

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111119\  
 Data File : VX013370.D  
 Acq On : 11 Nov 2019 17:39  
 Operator : JC/SP  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 12 01:05:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Nov 12 01:01:06 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 110273   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 677049   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 612467   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 257515   | 30.19    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 100.63% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 294555   | 28.12    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 93.73%  |
| 63) Toluene-d8            | 8.71   | 98    | 824061   | 30.25    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.83% |

## Target Compounds

|                               |      |     |         |         | Ovalue    |
|-------------------------------|------|-----|---------|---------|-----------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 880573  | 111.251 | ug/l 99   |
| 3) Chloromethane              | 1.31 | 50  | 941922  | 129.357 | ug/l 98   |
| 4) Vinyl Chloride             | 1.40 | 62  | 1086744 | 141.308 | ug/l 99   |
| 5) Bromomethane               | 1.62 | 94  | 657560  | 163.506 | ug/l 100  |
| 6) Chloroethane               | 1.70 | 64  | 569472  | 121.443 | ug/l 99   |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 1141587 | 101.522 | ug/l 98   |
| 8) Diethyl Ether              | 2.18 | 74  | 528562  | 129.557 | ug/l 100  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 682606  | 98.734  | ug/l 99   |
| 10) 1,1-Dichloroethene        | 2.36 | 96  | 724394  | 108.120 | ug/l 100  |
| 11) Methyl Iodide             | 2.50 | 142 | 961205  | 112.202 | ug/l 100  |
| 12) Methyl Acetate            | 2.76 | 43  | 1275390 | 138.536 | ug/l 97   |
| 13) Acrolein                  | 2.28 | 56  | 655484  | 518.513 | ug/l 100  |
| 14) Acrylonitrile             | 3.13 | 53  | 2322667 | 622.493 | ug/l 99   |
| 15) Acetone                   | 2.44 | 58  | 673398  | 547.291 | ug/l 97   |
| 16) Carbon Disulfide          | 2.56 | 76  | 2043077 | 113.075 | ug/l 100  |
| 17) Allyl chloride            | 2.72 | 41  | 1348168 | 122.766 | ug/l 97   |
| 18) Methylene Chloride        | 2.84 | 84  | 798348  | 103.408 | ug/l 99   |
| 19) trans-1,2-Dichloroethene  | 3.15 | 96  | 767101  | 107.967 | ug/l 98   |
| 20) Diisopropyl ether         | 3.84 | 45  | 2529685 | 119.792 | ug/l # 84 |
| 21) 1,1-Dichloroethane        | 3.69 | 63  | 1393272 | 110.744 | ug/l 98   |
| 22) cis-1,2-Dichloroethene    | 4.58 | 96  | 881075  | 108.957 | ug/l 98   |
| 23) tert-Butyl Alcohol        | 2.76 | 59  | 109266  | 57.121  | ug/l 100  |
| 24) Methyl tert-Butyl Ether   | 3.18 | 73  | 2375787 | 103.363 | ug/l 100  |
| 25) Chloroform                | 5.20 | 83  | 1337268 | 102.472 | ug/l 99   |
| 26) Cyclohexane               | 5.57 | 56  | 1248652 | 112.355 | ug/l # 99 |
| 29) 1,1-Dichloropropene       | 5.79 | 75  | 1031568 | 100.001 | ug/l 100  |
| 30) 2-Butanone                | 4.66 | 43  | 3406946 | 593.676 | ug/l 99   |
| 31) 2,2-Dichloropropane       | 4.57 | 77  | 1129465 | 94.906  | ug/l 100  |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 1156852 | 93.384  | ug/l 99   |
| 33) Carbon Tetrachloride      | 5.77 | 117 | 1016869 | 95.111  | ug/l 99   |
| 34) Benzene                   | 6.13 | 78  | 3147725 | 104.383 | ug/l 99   |
| 35) Methacrylonitrile         | 5.03 | 41  | 705949  | 120.749 | ug/l 98   |
| 36) 1,2-Dichloroethane        | 6.18 | 62  | 1090270 | 96.997  | ug/l 99   |
| 37) Trichloroethene           | 7.20 | 130 | 854344  | 102.948 | ug/l 97   |
| 38) Methylcyclohexane         | 7.45 | 83  | 1273322 | 100.130 | ug/l 99   |
| 39) 1,2-Dichloropropane       | 7.51 | 63  | 819366  | 109.698 | ug/l 99   |
| 40) Dibromomethane            | 7.65 | 93  | 531121  | 100.883 | ug/l 97   |

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 ClientSampleId :

Quant Time: Nov 12 01:05:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Nov 12 01:01:06 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 41) Bromodichloromethane       | 7.89  | 83   | 1078322  | 101.807  | ug/l  | 97       |
| 42) Vinyl Acetate              | 3.80  | 43   | 10774219 | 556.373  | ug/l  | 99       |
| 43) Ethyl Acetate              | 4.82  | 43   | 1264985  | 120.486  | ug/l  | 97       |
| 44) Isopropyl Acetate          | 6.43  | 43   | 2038865  | 118.177  | ug/l  | 99       |
| 45) 1,4-Dioxane                | 7.73  | 88   | 450293   | 2134.302 | ug/l  | 100      |
| 46) Methyl methacrylate        | 7.76  | 41   | 1019788  | 120.073  | ug/l  | 100      |
| 47) n-amyl Acetate             | 10.89 | 43   | 1842979  | 124.907  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene      | 9.04  | 75   | 1245185  | 107.021  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene    | 8.43  | 75   | 1349208  | 106.349  | ug/l  | 98       |
| 50) 1,1,2-Trichloroethane      | 9.21  | 97   | 794067   | 101.764  | ug/l  | 99       |
| 51) Ethyl methacrylate         | 9.17  | 69   | 1366122  | 111.104  | ug/l  | 98       |
| 52) 1,3-Dichloropropane        | 9.37  | 76   | 1362613  | 103.534  | ug/l  | 99       |
| 53) Dibromochloromethane       | 9.58  | 129  | 885080   | 105.615  | ug/l  | 97       |
| 54) 1,2-Dibromoethane          | 9.67  | 107  | 853922   | 102.540  | ug/l  | 98       |
| 55) 2-Chloroethyl vinyl ether  | 8.31  | 63   | 2782369  | 546.322  | ug/l  | 100      |
| 56) Bromoform                  | 10.85 | 173  | 722418   | 118.881  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone       | 8.64  | 43   | 6388697  | 598.236  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 5040269  | 599.145  | ug/l  | 98       |
| 61) Tetrachloroethene          | 9.33  | 164  | 735086   | 93.750   | ug/l  | 96       |
| 62) Toluene                    | 8.78  | 91   | 3369772  | 102.022  | ug/l  | 99       |
| 64) Chlorobenzene              | 10.14 | 112  | 2135076  | 101.555  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 805295   | 102.610  | ug/l  | 99       |
| 66) Ethyl Benzene              | 10.24 | 91   | 3755668  | 99.657   | ug/l  | 99       |
| 67) m/p-Xylenes                | 10.35 | 106  | 2884627  | 201.630  | ug/l  | 99       |
| 68) o-Xylene                   | 10.70 | 106  | 1412686  | 102.686  | ug/l  | 97       |
| 69) Styrene                    | 10.71 | 104  | 2434455  | 103.414  | ug/l  | 99       |
| 70) Isopropylbenzene           | 11.01 | 105  | 3686985  | 98.654   | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 1312526  | 110.720  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane     | 11.29 | 75   | 1552011  | 157.913  | ug/l  | 80       |
| 73) Bromobenzene               | 11.25 | 156  | 976117   | 106.617  | ug/l  | 97       |
| 74) n-propylbenzene            | 11.35 | 91   | 4212298  | 101.994  | ug/l  | 99       |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 2476763  | 96.884   | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 3118033  | 98.978   | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene    | 11.07 | 75   | 495839   | 124.193  | ug/l  | 93       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 2868835  | 97.972   | ug/l  | 100      |
| 79) tert-butylbenzene          | 11.77 | 119  | 3158784  | 102.676  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 3118557  | 99.196   | ug/l  | 99       |
| 81) sec-Butylbenzene           | 11.94 | 105  | 3592916  | 99.793   | ug/l  | 99       |
| 82) p-Isopropyltoluene         | 12.06 | 119  | 3343683  | 101.142  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 12.02 | 146  | 1726023  | 104.271  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene        | 12.09 | 146  | 1731162  | 105.727  | ug/l  | 99       |
| 85) n-Butylbenzene             | 12.38 | 91   | 2969280  | 105.421  | ug/l  | 99       |
| 86) Hexachloroethane           | 12.59 | 117  | 627841   | 108.296  | ug/l  | 98       |
| 87) 1,2-Dichlorobenzene        | 12.38 | 146  | 1737890  | 107.956  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 310647   | 110.188  | ug/l  | 99       |
| 89) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 1242122  | 121.158  | ug/l  | 99       |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 577524   | 111.450  | ug/l  | 97       |
| 91) Naphthalene                | 13.83 | 128  | 3939694  | 118.812  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 1232310  | 117.491  | ug/l  | 98       |

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Sample : VSTDICC100  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

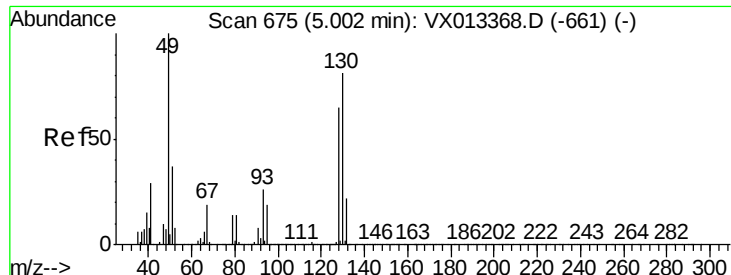
Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Nov 12 01:05:47 2019  
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Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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



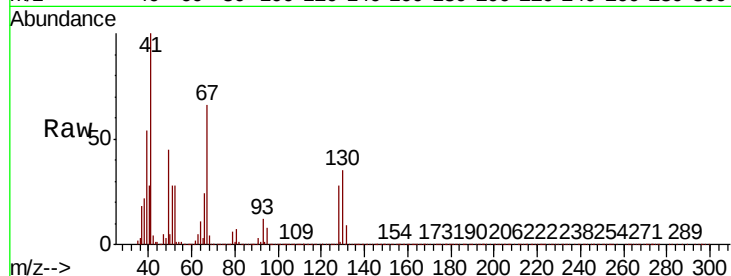


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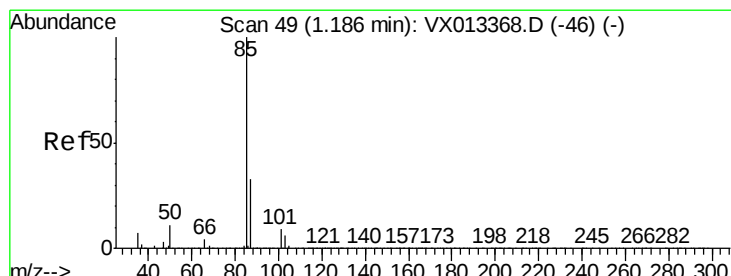
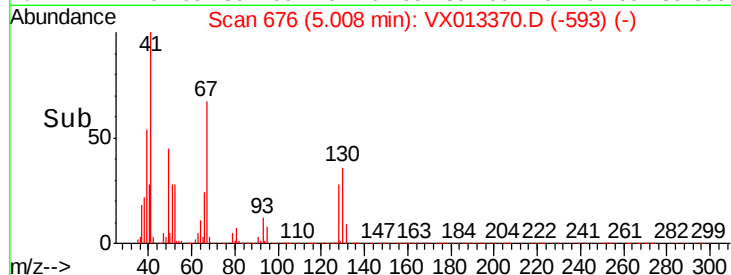
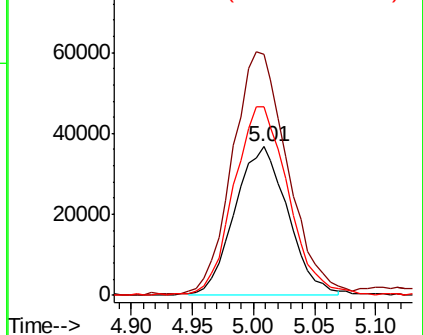
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 5.01 min Scan# 676  
Delta R.T. 0.01 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 169.4 | 0.0   | 388.3 |
| 130     | 129.6 | 0.0   | 318.5 |



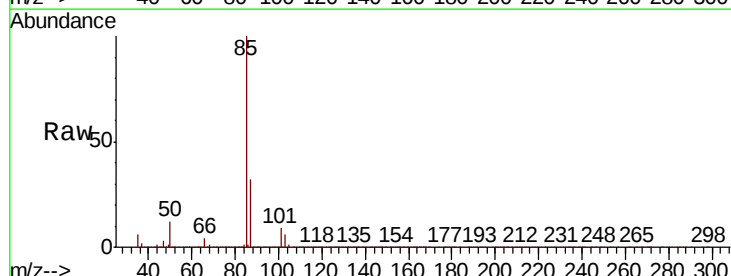
Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VX0  
Ion 130.00 (129.70 to 130.70): V



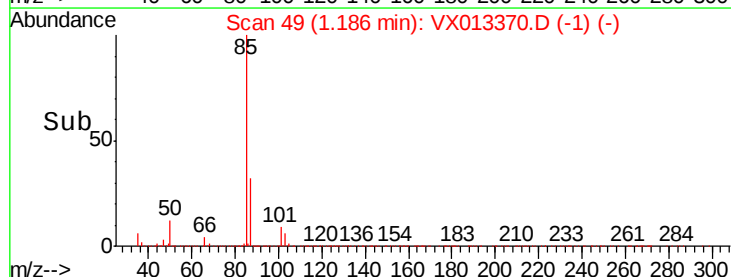
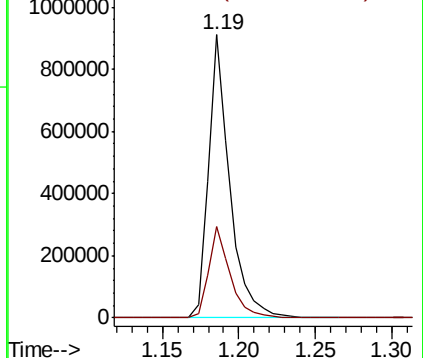
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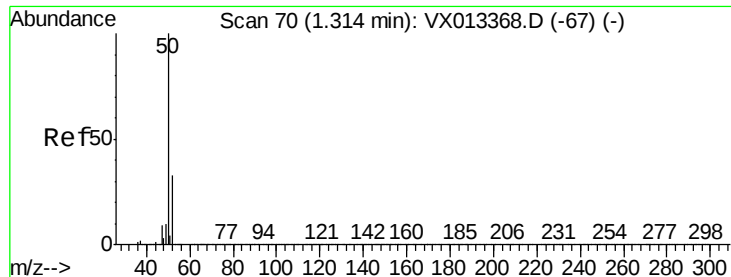
Dichlorodifluoromethane  
Concen: 111.251 ug/l  
RT: 1.19 min Scan# 49  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 32.5  | 16.6  | 49.7  |



Abundance Ion 85.00 (84.70 to 85.70): VX0  
Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 129.357 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

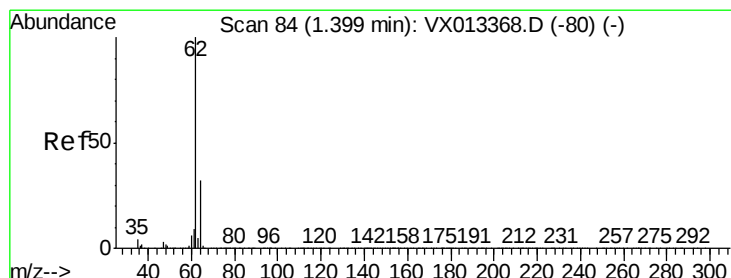
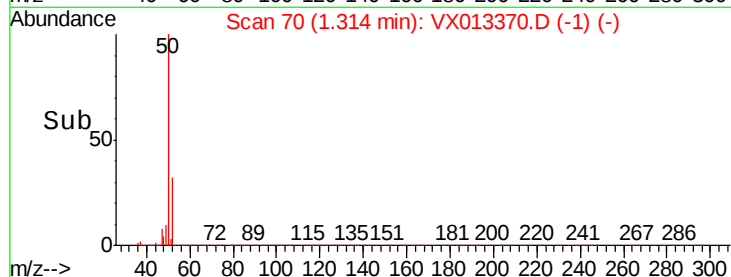
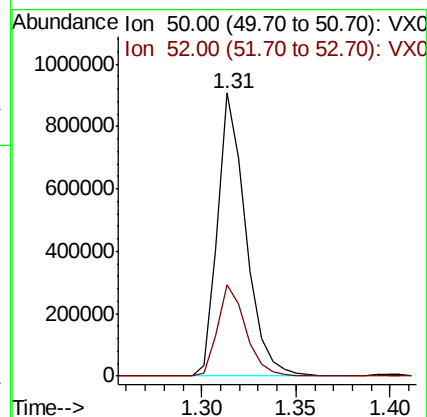
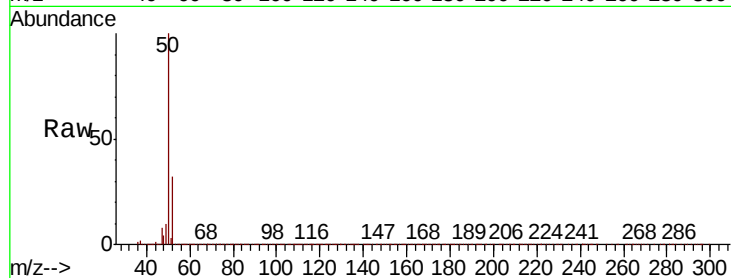
ClientSampled :

Tot Ion: 50 Resp: 941922

Ion Ratio Lower Upper

50 100

52 32.3 26.6 40.0



#4

Vinyl Chloride

Concen: 141.308 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013370.D

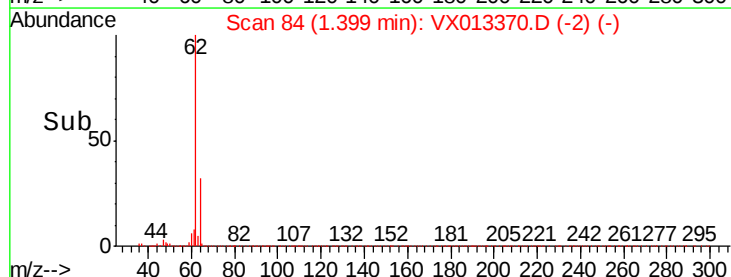
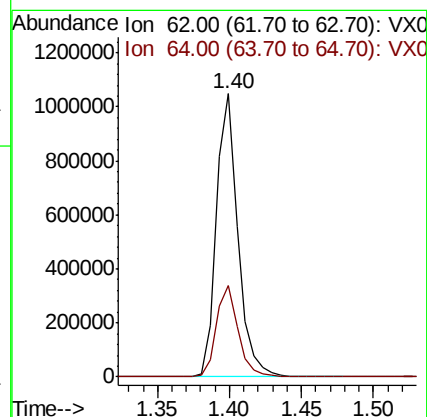
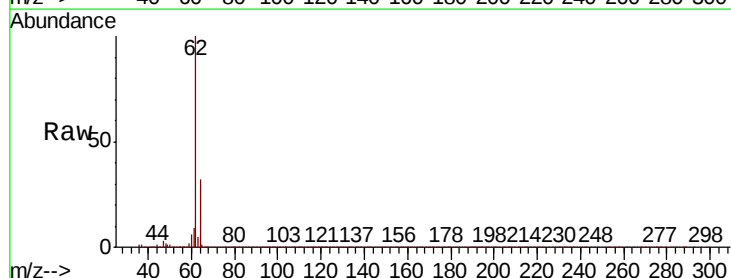
Acq: 11 Nov 2019 17:39

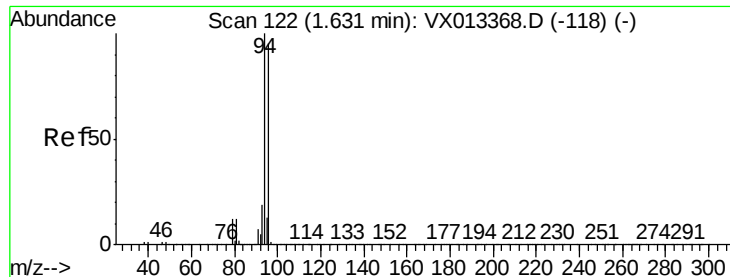
Tgt Ion: 62 Resp: 1086744

Ion Ratio Lower Upper

62 100

64 32.2 25.4 38.2





#5

Bromomethane

Concen: 163.506 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.01 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

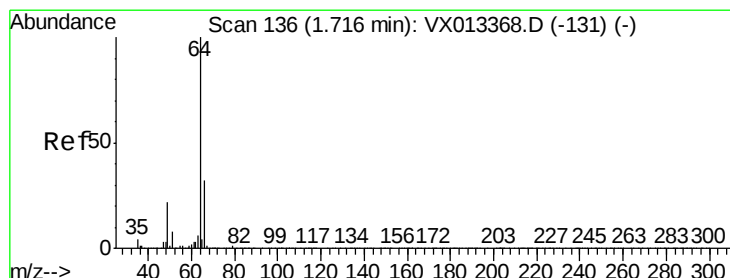
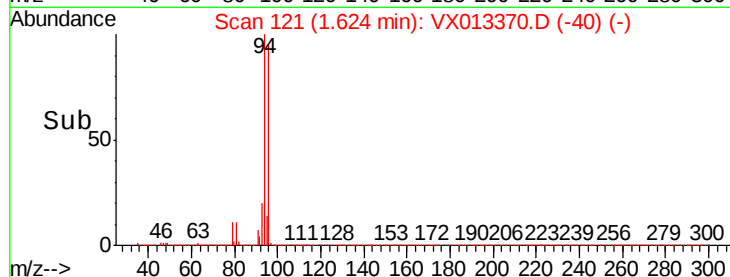
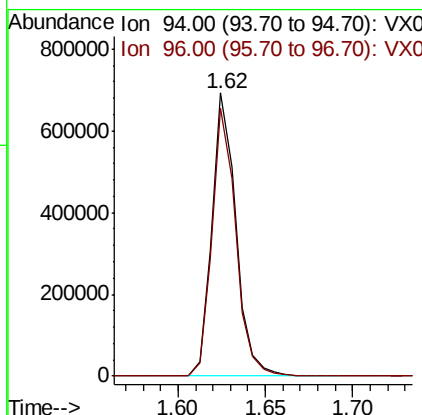
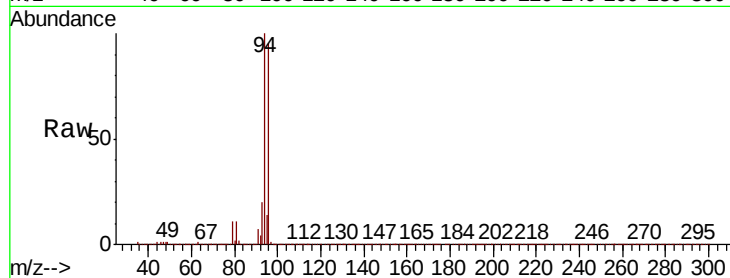
ClientSampleId :

Tot Ion: 94 Resp: 657560

Ion Ratio Lower Upper

94 100

96 94.7 75.7 113.5



#6

Chloroethane

Concen: 121.443 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX013370.D

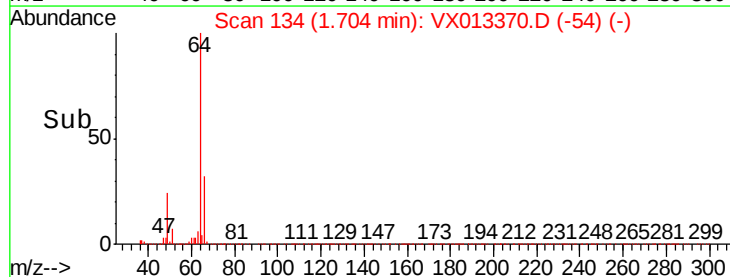
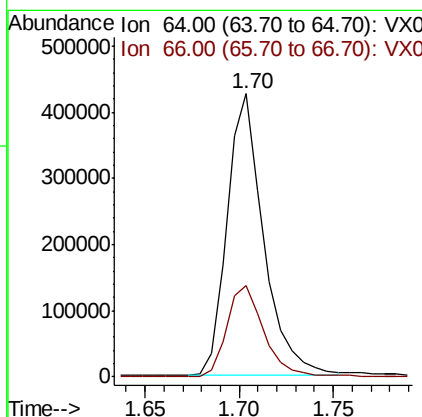
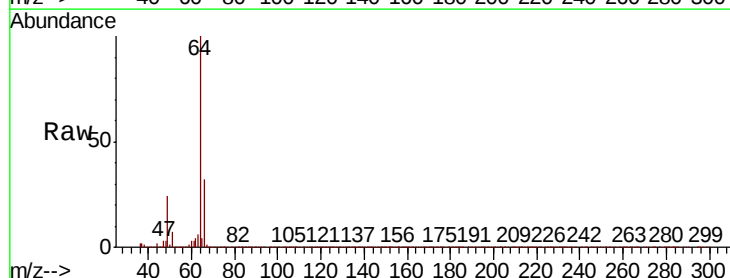
Acq: 11 Nov 2019 17:39

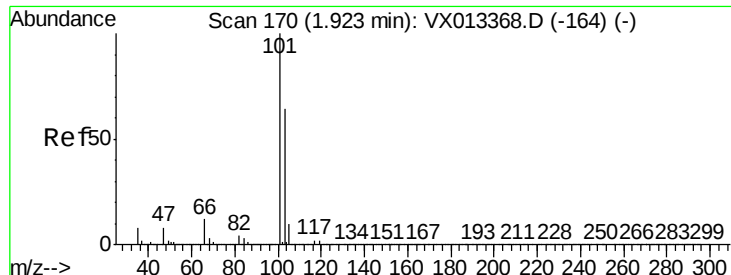
Tgt Ion: 64 Resp: 569472

Ion Ratio Lower Upper

64 100

66 32.3 25.5 38.3



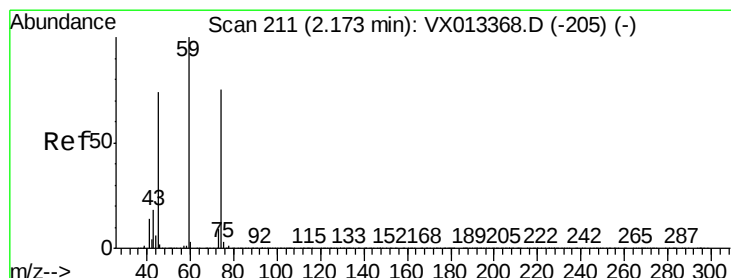
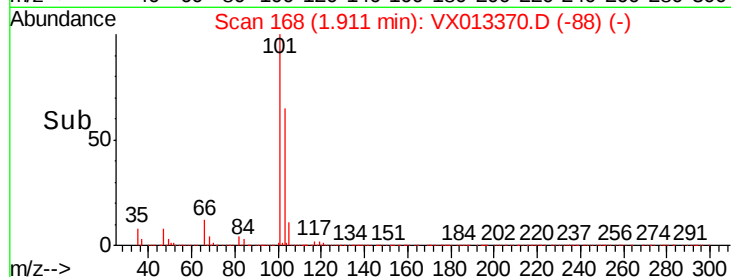
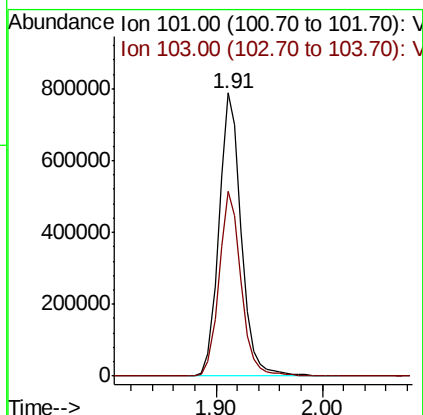
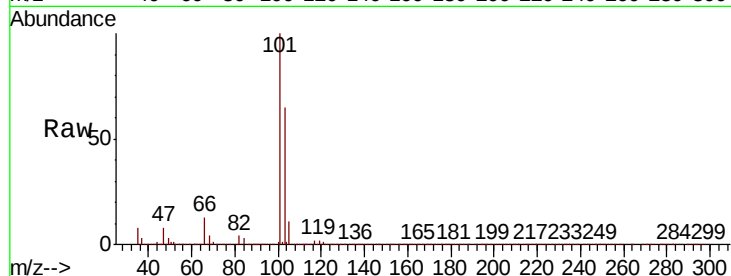


#7

Trichlorofluoromethane  
Concen: 101.522 ug/l  
RT: 1.91 min Scan# 168  
Delta R.T. -0.01 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Instrument :  
MSVOA\_X  
ClientSampled :

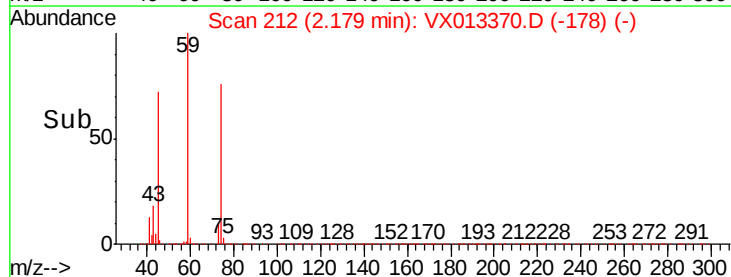
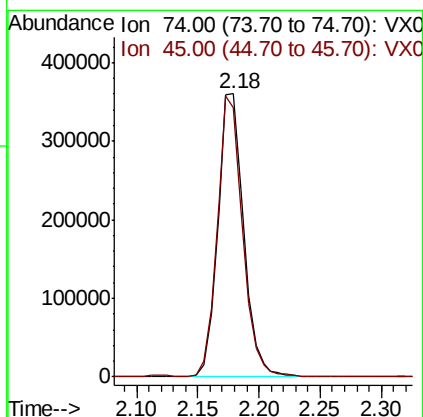
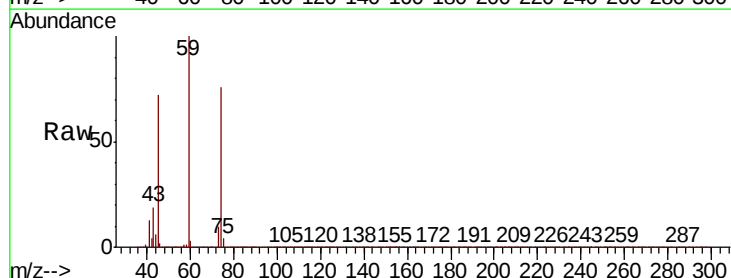
Tot Ion:101 Resp: 1141587  
Ion Ratio Lower Upper  
101 100  
103 65.3 51.2 76.8

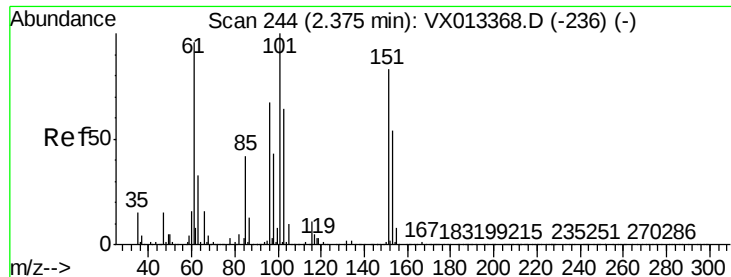


#8

Diethyl Ether  
Concen: 129.557 ug/l  
RT: 2.18 min Scan# 212  
Delta R.T. 0.01 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion: 74 Resp: 528562  
Ion Ratio Lower Upper  
74 100  
45 97.1 19.5 175.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 98.734 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

ClientSampleId :

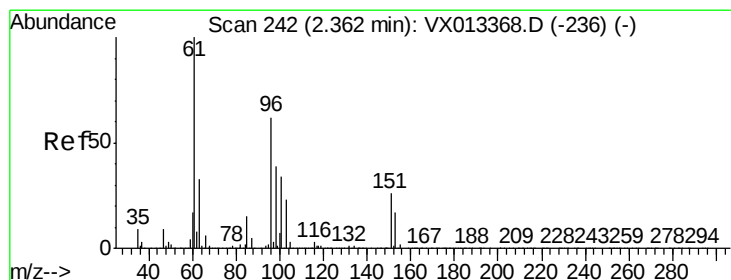
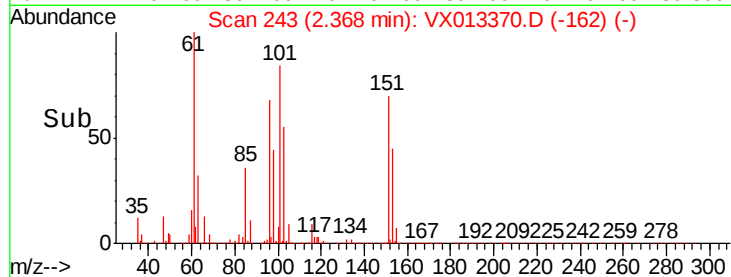
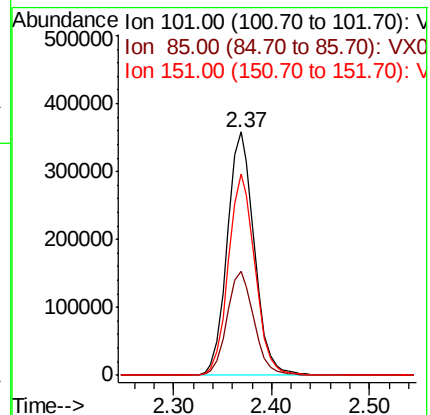
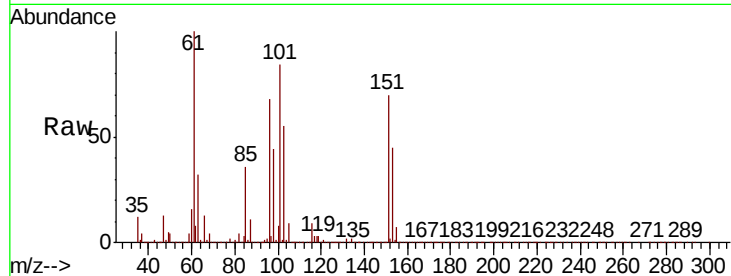
Tot Ion:101 Resp: 682606

Ion Ratio Lower Upper

101 100

85 42.7 0.0 83.2

151 82.2 0.0 163.8



#10

1,1-Dichloroethene

Concen: 108.120 ug/l

RT: 2.36 min Scan# 241

Delta R.T. -0.01 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

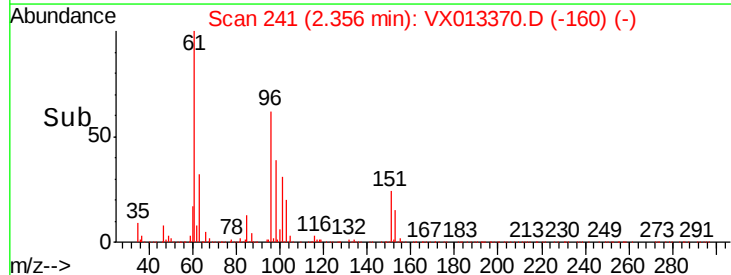
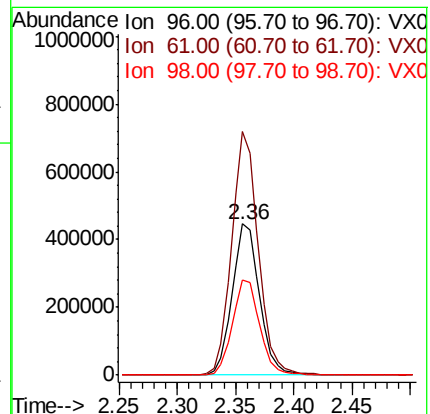
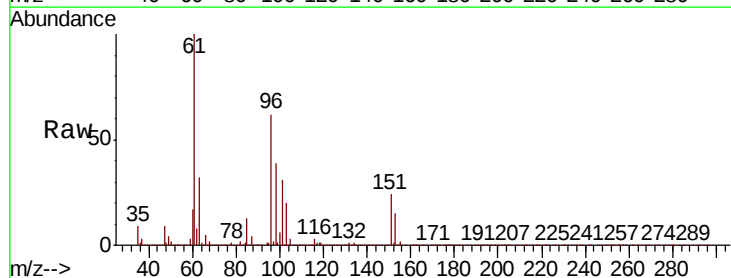
Tgt Ion: 96 Resp: 724394

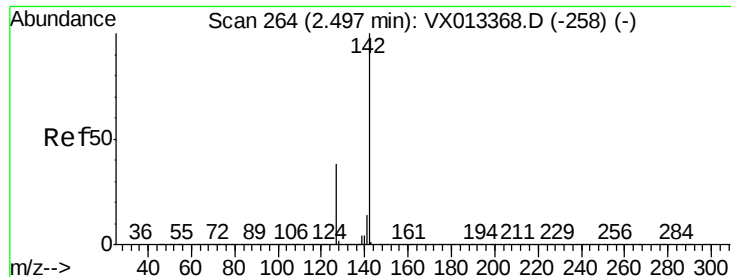
Ion Ratio Lower Upper

96 100

61 161.2 128.9 193.3

98 63.3 49.7 74.5

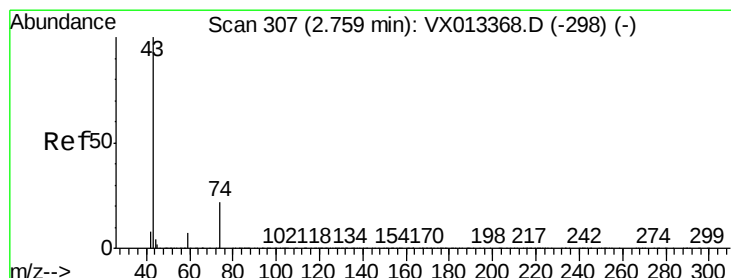
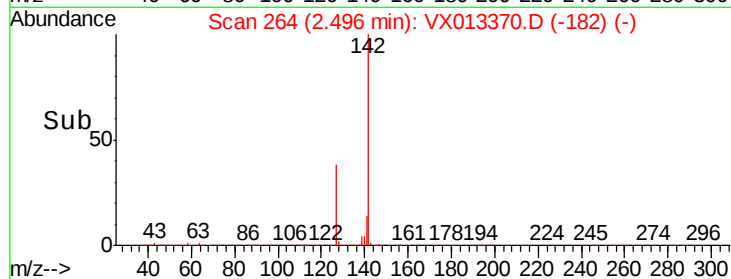
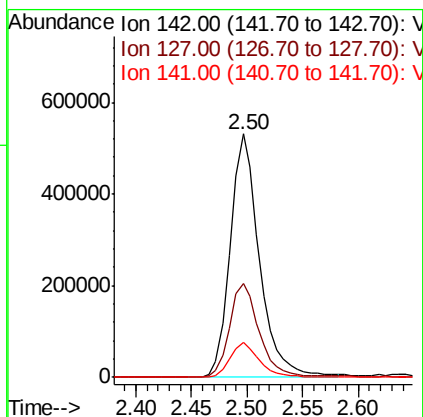
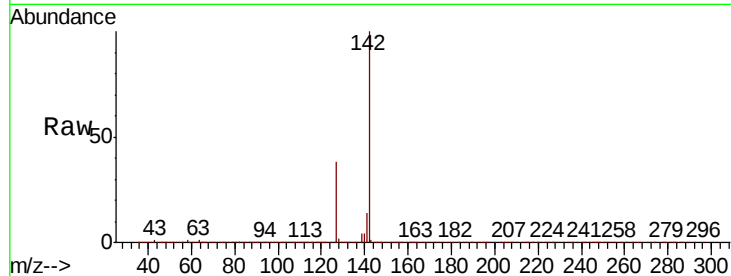




#11  
Methvl Iodide  
Concen: 112.202 ug/l  
RT: 2.50 min Scan# 264  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

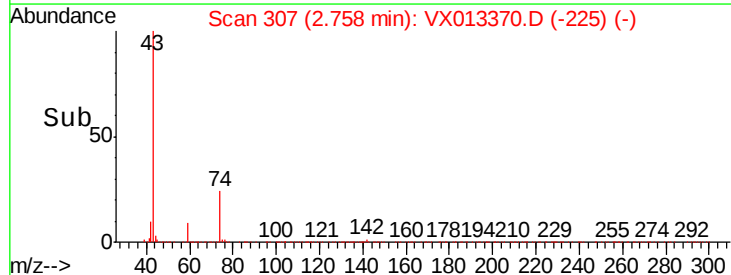
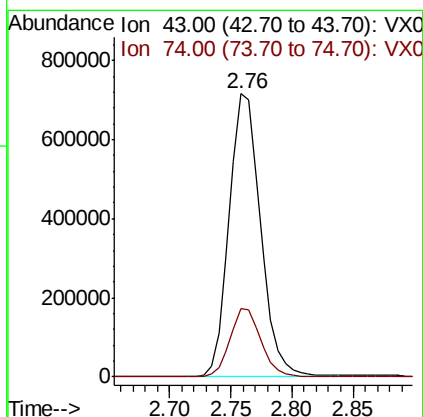
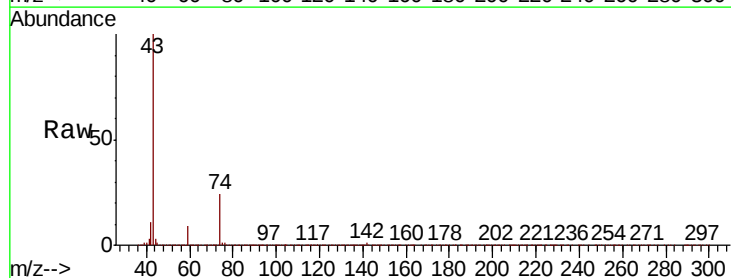
Instrument :  
MSVOA\_X  
ClientSampleId :

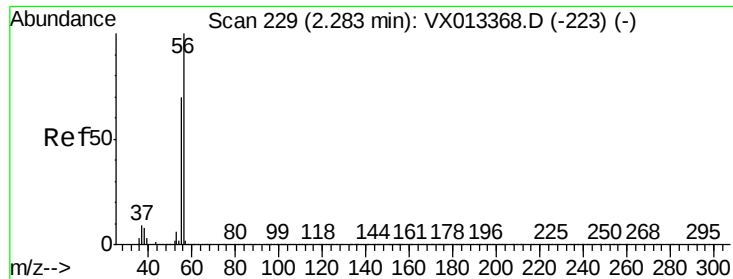
Tot Ion:142 Resp: 961205  
Ion Ratio Lower Upper  
142 100  
127 38.4 19.1 57.5  
141 14.1 7.0 21.0



#12  
Methyl Acetate  
Concen: 138.536 ug/l  
RT: 2.76 min Scan# 307  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion: 43 Resp: 1275390  
Ion Ratio Lower Upper  
43 100  
74 23.8 18.0 27.0





#13

Acrolein

Concen: 518.513 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

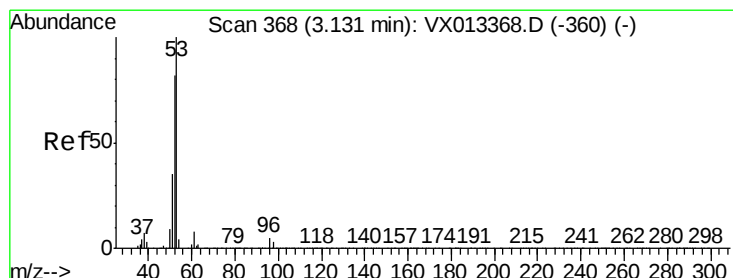
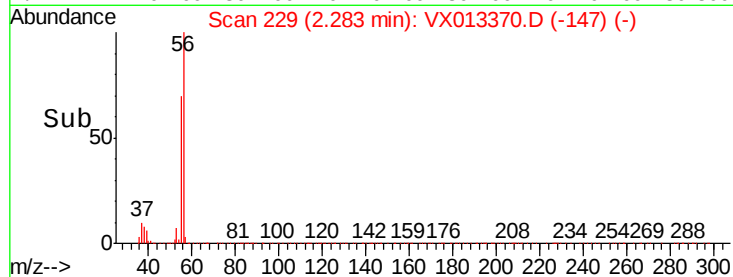
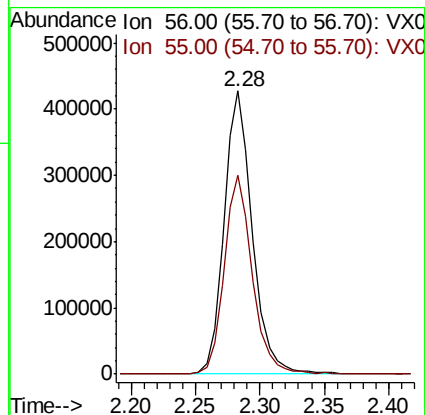
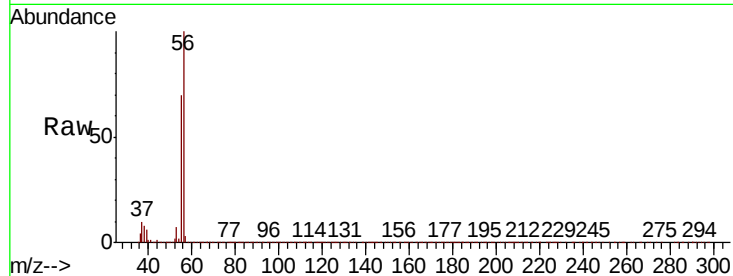
ClientSampleId :

Tot Ion: 56 Resp: 655484

Ion Ratio Lower Upper

56 100

55 69.7 55.8 83.8



#14

Acrylonitrile

Concen: 622.493 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

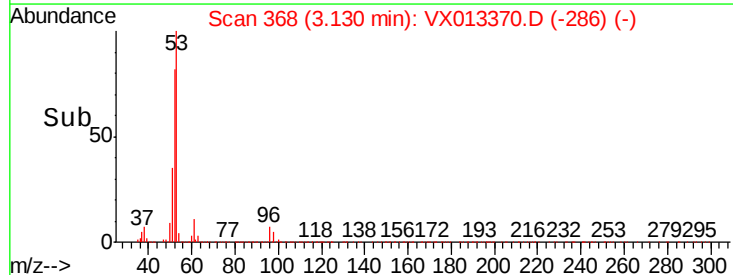
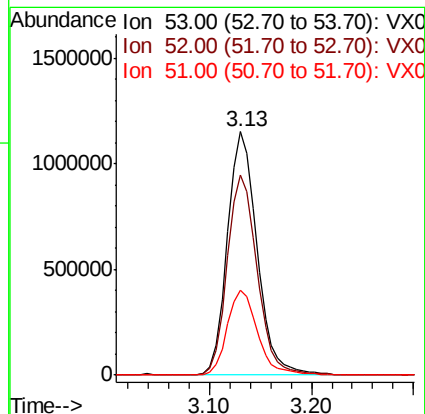
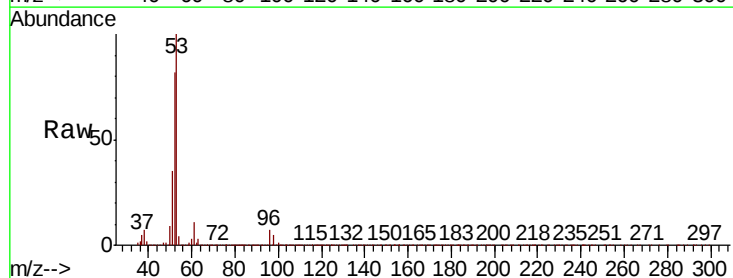
Tgt Ion: 53 Resp: 2322667

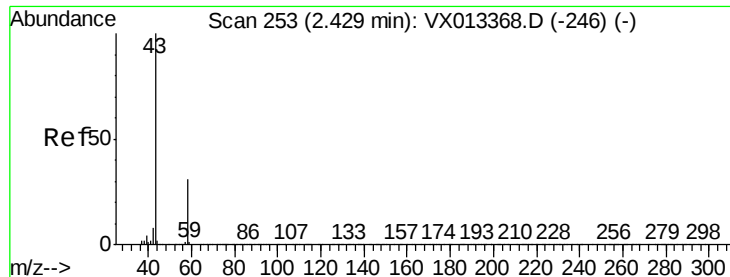
Ion Ratio Lower Upper

53 100

52 82.8 41.0 123.0

51 35.6 17.3 51.9

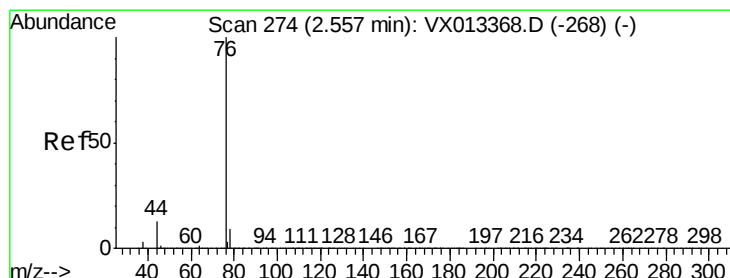
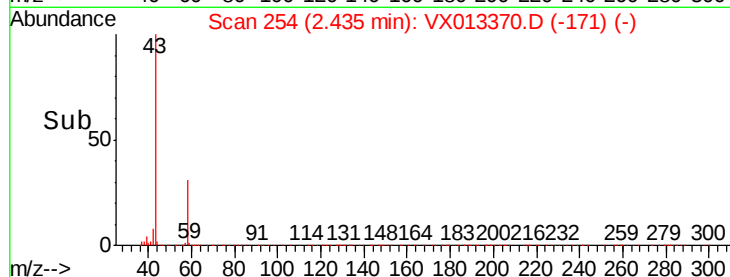
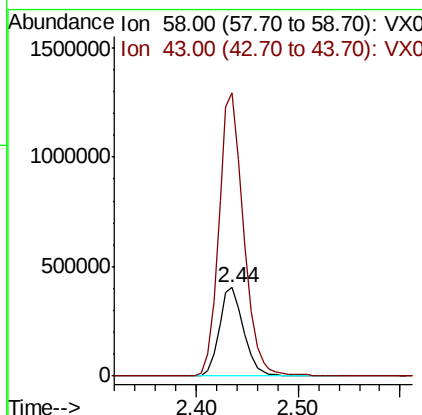
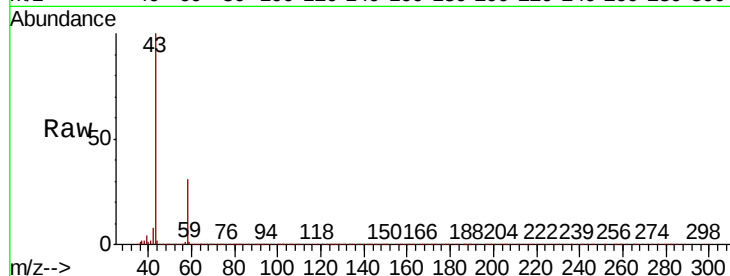




#15  
Acetone  
Concen: 547.291 ug/l  
RT: 2.44 min Scan# 254  
Delta R.T. 0.01 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

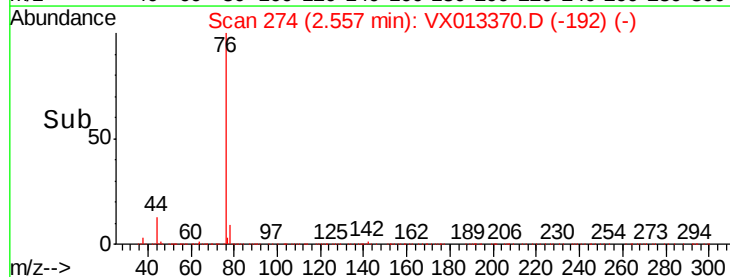
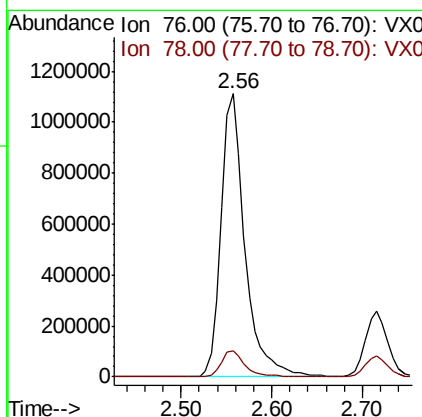
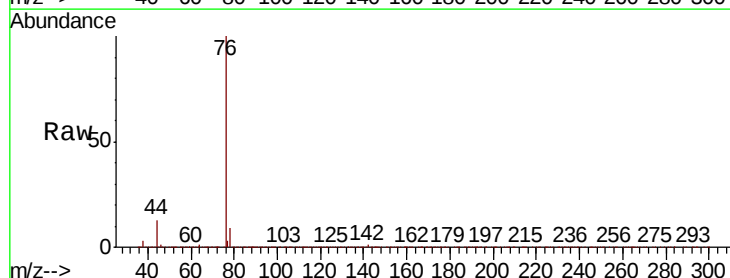
Instrument :  
MSVOA\_X  
ClientSampled :

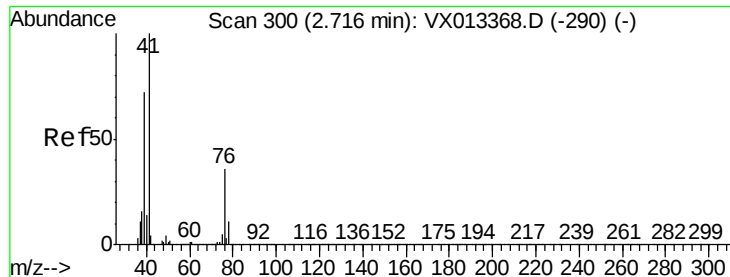
Tot Ion: 58 Resp: 673398  
Ion Ratio Lower Upper  
58 100  
43 319.6 261.4 392.2



#16  
Carbon Disulfide  
Concen: 113.075 ug/l  
RT: 2.56 min Scan# 274  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion: 76 Resp: 2043077  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.4 11.0

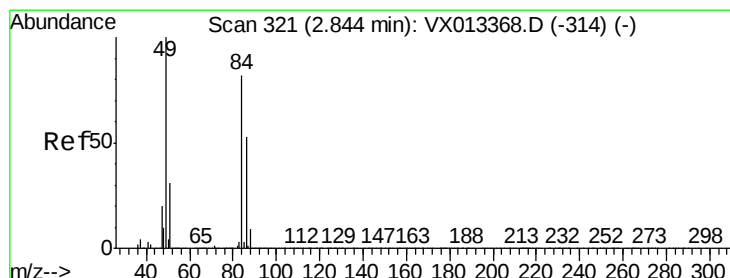
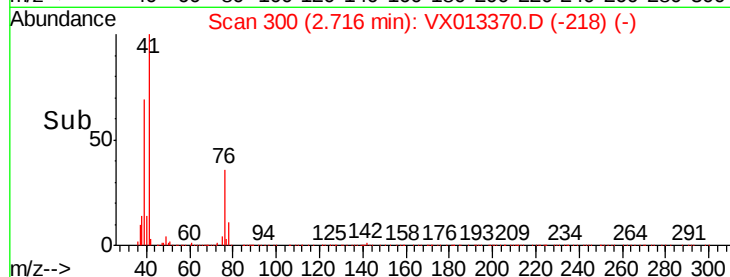
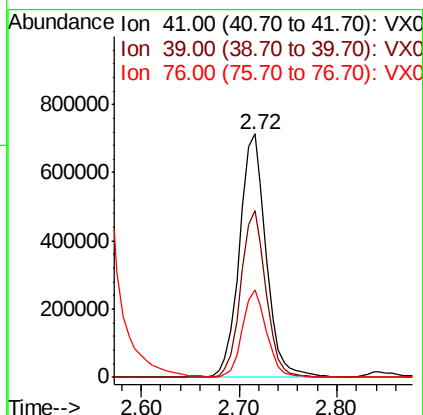
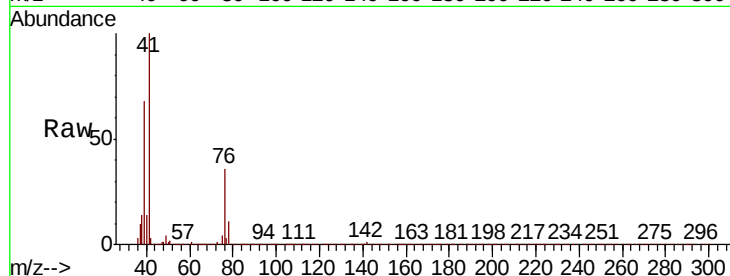




#17  
Allvl chloride  
Concen: 122.766 ug/l  
RT: 2.72 min Scan# 300  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

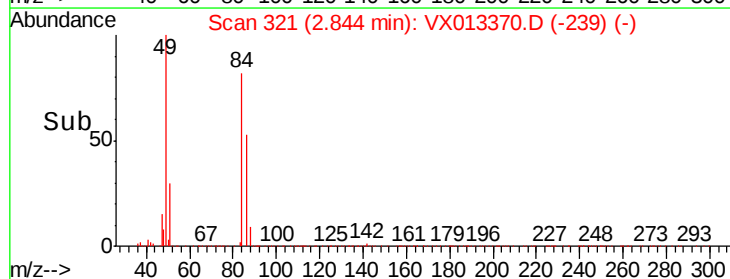
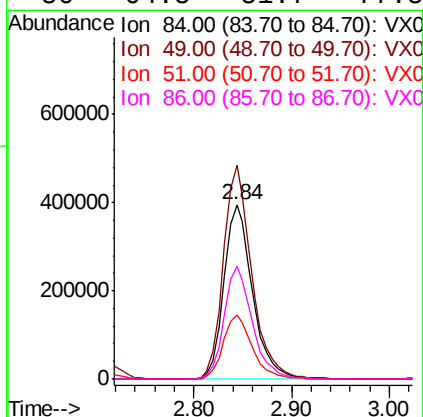
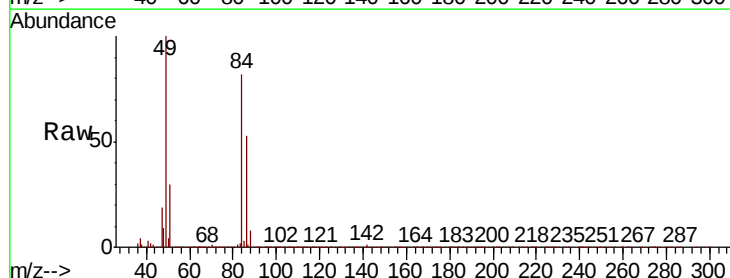
Instrument :  
MSVOA\_X  
ClientSampleId :

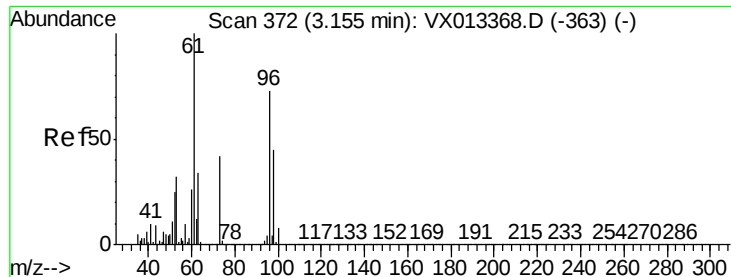
Tot Ion: 41 Resp: 1348168  
Ion Ratio Lower Upper  
41 100  
39 68.4 36.1 108.3  
76 36.0 18.1 54.4



#18  
Methylene Chloride  
Concen: 103.408 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion: 84 Resp: 798348  
Ion Ratio Lower Upper  
84 100  
49 122.4 96.8 145.2  
51 36.8 30.0 45.0  
86 64.5 51.7 77.5





#19

trans-1,2-Dichloroethene

Concen: 107.967 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :  
MSVOA\_X  
ClientSampleId :

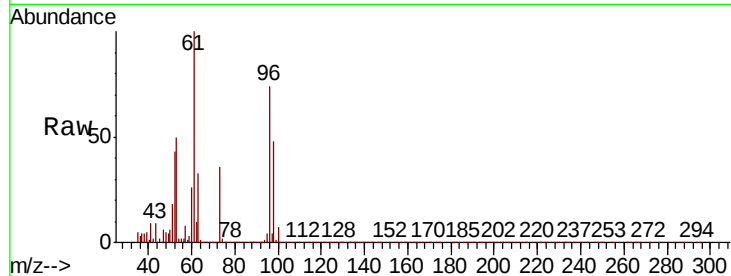
Tot Ion: 96 Resp: 767101

Ion Ratio Lower Upper

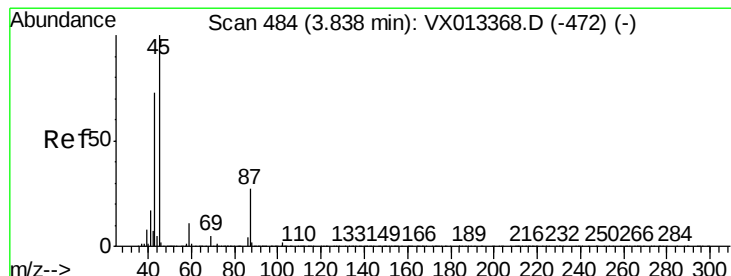
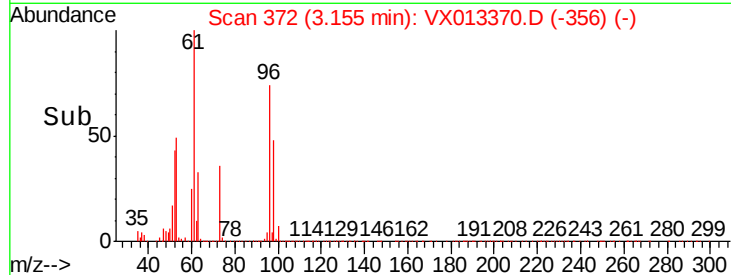
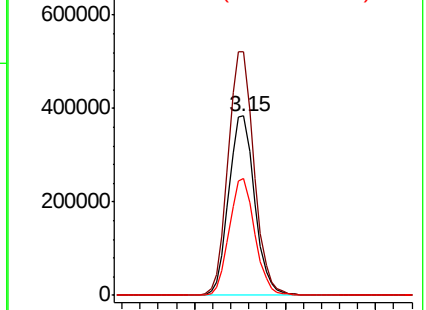
96 100

61 135.7 109.9 164.9

98 65.4 49.7 74.5



Abundance Ion 96.00 (95.70 to 96.70): VX0  
Ion 61.00 (60.70 to 61.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0



#20

Diisopropyl ether

Concen: 119.792 ug/l

RT: 3.84 min Scan# 485

Delta R.T. 0.01 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Tgt Ion: 45 Resp: 2529685

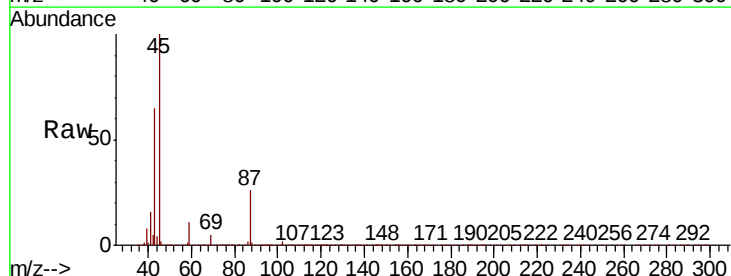
Ion Ratio Lower Upper

45 100

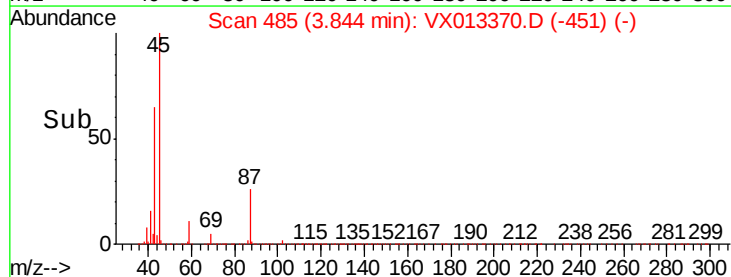
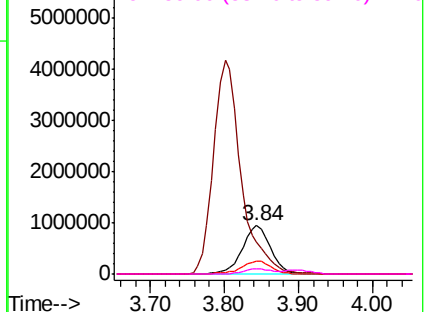
43 64.0 67.7 101.5#

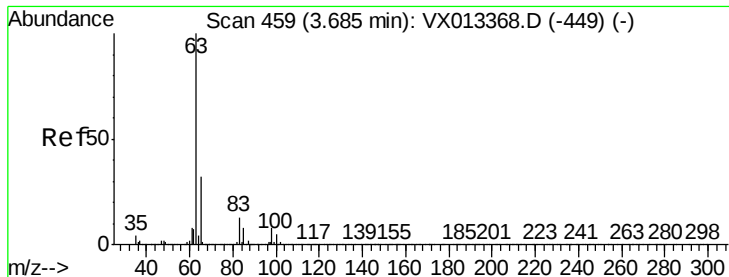
87 25.7 21.5 32.3

59 11.2 8.5 12.7



Abundance Ion 45.00 (44.70 to 45.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 87.00 (86.70 to 87.70): VX0  
Ion 59.00 (58.70 to 59.70): VX0





#21

1,1-Dichloroethane

Concen: 110.744 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :  
MSVOA\_X  
ClientSampleId :

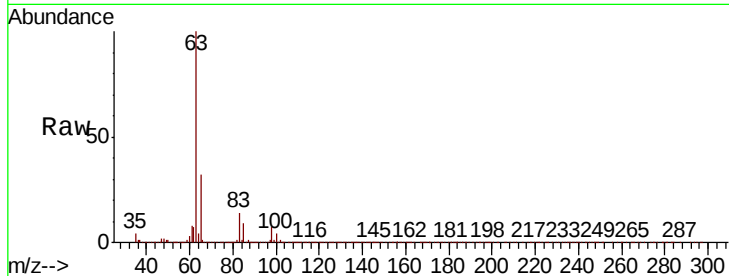
Tot Ion: 63 Resp: 1393272

Ion Ratio Lower Upper

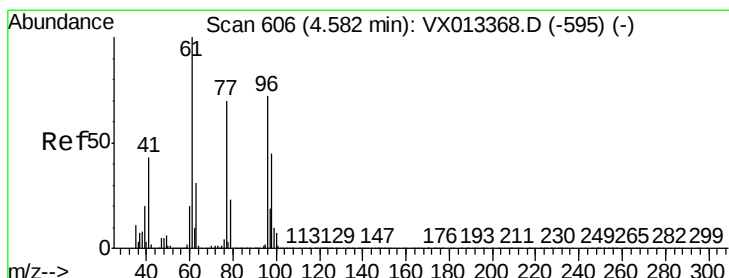
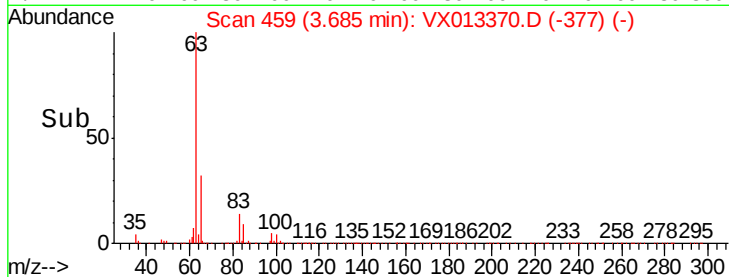
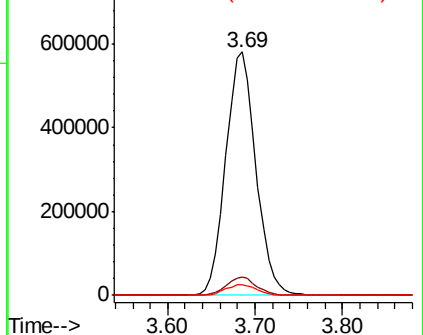
63 100

98 7.3 4.0 11.9

100 4.3 2.5 7.5



Abundance Ion 63.00 (62.70 to 63.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): VX0



#22

cis-1,2-Dichloroethene

Concen: 108.957 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

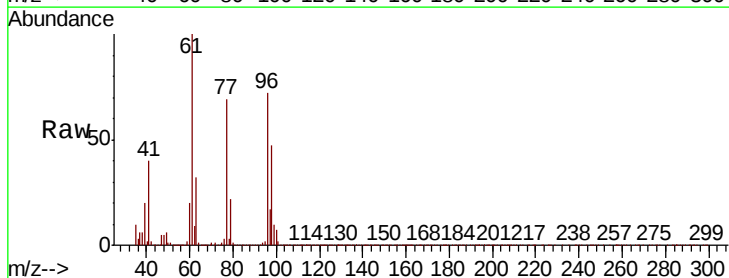
Tgt Ion: 96 Resp: 881075

Ion Ratio Lower Upper

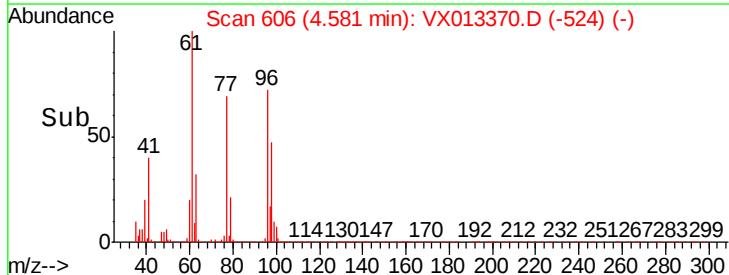
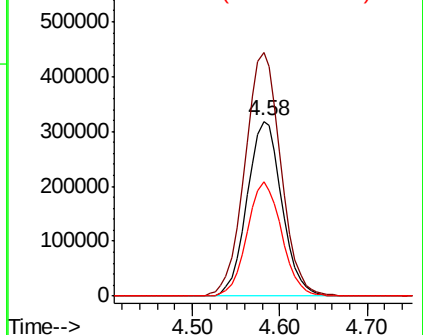
96 100

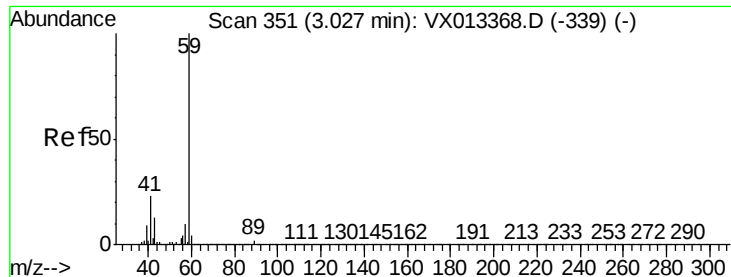
61 143.5 117.0 175.6

98 64.5 51.1 76.7



Abundance Ion 96.00 (95.70 to 96.70): VX0  
Ion 61.00 (60.70 to 61.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0





#23

tert-Butyl Alcohol

Concen: 57.121 ug/l

RT: 2.76 min Scan# 307

Delta R.T. -0.27 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

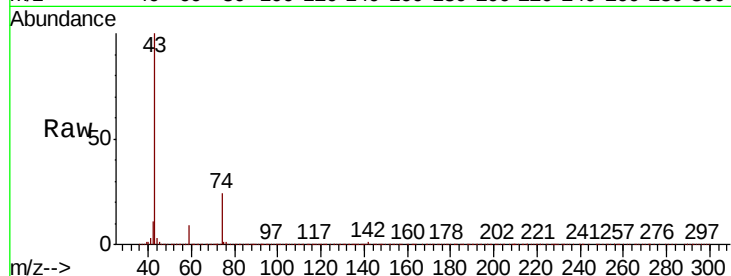
ClientSampleId :

Tot Ion: 59 Resp: 109266

Ion Ratio Lower Upper

59 100

52 0.1 0.1 0.1



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

2.76

60000

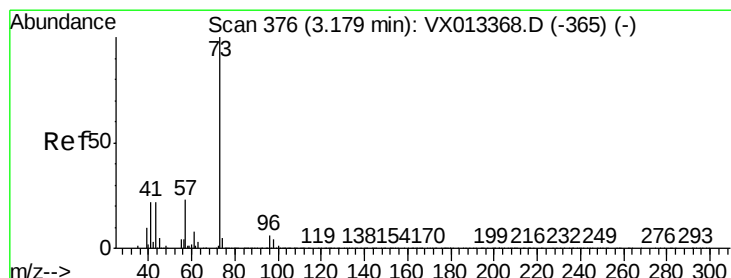
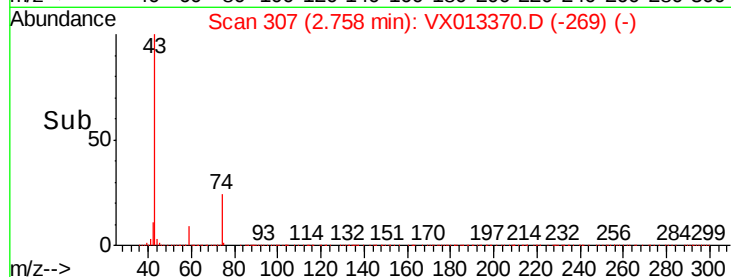
40000

20000

0

Time-->

2.70 2.75 2.80 2.85



#24

Methyl tert-Butyl Ether

Concen: 103.363 ug/l

RT: 3.18 min Scan# 376

Delta R.T. -0.00 min

Lab File: VX013370.D

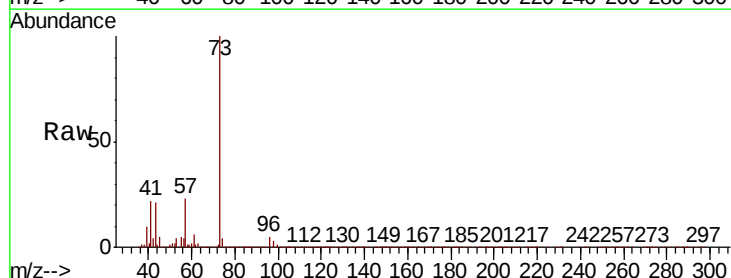
Acq: 11 Nov 2019 17:39

Tgt Ion: 73 Resp: 2375787

Ion Ratio Lower Upper

73 100

43 21.5 17.0 25.6



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

1200000

1000000

800000

600000

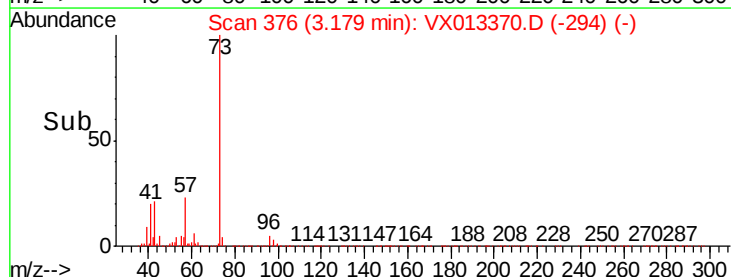
400000

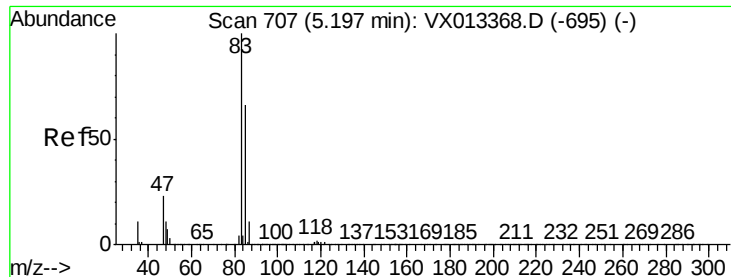
200000

0

Time-->

3.10 3.20 3.30





#25

Chloroform

Concen: 102.472 ug/l

RT: 5.20 min Scan# 707

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

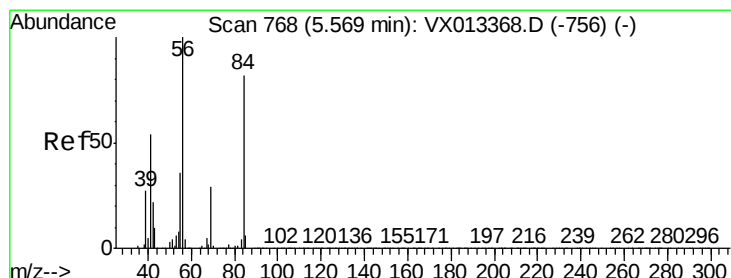
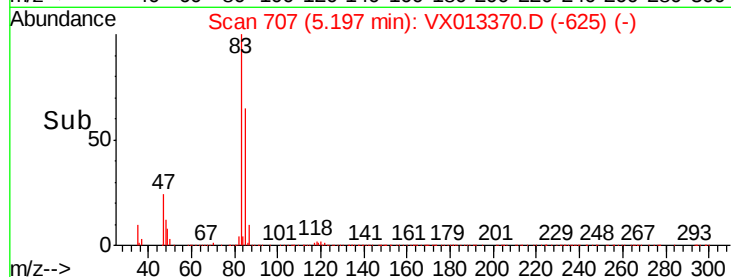
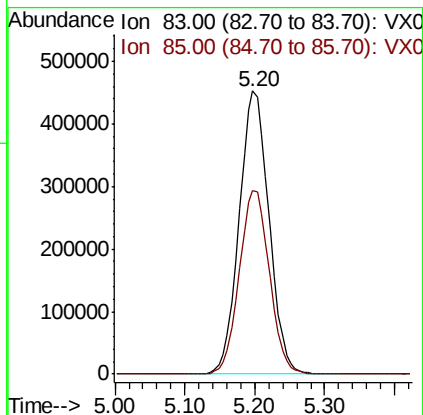
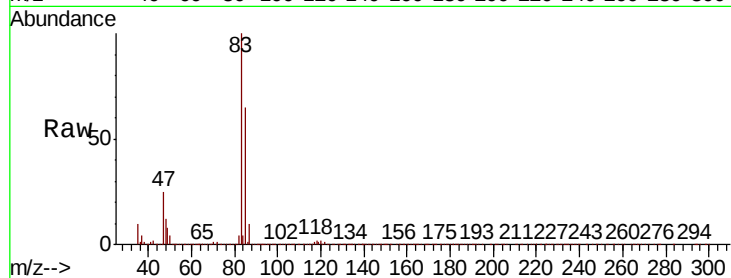
ClientSampleId :

Tot Ion: 83 Resp: 1337268

Ion Ratio Lower Upper

83 100

85 64.8 52.4 78.6



#26

Cyclohexane

Concen: 112.355 ug/l

RT: 5.57 min Scan# 768

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

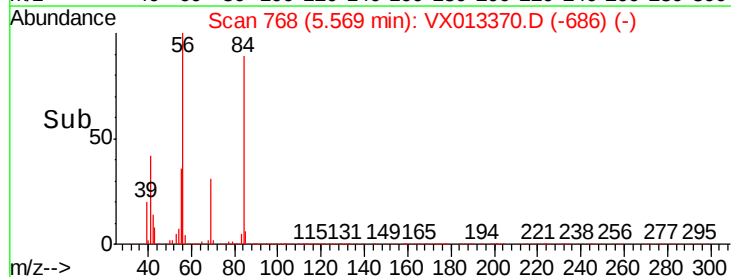
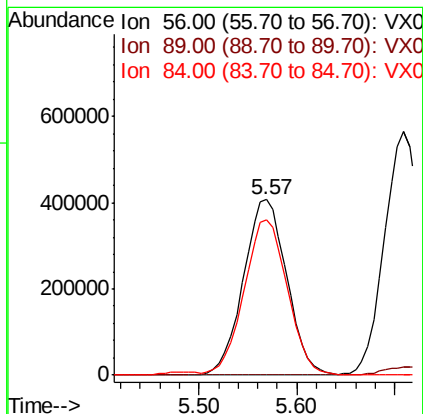
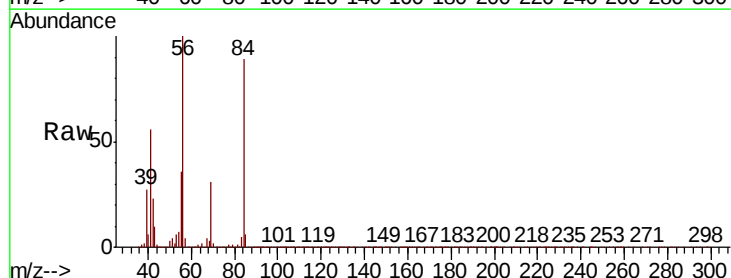
Tgt Ion: 56 Resp: 1248652

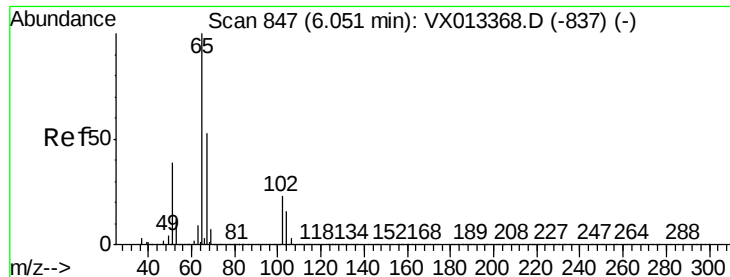
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0#

84 88.8 70.5 105.7

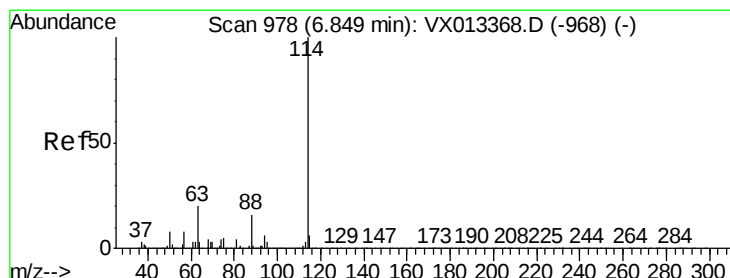
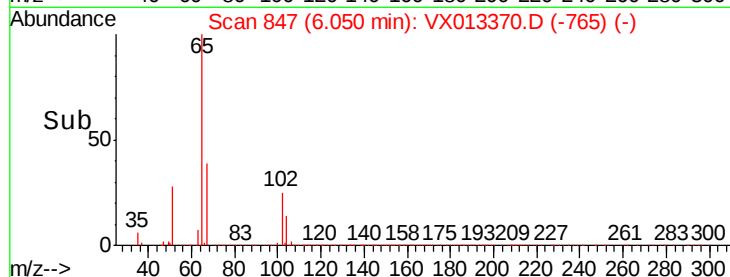
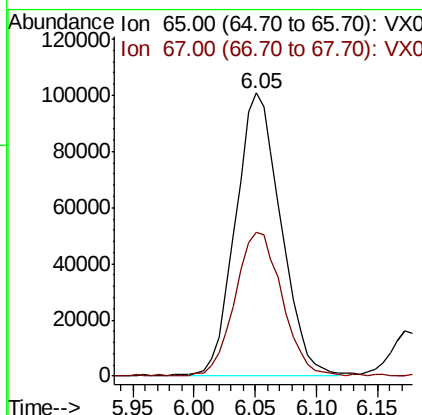
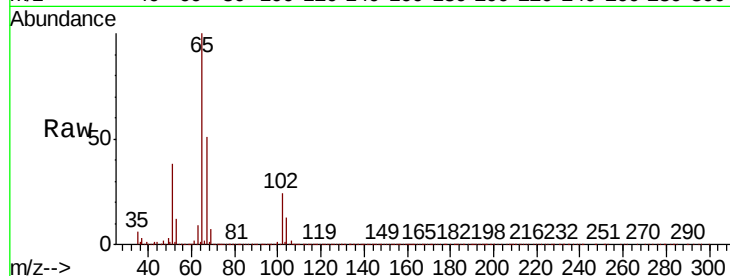




#27  
 1,2-Dichloroethane-d4  
 Concen: 30.194 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

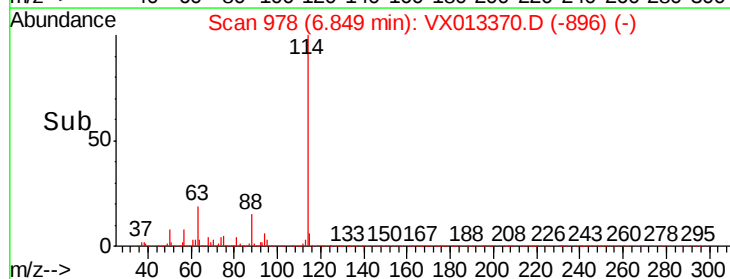
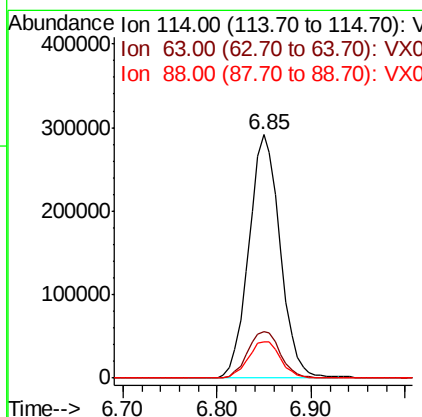
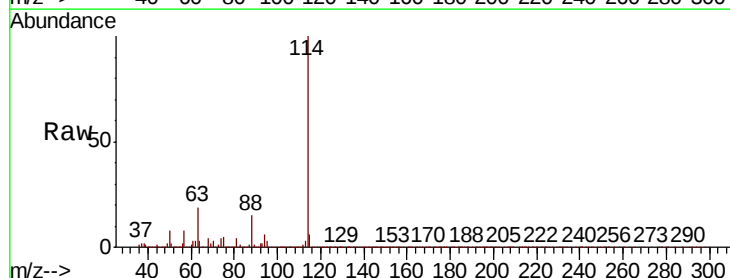
Instrument :  
 MSVOA\_X  
 ClientSampled :

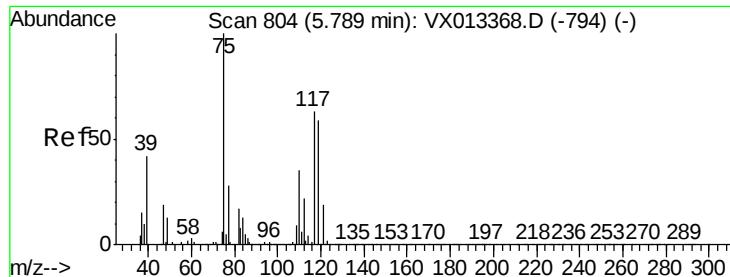
Tot Ion: 65 Resp: 257515  
 Ion Ratio Lower Upper  
 65 100  
 67 52.2 41.0 61.6



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

Tgt Ion: 114 Resp: 677049  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 16.1 24.1  
 88 15.6 12.3 18.5

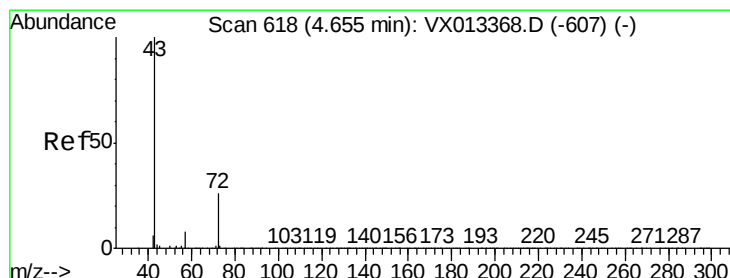
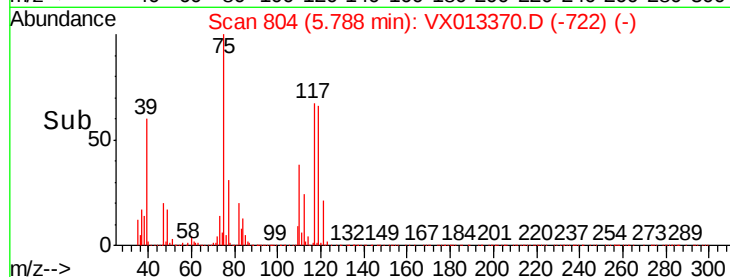
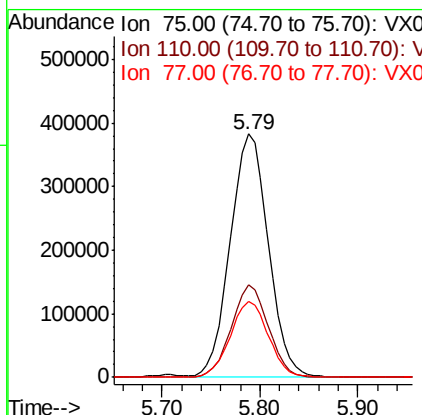
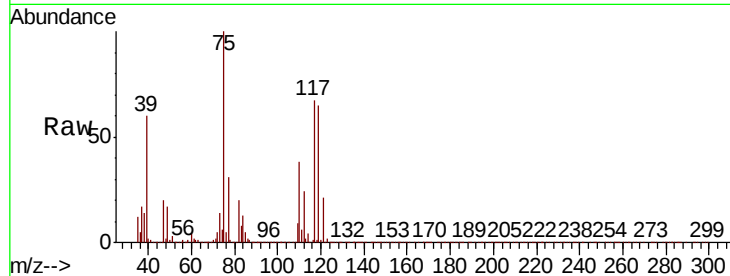




#29  
 1,1-Dichloropropene  
 Concen: 100.001 ug/l  
 RT: 5.79 min Scan# 804  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

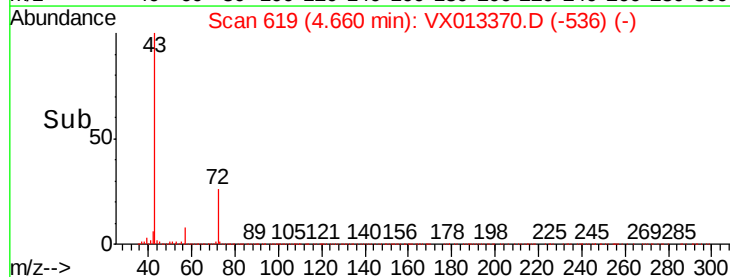
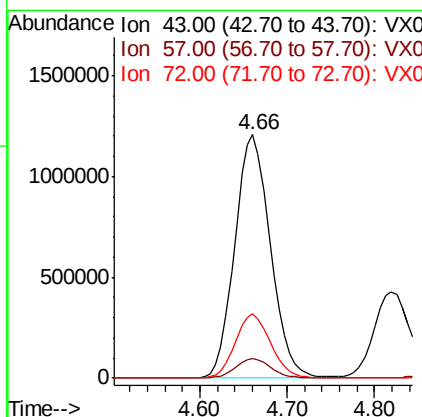
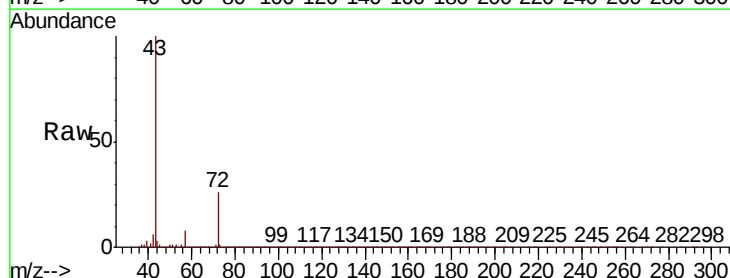
Instrument :  
 MSVOA\_X  
 ClientSampled :

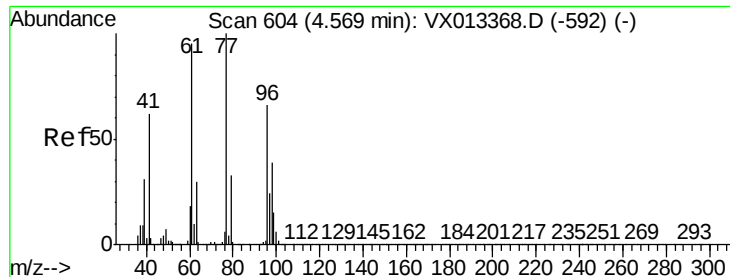
Tot Ion: 75 Resp: 1031568  
 Ion Ratio Lower Upper  
 75 100  
 110 37.0 0.0 74.6  
 77 31.2 0.0 62.6



#30  
 2-Butanone  
 Concen: 593.676 ug/l  
 RT: 4.66 min Scan# 619  
 Delta R.T. 0.01 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

Tgt Ion: 43 Resp: 3406946  
 Ion Ratio Lower Upper  
 43 100  
 57 8.0 6.1 9.1  
 72 26.0 20.5 30.7





#31

2,2-Dichloropropane

Concen: 94.906 ug/l

RT: 4.57 min Scan# 604

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

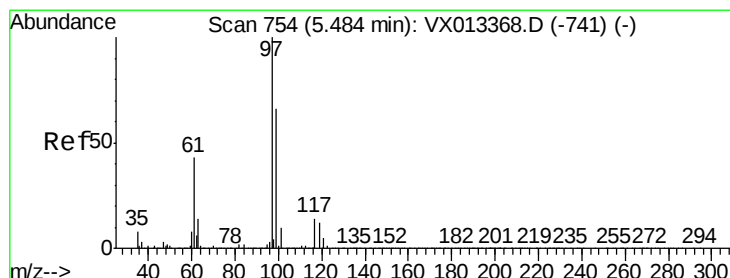
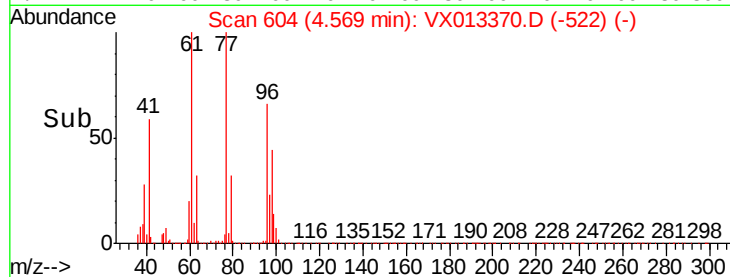
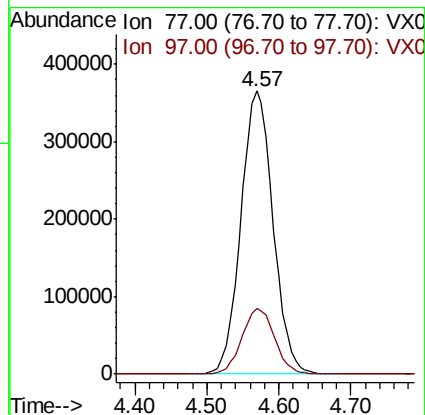
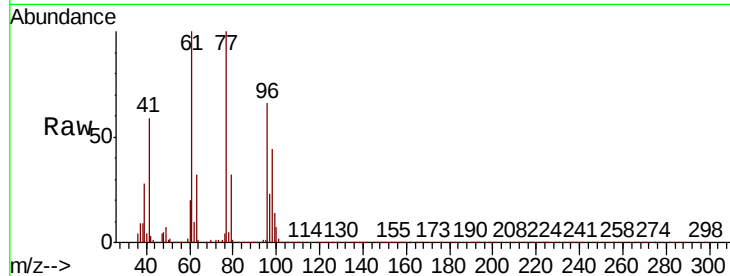
ClientSampleId :

Tot Ion: 77 Resp: 1129465

Ion Ratio Lower Upper

77 100

97 23.8 19.2 28.8



#32

1,1,1-Trichloroethane

Concen: 93.384 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

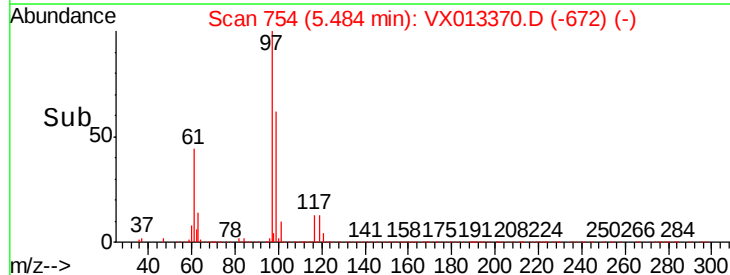
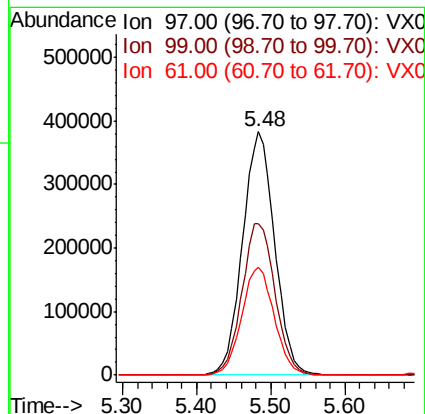
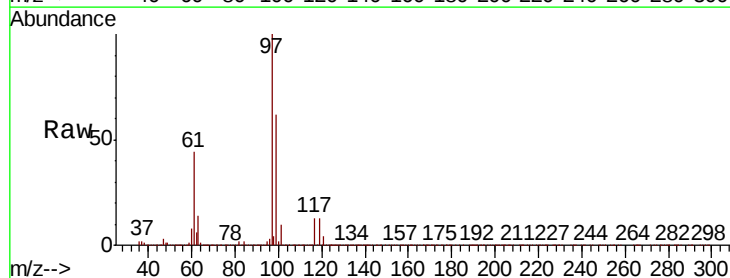
Tgt Ion: 97 Resp: 1156852

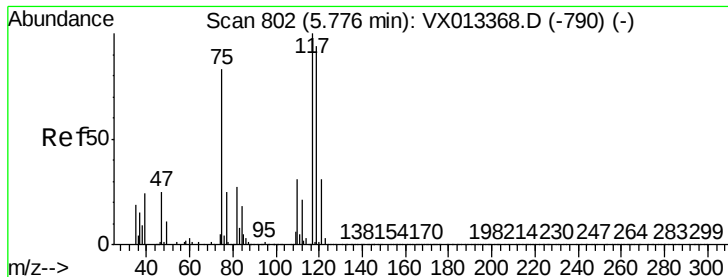
Ion Ratio Lower Upper

97 100

99 64.4 52.5 78.7

61 44.9 36.1 54.1





#33

Carbon Tetrachloride

Concen: 95.111 ug/l

RT: 5.77 min Scan# 801

Delta R.T. -0.01 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

ClientSampleId :

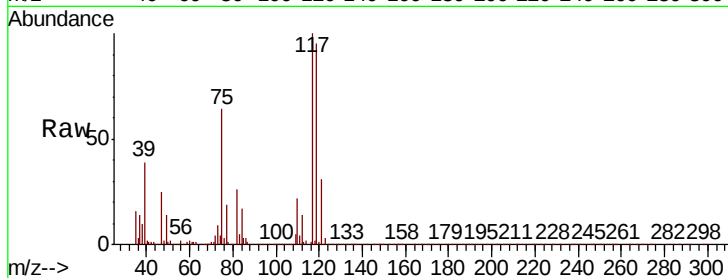
Tot Ion:117 Resp: 1016869

Ion Ratio Lower Upper

117 100

119 94.8 75.0 112.6

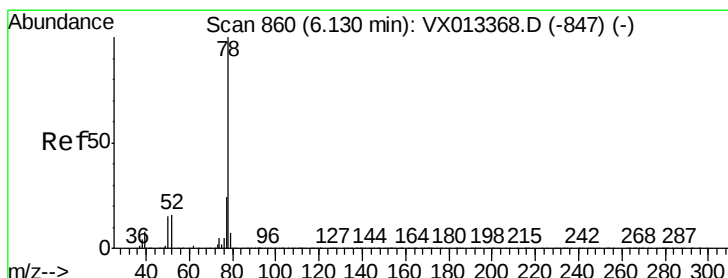
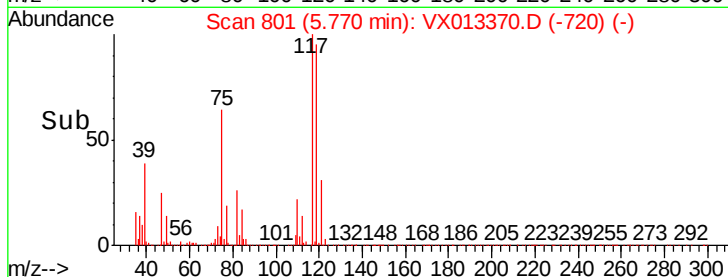
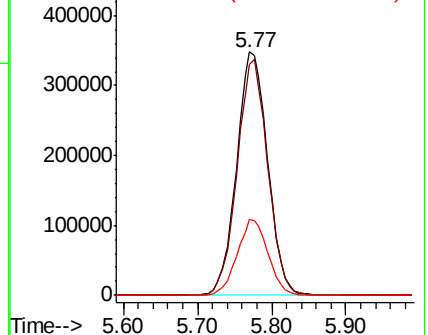
121 31.1 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 104.383 ug/l

RT: 6.13 min Scan# 860

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

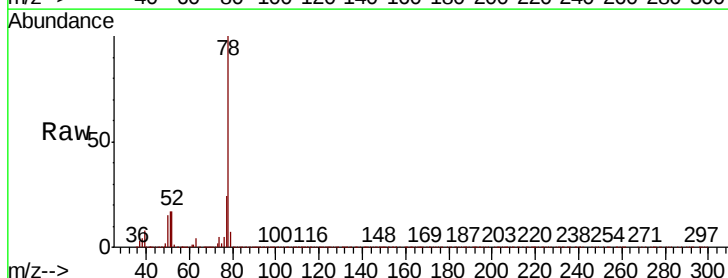
Tgt Ion: 78 Resp: 3147725

Ion Ratio Lower Upper

78 100

77 24.1 19.3 28.9

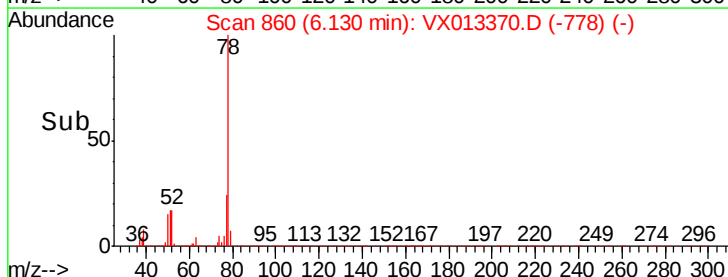
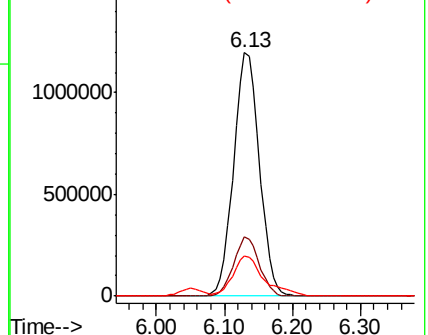
51 16.6 12.2 18.4

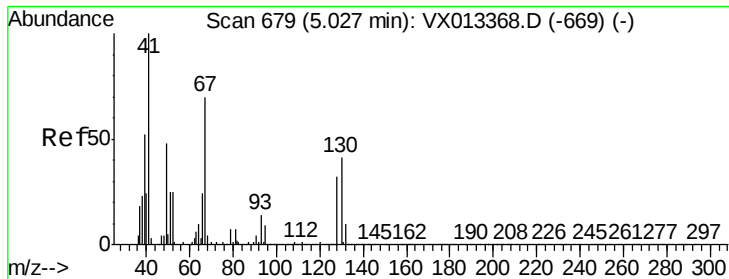


Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

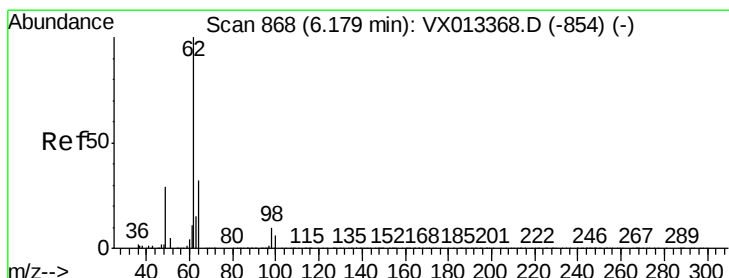
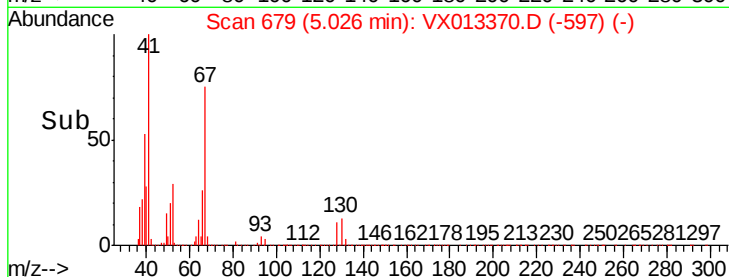
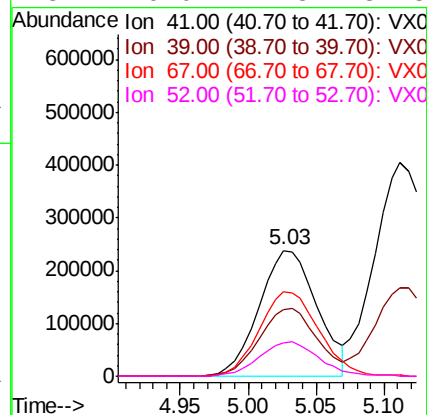
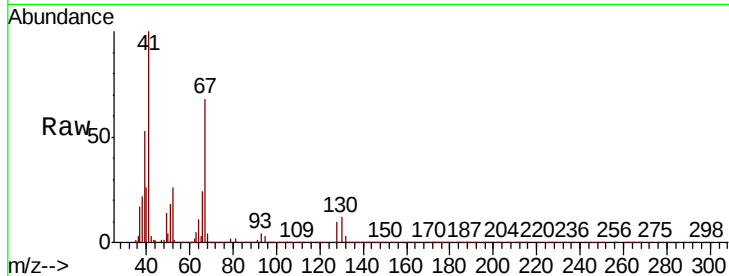




#35  
Methacrylonitrile  
Concen: 120.749 ug/l  
RT: 5.03 min Scan# 679  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

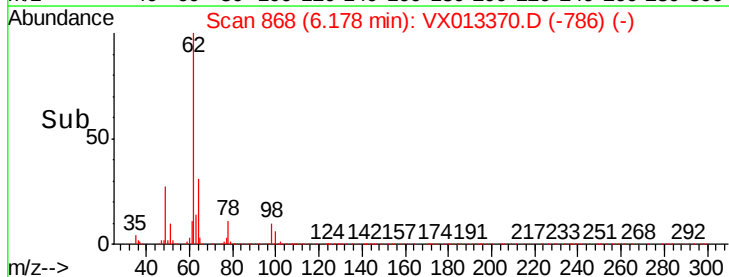
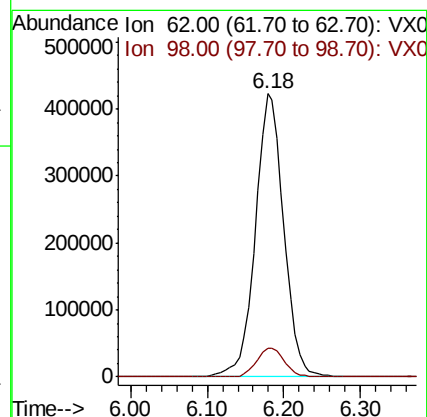
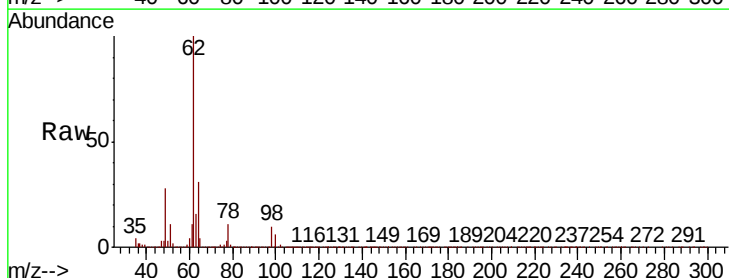
Instrument :  
MSVOA\_X  
ClientSampleId :

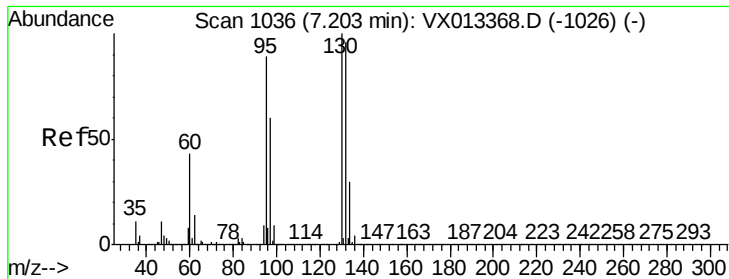
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 705949 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 52.6  | 25.9  | 77.8   |
| 67       | 67.6  | 35.1  | 105.5  |
| 52       | 26.0  | 12.5  | 37.5   |



#36  
1,2-Dichloroethane  
Concen: 96.997 ug/l  
RT: 6.18 min Scan# 868  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 62    | Resp: | 1090270 |
| Ion      | Ratio | Lower | Upper   |
| 62       | 100   |       |         |
| 98       | 9.9   | 8.2   | 12.2    |





#37

Trichloroethene

Concen: 102.948 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

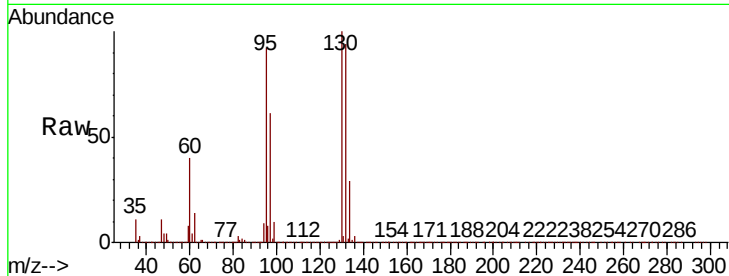
ClientSampled :

Tot Ion:130 Resp: 854344

Ion Ratio Lower Upper

130 100

95 92.2 71.3 106.9



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

400000

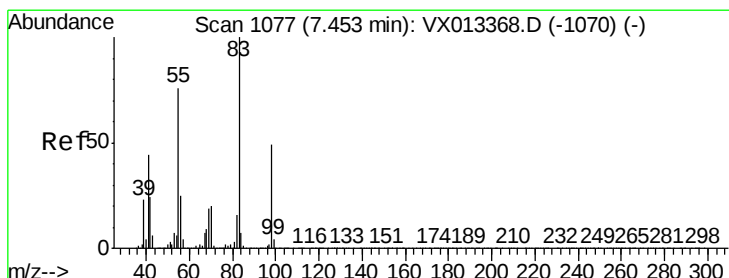
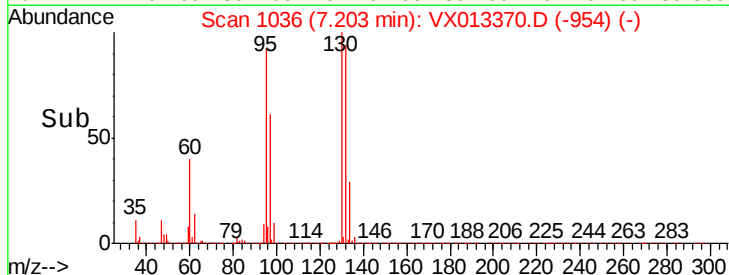
300000

200000

100000

0

Time-->



#38

Methylcyclohexane

Concen: 100.130 ug/l

RT: 7.45 min Scan# 1077

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

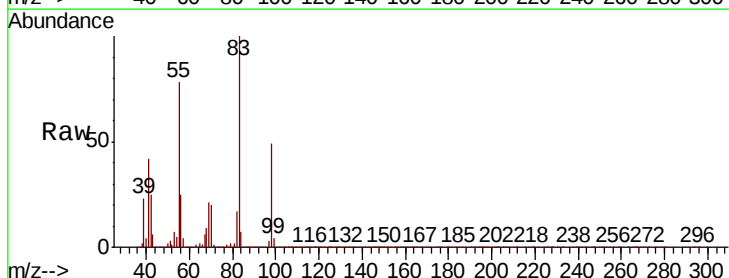
Tgt Ion: 83 Resp: 1273322

Ion Ratio Lower Upper

83 100

55 76.7 37.9 113.7

98 49.8 25.1 75.3



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

800000

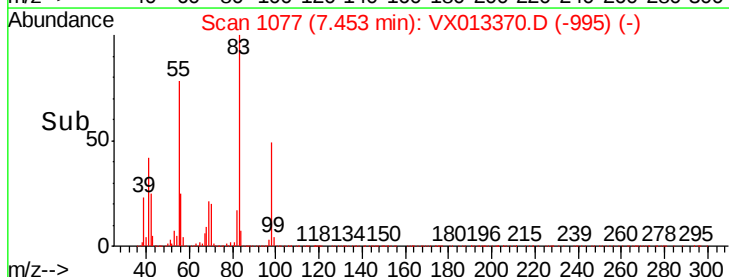
600000

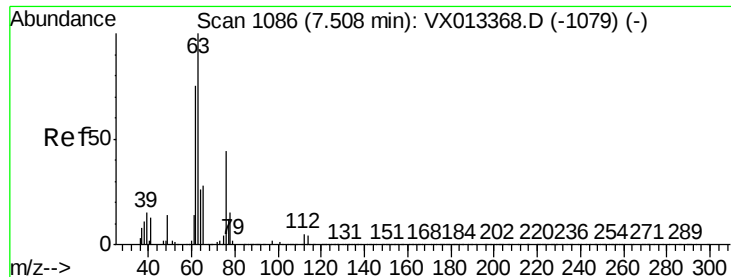
400000

200000

0

Time-->





#39

1,2-Dichloropropane

Concen: 109.698 ug/l

RT: 7.51 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

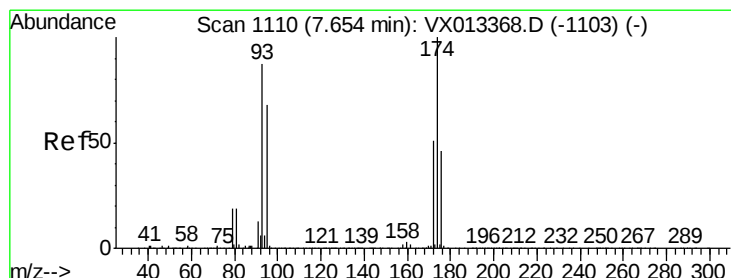
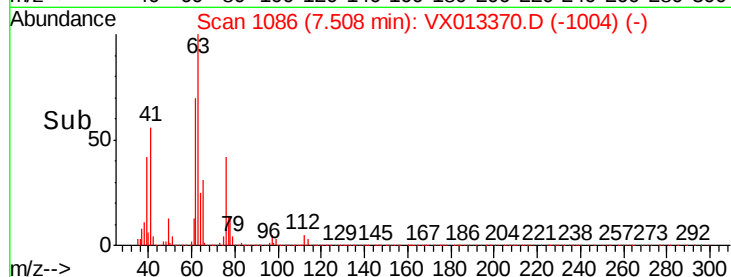
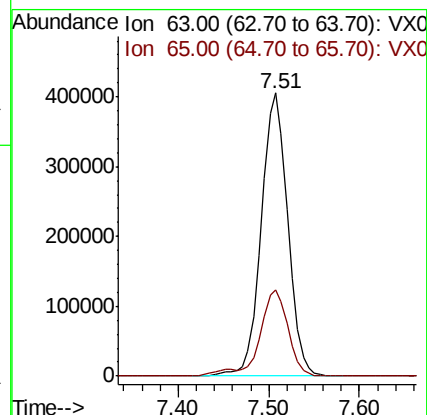
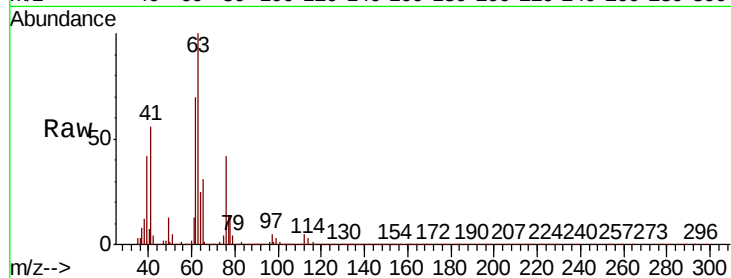
ClientSampleId :

Tot Ion: 63 Resp: 819366

Ion Ratio Lower Upper

63 100

65 30.5 23.8 35.8



#40

Dibromomethane

Concen: 100.883 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

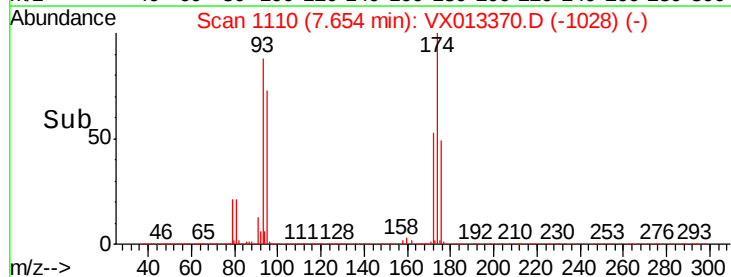
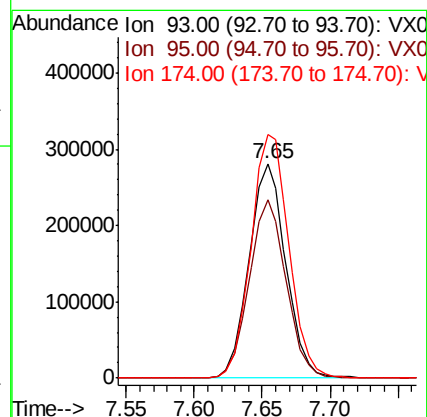
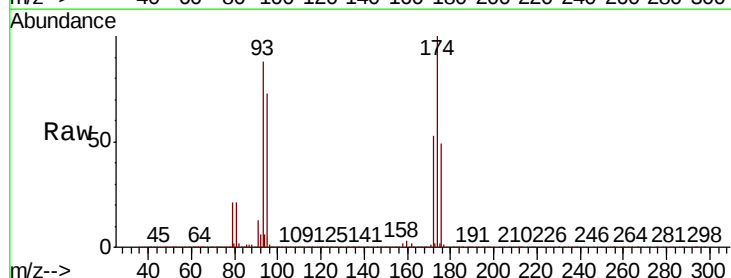
Tgt Ion: 93 Resp: 531121

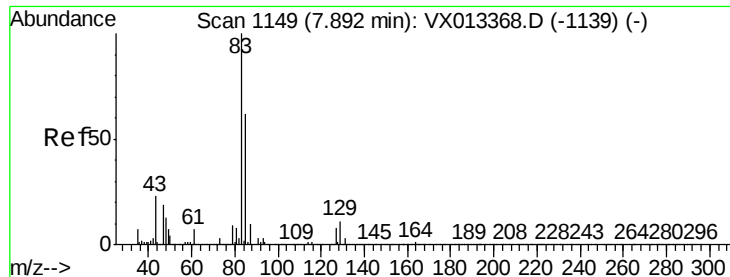
Ion Ratio Lower Upper

93 100

95 83.4 0.0 160.8

174 117.5 0.0 228.8





#41

Bromodichloromethane

Concen: 101.807 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :  
MSVOA\_X  
ClientSampleId :

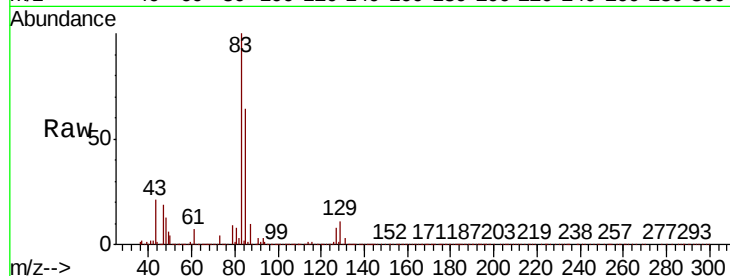
Tot Ion: 83 Resp: 1078322

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 64.2  | 49.3  | 73.9  |
| 127 | 8.2   | 6.6   | 10.0  |

83 100

85 64.2 49.3 73.9

127 8.2 6.6 10.0

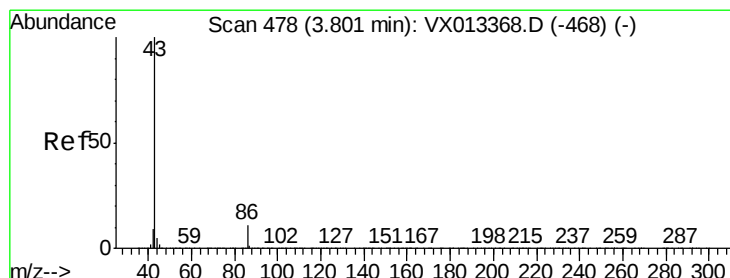
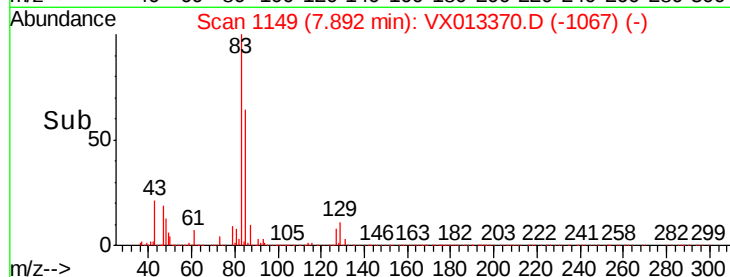
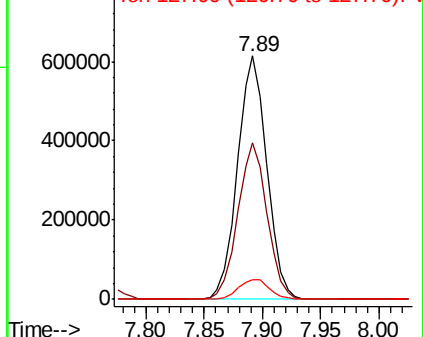


Abundance

Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#42

Vinyl Acetate

Concen: 556.373 ug/l

RT: 3.80 min Scan# 478

Delta R.T. -0.00 min

Lab File: VX013370.D

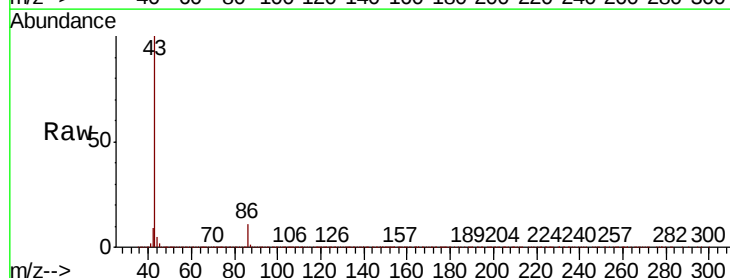
Acq: 11 Nov 2019 17:39

Tgt Ion: 43 Resp: 10774219

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 9.8   | 7.6   | 11.4  |

43 100

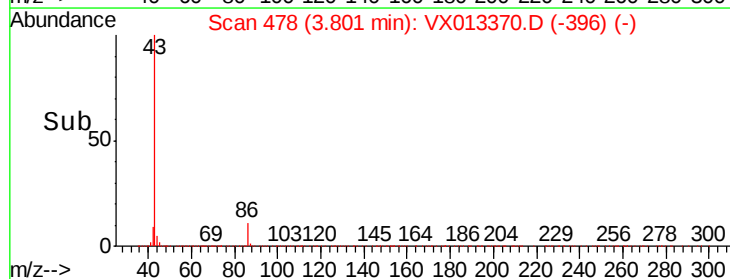
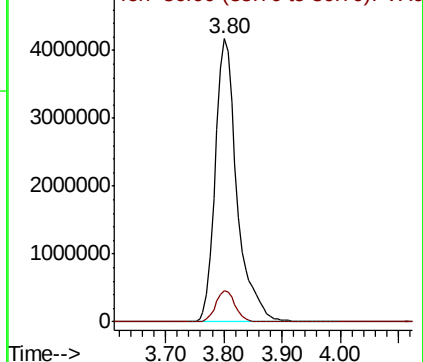
86 9.8 7.6 11.4

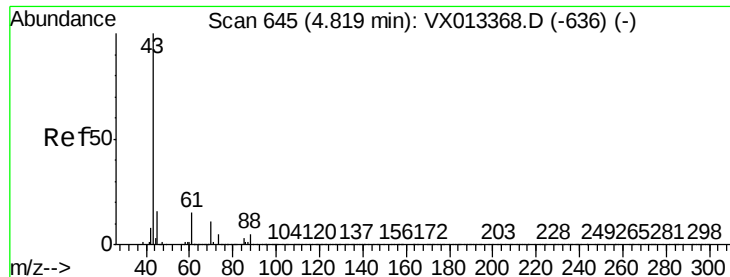


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

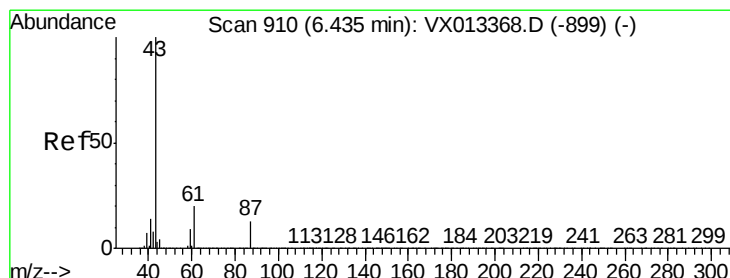
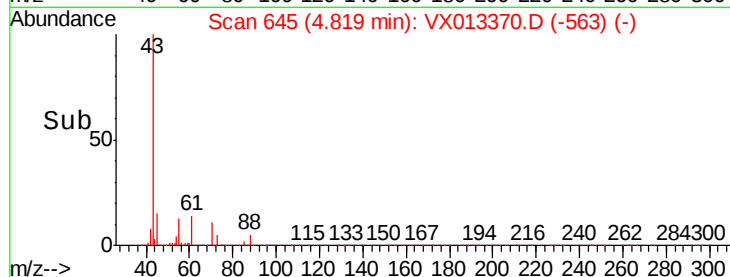
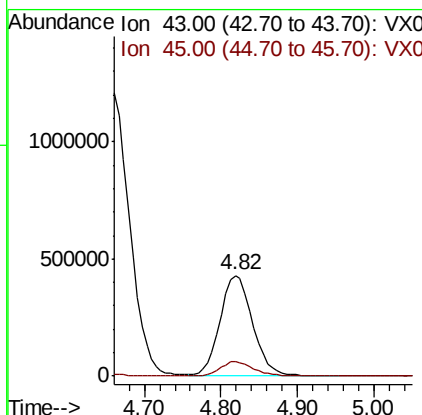
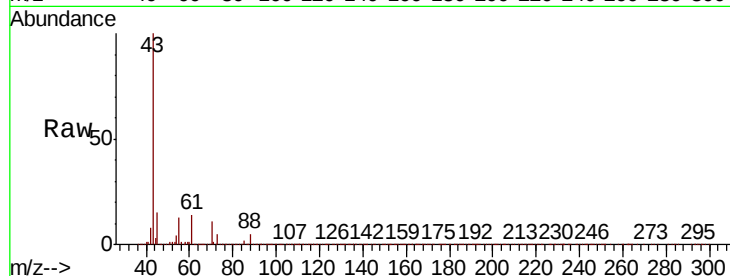




#43  
Ethyl Acetate  
Concen: 120.486 ug/l  
RT: 4.82 min Scan# 645  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

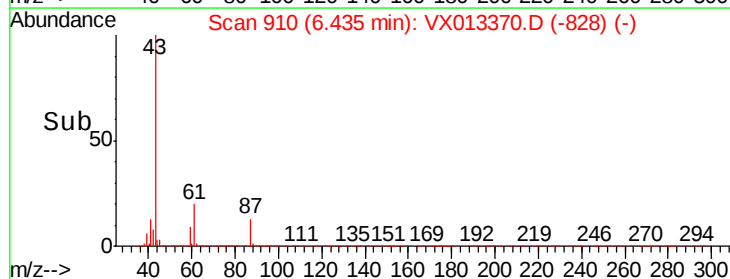
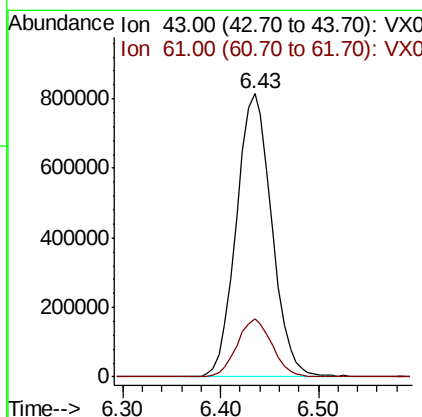
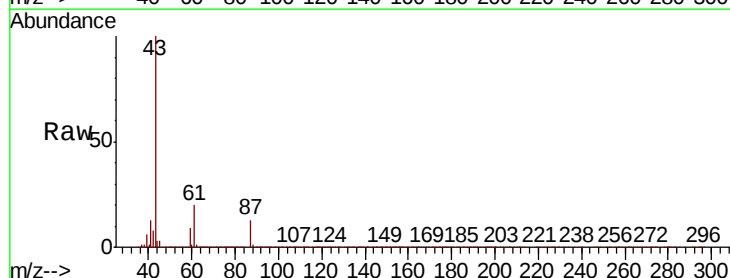
Instrument :  
MSVOA\_X  
ClientSampleId :

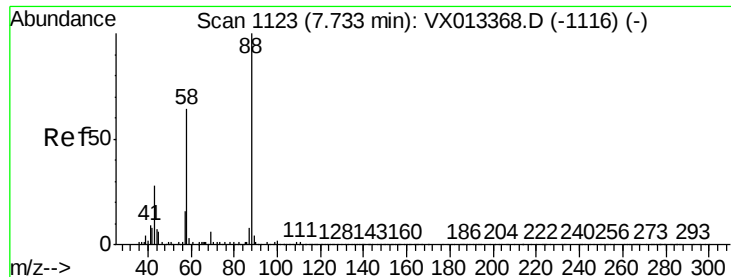
Tot Ion: 43 Resp: 1264985  
Ion Ratio Lower Upper  
43 100  
45 14.9 10.9 16.3



#44  
Isopropyl Acetate  
Concen: 118.177 ug/l  
RT: 6.43 min Scan# 910  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion: 43 Resp: 2038865  
Ion Ratio Lower Upper  
43 100  
61 20.4 15.8 23.8

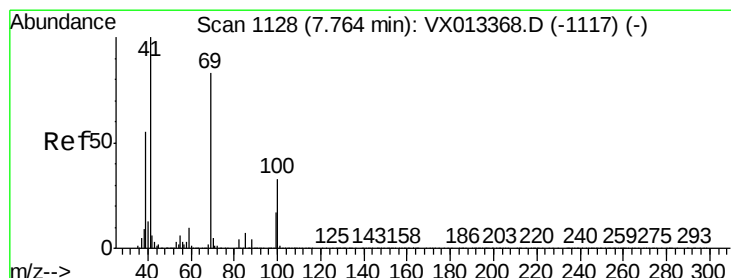
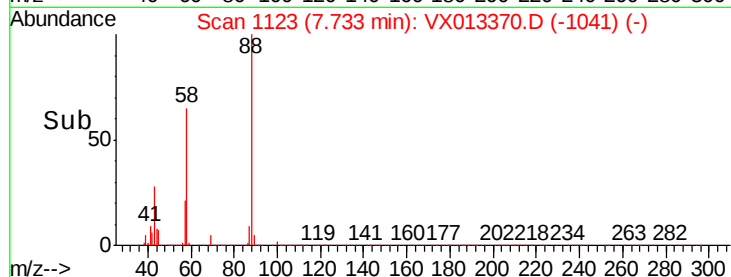
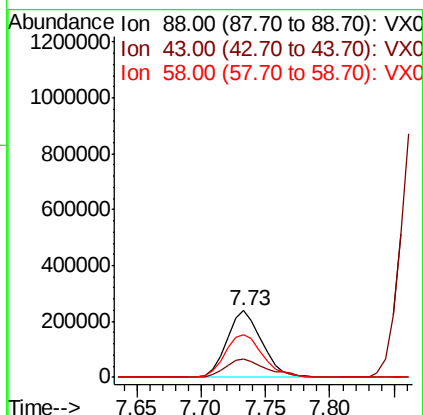
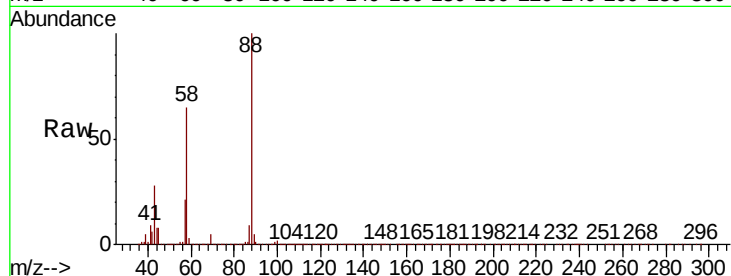




#45  
1,4-Dioxane  
Concen: 2134.302 ug/l  
RT: 7.73 min Scan# 1123  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

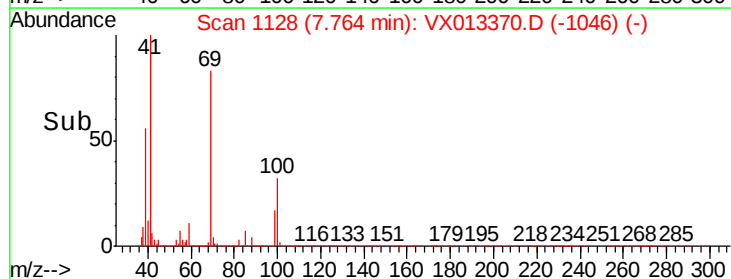
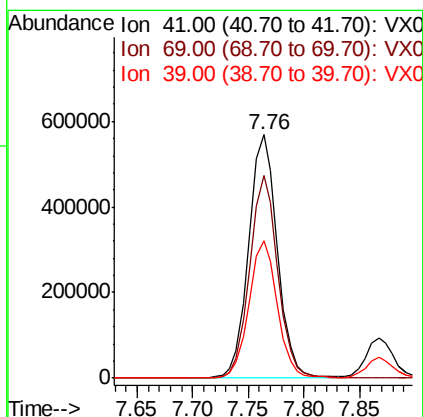
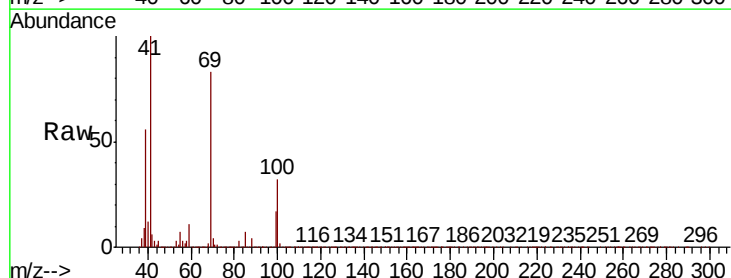
Instrument :  
MSVOA\_X  
ClientSampleId :

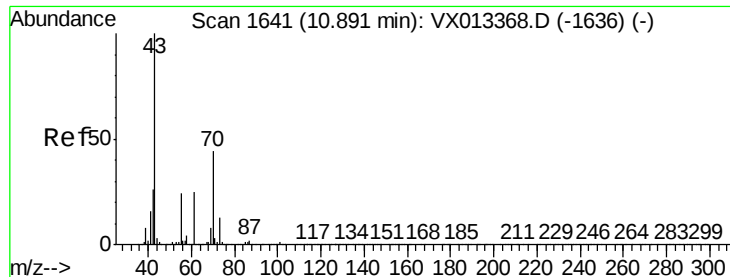
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 32.4  | 26.1  | 39.1  |
| 58      | 69.6  | 55.8  | 83.8  |



#46  
Methyl methacrylate  
Concen: 120.073 ug/l  
RT: 7.76 min Scan# 1128  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 83.1  | 41.4  | 124.4 |
| 39      | 56.2  | 27.9  | 83.6  |





#47

n-amvl Acetate

Concen: 124.907 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

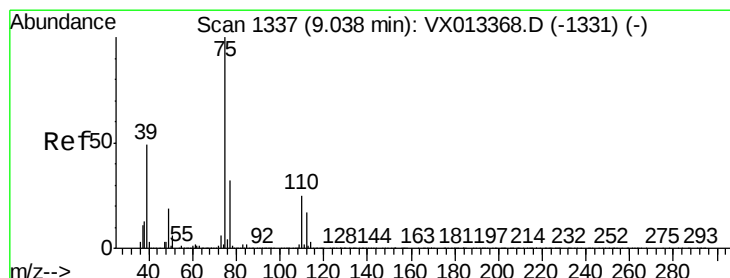
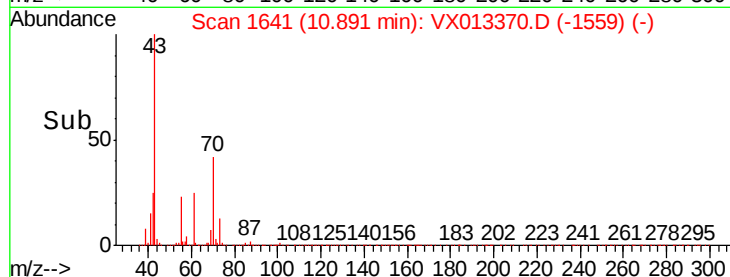
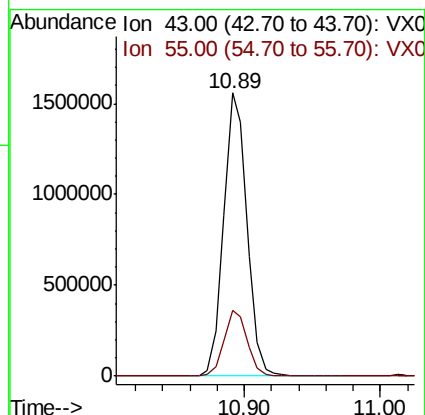
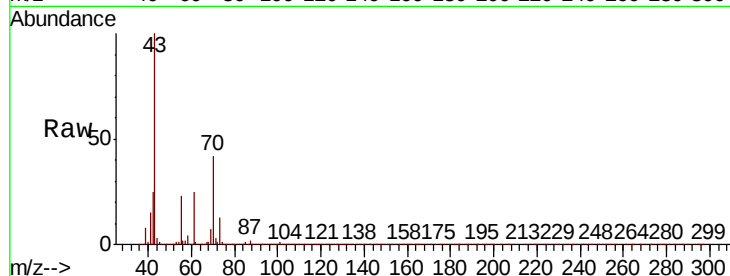
ClientSampleId :

Tot Ion: 43 Resp: 1842979

Ion Ratio Lower Upper

43 100

55 23.3 19.0 28.4



#48

t-1,3-Dichloropropene

Concen: 107.021 ug/l

RT: 9.04 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VX013370.D

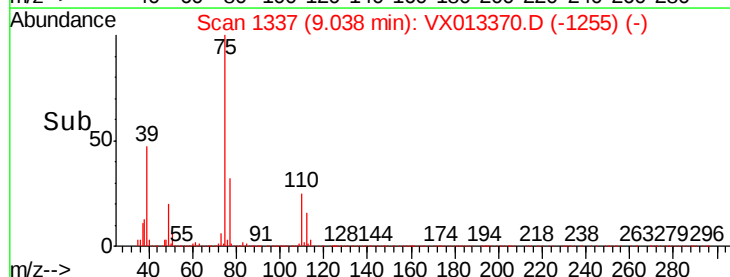
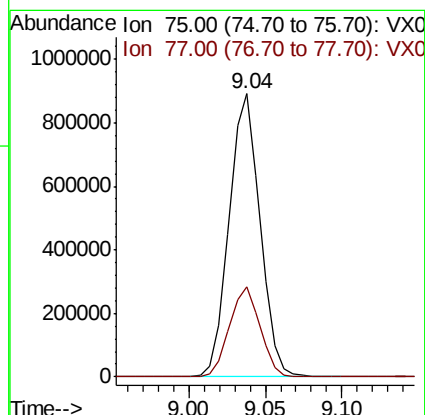
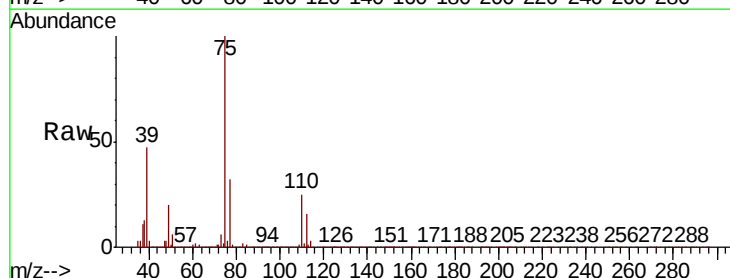
Acq: 11 Nov 2019 17:39

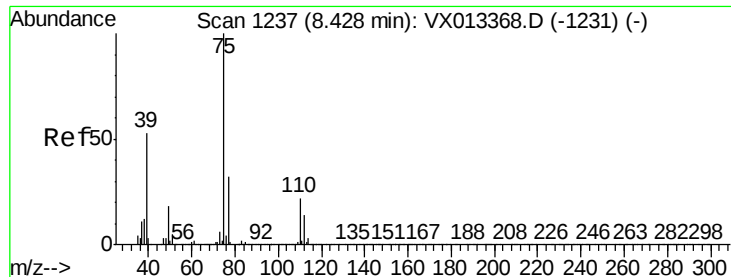
Tgt Ion: 75 Resp: 1245185

Ion Ratio Lower Upper

75 100

77 31.7 25.3 37.9



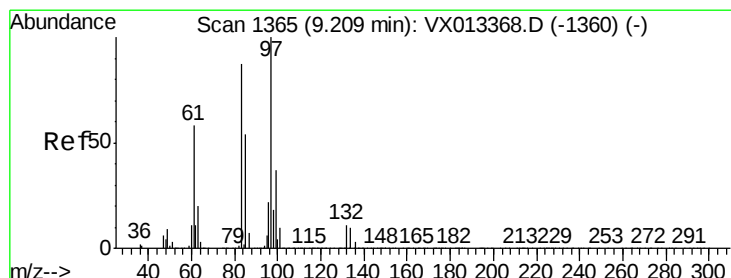
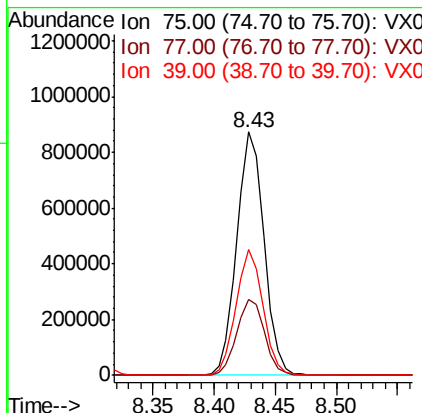
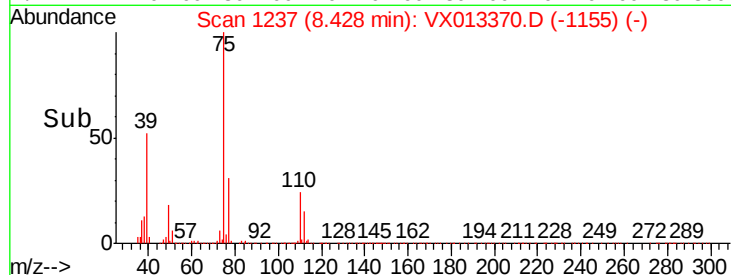
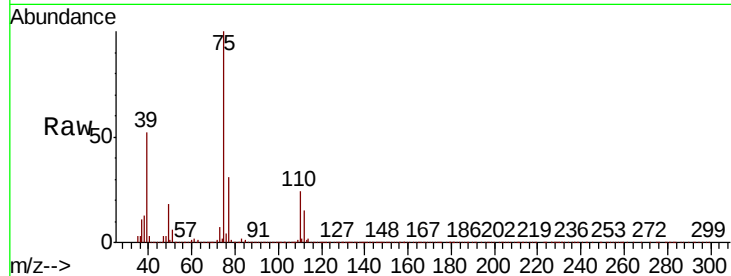


#49

cis-1,3-Dichloropropene  
 Concen: 106.349 ug/l  
 RT: 8.43 min Scan# 1237  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

Instrument :  
 MSVOA\_X  
 ClientSampled :

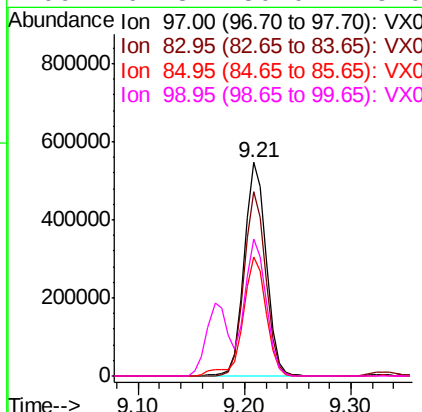
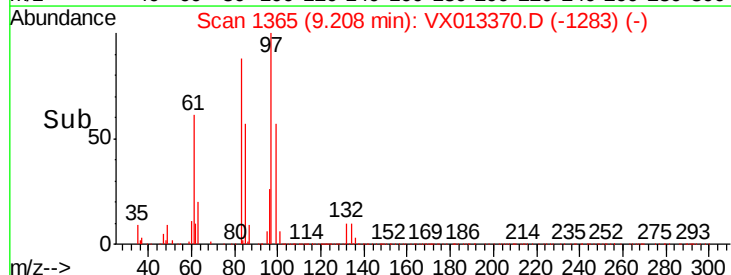
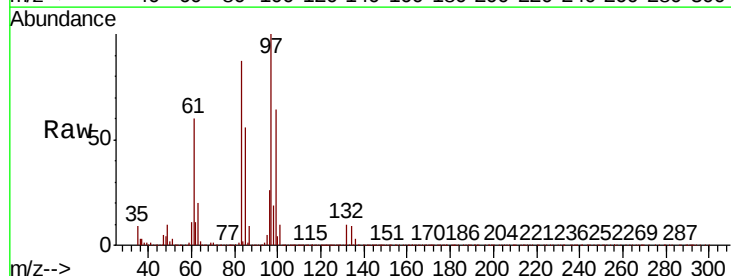
Tot Ion: 75 Resp: 1349208  
 Ion Ratio Lower Upper  
 75 100  
 77 31.3 25.8 38.8  
 39 51.6 42.2 63.4

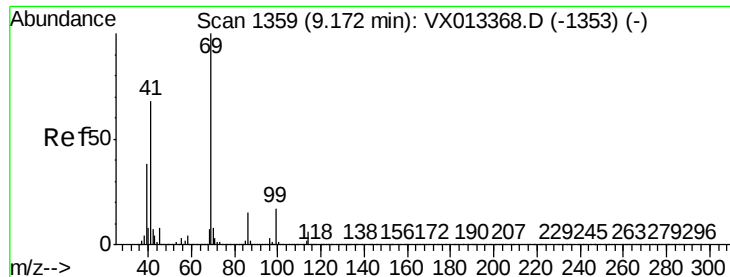


#50

1,1,2-Trichloroethane  
 Concen: 101.764 ug/l  
 RT: 9.21 min Scan# 1365  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

Tgt Ion: 97 Resp: 794067  
 Ion Ratio Lower Upper  
 97 100  
 83 86.6 69.6 104.4  
 85 55.9 45.5 68.3  
 99 64.3 50.0 75.0





#51

Ethyl methacrylate

Concen: 111.104 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. -0.00 min

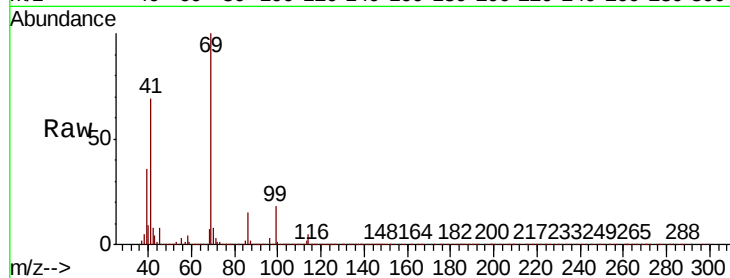
Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 69 Resp: 1366122

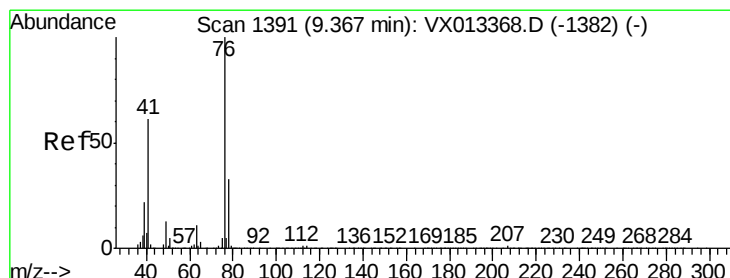
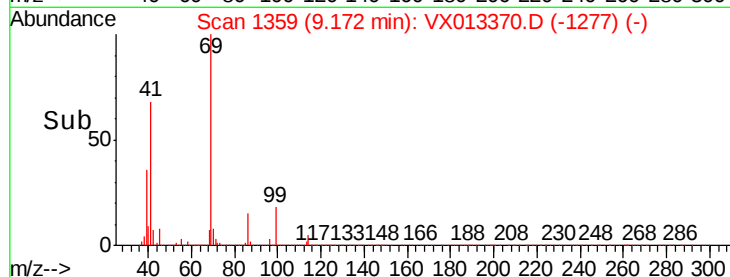
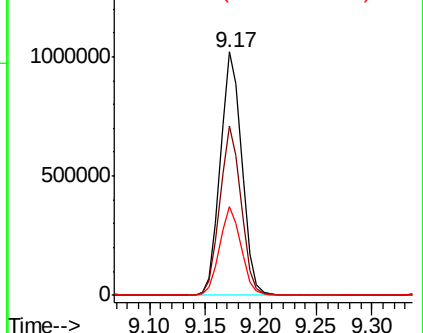
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 69.4  | 33.9  | 101.6 |
| 39  | 36.4  | 18.8  | 56.4  |



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#52

1,3-Dichloropropane

Concen: 103.534 ug/l

RT: 9.37 min Scan# 1391

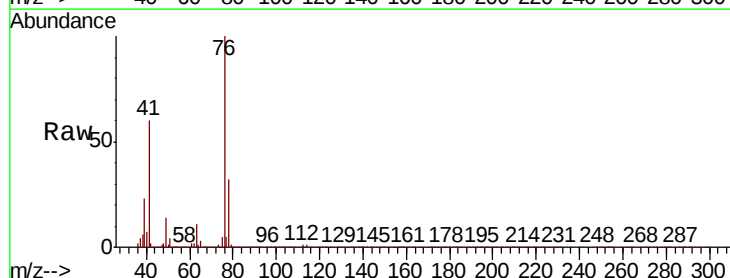
Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

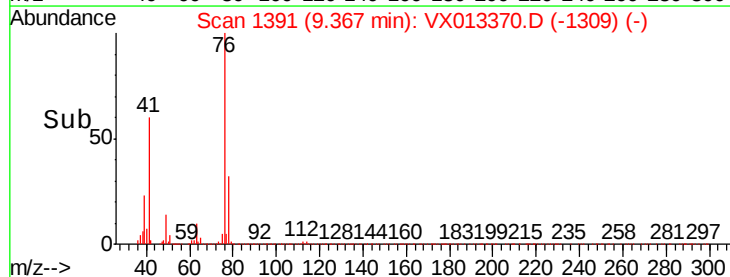
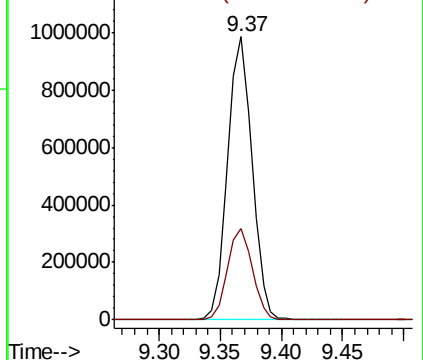
Tgt Ion: 76 Resp: 1362613

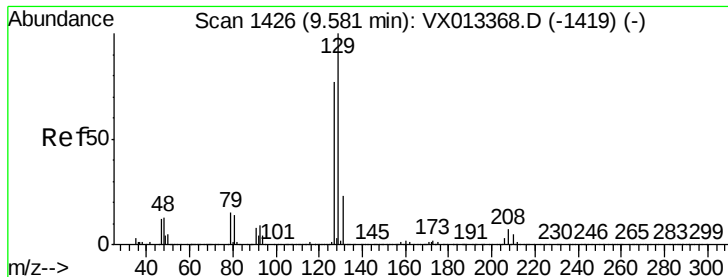
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 32.6  | 0.0   | 63.6  |



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 105.615 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

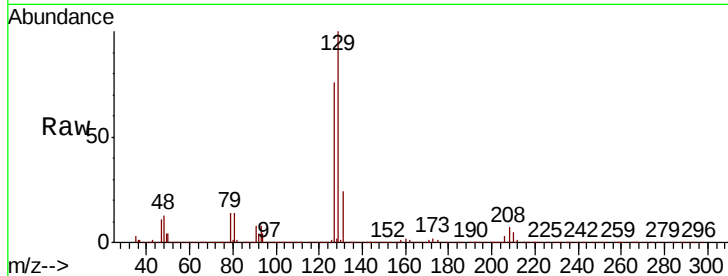
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:129 Resp: 885080

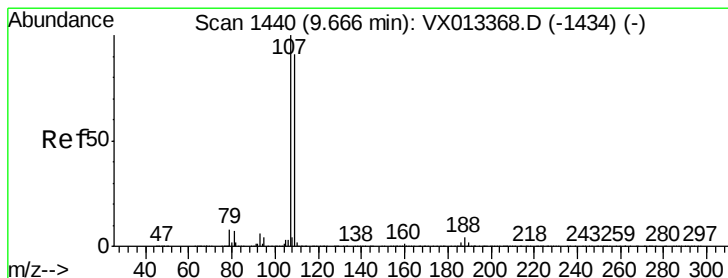
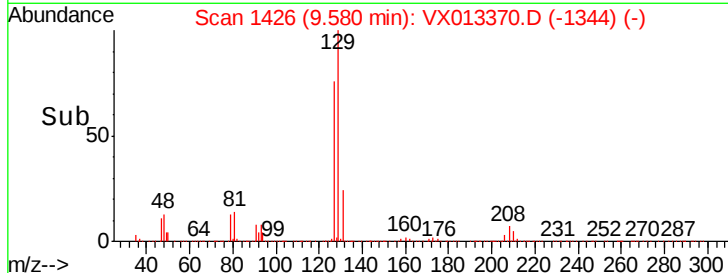
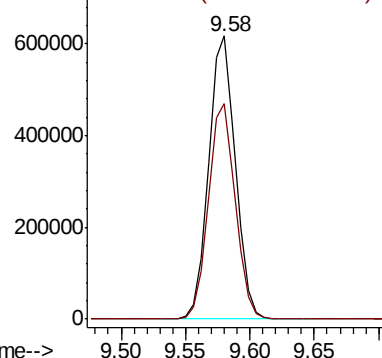
Ion Ratio Lower Upper

129 100

127 76.7 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 102.540 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VX013370.D

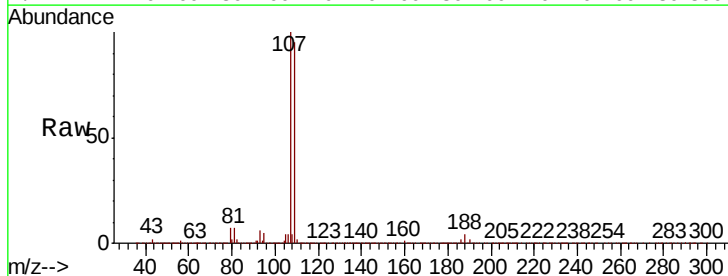
Acq: 11 Nov 2019 17:39

Tgt Ion:107 Resp: 853922

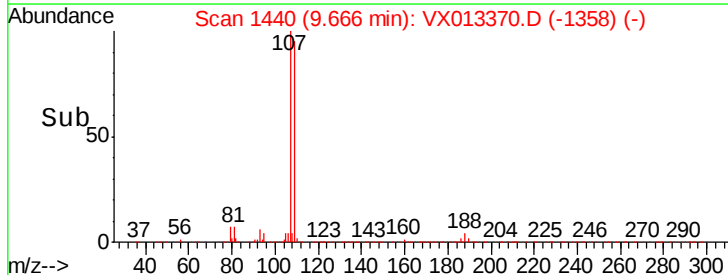
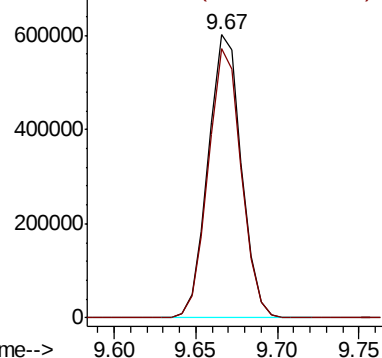
Ion Ratio Lower Upper

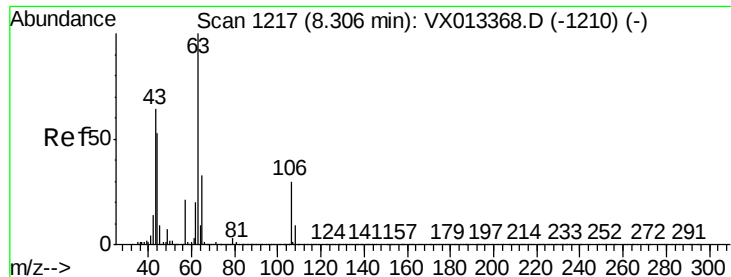
107 100

109 94.4 73.9 110.9



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





#55

2-Chloroethyl vinyl ether

Concen: 546.322 ug/l

RT: 8.31 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

ClientSampled :

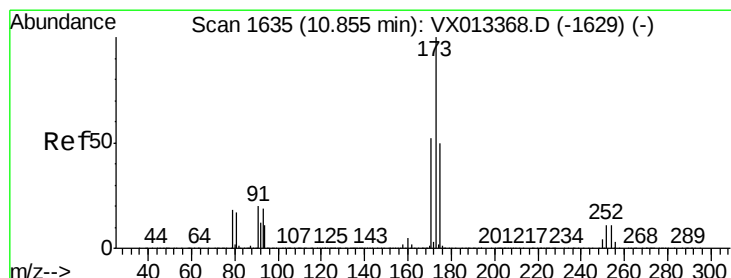
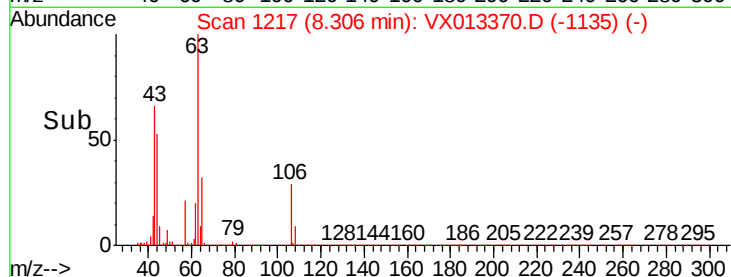
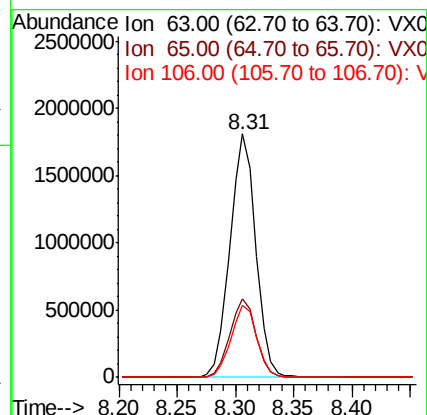
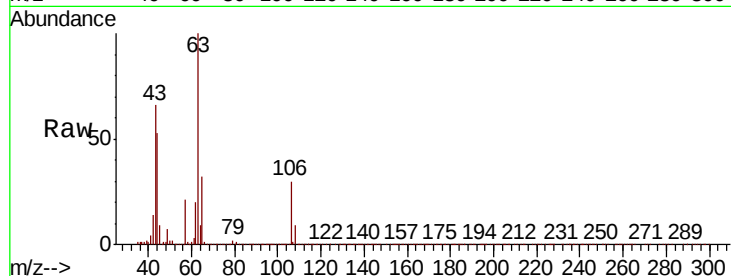
Tot Ion: 63 Resp: 2782369

Ion Ratio Lower Upper

63 100

65 32.5 26.0 39.0

106 29.5 23.5 35.3



#56

Bromoform

Concen: 118.881 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

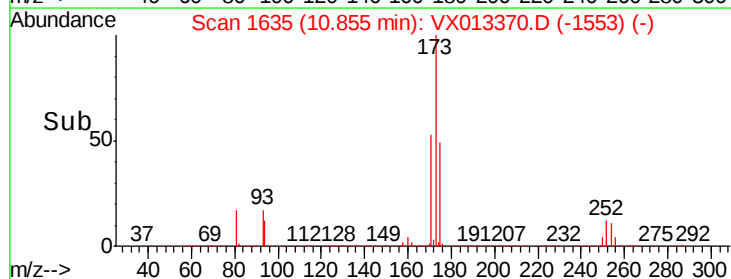
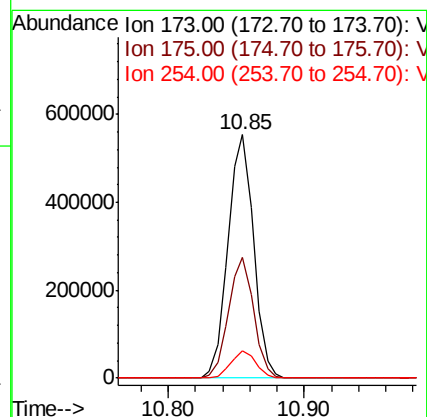
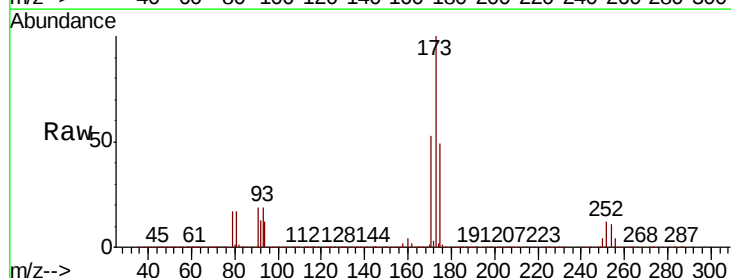
Tgt Ion: 173 Resp: 722418

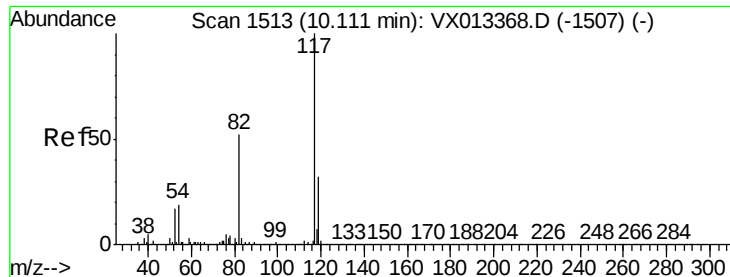
Ion Ratio Lower Upper

173 100

175 48.6 39.4 59.0

254 11.1 8.6 12.8

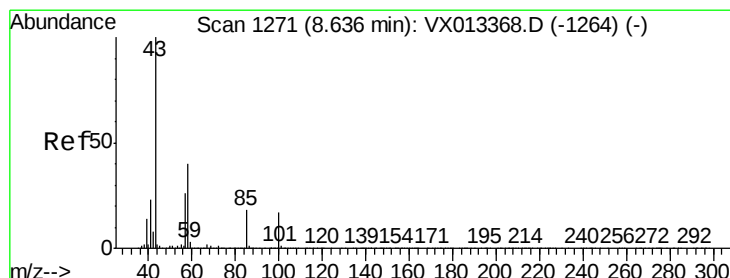
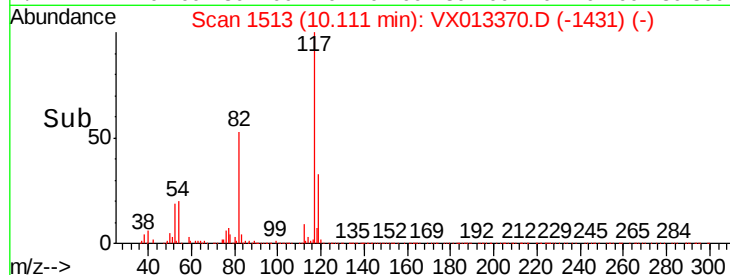
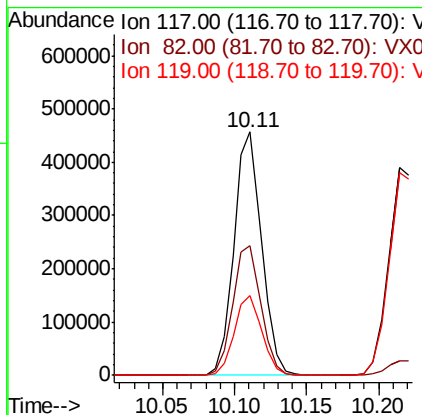
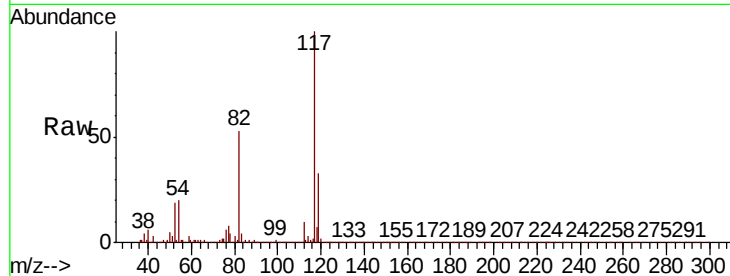




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

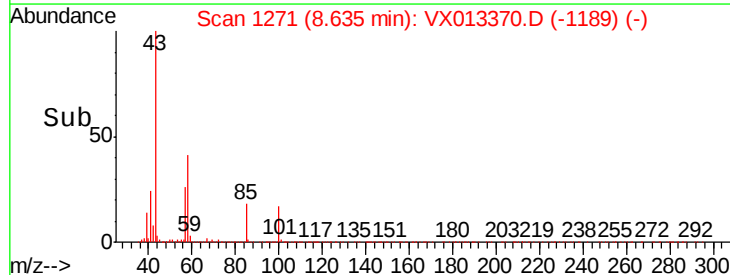
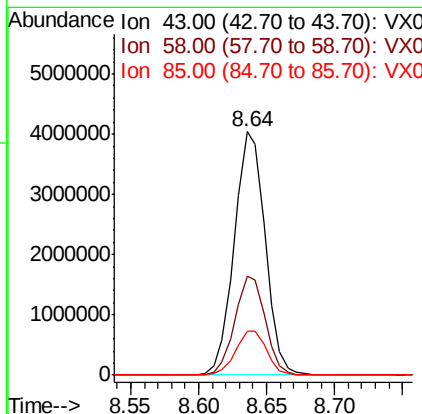
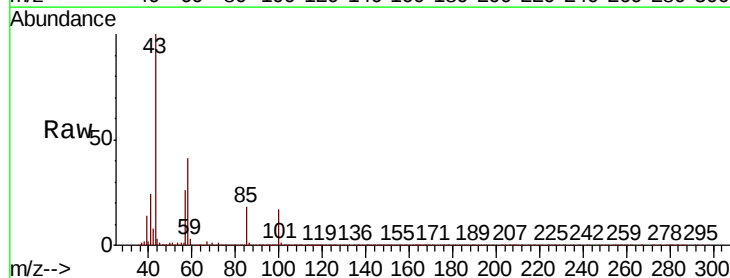
Instrument :  
MSVOA\_X  
ClientSampleId :

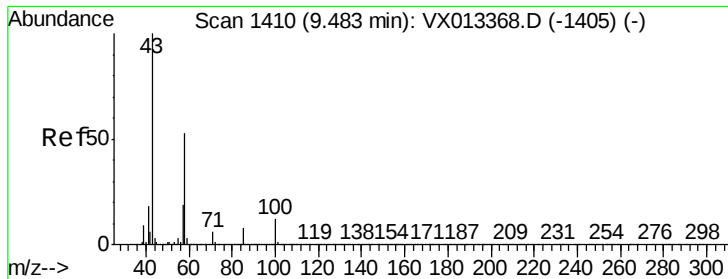
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.1  | 43.7  | 65.5  |
| 119     | 32.5  | 25.5  | 38.3  |



#58  
4-Methyl-2-Pentanone  
Concen: 598.236 ug/l  
RT: 8.64 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 40.1  | 31.6  | 47.4  |
| 85      | 18.3  | 14.2  | 21.2  |

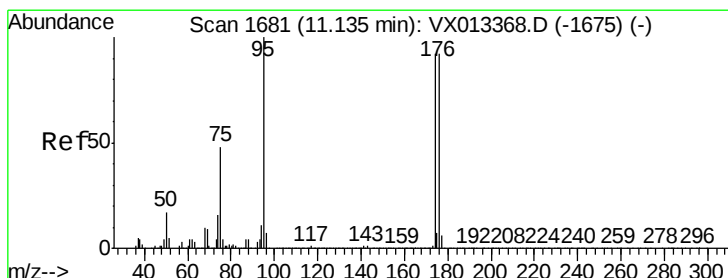
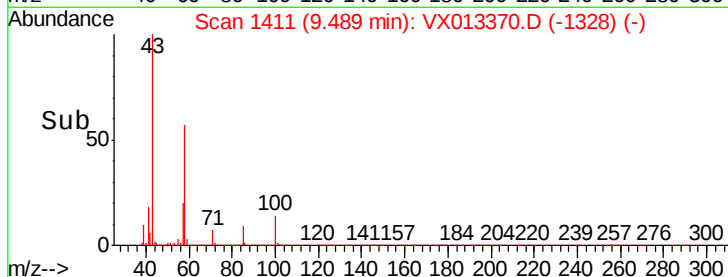
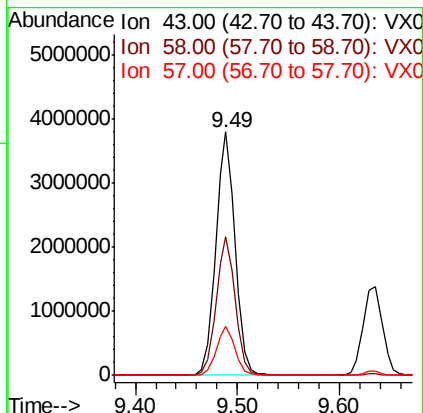
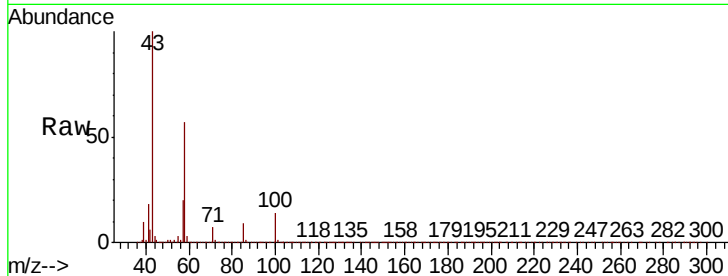




#59  
2-Hexanone  
Concen: 599.145 ug/l  
RT: 9.49 min Scan# 1411  
Delta R.T. 0.01 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

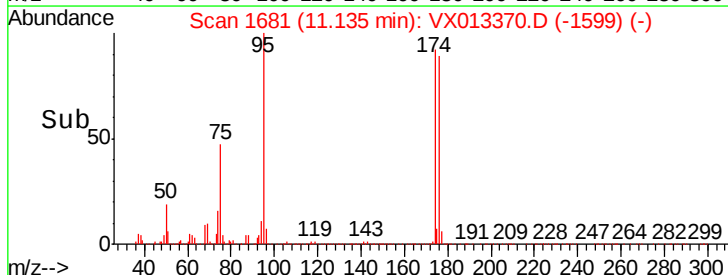
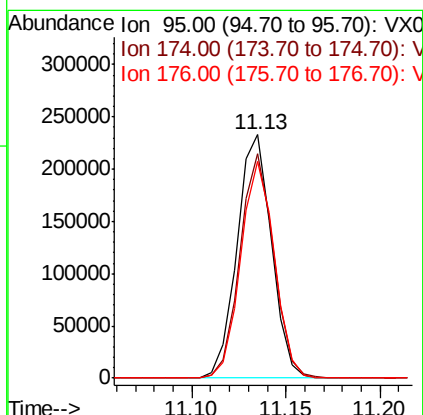
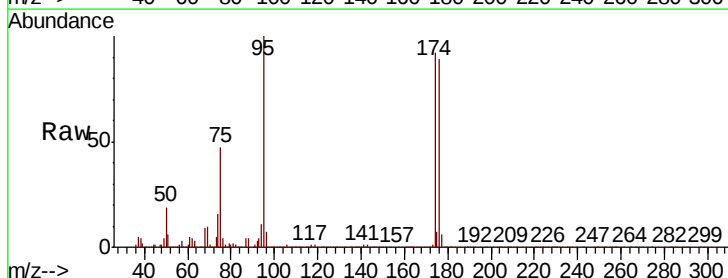
Instrument :  
MSVOA\_X  
ClientSampleId :

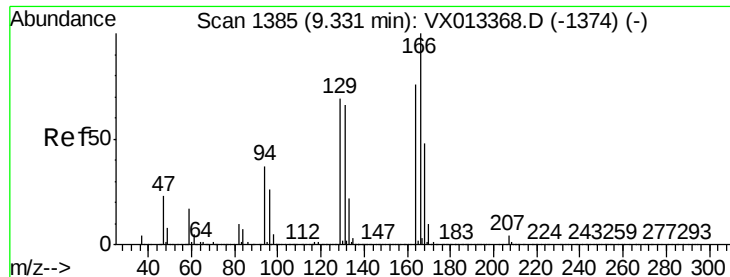
Tot Ion: 43 Resp: 5040269  
Ion Ratio Lower Upper  
43 100  
58 56.4 43.8 65.6  
57 19.5 15.1 22.7



#60  
4-Bromofluorobenzene  
Concen: 28.116 ug/l  
RT: 11.13 min Scan# 1681  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion: 95 Resp: 294555  
Ion Ratio Lower Upper  
95 100  
174 90.1 70.2 105.2  
176 87.1 68.3 102.5





#61

Tetrachloroethene

Concen: 93.750 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:164 Resp: 735086

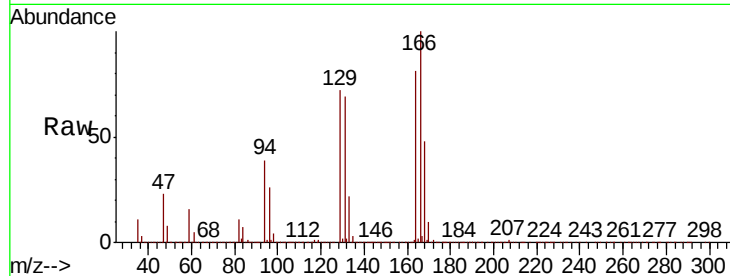
Ion Ratio Lower Upper

164 100

166 123.8 104.9 157.3

129 88.6 72.3 108.5

131 84.8 69.0 103.6

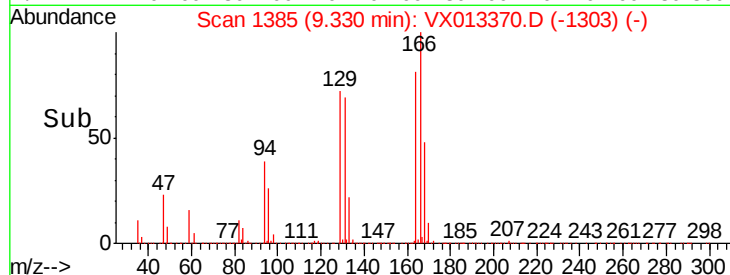


Abundance Ion 163.85 (163.55 to 164.55): V

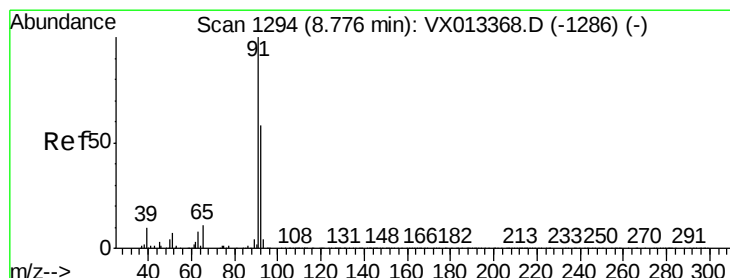
Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



Time--> 9.25 9.30 9.35 9.40



#62

Toluene

Concen: 102.022 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX013370.D

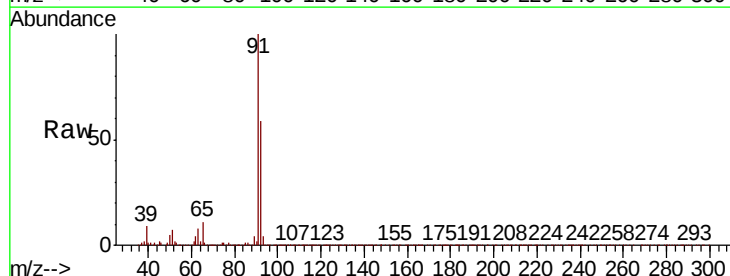
Acq: 11 Nov 2019 17:39

Tgt Ion: 91 Resp: 3369772

Ion Ratio Lower Upper

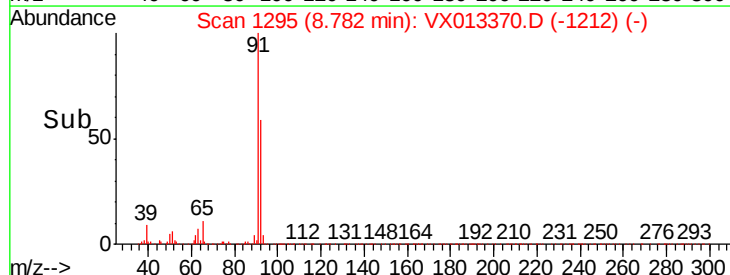
91 100

92 58.7 46.6 69.8

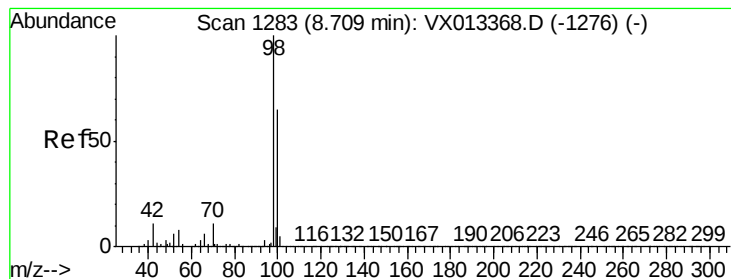


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0



Time--> 8.70 8.75 8.80 8.85 8.90



#63

Toluene-d8

Concen: 30.250 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

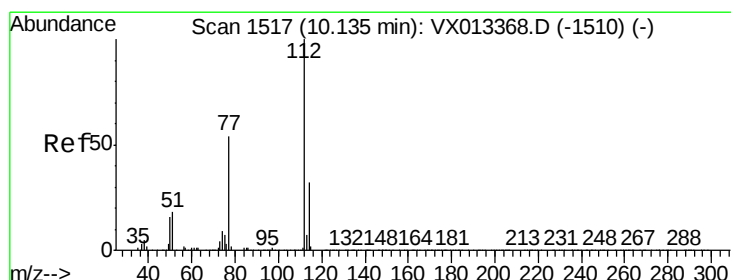
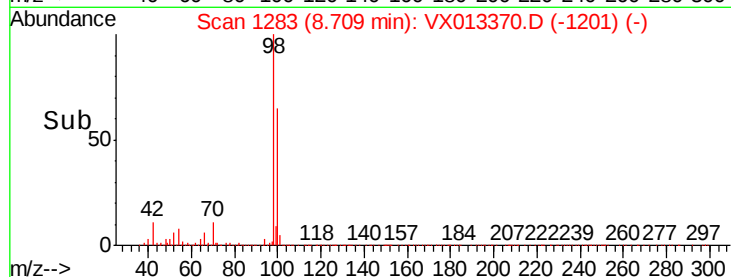
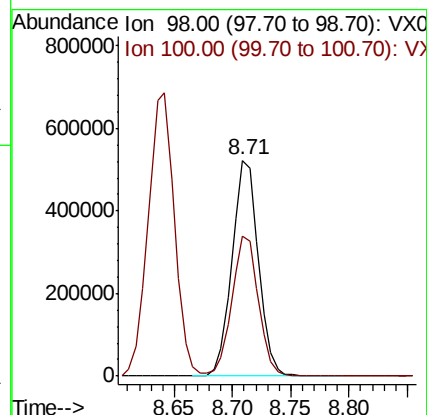
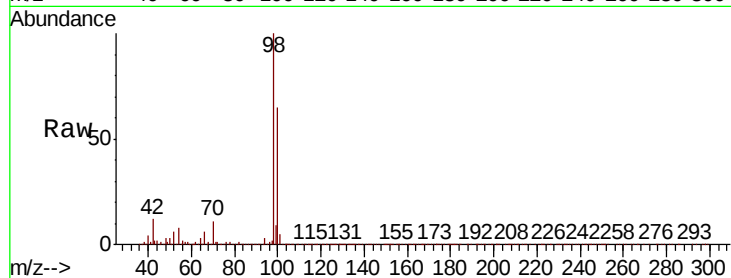
ClientSampleId :

Tot Ion: 98 Resp: 824061

Ion Ratio Lower Upper

98 100

100 64.9 52.5 78.7



#64

Chlorobenzene

Concen: 101.555 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013370.D

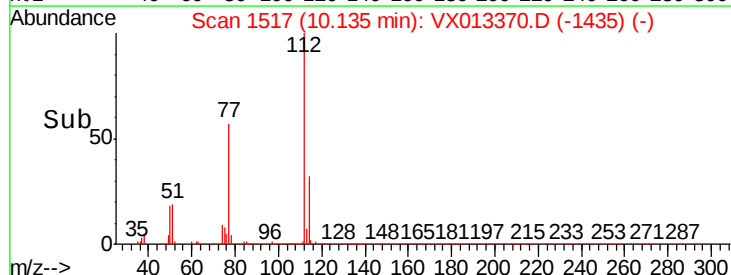
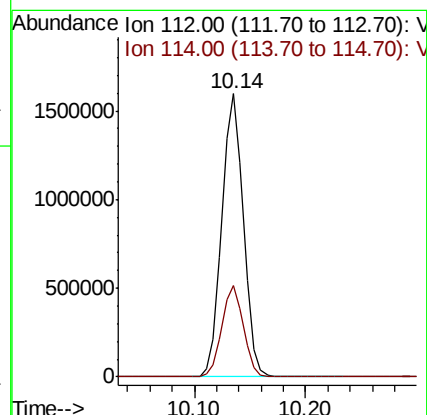
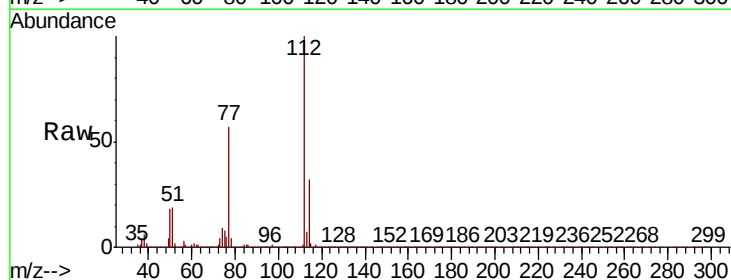
Acq: 11 Nov 2019 17:39

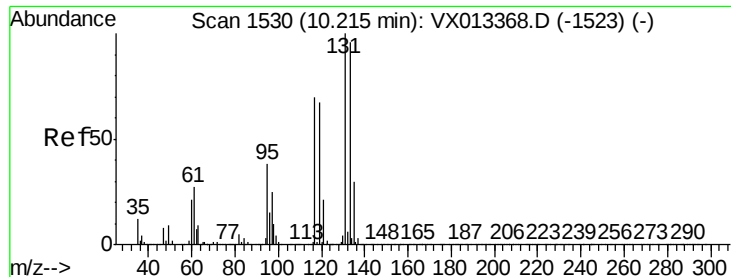
Tgt Ion: 112 Resp: 2135076

Ion Ratio Lower Upper

112 100

114 32.2 25.7 38.5

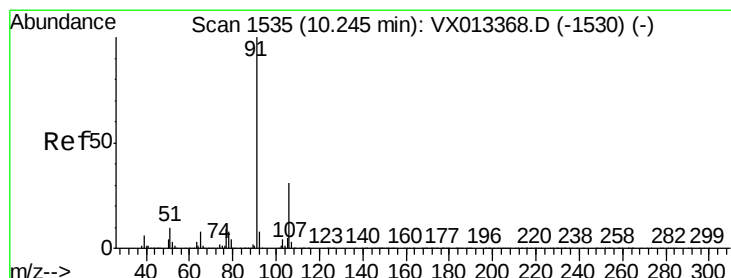
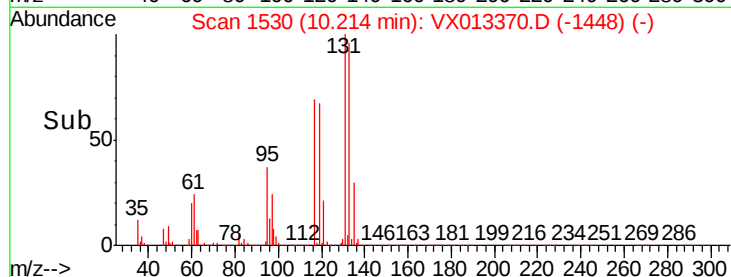
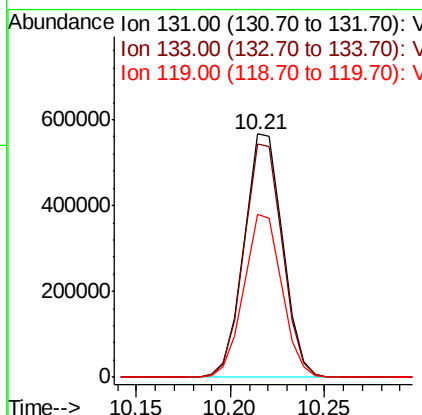
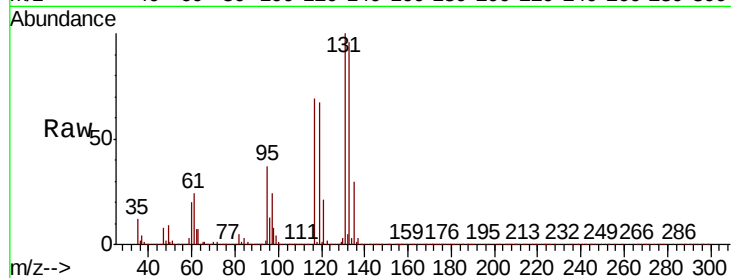




#65  
 1,1,1,2-Tetrachloroethane  
 Concen: 102.610 ug/l  
 RT: 10.21 min Scan# 1530  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

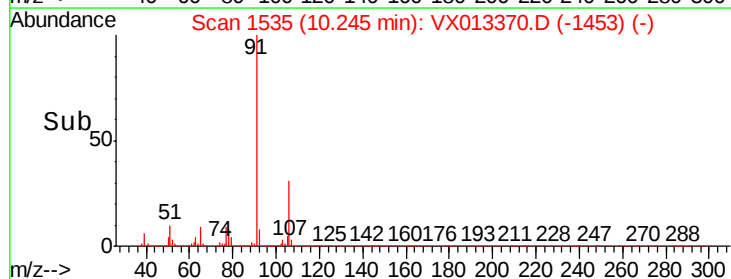
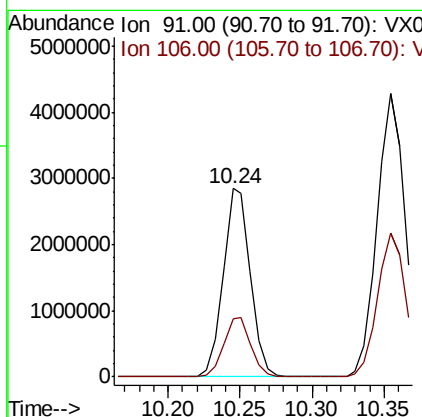
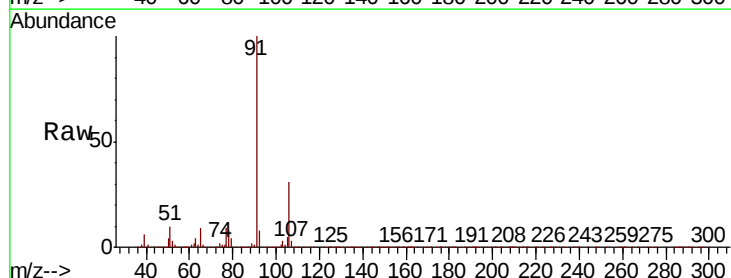
Instrument :  
 MSVOA\_X  
 ClientSampleId :

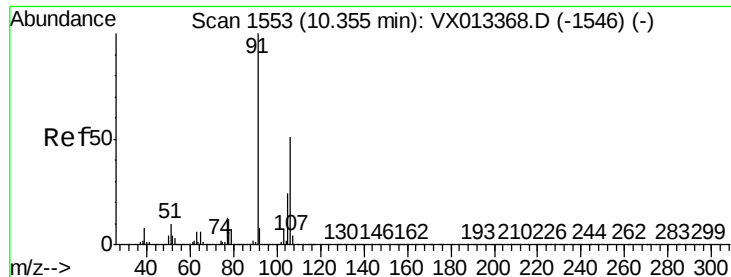
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 96.0  | 0.0   | 192.2 |
| 119     | 66.0  | 0.0   | 134.4 |



#66  
 Ethyl Benzene  
 Concen: 99.657 ug/l  
 RT: 10.24 min Scan# 1535  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.9  | 25.0  | 37.4  |

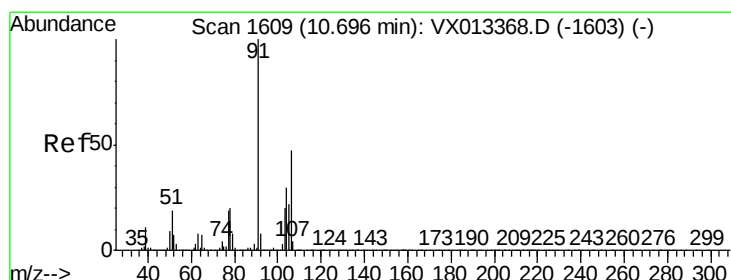
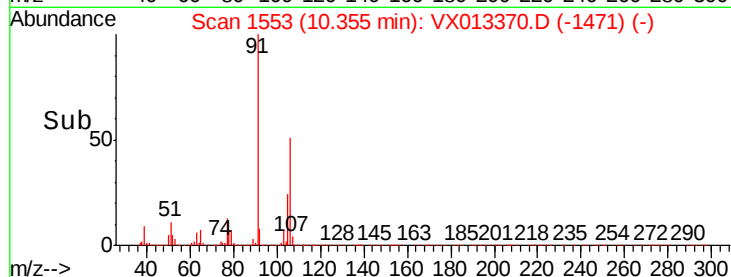
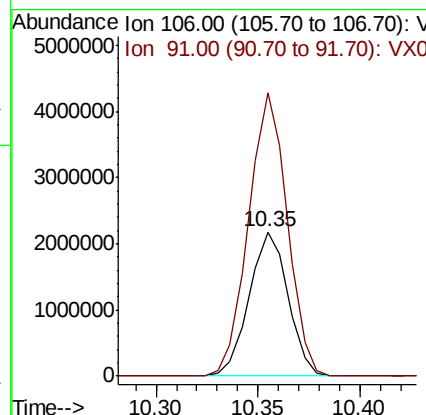
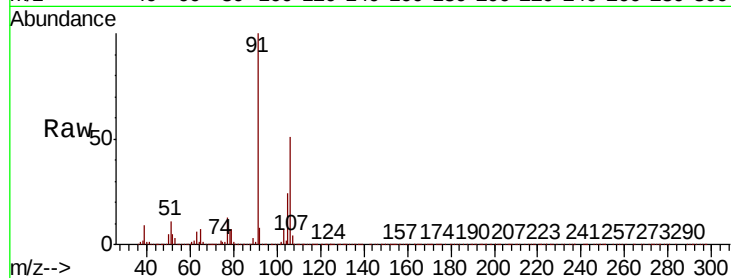




#67  
m/p-Xylenes  
Concen: 201.630 ug/l  
RT: 10.35 min Scan# 1553  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

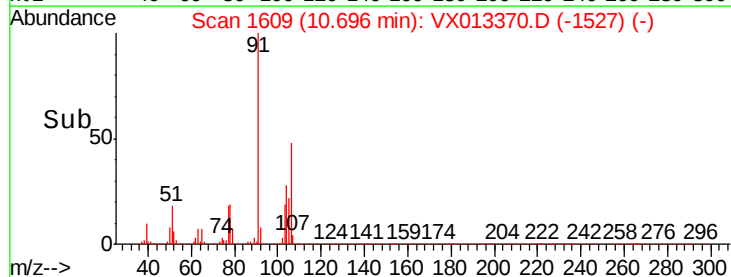
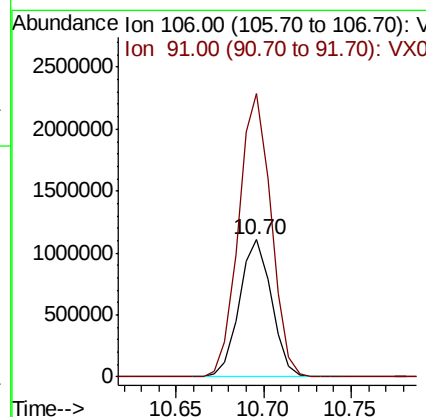
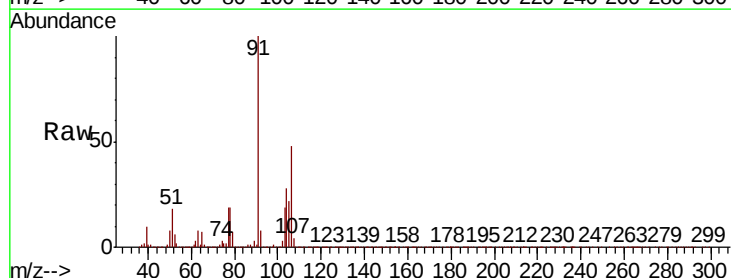
Instrument :  
MSVOA\_X  
ClientSampleId :

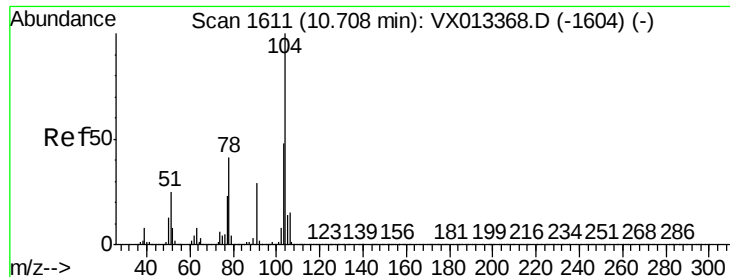
Tot Ion:106 Resp: 2884627  
Ion Ratio Lower Upper  
106 100  
91 196.1 158.4 237.6



#68  
o-Xylene  
Concen: 102.686 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion:106 Resp: 1412686  
Ion Ratio Lower Upper  
106 100  
91 208.3 106.4 319.2

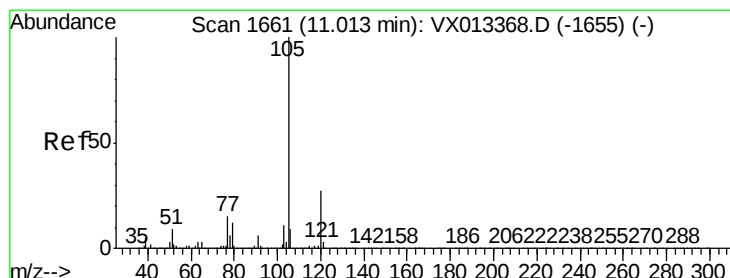
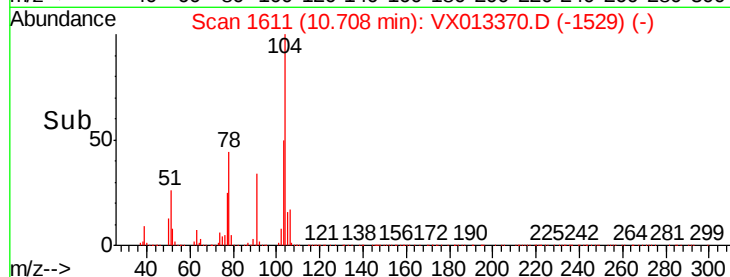
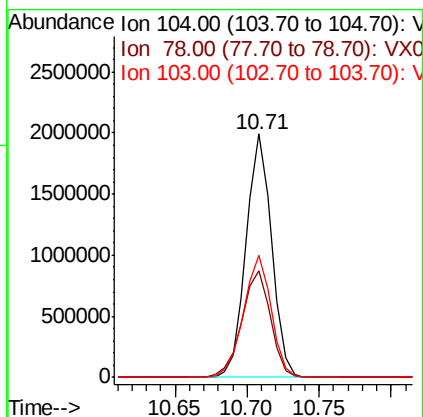
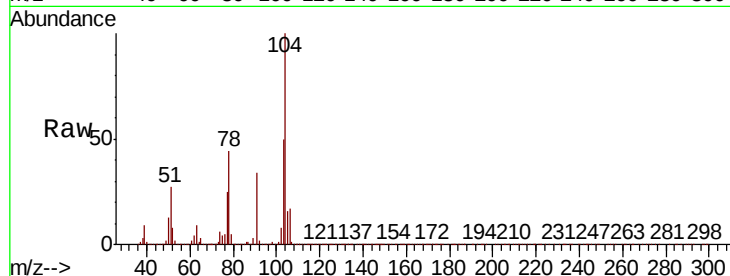




#69  
Stvrene  
Concen: 103.414 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

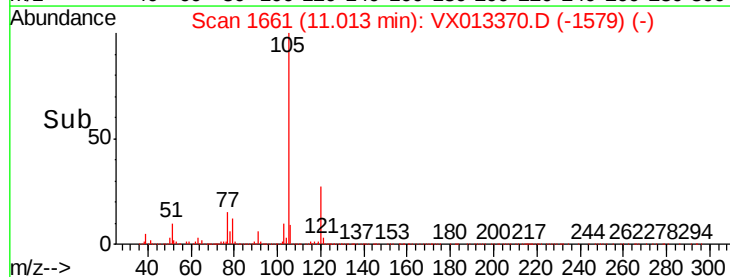
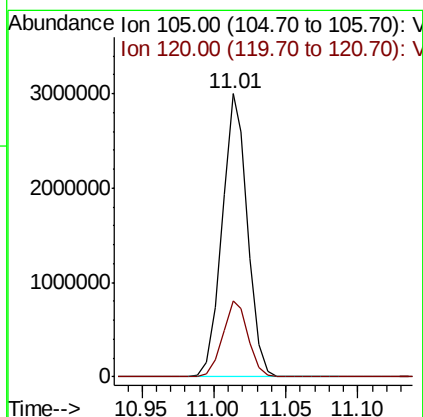
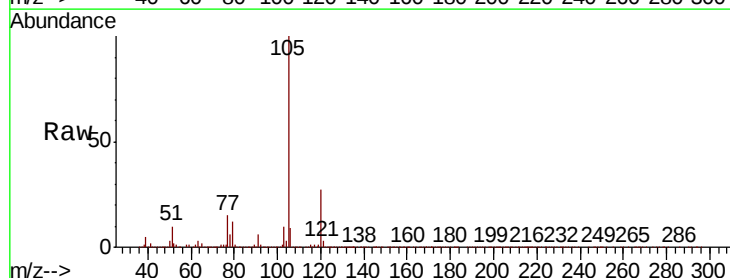
Instrument :  
MSVOA\_X  
ClientSampleId :

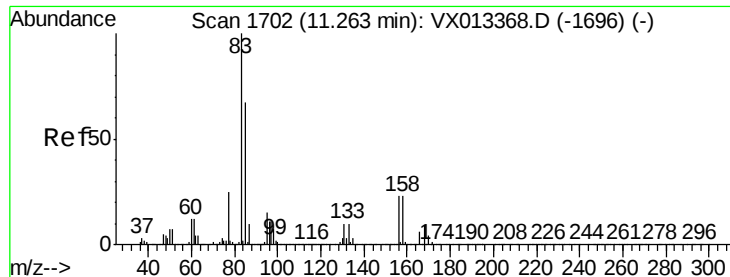
Tot Ion:104 Resp: 2434455  
Ion Ratio Lower Upper  
104 100  
78 49.1 38.2 57.4  
103 54.4 43.2 64.8



#70  
Isopropylbenzene  
Concen: 98.654 ug/l  
RT: 11.01 min Scan# 1661  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion:105 Resp: 3686985  
Ion Ratio Lower Upper  
105 100  
120 27.1 18.8 34.8

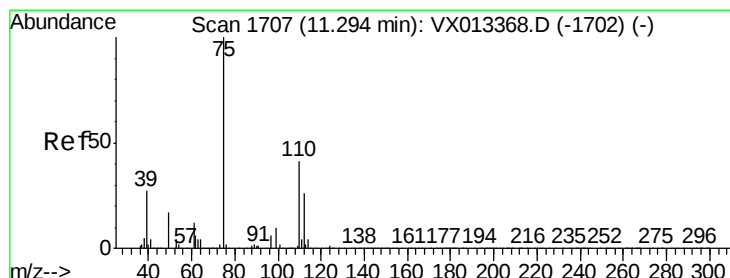
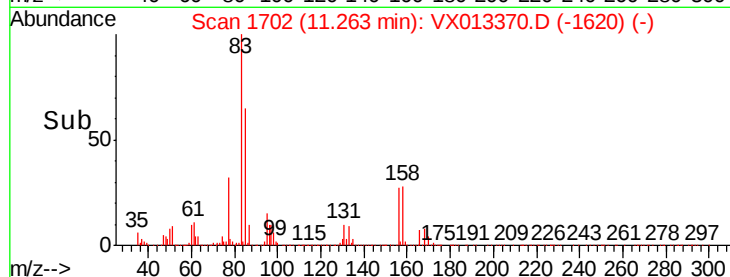
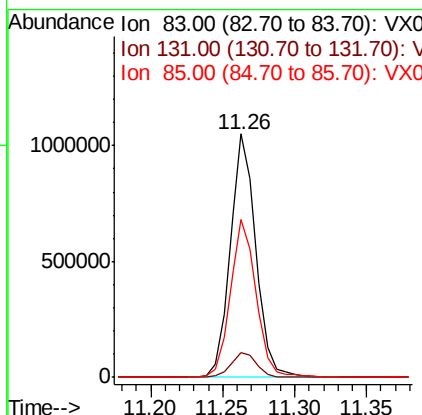
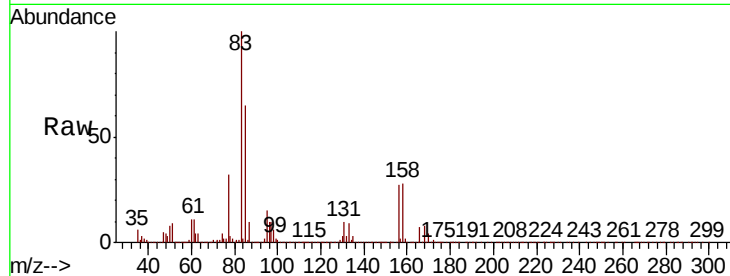




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 110.720 ug/l  
 RT: 11.26 min Scan# 1702  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

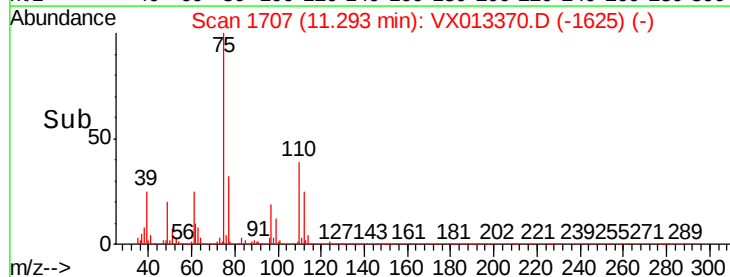
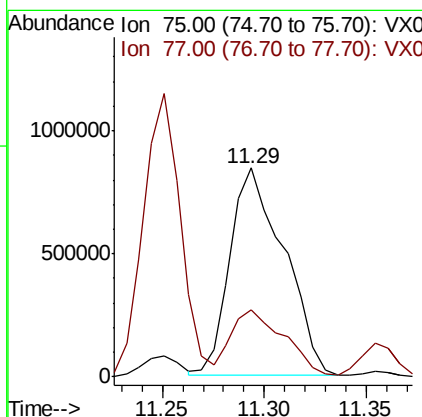
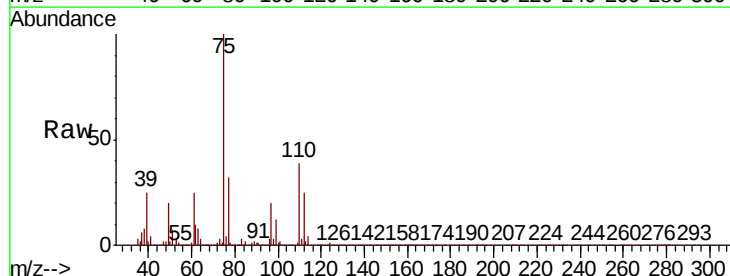
Instrument :  
 MSVOA\_X  
 ClientSampled :

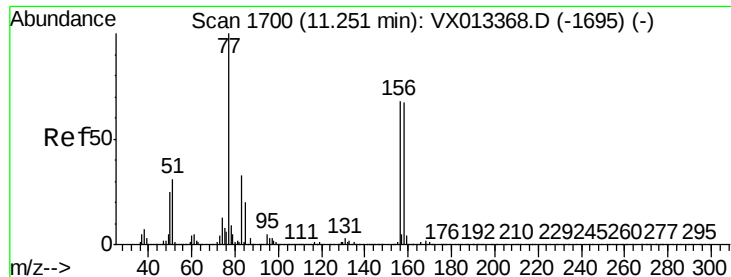
Tot Ion: 83 Resp: 1312526  
 Ion Ratio Lower Upper  
 83 100  
 131 10.2 4.7 14.1  
 85 65.0 32.6 97.7



#72  
 1,2,3-Trichloropropane  
 Concen: 157.913 ug/l  
 RT: 11.29 min Scan# 1707  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

Tgt Ion: 75 Resp: 1552011  
 Ion Ratio Lower Upper  
 75 100  
 77 30.1 0.0 86.2





#73

Bromobenzene

Concen: 106.617 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

ClientSampleId :

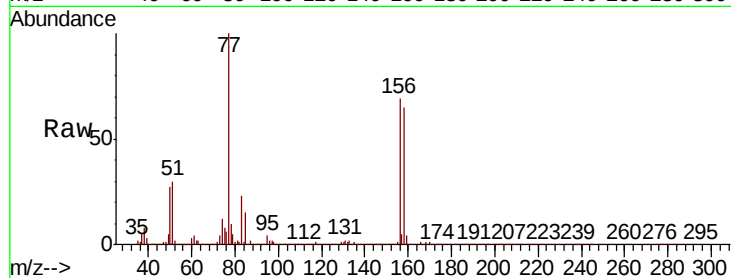
Tot Ion:156 Resp: 976117

Ion Ratio Lower Upper

156 100

77 149.6 0.0 308.8

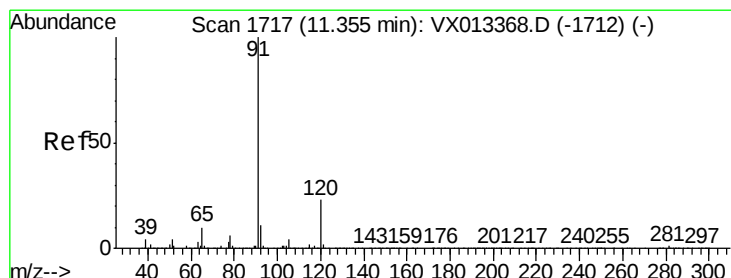
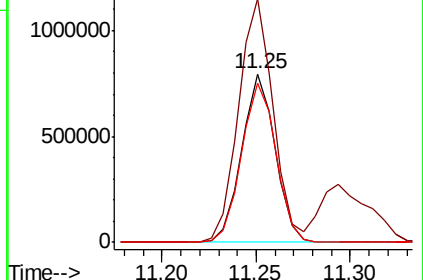
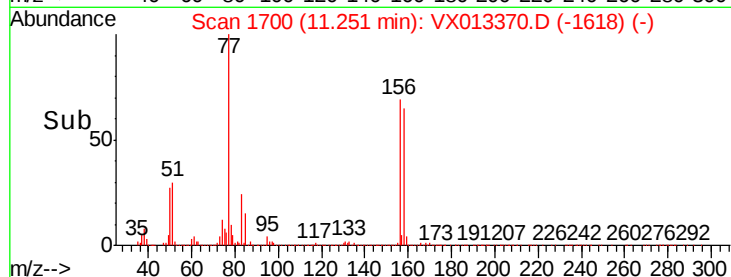
158 97.6 0.0 197.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 101.994 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013370.D

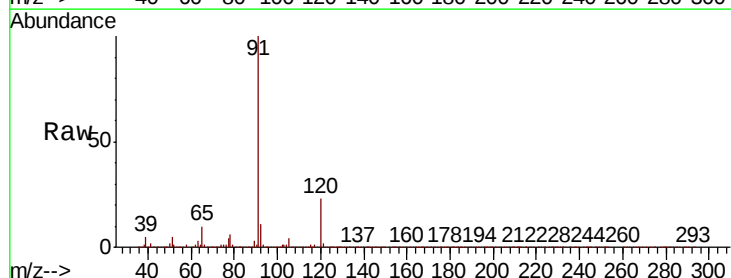
Acq: 11 Nov 2019 17:39

Tgt Ion: 91 Resp: 4212298

Ion Ratio Lower Upper

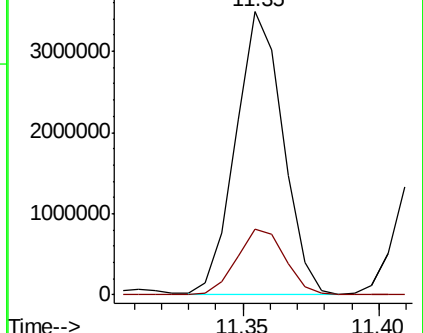
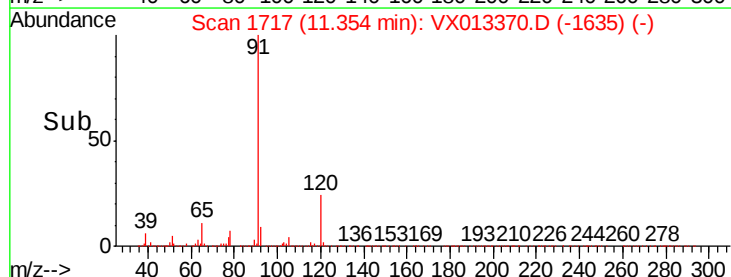
91 100

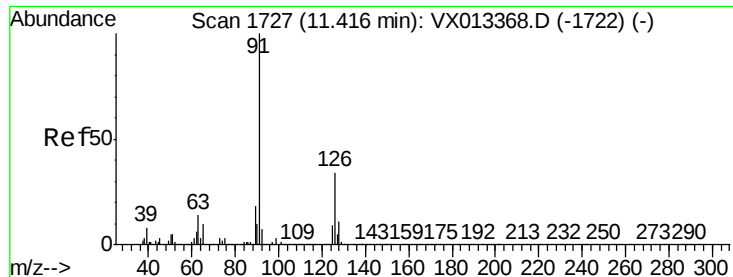
120 23.7 0.0 46.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

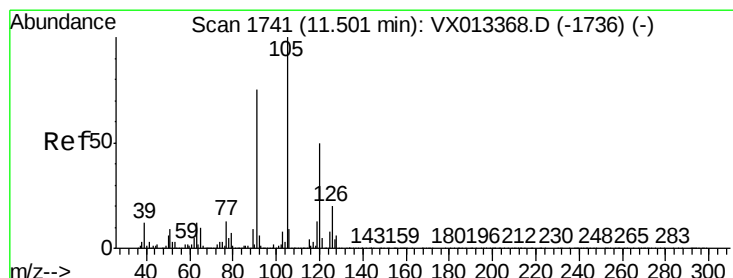
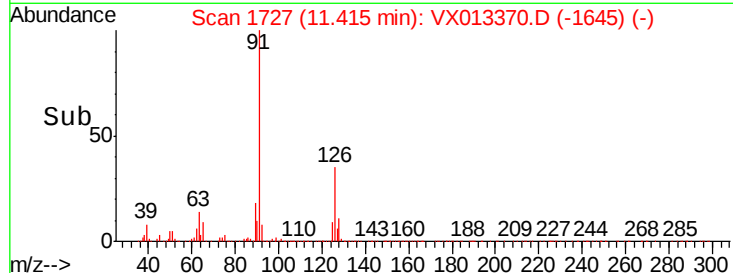
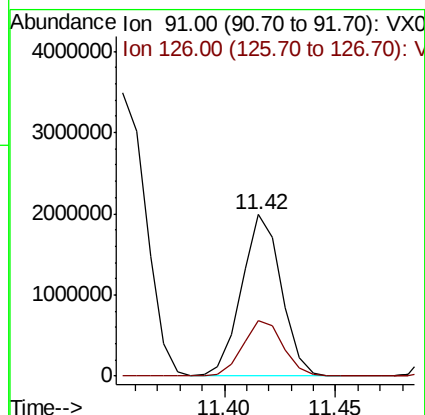
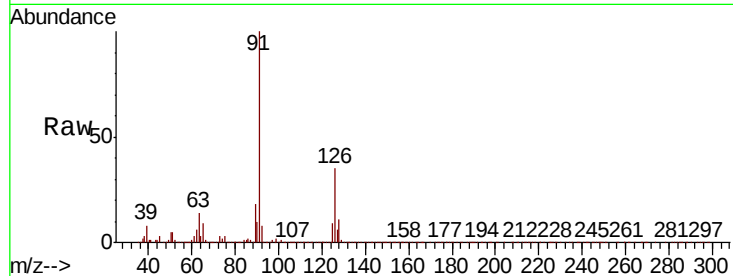




#75  
2-Chlorotoluene  
Concen: 96.884 ug/l  
RT: 11.42 min Scan# 1727  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

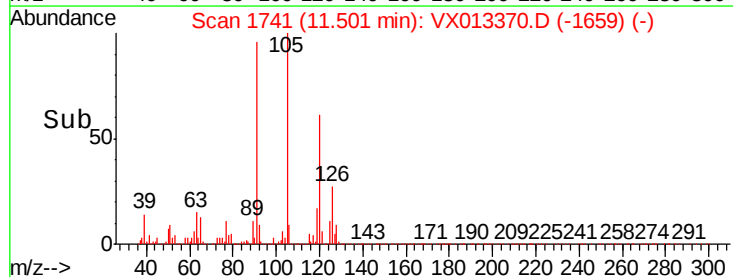
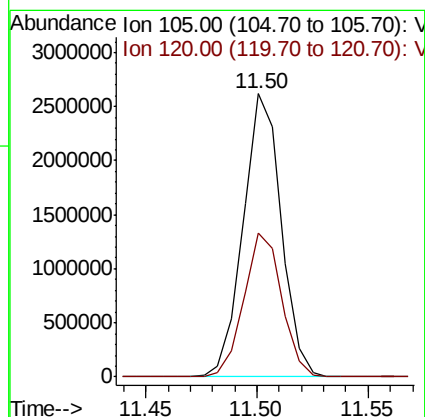
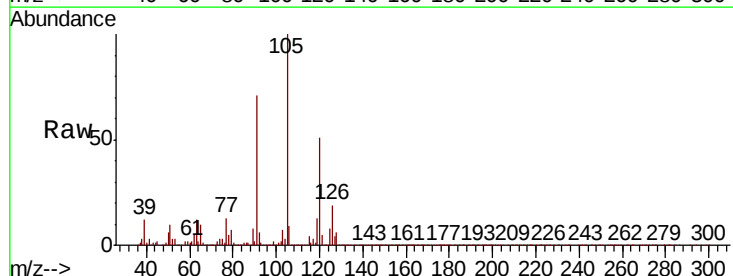
Instrument :  
MSVOA\_X  
ClientSampleId :

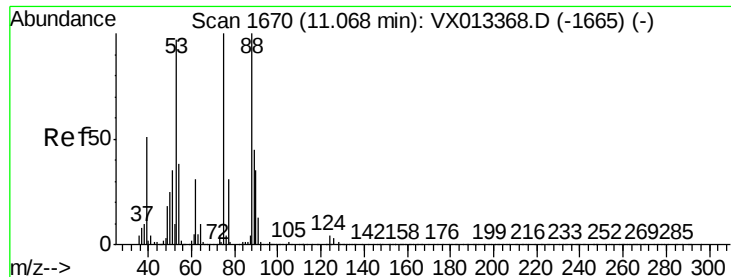
Tot Ion: 91 Resp: 2476763  
Ion Ratio Lower Upper  
91 100  
126 34.9 0.0 69.0



#76  
1,3,5-Trimethylbenzene  
Concen: 98.978 ug/l  
RT: 11.50 min Scan# 1741  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion: 105 Resp: 3118033  
Ion Ratio Lower Upper  
105 100  
120 50.6 0.0 100.0





#77

t-1,4-Dichloro-2-butene

Concen: 124.193 ug/l

RT: 11.07 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

ClientSampleId :

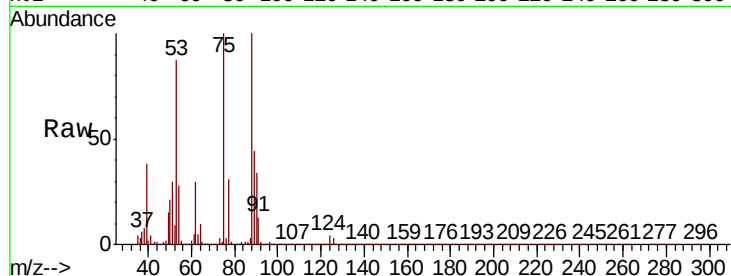
Tot Ion: 75 Resp: 495839

Ion Ratio Lower Upper

75 100

53 87.0 48.8 146.3

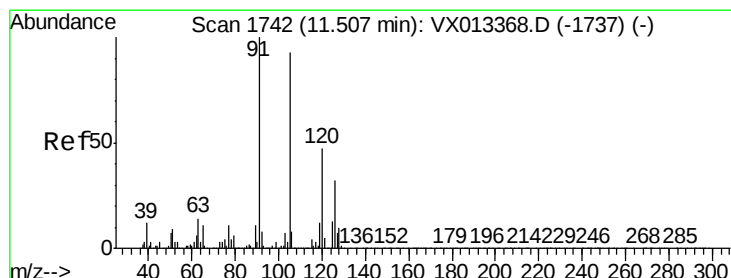
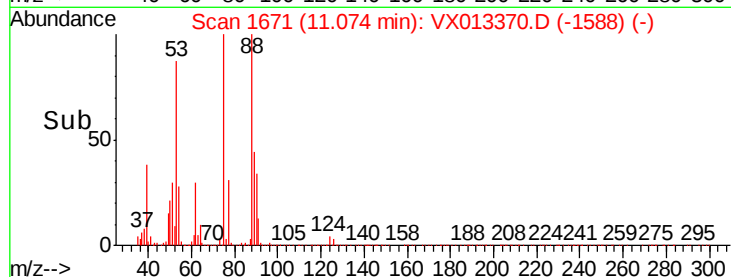
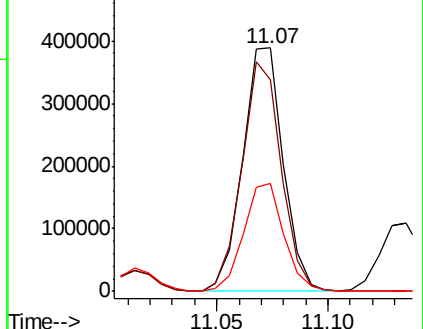
89 44.1 22.3 66.8



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0



#78

4-Chlorotoluene

Concen: 97.972 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VX013370.D

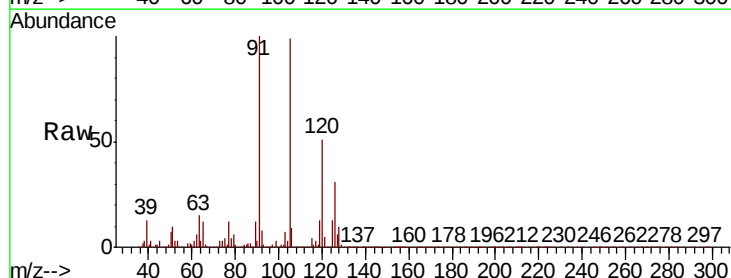
Acq: 11 Nov 2019 17:39

Tgt Ion: 91 Resp: 2868835

Ion Ratio Lower Upper

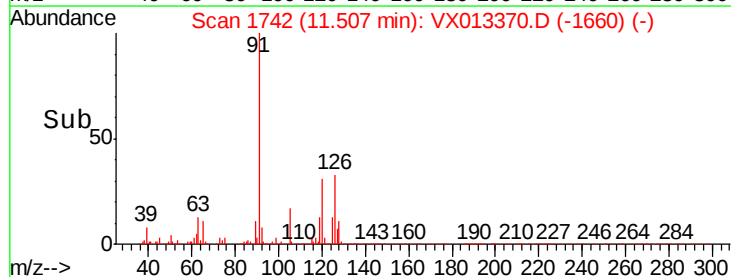
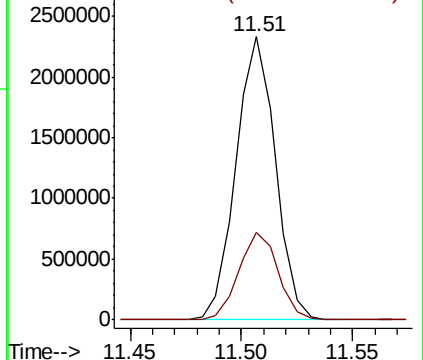
91 100

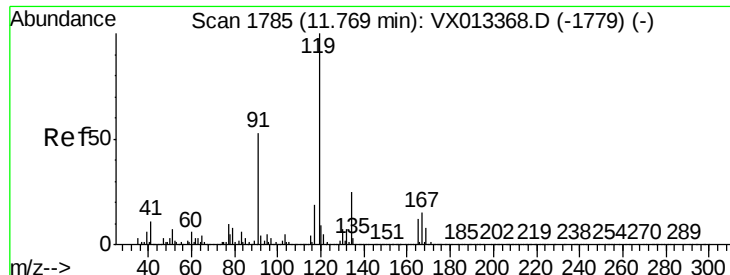
126 30.8 0.0 61.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V

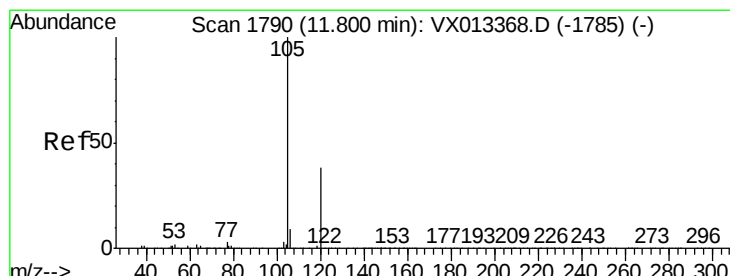
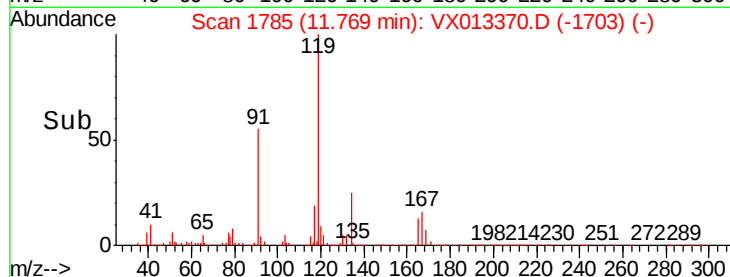
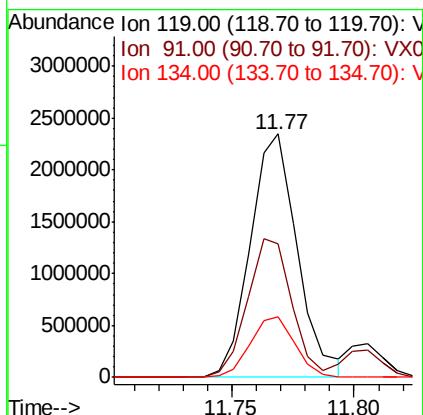
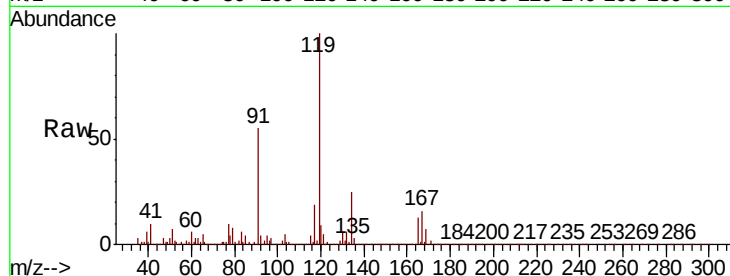




#79  
tert-butylbenzene  
Concen: 102.676 ug/l  
RT: 11.77 min Scan# 1785  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

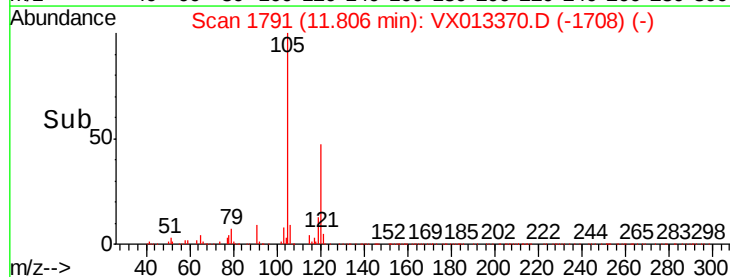
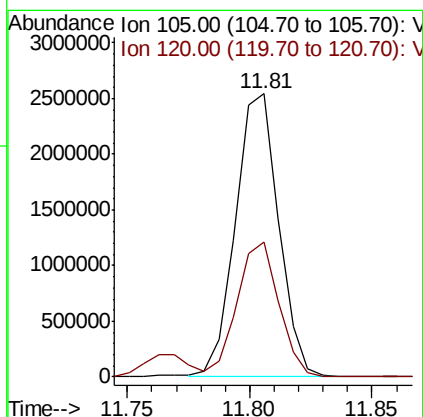
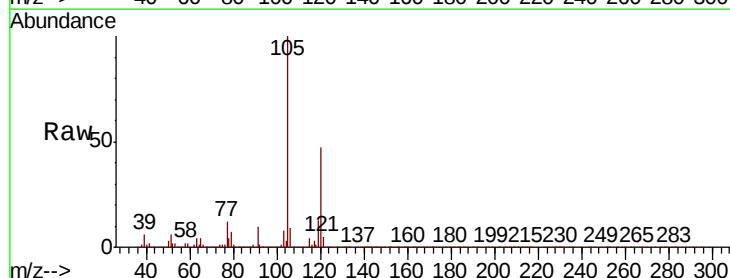
Instrument :  
MSVOA\_X  
ClientSampleId :

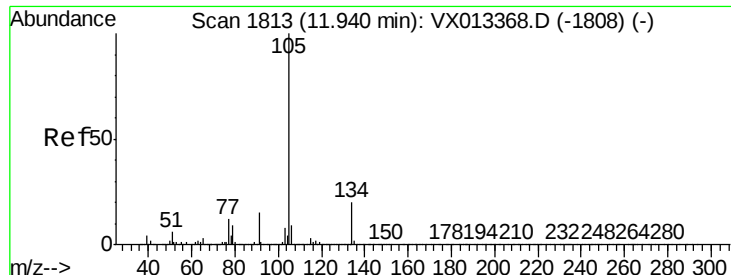
Tot Ion:119 Resp: 3158784  
Ion Ratio Lower Upper  
119 100  
91 53.6 0.0 109.6  
134 23.7 0.0 47.8



#80  
1,2,4-Trimethylbenzene  
Concen: 99.196 ug/l  
RT: 11.81 min Scan# 1791  
Delta R.T. 0.01 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion:105 Resp: 3118557  
Ion Ratio Lower Upper  
105 100  
120 46.2 0.0 94.0

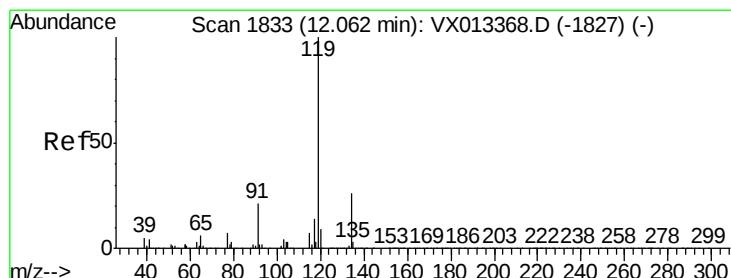
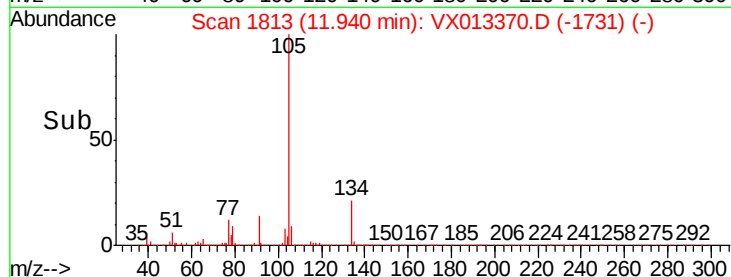
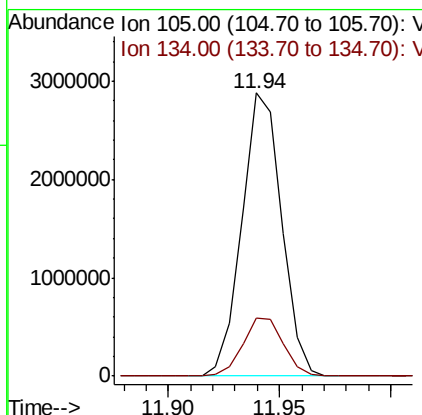
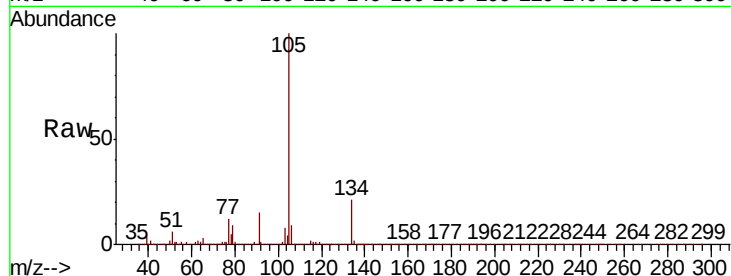




#81  
 sec-Butylbenzene  
 Concen: 99.793 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

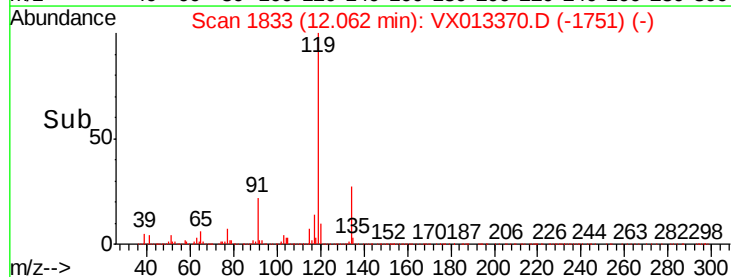
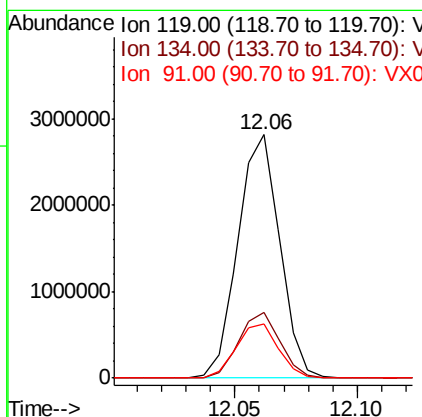
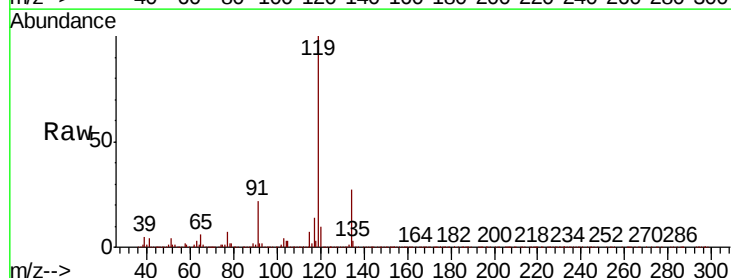
Instrument :  
 MSVOA\_X  
 ClientSampleId :

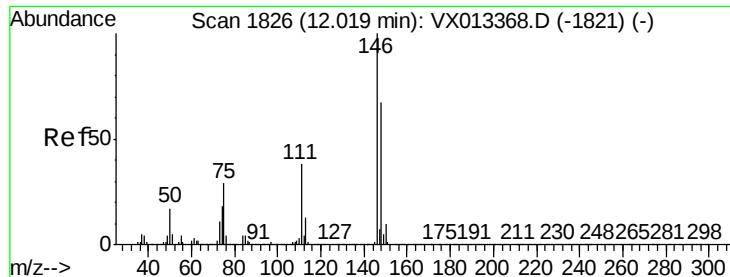
Tot Ion:105 Resp: 3592916  
 Ion Ratio Lower Upper  
 105 100  
 134 21.0 0.0 41.2



#82  
 p-Isopropyltoluene  
 Concen: 101.142 ug/l  
 RT: 12.06 min Scan# 1833  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

Tgt Ion:119 Resp: 3343683  
 Ion Ratio Lower Upper  
 119 100  
 134 26.7 0.0 51.6  
 91 22.6 0.0 44.2

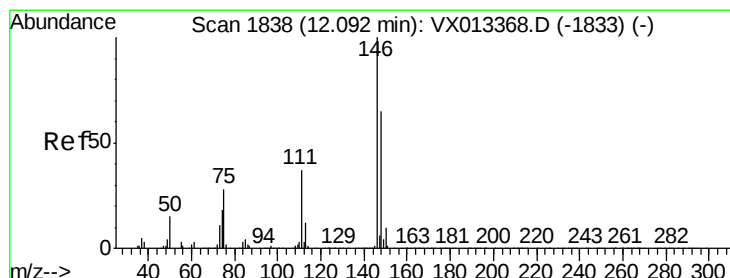
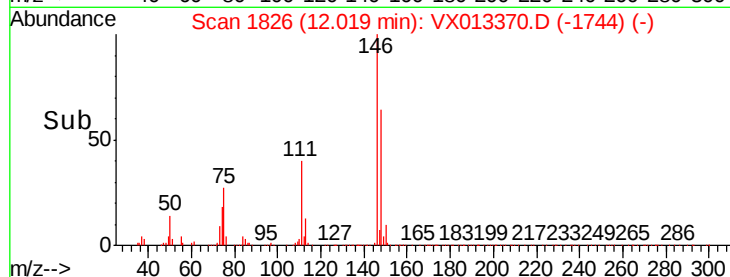
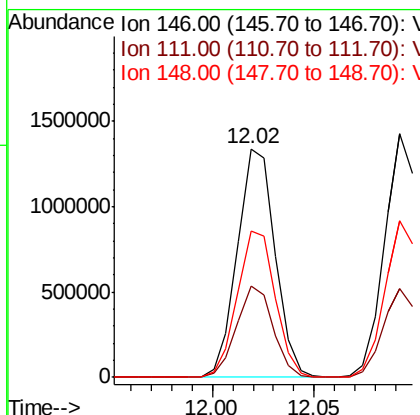
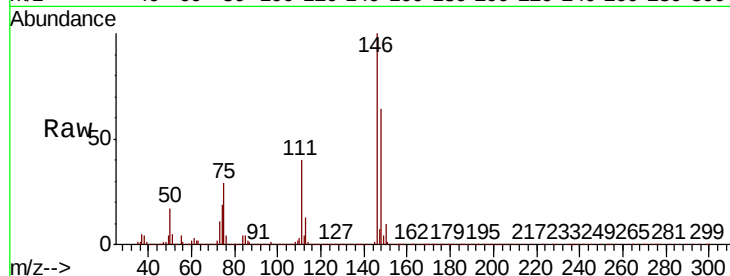




#83  
 1,3-Dichlorobenzene  
 Concen: 104.271 ug/l  
 RT: 12.02 min Scan# 1826  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

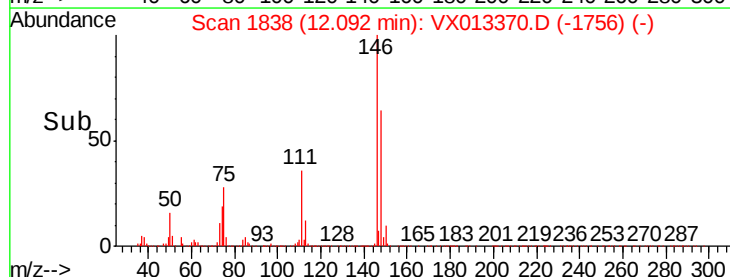
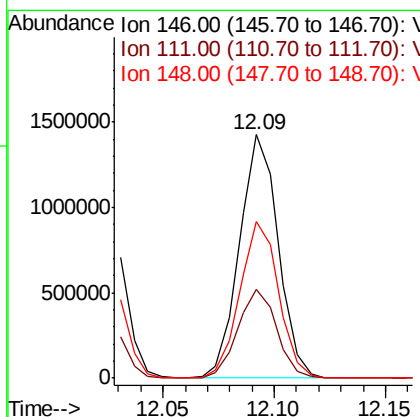
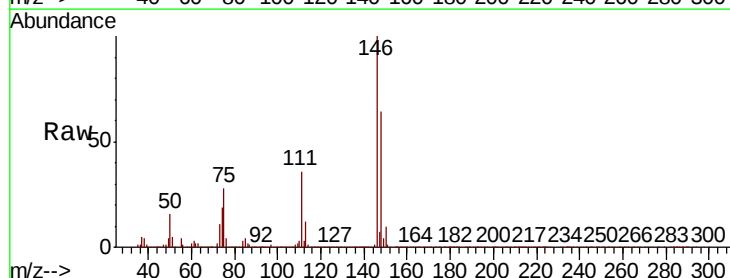
Instrument :  
 MSVOA\_X  
 ClientSampleId :

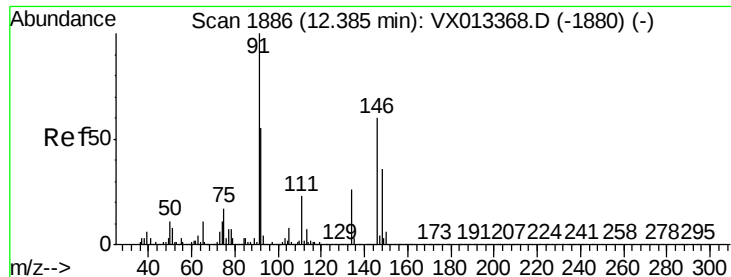
Tot Ion:146 Resp: 1726023  
 Ion Ratio Lower Upper  
 146 100  
 111 38.5 18.8 56.3  
 148 64.3 32.3 96.9



#84  
 1,4-Dichlorobenzene  
 Concen: 105.727 ug/l  
 RT: 12.09 min Scan# 1838  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

Tgt Ion:146 Resp: 1731162  
 Ion Ratio Lower Upper  
 146 100  
 111 36.4 18.6 55.6  
 148 64.3 32.5 97.4





#85

n-Butylbenzene

Concen: 105.421 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013370.D

Acq: 11 Nov 2019 17:39

Instrument :

MSVOA\_X

ClientSampleId :

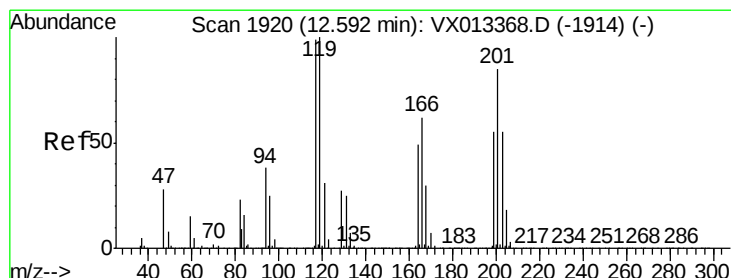
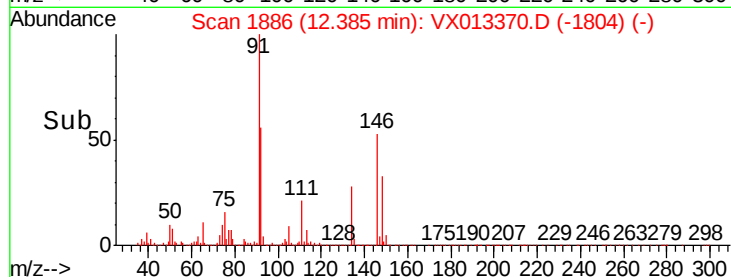
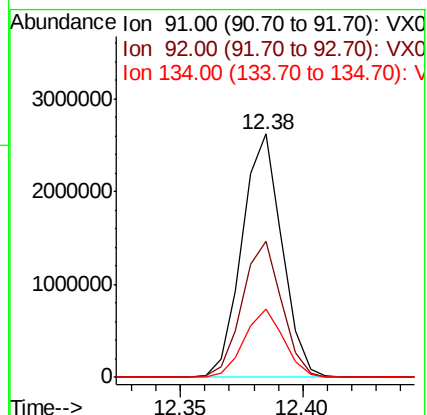
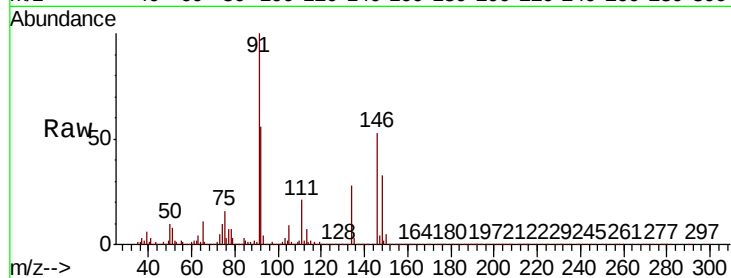
Tot Ion: 91 Resp: 2969280

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 55.3  | 0.0   | 109.0 |
| 134 | 27.4  | 0.0   | 53.0  |

91 100

92 55.3 0.0 109.0

134 27.4 0.0 53.0



#86

Hexachloroethane

Concen: 108.296 ug/l

RT: 12.59 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VX013370.D

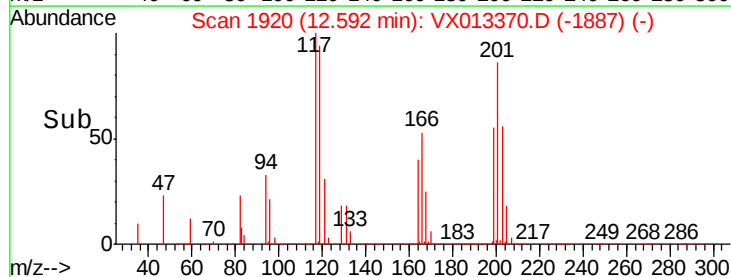
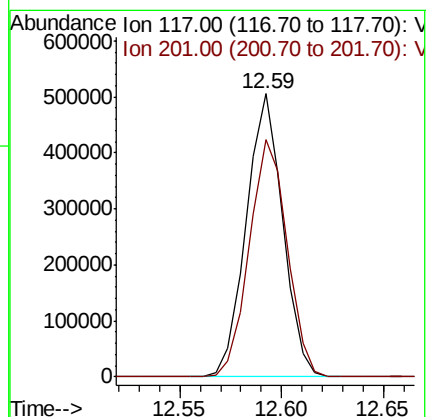
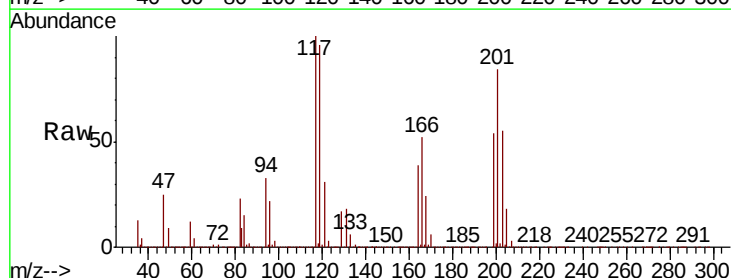
Acq: 11 Nov 2019 17:39

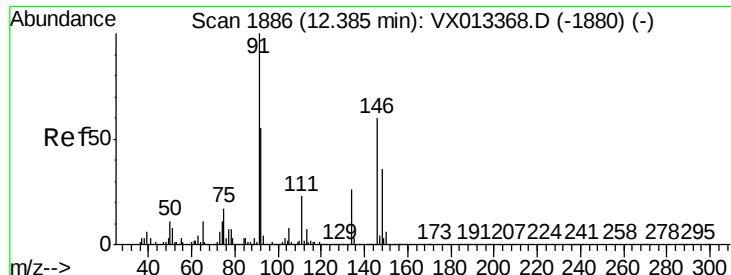
Tgt Ion: 117 Resp: 627841

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 201 | 87.1  | 44.5  | 133.3 |

117 100

201 87.1 44.5 133.3

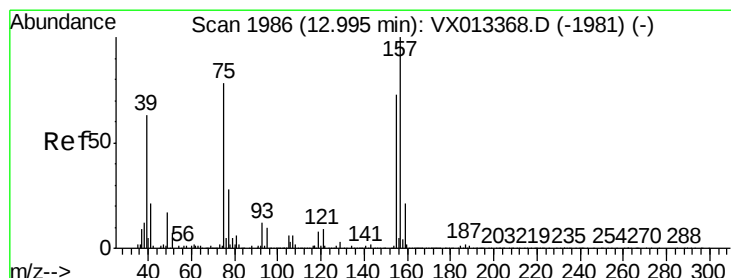
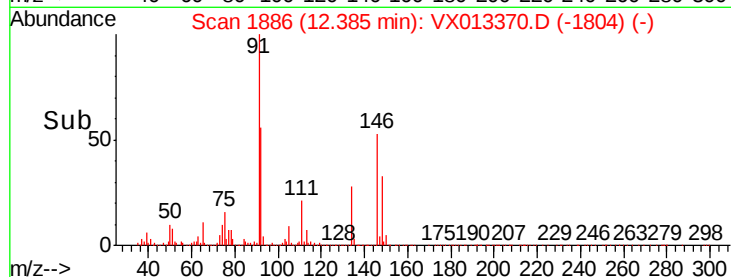
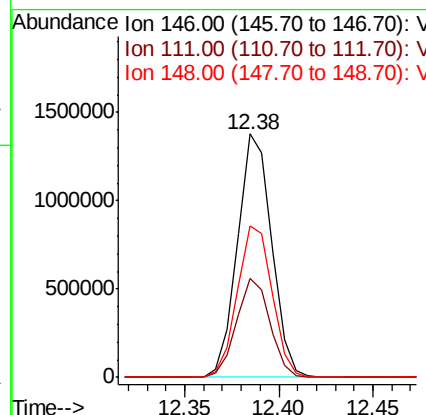
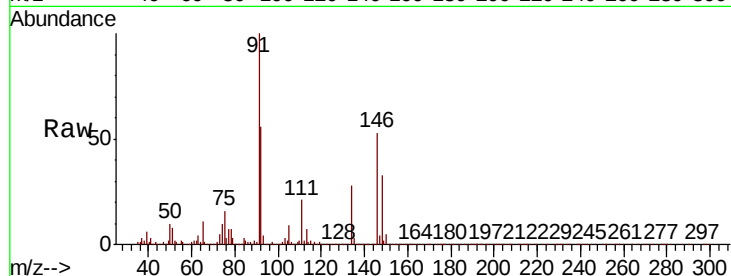




#87  
 1,2-Dichlorobenzene  
 Concen: 107.956 ug/l  
 RT: 12.38 min Scan# 1886  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

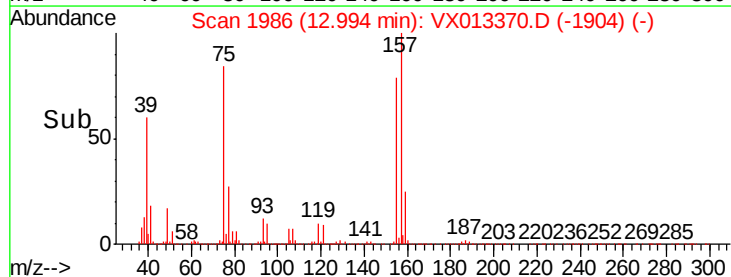
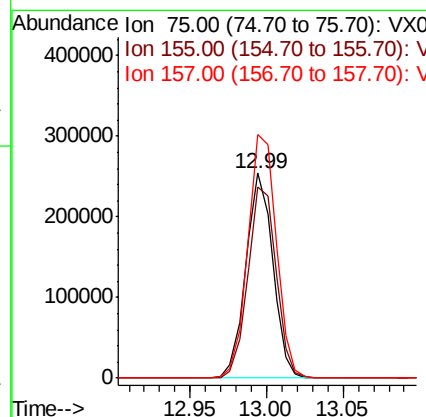
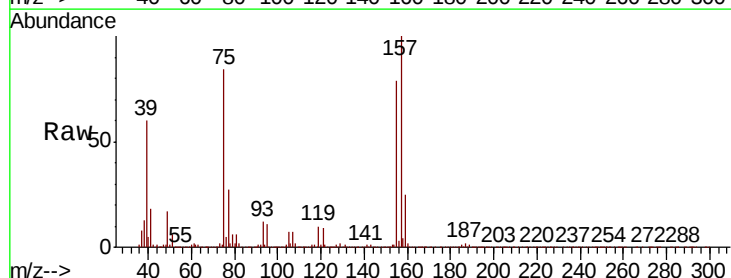
Instrument :  
 MSVOA\_X  
 ClientSampleId :

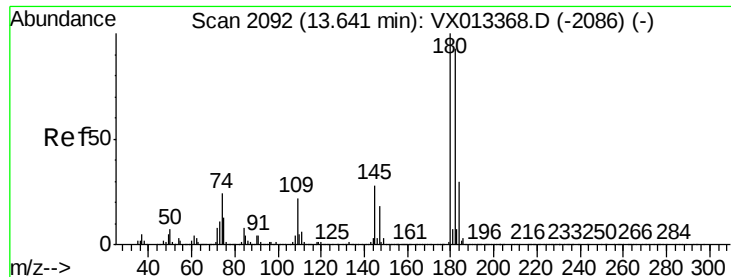
Tot Ion:146 Resp: 1737890  
 Ion Ratio Lower Upper  
 146 100  
 111 39.8 19.6 58.7  
 148 63.5 31.6 94.7



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 110.188 ug/l  
 RT: 12.99 min Scan# 1986  
 Delta R.T. -0.00 min  
 Lab File: VX013370.D  
 Acq: 11 Nov 2019 17:39

Tgt Ion: 75 Resp: 310647  
 Ion Ratio Lower Upper  
 75 100  
 155 97.5 76.9 115.3  
 157 125.7 101.2 151.8

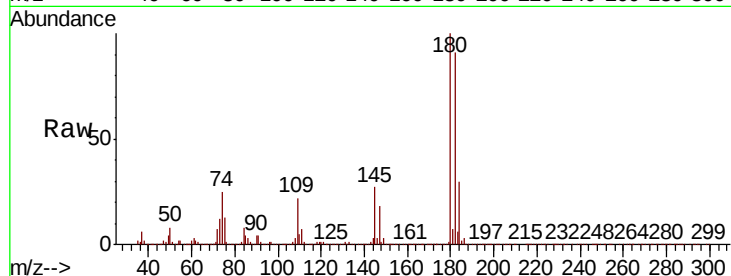




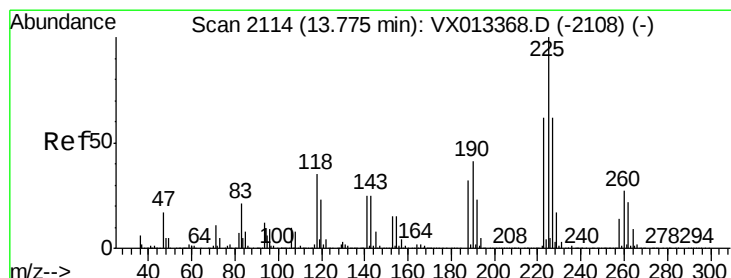
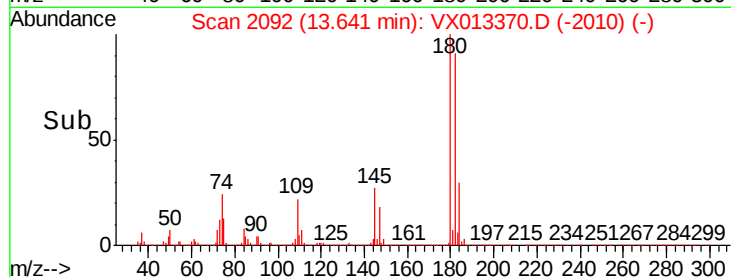
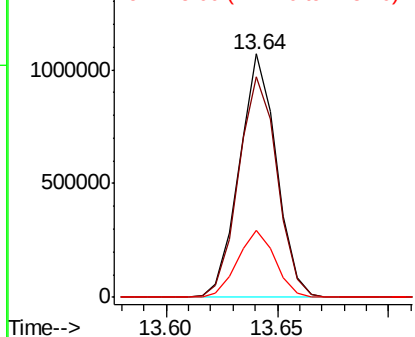
#89  
1,2,4-Trichlorobenzene  
Concen: 121.158 ug/l  
RT: 13.64 min Scan# 2092  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:180 Resp: 1242122  
Ion Ratio Lower Upper  
180 100  
182 94.4 74.7 112.1  
145 27.8 22.1 33.1

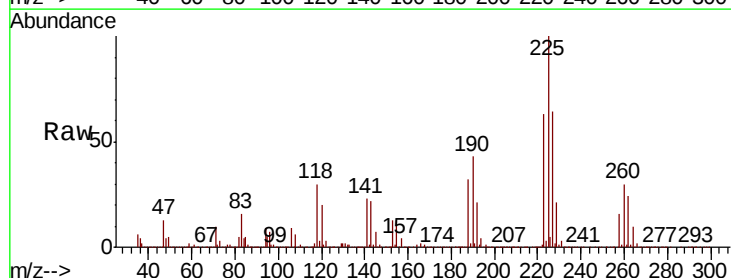


Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

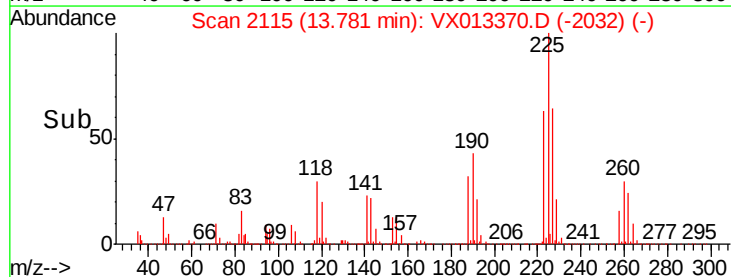
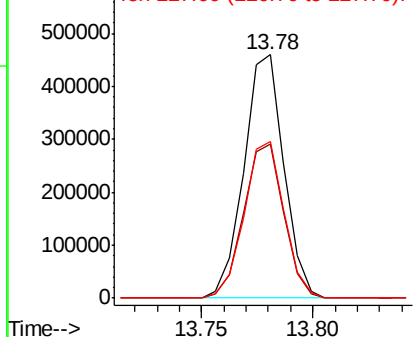


#90  
Hexachlorobutadiene  
Concen: 111.450 ug/l  
RT: 13.78 min Scan# 2115  
Delta R.T. 0.01 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion:225 Resp: 577524  
Ion Ratio Lower Upper  
225 100  
223 63.3 0.0 123.0  
227 64.1 0.0 121.8



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

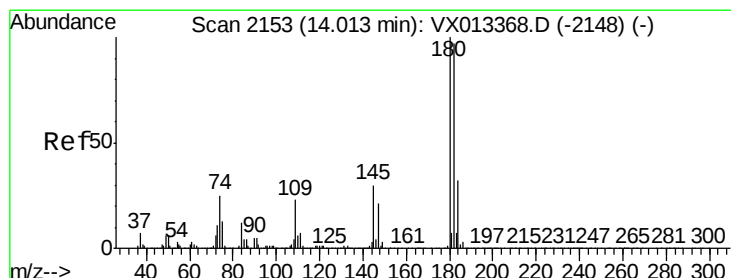
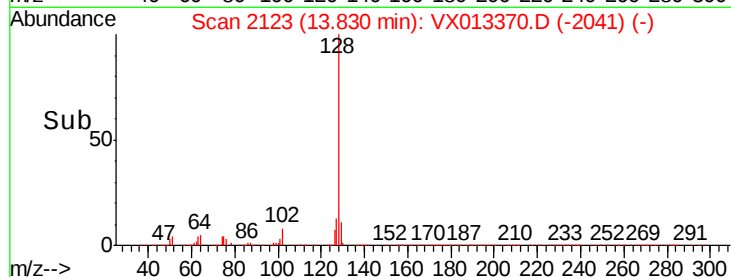
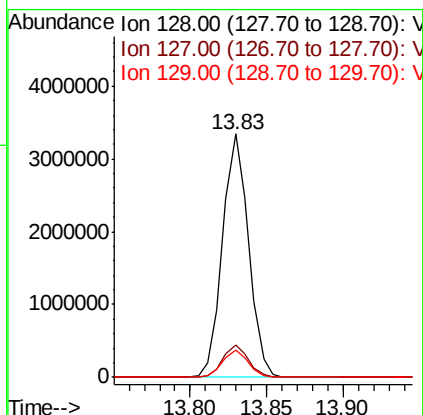
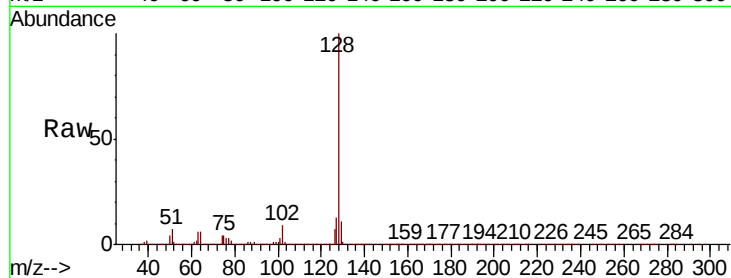




#91  
Naphthalene  
Concen: 118.812 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. -0.00 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:128 Resp: 3939694  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.2 15.2  
129 11.1 8.8 13.2



#92  
1,2,3-Trichlorobenzene  
Concen: 117.491 ug/l  
RT: 14.02 min Scan# 2154  
Delta R.T. 0.01 min  
Lab File: VX013370.D  
Acq: 11 Nov 2019 17:39

Tgt Ion:180 Resp: 1232310  
Ion Ratio Lower Upper  
180 100  
182 97.2 0.0 191.0  
145 30.7 0.0 59.0

