

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031220\  
 Data File : VX015219.D  
 Acq On : 11 Mar 2020 23:41  
 Operator : JC/SP  
 Sample : L1161-08 5PPB L00  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 12 08:43:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 12 08:39:57 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 49287    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 260282   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 240413   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 97137    | 29.21    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 97.37% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 111527   | 29.50    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 98.33% |
| 63) Toluene-d8            | 8.71   | 98    | 315511   | 29.83    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 99.43% |

## Target Compounds

|                               |      |     |       |        | Ovalue     |
|-------------------------------|------|-----|-------|--------|------------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 12302 | 5.116  | ug/l 97    |
| 3) Chloromethane              | 1.32 | 50  | 18462 | 5.292  | ug/l 98    |
| 4) Vinyl Chloride             | 1.40 | 62  | 18510 | 5.257  | ug/l 97    |
| 5) Bromomethane               | 1.64 | 94  | 12371 | 5.595  | ug/l 97    |
| 6) Chloroethane               | 1.72 | 64  | 11877 | 5.515  | ug/l 92    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 23565 | 5.535  | ug/l 93    |
| 8) Diethyl Ether              | 2.18 | 74  | 10620 | 5.468  | ug/l 96    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 14343 | 5.544  | ug/l 99    |
| 10) 1,1-Dichloroethene        | 2.37 | 96  | 13897 | 5.229  | ug/l 98    |
| 11) Methyl Iodide             | 2.50 | 142 | 9418  | 3.312  | ug/l 94    |
| 12) Methyl Acetate            | 2.76 | 43  | 20837 | 5.984  | ug/l 92    |
| 13) Acrolein                  | 2.28 | 56  | 14730 | 27.034 | ug/l 88    |
| 14) Acrylonitrile             | 3.14 | 53  | 42344 | 26.325 | ug/l 98    |
| 15) Acetone                   | 2.44 | 58  | 11960 | 29.101 | ug/l 79    |
| 16) Carbon Disulfide          | 2.56 | 76  | 39621 | 5.262  | ug/l 100   |
| 17) Allyl chloride            | 2.72 | 41  | 26415 | 5.292  | ug/l 97    |
| 18) Methylene Chloride        | 2.85 | 84  | 17246 | 5.528  | ug/l 99    |
| 19) trans-1,2-Dichloroethene  | 3.16 | 96  | 15384 | 5.175  | ug/l 91    |
| 20) Diisopropyl ether         | 3.84 | 45  | 51231 | 5.091  | ug/l 93    |
| 21) 1,1-Dichloroethane        | 3.69 | 63  | 27154 | 5.046  | ug/l 94    |
| 22) cis-1,2-Dichloroethene    | 4.59 | 96  | 16104 | 4.797  | ug/l 89    |
| 23) tert-Butyl Alcohol        | 3.03 | 59  | 19555 | 30.489 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 3.19 | 73  | 44797 | 5.167  | ug/l # 56  |
| 25) Chloroform                | 5.21 | 83  | 27216 | 5.281  | ug/l 97    |
| 26) Cyclohexane               | 5.58 | 56  | 24991 | 5.069  | ug/l # 99  |
| 29) 1,1-Dichloropropene       | 5.79 | 75  | 20301 | 5.230  | ug/l 96    |
| 30) 2-Butanone                | 4.67 | 43  | 55316 | 26.231 | ug/l 98    |
| 31) 2,2-Dichloropropane       | 4.58 | 77  | 15923 | 4.653  | ug/l 95    |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 22179 | 5.295  | ug/l 99    |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 19201 | 5.280  | ug/l 95    |
| 34) Benzene                   | 6.14 | 78  | 64409 | 5.407  | ug/l 98    |
| 35) Methacrylonitrile         | 5.03 | 41  | 12144 | 5.270  | ug/l 89    |
| 36) 1,2-Dichloroethane        | 6.18 | 62  | 20844 | 5.268  | ug/l # 86  |
| 37) Trichloroethene           | 7.21 | 130 | 18113 | 5.443  | ug/l 98    |
| 38) Methylcyclohexane         | 7.46 | 83  | 23883 | 5.211  | ug/l 98    |
| 39) 1,2-Dichloropropane       | 7.51 | 63  | 16506 | 5.385  | ug/l 96    |
| 40) Dibromomethane            | 7.66 | 93  | 10631 | 5.337  | ug/l 92    |

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 ALS Vial : 40 Sample Multiplier: 1

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 ClientSampleId :

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 12 08:39:57 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 41) Bromodichloromethane       | 7.89  | 83   | 19229    | 5.053   | ug/l   | 97       |
| 42) Vinyl Acetate              | 3.81  | 43   | 198508   | 24.210  | ug/l   | 99       |
| 43) Ethyl Acetate              | 4.83  | 43   | 22695    | 5.403   | ug/l # | 96       |
| 45) 1,4-Dioxane                | 7.74  | 88   | 7667     | 107.392 | ug/l # | 89       |
| 46) Methyl methacrylate        | 7.76  | 41   | 15975    | 4.764   | ug/l   | 96       |
| 47) n-amyl Acetate             | 10.89 | 43   | 23490    | 4.092   | ug/l   | 99       |
| 48) t-1,3-Dichloropropene      | 9.04  | 75   | 20767    | 5.026   | ug/l   | 91       |
| 49) cis-1,3-Dichloropropene    | 8.43  | 75   | 23111    | 4.935   | ug/l # | 93       |
| 50) 1,1,2-Trichloroethane      | 9.21  | 97   | 16488    | 5.559   | ug/l   | 90       |
| 51) Ethyl methacrylate         | 9.17  | 69   | 22416    | 4.920   | ug/l   | 98       |
| 52) 1,3-Dichloropropane        | 9.37  | 76   | 27706    | 5.517   | ug/l   | 100      |
| 53) Dibromochloromethane       | 9.57  | 129  | 15171    | 4.851   | ug/l   | 100      |
| 54) 1,2-Dibromoethane          | 9.67  | 107  | 17234    | 5.599   | ug/l   | 94       |
| 55) 2-Chloroethyl vinyl ether  | 8.31  | 63   | 55044    | 23.564  | ug/l   | 97       |
| 56) Bromoform                  | 10.85 | 173  | 11393    | 4.792   | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone       | 8.64  | 43   | 107090   | 25.659  | ug/l   | 98       |
| 59) 2-Hexanone                 | 9.49  | 43   | 78590    | 25.163  | ug/l   | 98       |
| 61) Tetrachloroethene          | 9.33  | 164  | 17972    | 5.407   | ug/l   | 96       |
| 62) Toluene                    | 8.78  | 91   | 66926    | 5.280   | ug/l   | 98       |
| 64) Chlorobenzene              | 10.14 | 112  | 43242    | 5.459   | ug/l   | 95       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 14841    | 5.089   | ug/l   | 98       |
| 66) Ethyl Benzene              | 10.24 | 91   | 70100    | 5.134   | ug/l   | 97       |
| 67) m/p-Xylenes                | 10.35 | 106  | 54454    | 10.402  | ug/l   | 99       |
| 68) o-Xylene                   | 10.70 | 106  | 26268    | 5.257   | ug/l   | 99       |
| 69) Styrene                    | 10.71 | 104  | 43498    | 4.951   | ug/l   | 97       |
| 70) Isopropylbenzene           | 11.01 | 105  | 67586    | 5.057   | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 22699    | 5.195   | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane     | 11.29 | 75   | 24887    | 7.004   | ug/l   | 96       |
| 73) Bromobenzene               | 11.25 | 156  | 19235    | 5.261   | ug/l   | 100      |
| 74) n-propylbenzene            | 11.35 | 91   | 78353    | 5.079   | ug/l   | 100      |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 47757    | 5.247   | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 55916    | 5.056   | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene    | 11.07 | 75   | 5726     | 4.125   | ug/l   | 79       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 55907    | 5.305   | ug/l   | 99       |
| 79) tert-butylbenzene          | 11.76 | 119  | 54168    | 5.123   | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 56176    | 5.030   | ug/l   | 99       |
| 81) sec-Butylbenzene           | 11.94 | 105  | 66207    | 5.072   | ug/l   | 98       |
| 82) p-Isopropyltoluene         | 12.06 | 119  | 59472    | 5.005   | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene        | 12.02 | 146  | 34508    | 5.309   | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 12.09 | 146  | 34947    | 5.375   | ug/l   | 98       |
| 85) n-Butylbenzene             | 12.38 | 91   | 50341    | 4.876   | ug/l   | 98       |
| 86) Hexachloroethane           | 12.59 | 117  | 10178    | 4.817   | ug/l   | 99       |
| 87) 1,2-Dichlorobenzene        | 12.38 | 146  | 33830    | 5.354   | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 4605     | 5.132   | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 24043    | 5.247   | ug/l   | 99       |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 11793    | 5.212   | ug/l   | 97       |
| 91) Naphthalene                | 13.83 | 128  | 59884    | 4.645   | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 24203    | 5.240   | ug/l   | 100      |

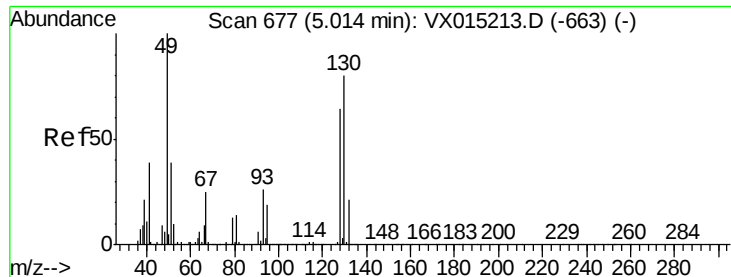
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031220\  
Data File : VX015219.D  
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Misc : 5.0mL/MSVOA X/WATER  
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Instrument :  
MSVOA\_X  
ClientSampleId :

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| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

ClientSampleId :

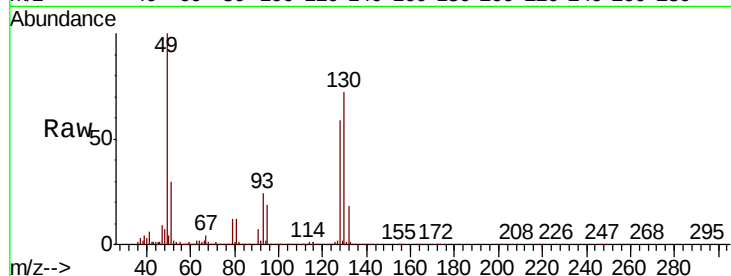
Tot Ion:128 Resp: 49287

Ion Ratio Lower Upper

128 100

49 160.7 0.0 410.8

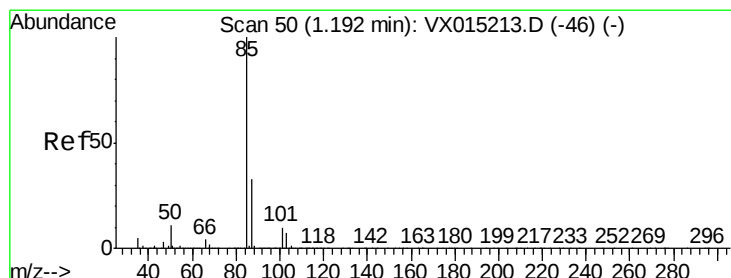
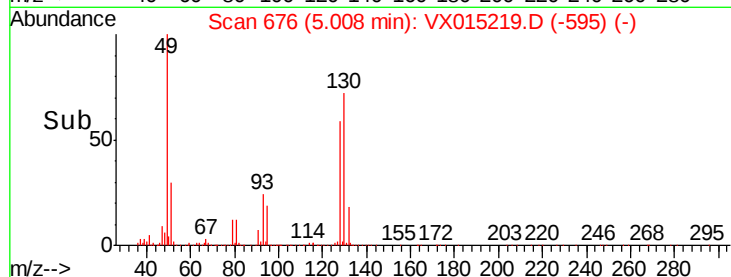
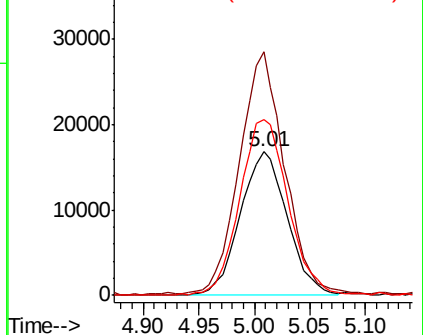
130 126.3 0.0 324.3



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



#2

Dichlorodifluoromethane

Concen: 5.116 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015219.D

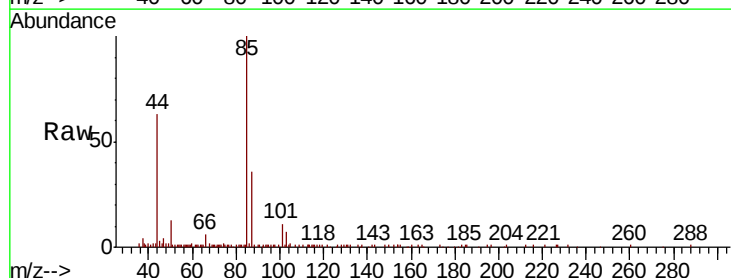
Acq: 11 Mar 2020 23:41

Tgt Ion: 85 Resp: 12302

Ion Ratio Lower Upper

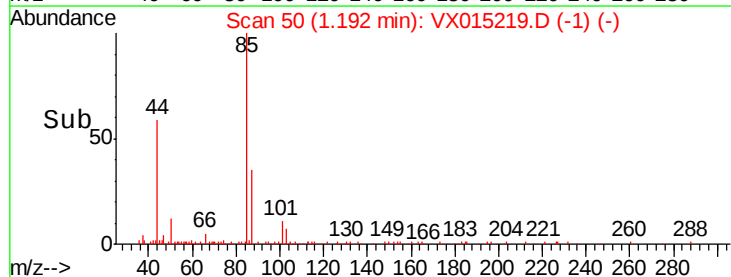
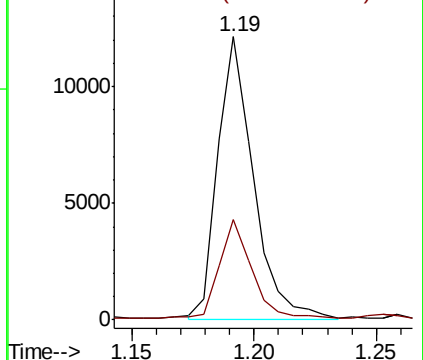
85 100

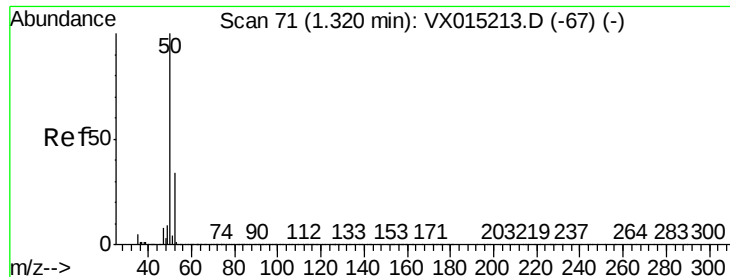
87 35.0 16.6 49.8



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

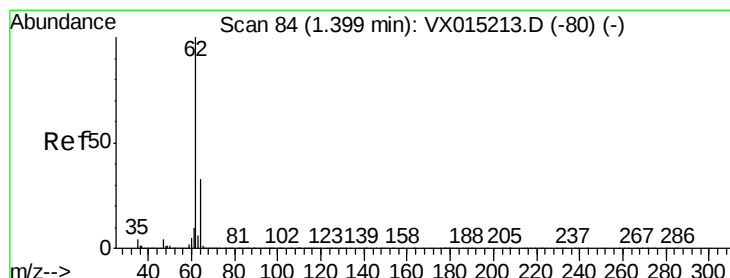
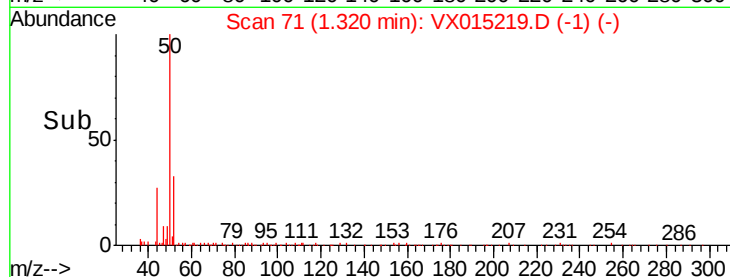
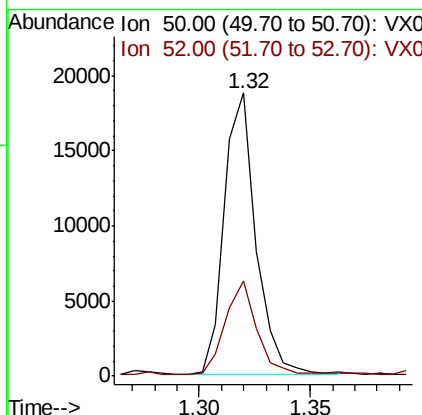
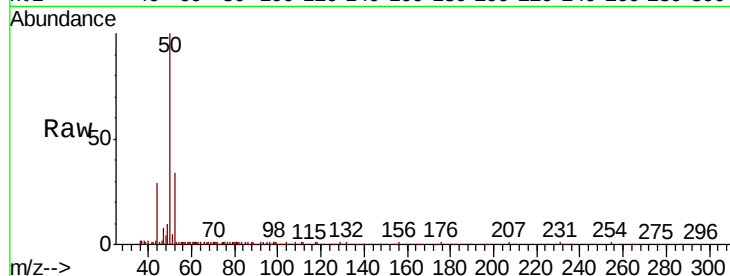




#3  
Chloromethane  
Concen: 5.292 ug/l  
RT: 1.32 min Scan# 71  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

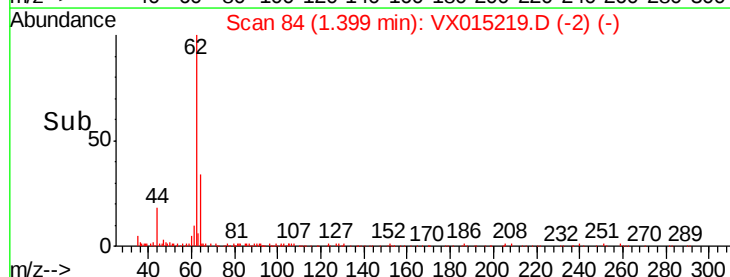
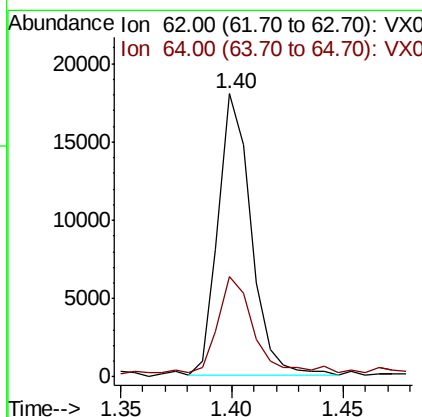
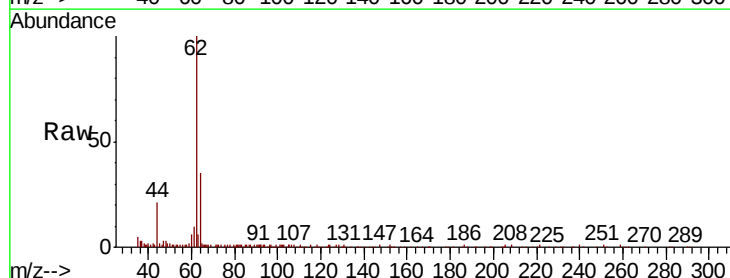
Instrument :  
MSVOA\_X  
ClientSampleId :

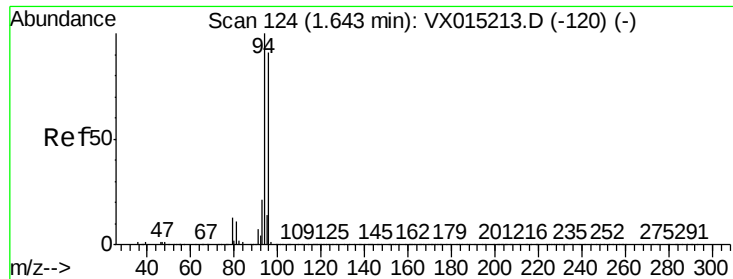
Tot Ion: 50 Resp: 18462  
Ion Ratio Lower Upper  
50 100  
52 32.9 27.4 41.0



#4  
Vinyl Chloride  
Concen: 5.257 ug/l  
RT: 1.40 min Scan# 84  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion: 62 Resp: 18510  
Ion Ratio Lower Upper  
62 100  
64 34.0 25.9 38.9





#5

Bromomethane

Concen: 5.595 ug/l

RT: 1.64 min Scan# 123

Delta R.T. -0.01 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

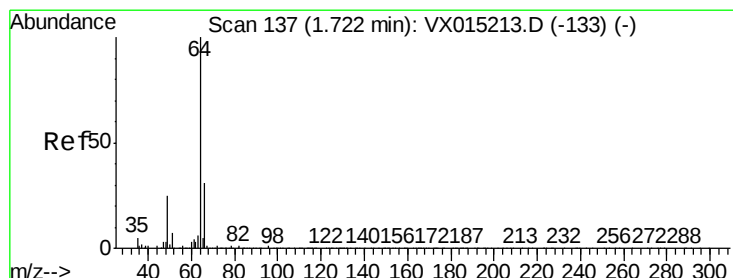
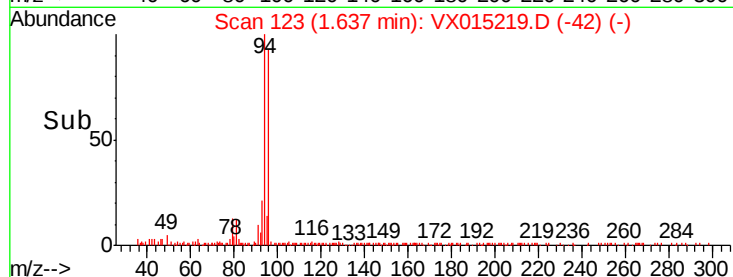
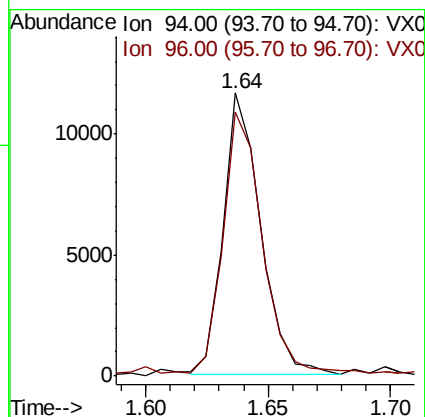
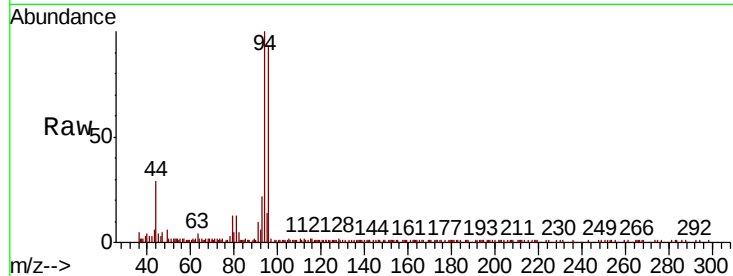
ClientSampleId :

Tot Ion: 94 Resp: 12371

Ion Ratio Lower Upper

94 100

96 92.7 72.2 108.2



#6

Chloroethane

Concen: 5.515 ug/l

RT: 1.72 min Scan# 137

Delta R.T. -0.00 min

Lab File: VX015219.D

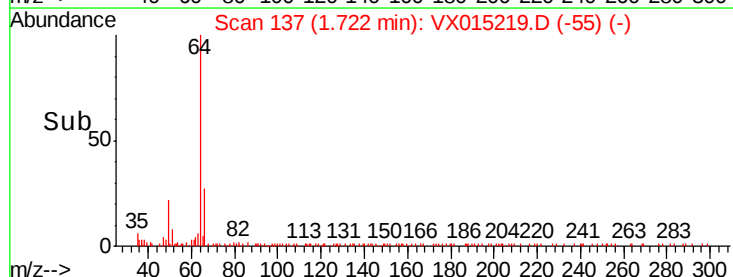
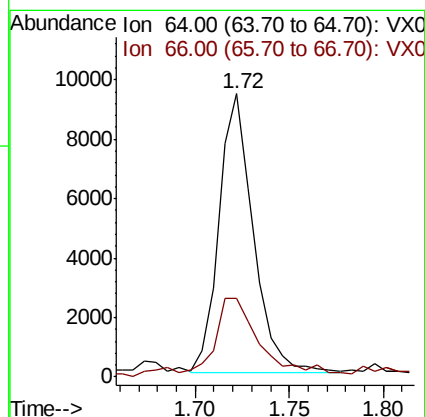
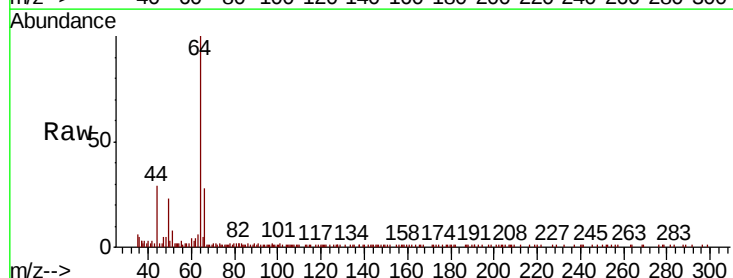
Acq: 11 Mar 2020 23:41

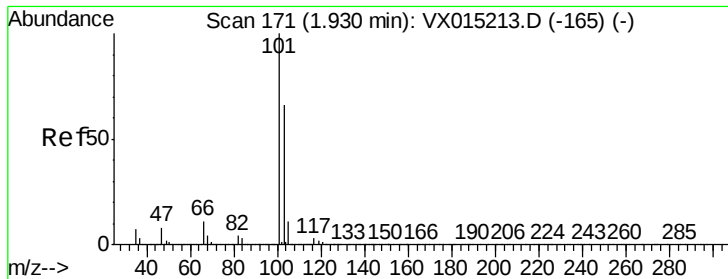
Tgt Ion: 64 Resp: 11877

Ion Ratio Lower Upper

64 100

66 26.6 24.9 37.3



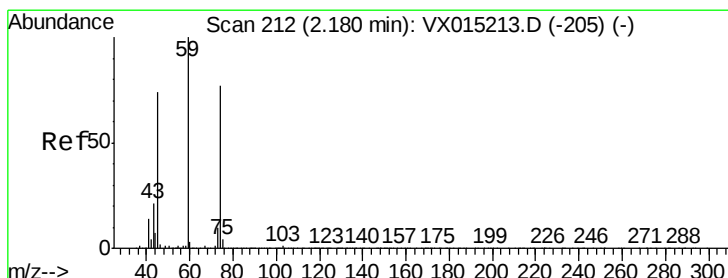
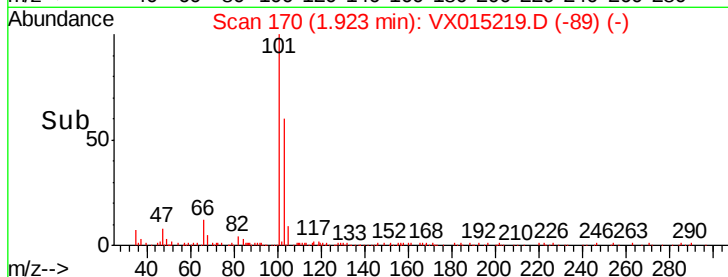
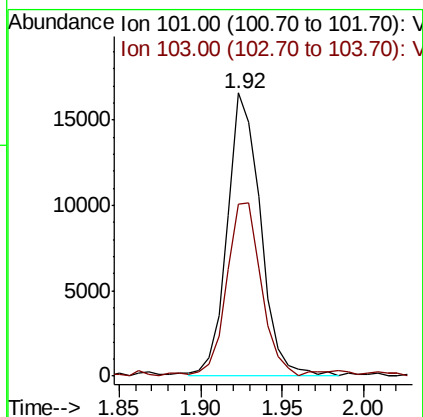
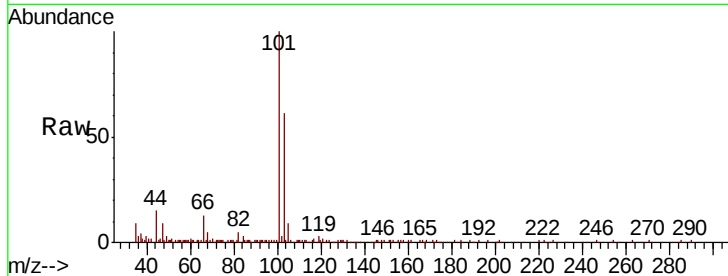


#7

Trichlorofluoromethane  
Concen: 5.535 ug/l  
RT: 1.92 min Scan# 170  
Delta R.T. -0.01 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Instrument :  
MSVOA\_X  
ClientSampleId :

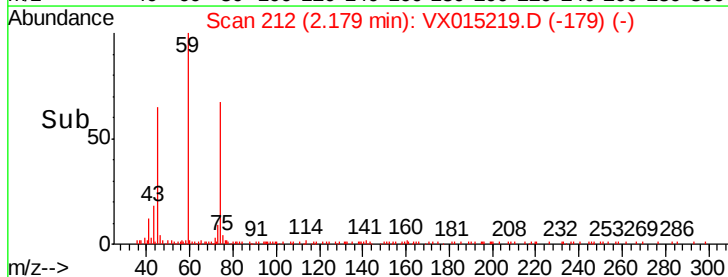
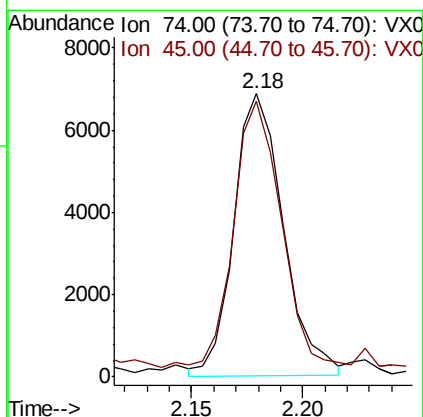
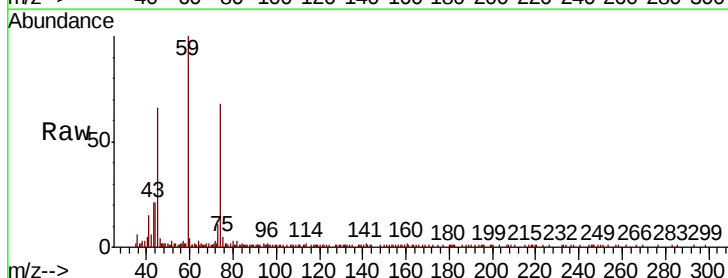
Tot Ion:101 Resp: 23565  
Ion Ratio Lower Upper  
101 100  
103 59.9 52.5 78.7

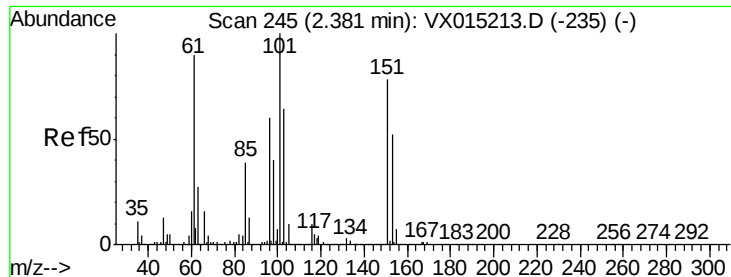


#8

Diethyl Ether  
Concen: 5.468 ug/l  
RT: 2.18 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion: 74 Resp: 10620  
Ion Ratio Lower Upper  
74 100  
45 91.4 19.1 171.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.544 ug/l

RT: 2.38 min Scan# 245

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

ClientSampleId :

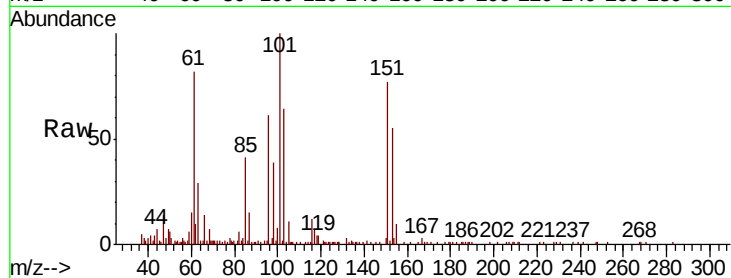
Tot Ion:101 Resp: 14343

Ion Ratio Lower Upper

101 100

85 40.9 0.0 84.6

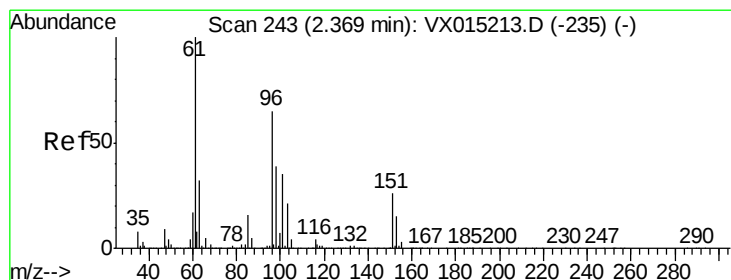
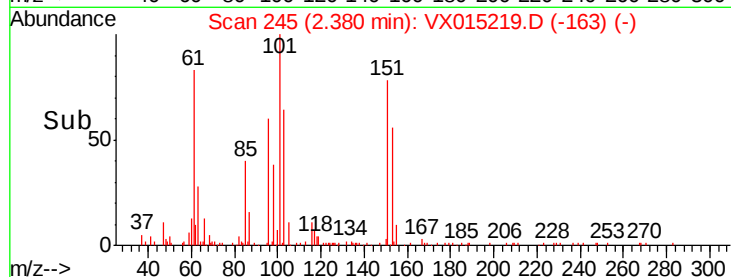
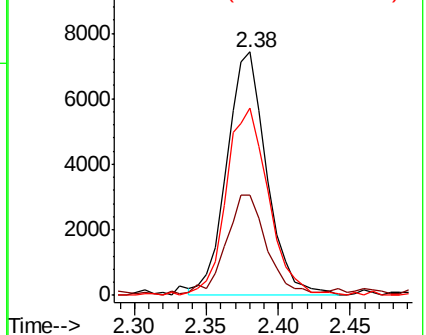
151 81.0 0.0 161.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 5.229 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

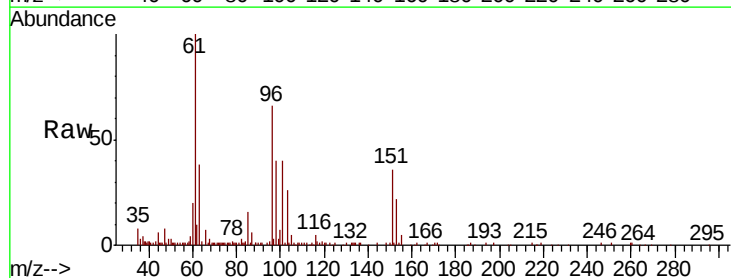
Tgt Ion: 96 Resp: 13897

Ion Ratio Lower Upper

96 100

61 151.4 123.1 184.7

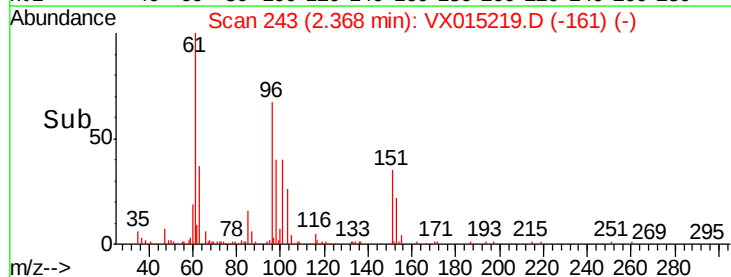
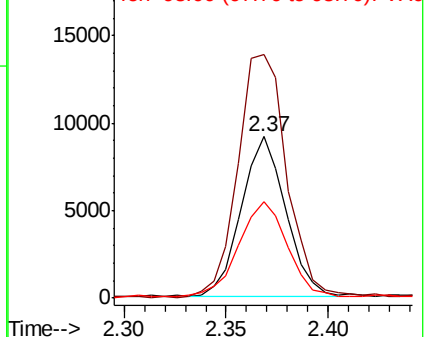
98 59.2 48.1 72.1

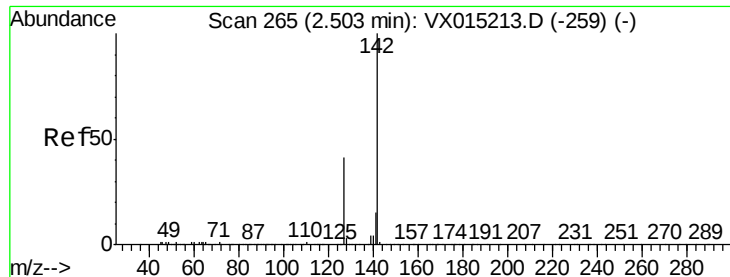


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

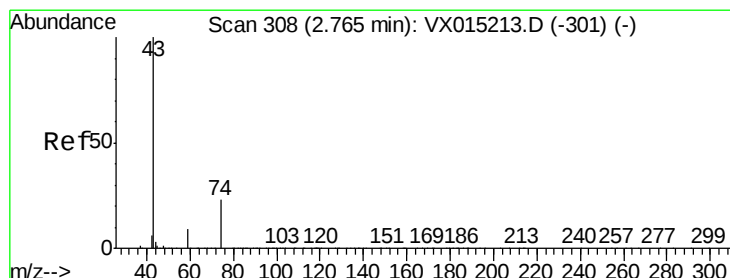
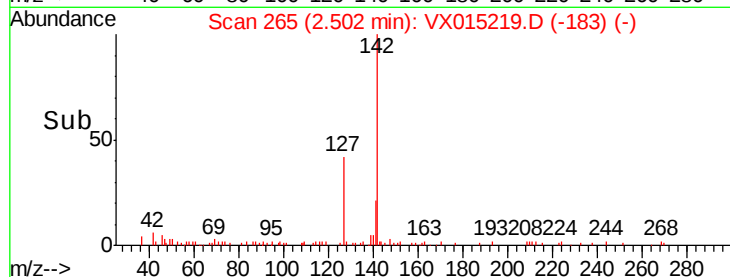
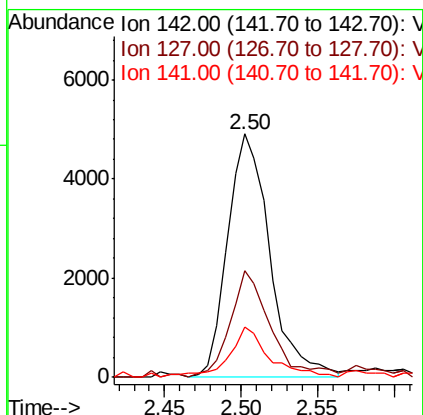
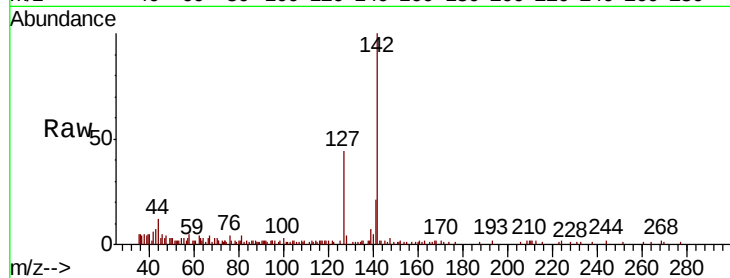




#11  
Methvl Iodide  
Concen: 3.312 ug/l  
RT: 2.50 min Scan# 265  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

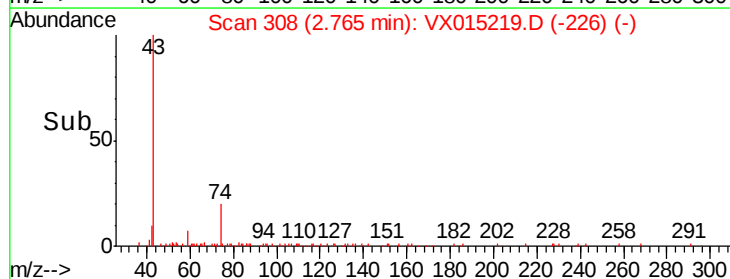
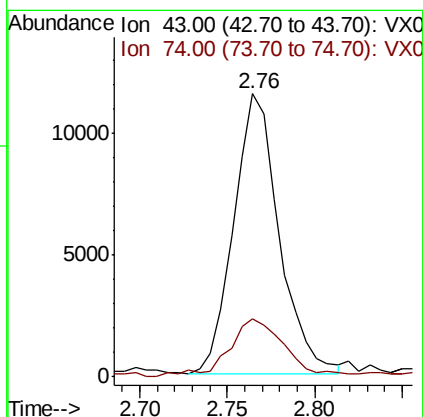
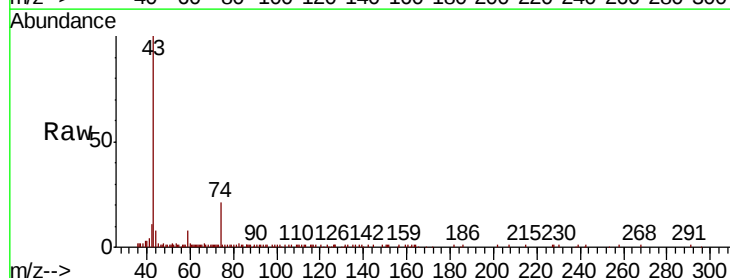
Instrument :  
MSVOA\_X  
ClientSampleId :

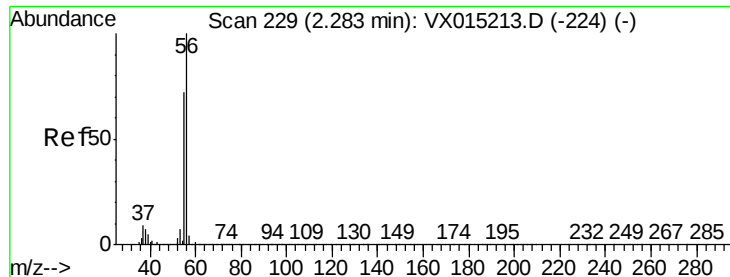
Tot Ion:142 Resp: 9418  
Ion Ratio Lower Upper  
142 100  
127 43.7 20.7 62.1  
141 20.4 7.5 22.6



#12  
Methyl Acetate  
Concen: 5.984 ug/l  
RT: 2.76 min Scan# 308  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion: 43 Resp: 20837  
Ion Ratio Lower Upper  
43 100  
74 18.9 18.3 27.5

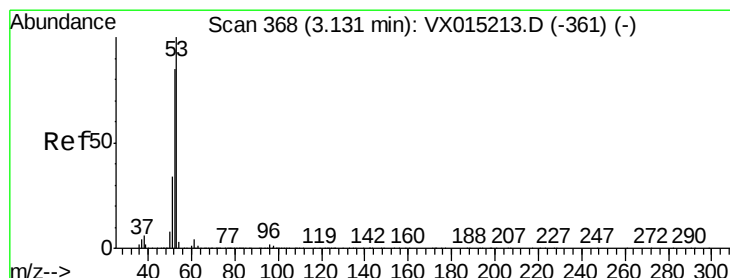
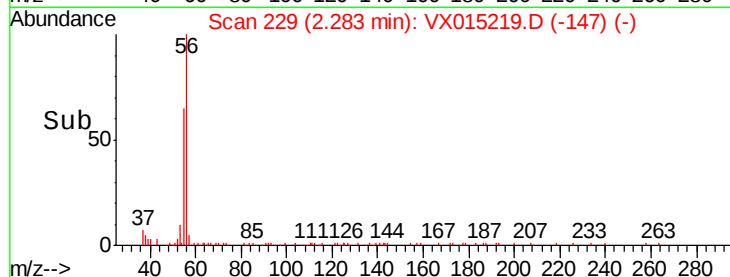
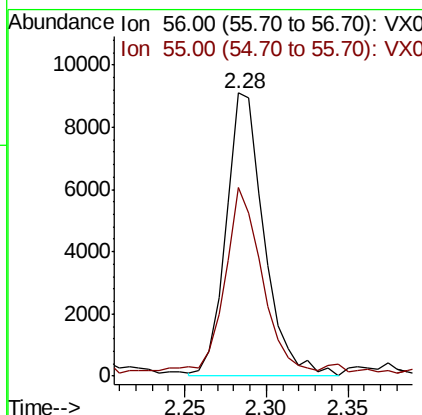
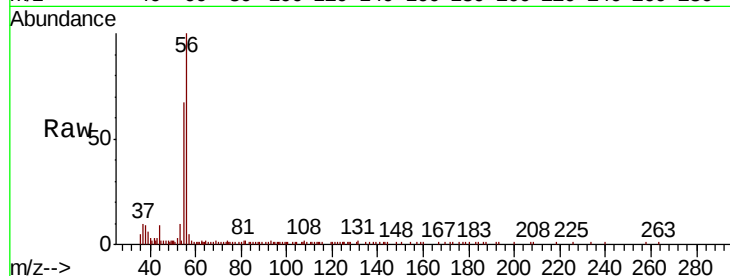




#13  
Acrolein  
Concen: 27.034 ug/l  
RT: 2.28 min Scan# 229  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

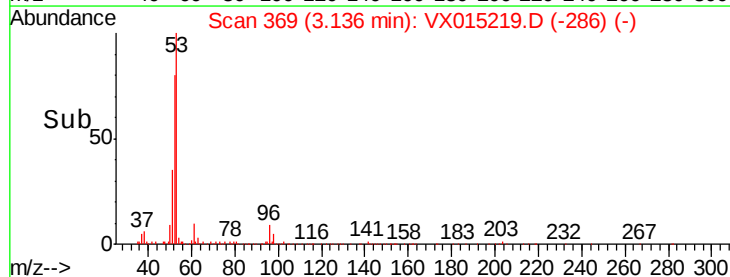
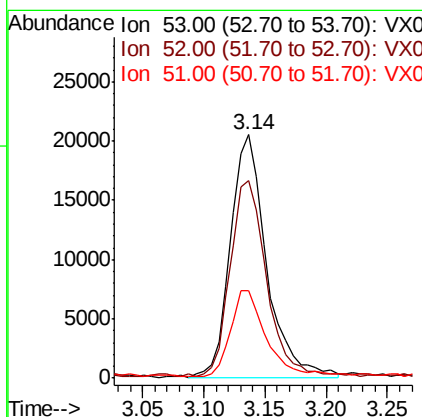
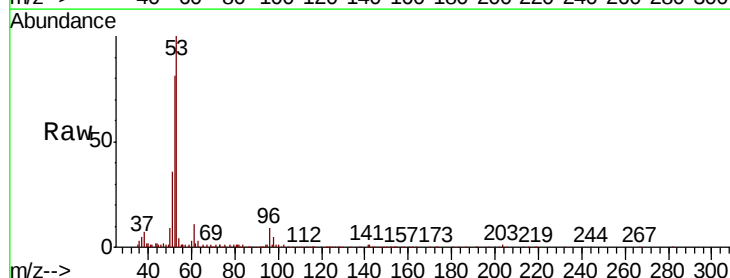
Instrument :  
MSVOA\_X  
ClientSampleId :

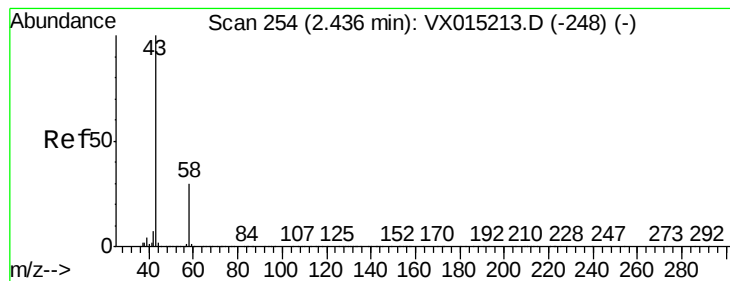
Tot Ion: 56 Resp: 14730  
Ion Ratio Lower Upper  
56 100  
55 60.4 56.2 84.4



#14  
Acrylonitrile  
Concen: 26.325 ug/l  
RT: 3.14 min Scan# 369  
Delta R.T. 0.01 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion: 53 Resp: 42344  
Ion Ratio Lower Upper  
53 100  
52 81.4 41.1 123.3  
51 33.7 18.1 54.4





#15

Acetone

Concen: 29.101 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

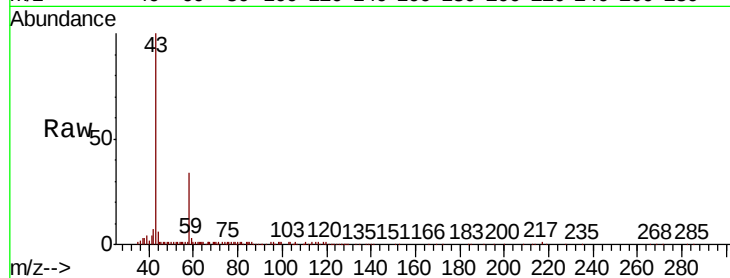
ClientSampleId :

Tot Ion: 58 Resp: 11960

Ion Ratio Lower Upper

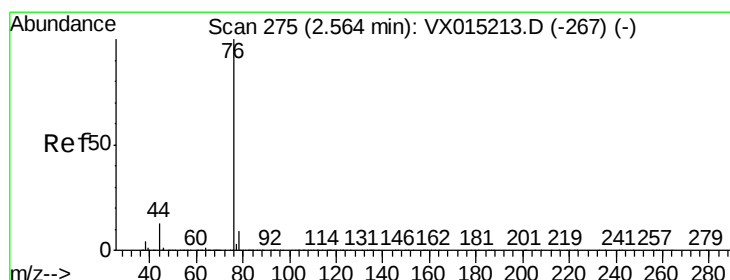
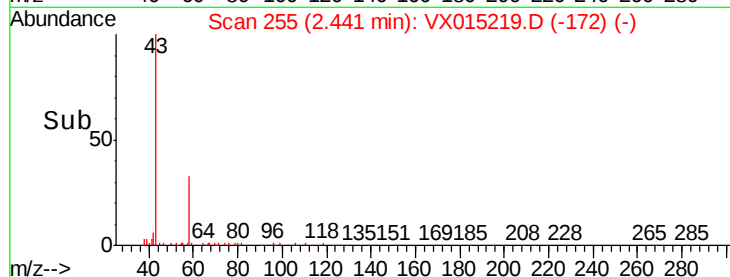
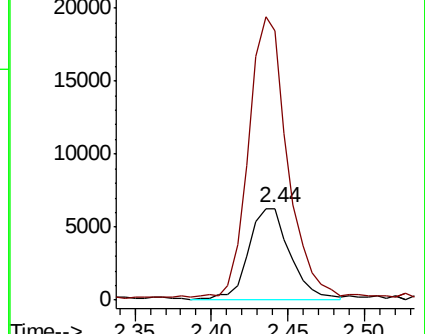
58 100

43 290.5 267.7 401.5



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 5.262 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.00 min

Lab File: VX015219.D

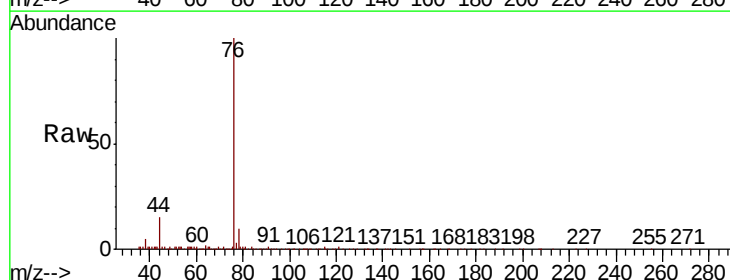
Acq: 11 Mar 2020 23:41

Tgt Ion: 76 Resp: 39621

Ion Ratio Lower Upper

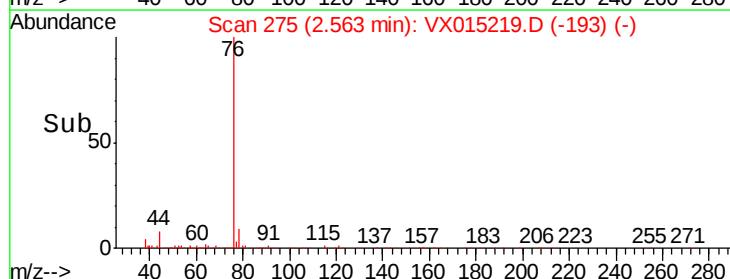
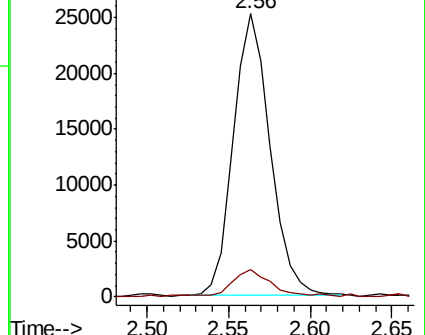
76 100

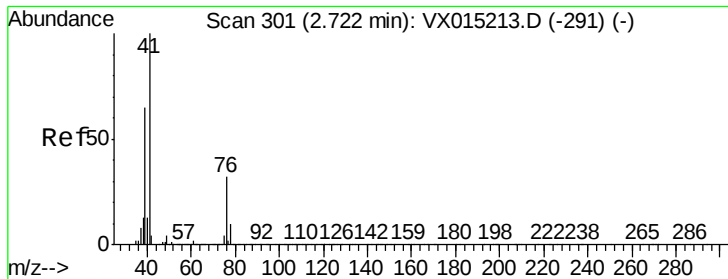
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

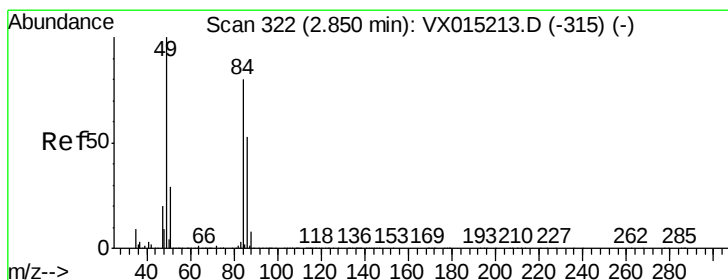
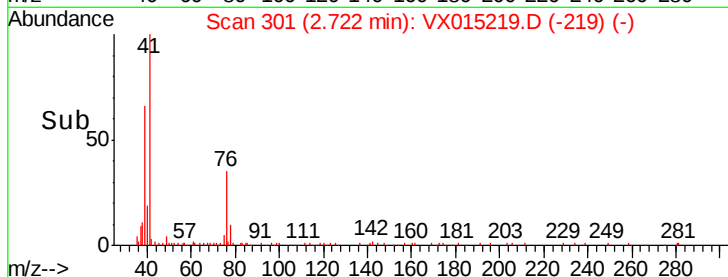
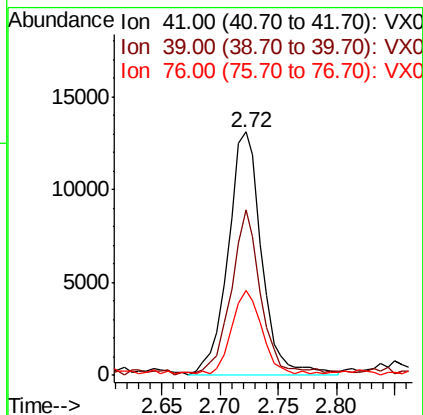
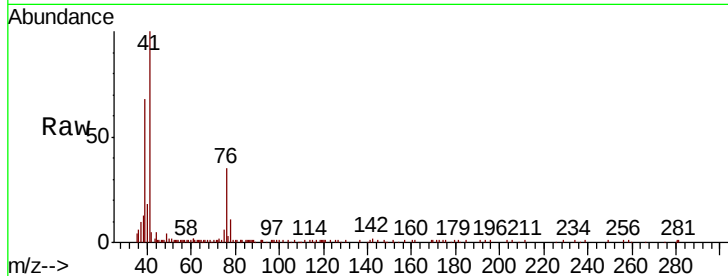




#17  
Allvl chloride  
Concen: 5.292 ug/l  
RT: 2.72 min Scan# 301  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

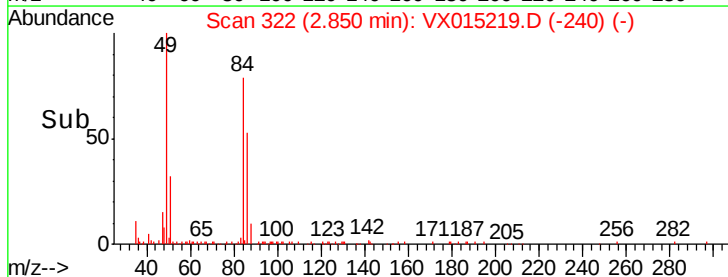
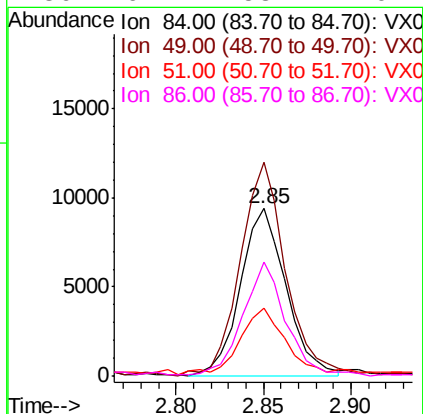
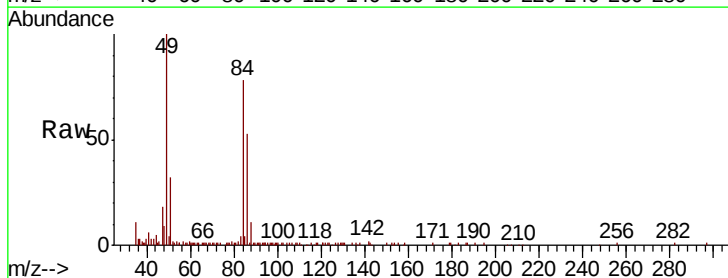
Instrument :  
MSVOA\_X  
ClientSampleId :

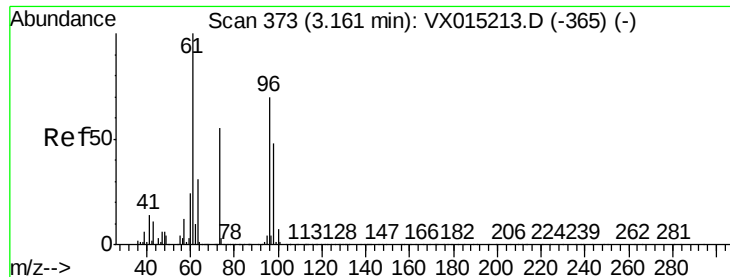
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 67.4  | 32.6  | 97.7  |
| 76      | 34.3  | 16.2  | 48.5  |



#18  
Methylene Chloride  
Concen: 5.528 ug/l  
RT: 2.85 min Scan# 322  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 124.7 | 100.5 | 150.7 |
| 51      | 37.0  | 28.7  | 43.1  |
| 86      | 67.1  | 53.1  | 79.7  |





#19

trans-1,2-Dichloroethene

Concen: 5.175 ug/l

RT: 3.16 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :  
MSVOA\_X  
ClientSampled :

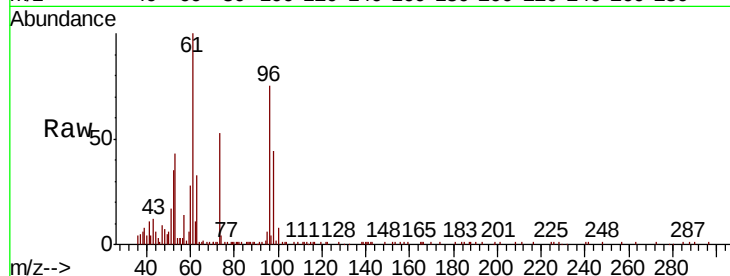
Tot Ion: 96 Resp: 15384

Ion Ratio Lower Upper

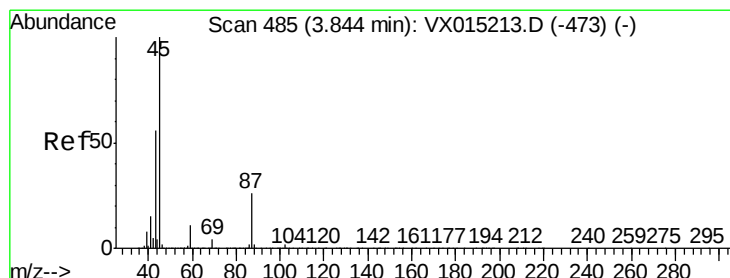
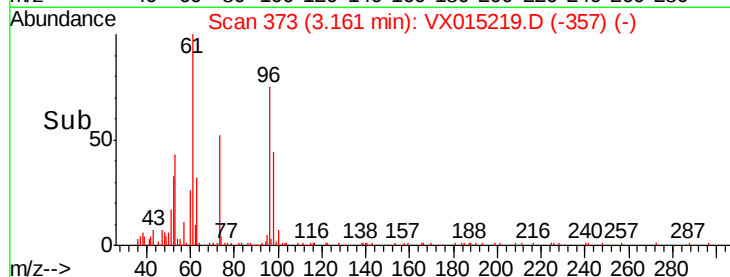
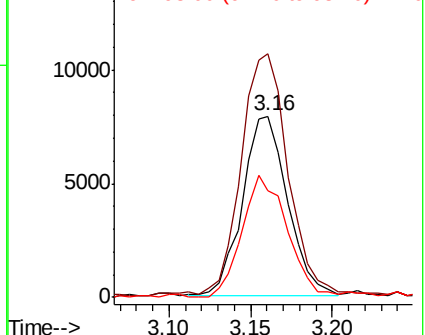
96 100

61 132.7 113.8 170.6

98 59.9 54.6 82.0



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: 5.091 ug/l

RT: 3.84 min Scan# 485

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Tgt Ion: 45 Resp: 51231

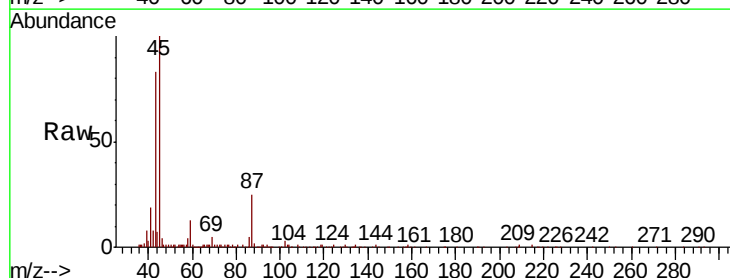
Ion Ratio Lower Upper

45 100

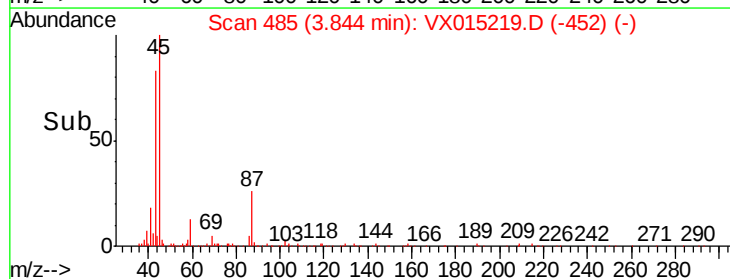
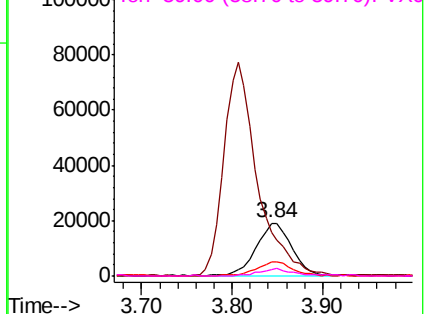
43 82.8 60.3 90.5

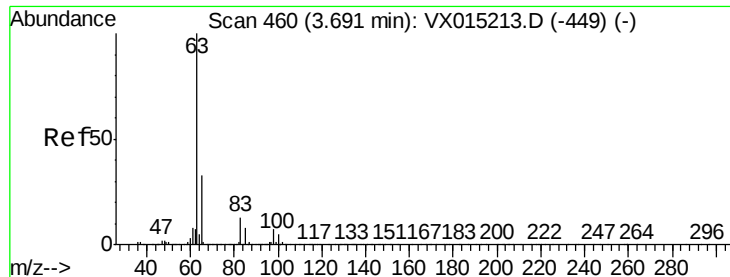
87 25.3 21.0 31.6

59 12.8 9.0 13.4



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: 5.046 ug/l

RT: 3.69 min Scan# 460

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

ClientSampleId :

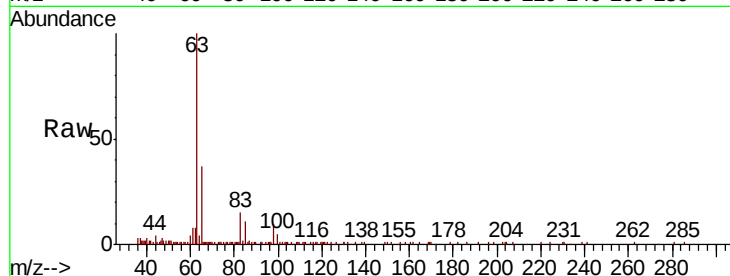
Tot Ion: 63 Resp: 27154

Ion Ratio Lower Upper

63 100

98 10.5 3.6 10.8

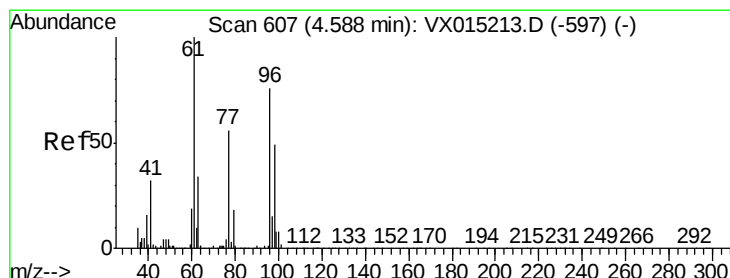
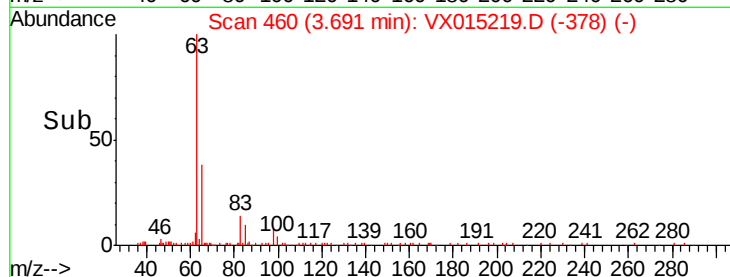
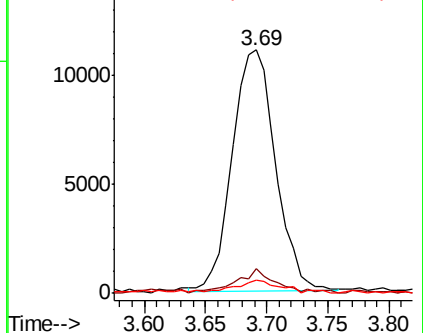
100 5.3 2.6 7.8



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: 4.797 ug/l

RT: 4.59 min Scan# 607

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

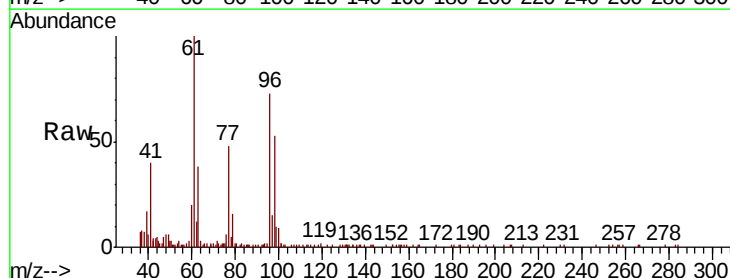
Tgt Ion: 96 Resp: 16104

Ion Ratio Lower Upper

96 100

61 150.0 109.3 163.9

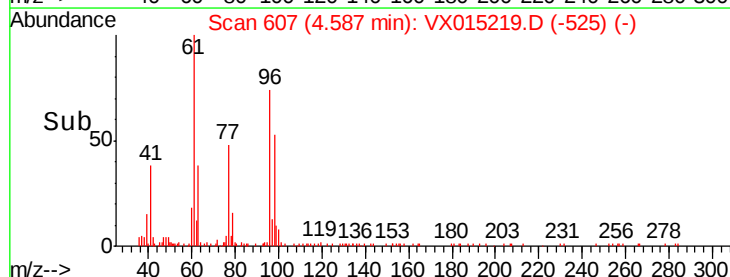
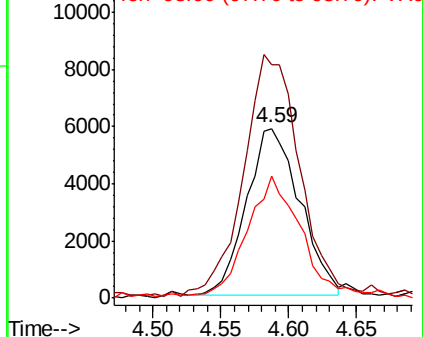
98 72.0 51.3 76.9

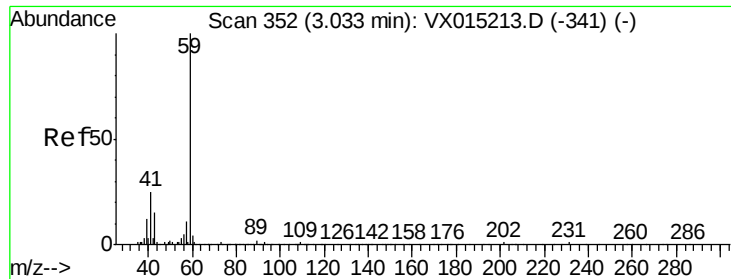


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



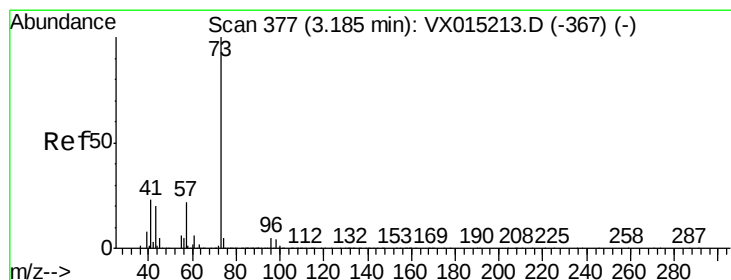
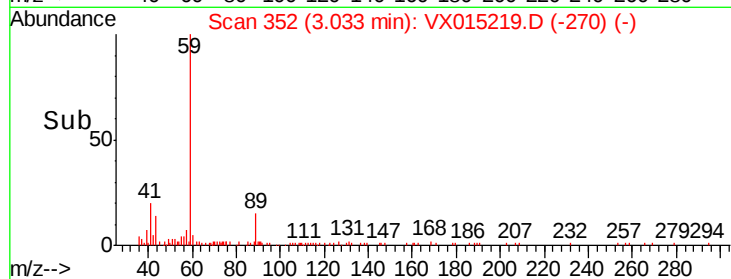
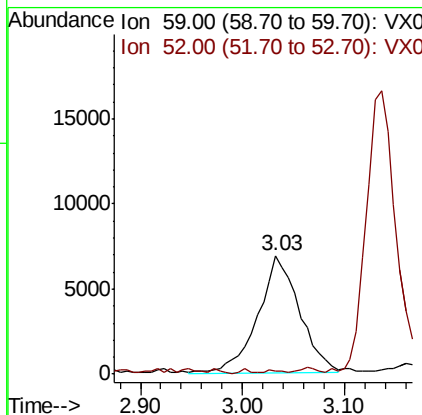
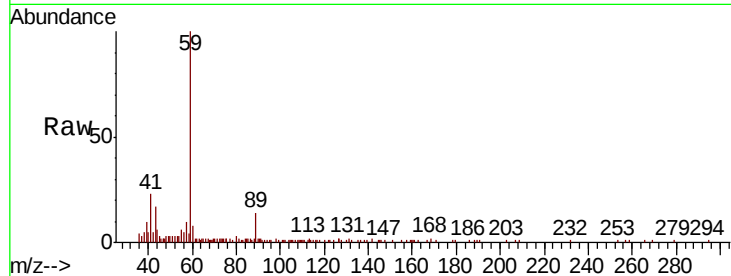


#23

tert-Butyl Alcohol  
 Concen: 30.489 ug/l  
 RT: 3.03 min Scan# 352  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

Instrument :  
 MSVOA\_X  
 ClientSampleId :

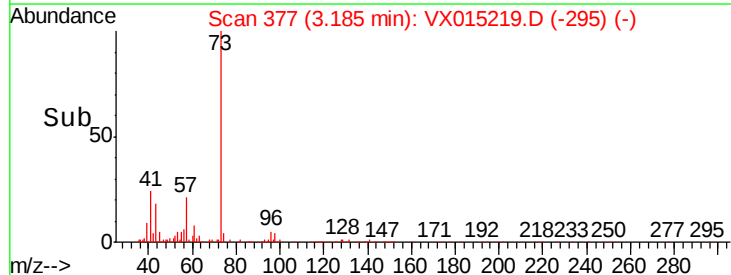
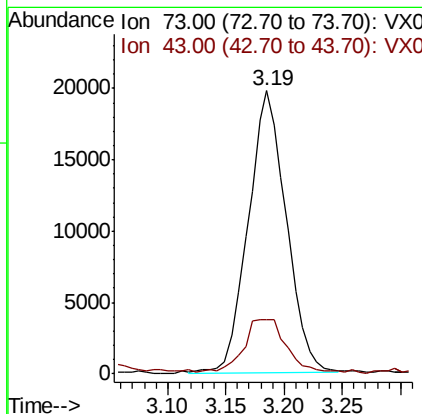
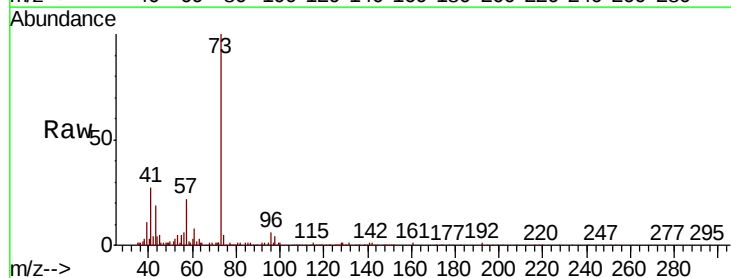
Tot Ion: 59 Resp: 19555  
 Ion Ratio Lower Upper  
 59 100  
 52 0.5 0.2 0.2#

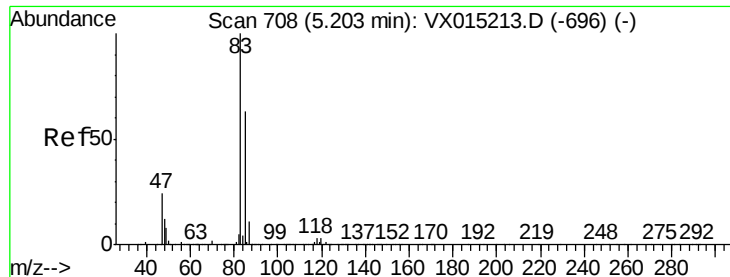


#24

Methyl tert-Butyl Ether  
 Concen: 5.167 ug/l  
 RT: 3.19 min Scan# 377  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

Tgt Ion: 73 Resp: 44797  
 Ion Ratio Lower Upper  
 73 100  
 43 0.2 16.4 24.6#





#25

Chloroform

Concen: 5.281 ug/l

RT: 5.21 min Scan# 709

Delta R.T. 0.01 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

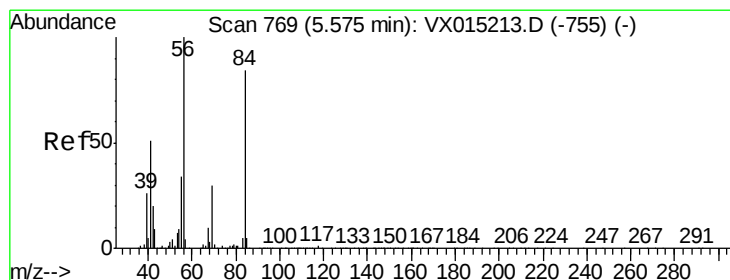
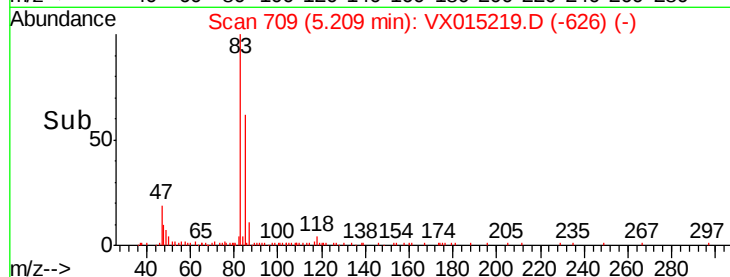
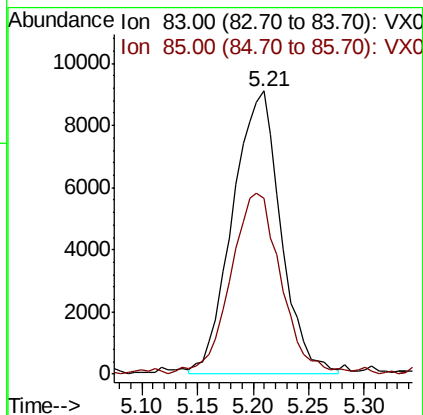
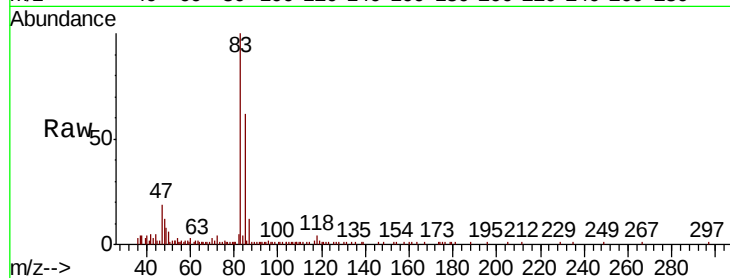
ClientSampleId :

Tot Ion: 83 Resp: 27216

Ion Ratio Lower Upper

83 100

85 60.9 50.7 76.1



#26

Cyclohexane

Concen: 5.069 ug/l

RT: 5.58 min Scan# 769

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

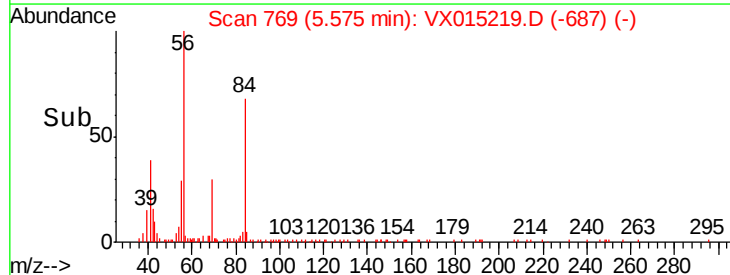
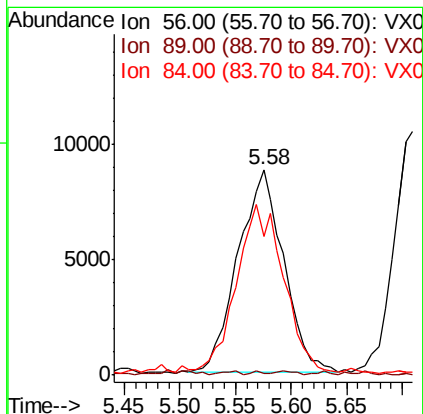
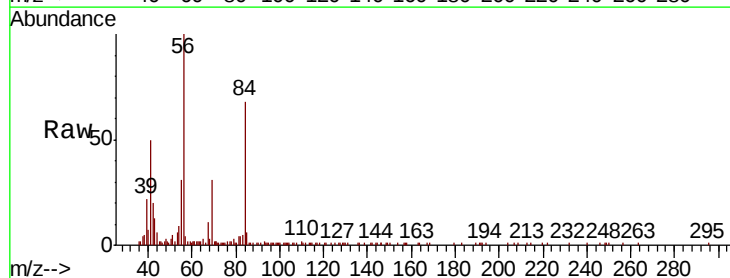
Tgt Ion: 56 Resp: 24991

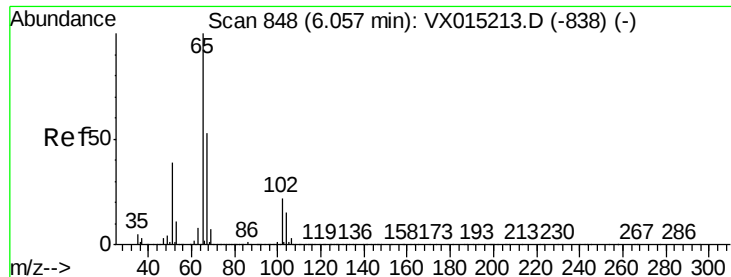
Ion Ratio Lower Upper

56 100

89 0.6 0.1 0.1#

84 85.0 67.3 100.9

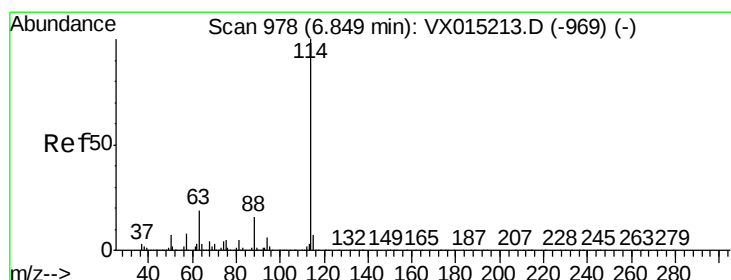
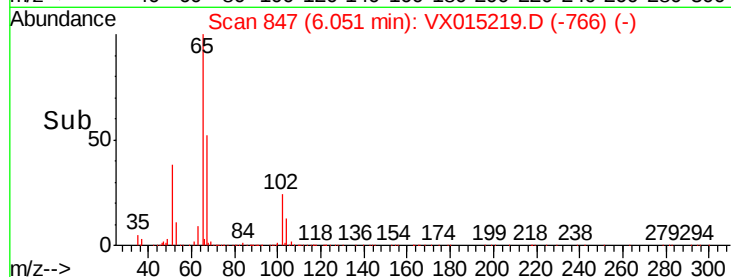
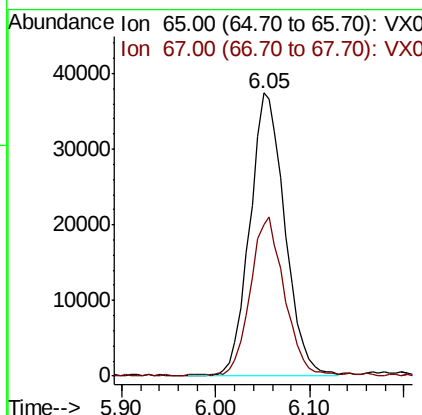
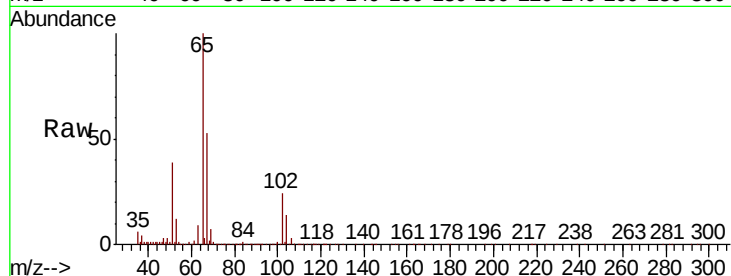




#27  
 1,2-Dichloroethane-d4  
 Concen: 29.208 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. -0.01 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

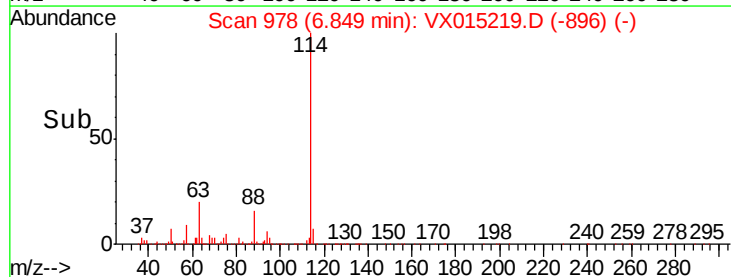
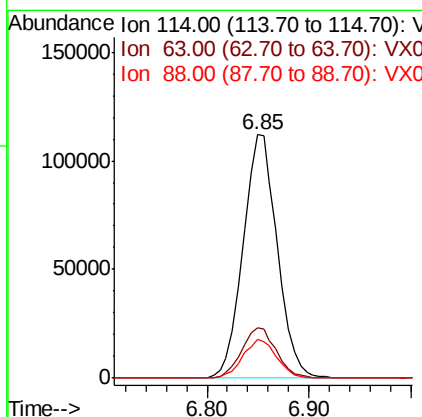
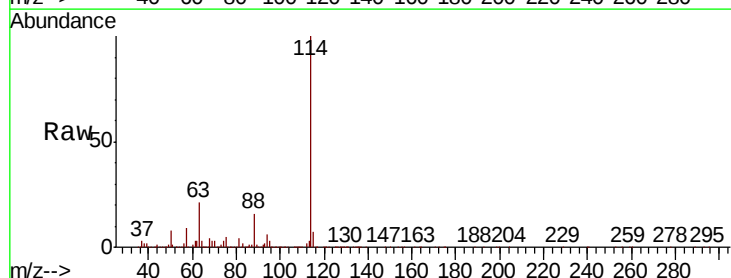
Instrument :  
 MSVOA\_X  
 ClientSampleId :

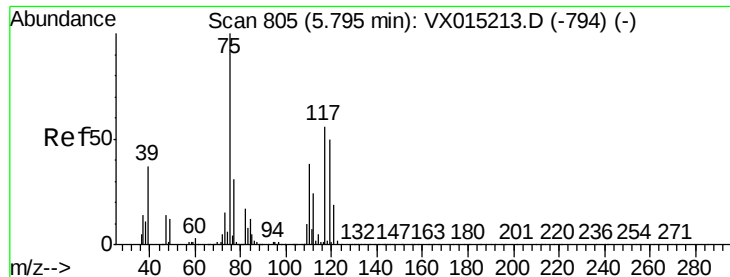
Tot Ion: 65 Resp: 97137  
 Ion Ratio Lower Upper  
 65 100  
 67 54.0 42.2 63.4



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

Tgt Ion: 114 Resp: 260282  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 15.8 23.6  
 88 15.6 12.4 18.6

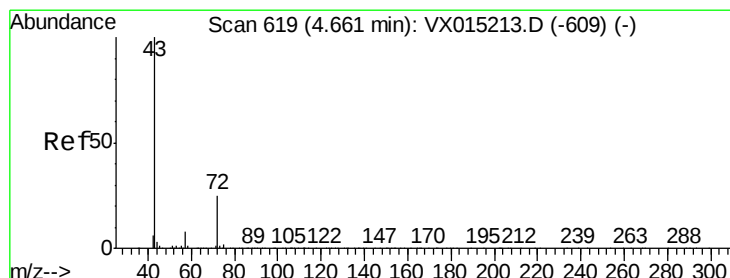
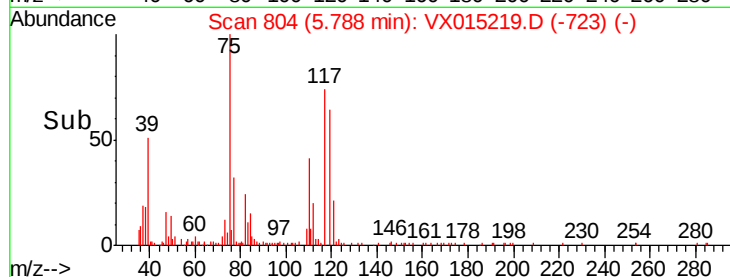
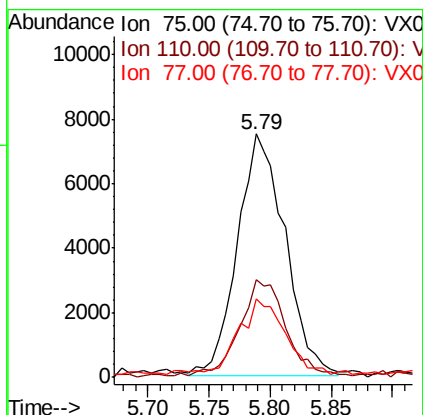
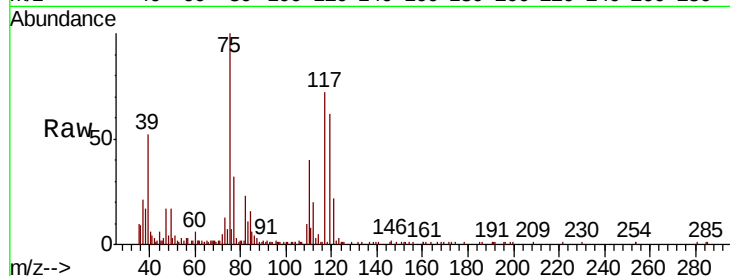




#29  
 1,1-Dichloropropene  
 Concen: 5.230 ug/l  
 RT: 5.79 min Scan# 804  
 Delta R.T. -0.01 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

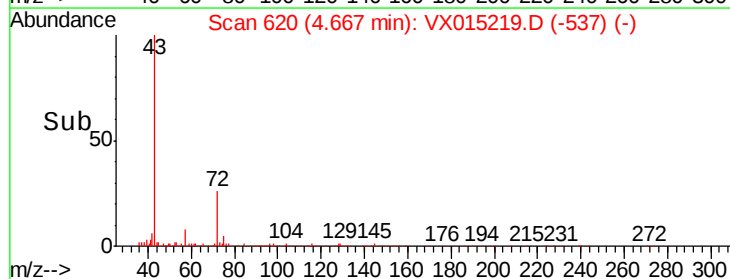
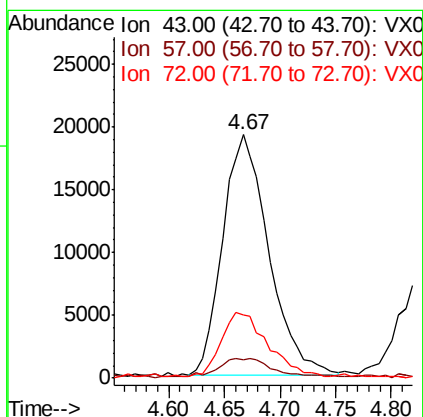
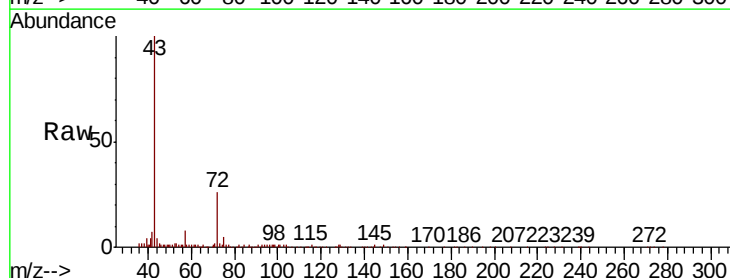
Instrument :  
 MSVOA\_X  
 ClientSampleId :

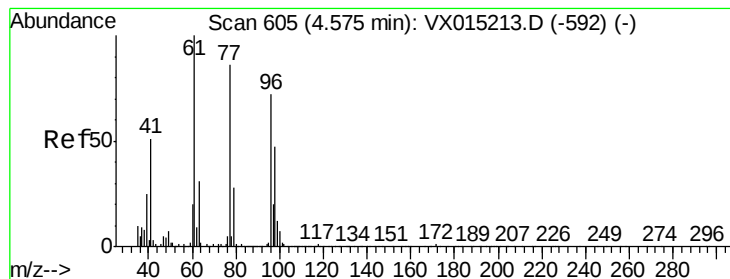
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 38.9  | 0.0   | 74.2  |
| 77      | 28.4  | 0.0   | 61.6  |



#30  
 2-Butanone  
 Concen: 26.231 ug/l  
 RT: 4.67 min Scan# 620  
 Delta R.T. 0.01 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 7.1   | 6.0   | 9.0   |
| 72      | 26.7  | 20.2  | 30.4  |





#31

2,2-Dichloropropane

Concen: 4.653 ug/l

RT: 4.58 min Scan# 605

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

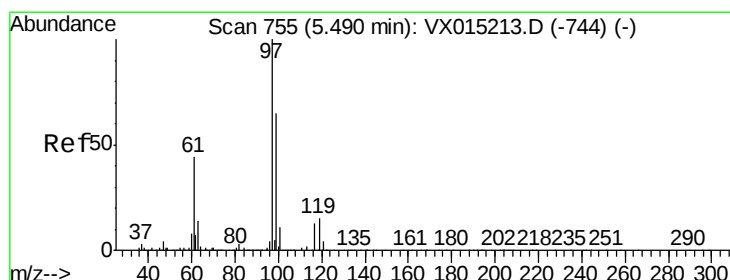
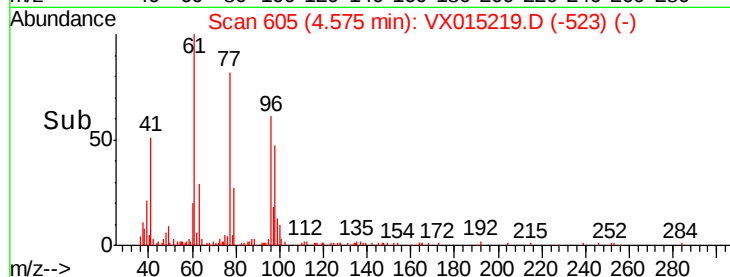
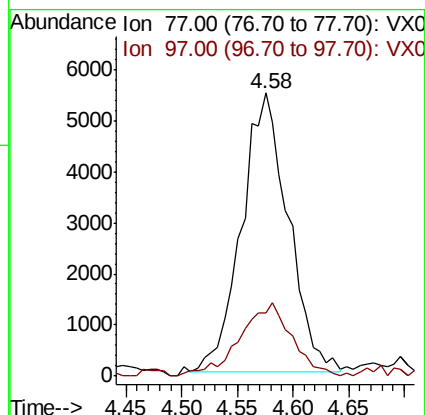
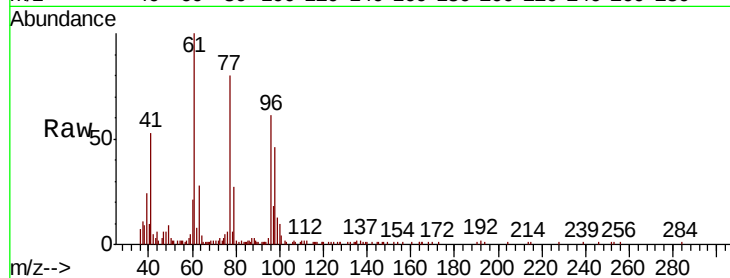
ClientSampleId :

Tot Ion: 77 Resp: 15923

Ion Ratio Lower Upper

77 100

97 26.7 19.4 29.2



#32

1,1,1-Trichloroethane

Concen: 5.295 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

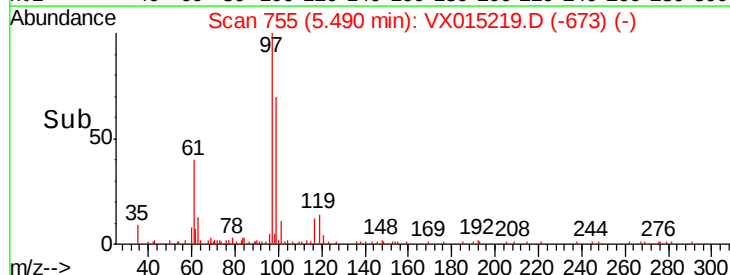
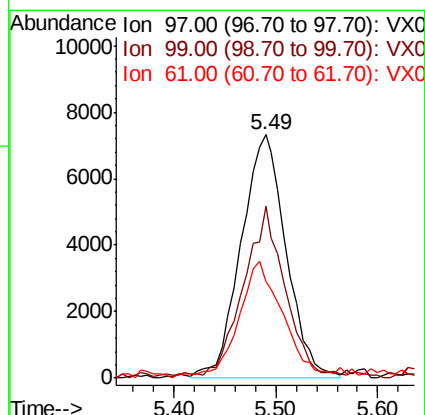
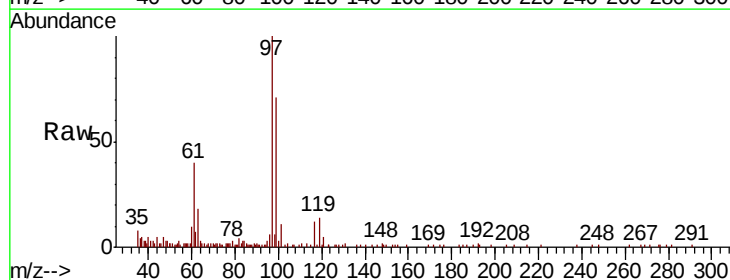
Tgt Ion: 97 Resp: 22179

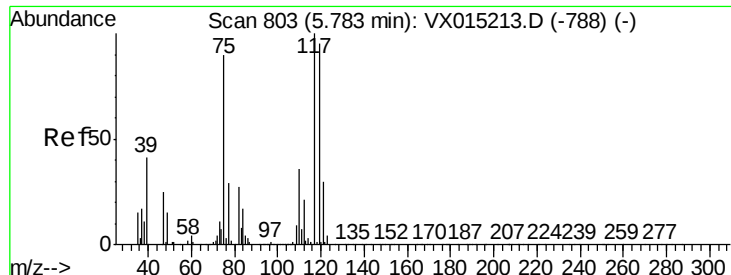
Ion Ratio Lower Upper

97 100

99 63.6 51.8 77.6

61 46.0 36.1 54.1





#33

Carbon Tetrachloride

Concen: 5.280 ug/l

RT: 5.78 min Scan# 802

Delta R.T. -0.01 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

ClientSampleId :

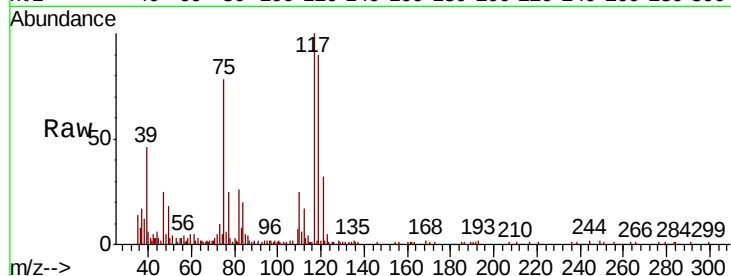
Tot Ion:117 Resp: 19201

Ion Ratio Lower Upper

117 100

119 90.2 76.2 114.2

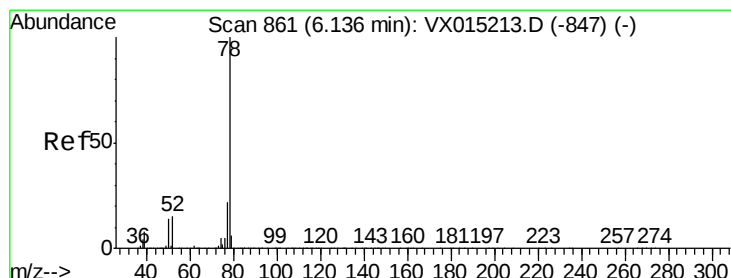
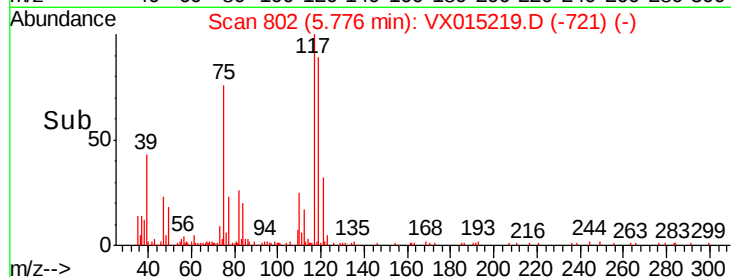
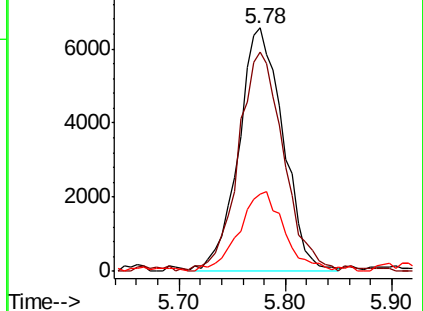
121 31.8 24.2 36.4



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: 5.407 ug/l

RT: 6.14 min Scan# 861

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

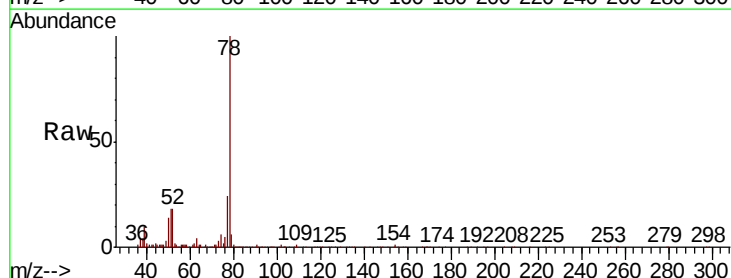
Tgt Ion: 78 Resp: 64409

Ion Ratio Lower Upper

78 100

77 23.8 17.9 26.9

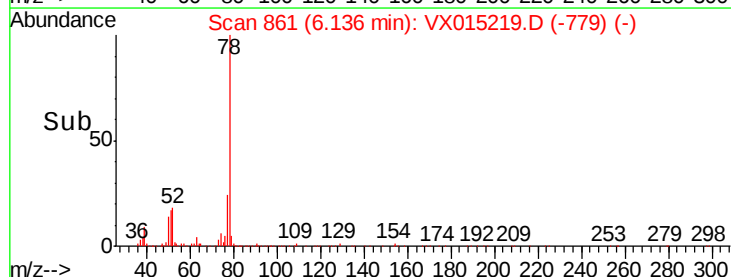
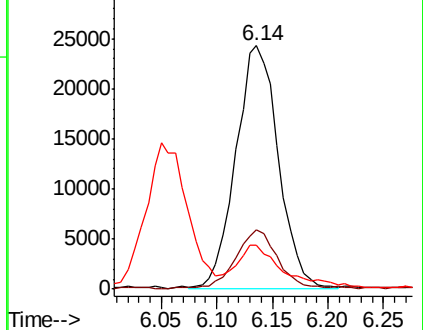
51 16.4 13.4 20.0

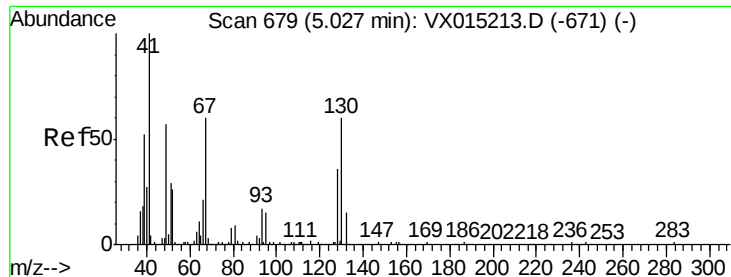


Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

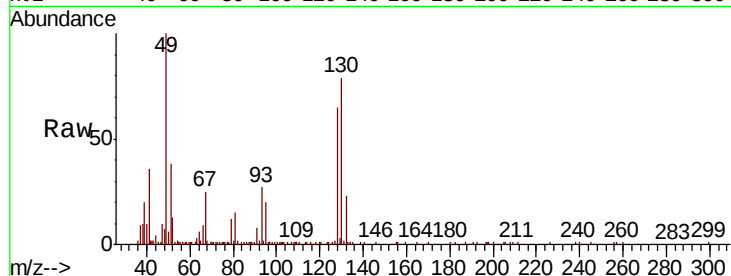




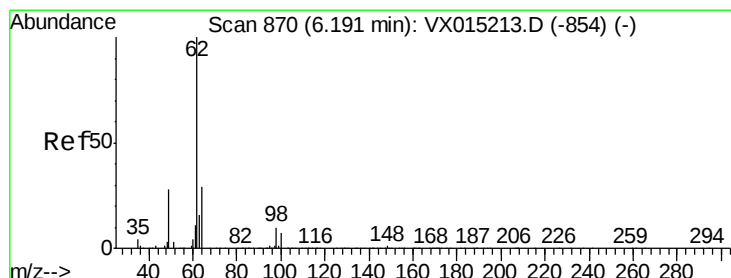
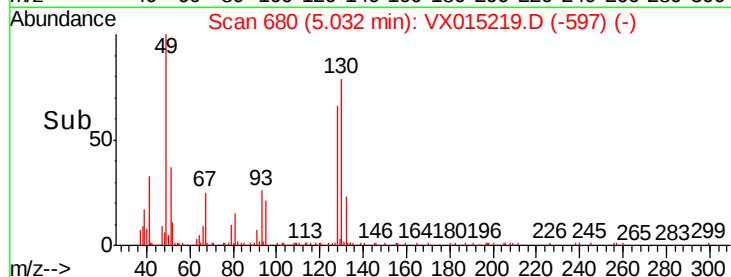
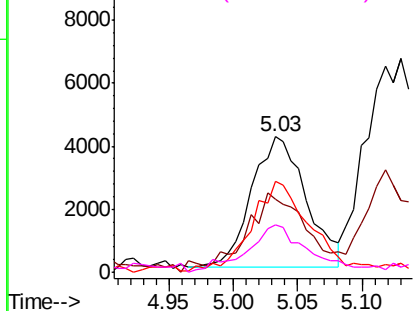
#35  
Methacrylonitrile  
Concen: 5.270 ug/l  
RT: 5.03 min Scan# 680  
Delta R.T. 0.01 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Instrument :  
MSVOA\_X  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 12144 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 47.3  | 25.9  | 77.6  |
| 67       | 68.9  | 29.4  | 88.2  |
| 52       | 33.1  | 12.8  | 38.3  |

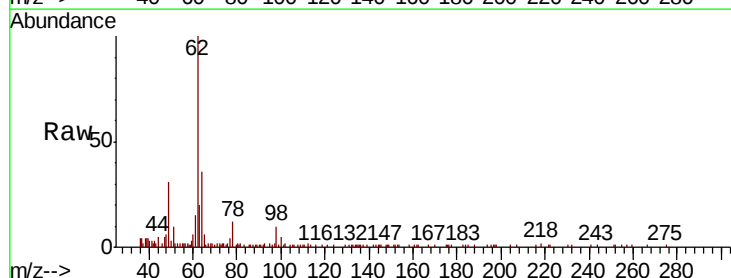


Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0  
Ion 67.00 (66.70 to 67.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0

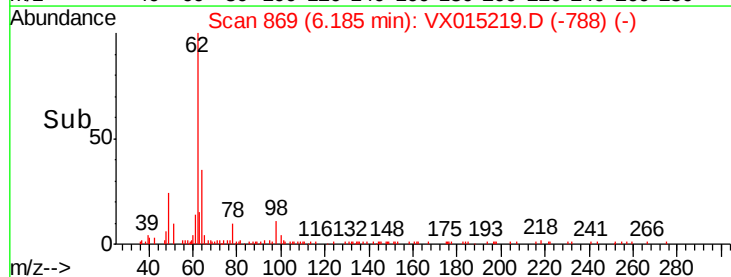
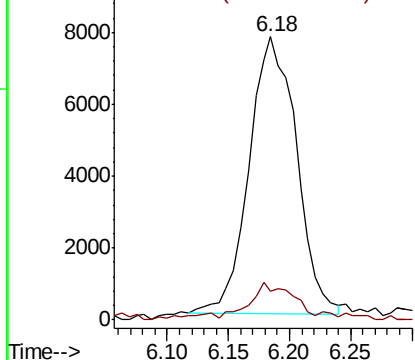


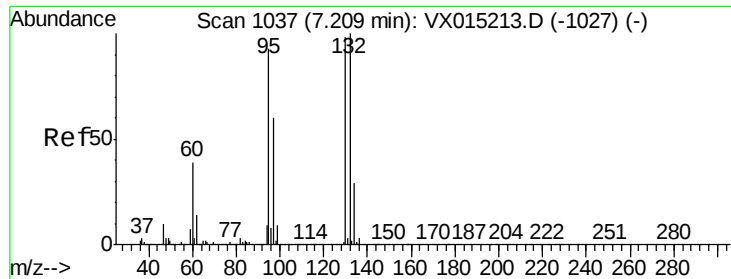
#36  
1,2-Dichloroethane  
Concen: 5.268 ug/l  
RT: 6.18 min Scan# 869  
Delta R.T. -0.01 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 20844 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 5.6   | 8.6   | 13.0# |



Abundance Ion 62.00 (61.70 to 62.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0

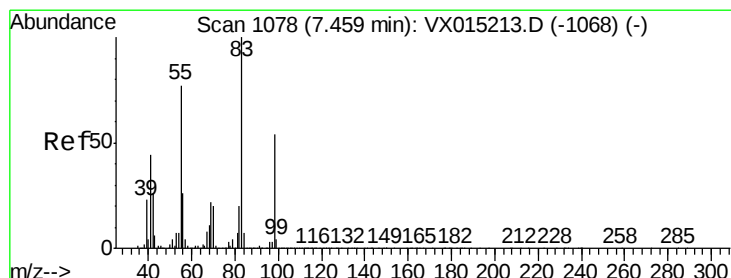
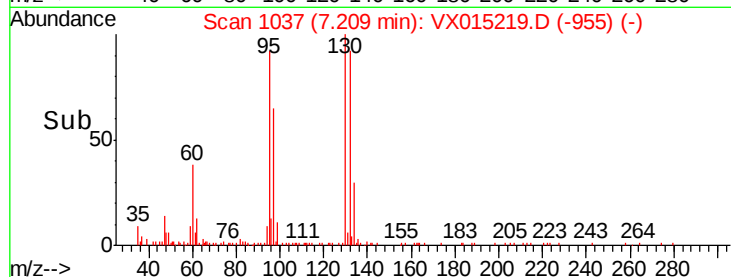
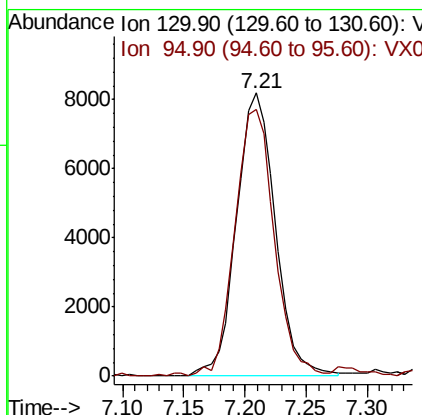
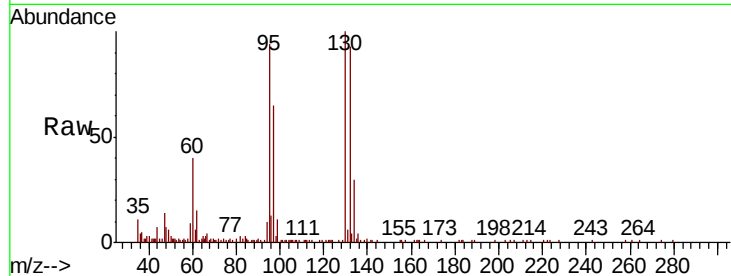




#37  
 Trichloroethene  
 Concen: 5.443 ug/l  
 RT: 7.21 min Scan# 1037  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

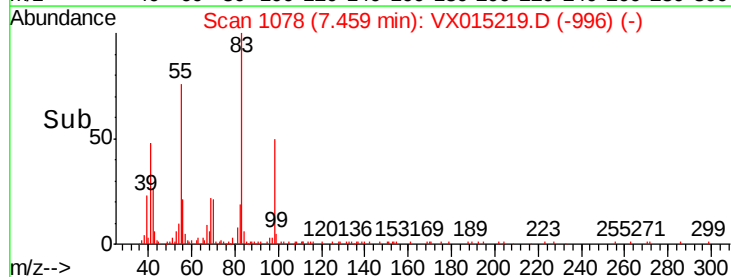
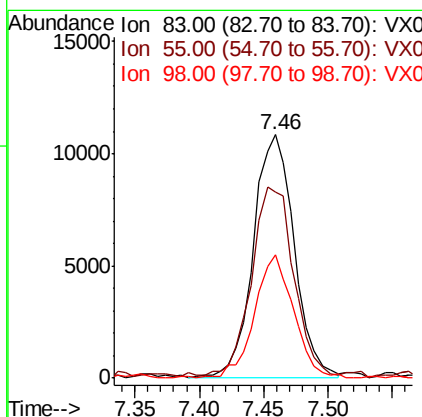
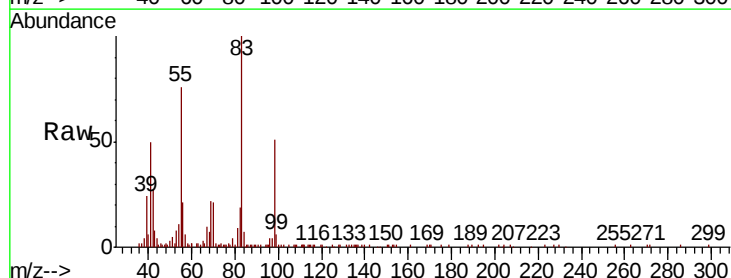
Instrument :  
 MSVOA\_X  
 ClientSampleId :

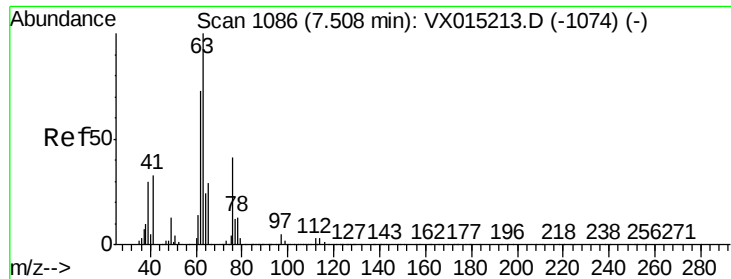
Tot Ion:130 Resp: 18113  
 Ion Ratio Lower Upper  
 130 100  
 95 92.6 75.4 113.2



#38  
 Methylcyclohexane  
 Concen: 5.211 ug/l  
 RT: 7.46 min Scan# 1078  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

Tgt Ion: 83 Resp: 23883  
 Ion Ratio Lower Upper  
 83 100  
 55 81.1 39.9 119.6  
 98 48.2 24.8 74.3





#39

1,2-Dichloropropane

Concen: 5.385 ug/l

RT: 7.51 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

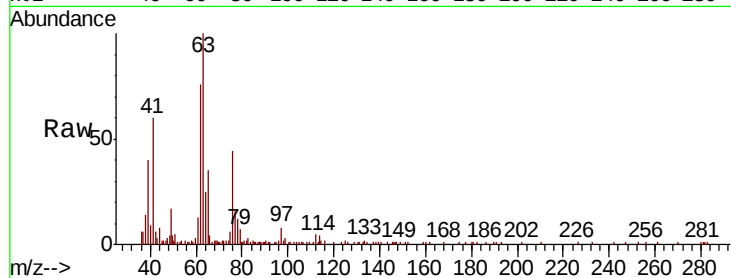
ClientSampleId :

Tot Ion: 63 Resp: 16506

Ion Ratio Lower Upper

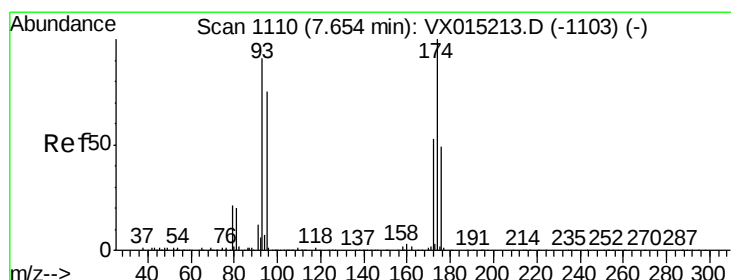
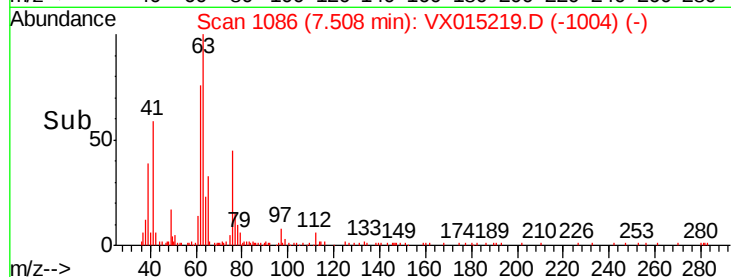
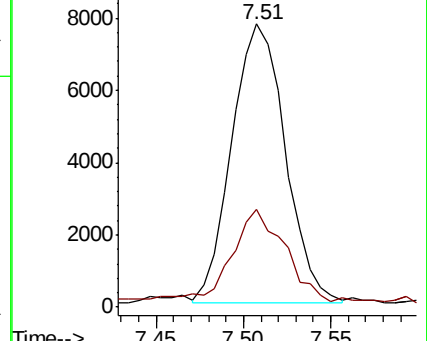
63 100

65 32.1 23.8 35.8



Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0



#40

Dibromomethane

Concen: 5.337 ug/l

RT: 7.66 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

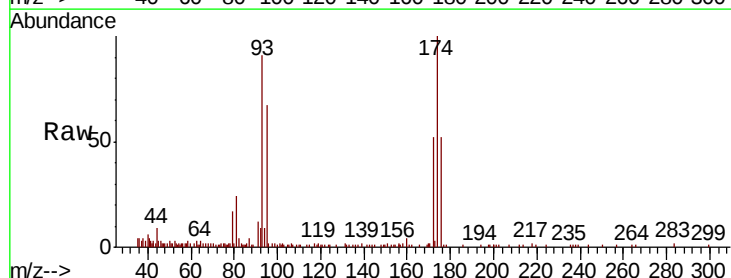
Tgt Ion: 93 Resp: 10631

Ion Ratio Lower Upper

93 100

95 87.1 0.0 159.6

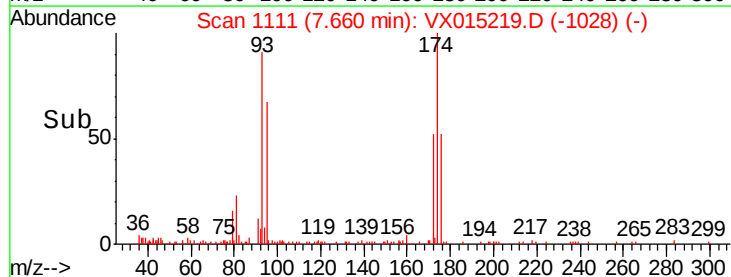
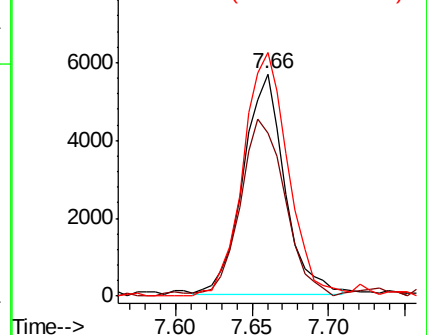
174 120.3 0.0 225.2

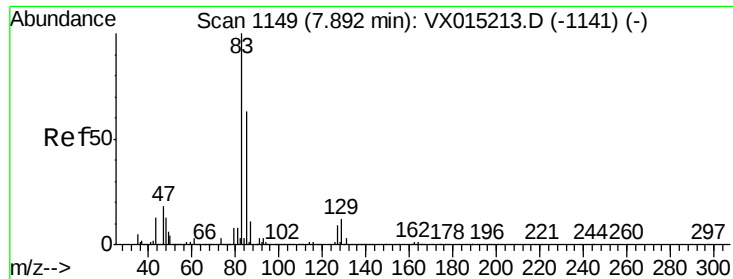


Abundance Ion 93.00 (92.70 to 93.70): VX0

Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 5.053 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

ClientSampleId :

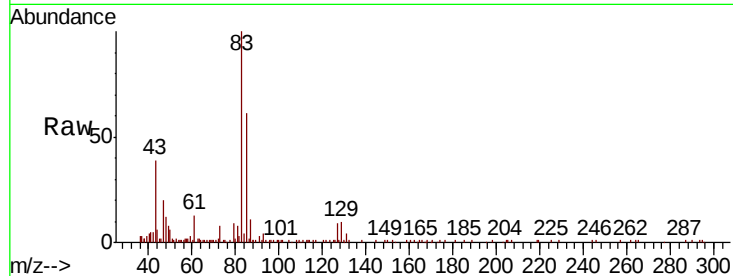
Tot Ion: 83 Resp: 19229

Ion Ratio Lower Upper

83 100

85 60.1 50.0 75.0

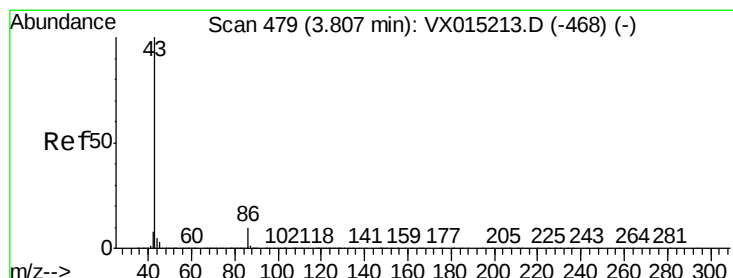
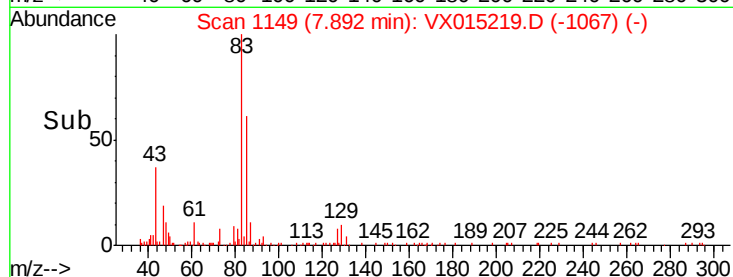
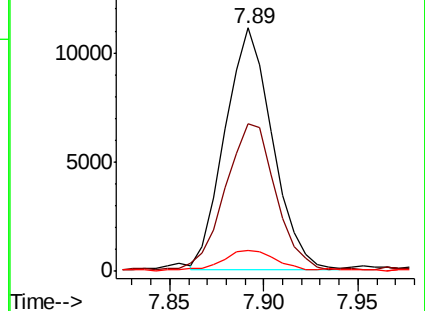
127 9.4 7.1 10.7



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: 24.210 ug/l

RT: 3.81 min Scan# 479

Delta R.T. -0.00 min

Lab File: VX015219.D

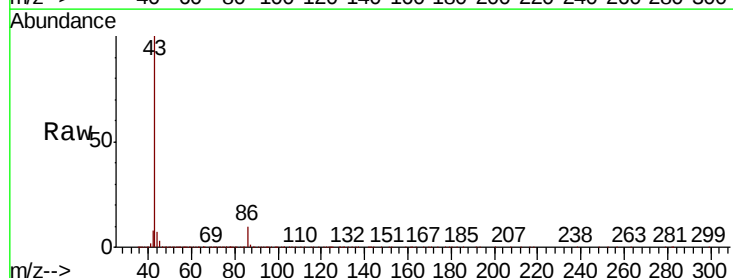
Acq: 11 Mar 2020 23:41

Tgt Ion: 43 Resp: 198508

Ion Ratio Lower Upper

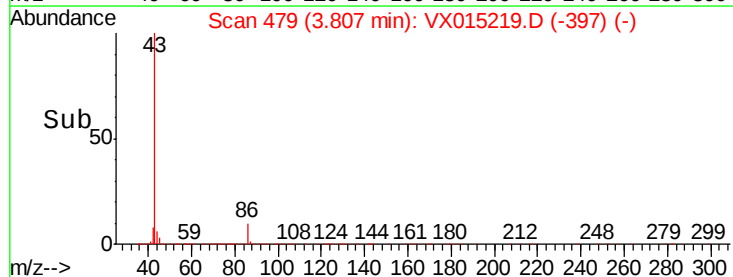
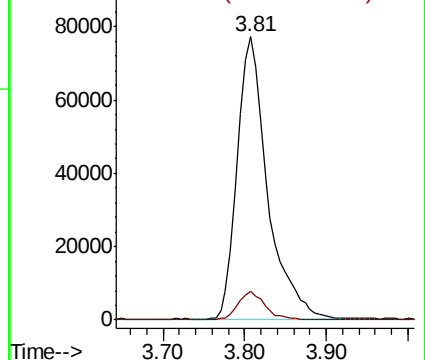
43 100

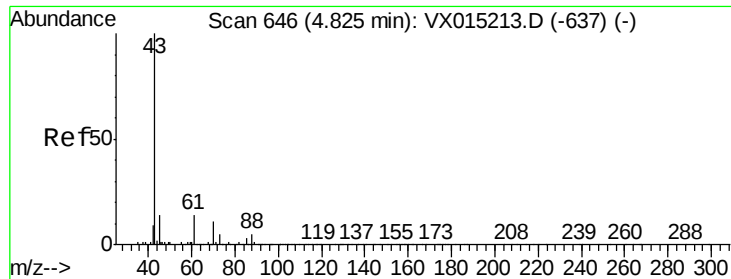
86 8.8 7.4 11.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

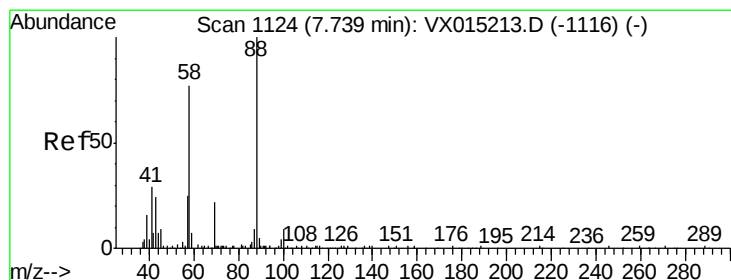
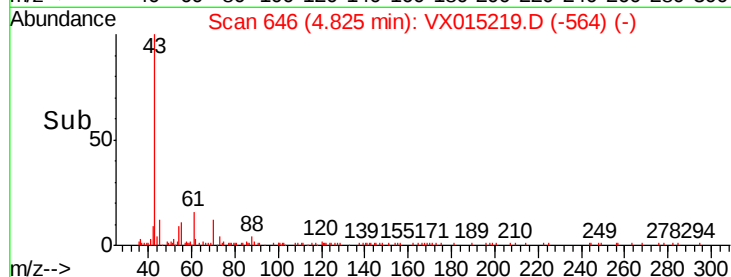
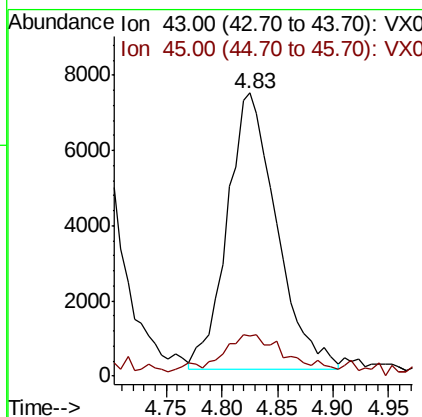
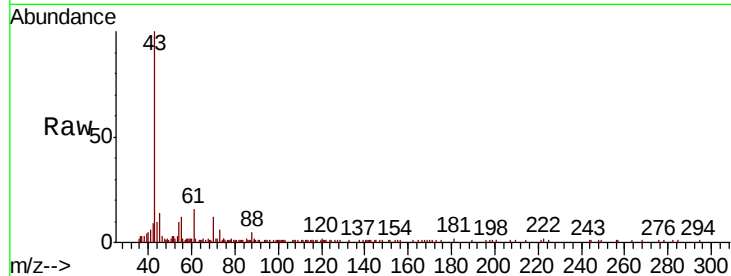




#43  
Ethyl Acetate  
Concen: 5.403 ug/l  
RT: 4.83 min Scan# 646  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

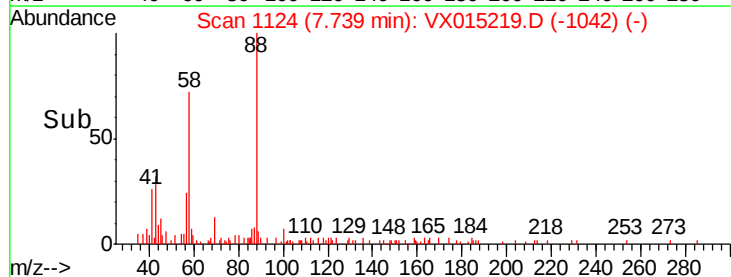
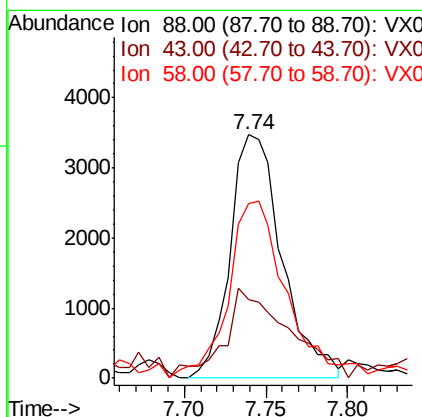
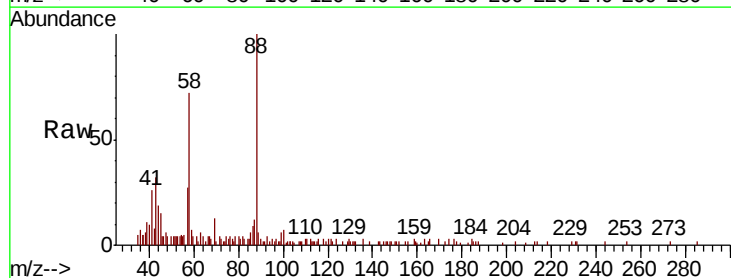
Instrument :  
MSVOA\_X  
ClientSampleId :

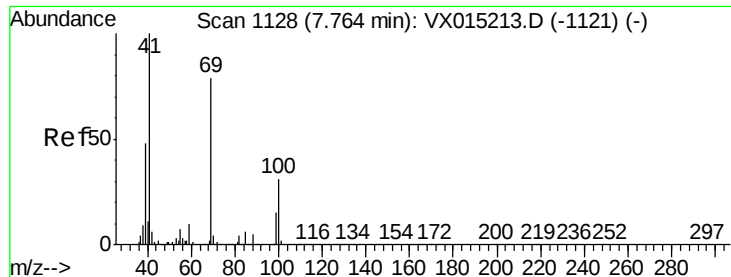
Tot Ion: 43 Resp: 22695  
Ion Ratio Lower Upper  
43 100  
45 9.9 0.1 0.1#



#45  
1,4-Dioxane  
Concen: 107.392 ug/l  
RT: 7.74 min Scan# 1124  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion: 88 Resp: 7667  
Ion Ratio Lower Upper  
88 100  
43 44.5 24.8 37.2#  
58 79.2 59.7 89.5

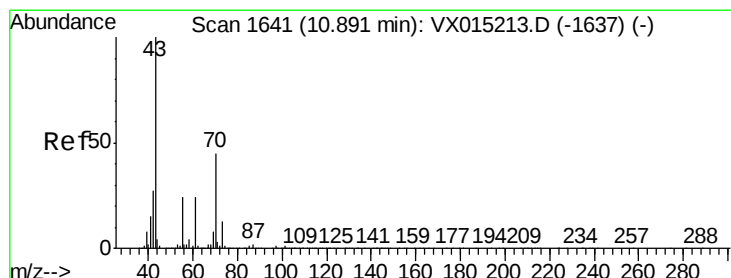
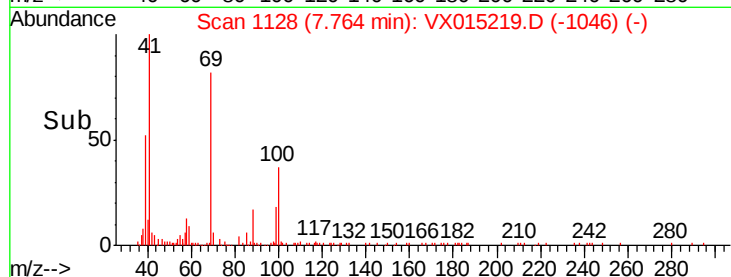
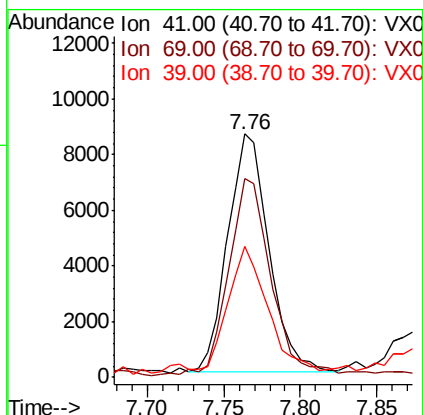
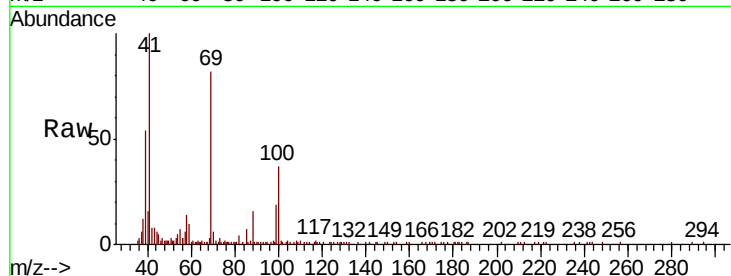




#46  
Methyl methacrylate  
Concen: 4.764 ug/l  
RT: 7.76 min Scan# 1128  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

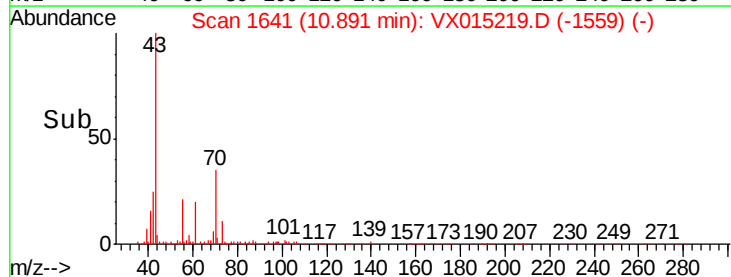
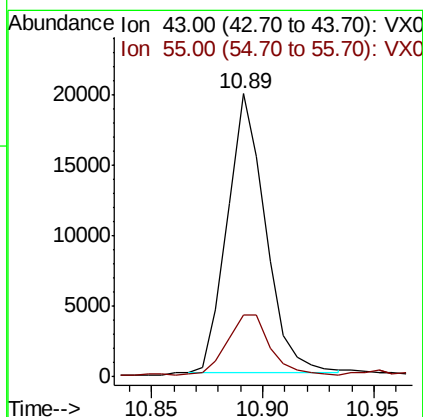
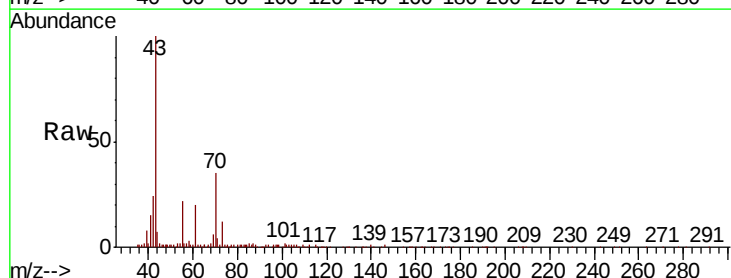
Instrument :  
MSVOA\_X  
ClientSampleId :

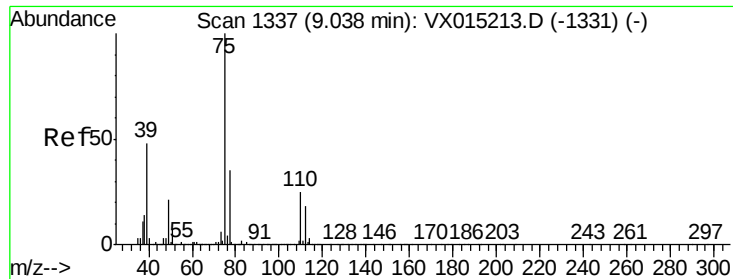
Tot Ion: 41 Resp: 15975  
Ion Ratio Lower Upper  
41 100  
69 82.0 39.6 118.7  
39 51.4 23.5 70.6



#47  
n-ethyl acetate  
Concen: 4.092 ug/l  
RT: 10.89 min Scan# 1641  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion: 43 Resp: 23490  
Ion Ratio Lower Upper  
43 100  
55 25.7 20.2 30.2

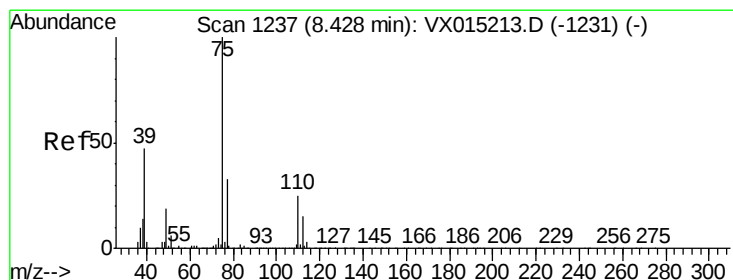
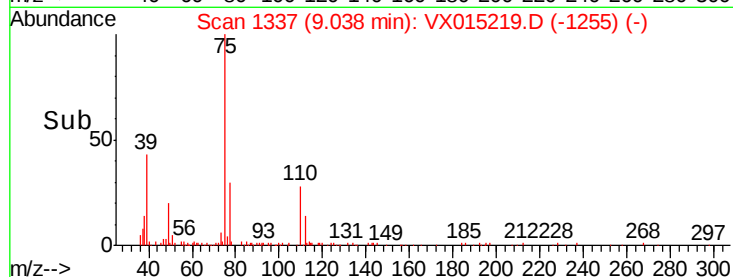
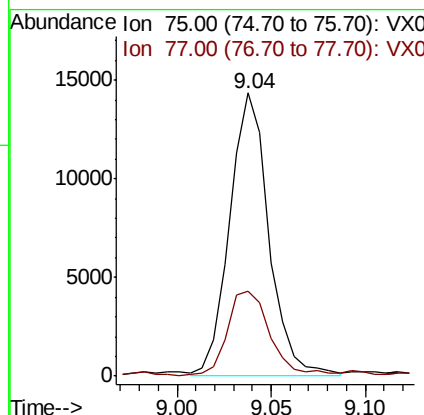
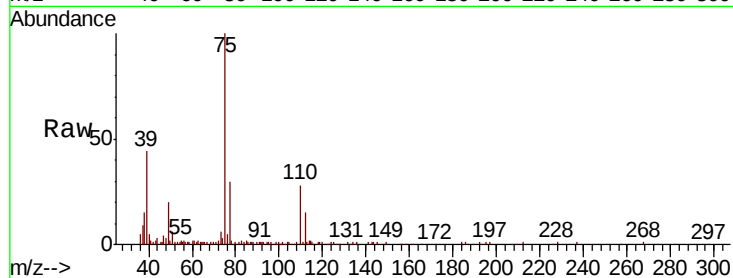




#48  
 t-1,3-Dichloropropene  
 Concen: 5.026 ug/l  
 RT: 9.04 min Scan# 1337  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

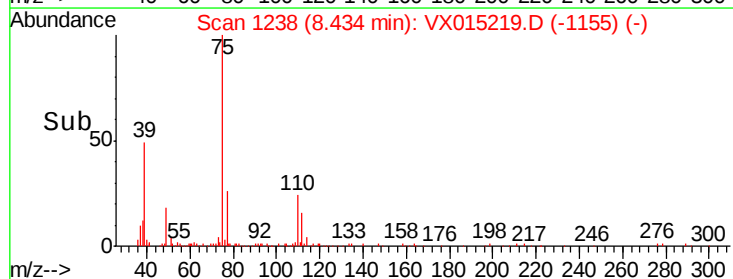
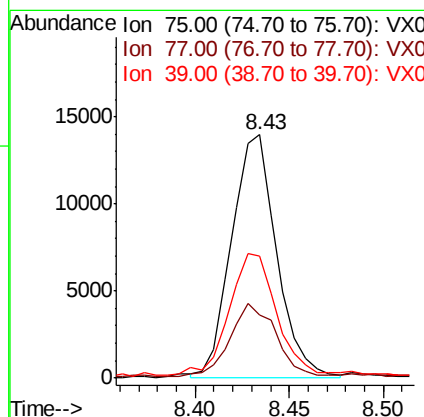
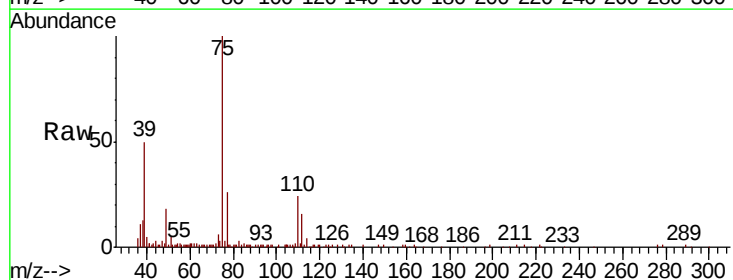
Instrument :  
 MSVOA\_X  
 ClientSampleId :

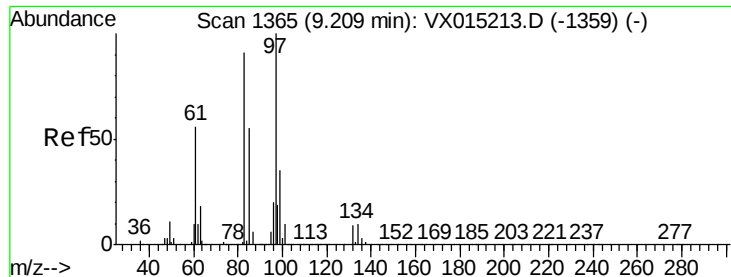
Tot Ion: 75 Resp: 20767  
 Ion Ratio Lower Upper  
 75 100  
 77 29.4 27.7 41.5



#49  
 cis-1,3-Dichloropropene  
 Concen: 4.935 ug/l  
 RT: 8.43 min Scan# 1238  
 Delta R.T. 0.01 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

Tgt Ion: 75 Resp: 23111  
 Ion Ratio Lower Upper  
 75 100  
 77 25.1 26.5 39.7#  
 39 48.4 37.4 56.2

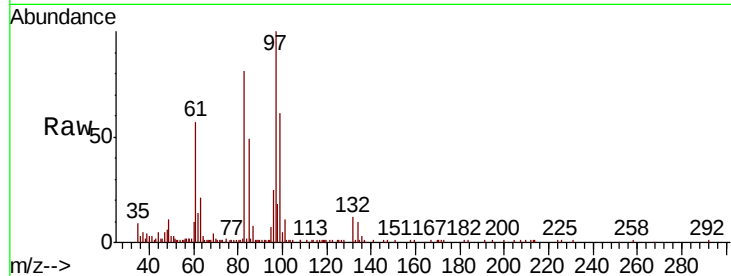




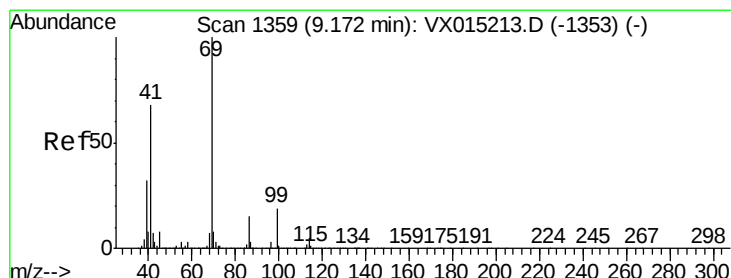
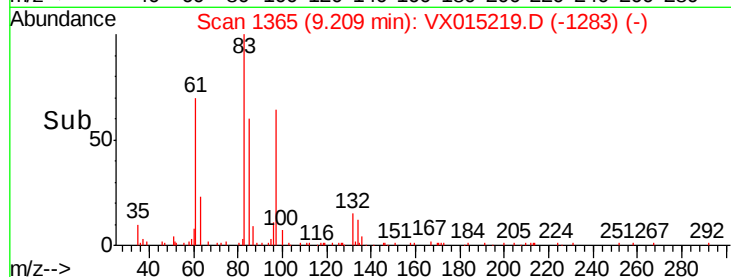
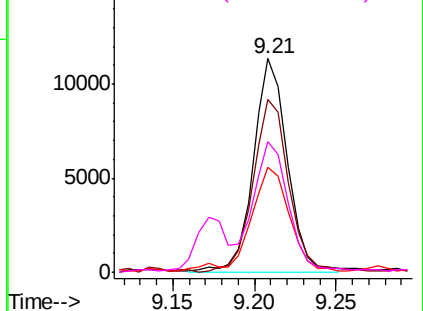
#50  
 1,1,2-Trichloroethane  
 Concen: 5.559 ug/l  
 RT: 9.21 min Scan# 1365  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 97 Resp: 16488  
 Ion Ratio Lower Upper  
 97 100  
 83 80.4 72.4 108.6  
 85 49.0 46.6 69.8  
 99 60.0 51.9 77.9

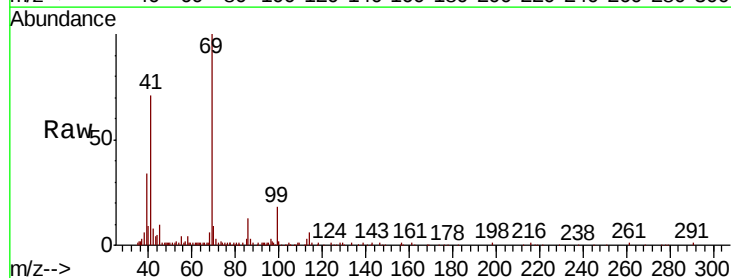


Abundance Ion 97.00 (96.70 to 97.70): VX0  
 Ion 82.95 (82.65 to 83.65): VX0  
 Ion 84.95 (84.65 to 85.65): VX0  
 Ion 98.95 (98.65 to 99.65): VX0

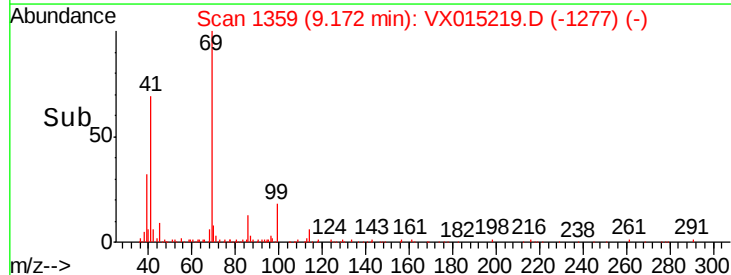
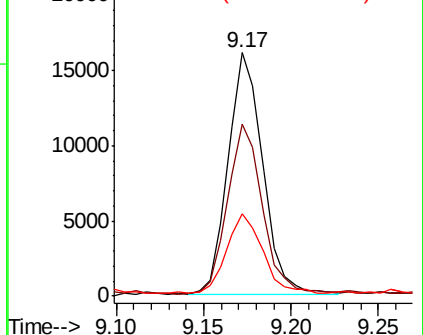


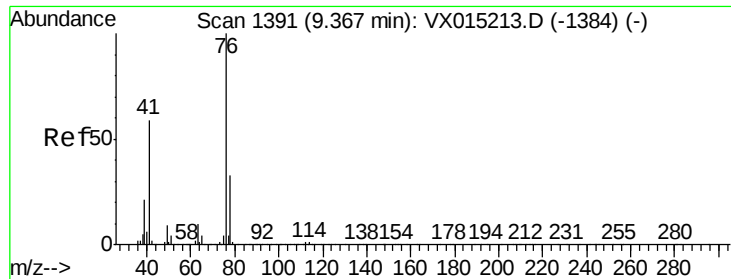
#51  
 Ethyl methacrylate  
 Concen: 4.920 ug/l  
 RT: 9.17 min Scan# 1359  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

Tgt Ion: 69 Resp: 22416  
 Ion Ratio Lower Upper  
 69 100  
 41 69.7 33.8 101.3  
 39 33.0 16.1 48.2



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: 5.517 ug/l

RT: 9.37 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

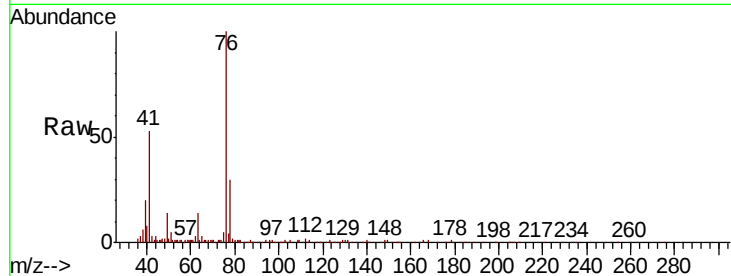
ClientSampleId :

Tot Ion: 76 Resp: 27706

Ion Ratio Lower Upper

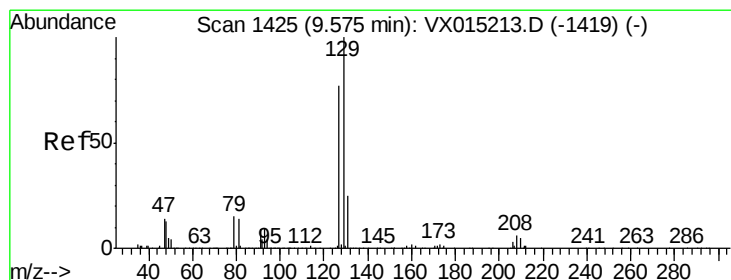
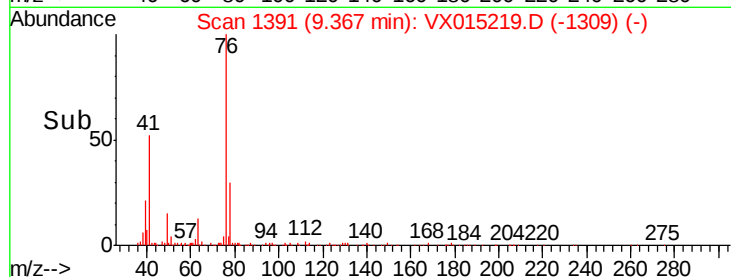
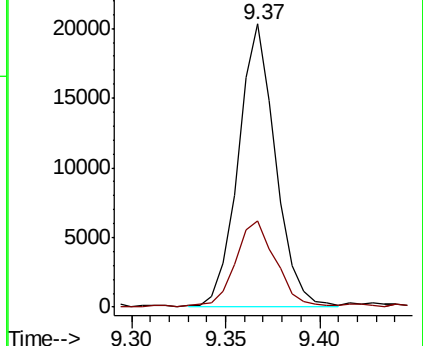
76 100

78 32.7 0.0 65.0



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0



#53

Dibromochloromethane

Concen: 4.851 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. -0.00 min

Lab File: VX015219.D

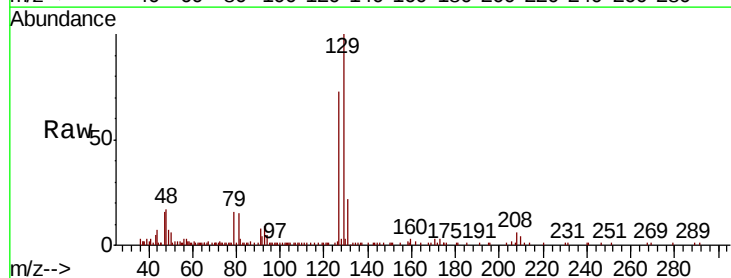
Acq: 11 Mar 2020 23:41

Tgt Ion:129 Resp: 15171

Ion Ratio Lower Upper

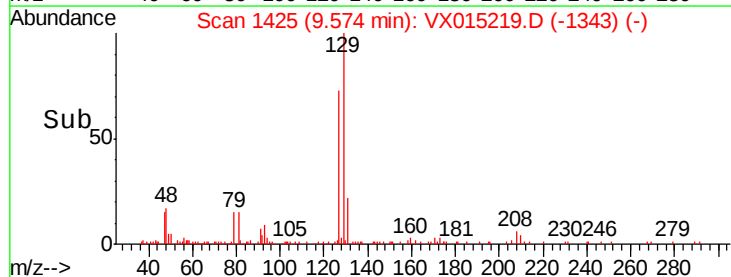
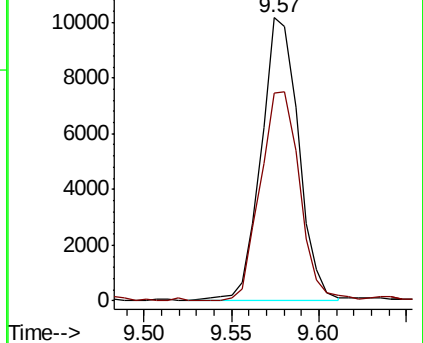
129 100

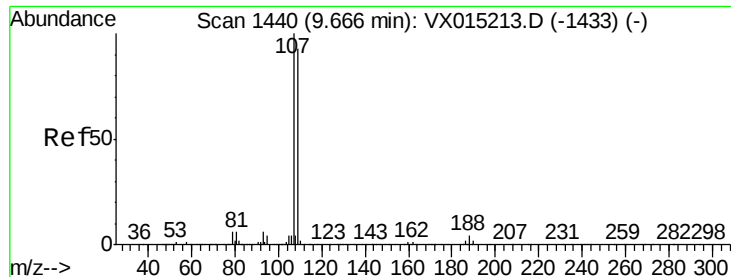
127 77.5 38.6 115.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#54

1,2-Dibromoethane

Concen: 5.599 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

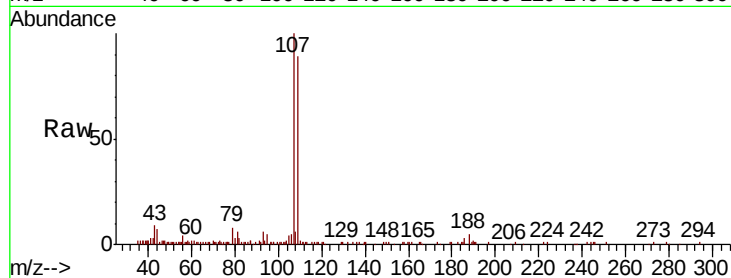
ClientSampled :

Tot Ion:107 Resp: 17234

Ion Ratio Lower Upper

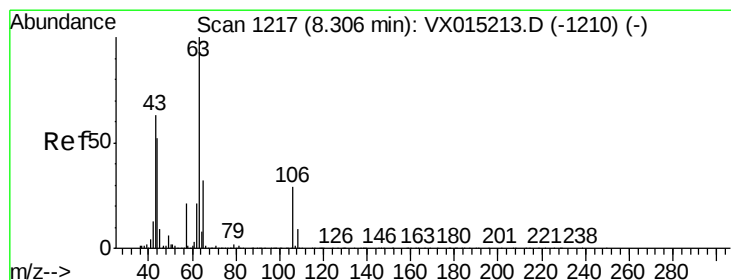
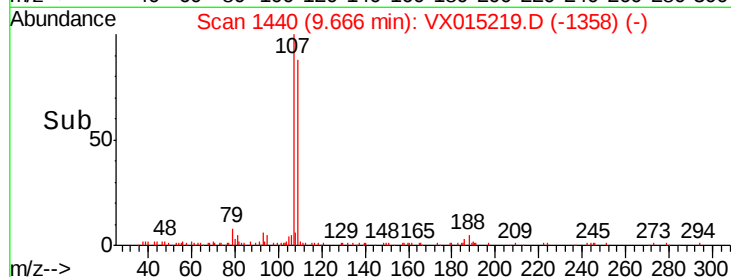
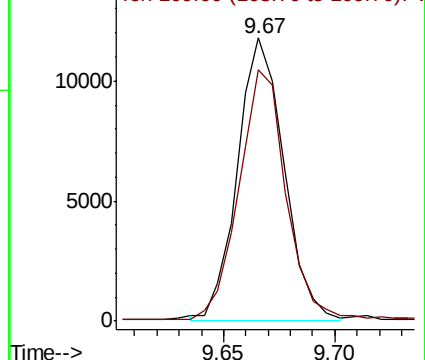
107 100

109 88.6 75.4 113.2



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: 23.564 ug/l

RT: 8.31 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

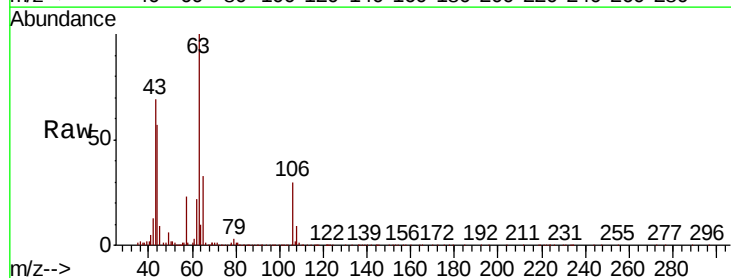
Tgt Ion: 63 Resp: 55044

Ion Ratio Lower Upper

63 100

65 34.8 25.9 38.9

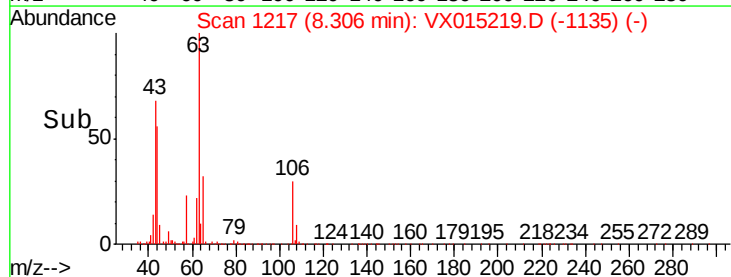
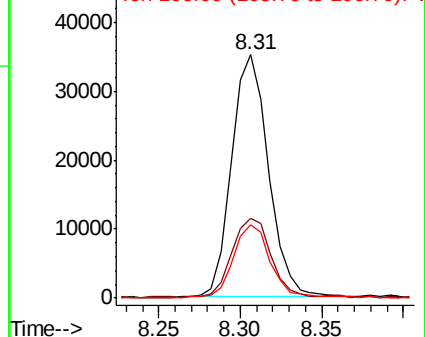
106 29.5 23.1 34.7

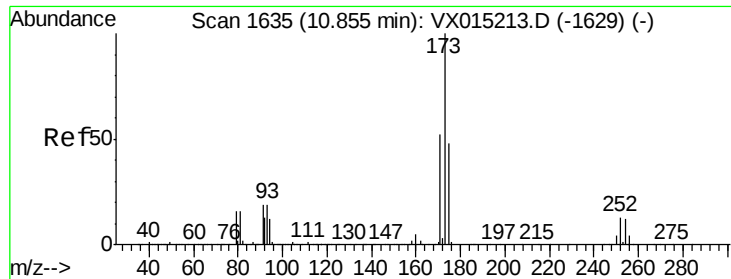


Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0

Ion 106.00 (105.70 to 106.70): V





#56

Bromoform

Concen: 4.792 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

ClientSampled :

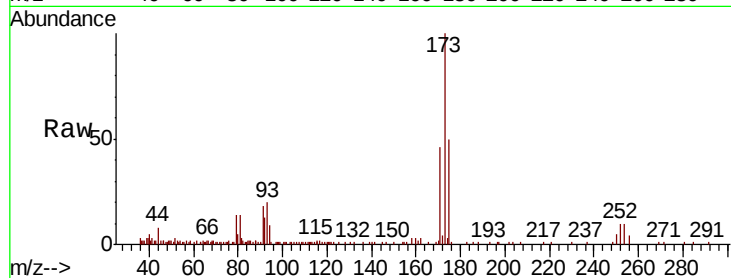
Tot Ion:173 Resp: 11393

Ion Ratio Lower Upper

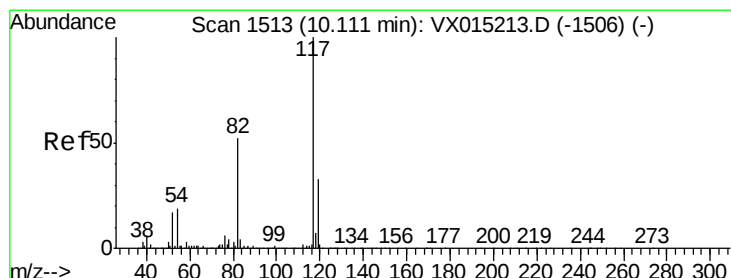
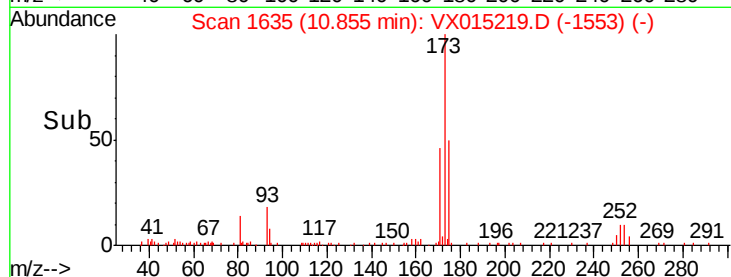
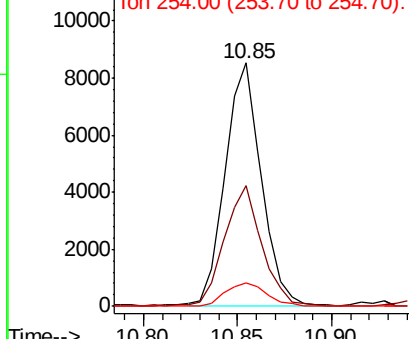
173 100

175 50.9 40.0 60.0

254 10.9 9.1 13.7



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

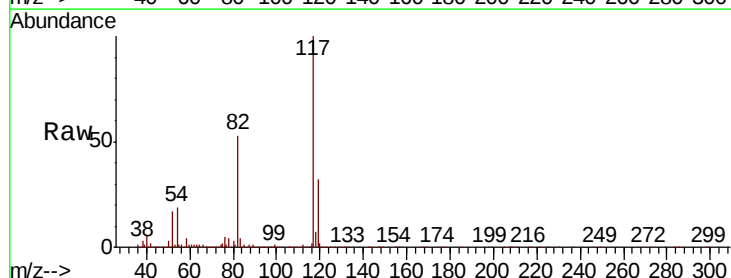
Tgt Ion:117 Resp: 240413

Ion Ratio Lower Upper

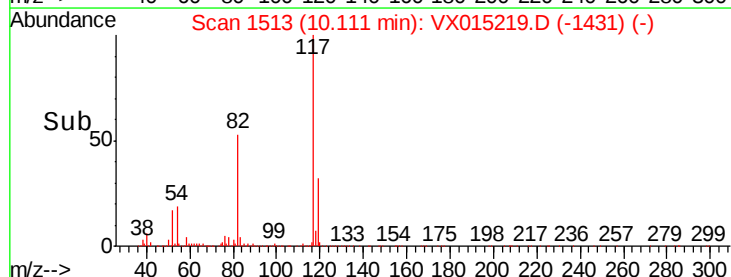
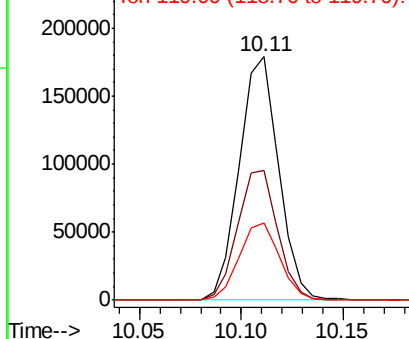
117 100

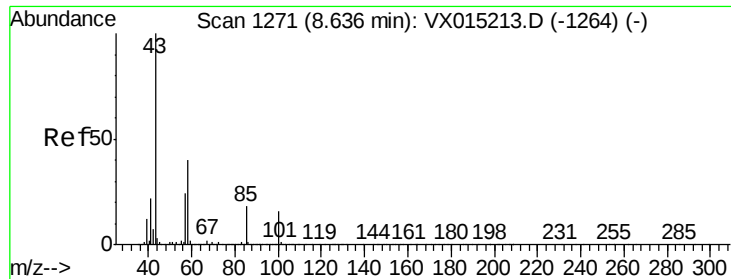
82 54.1 43.6 65.4

119 32.2 25.9 38.9



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

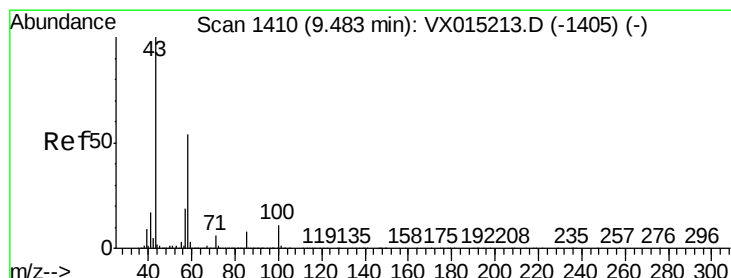
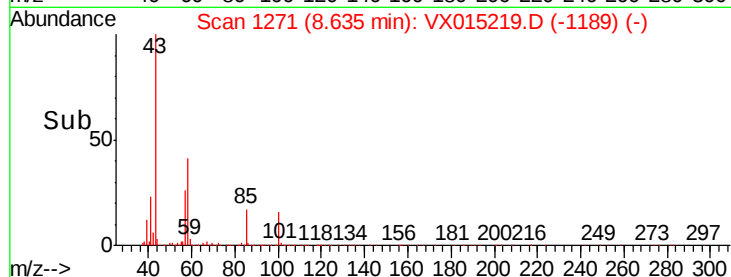
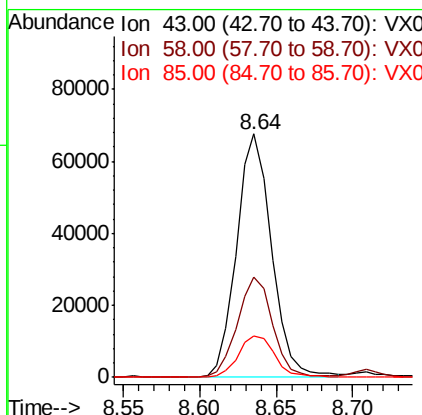
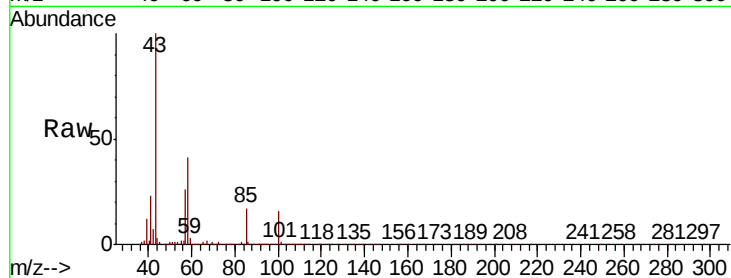




#58  
 4-Methyl-2-Pentanone  
 Concen: 25.659 ug/l  
 RT: 8.64 min Scan# 1271  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

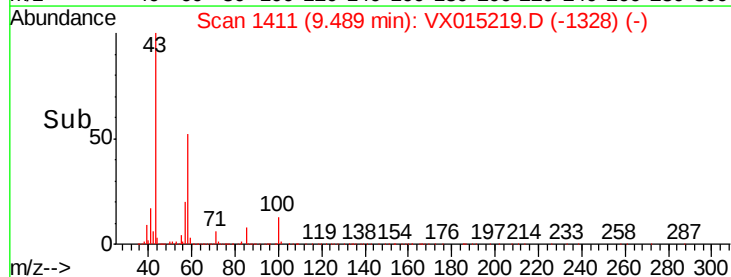
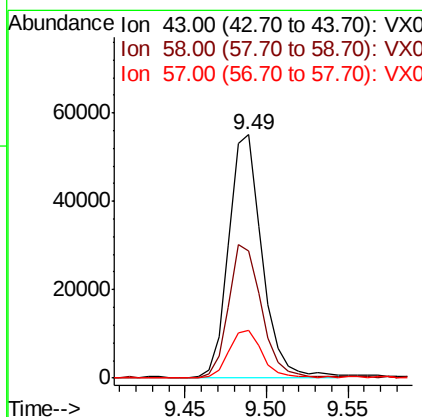
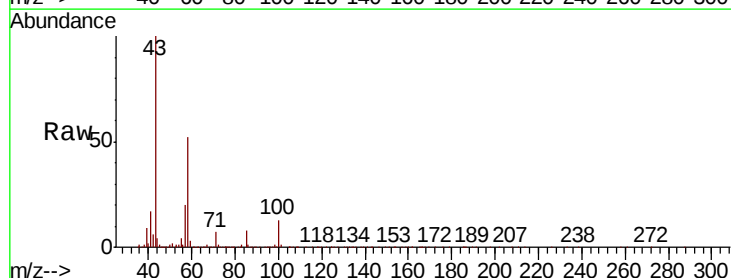
Instrument :  
 MSVOA\_X  
 ClientSampleId :

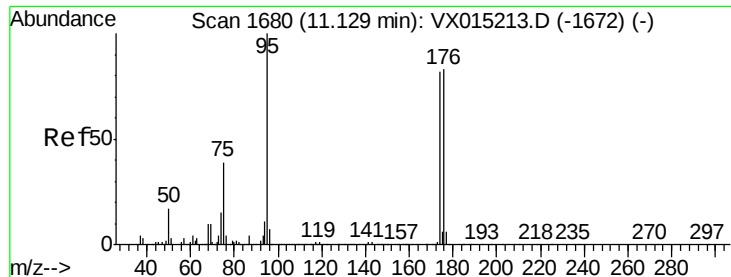
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 41.4  | 31.8  | 47.8  |
| 85      | 18.1  | 13.8  | 20.6  |



#59  
 2-Hexanone  
 Concen: 25.163 ug/l  
 RT: 9.49 min Scan# 1411  
 Delta R.T. 0.01 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 53.2  | 44.2  | 66.4  |
| 57      | 19.3  | 15.0  | 22.4  |

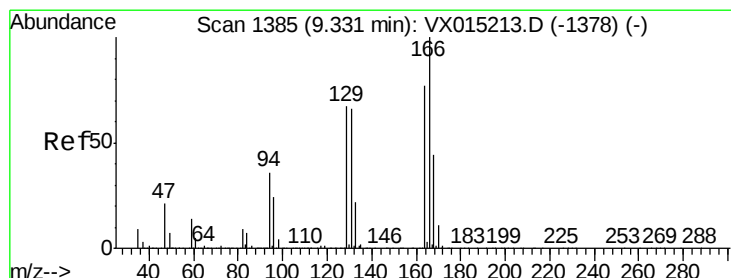
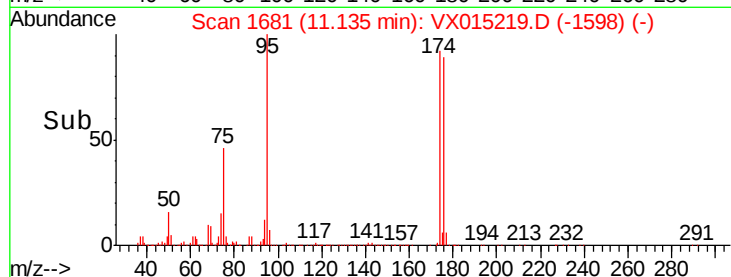
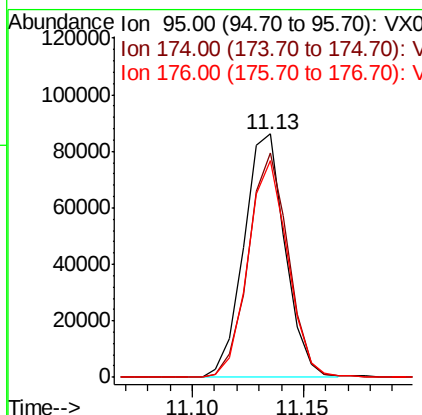
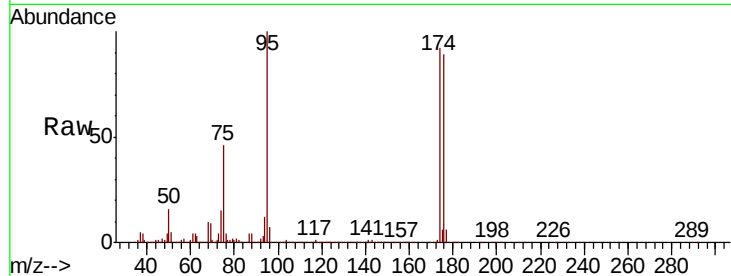




#60  
4-Bromofluorobenzene  
Concen: 29.504 ug/l  
RT: 11.13 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

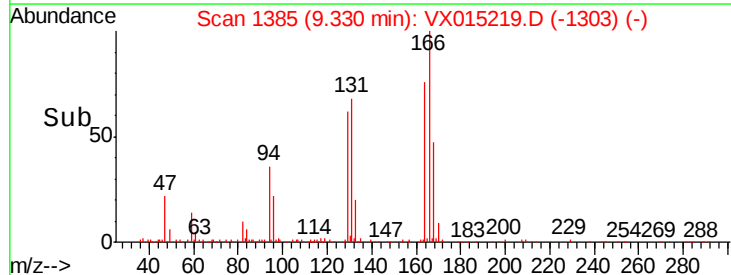
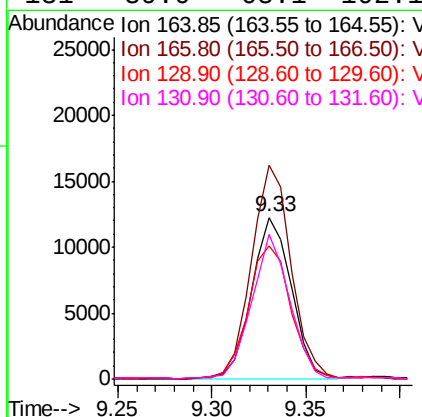
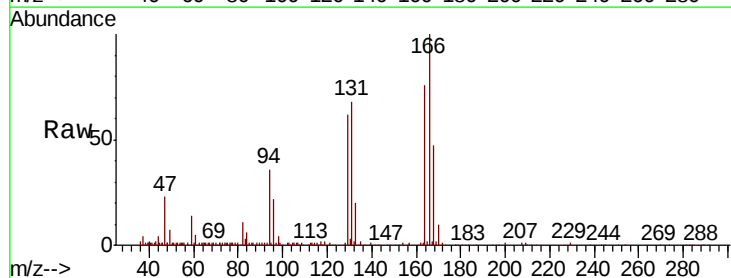
Instrument :  
MSVOA\_X  
ClientSampleId :

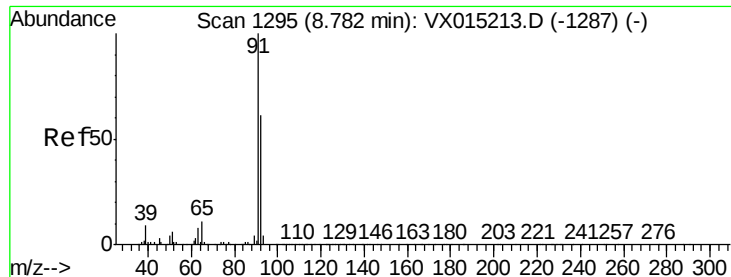
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 88.7  | 71.9  | 107.9 |
| 176     | 86.5  | 71.1  | 106.7 |



#61  
Tetrachloroethene  
Concen: 5.407 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 132.3 | 103.4 | 155.2 |
| 129     | 81.2  | 69.1  | 103.7 |
| 131     | 89.0  | 68.1  | 102.1 |





#62

Toluene

Concen: 5.280 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

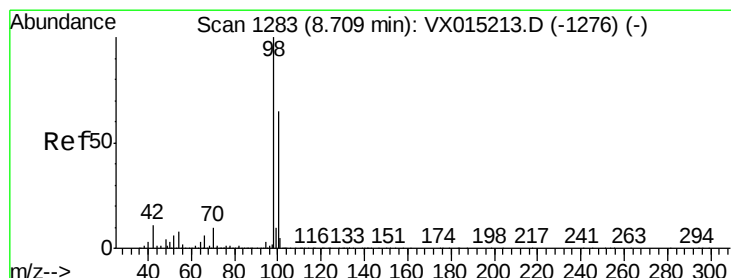
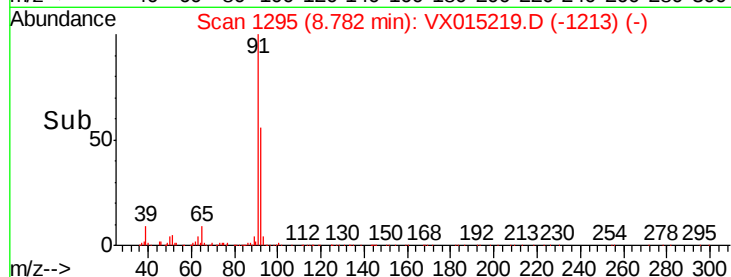
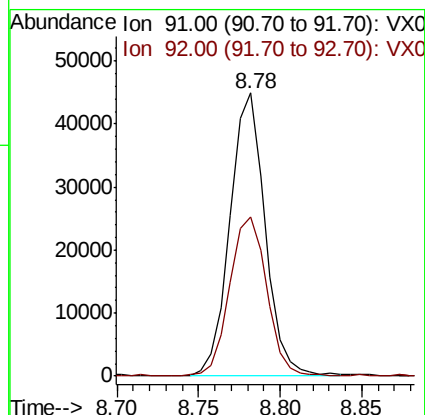
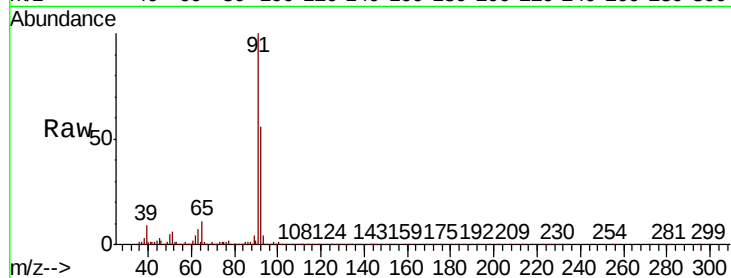
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 91 Resp: 66926

Ion Ratio Lower Upper

91 100

92 60.3 46.9 70.3



#63

Toluene-d8

Concen: 29.834 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015219.D

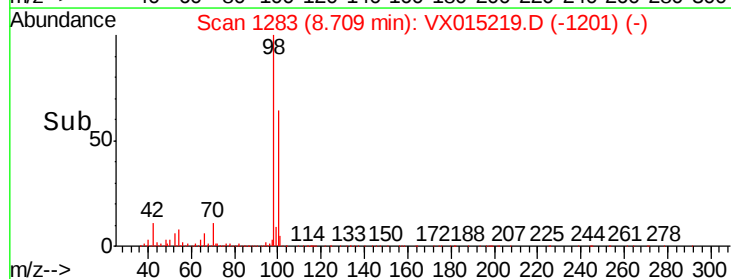
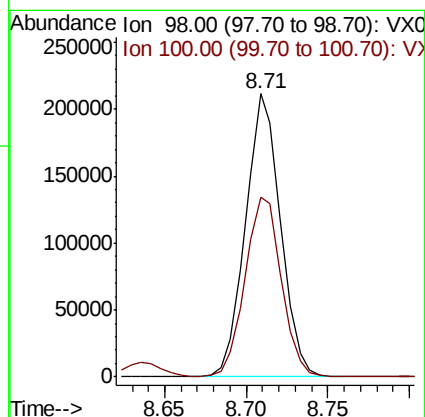
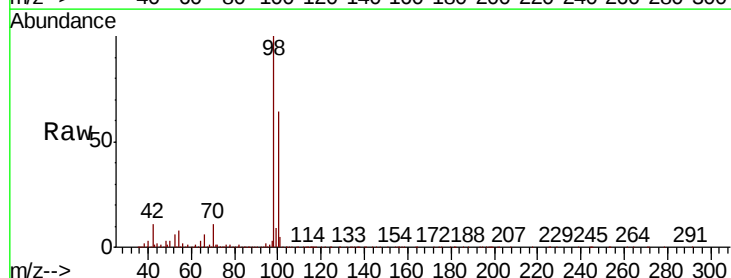
Acq: 11 Mar 2020 23:41

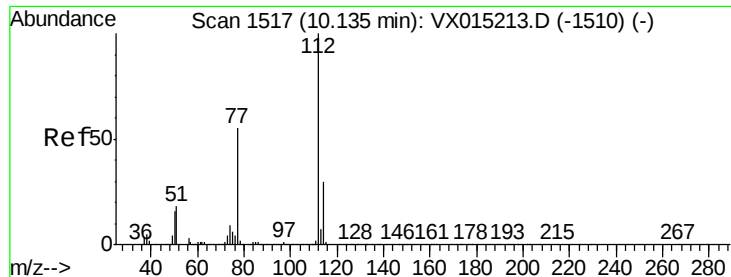
Tgt Ion: 98 Resp: 315511

Ion Ratio Lower Upper

98 100

100 66.2 53.3 79.9





#64

Chlorobenzene

Concen: 5.459 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

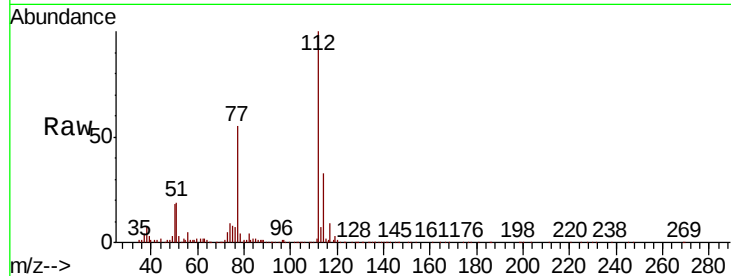
ClientSampleId :

Tot Ion:112 Resp: 43242

Ion Ratio Lower Upper

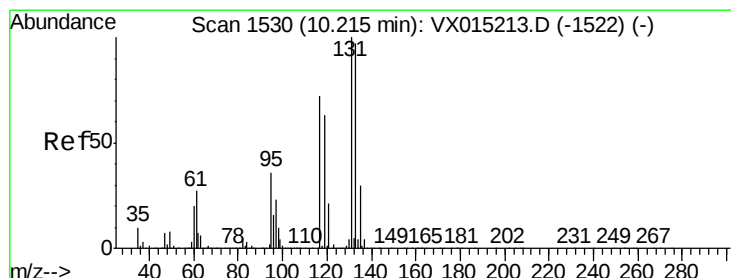
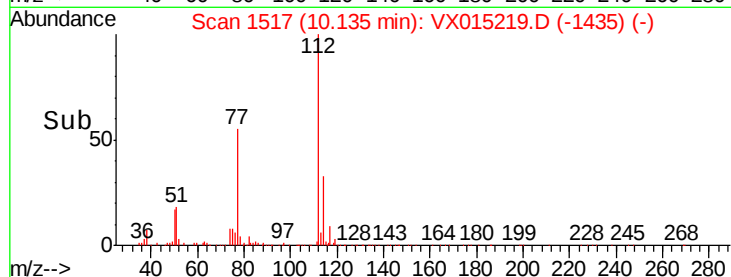
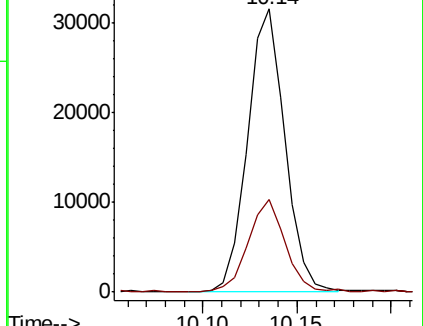
112 100

114 32.9 24.3 36.5



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#65

1,1,1,2-Tetrachloroethane

Concen: 5.089 ug/l

RT: 10.22 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

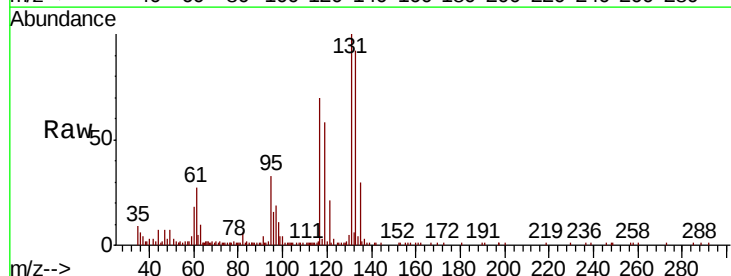
Tgt Ion:131 Resp: 14841

Ion Ratio Lower Upper

131 100

133 96.2 0.0 190.6

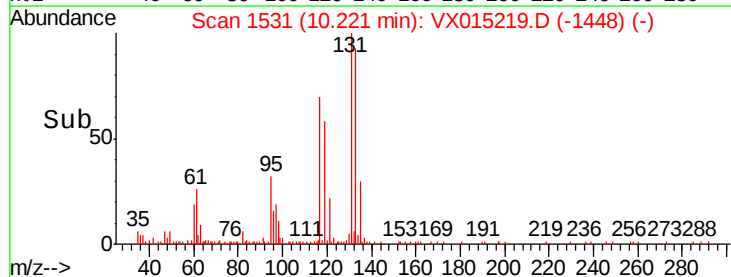
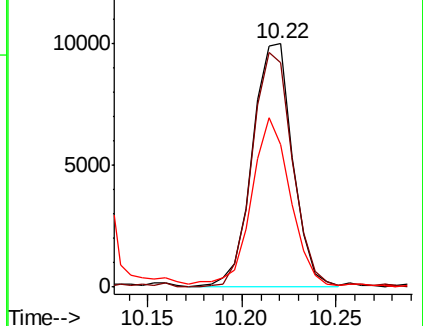
119 67.5 0.0 131.2

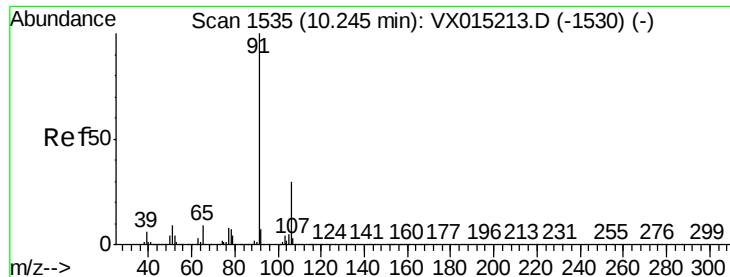


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#66

Ethyl Benzene

Concen: 5.134 ug/l

RT: 10.24 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

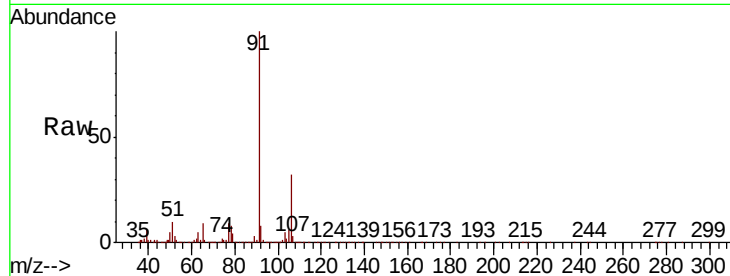
ClientSampled :

Tot Ion: 91 Resp: 70100

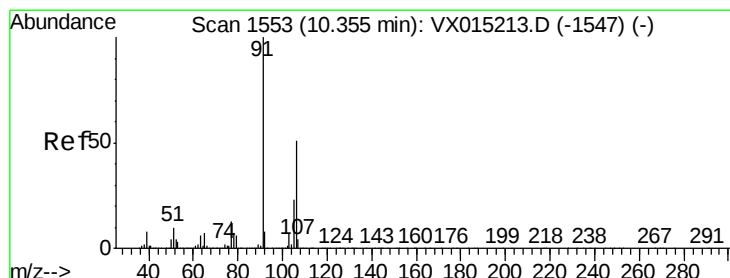
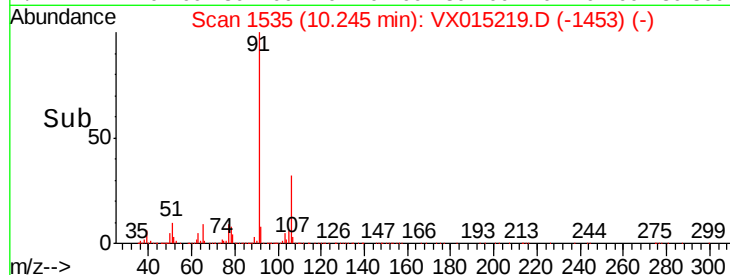
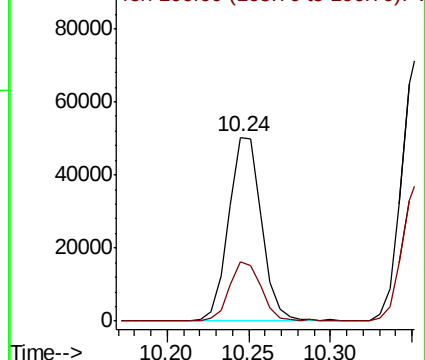
Ion Ratio Lower Upper

91 100

106 32.2 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VX015219.D (-1530) (-)



#67

m/p-Xylenes

Concen: 10.402 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX015219.D

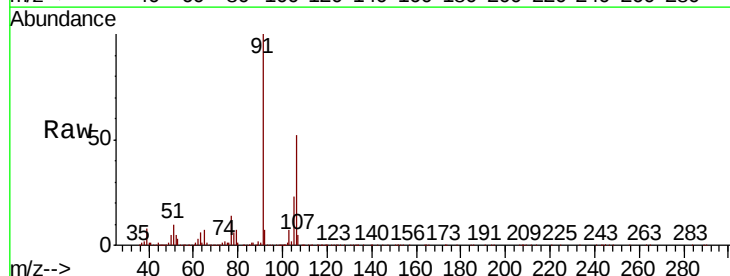
Acq: 11 Mar 2020 23:41

Tgt Ion: 106 Resp: 54454

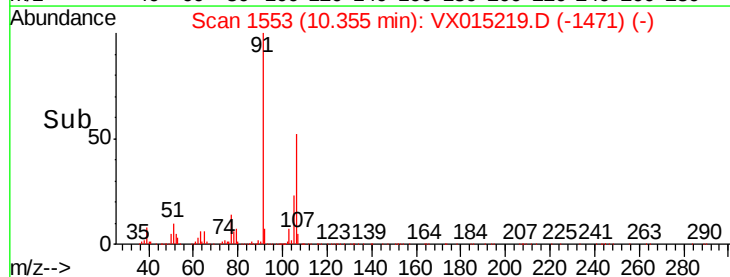
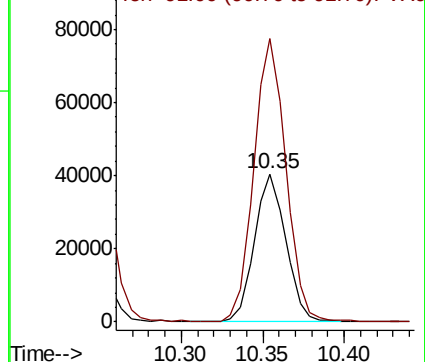
Ion Ratio Lower Upper

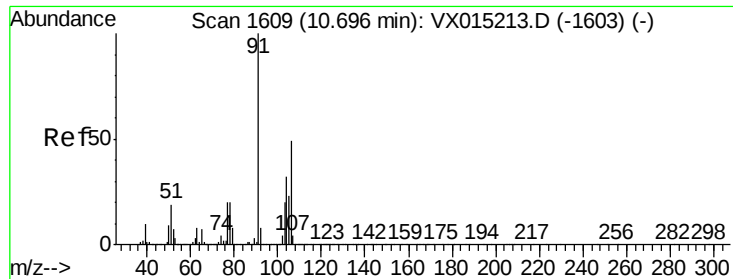
106 100

91 195.5 158.2 237.2



Abundance Ion 106.00 (105.70 to 106.70): VX015219.D (-1547) (-)

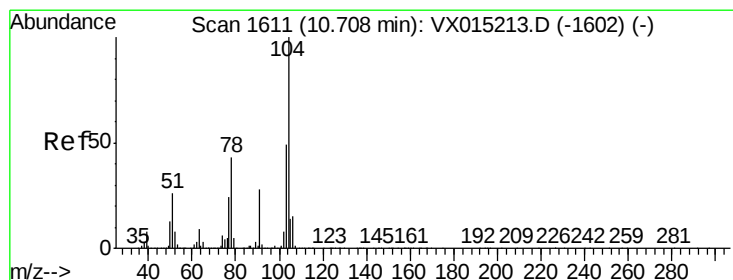
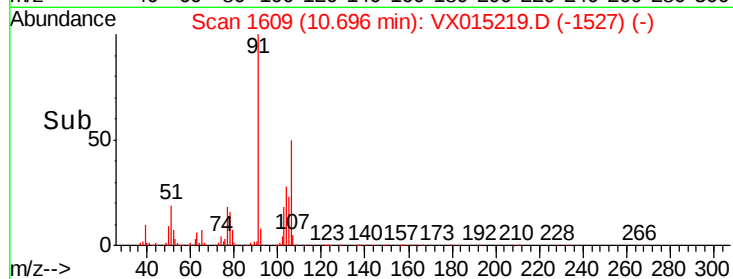
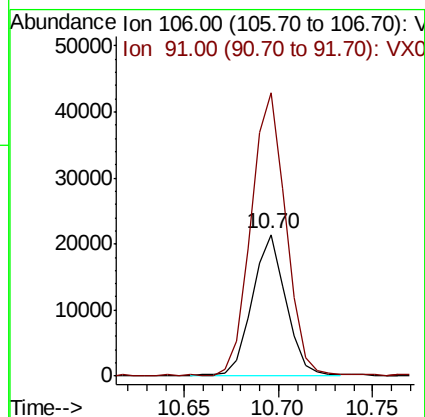
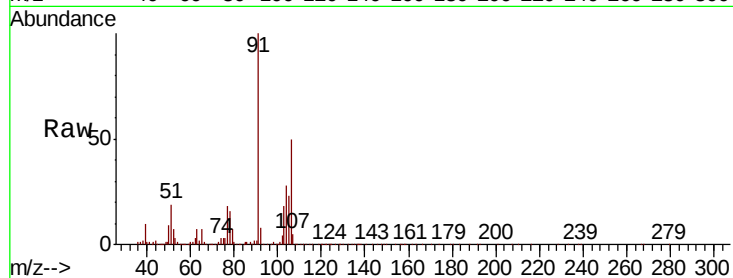




#68  
o-Xylene  
Concen: 5.257 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

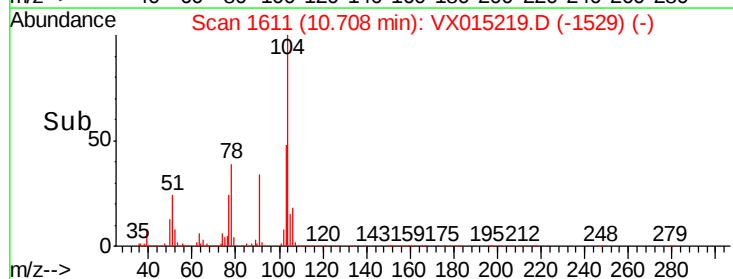
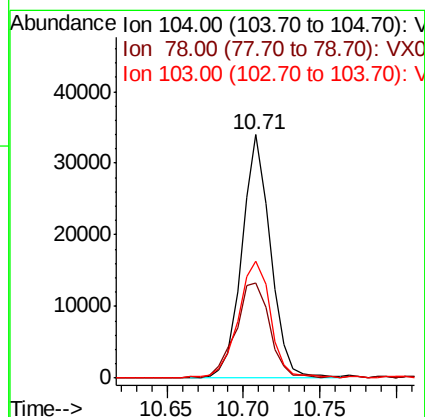
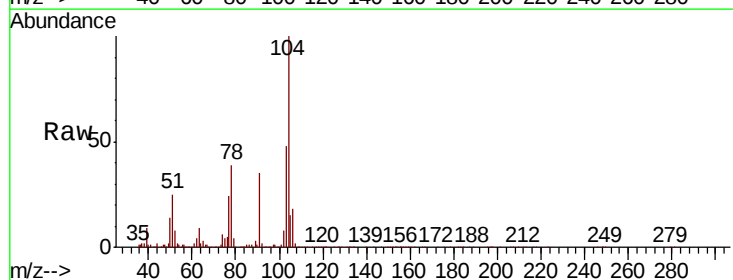
Instrument :  
MSVOA\_X  
ClientSampleId :

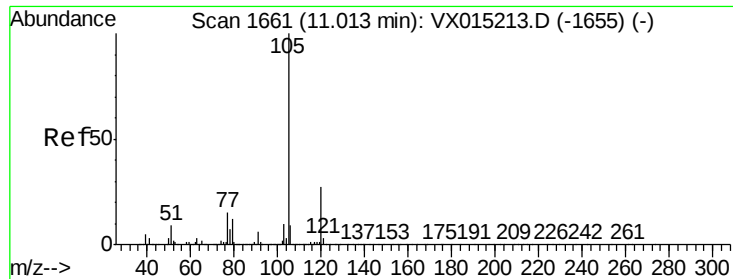
Tot Ion:106 Resp: 26268  
Ion Ratio Lower Upper  
106 100  
91 209.4 103.6 310.8



#69  
Styrene  
Concen: 4.951 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion:104 Resp: 43498  
Ion Ratio Lower Upper  
104 100  
78 45.8 38.3 57.5  
103 54.8 42.6 64.0





#70

Isopropylbenzene

Concen: 5.057 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

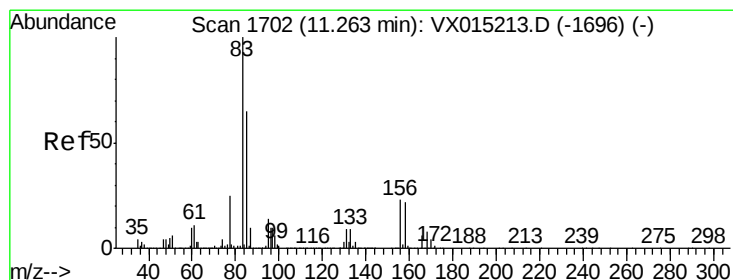
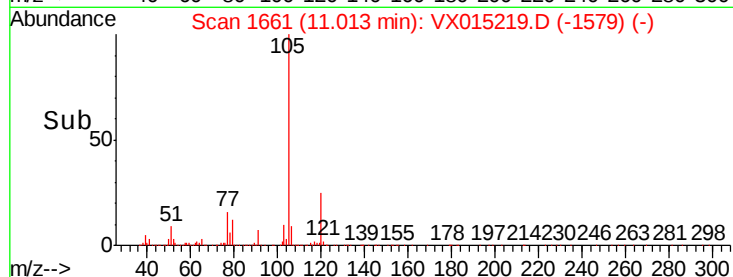
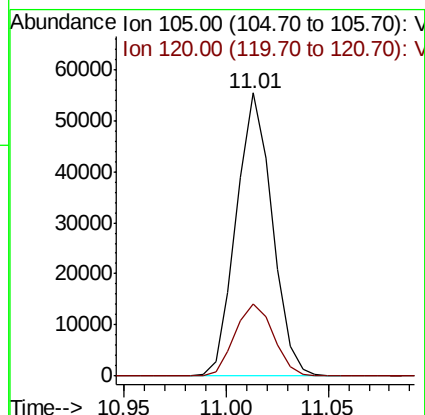
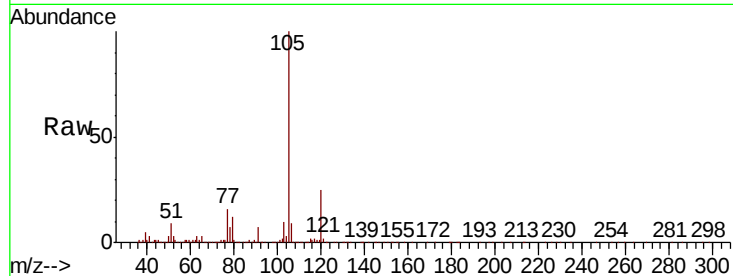
ClientSampleId :

Tot Ion:105 Resp: 67586

Ion Ratio Lower Upper

105 100

120 27.7 19.0 35.4



#71

1,1,2,2-Tetrachloroethane

Concen: 5.195 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

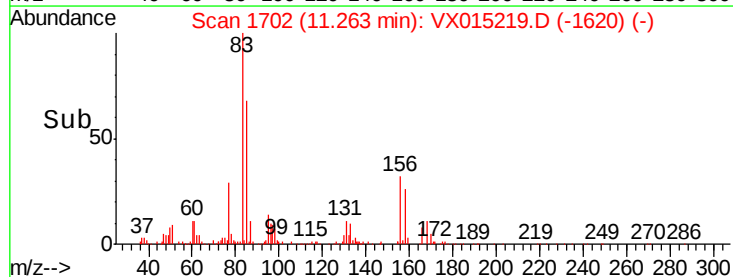
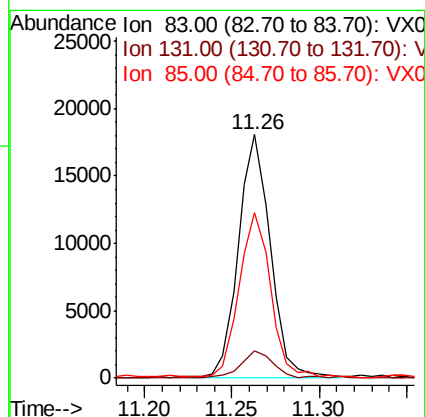
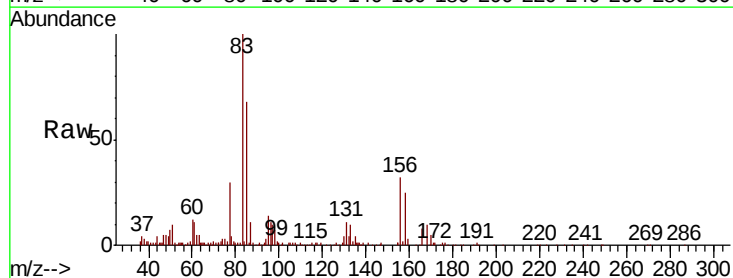
Tgt Ion: 83 Resp: 22699

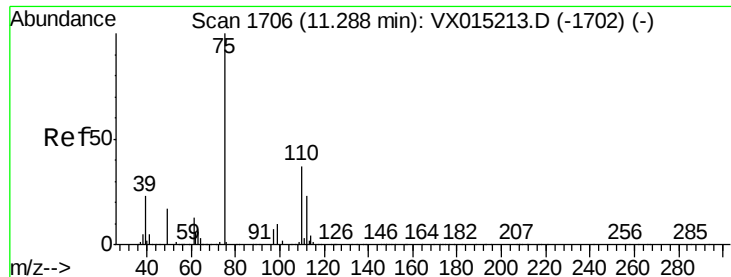
Ion Ratio Lower Upper

83 100

131 11.2 5.0 15.0

85 66.0 32.1 96.3



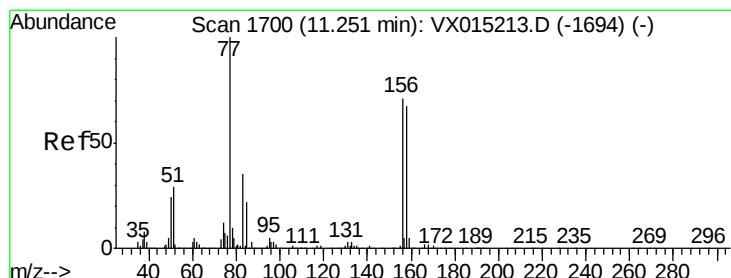
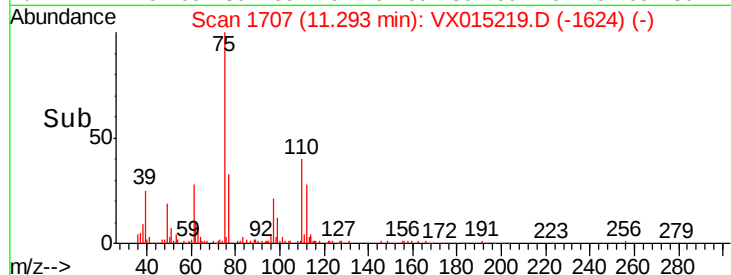
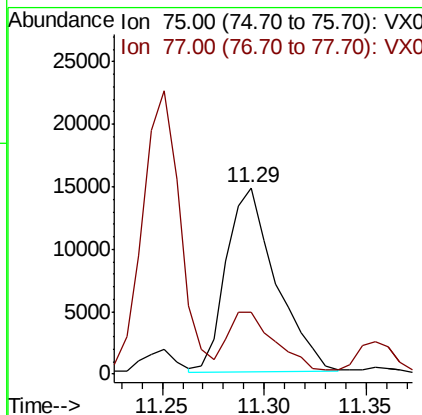
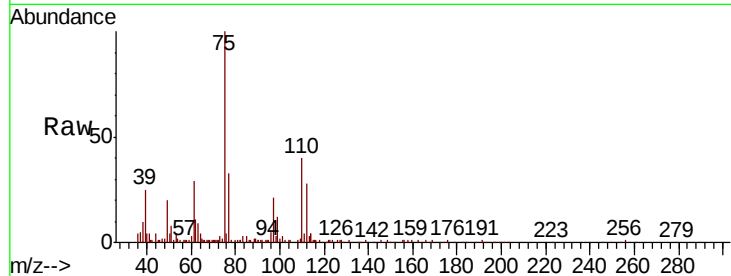


#72

1,2,3-Trichloropropane  
Concen: 7.004 ug/l  
RT: 11.29 min Scan# 1707  
Delta R.T. 0.01 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Instrument :  
MSVOA\_X  
ClientSampled :

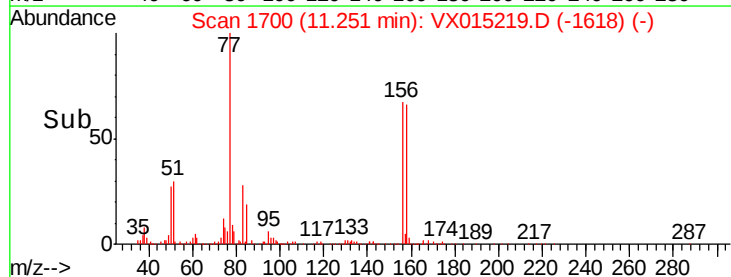
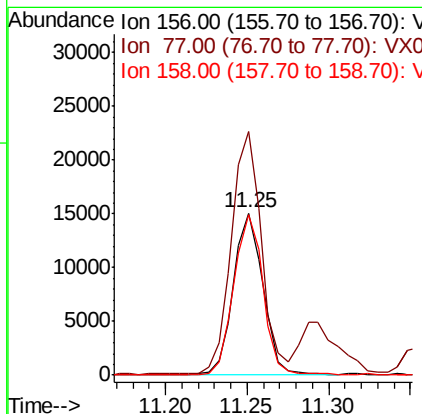
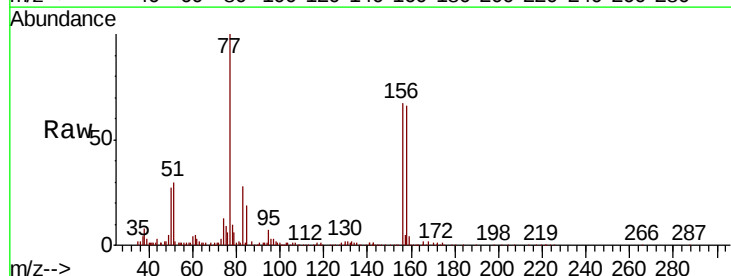
Tot Ion: 75 Resp: 24887  
Ion Ratio Lower Upper  
75 100  
77 32.2 0.0 69.4

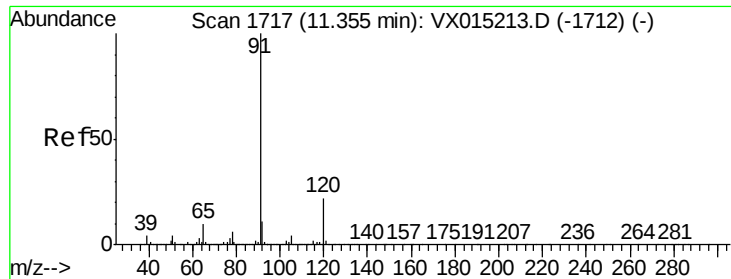


#73

Bromobenzene  
Concen: 5.261 ug/l  
RT: 11.25 min Scan# 1700  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion: 156 Resp: 19235  
Ion Ratio Lower Upper  
156 100  
77 150.3 0.0 300.2  
158 96.9 0.0 195.2





#74

n-propylbenzene

Concen: 5.079 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

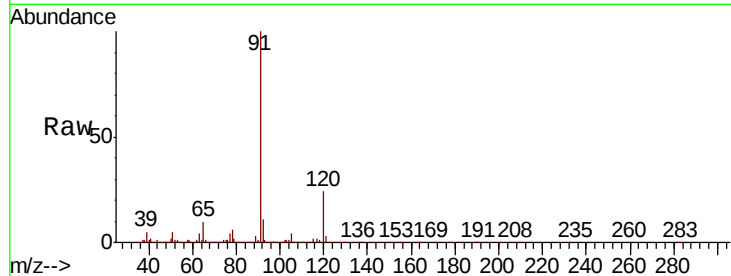
ClientSampleId :

Tot Ion: 91 Resp: 78353

Ion Ratio Lower Upper

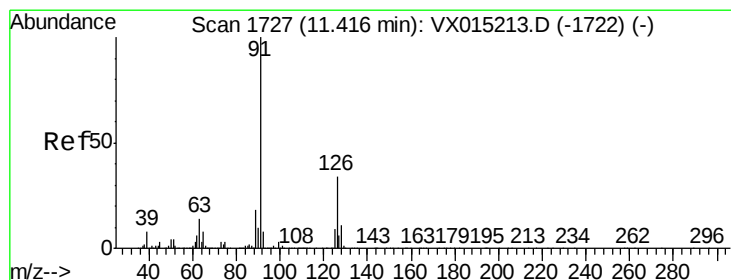
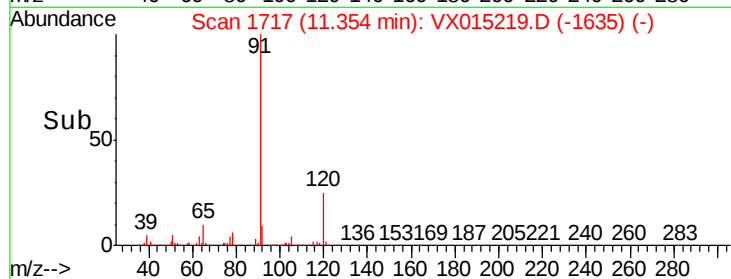
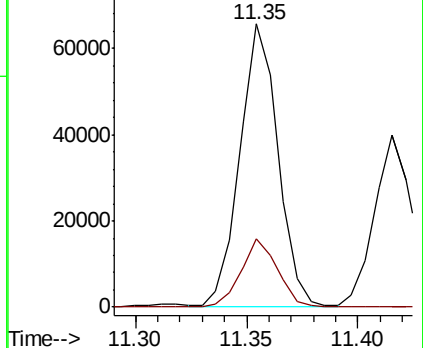
91 100

120 23.4 0.0 46.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#75

2-Chlorotoluene

Concen: 5.247 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. -0.00 min

Lab File: VX015219.D

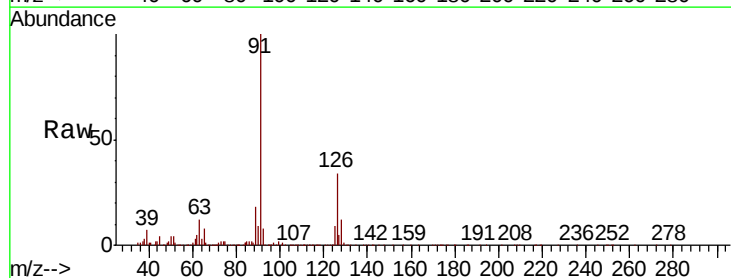
Acq: 11 Mar 2020 23:41

Tgt Ion: 91 Resp: 47757

Ion Ratio Lower Upper

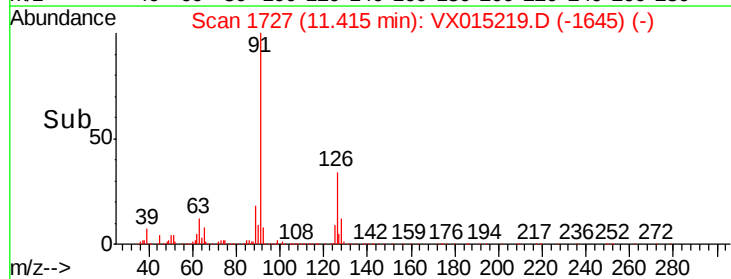
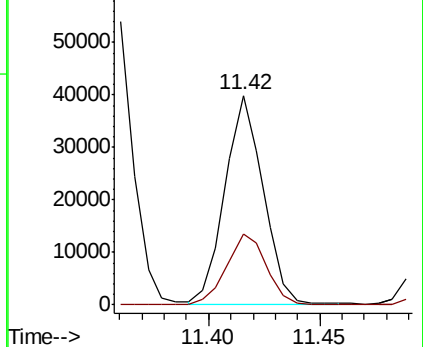
91 100

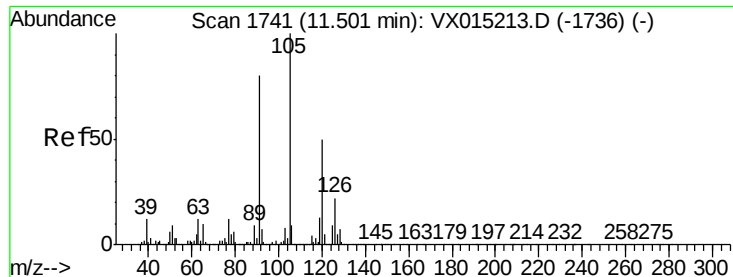
126 35.5 0.0 68.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V





#76

1,3,5-Trimethylbenzene

Concen: 5.056 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

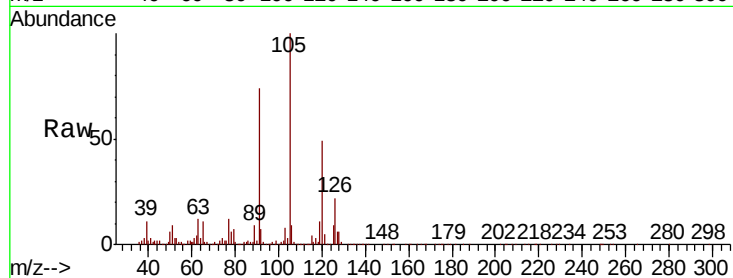
ClientSampleId :

Tot Ion:105 Resp: 55916

Ion Ratio Lower Upper

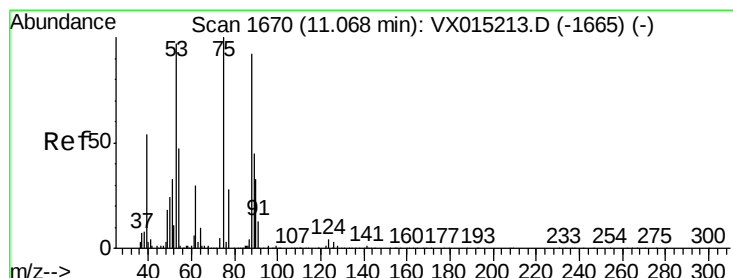
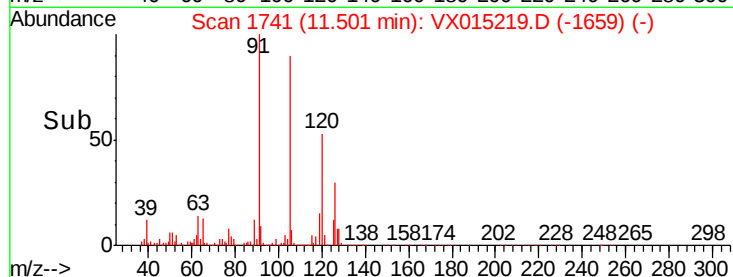
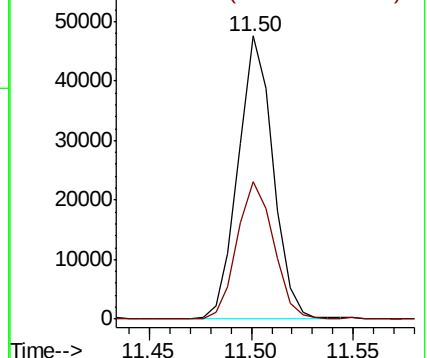
105 100

120 51.3 0.0 100.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#77

t-1,4-Dichloro-2-butene

Concen: 4.125 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

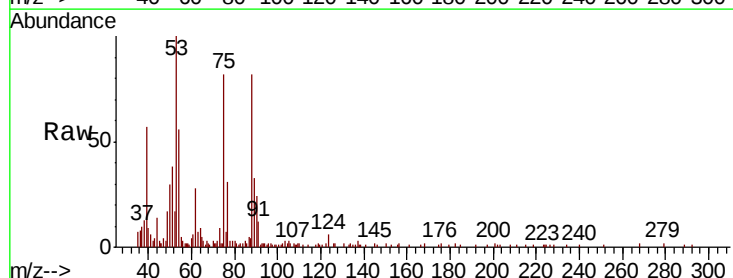
Tgt Ion: 75 Resp: 5726

Ion Ratio Lower Upper

75 100

53 122.0 48.7 146.1

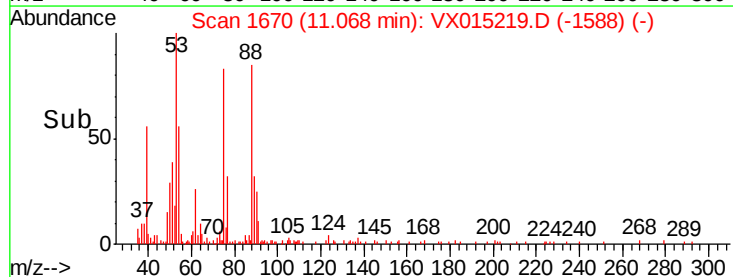
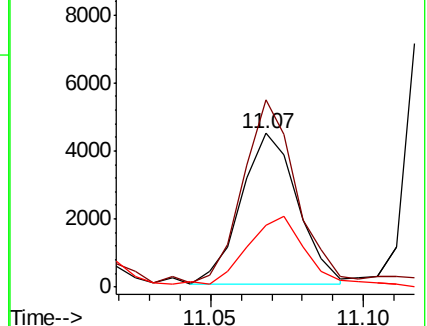
89 37.6 22.4 67.3

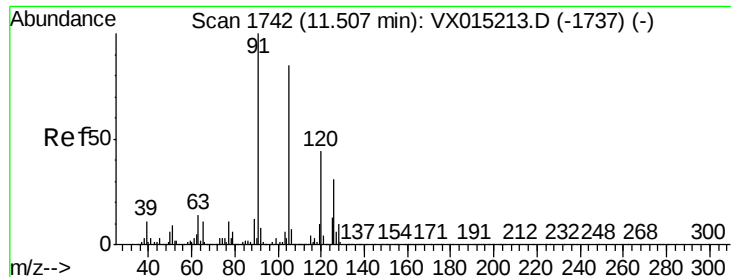


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0





#78

4-Chlorotoluene

Concen: 5.305 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

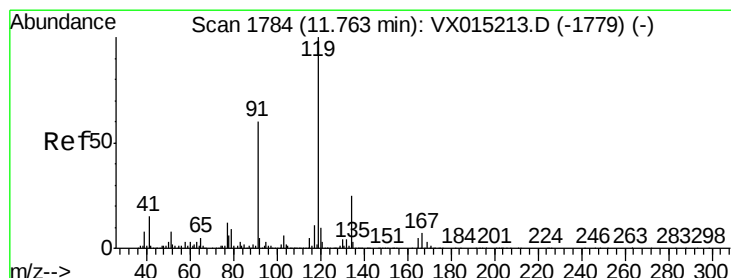
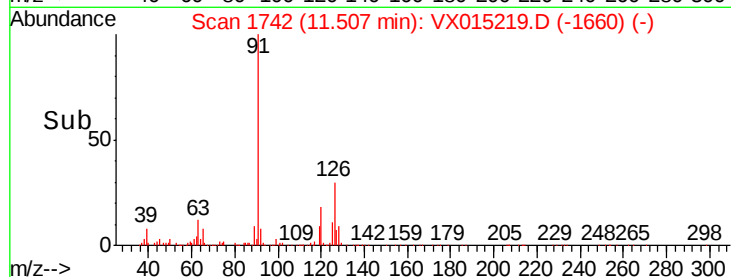
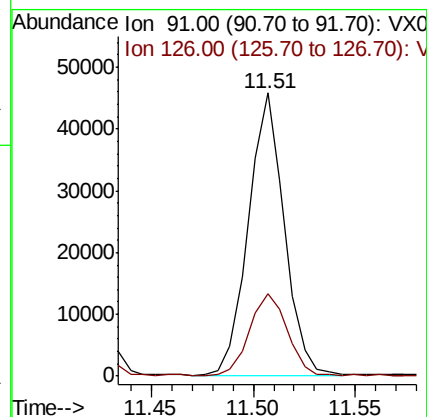
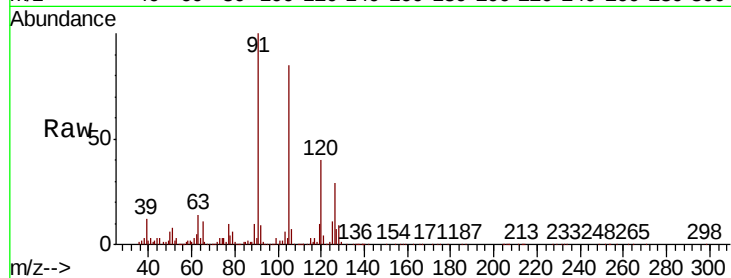
ClientSampled :

Tot Ion: 91 Resp: 55907

Ion Ratio Lower Upper

91 100

126 30.4 0.0 60.0



#79

tert-butylbenzene

Concen: 5.123 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

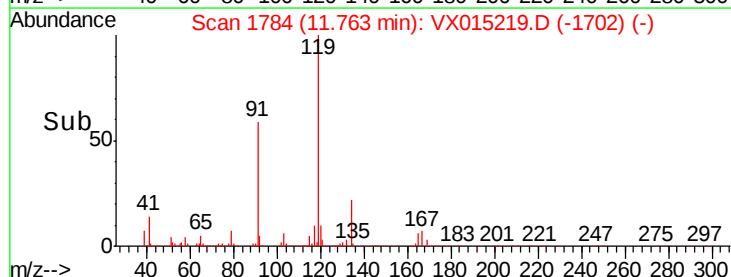
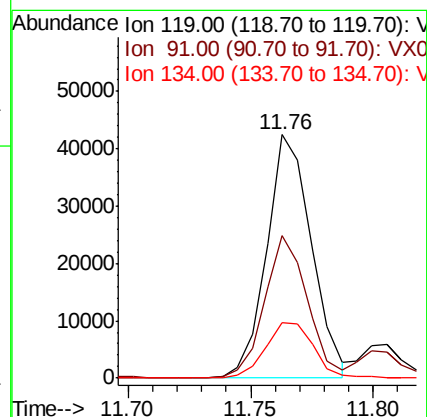
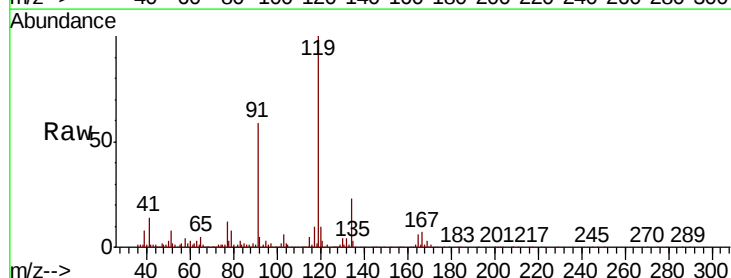
Tgt Ion: 119 Resp: 54168

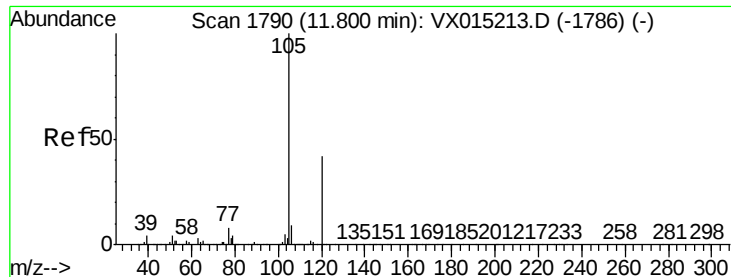
Ion Ratio Lower Upper

119 100

91 55.4 0.0 113.8

134 24.8 0.0 50.6

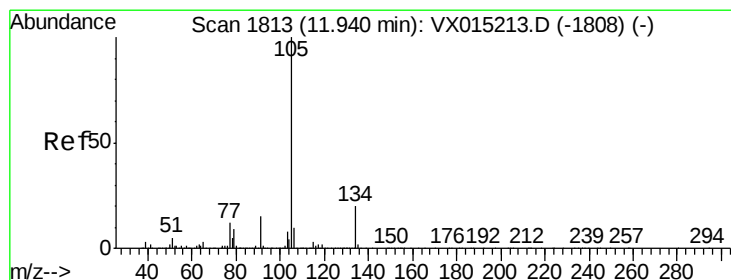
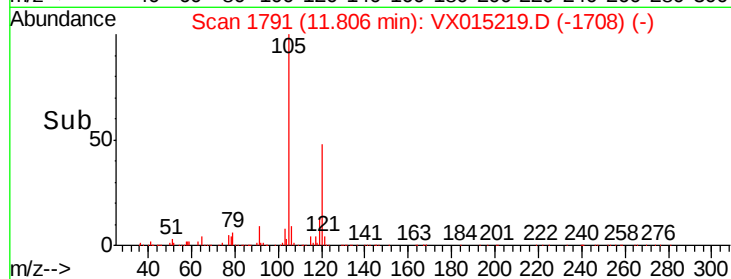
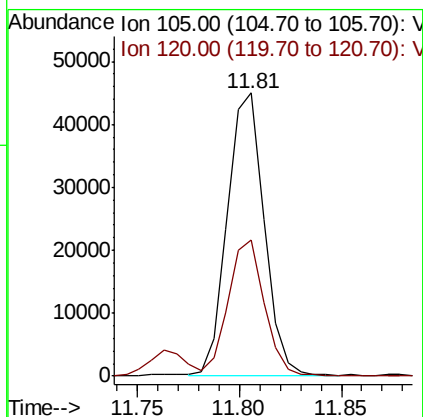
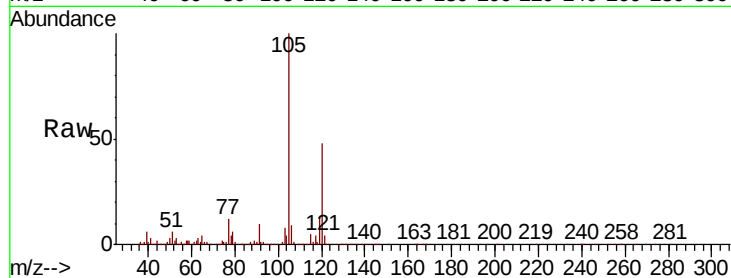




#80  
 1,2,4-Trimethylbenzene  
 Concen: 5.030 ug/l  
 RT: 11.81 min Scan# 1791  
 Delta R.T. 0.01 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

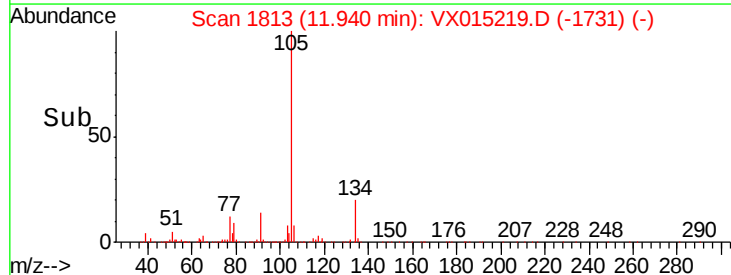
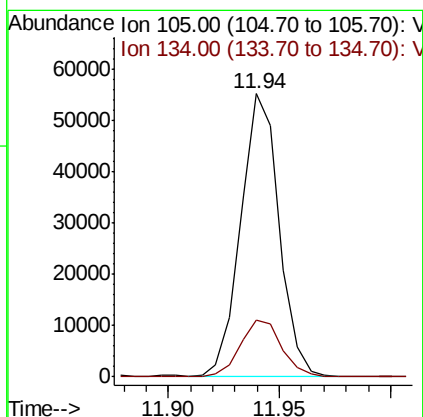
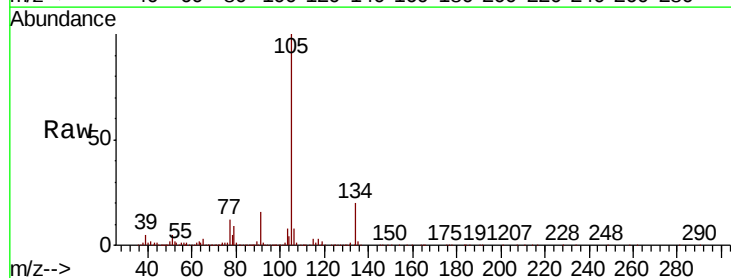
Instrument :  
 MSVOA\_X  
 ClientSampleId :

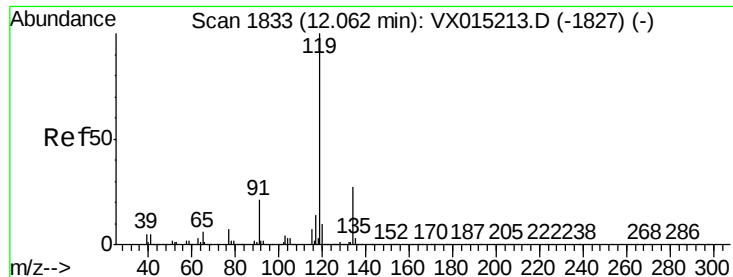
Tot Ion:105 Resp: 56176  
 Ion Ratio Lower Upper  
 105 100  
 120 46.7 0.0 92.2



#81  
 sec-Butylbenzene  
 Concen: 5.072 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

Tgt Ion:105 Resp: 66207  
 Ion Ratio Lower Upper  
 105 100  
 134 21.8 0.0 41.4

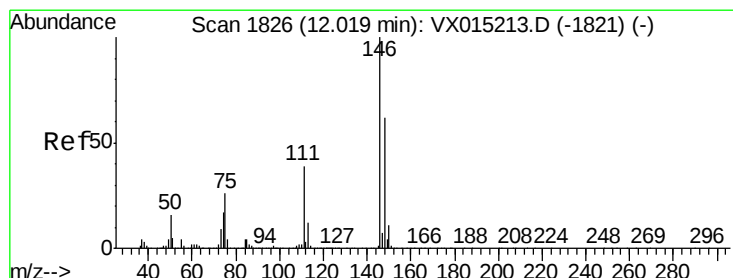
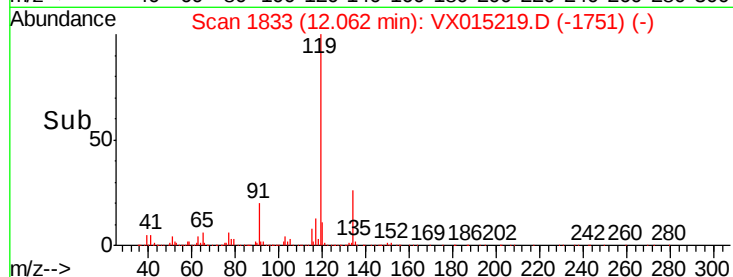
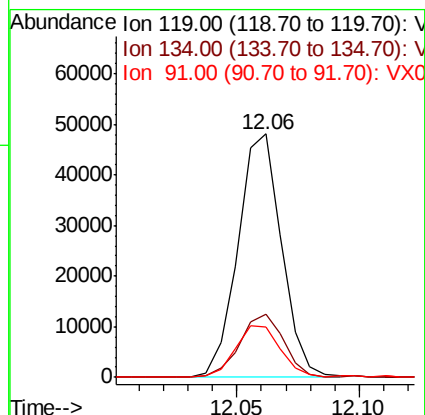
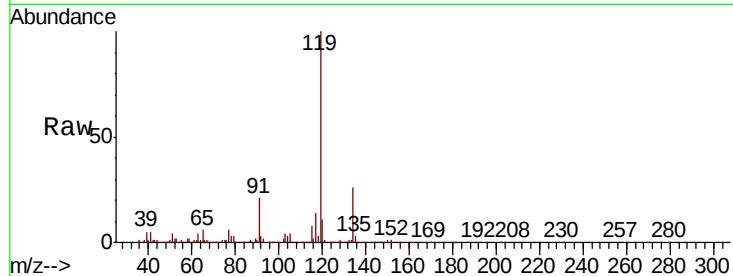




#82  
p-Isopropyltoluene  
Concen: 5.005 ug/l  
RT: 12.06 min Scan# 1833  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

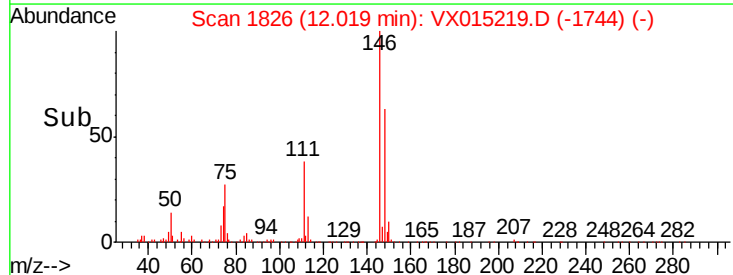
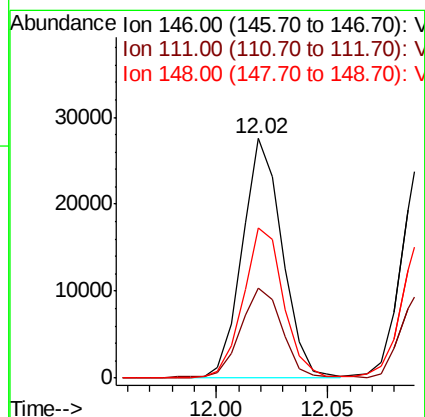
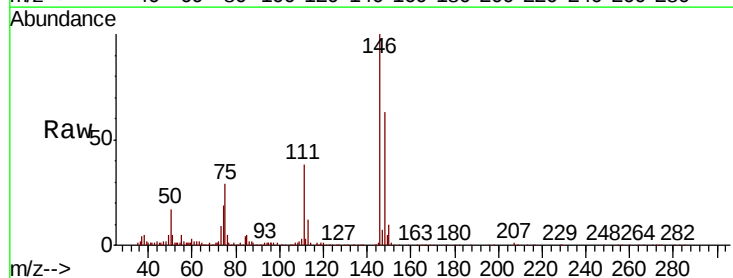
Instrument :  
MSVOA\_X  
ClientSampleId :

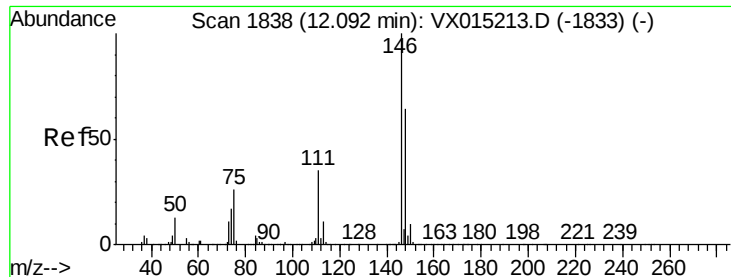
Tot Ion:119 Resp: 59472  
Ion Ratio Lower Upper  
119 100  
134 26.2 0.0 52.2  
91 21.6 0.0 43.4



#83  
1,3-Dichlorobenzene  
Concen: 5.309 ug/l  
RT: 12.02 min Scan# 1826  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion:146 Resp: 34508  
Ion Ratio Lower Upper  
146 100  
111 38.8 19.1 57.5  
148 63.2 31.3 93.9





#84

1,4-Dichlorobenzene

Concen: 5.375 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VX015219.D

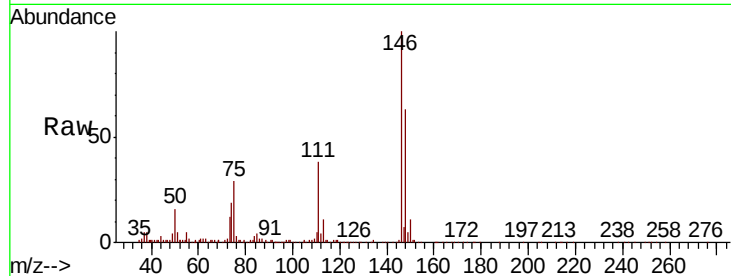
Acq: 11 Mar 2020 23:41

Instrument :

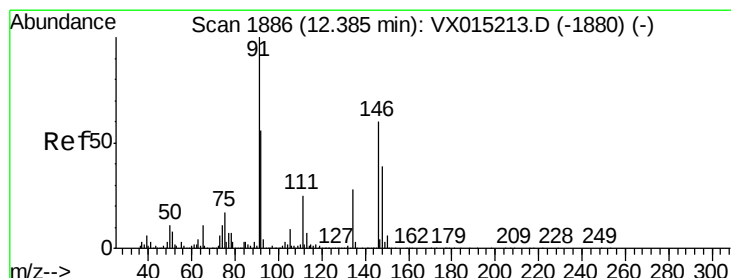
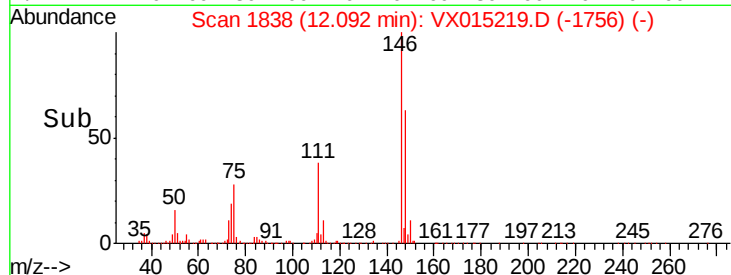
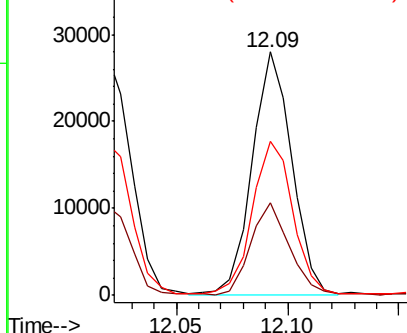
MSVOA\_X

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 34947 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 37.5  | 18.1  | 54.1  |
| 148      | 65.0  | 31.7  | 95.1  |



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V



#85

n-Butylbenzene

Concen: 4.876 ug/l

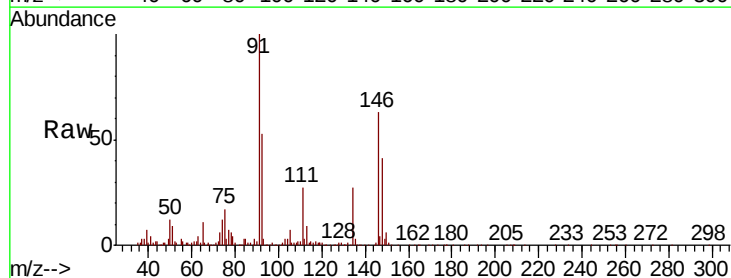
RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

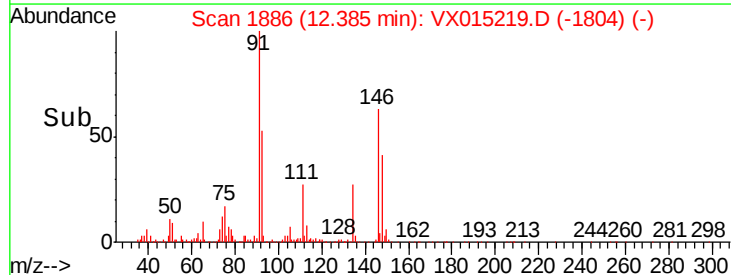
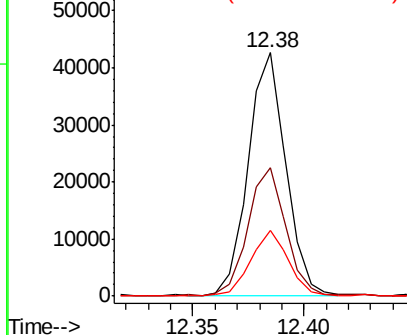
Lab File: VX015219.D

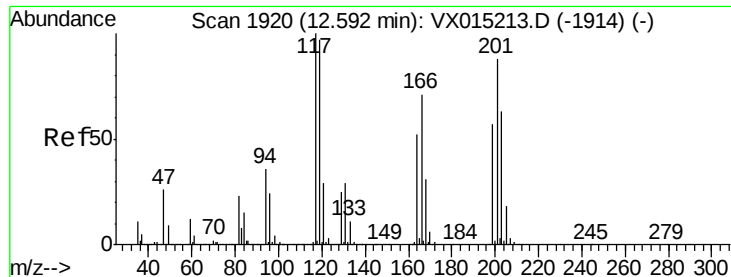
Acq: 11 Mar 2020 23:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 50341 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 52.9  | 0.0   | 109.6 |
| 134      | 27.1  | 0.0   | 54.6  |



Abundance Ion 91.00 (90.70 to 91.70): VX0  
Ion 92.00 (91.70 to 92.70): VX0  
Ion 134.00 (133.70 to 134.70): V

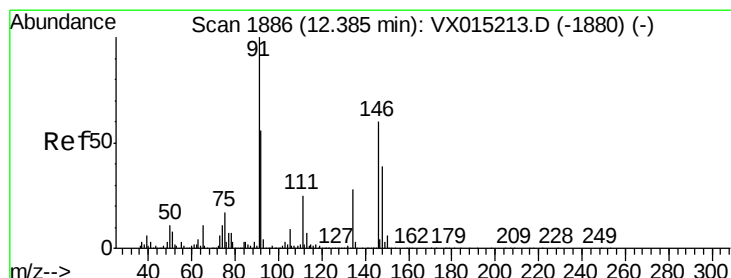
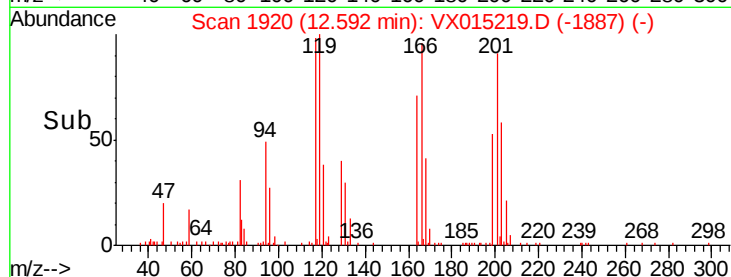
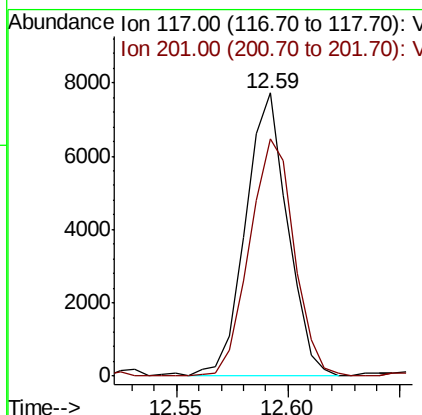
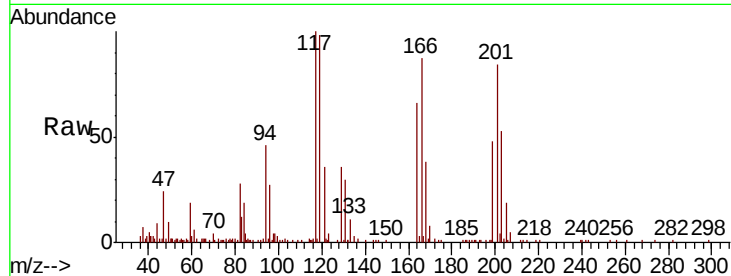




#86  
Hexachloroethane  
Concen: 4.817 ug/l  
RT: 12.59 min Scan# 1920  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

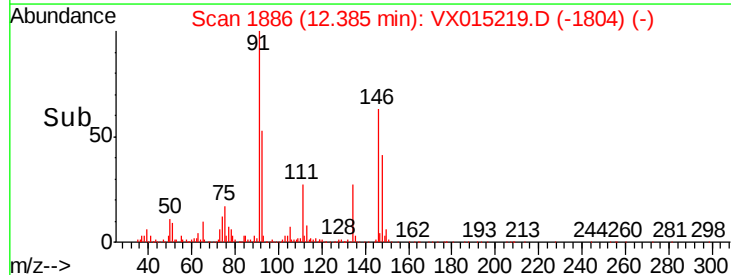
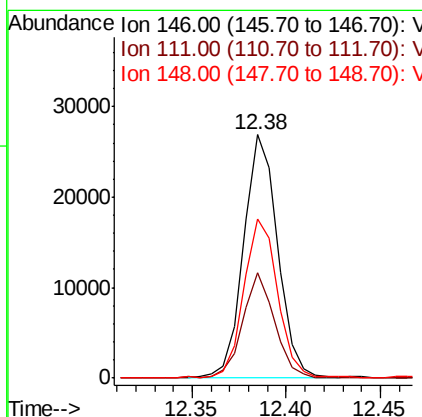
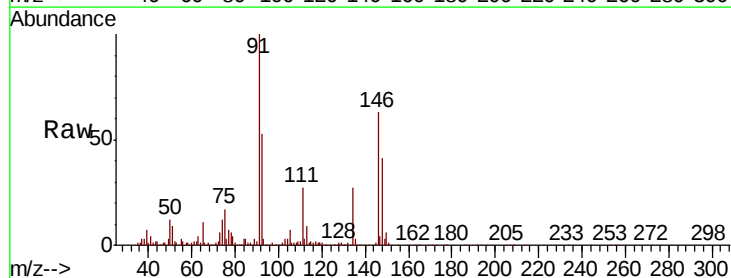
Instrument :  
MSVOA\_X  
ClientSampleId :

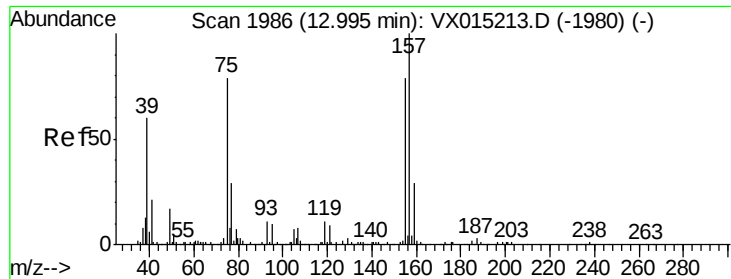
Tot Ion:117 Resp: 10178  
Ion Ratio Lower Upper  
117 100  
201 88.8 43.8 131.4



#87  
1,2-Dichlorobenzene  
Concen: 5.354 ug/l  
RT: 12.38 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX015219.D  
Acq: 11 Mar 2020 23:41

Tgt Ion:146 Resp: 33830  
Ion Ratio Lower Upper  
146 100  
111 40.6 20.2 60.5  
148 64.8 32.5 97.5





#88

1,2-Dibromo-3-Chloropropane

Concen: 5.132 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

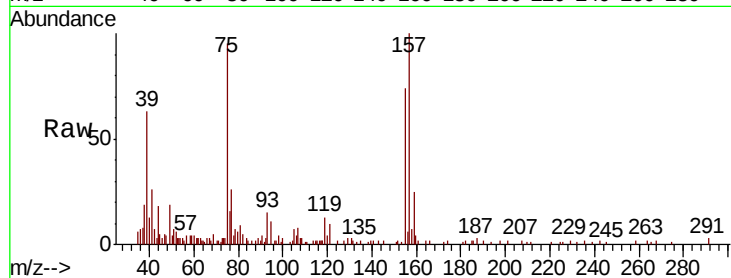
Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion: 75 Resp: 4605

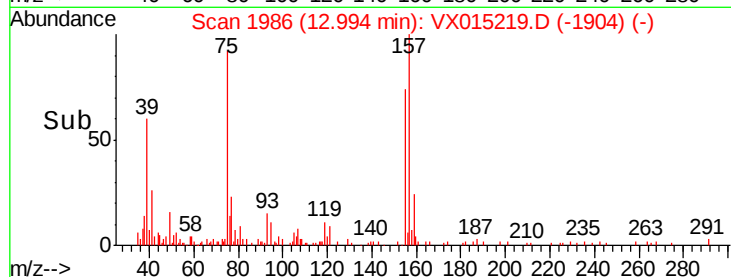
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 155 | 92.0  | 79.4  | 119.2 |
| 157 | 125.5 | 99.1  | 148.7 |



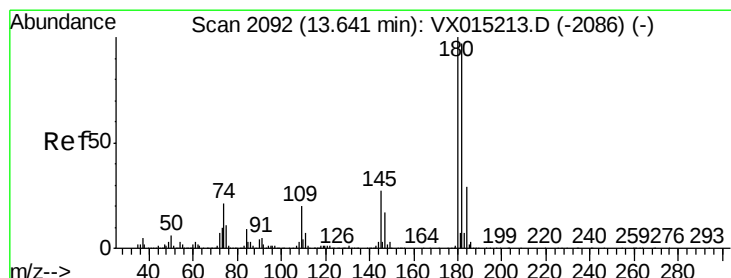
Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



Time-->



#89

1,2,4-Trichlorobenzene

Concen: 5.247 ug/l

RT: 13.64 min Scan# 2092

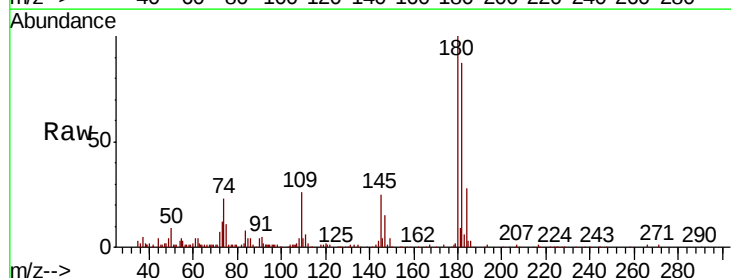
Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Tgt Ion: 180 Resp: 24043

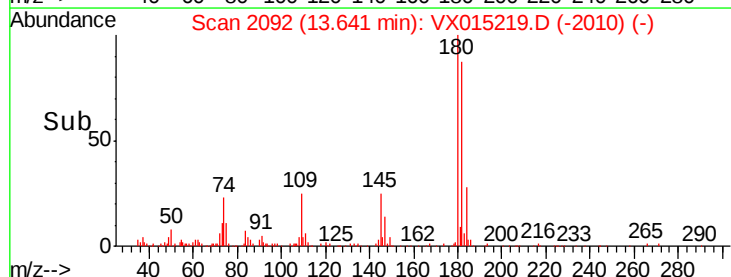
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 93.1  | 75.6  | 113.4 |
| 145 | 27.5  | 22.7  | 34.1  |



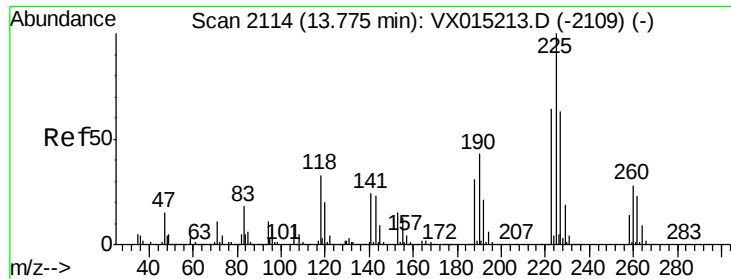
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



Time-->



#90

Hexachlorobutadiene

Concen: 5.212 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

Instrument :

MSVOA\_X

ClientSampleId :

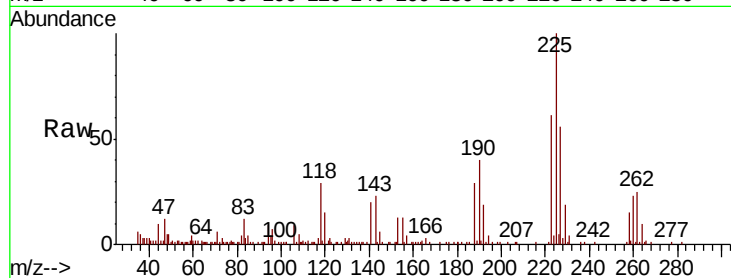
Tot Ion:225 Resp: 11793

Ion Ratio Lower Upper

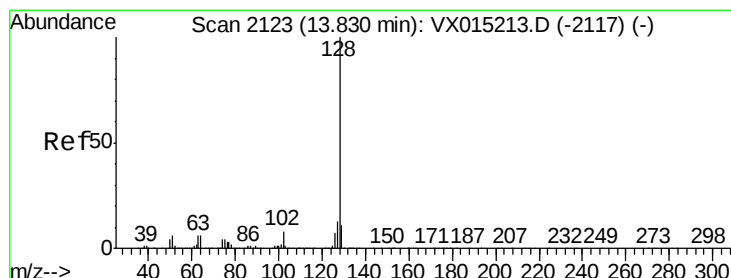
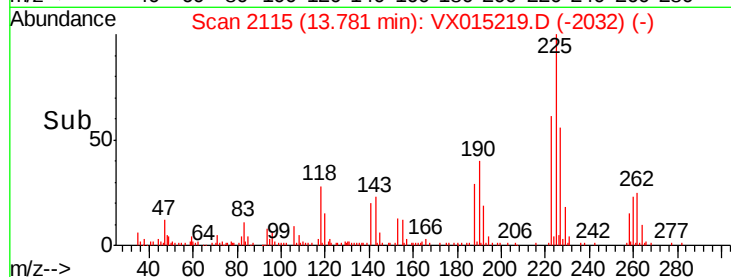
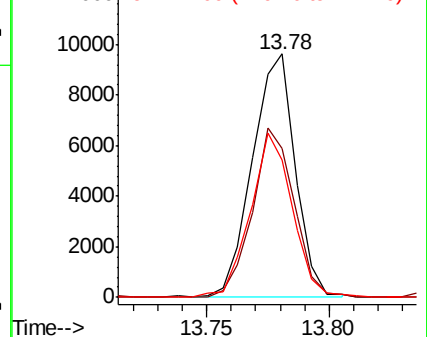
225 100

223 67.6 0.0 127.6

227 66.0 0.0 128.6



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



#91

Naphthalene

Concen: 4.645 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX015219.D

Acq: 11 Mar 2020 23:41

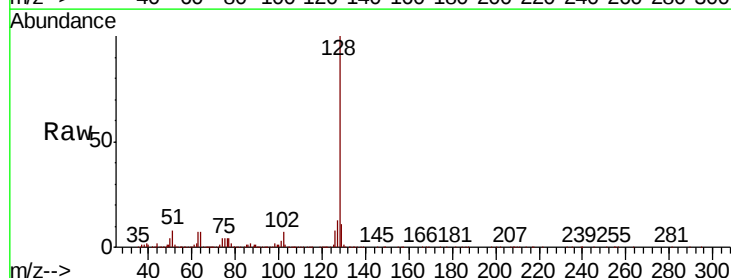
Tgt Ion:128 Resp: 59884

Ion Ratio Lower Upper

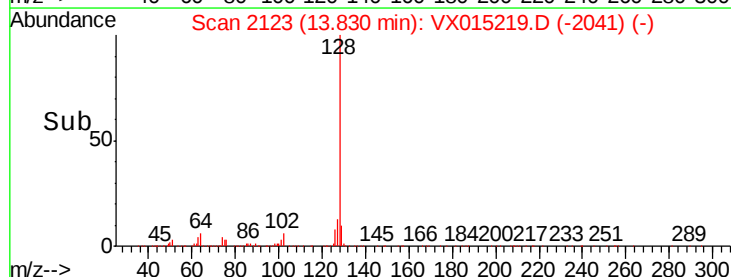
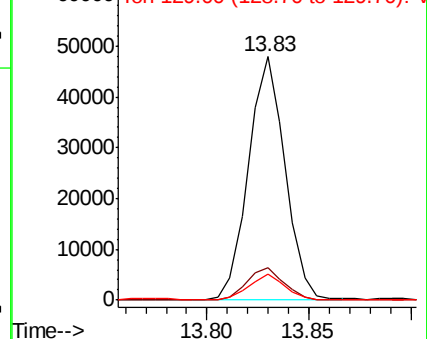
128 100

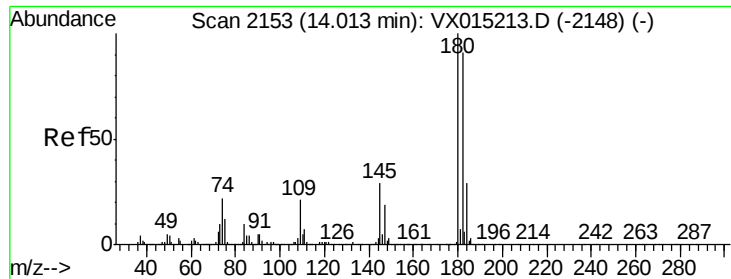
127 13.5 10.4 15.6

129 10.8 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

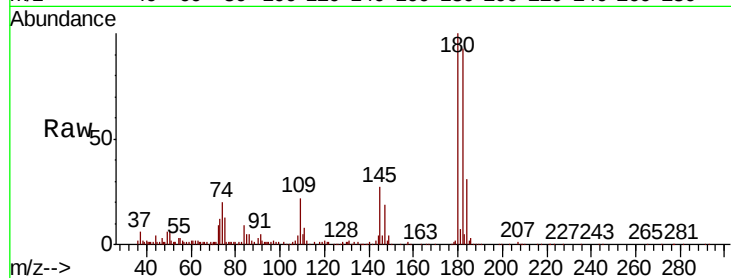




#92  
 1,2,3-Trichlorobenzene  
 Concen: 5.240 ug/l  
 RT: 14.01 min Scan# 2153  
 Delta R.T. -0.00 min  
 Lab File: VX015219.D  
 Acq: 11 Mar 2020 23:41

Instrument :  
 MSVOA\_X  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.3  | 0.0   | 188.4 |
| 145     | 29.2  | 0.0   | 59.2  |



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

