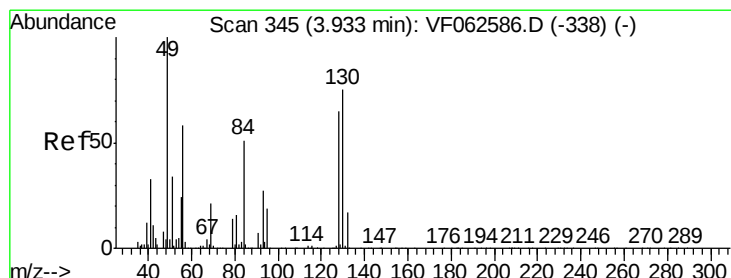
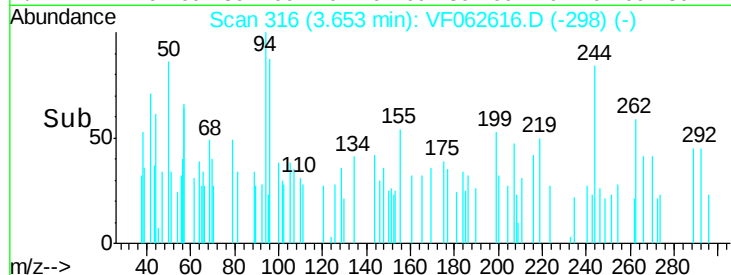
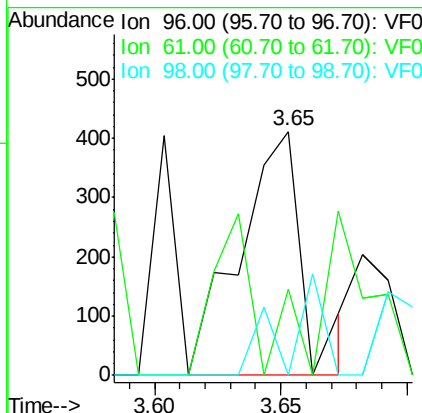
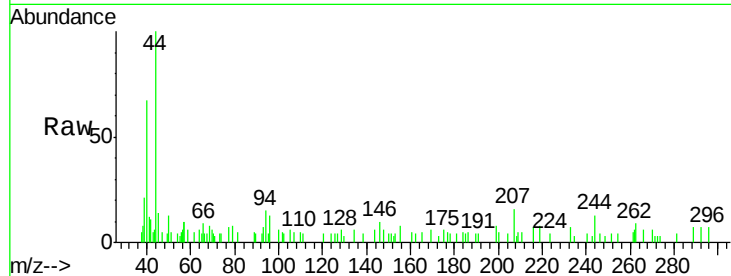


#27

cis-1,2-Dichloroethene  
 Concen: 694.641 ug/l  
 RT: 3.65 min Scan# 316  
 Delta R.T. -0.02 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 11-B2

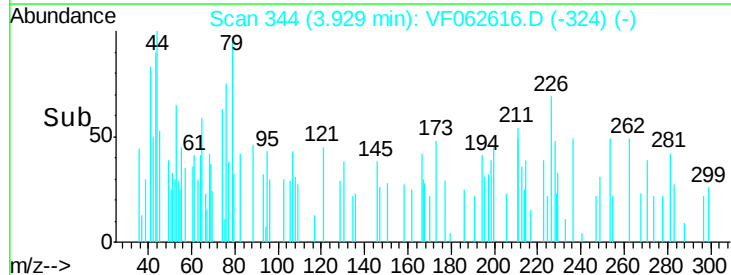
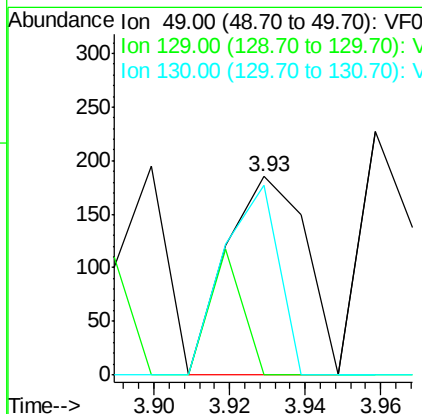
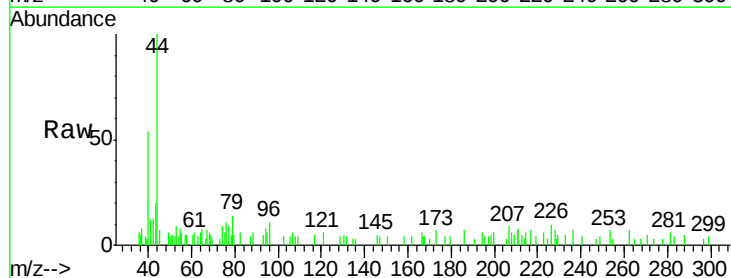
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 35.5  | 0.0   | 251.4 |
| 98      | 0.0   | 0.0   | 129.8 |

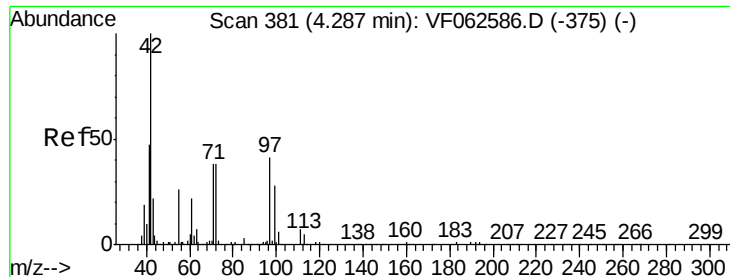


#28

Bromochloromethane  
 Concen: 364.831 ug/l  
 RT: 3.93 min Scan# 344  
 Delta R.T. -0.00 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 0.0   | 0.0   | 4.0   |
| 130     | 95.7  | 59.7  | 89.5# |

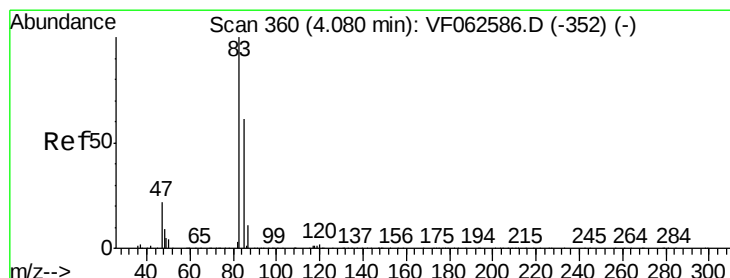
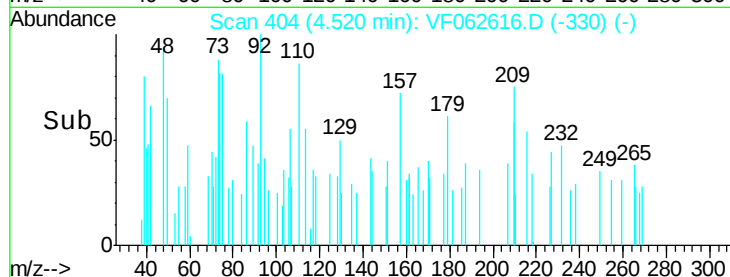
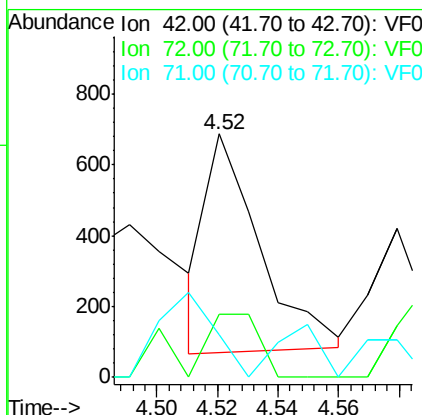
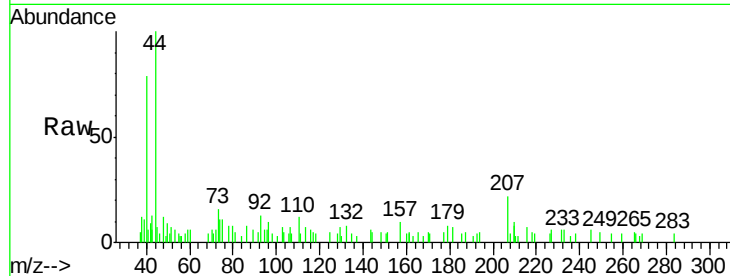




#29  
Tetrahydrofuran  
Concen: 6494.873 ug/l  
RT: 4.52 min Scan# 404  
Delta R.T. 0.23 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

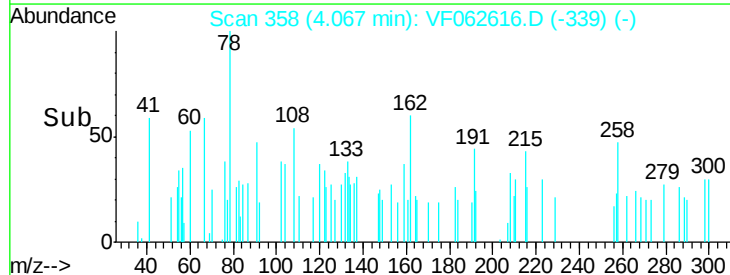
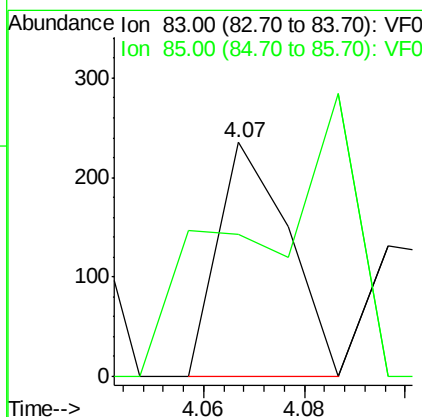
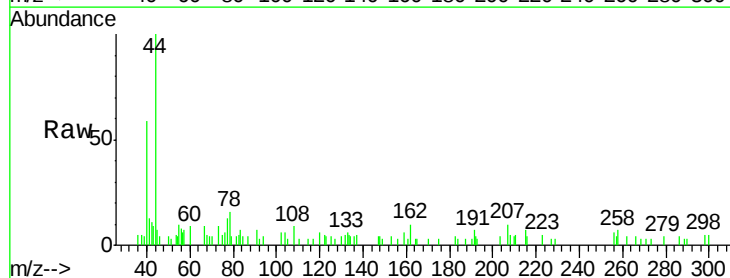
Instrument :  
MSVOA\_F  
ClientSampleId :  
11-B2

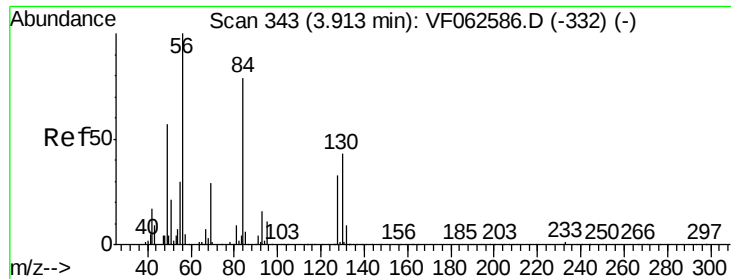
Tot Ion: 42 Resp: 762  
Ion Ratio Lower Upper  
42 100  
72 38.3 34.0 51.0  
71 40.3 32.8 49.2



#30  
Chloroform  
Concen: 144.320 ug/l  
RT: 4.07 min Scan# 358  
Delta R.T. -0.01 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion: 83 Resp: 228  
Ion Ratio Lower Upper  
83 100  
85 60.9 48.7 73.1





#31

Cyclohexane

Concen: 152.310 ug/l

RT: 3.91 min Scan# 342

Delta R.T. -0.00 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

11-B2

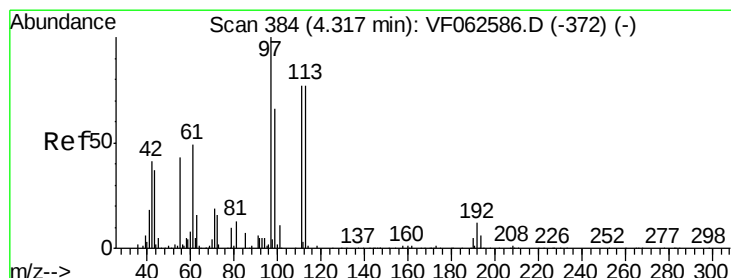
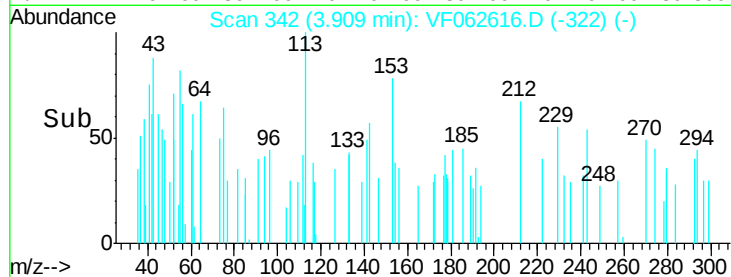
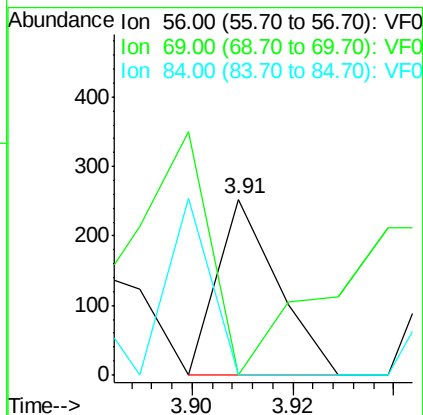
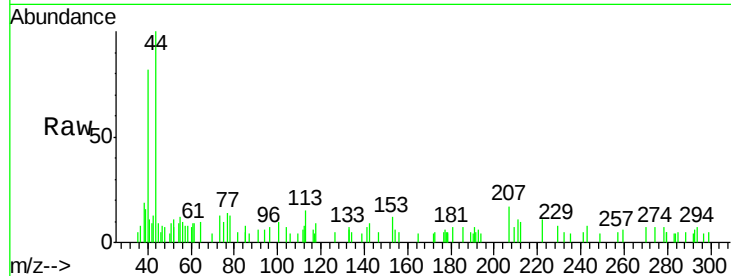
Tot Ion: 56 Resp: 209

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: 138.044 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.03 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

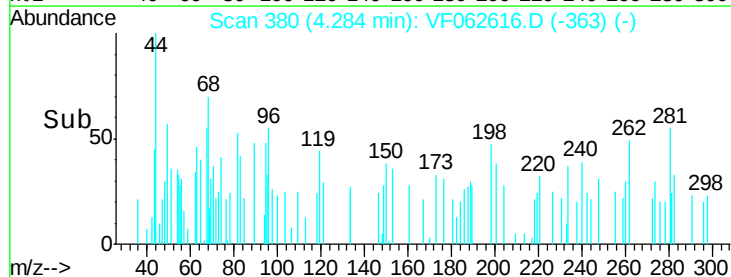
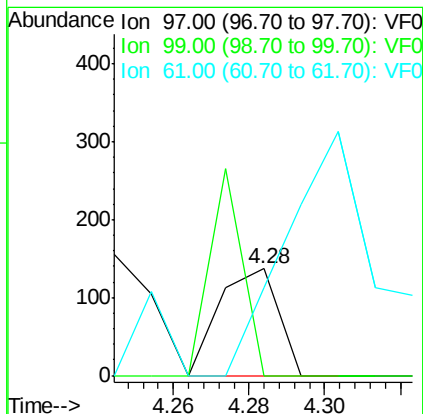
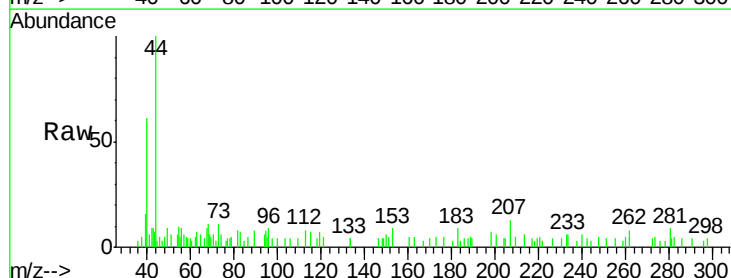
Tgt Ion: 97 Resp: 147

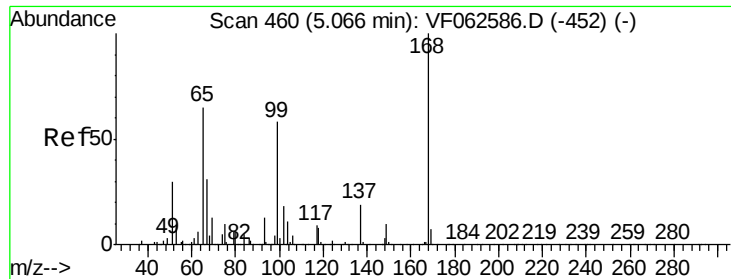
Ion Ratio Lower Upper

97 100

99 87.6 53.4 80.0#

61 81.8 38.9 58.3#

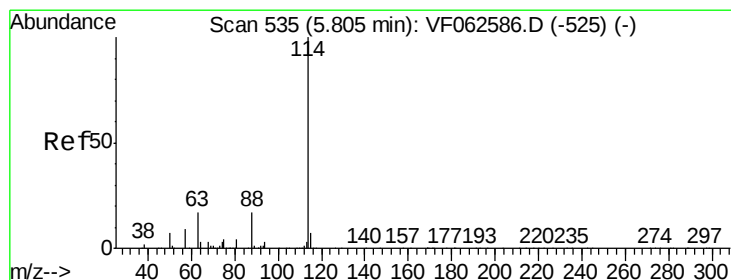
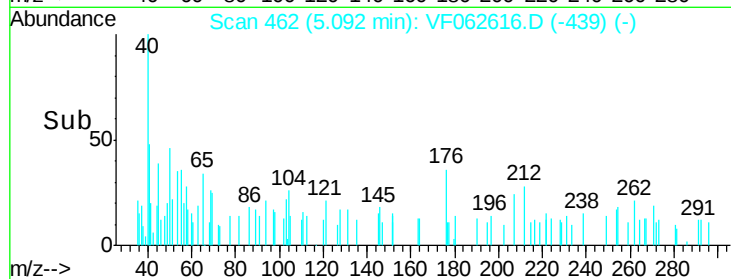
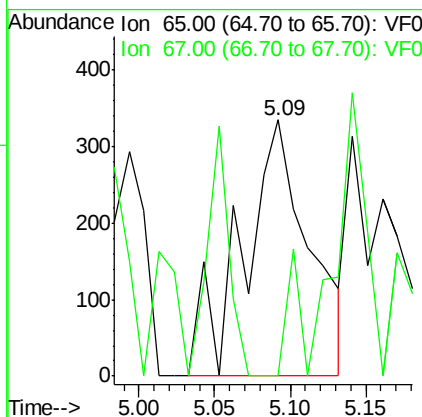
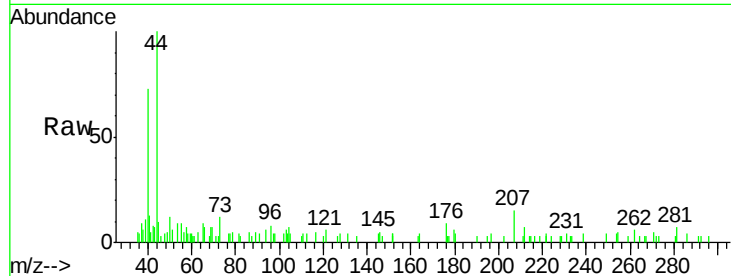




#33  
 1,2-Dichloroethane-d4  
 Concen: 1689.385 ug/l  
 RT: 5.09 min Scan# 462  
 Delta R.T. 0.03 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

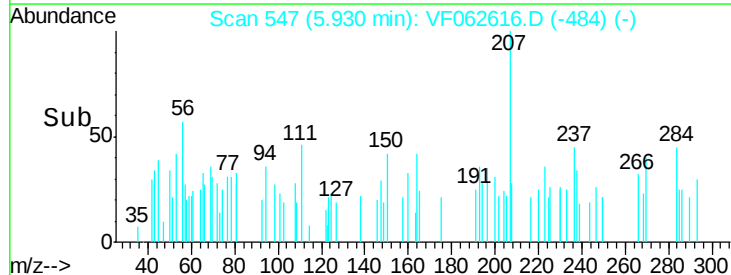
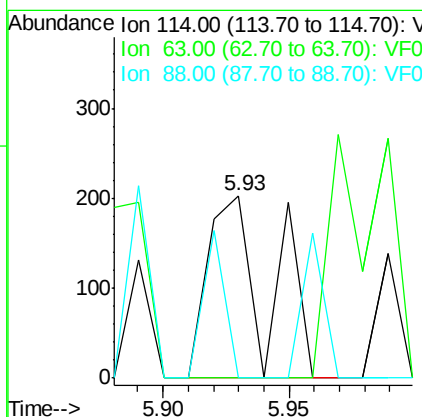
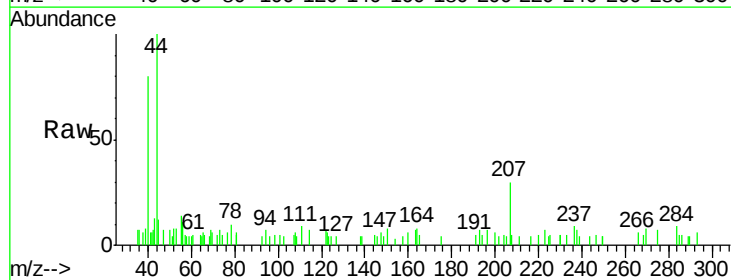
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 11-B2

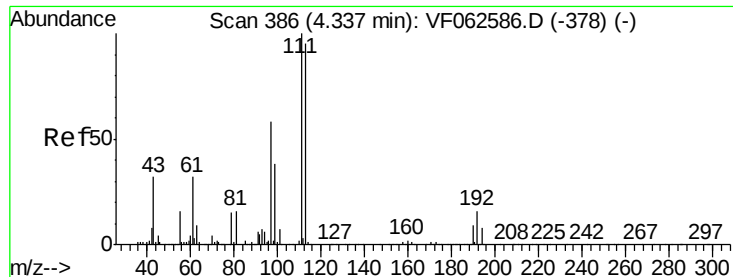
Tot Ion: 65 Resp: 1021  
 Ion Ratio Lower Upper  
 65 100  
 67 0.0 0.0 116.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.93 min Scan# 547  
 Delta R.T. 0.12 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

Tgt Ion: 114 Resp: 341  
 Ion Ratio Lower Upper  
 114 100  
 63 0.0 0.0 34.6  
 88 0.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 81.955 ug/l

RT: 4.45 min Scan# 397

Delta R.T. 0.11 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

11-B2

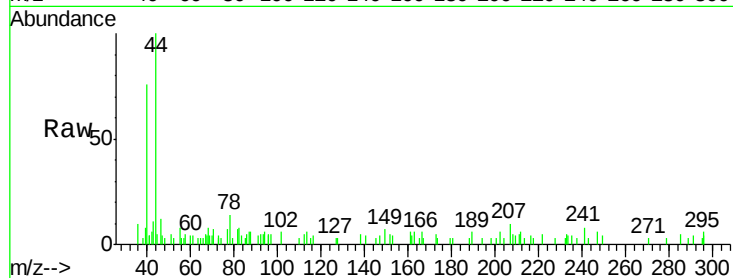
Tot Ion:113 Resp: 208

Ion Ratio Lower Upper

113 100

111 0.0 83.9 125.9#

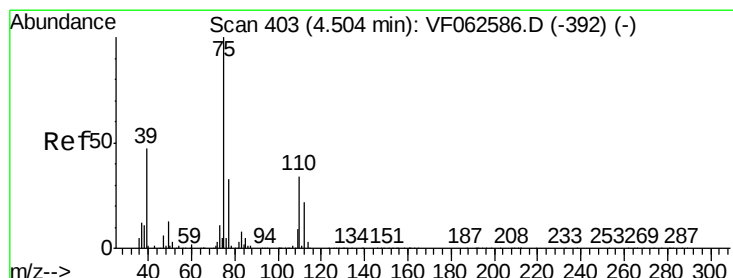
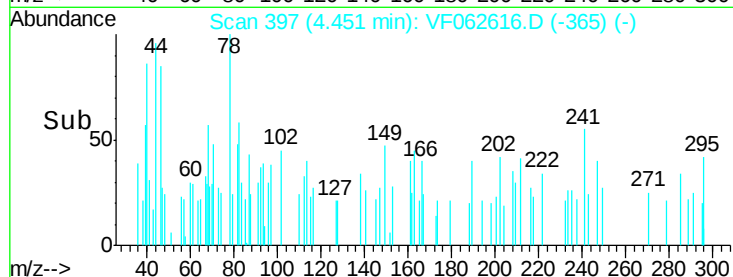
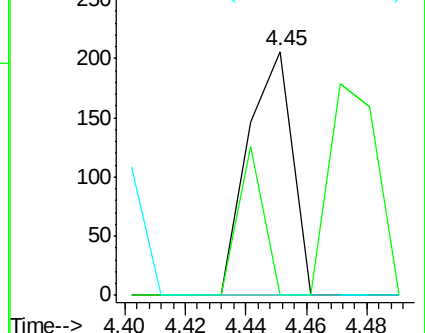
192 0.0 13.7 20.5#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 245.368 ug/l

RT: 4.60 min Scan# 412

Delta R.T. 0.09 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

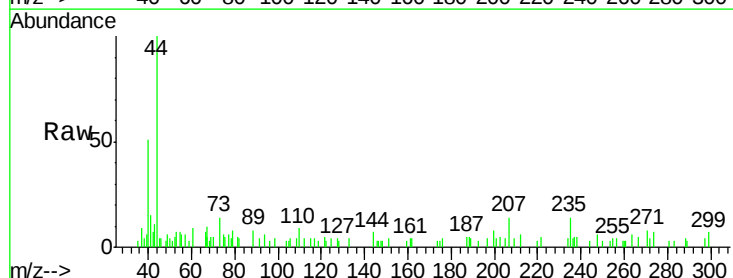
Tgt Ion: 75 Resp: 724

Ion Ratio Lower Upper

75 100

110 0.0 17.3 51.7#

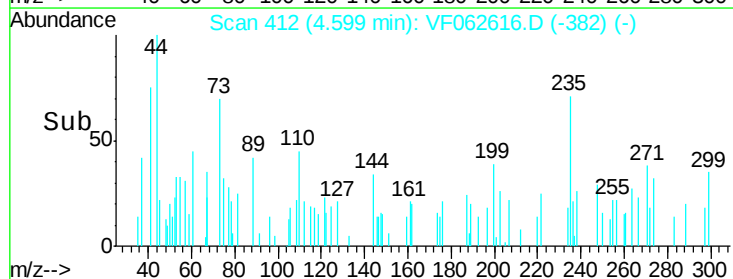
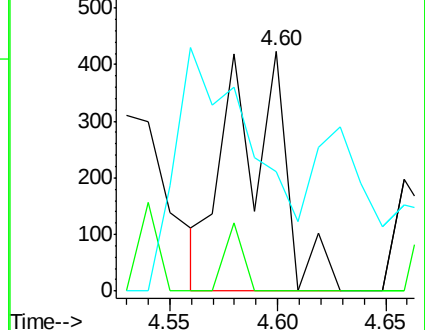
77 49.8 26.4 39.6#

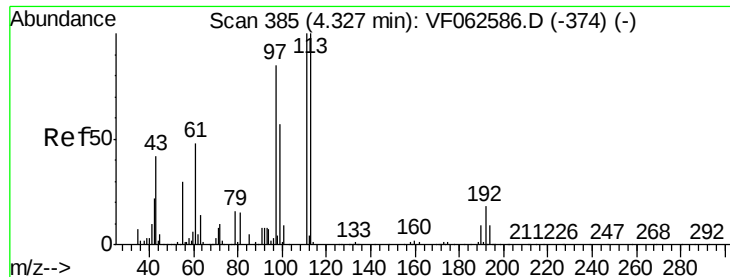


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

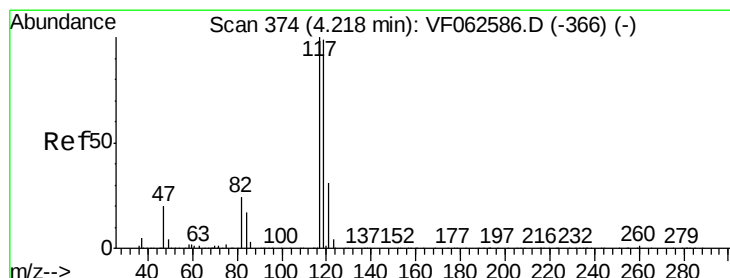
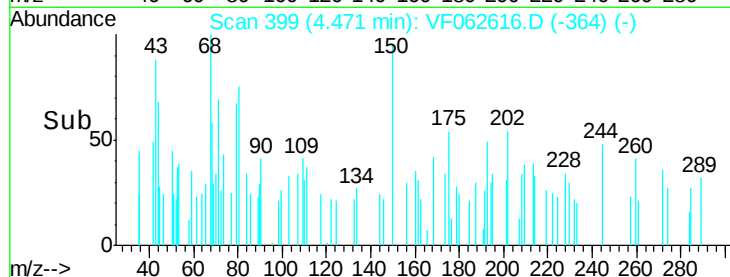
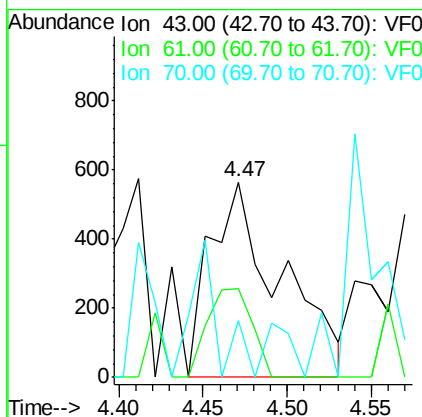
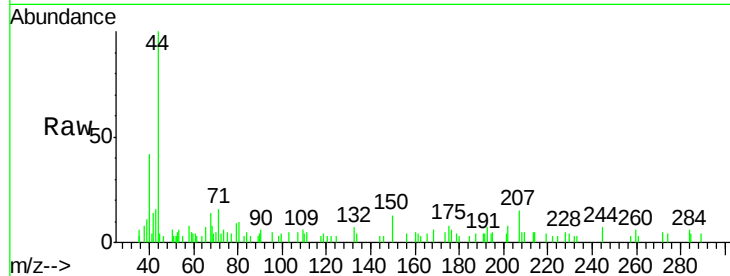




#37  
Ethyl Acetate  
Concen: 1356.655 ug/l  
RT: 4.47 min Scan# 399  
Delta R.T. 0.14 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

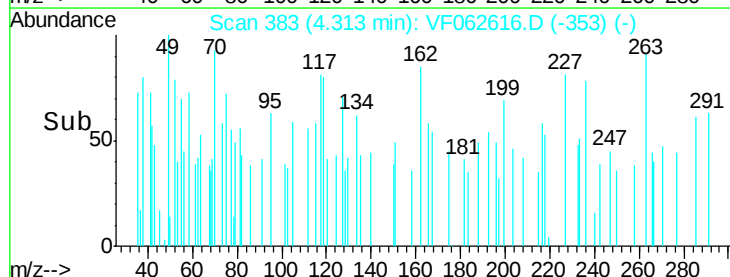
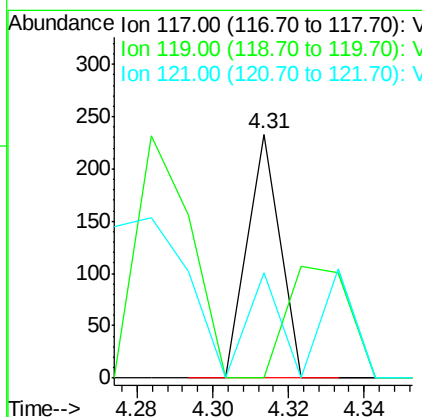
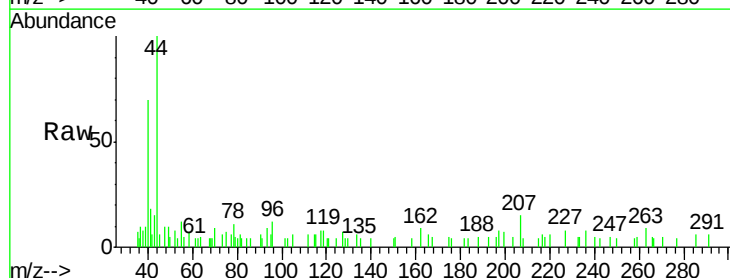
Instrument :  
MSVOA\_F  
ClientSampleId :  
11-B2

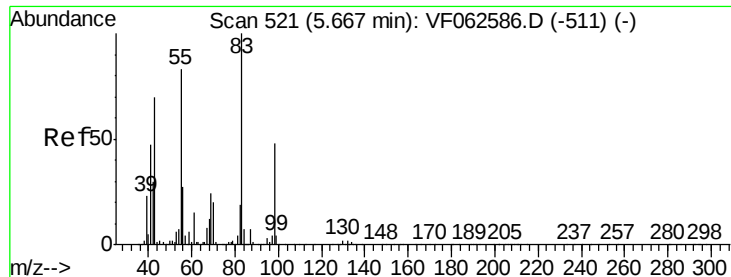
Tot Ion: 43 Resp: 1645  
Ion Ratio Lower Upper  
43 100  
61 45.4 88.6 132.8#  
70 29.0 8.3 12.5#



#38  
Carbon Tetrachloride  
Concen: 57.013 ug/l  
RT: 4.31 min Scan# 383  
Delta R.T. 0.09 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion: 117 Resp: 138  
Ion Ratio Lower Upper  
117 100  
119 0.0 79.0 118.6#  
121 43.3 25.0 37.6#

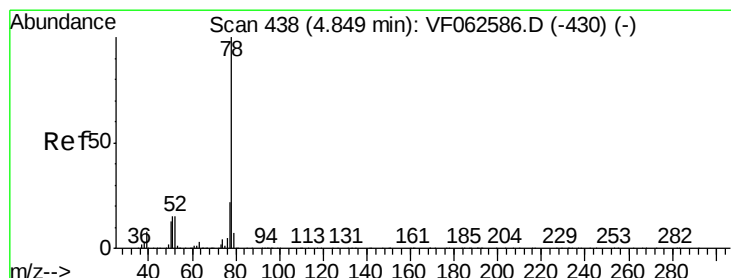
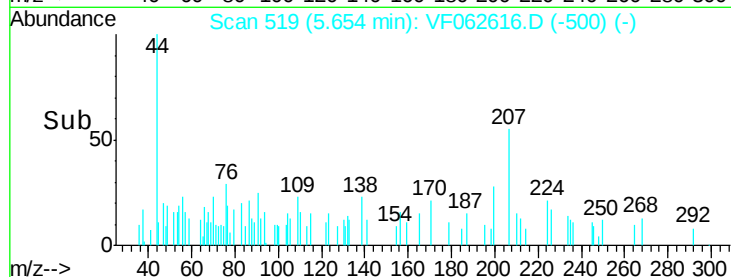
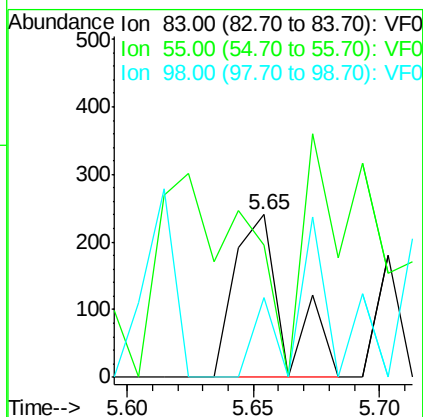
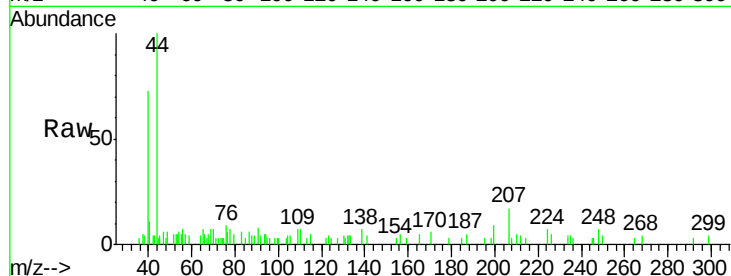




#39  
Methvlcvclohexane  
Concen: 94.942 ug/l  
RT: 5.65 min Scan# 519  
Delta R.T. -0.01 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

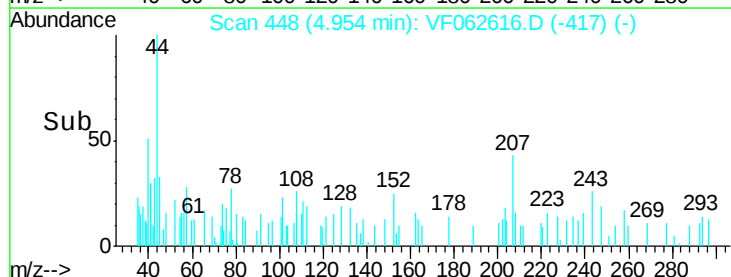
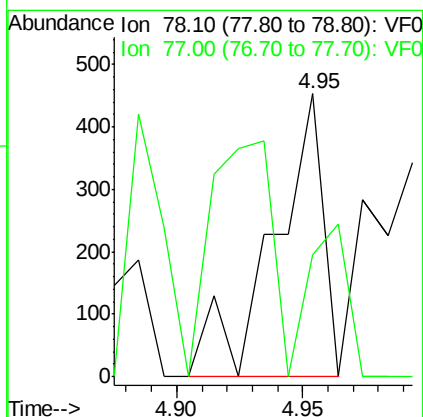
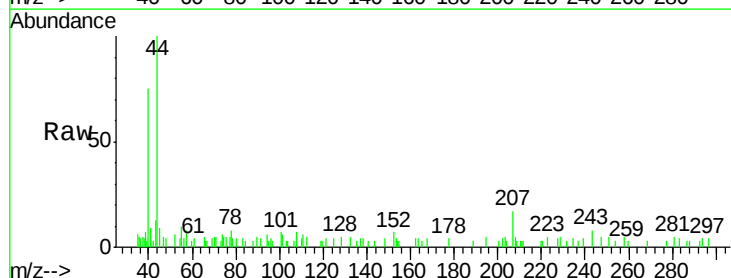
Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

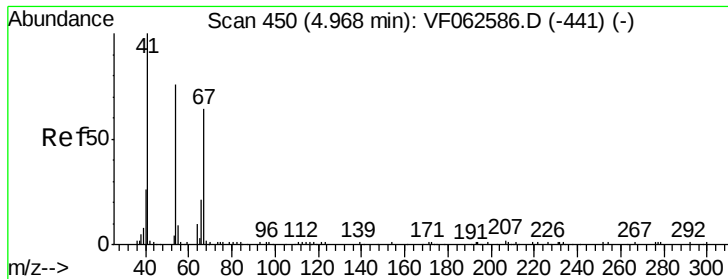
Tot Ion: 83 Resp: 328  
Ion Ratio Lower Upper  
83 100  
55 81.3 66.6 100.0  
98 48.8 38.3 57.5



#40  
Benzene  
Concen: 73.263 ug/l  
RT: 4.95 min Scan# 448  
Delta R.T. 0.10 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion: 78 Resp: 615  
Ion Ratio Lower Upper  
78 100  
77 43.3 17.7 26.5#





#41

Methacrylonitrile

Concen: 817.020 ug/l

RT: 5.09 min Scan# 462

Delta R.T. 0.12 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

11-B2

Tot Ion: 41 Resp: 561

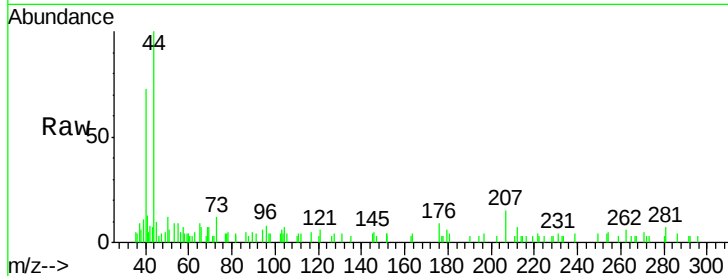
Ion Ratio Lower Upper

41 100

39 64.0 40.8 61.2#

67 0.0 50.2 75.2#

52 0.0 36.8 55.2#

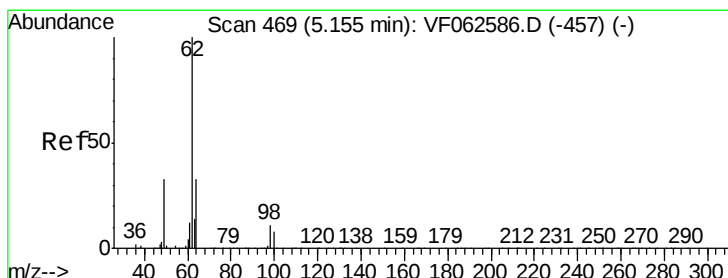
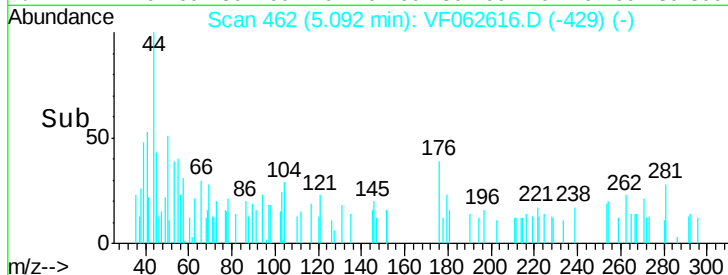
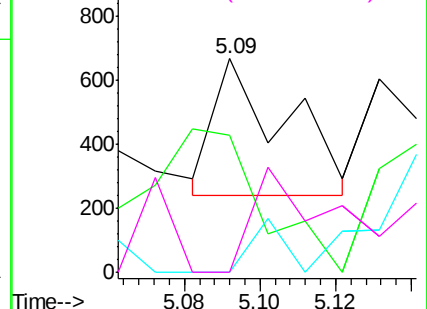


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 152.134 ug/l

RT: 5.27 min Scan# 480

Delta R.T. 0.11 min

Lab File: VF062616.D

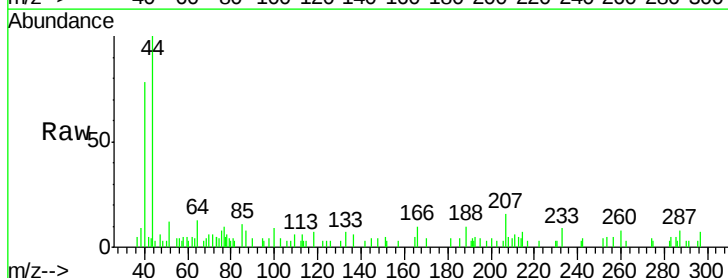
Acq: 15 May 2019 18:41

Tgt Ion: 62 Resp: 271

Ion Ratio Lower Upper

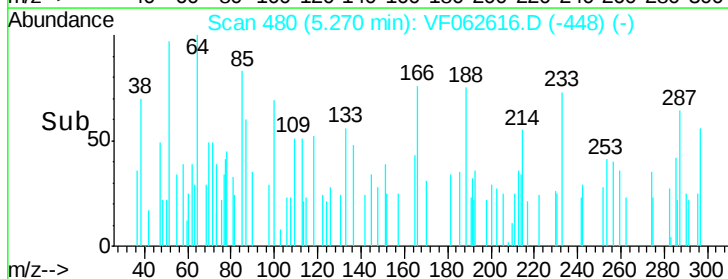
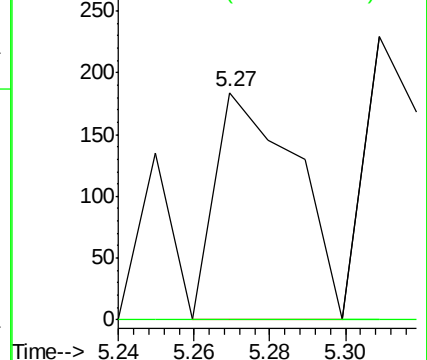
62 100

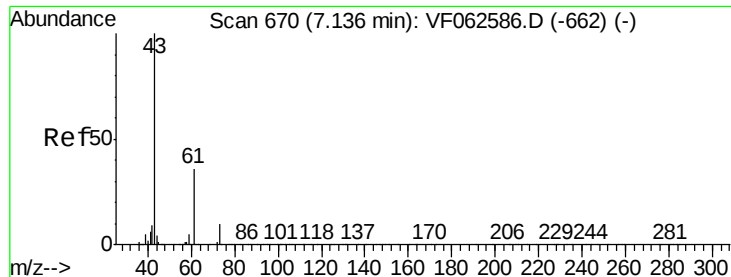
98 0.0 0.0 22.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



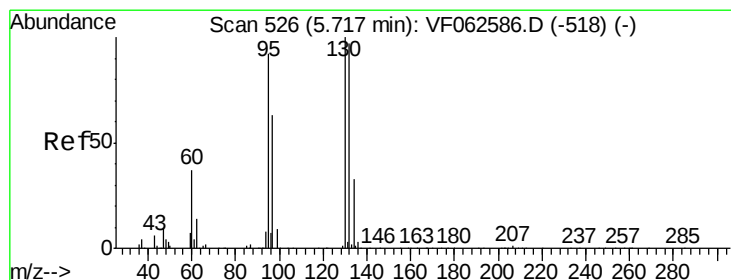
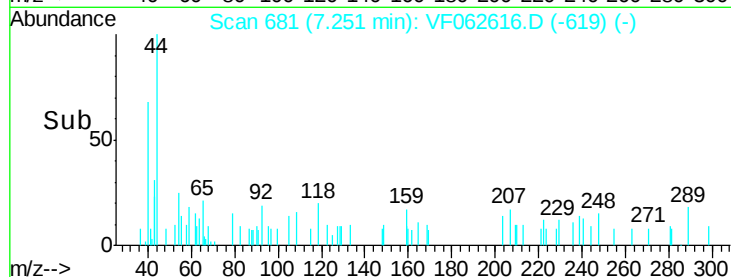
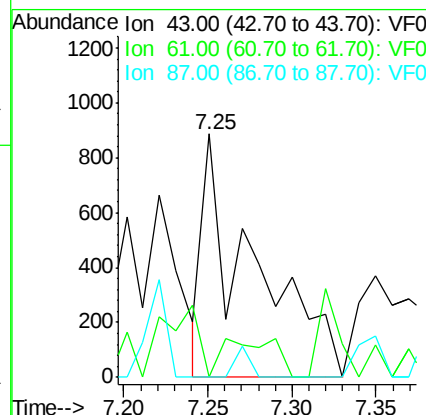
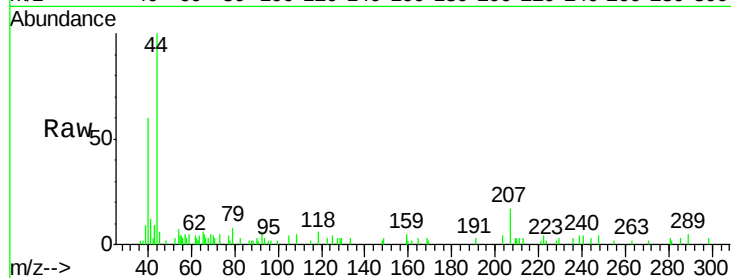


#43

Isopropyl Acetate  
 Concen: 1285.854 ug/l  
 RT: 7.25 min Scan# 681  
 Delta R.T. 0.11 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 11-B2

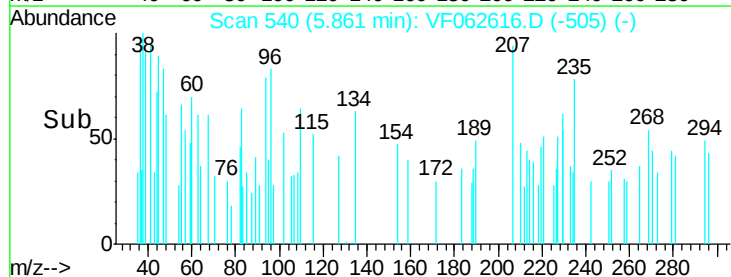
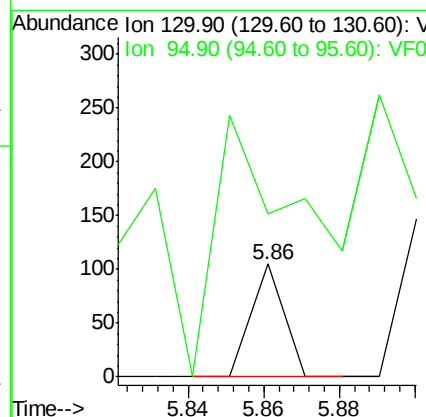
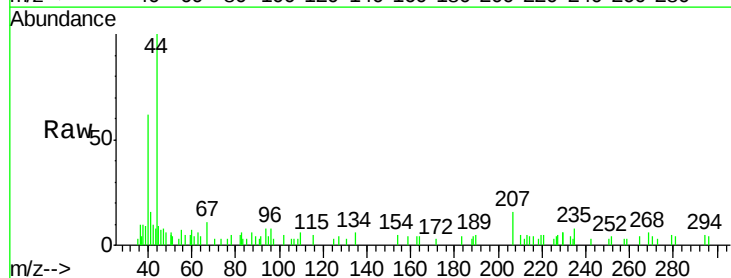
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 28.5  | 42.7# |
| 87      | 11.5  | 0.4   | 0.6#  |

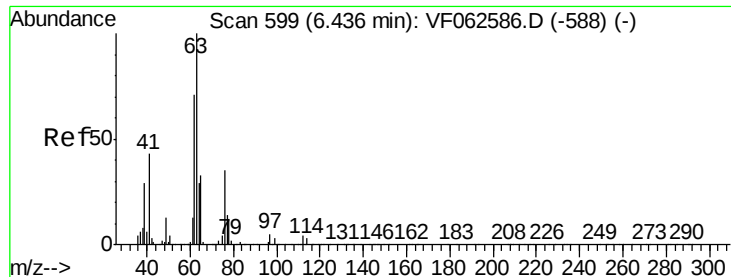


#44

Trichloroethene  
 Concen: 27.349 ug/l  
 RT: 5.86 min Scan# 540  
 Delta R.T. 0.14 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 144.8 | 0.0   | 185.0 |





#45

1,2-Dichloropropane

Concen: 69.098 ug/l

RT: 6.60 min Scan# 615

Delta R.T. 0.16 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

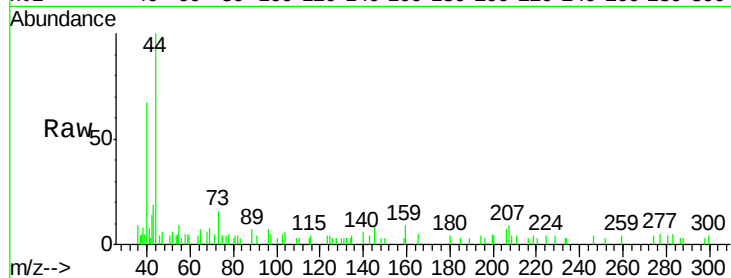
11-B2

Tot Ion: 63 Resp: 146

Ion Ratio Lower Upper

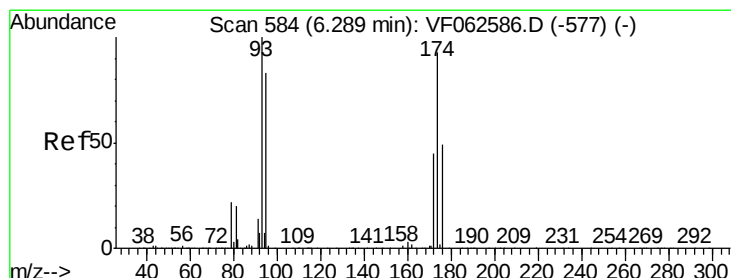
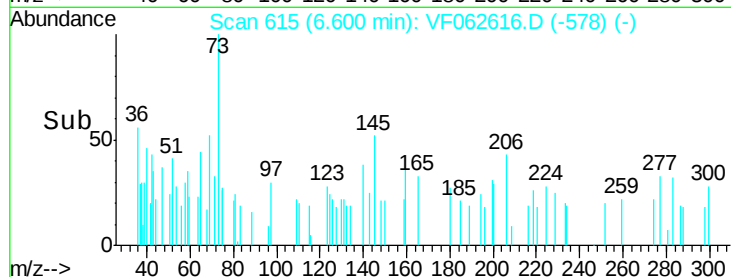
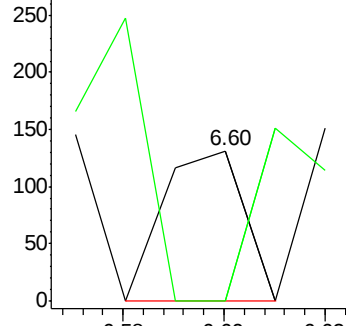
63 100

65 0.0 26.2 39.4#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 252.260 ug/l

RT: 6.43 min Scan# 598

Delta R.T. 0.14 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

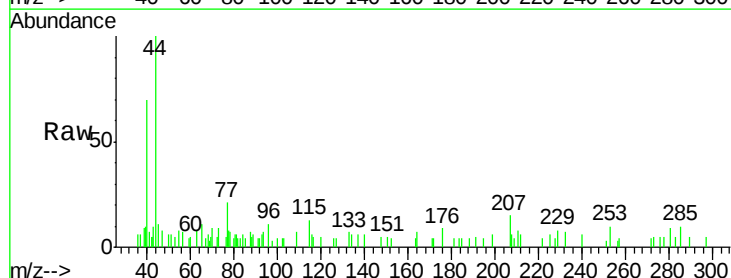
Tgt Ion: 93 Resp: 298

Ion Ratio Lower Upper

93 100

95 0.0 66.9 100.3#

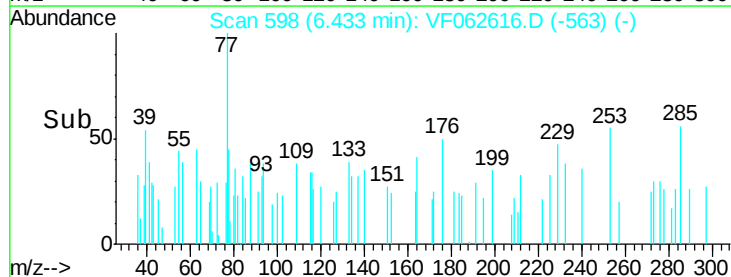
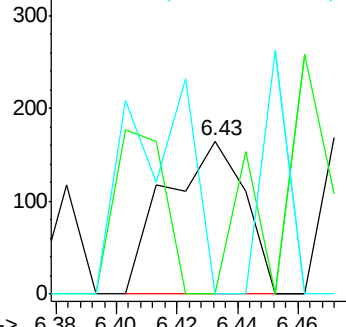
174 0.0 74.6 112.0#

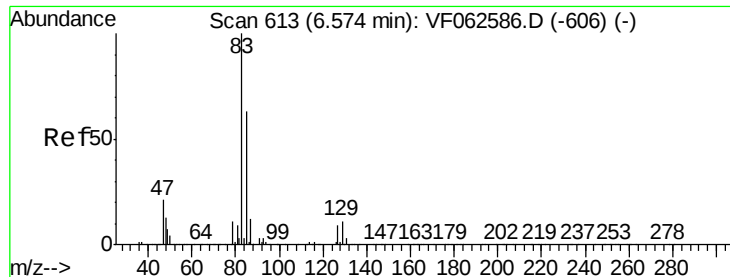


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 352.820 ug/l

RT: 6.72 min Scan# 627

Delta R.T. 0.14 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

11-B2

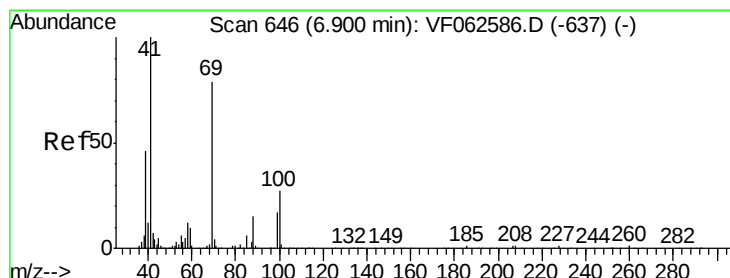
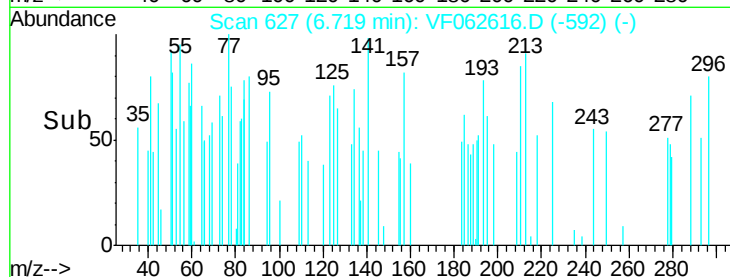
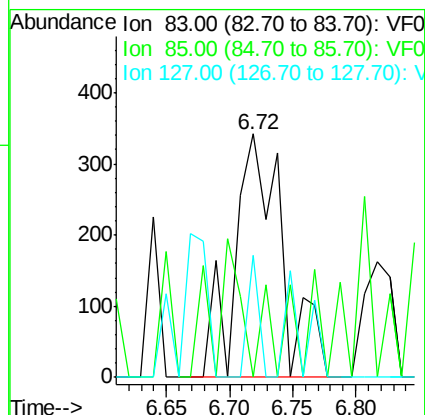
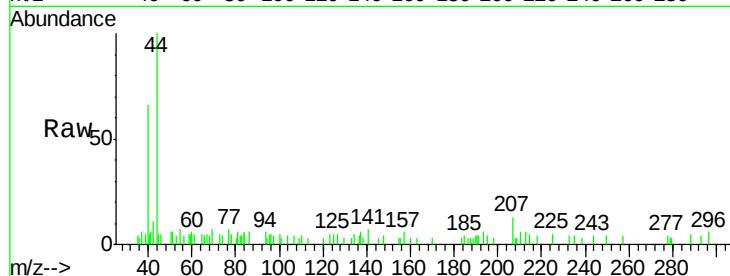
Tot Ion: 83 Resp: 896

Ion Ratio Lower Upper

83 100

85 0.0 50.3 75.5#

127 50.3 7.2 10.8#



#48

Methyl methacrylate

Concen: 3197.134 ug/l

RT: 7.01 min Scan# 657

Delta R.T. 0.11 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

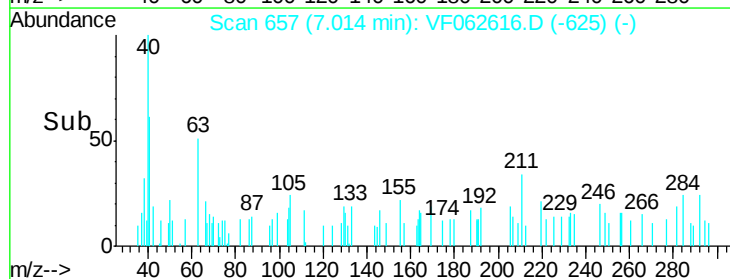
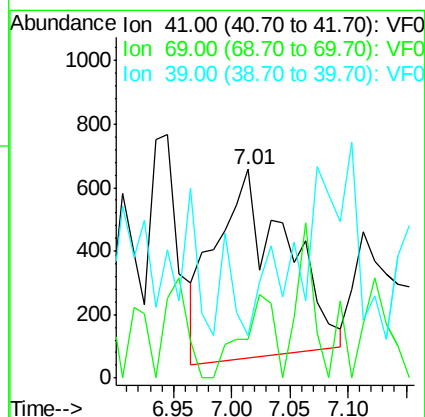
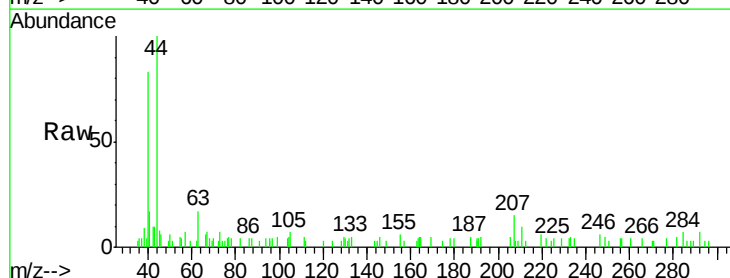
Tgt Ion: 41 Resp: 2511

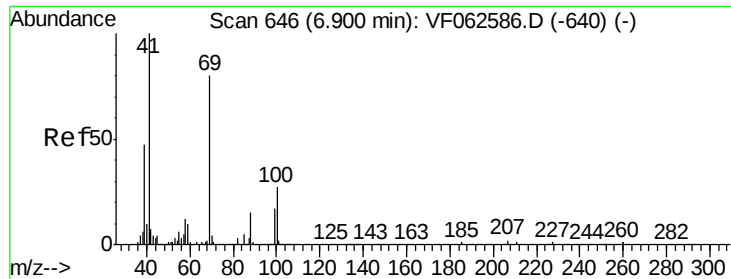
Ion Ratio Lower Upper

41 100

69 40.9 63.0 94.6#

39 20.4 37.6 56.4#

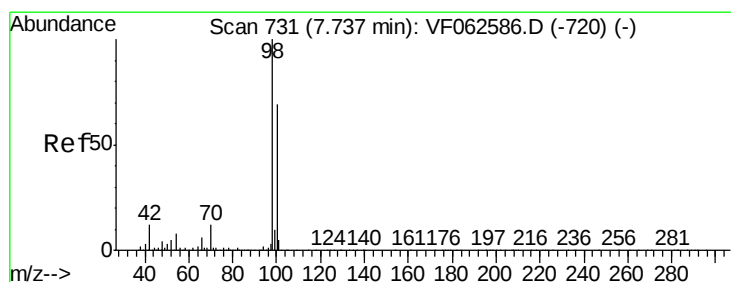
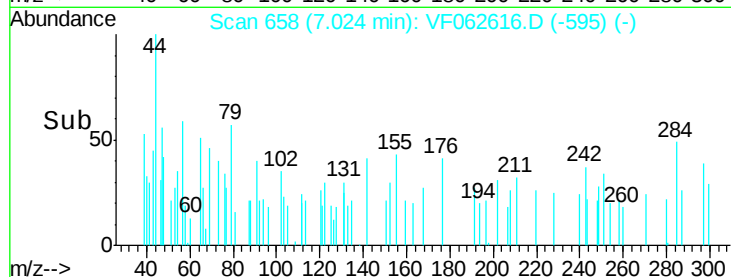
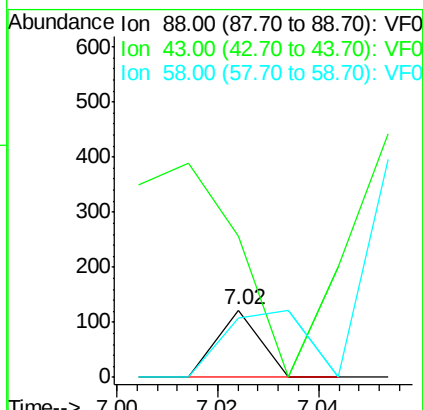
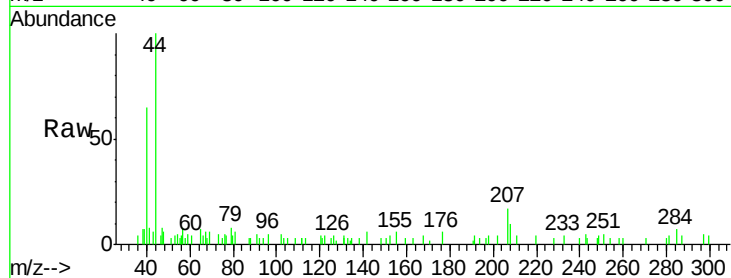




#49  
1,4-Dioxane  
Concen: 6956.745 ug/l  
RT: 7.02 min Scan# 658  
Delta R.T. 0.12 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

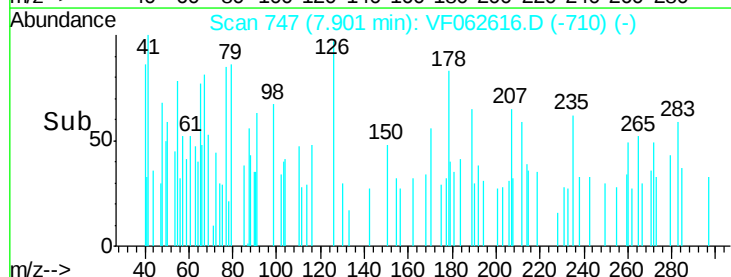
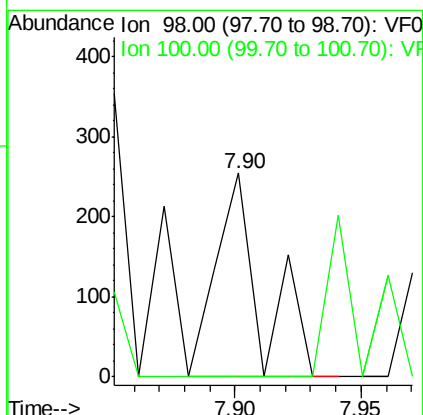
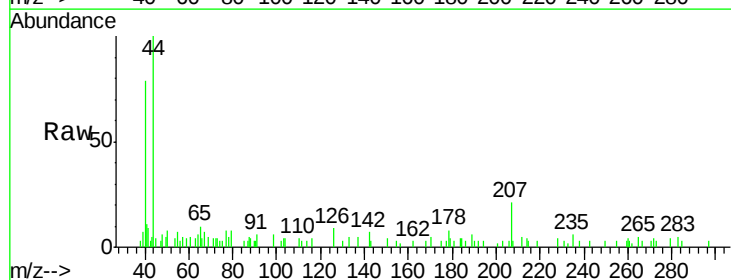
Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

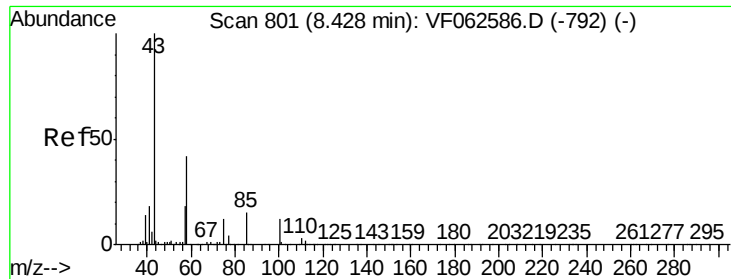
Tot Ion: 88 Resp: 72  
Ion Ratio Lower Upper  
88 100  
43 210.7 28.8 43.2#  
58 88.5 60.6 90.8



#50  
Toluene-d8  
Concen: 53.340 ug/l  
RT: 7.90 min Scan# 747  
Delta R.T. 0.16 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion: 98 Resp: 319  
Ion Ratio Lower Upper  
98 100  
100 0.0 55.4 83.0#





#51

4-Methyl-2-Pentanone

Concen: 455.603 ug/l

RT: 8.56 min Scan# 814

Delta R.T. 0.13 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

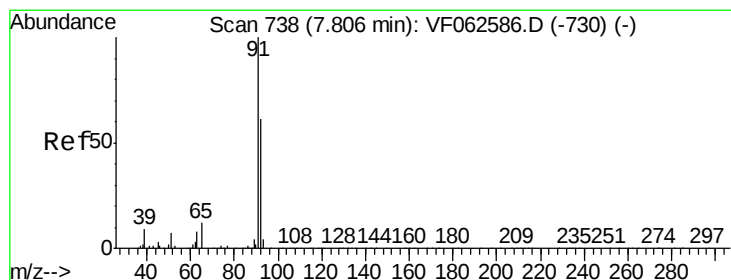
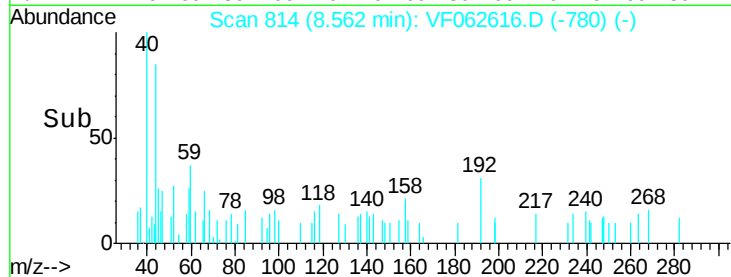
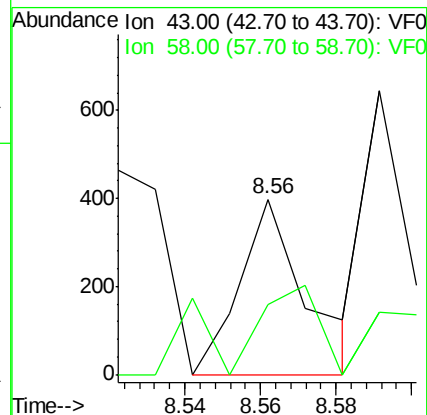
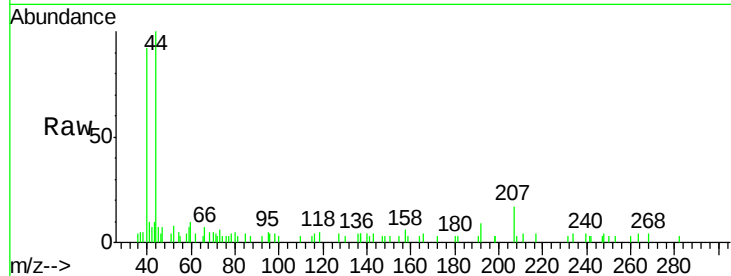
11-B2

Tot Ion: 43.00 Resp: 479

Ion Ratio Lower Upper

43 100

58 40.2 33.6 50.4



#52

Toluene

Concen: 23.257 ug/l

RT: 7.96 min Scan# 753

Delta R.T. 0.15 min

Lab File: VF062616.D

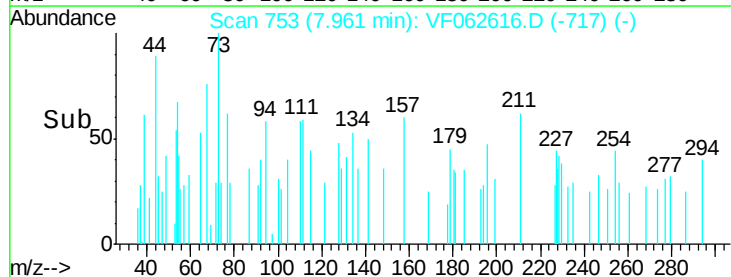
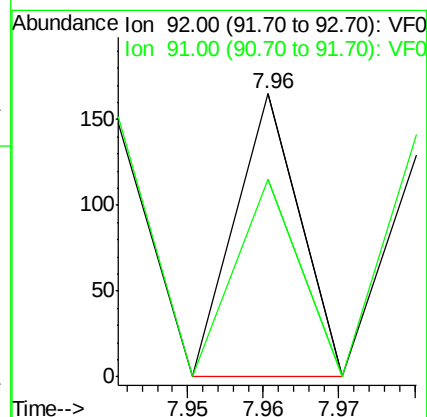
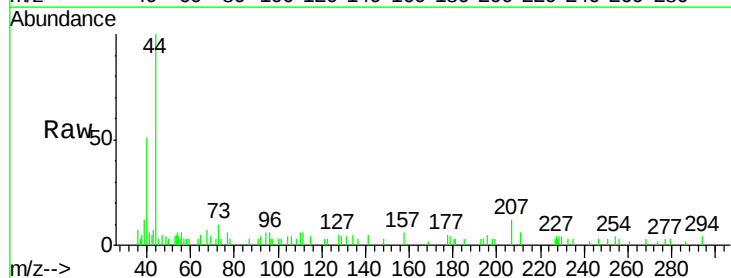
Acq: 15 May 2019 18:41

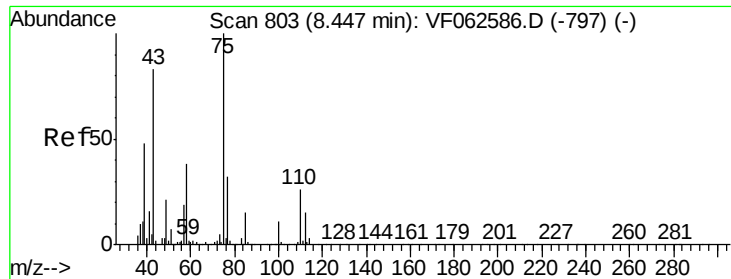
Tgt Ion: 92 Resp: 98

Ion Ratio Lower Upper

92 100

91 69.7 131.0 196.4#

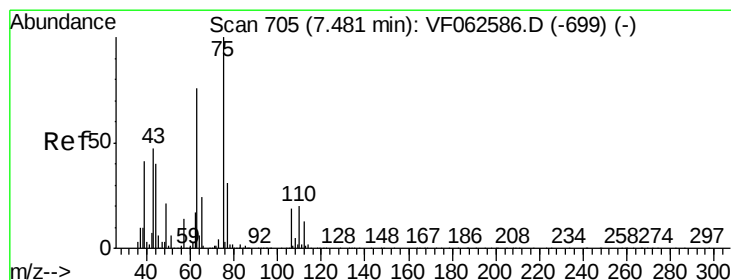
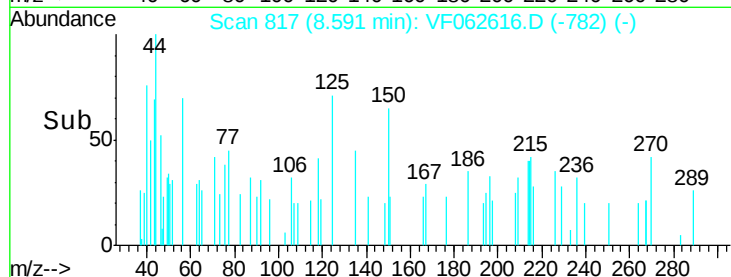
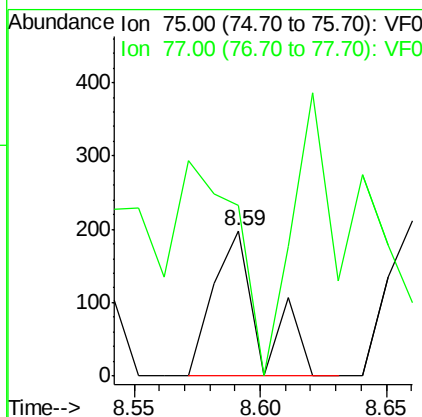
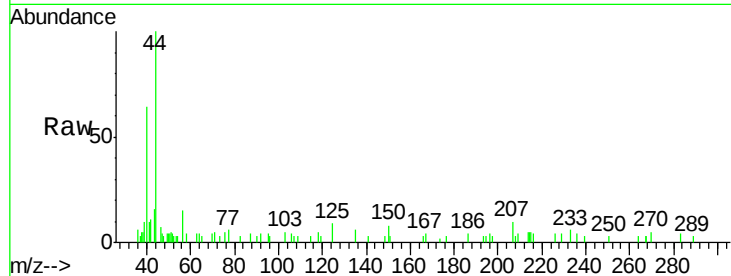




#53  
 t-1,3-Dichloropropene  
 Concen: 126.603 ug/l  
 RT: 8.59 min Scan# 817  
 Delta R.T. 0.14 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

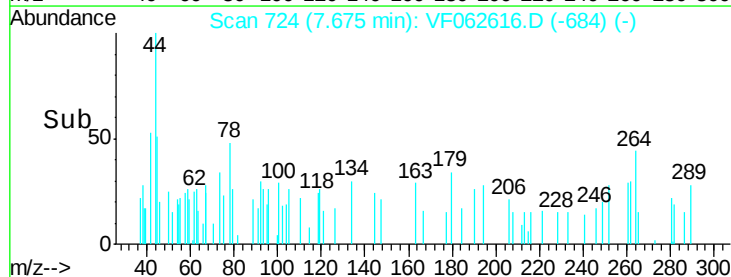
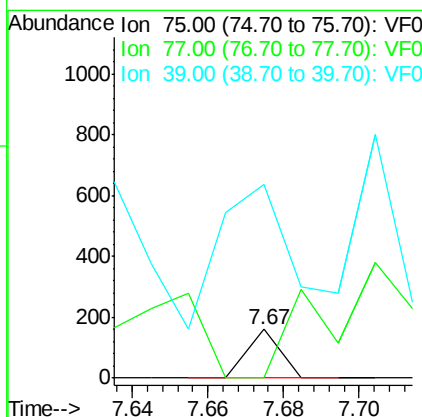
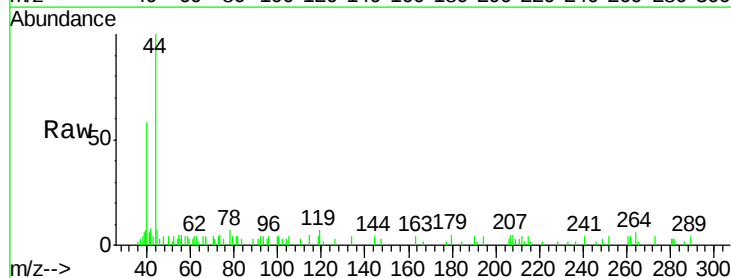
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 11-B2

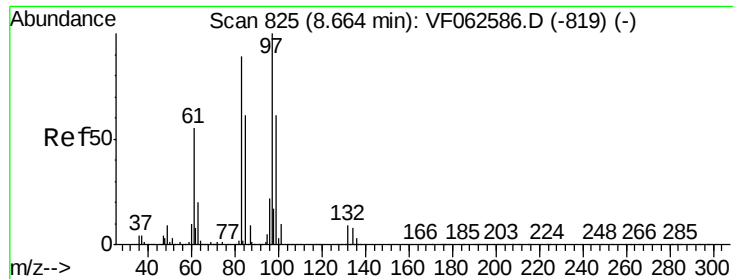
Tot Ion: 75 Resp: 254  
 Ion Ratio Lower Upper  
 75 100  
 77 117.7 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 33.508 ug/l  
 RT: 7.67 min Scan# 724  
 Delta R.T. 0.19 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

Tgt Ion: 75 Resp: 95  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.0 37.6#  
 39 396.3 32.8 49.2#





#55

1,1,2-Trichloroethane

Concen: 370.934 ug/l

RT: 8.81 min Scan# 839

Delta R.T. 0.14 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

11-B2

Tot Ion: 97 Resp: 468

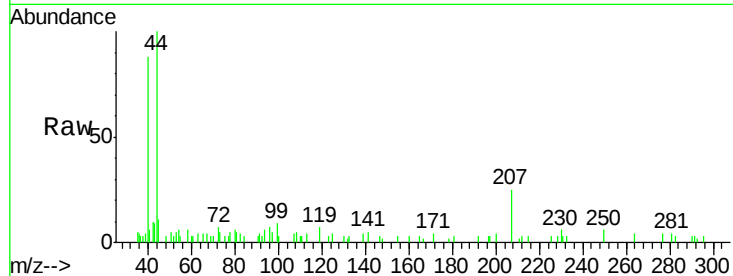
Ion Ratio Lower Upper

97 100

83 0.0 71.3 106.9#

85 0.0 48.9 73.3#

99 173.5 48.4 72.6#

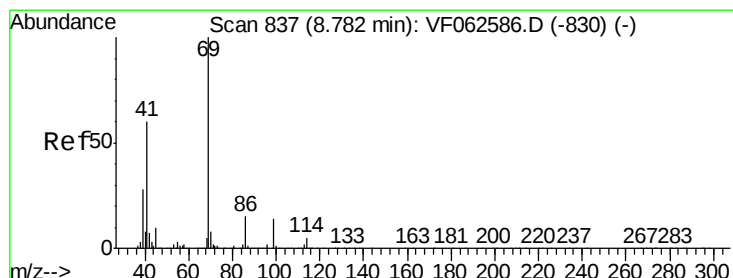
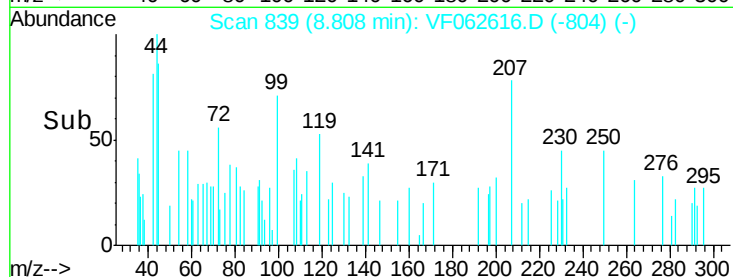
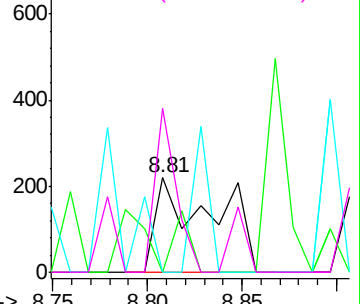


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 412.927 ug/l

RT: 8.99 min Scan# 857

Delta R.T. 0.20 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

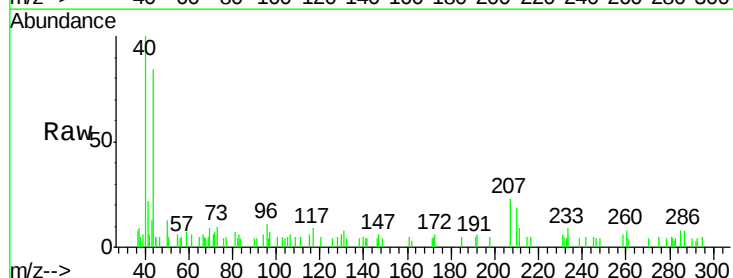
Tgt Ion: 69 Resp: 571

Ion Ratio Lower Upper

69 100

41 158.6 48.1 72.1#

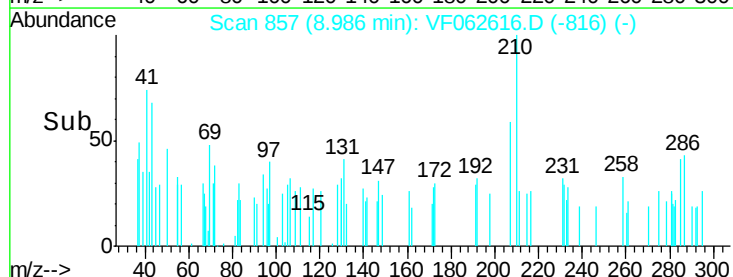
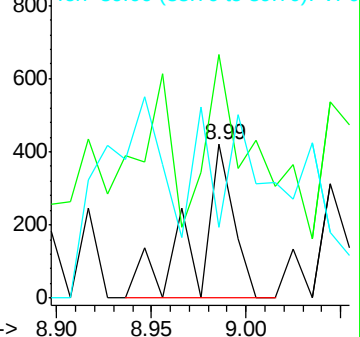
39 46.0 22.5 33.7#

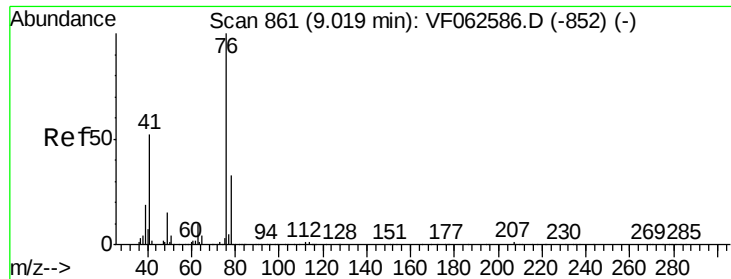


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 84.518 ug/l

RT: 9.19 min Scan# 878

Delta R.T. 0.17 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

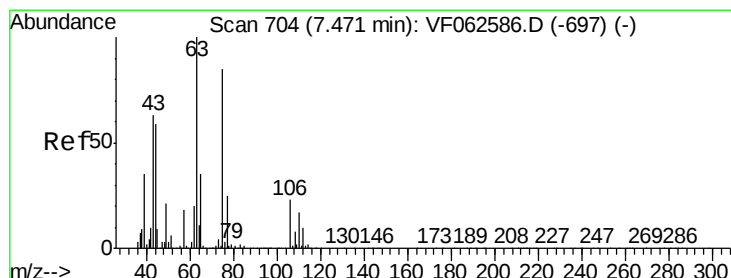
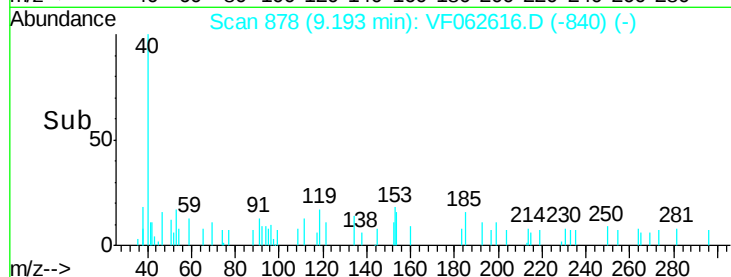
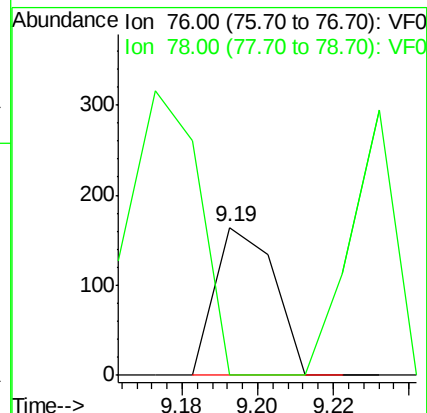
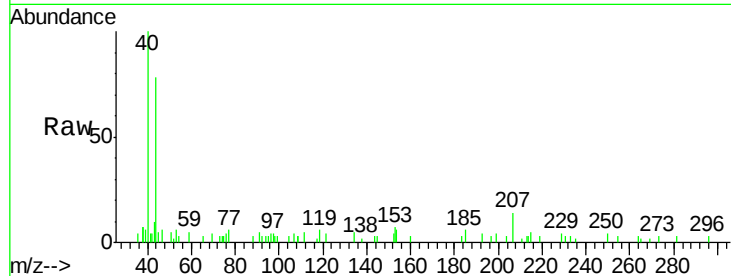
11-B2

Tot Ion: 76 Resp: 176

Ion Ratio Lower Upper

76 100

78 0.0 26.4 39.6#



#58

2-Chloroethyl Vinyl ether

Concen: 697.997 ug/l

RT: 7.65 min Scan# 722

Delta R.T. 0.18 min

Lab File: VF062616.D

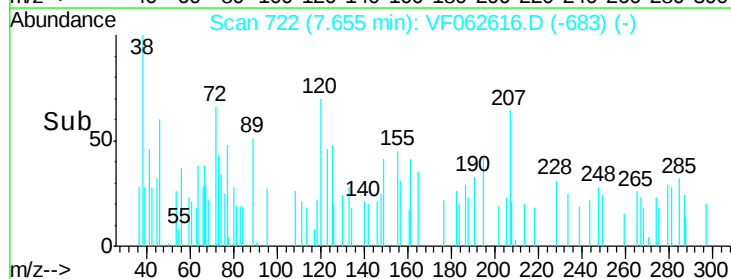
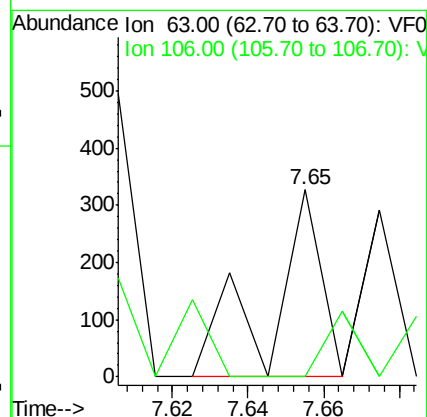
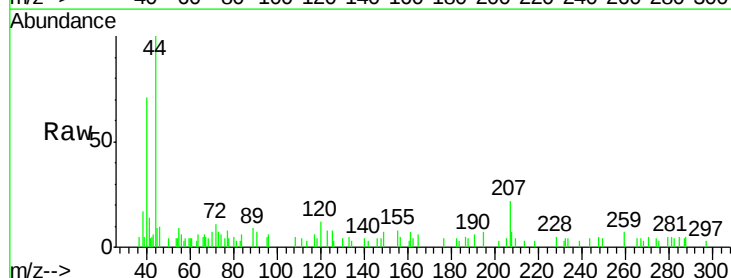
Acq: 15 May 2019 18:41

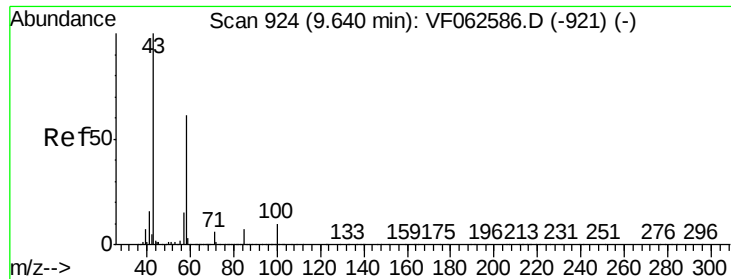
Tgt Ion: 63 Resp: 302

Ion Ratio Lower Upper

63 100

106 0.0 18.0 27.0#

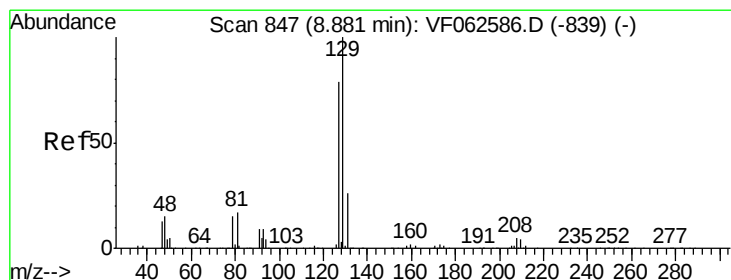
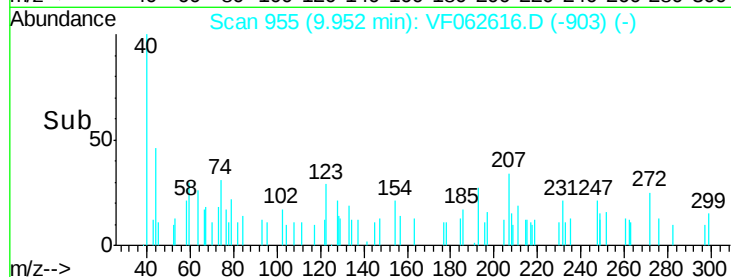
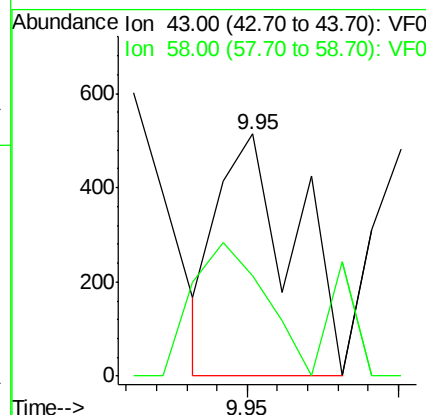
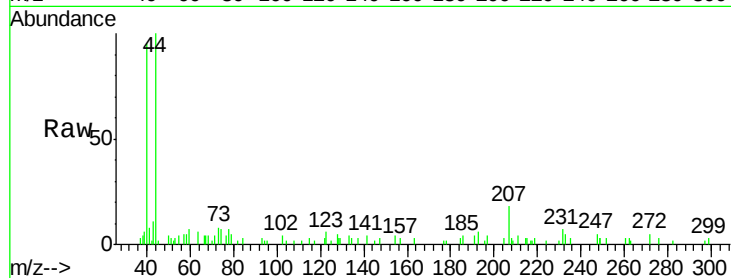




#59  
2-Hexanone  
Concen: 1303.355 ug/l  
RT: 9.95 min Scan# 955  
Delta R.T. 0.31 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

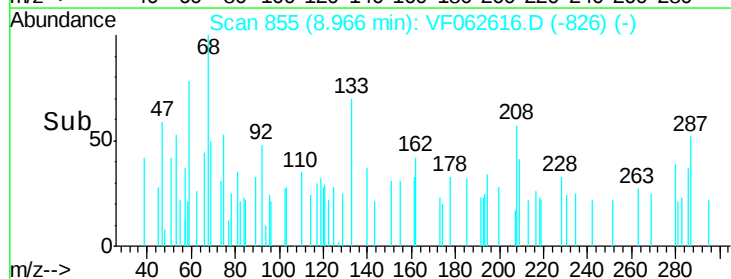
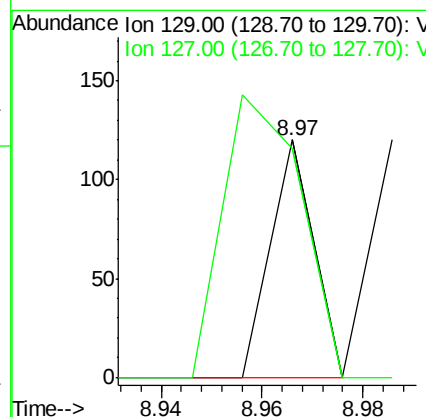
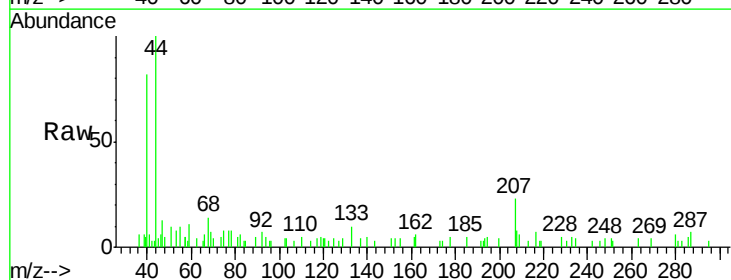
Instrument :  
MSVOA\_F  
ClientSampleId :  
11-B2

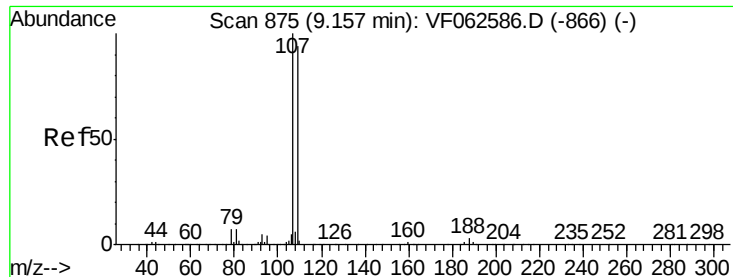
Tot Ion: 43 Resp: 905  
Ion Ratio Lower Upper  
43 100  
58 41.6 28.7 86.3



#60  
Dibromochloromethane  
Concen: 44.292 ug/l  
RT: 8.97 min Scan# 855  
Delta R.T. 0.09 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion: 129 Resp: 71  
Ion Ratio Lower Upper  
129 100  
127 96.7 39.3 117.9





#61

1,2-Dibromoethane

Concen: 50.577 ug/l

RT: 9.35 min Scan# 894

Delta R.T. 0.19 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

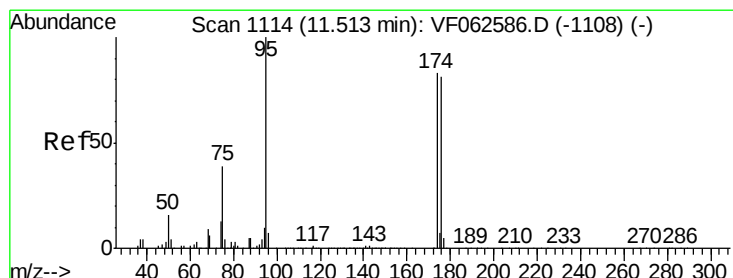
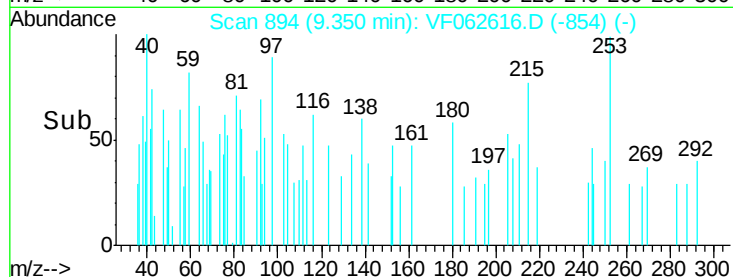
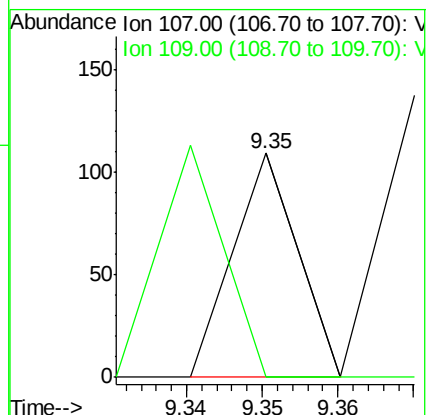
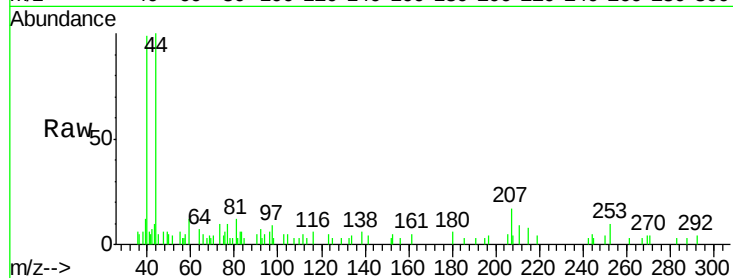
11-B2

Tot Ion:107 Resp: 64

Ion Ratio Lower Upper

107 100

109 0.0 74.9 112.3#



#62

4-Bromofluorobenzene

Concen: 121.610 ug/l

RT: 11.75 min Scan# 1137

Delta R.T. 0.23 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

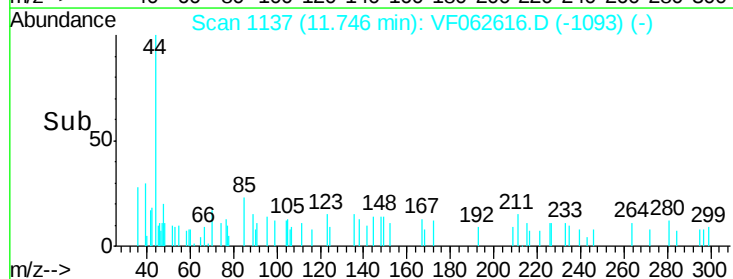
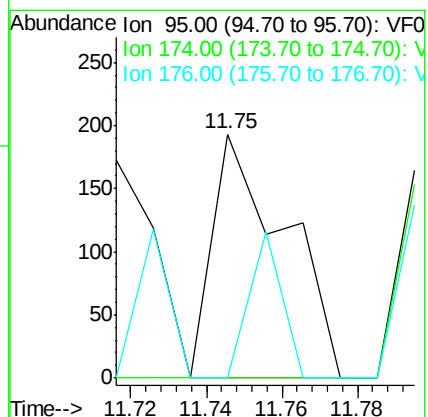
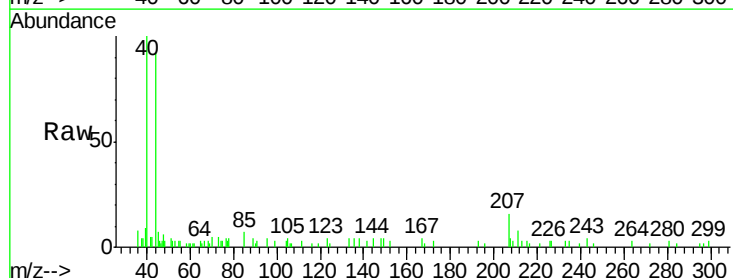
Tgt Ion: 95 Resp: 254

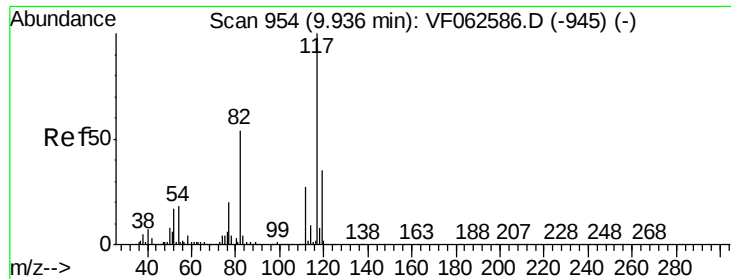
Ion Ratio Lower Upper

95 100

174 0.0 0.0 166.6

176 0.0 0.0 161.8

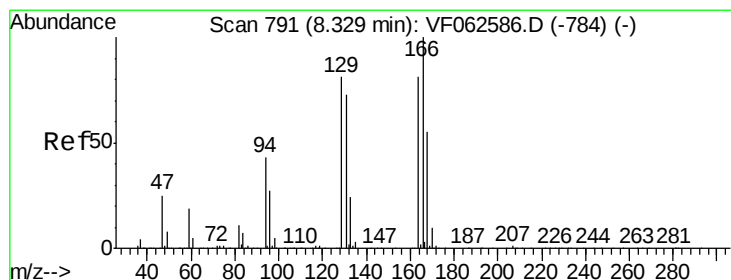
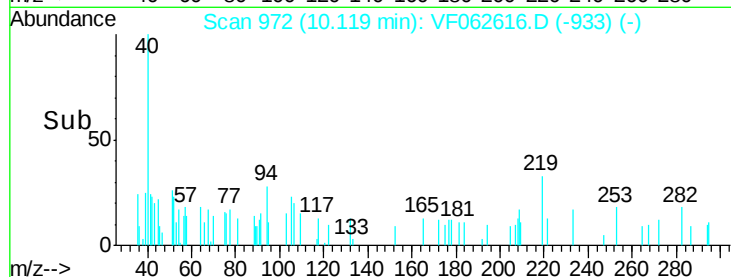
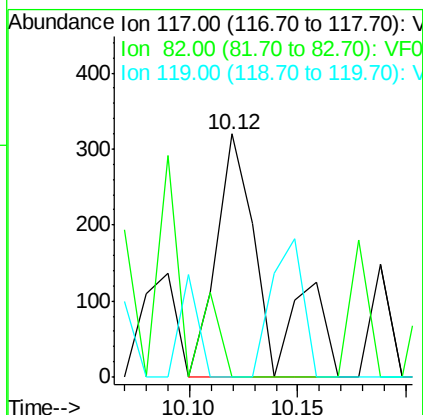
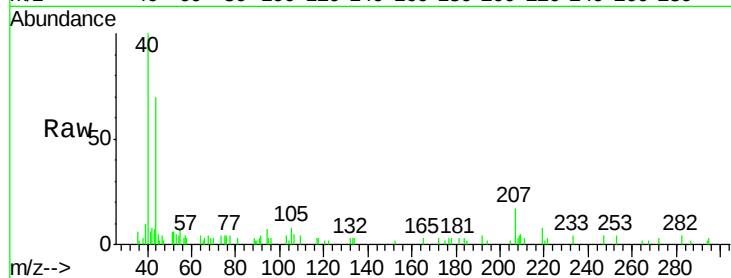




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 972  
Delta R.T. 0.18 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

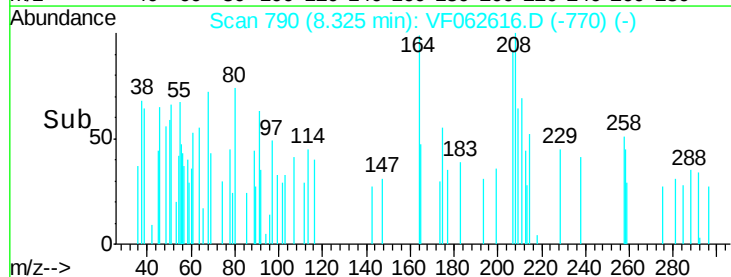
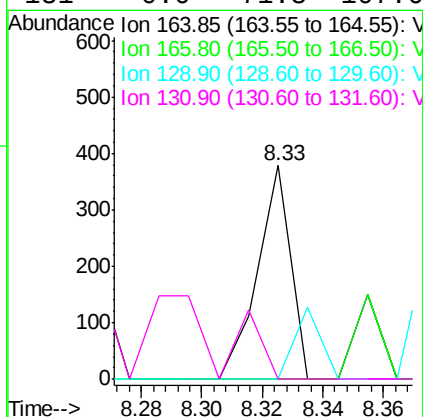
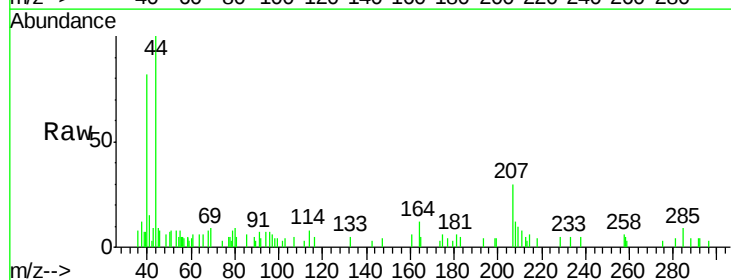
Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

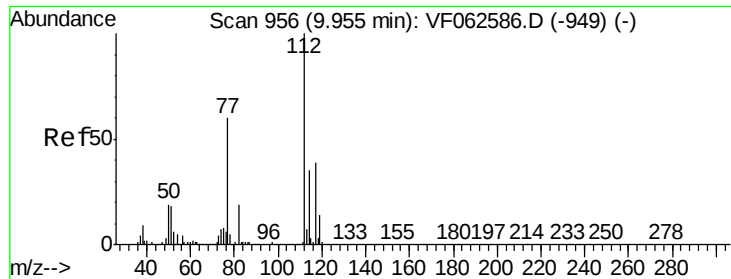
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 0.0   | 43.4  | 65.0# |
| 119     | 0.0   | 27.7  | 41.5# |



#64  
Tetrachloroethene  
Concen: 86.221 ug/l  
RT: 8.33 min Scan# 790  
Delta R.T. -0.00 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

| 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# |

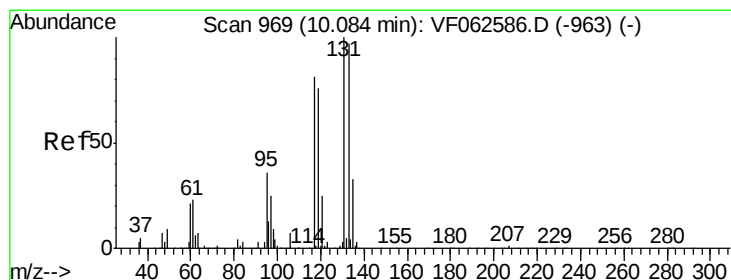
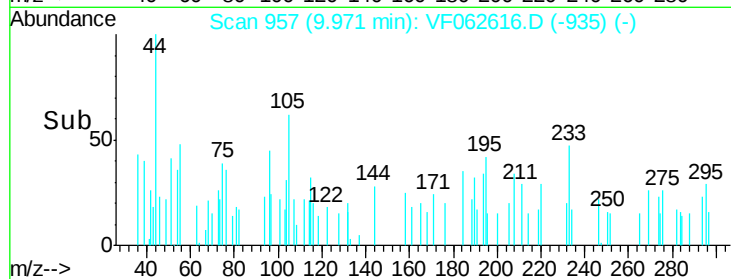
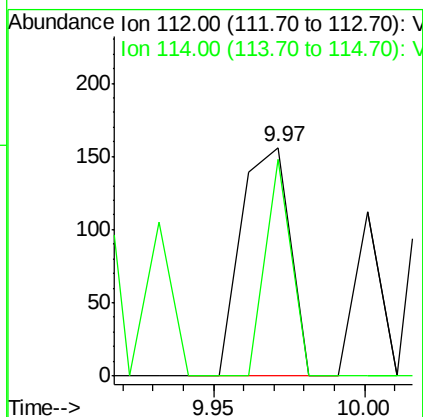
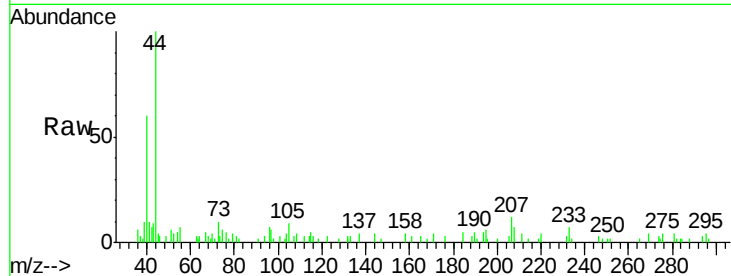




#65  
Chlorobenzene  
Concen: 19.663 ug/l  
RT: 9.97 min Scan# 957  
Delta R.T. 0.02 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

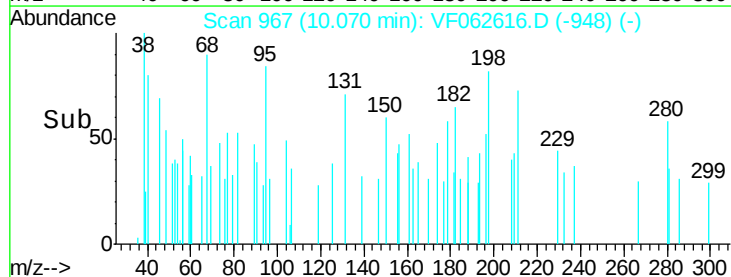
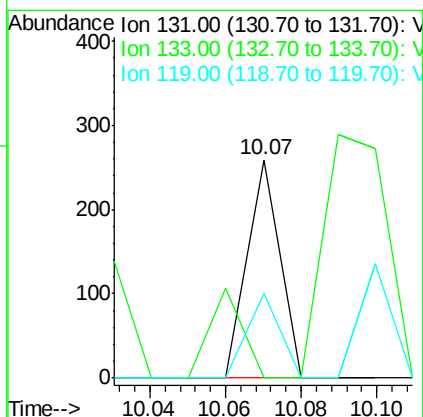
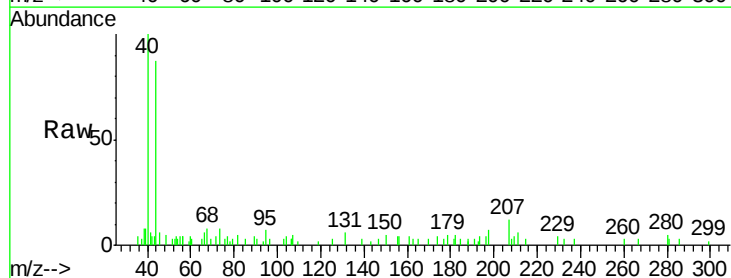
Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

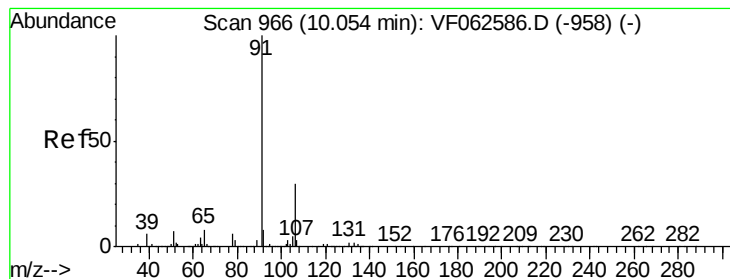
Tot Ion:112 Resp: 174  
Ion Ratio Lower Upper  
112 100  
114 94.9 27.9 41.9#



#66  
1,1,1,2-Tetrachloroethane  
Concen: 42.095 ug/l  
RT: 10.07 min Scan# 967  
Delta R.T. -0.01 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion:131 Resp: 153  
Ion Ratio Lower Upper  
131 100  
133 0.0 48.4 145.3#  
119 38.6 38.5 115.5





#67

Ethyl Benzene

Concen: 19.654 ug/l

RT: 10.05 min Scan# 965

Delta R.T. -0.00 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

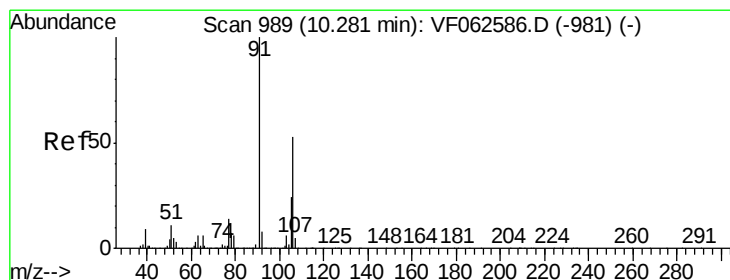
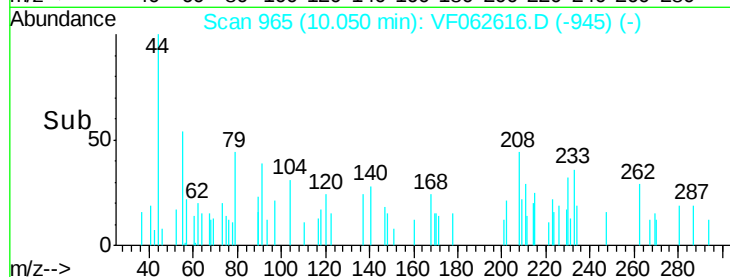
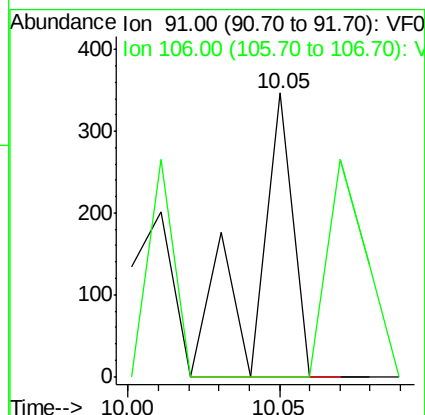
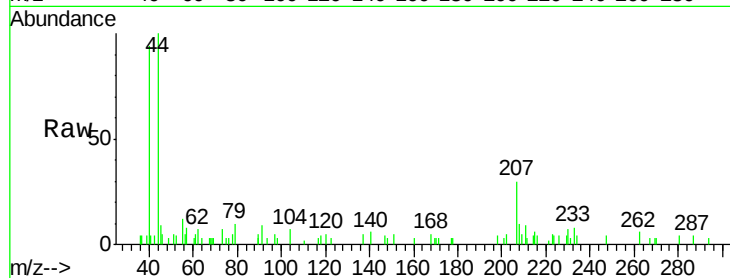
11-B2

Tot Ion: 91 Resp: 309

Ion Ratio Lower Upper

91 100

106 0.0 24.2 36.4#



#68

m/p-Xylenes

Concen: 16.330 ug/l

RT: 10.30 min Scan# 990

Delta R.T. 0.02 min

Lab File: VF062616.D

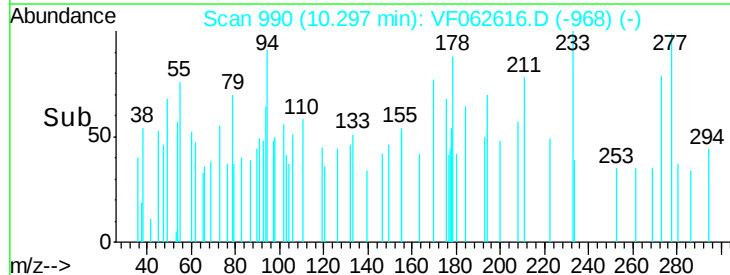
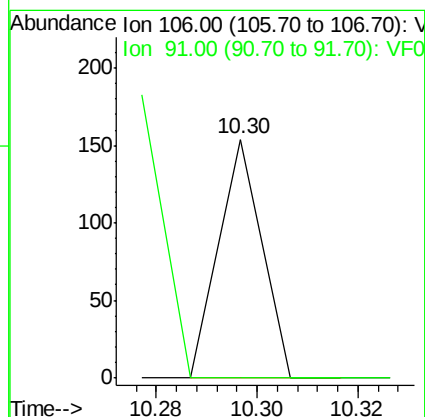
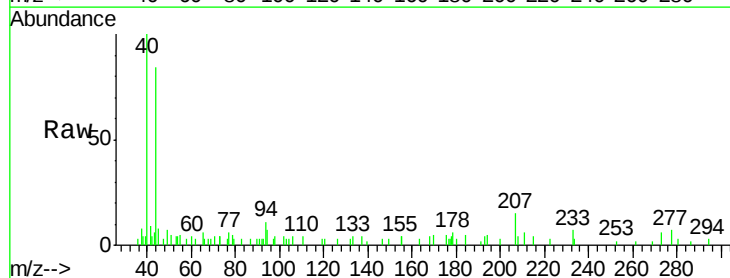
Acq: 15 May 2019 18:41

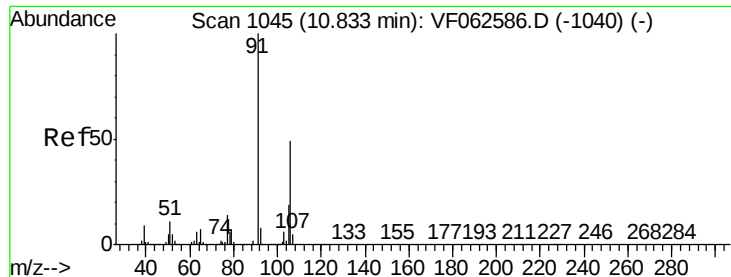
Tgt Ion: 106 Resp: 91

Ion Ratio Lower Upper

106 100

91 0.0 150.5 225.7#

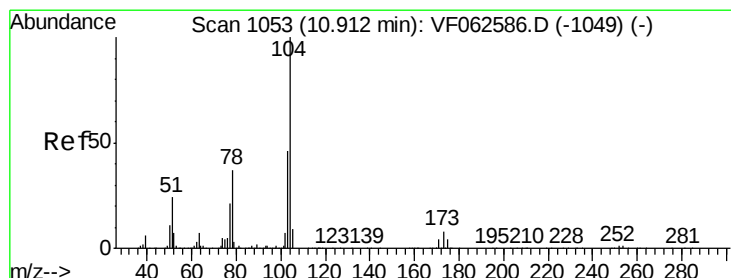
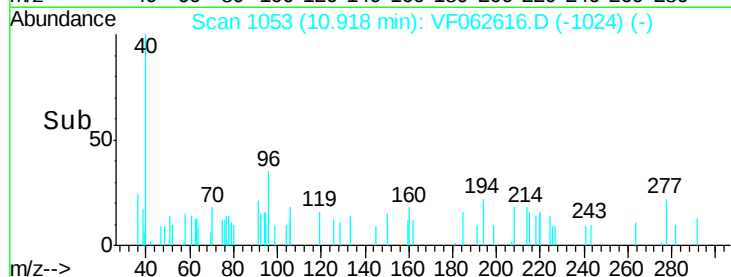
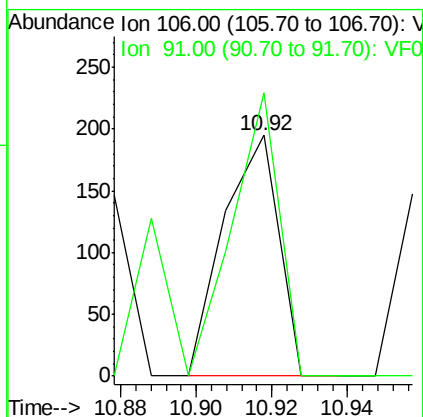
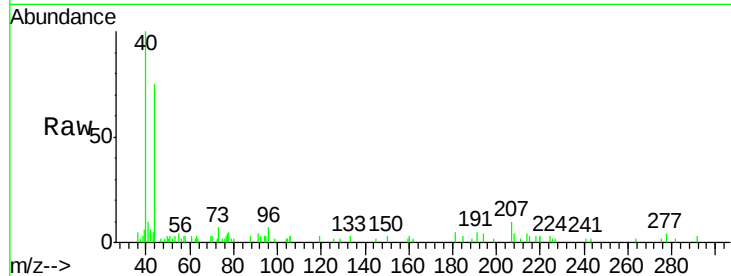




#69  
o-Xylene  
Concen: 33.358 ug/l  
RT: 10.92 min Scan# 1053  
Delta R.T. 0.09 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

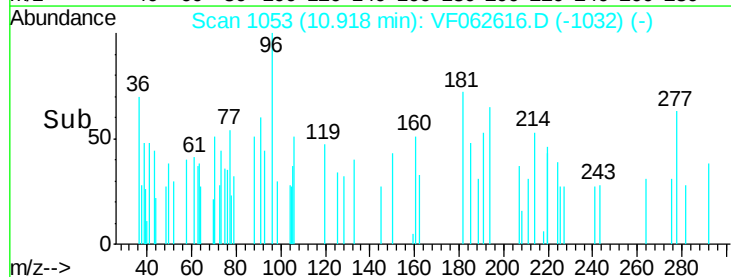
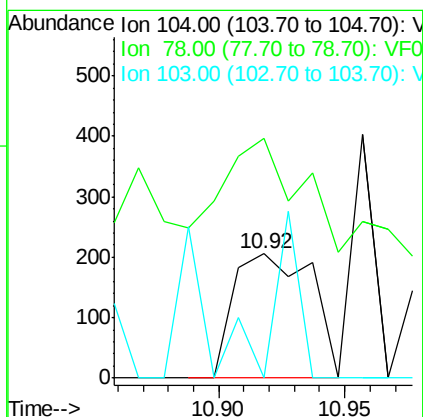
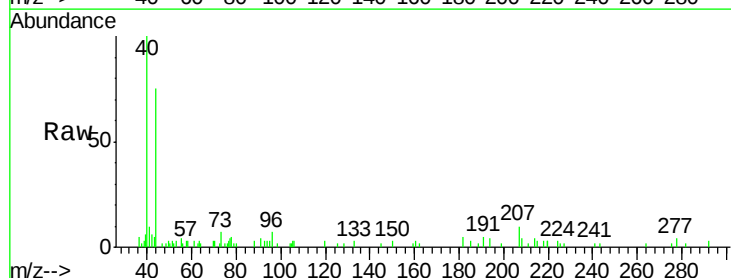
Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

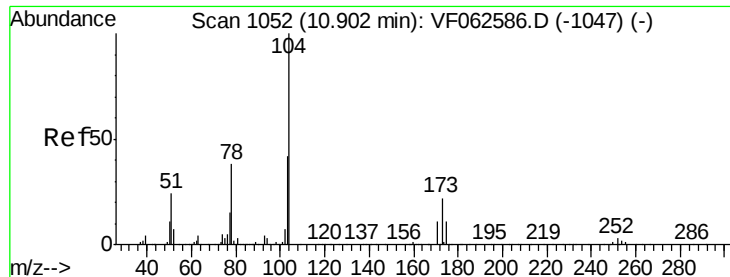
Tot Ion:106 Resp: 195  
Ion Ratio Lower Upper  
106 100  
91 117.4 102.0 305.9



#70  
Styrene  
Concen: 49.761 ug/l  
RT: 10.92 min Scan# 1053  
Delta R.T. 0.01 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion:104 Resp: 442  
Ion Ratio Lower Upper  
104 100  
78 192.7 30.2 45.2#  
103 0.0 37.0 55.6#





#71

Bromoform

Concen: 39.150 ug/l

RT: 10.90 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

11-B2

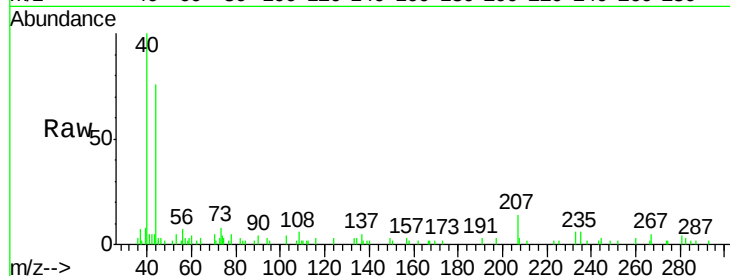
Tot Ion:173 Resp: 67

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

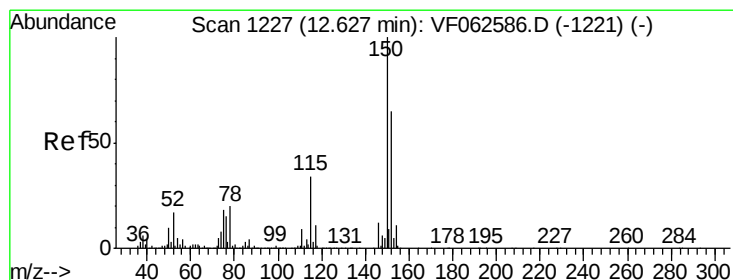
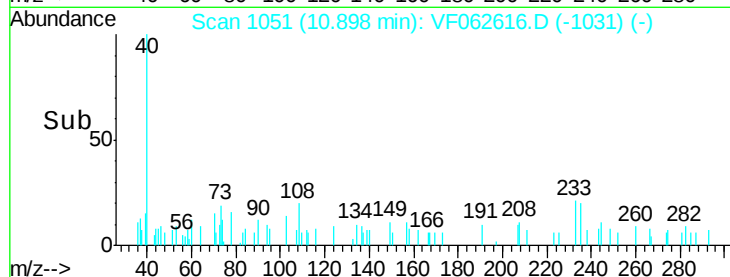
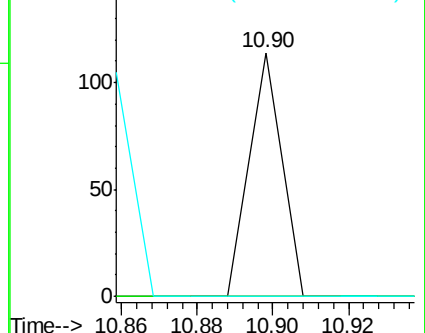
254 0.0 0.0 0.0



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: 12.62 min Scan# 1226

Delta R.T. -0.00 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

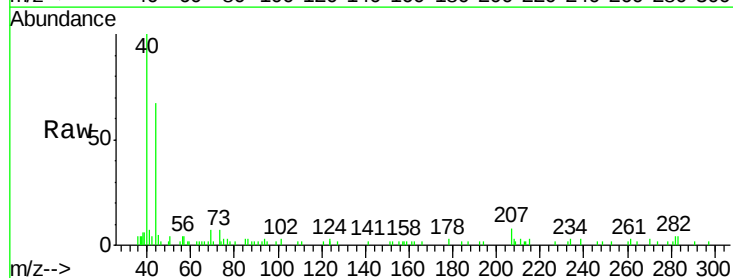
Tgt Ion:152 Resp: 80

Ion Ratio Lower Upper

152 100

115 0.0 26.2 78.6#

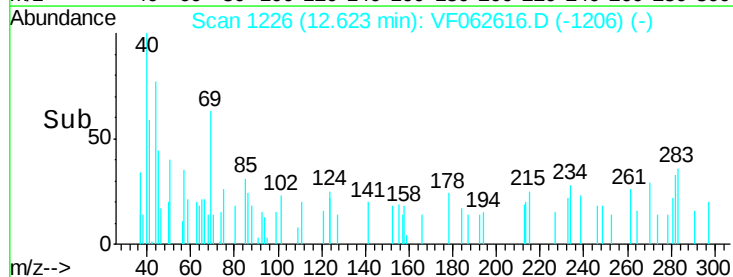
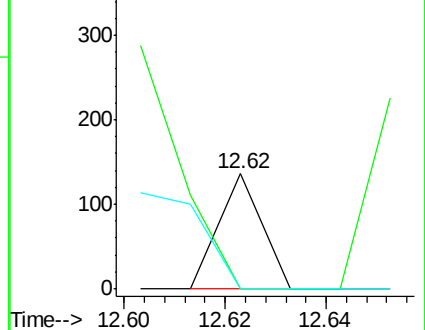
150 0.0 0.0 316.0

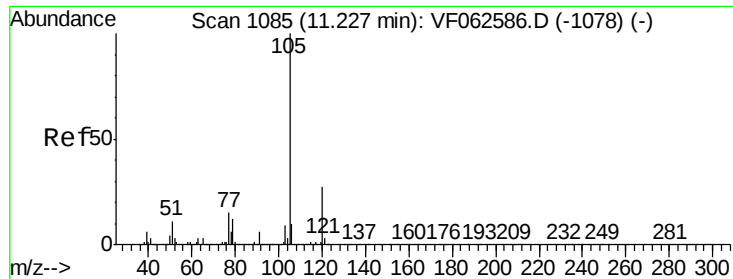


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 51.683 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

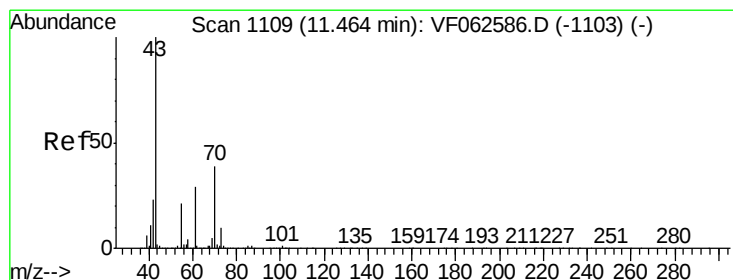
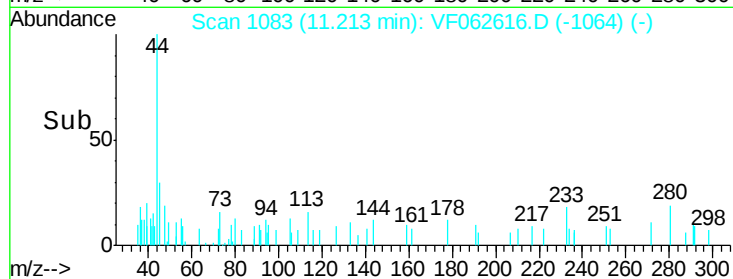
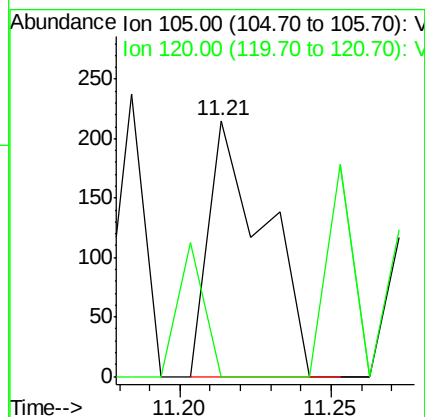
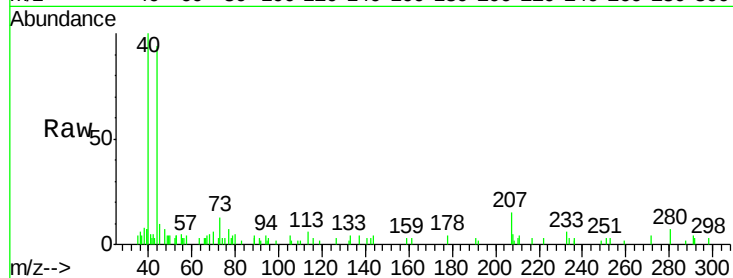
11-B2

Tot Ion:105 Resp: 278

Ion Ratio Lower Upper

105 100

120 0.0 13.5 40.4#



#74

N-ethyl acetate

Concen: 699.041 ug/l

RT: 11.02 min Scan# 1063

Delta R.T. -0.45 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Tgt Ion: 43 Resp: 913

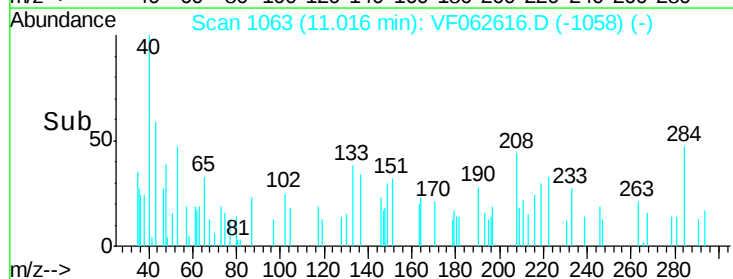
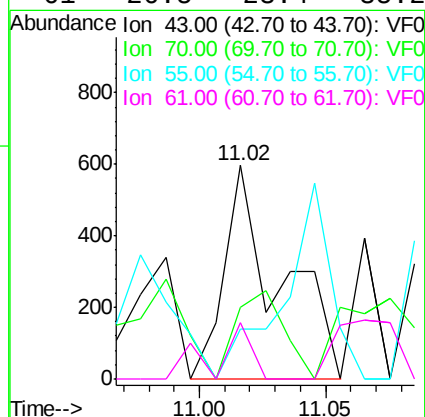
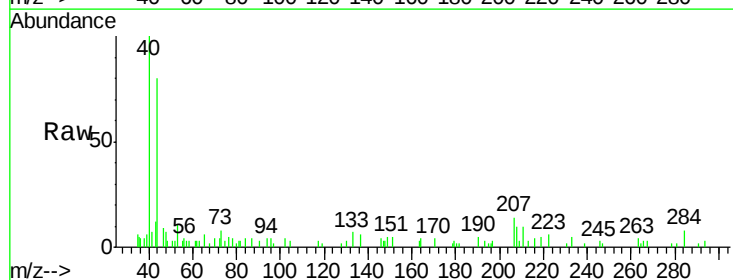
Ion Ratio Lower Upper

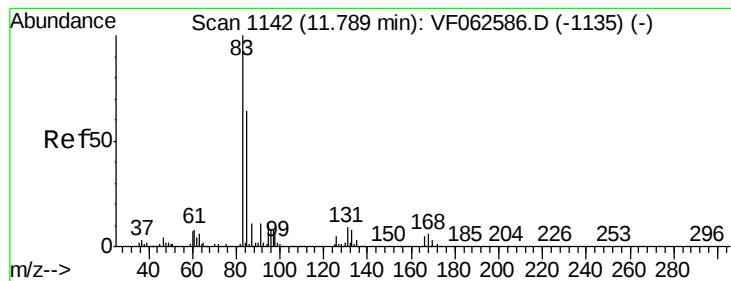
43 100

70 33.5 31.0 46.4

55 23.6 16.7 25.1

61 26.5 23.4 35.2





#75

1,1,2,2-Tetrachloroethane

Concen: 107.082 ug/l

RT: 11.79 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

11-B2

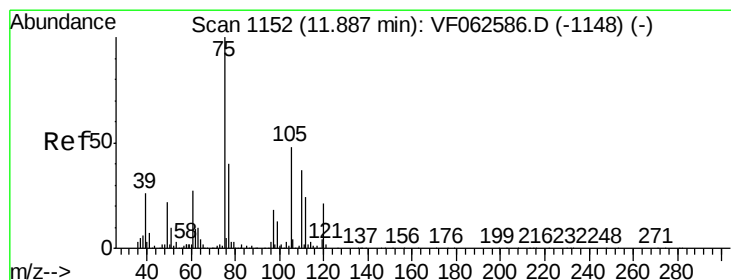
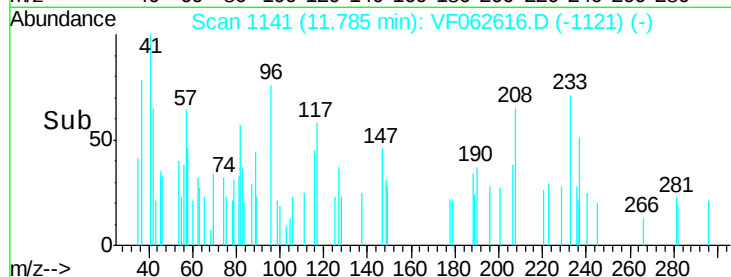
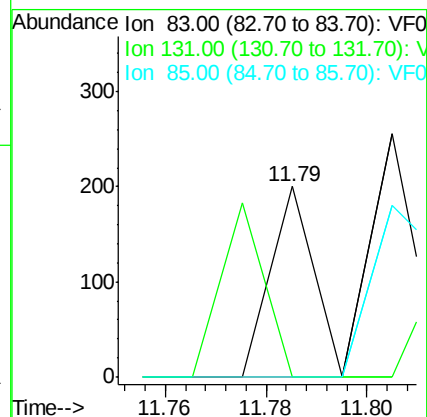
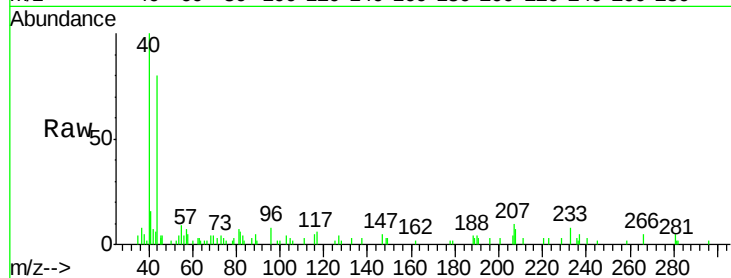
Tot Ion: 83 Resp: 118

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

85 0.0 32.1 96.3#



#76

1,2,3-Trichloropropane

Concen: 520.914 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.06 min

Lab File: VF062616.D

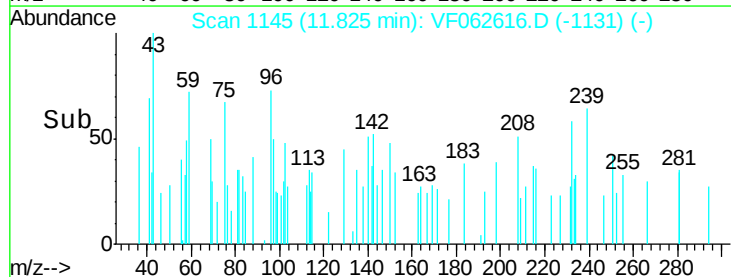
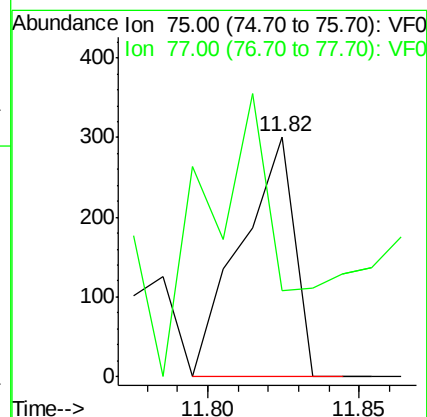
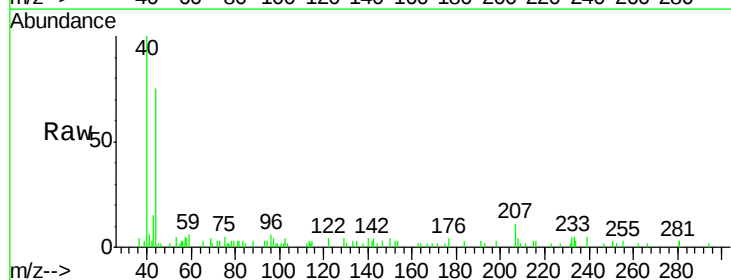
Acq: 15 May 2019 18:41

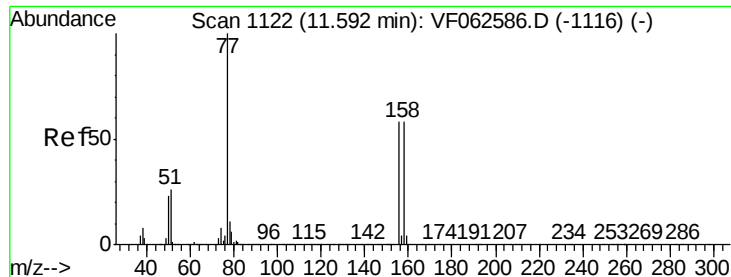
Tgt Ion: 75 Resp: 368

Ion Ratio Lower Upper

75 100

77 35.9 20.4 61.3





#77

Bromobenzene

Concen: 111.061 ug/l

RT: 11.60 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampleId :

11-B2

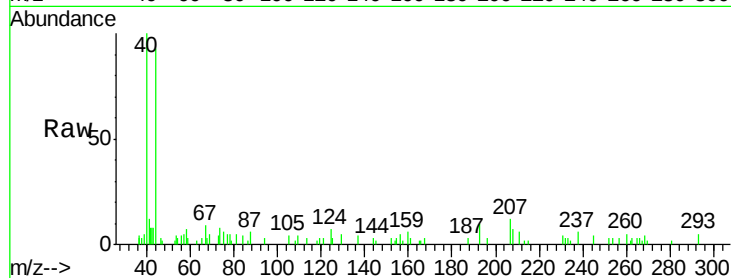
Tot Ion:156 Resp: 135

Ion Ratio Lower Upper

156 100

77 96.9 86.5 259.5

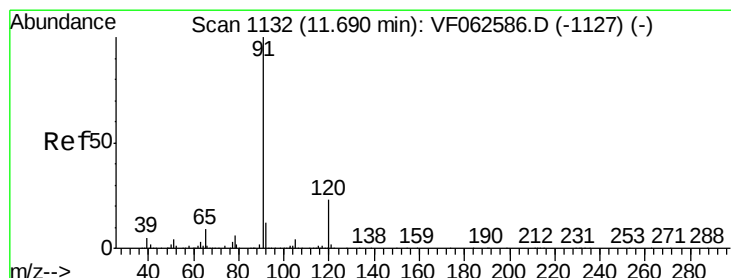
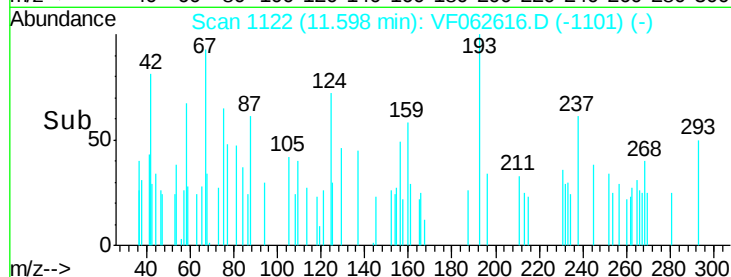
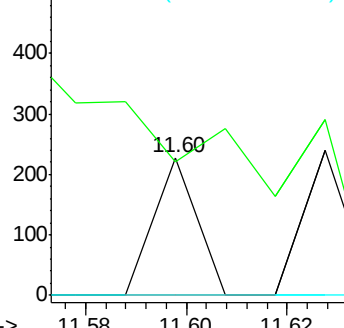
158 0.0 50.3 150.9#



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: 13.442 ug/l

RT: 11.71 min Scan# 1133

Delta R.T. 0.02 min

Lab File: VF062616.D

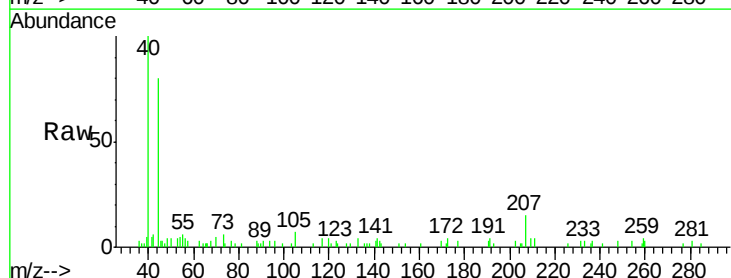
Acq: 15 May 2019 18:41

Tgt Ion: 91 Resp: 86

Ion Ratio Lower Upper

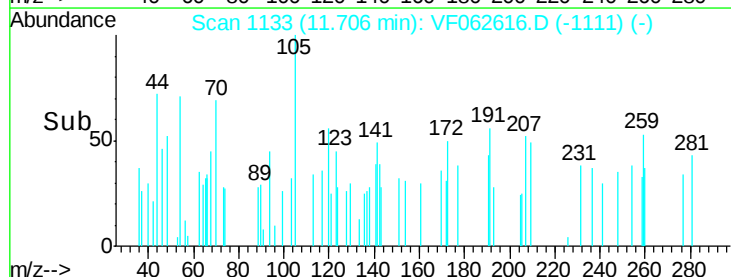
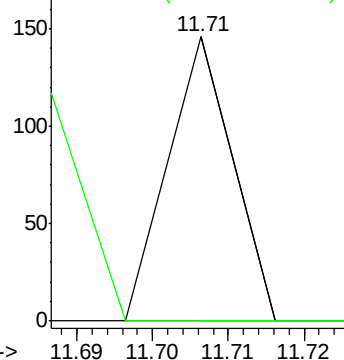
91 100

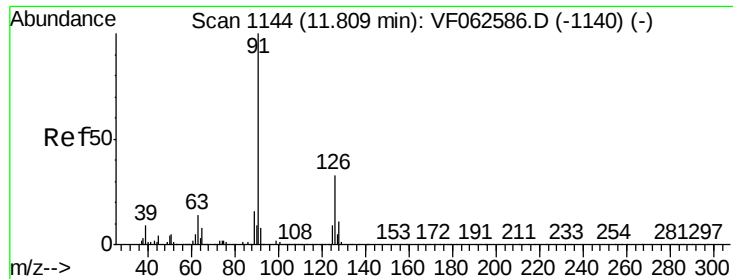
120 0.0 11.7 35.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

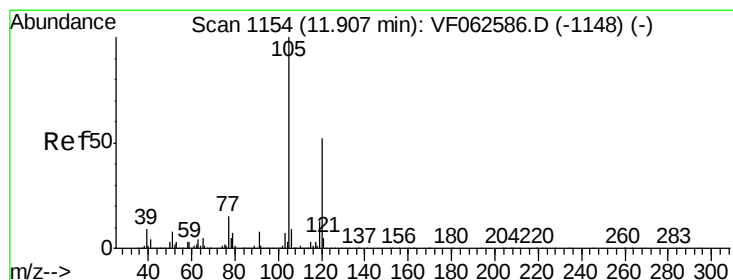
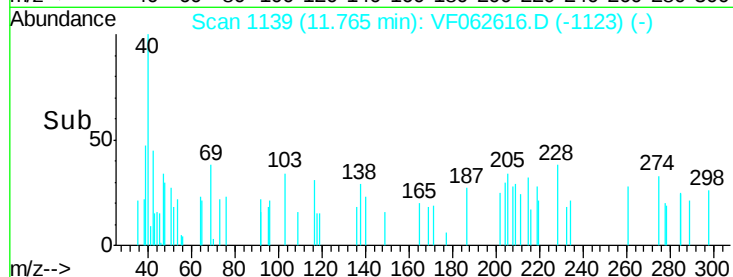
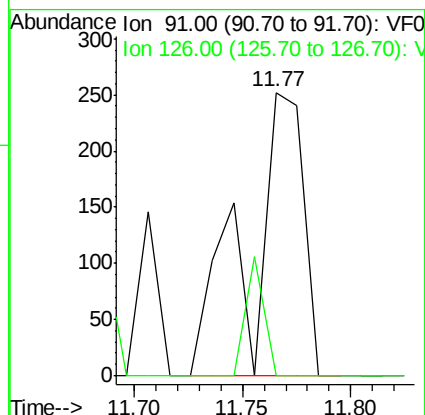
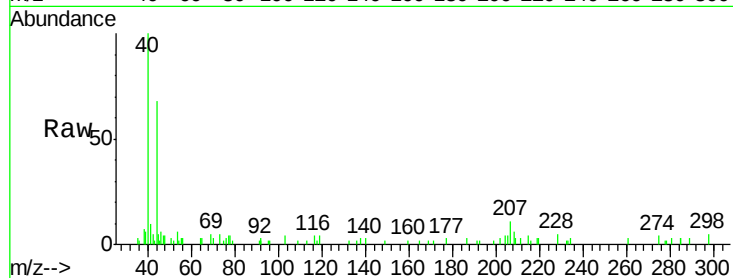




#79  
 2-Chlorotoluene  
 Concen: 125.463 ug/l  
 RT: 11.77 min Scan# 1139  
 Delta R.T. -0.04 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

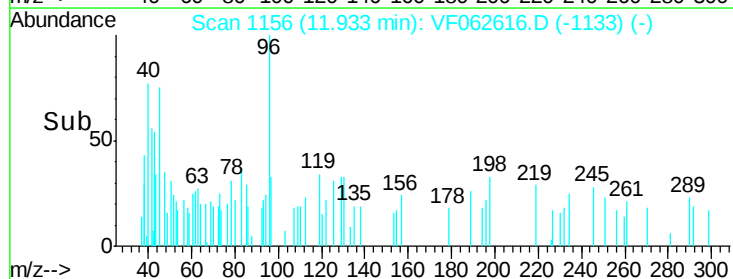
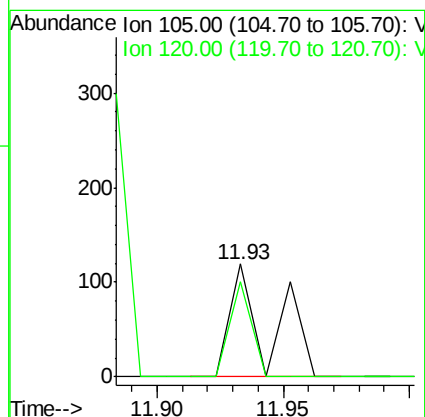
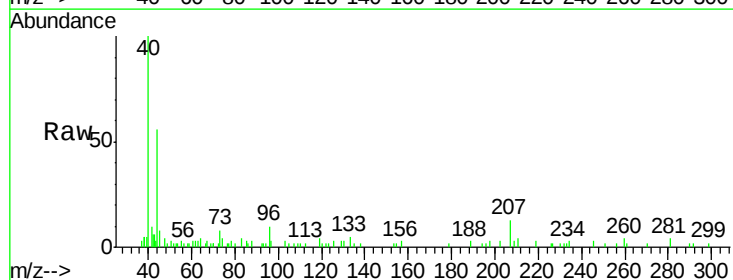
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 11-B2

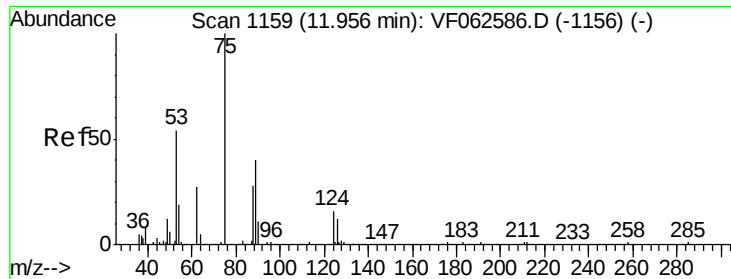
Tot Ion: 91 Resp: 443  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 16.6 49.8#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 30.875 ug/l  
 RT: 11.93 min Scan# 1156  
 Delta R.T. 0.03 min  
 Lab File: VF062616.D  
 Acq: 15 May 2019 18:41

Tgt Ion:105 Resp: 130  
 Ion Ratio Lower Upper  
 105 100  
 120 84.0 25.9 77.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 637.641 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

11-B2

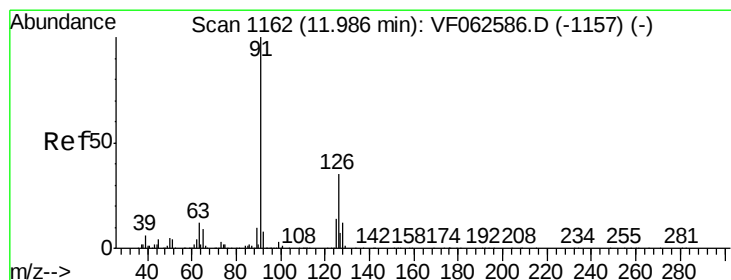
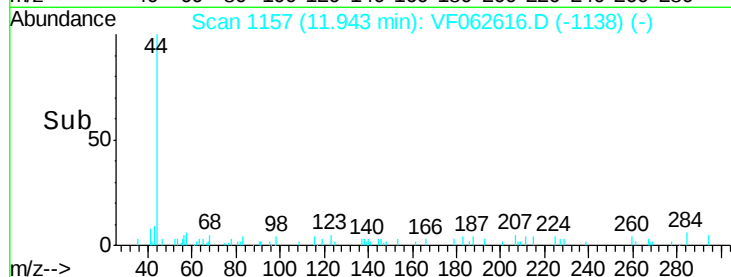
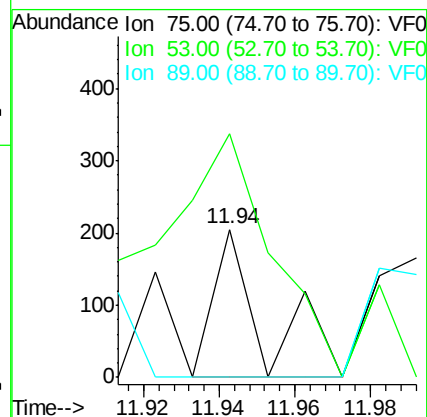
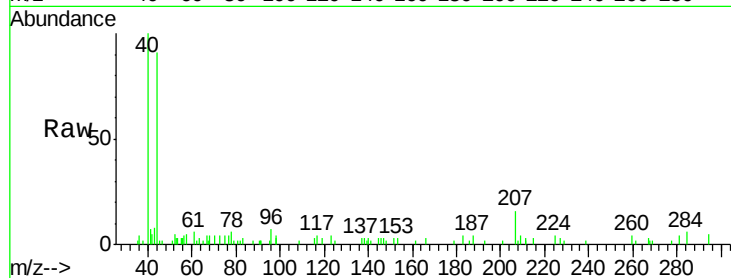
Tot Ion: 75 Resp: 192

Ion Ratio Lower Upper

75 100

53 164.4 46.6 70.0#

89 0.0 33.8 50.8#



#82

4-Chlorotoluene

Concen: 131.789 ug/l

RT: 12.00 min Scan# 1163

Delta R.T. 0.02 min

Lab File: VF062616.D

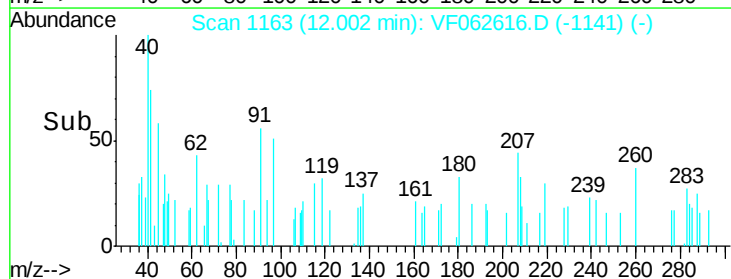
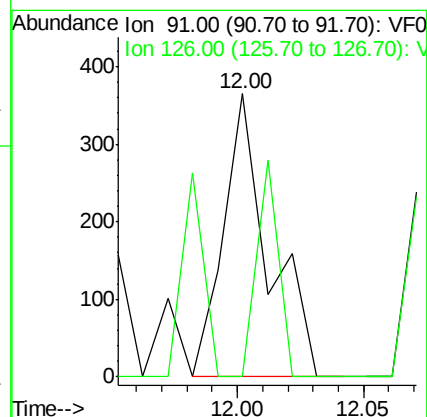
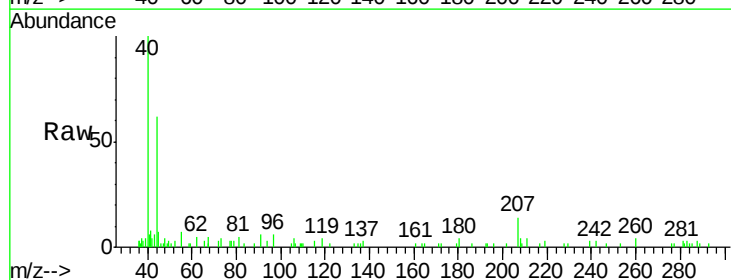
Acq: 15 May 2019 18:41

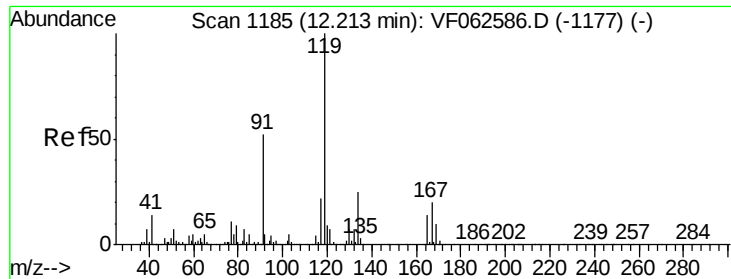
Tgt Ion: 91 Resp: 455

Ion Ratio Lower Upper

91 100

126 0.0 17.5 52.5#

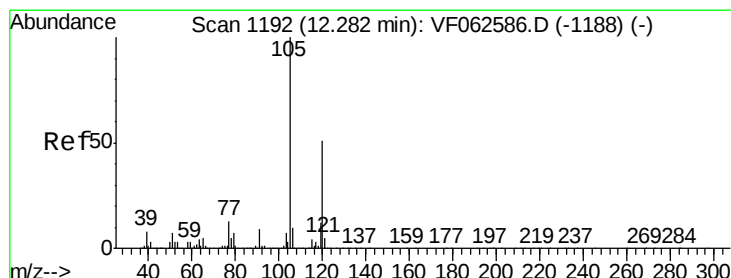
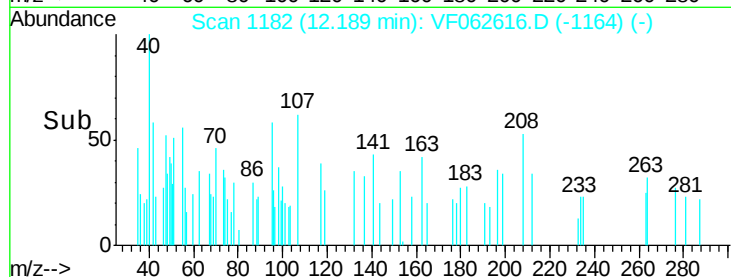
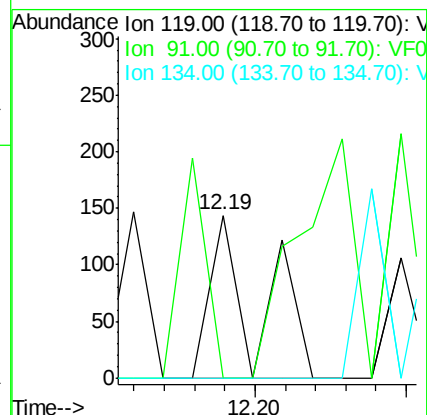
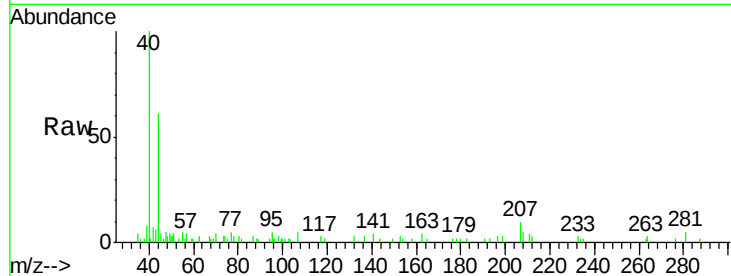




#83  
tert-Butylbenzene  
Concen: 35.647 ug/l  
RT: 12.19 min Scan# 1182  
Delta R.T. -0.02 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

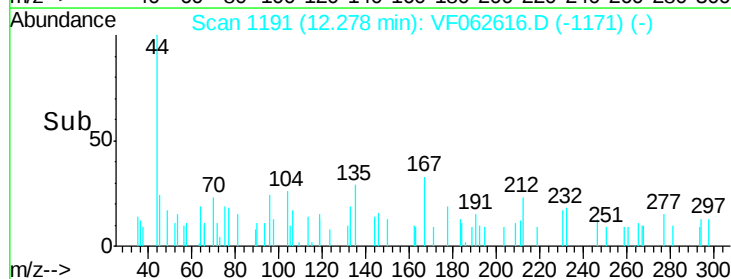
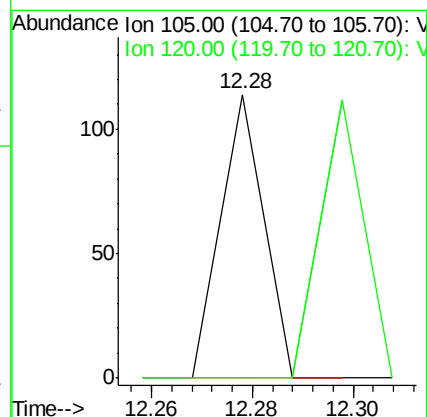
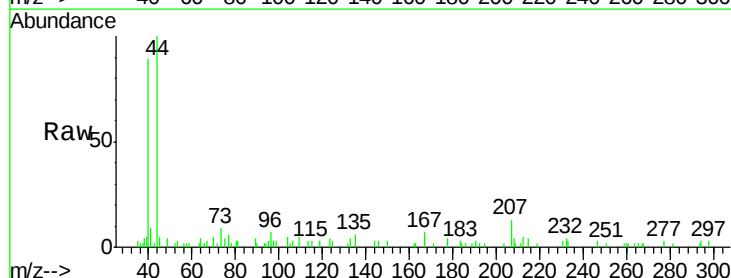
Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

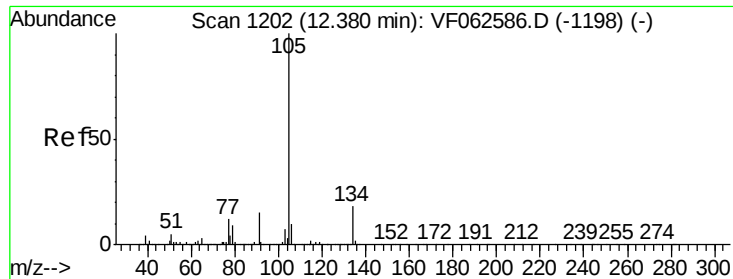
Tot Ion:119 Resp: 157  
Ion Ratio Lower Upper  
119 100  
91 0.0 26.0 78.0#  
134 0.0 12.6 37.8#



#84  
1,2,4-Trimethylbenzene  
Concen: 16.199 ug/l  
RT: 12.28 min Scan# 1191  
Delta R.T. -0.00 min  
Lab File: VF062616.D  
Acq: 15 May 2019 18:41

Tgt Ion:105 Resp: 67  
Ion Ratio Lower Upper  
105 100  
120 0.0 25.4 76.0#





#85

sec-Butylbenzene

Concen: 51.174 ug/l

RT: 12.39 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

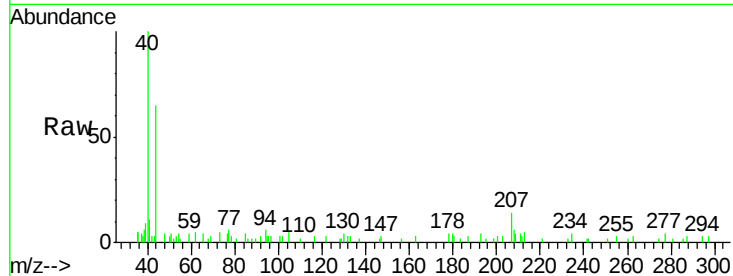
11-B2

Tot Ion:105 Resp: 306

Ion Ratio Lower Upper

105 100

134 0.0 9.3 27.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.39

250

200

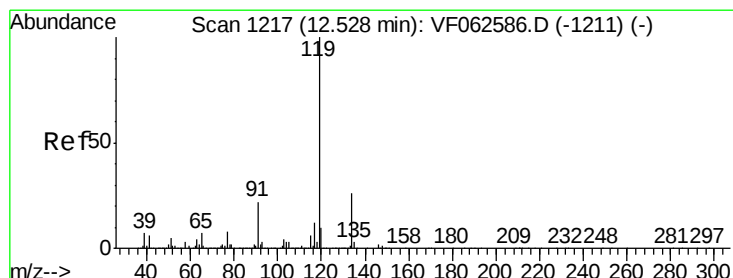
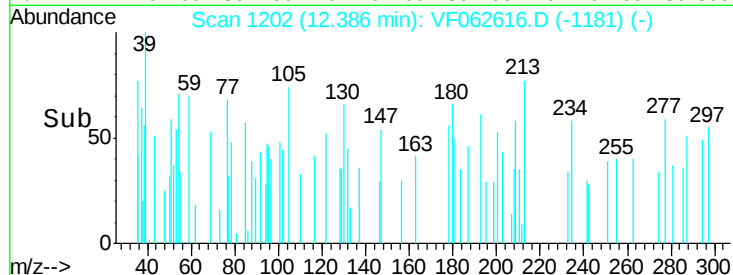
150

100

50

0

Time-->



#86

p-Isopropyltoluene

Concen: 62.980 ug/l

RT: 12.58 min Scan# 1222

Delta R.T. 0.06 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

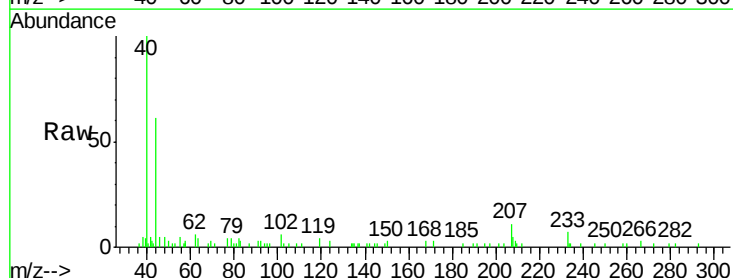
Tgt Ion:119 Resp: 310

Ion Ratio Lower Upper

119 100

134 106.9 13.0 39.0#

91 66.3 10.9 32.9#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.58

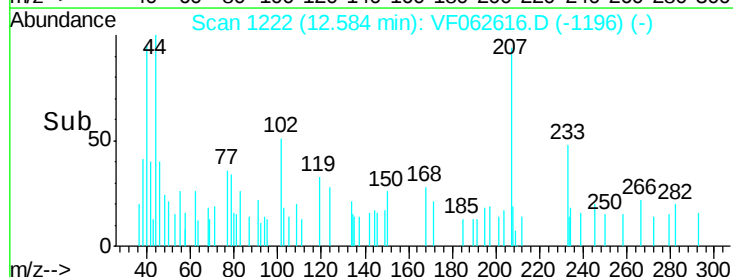
300

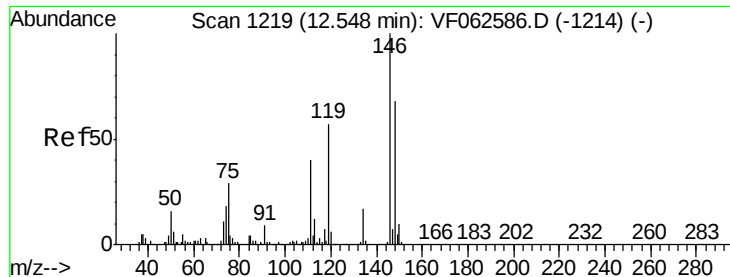
200

100

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 25.237 ug/l

RT: 12.49 min Scan# 1213

Delta R.T. -0.05 min

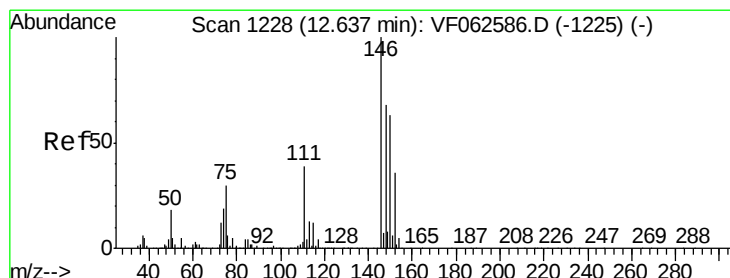
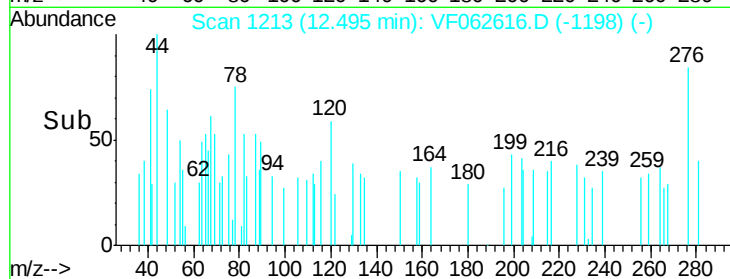
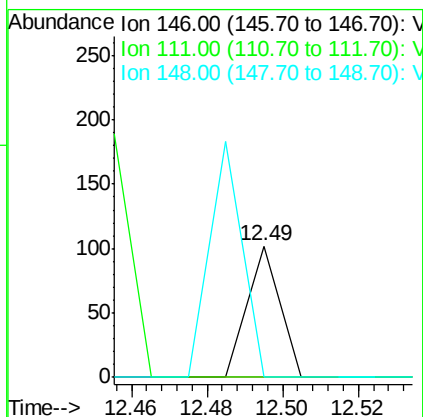
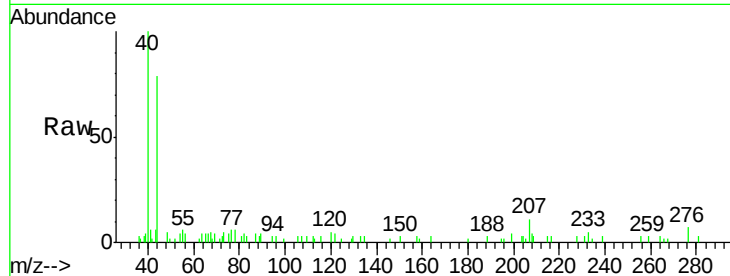
Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :  
MSVOA\_F  
ClientSampled :  
11-B2

Tot Ion:146 Resp: 60

| 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: 84.296 ug/l

RT: 12.67 min Scan# 1231

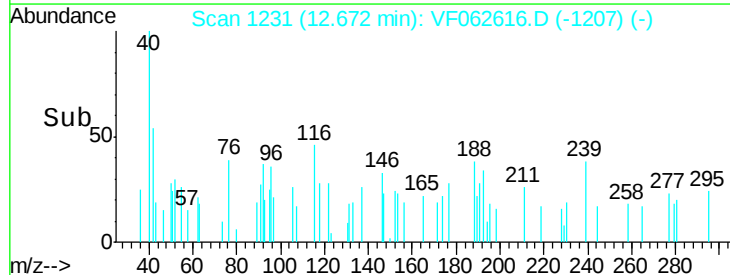
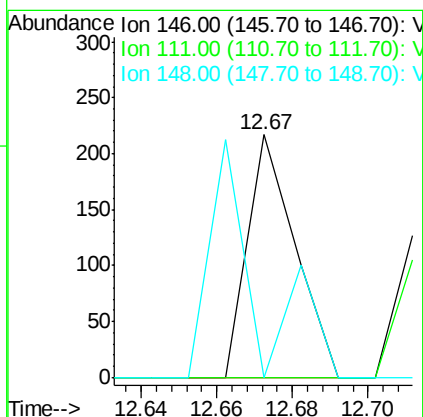
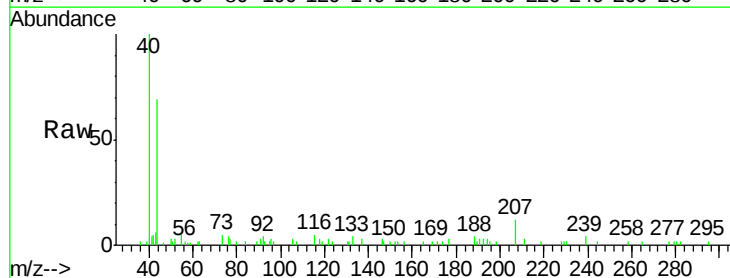
Delta R.T. 0.04 min

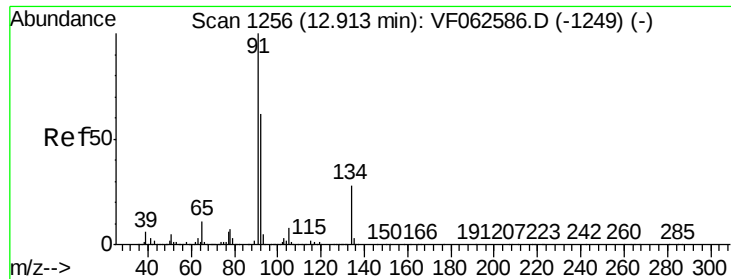
Lab File: VF062616.D

Acq: 15 May 2019 18:41

Tgt Ion:146 Resp: 188

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 146 | 100   |       |        |
| 111 | 0.0   | 19.4  | 58.1#  |
| 148 | 0.0   | 34.2  | 102.5# |





#89

n-Butylbenzene

Concen: 27.742 ug/l

RT: 12.93 min Scan# 1257

Delta R.T. 0.02 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

11-B2

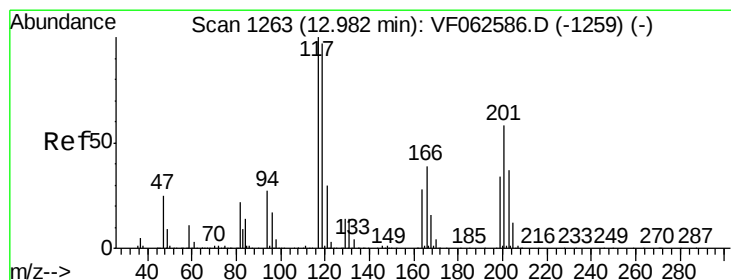
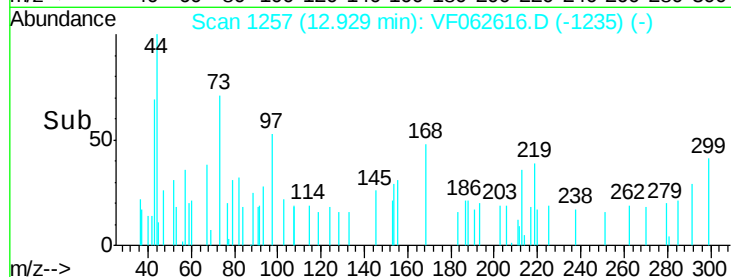
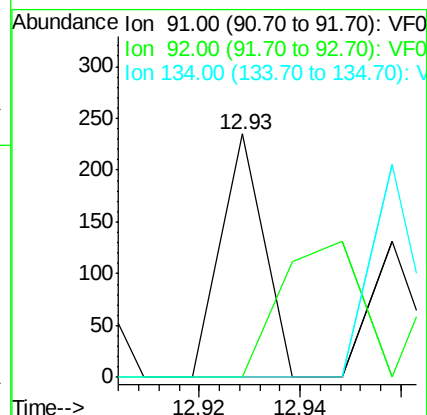
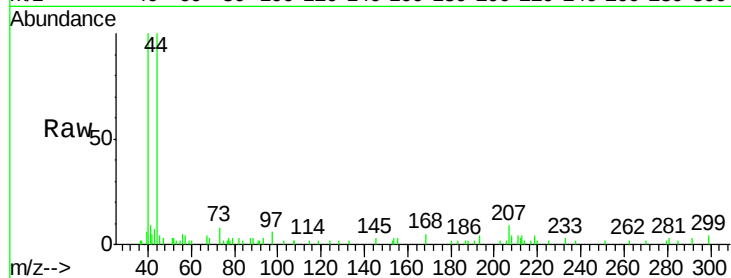
Tot Ion: 91 Resp: 139

Ion Ratio Lower Upper

91 100

92 0.0 30.9 92.8#

134 0.0 13.9 41.6#



#90

Hexachloroethane

Concen: 351.355 ug/l

RT: 13.00 min Scan# 1264

Delta R.T. 0.02 min

Lab File: VF062616.D

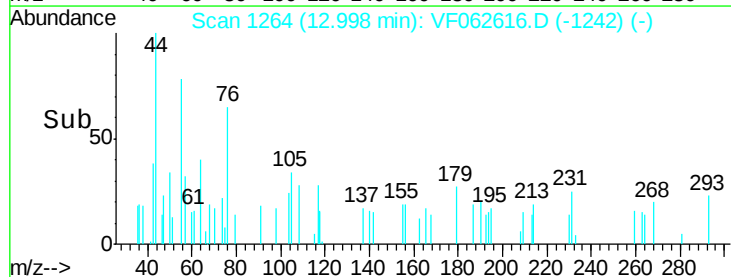
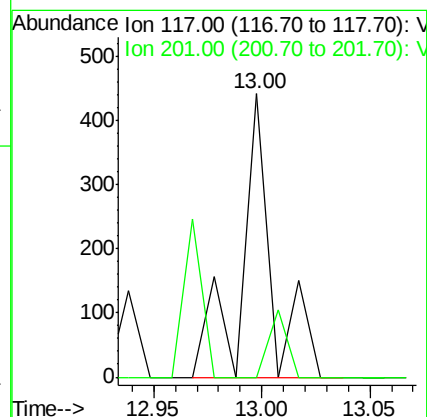
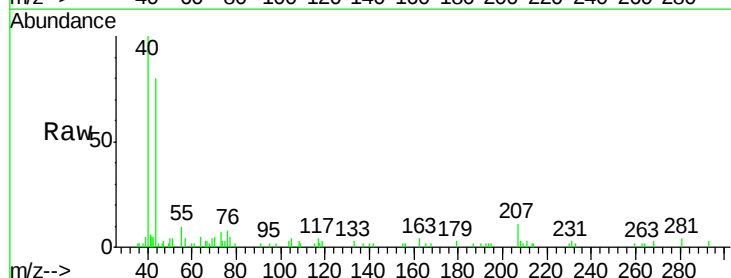
Acq: 15 May 2019 18:41

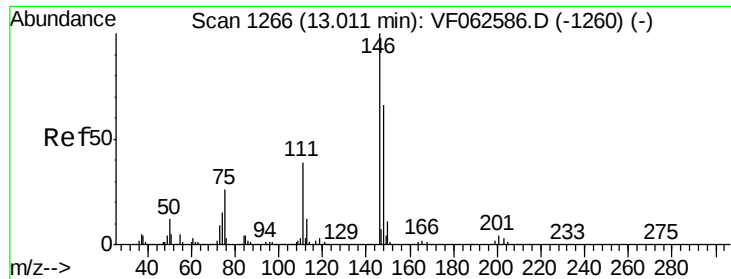
Tgt Ion: 117 Resp: 443

Ion Ratio Lower Upper

117 100

201 0.0 29.7 89.1#





#91

1,2-Dichlorobenzene

Concen: 43.619 ug/l

RT: 13.02 min Scan# 1266

Delta R.T. 0.01 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

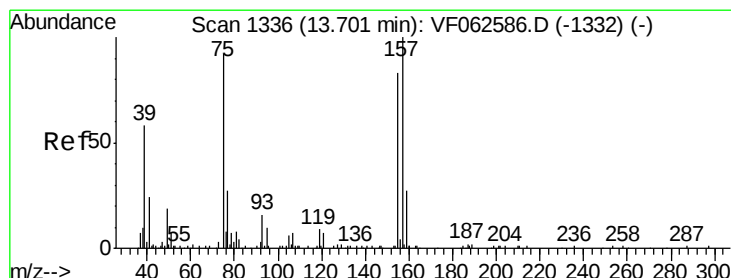
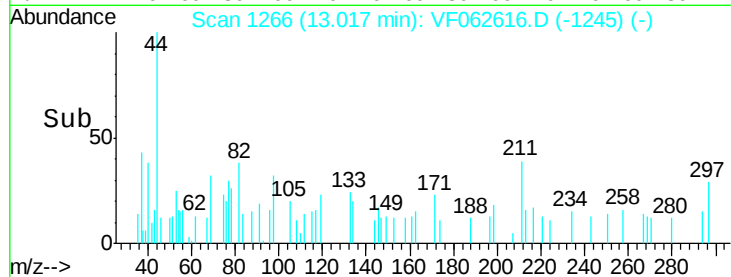
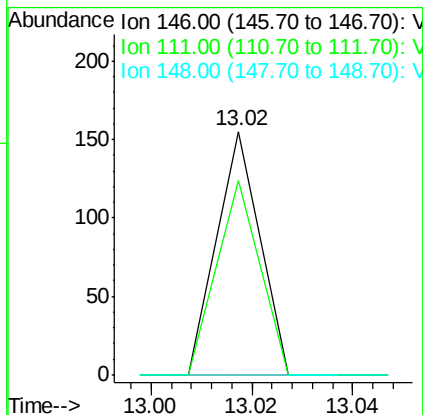
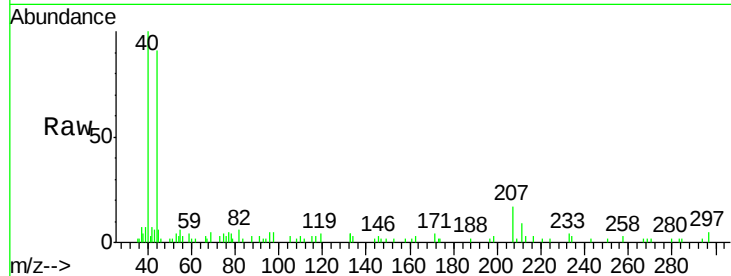
Instrument :

MSVOA\_F

ClientSampleId :

11-B2

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 92    |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 46.6  | 19.4  | 58.2  |
| 148      | 0.0   | 33.1  | 99.5# |



#92

1,2-Dibromo-3-Chloropropane

Concen: 3812.100 ug/l

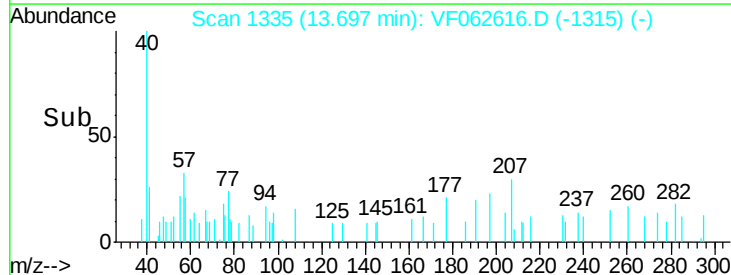
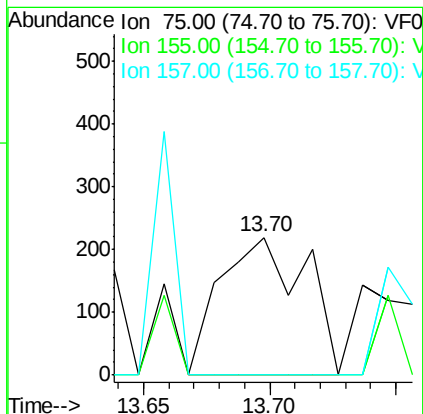
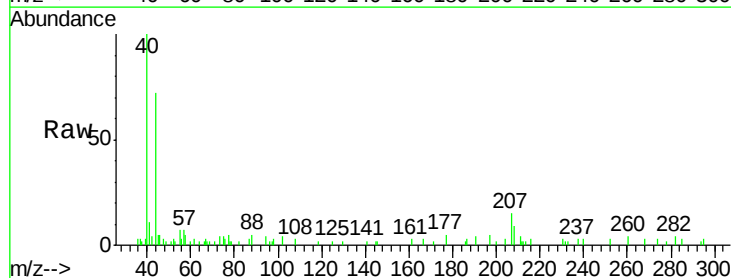
RT: 13.70 min Scan# 1335

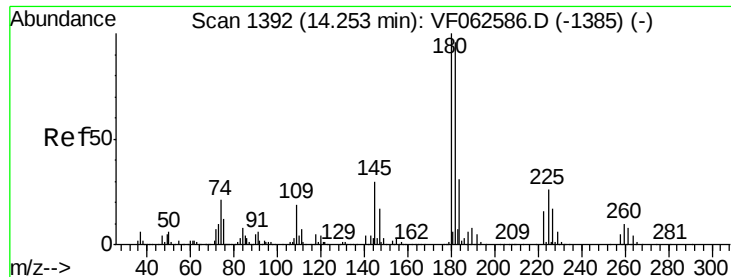
Delta R.T. -0.00 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 516    |
| 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: 66.817 ug/l

RT: 14.33 min Scan# 1399

Delta R.T. 0.08 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

11-B2

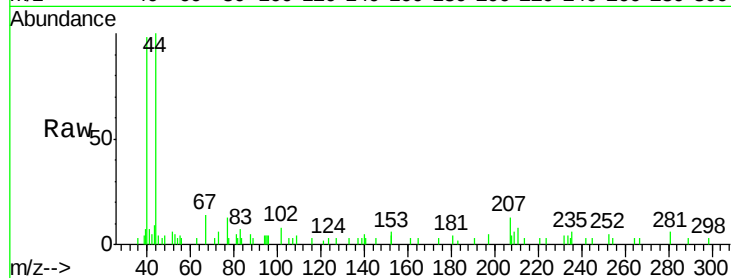
Tot Ion:180 Resp: 98

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.8#

145 80.7 14.8 44.4#

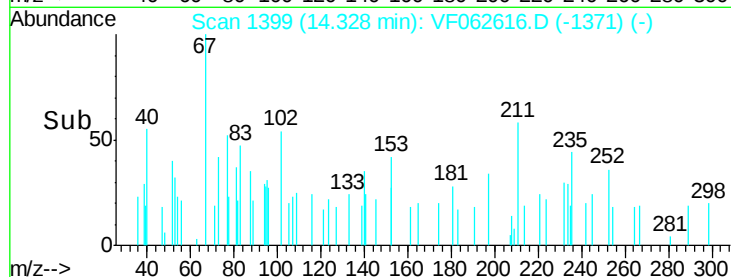


Abundance Ion 180.00 (179.70 to 180.70): V

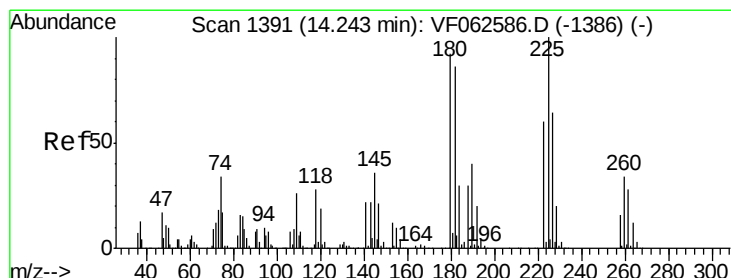
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

14.33



Time-->



#94

Hexachlorobutadiene

Concen: 62.885 ug/l

RT: 14.20 min Scan# 1386

Delta R.T. -0.04 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

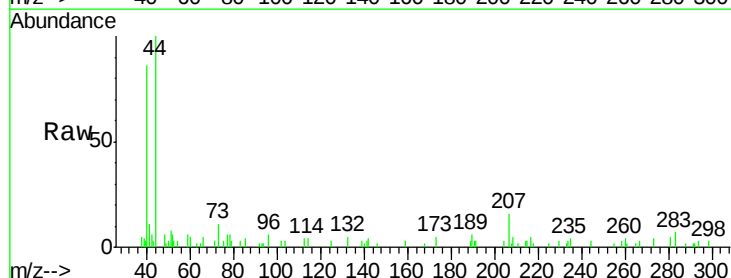
Tgt Ion:225 Resp: 67

Ion Ratio Lower Upper

225 100

223 0.0 29.9 89.7#

227 0.0 31.9 95.9#

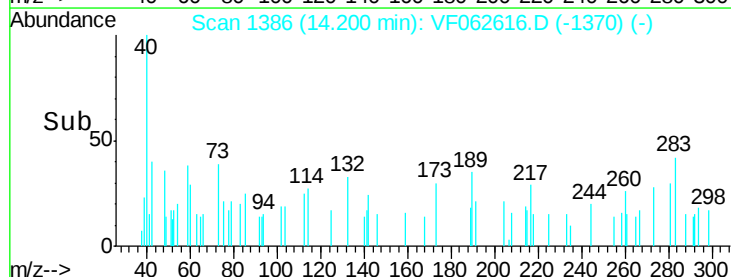


Abundance Ion 225.00 (224.70 to 225.70): V

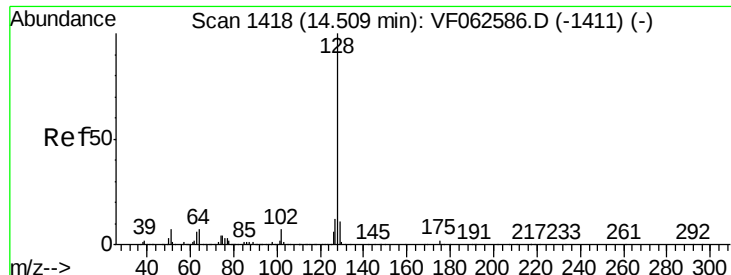
Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V

14.20



Time-->



#95

Naphthalene

Concen: 110.587 ug/l

RT: 14.47 min Scan# 1413

Delta R.T. -0.04 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

Instrument :

MSVOA\_F

ClientSampled :

11-B2

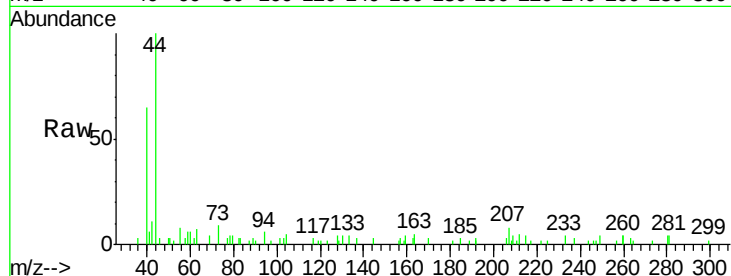
Tot Ion:128 Resp: 264

Ion Ratio Lower Upper

128 100

127 0.0 9.5 14.3#

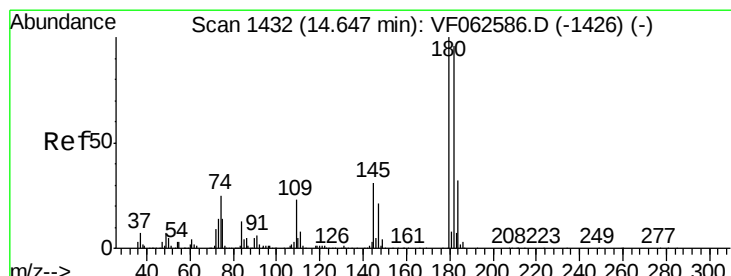
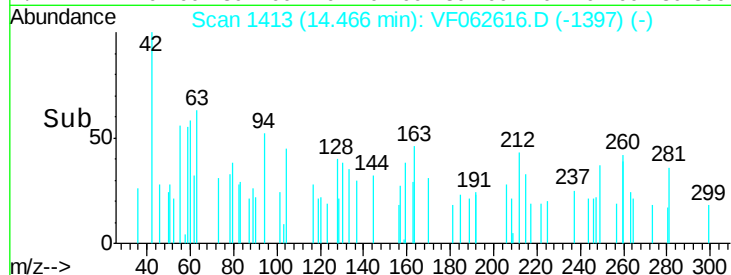
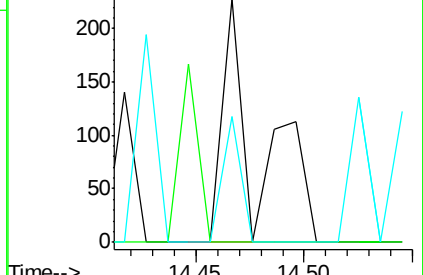
129 51.8 8.6 13.0#



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: 157.278 ug/l

RT: 14.63 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VF062616.D

Acq: 15 May 2019 18:41

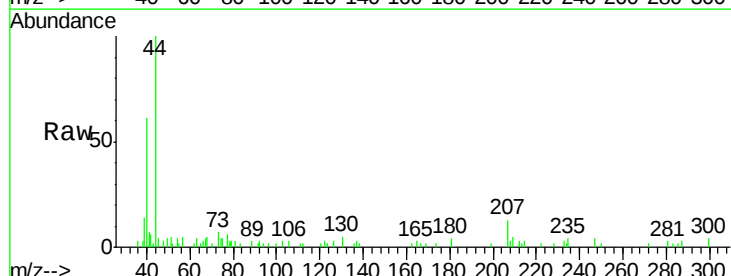
Tgt Ion:180 Resp: 214

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

