

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\  
 Data File : VX010976.D  
 Acq On : 18 Jul 2019 22:22  
 Operator : JC/SP  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 19 03:18:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jul 19 03:13:22 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.02  | 128  | 40759    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 221910   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 197447   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 27) 1,2-Dichloroethane-d4 | 6.06   | 65    | 80722    | 24.81    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 82.70% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 92870    | 28.11    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 93.70% |
| 63) Toluene-d8            | 8.71   | 98    | 263917   | 28.65    | ug/l | 0.00   |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 95.50% |

## Target Compounds

|                               |      |     |       |        | Ovalue     |
|-------------------------------|------|-----|-------|--------|------------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 9946  | 4.326  | ug/l 97    |
| 3) Chloromethane              | 1.32 | 50  | 10697 | 3.774  | ug/l 99    |
| 4) Vinyl Chloride             | 1.41 | 62  | 10826 | 3.819  | ug/l 94    |
| 5) Bromomethane               | 1.64 | 94  | 6613  | 3.615  | ug/l 93    |
| 6) Chloroethane               | 1.72 | 64  | 7110  | 3.912  | ug/l 96    |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 18810 | 5.062  | ug/l 94    |
| 8) Diethyl Ether              | 2.19 | 74  | 6474  | 4.015  | ug/l 94    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 10553 | 4.716  | ug/l 99    |
| 10) 1,1-Dichloroethene        | 2.37 | 96  | 10883 | 4.838  | ug/l 96    |
| 11) Methyl Iodide             | 2.51 | 142 | 10856 | 4.276  | ug/l 93    |
| 12) Methyl Acetate            | 2.78 | 43  | 13929 | 3.441  | ug/l 95    |
| 13) Acrolein                  | 2.29 | 56  | 9311  | 16.942 | ug/l 99    |
| 14) Acrylonitrile             | 3.14 | 53  | 28403 | 16.499 | ug/l 97    |
| 15) Acetone                   | 2.44 | 58  | 8216  | 16.784 | ug/l 96    |
| 16) Carbon Disulfide          | 2.57 | 76  | 24683 | 4.126  | ug/l 97    |
| 17) Allyl chloride            | 2.73 | 41  | 14884 | 3.005  | ug/l 94    |
| 18) Methylene Chloride        | 2.85 | 84  | 12452 | 4.650  | ug/l 95    |
| 19) trans-1,2-Dichloroethene  | 3.17 | 96  | 11458 | 4.777  | ug/l 98    |
| 20) Diisopropyl ether         | 3.85 | 45  | 32735 | 3.324  | ug/l 96    |
| 21) 1,1-Dichloroethane        | 3.70 | 63  | 18802 | 3.835  | ug/l 96    |
| 22) cis-1,2-Dichloroethene    | 4.59 | 96  | 13245 | 4.645  | ug/l 98    |
| 23) tert-Butyl Alcohol        | 3.04 | 59  | 19893 | 26.379 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 3.20 | 73  | 34163 | 4.024  | ug/l 99    |
| 25) Chloroform                | 5.21 | 83  | 21060 | 4.578  | ug/l 96    |
| 26) Cyclohexane               | 5.58 | 56  | 17849 | 3.929  | ug/l # 57  |
| 29) 1,1-Dichloropropene       | 5.80 | 75  | 14871 | 4.606  | ug/l 88    |
| 30) 2-Butanone                | 4.67 | 43  | 38925 | 16.356 | ug/l 98    |
| 31) 2,2-Dichloropropane       | 4.59 | 77  | 12321 | 3.620  | ug/l # 82  |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 16562 | 4.637  | ug/l 99    |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 13620 | 4.563  | ug/l 96    |
| 34) Benzene                   | 6.15 | 78  | 45350 | 4.583  | ug/l 97    |
| 35) Methacrylonitrile         | 5.04 | 41  | 7914  | 3.200  | ug/l 95    |
| 36) 1,2-Dichloroethane        | 6.19 | 62  | 16155 | 4.531  | ug/l # 89  |
| 37) Trichloroethene           | 7.22 | 130 | 13369 | 5.391  | ug/l 85    |
| 38) Methylcyclohexane         | 7.46 | 83  | 18710 | 4.666  | ug/l 99    |
| 39) 1,2-Dichloropropane       | 7.51 | 63  | 11164 | 4.049  | ug/l 91    |
| 40) Dibromomethane            | 7.66 | 93  | 8127  | 4.960  | ug/l 97    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\  
 Data File : VX010976.D  
 Acq On : 18 Jul 2019 22:22  
 Operator : JC/SP  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 19 03:18:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jul 19 03:13:22 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Bromodichloromethane       | 7.90  | 83   | 13273    | 4.079  | ug/l  | 98       |
| 42) Vinyl Acetate              | 3.81  | 43   | 127373   | 16.295 | ug/l  | 100      |
| 43) Ethyl Acetate              | 4.84  | 43   | 15369    | 3.575  | ug/l  | 99       |
| 44) Isopropyl Acetate          | 6.45  | 43   | 23552    | 3.343  | ug/l  | 97       |
| 45) 1,4-Dioxane                | 7.74  | 88   | 6746     | 92.303 | ug/l  | 98       |
| 46) Methyl methacrylate        | 7.77  | 41   | 10773    | 3.087  | ug/l  | 98       |
| 47) n-amyl Acetate             | 10.90 | 43   | 18379    | 2.900  | ug/l  | 96       |
| 48) t-1,3-Dichloropropene      | 9.04  | 75   | 12404    | 3.323  | ug/l  | 96       |
| 49) cis-1,3-Dichloropropene    | 8.43  | 75   | 14640    | 3.564  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane      | 9.21  | 97   | 11748    | 4.723  | ug/l  | 94       |
| 51) Ethyl methacrylate         | 9.18  | 69   | 16997    | 3.831  | ug/l  | 96       |
| 52) 1,3-Dichloropropane        | 9.37  | 76   | 19112    | 4.408  | ug/l  | 98       |
| 53) Dibromochloromethane       | 9.58  | 129  | 10203    | 4.075  | ug/l  | 98       |
| 54) 1,2-Dibromoethane          | 9.67  | 107  | 12145    | 4.711  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether  | 8.31  | 63   | 40591    | 17.900 | ug/l  | 98       |
| 56) Bromoform                  | 10.85 | 173  | 6565     | 3.444  | ug/l  | 96       |
| 58) 4-Methyl-2-Pentanone       | 8.64  | 43   | 80084    | 17.580 | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 60039    | 16.874 | ug/l  | 98       |
| 61) Tetrachloroethene          | 9.34  | 164  | 13614    | 5.983  | ug/l  | 96       |
| 62) Toluene                    | 8.78  | 91   | 51929    | 4.931  | ug/l  | 99       |
| 64) Chlorobenzene              | 10.13 | 112  | 32878    | 5.115  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 10056    | 4.287  | ug/l  | 94       |
| 66) Ethyl Benzene              | 10.25 | 91   | 57435    | 4.886  | ug/l  | 95       |
| 67) m/p-Xylenes                | 10.36 | 106  | 43065    | 9.897  | ug/l  | 95       |
| 68) o-Xylene                   | 10.69 | 106  | 21733    | 5.088  | ug/l  | 96       |
| 69) Styrene                    | 10.71 | 104  | 32908    | 4.441  | ug/l  | 98       |
| 70) Isopropylbenzene           | 11.02 | 105  | 54472    | 4.775  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 17865    | 4.363  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane     | 11.29 | 75   | 18287    | 5.248  | ug/l  | 87       |
| 73) Bromobenzene               | 11.26 | 156  | 15281    | 5.316  | ug/l  | 99       |
| 74) n-propylbenzene            | 11.36 | 91   | 60281    | 4.583  | ug/l  | 100      |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 37777    | 4.802  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 45487    | 4.697  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene    | 11.07 | 75   | 3249     | 2.392  | ug/l  | 90       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 41964    | 4.682  | ug/l  | 100      |
| 79) tert-butylbenzene          | 11.77 | 119  | 43995    | 4.709  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 46604    | 4.796  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 11.94 | 105  | 50989    | 4.588  | ug/l  | 100      |
| 82) p-Isopropyltoluene         | 12.06 | 119  | 46207    | 4.553  | ug/l  | 98       |
| 83) 1,3-Dichlorobenzene        | 12.02 | 146  | 25655    | 4.992  | ug/l  | 97       |
| 84) 1,4-Dichlorobenzene        | 12.10 | 146  | 24849    | 4.837  | ug/l  | 98       |
| 85) n-Butylbenzene             | 12.38 | 91   | 36897    | 4.019  | ug/l  | 98       |
| 86) Hexachloroethane           | 12.59 | 117  | 5744     | 3.432  | ug/l  | 95       |
| 87) 1,2-Dichlorobenzene        | 12.39 | 146  | 25582    | 4.945  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 3475     | 3.708  | ug/l  | 92       |
| 89) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 16278    | 4.458  | ug/l  | 99       |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 8370     | 4.614  | ug/l  | 98       |
| 91) Naphthalene                | 13.83 | 128  | 47268    | 4.012  | ug/l  | 98       |
| 92) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 16688    | 4.519  | ug/l  | 99       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\  
Data File : VX010976.D  
Acq On : 18 Jul 2019 22:22  
Operator : JC/SP  
Sample : VSTDICC005  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

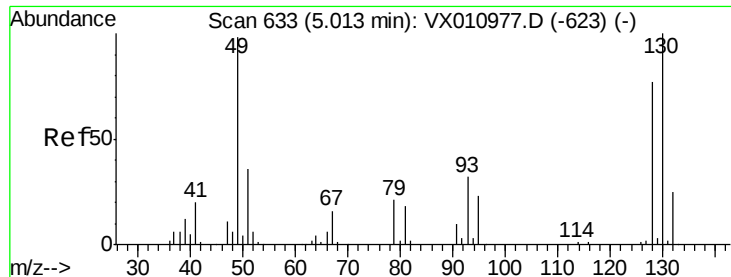
Quant Time: Jul 19 03:18:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Jul 19 03:13:22 2019  
Response via : Initial Calibration

| 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: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampleId :

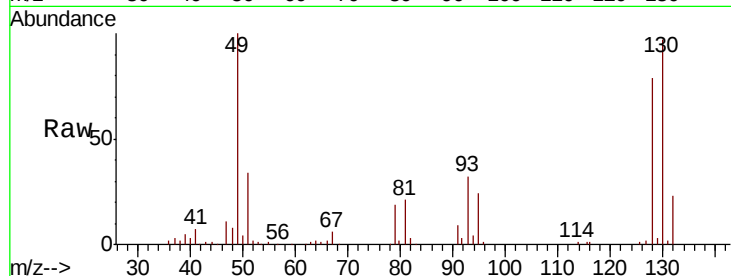
Tot Ion:128 Resp: 40759

Ion Ratio Lower Upper

128 100

49 132.9 0.0 343.5

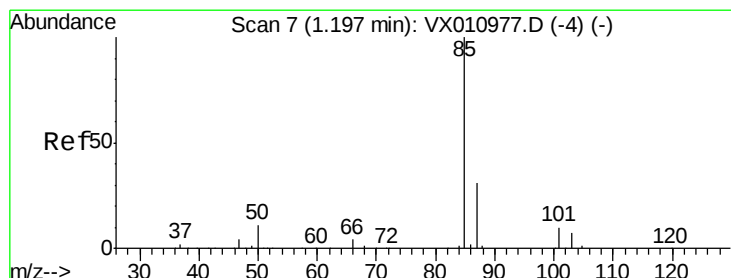
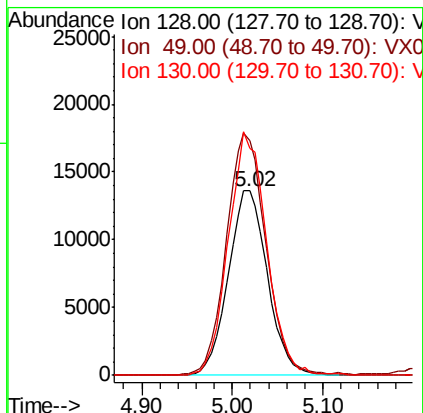
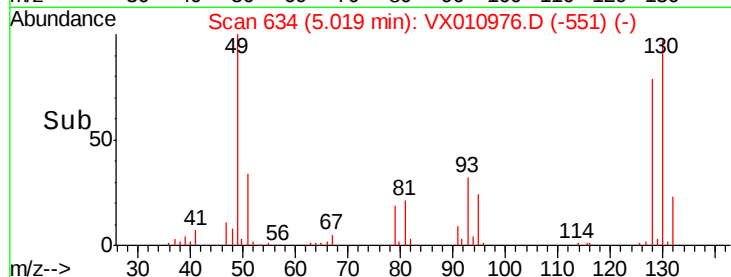
130 128.6 0.0 324.7



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: 4.326 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX010976.D

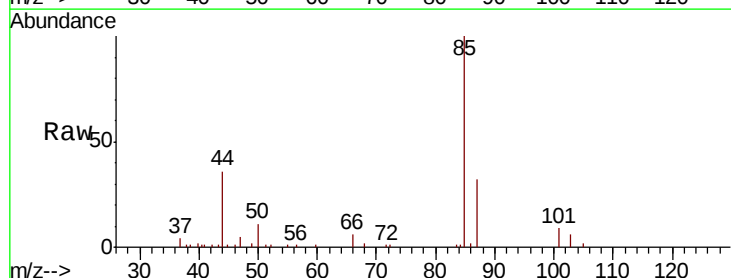
Acq: 18 Jul 2019 22:22

Tgt Ion: 85 Resp: 9946

Ion Ratio Lower Upper

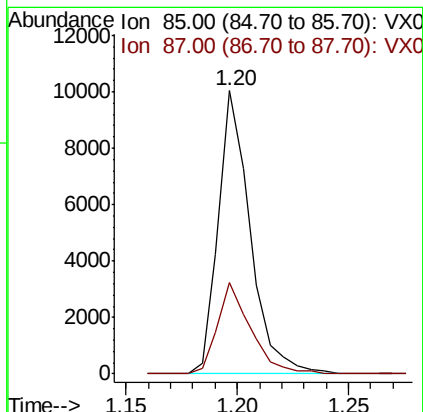
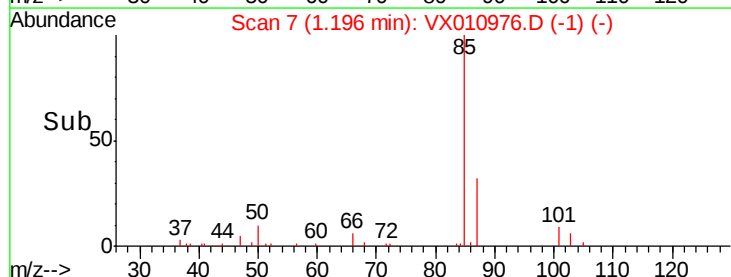
85 100

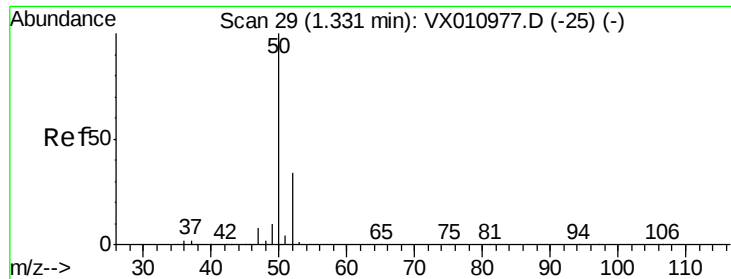
87 32.2 15.4 46.1



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 3.774 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

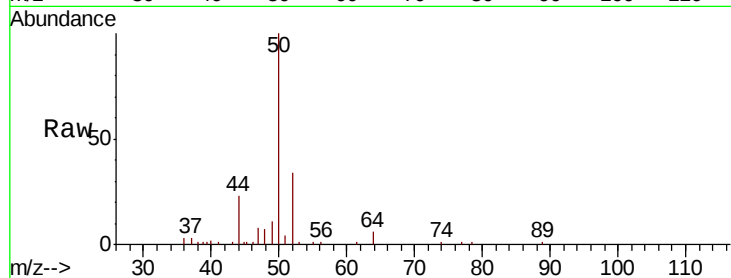
ClientSampleId :

Tot Ion: 50 Resp: 10697

Ion Ratio Lower Upper

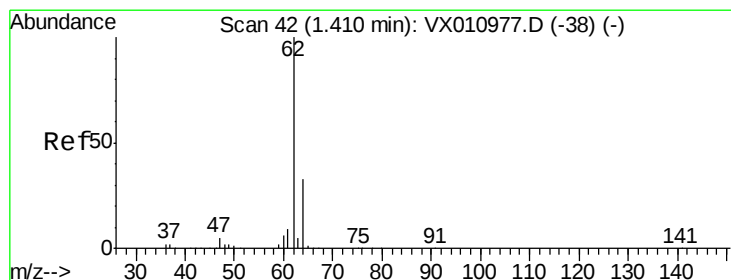
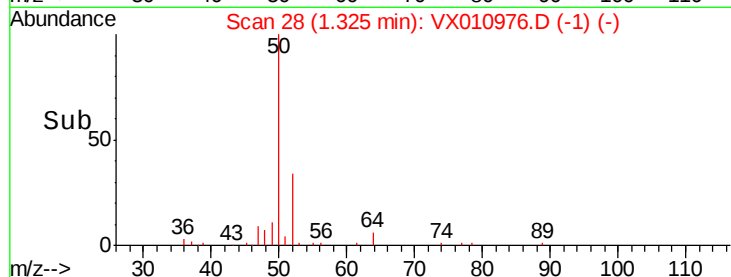
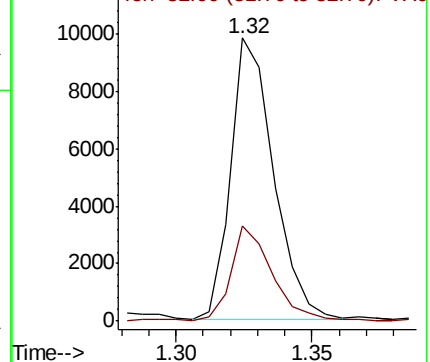
50 100

52 33.8 27.3 40.9



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#4

Vinyl Chloride

Concen: 3.819 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010976.D

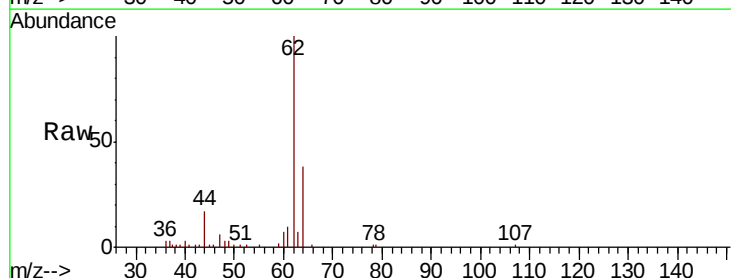
Acq: 18 Jul 2019 22:22

Tgt Ion: 62 Resp: 10826

Ion Ratio Lower Upper

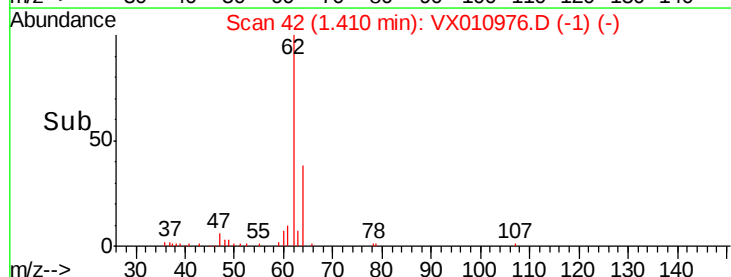
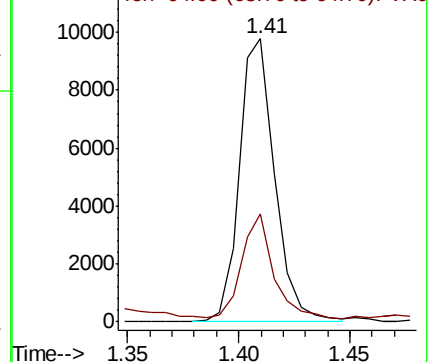
62 100

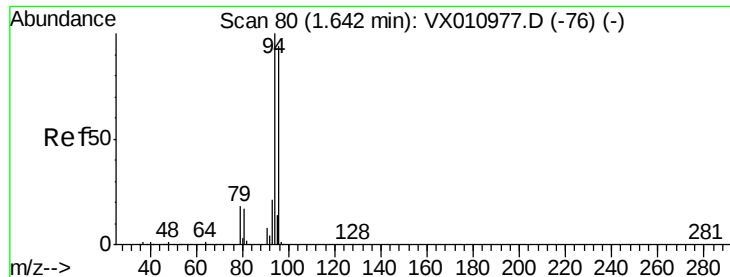
64 36.8 26.8 40.2



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0





#5

Bromomethane

Concen: 3.615 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

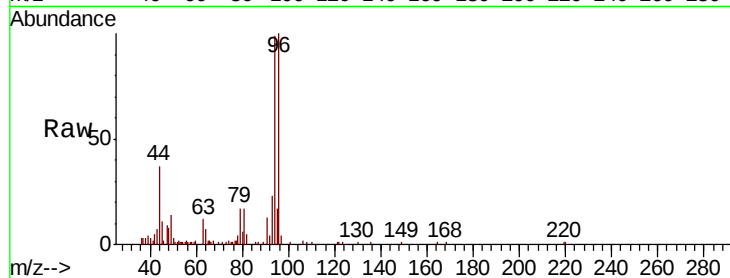
ClientSampleId :

Tot Ion: 94 Resp: 6613

Ion Ratio Lower Upper

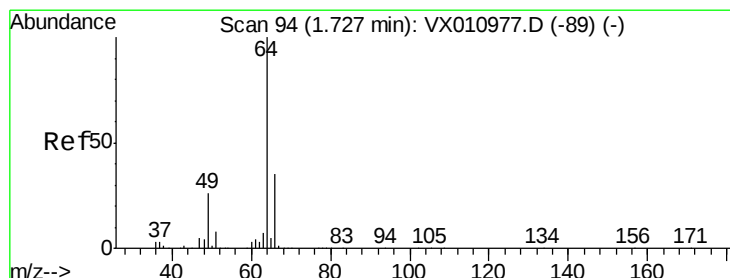
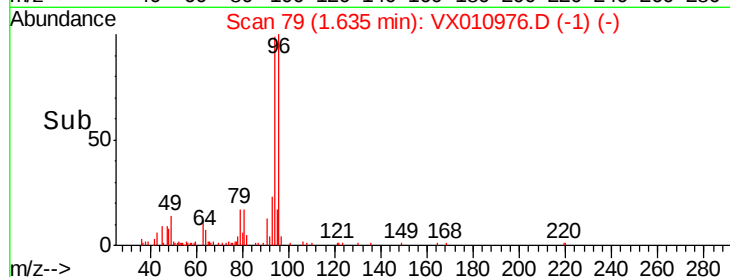
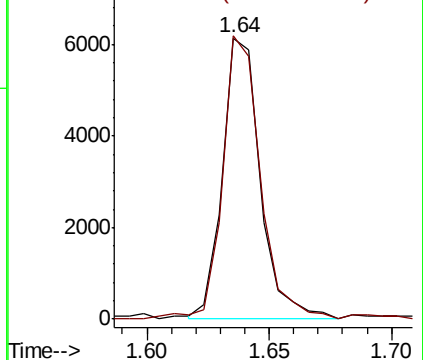
94 100

96 100.7 75.4 113.2



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#6

Chloroethane

Concen: 3.912 ug/l

RT: 1.72 min Scan# 93

Delta R.T. -0.01 min

Lab File: VX010976.D

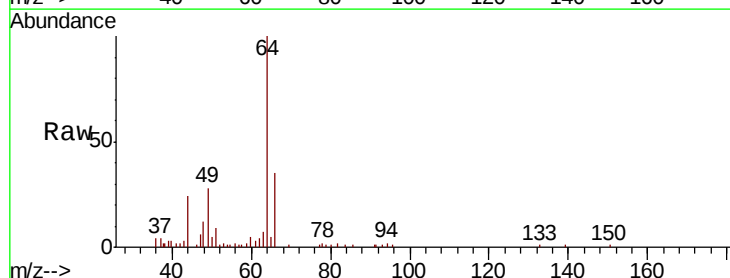
Acq: 18 Jul 2019 22:22

Tgt Ion: 64 Resp: 7110

Ion Ratio Lower Upper

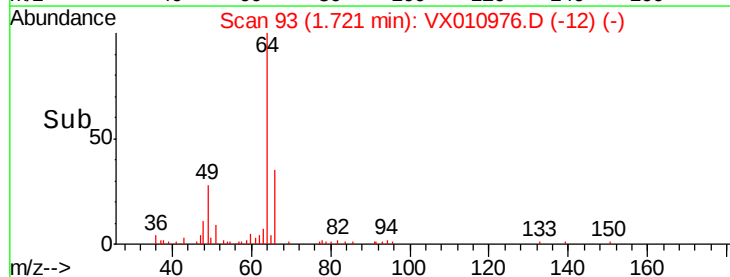
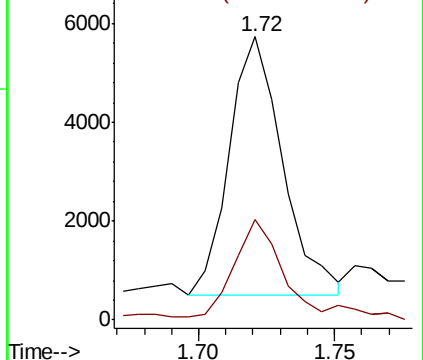
64 100

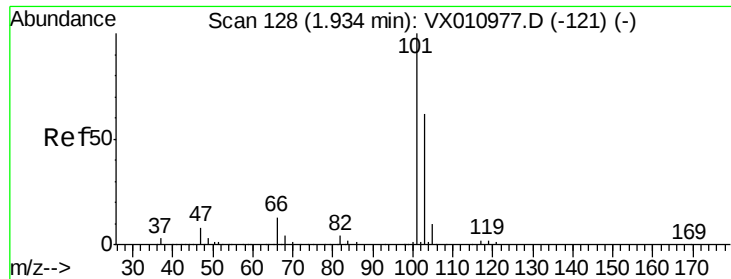
66 37.6 28.1 42.1



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



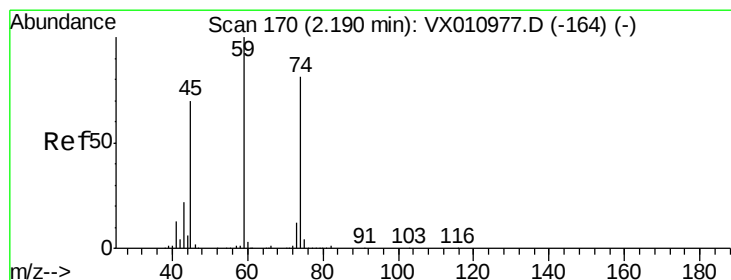
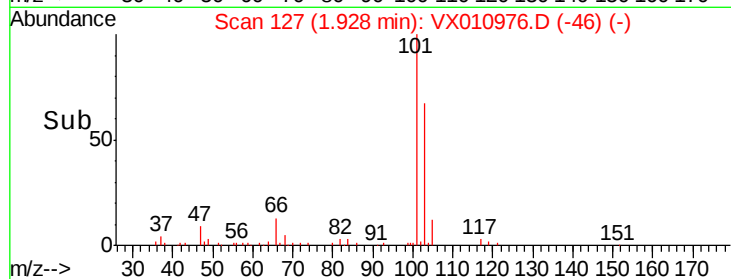
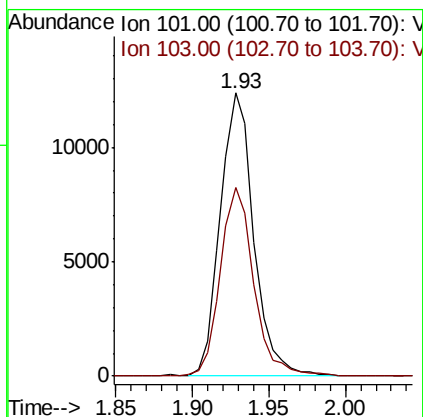
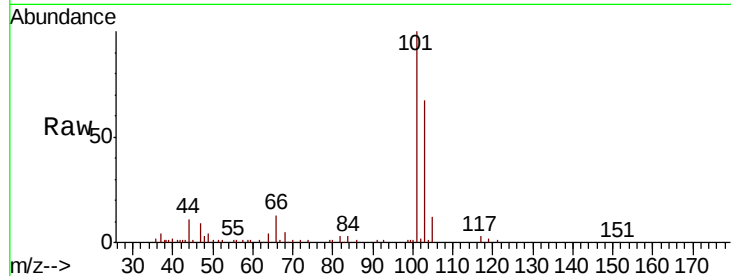


#7

Trichlorofluoromethane  
 Concen: 5.062 ug/l  
 RT: 1.93 min Scan# 127  
 Delta R.T. -0.01 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Instrument :  
 MSVOA\_X  
 ClientSampled :

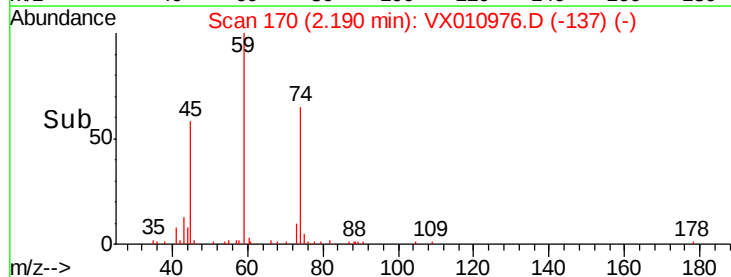
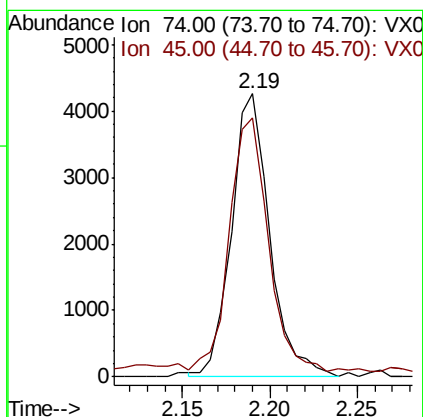
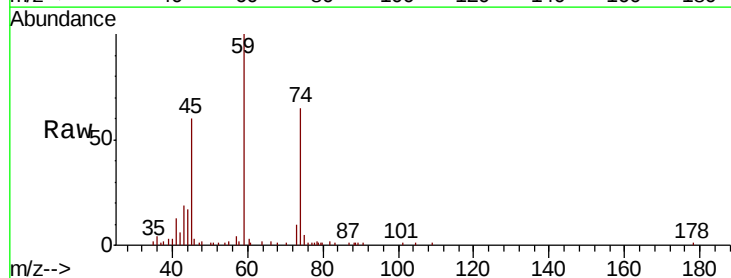
Tot Ion:101 Resp: 18810  
 Ion Ratio Lower Upper  
 101 100  
 103 66.6 49.6 74.4

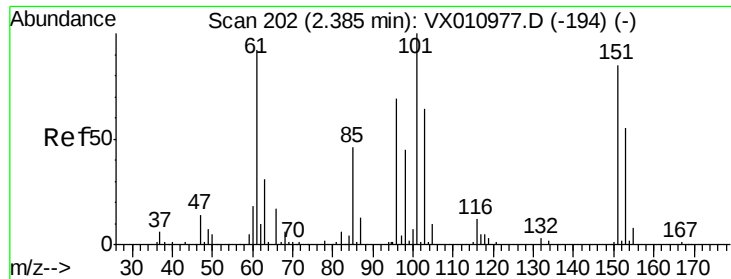


#8

Diethyl Ether  
 Concen: 4.015 ug/l  
 RT: 2.19 min Scan# 170  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Tgt Ion: 74 Resp: 6474  
 Ion Ratio Lower Upper  
 74 100  
 45 97.0 18.3 164.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.716 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.01 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampleId :

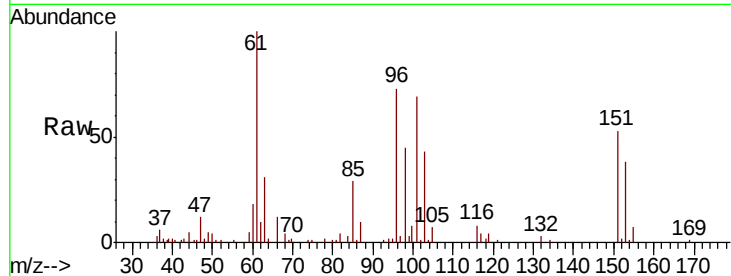
Tot Ion:101 Resp: 10553

Ion Ratio Lower Upper

101 100

85 44.4 0.0 89.8

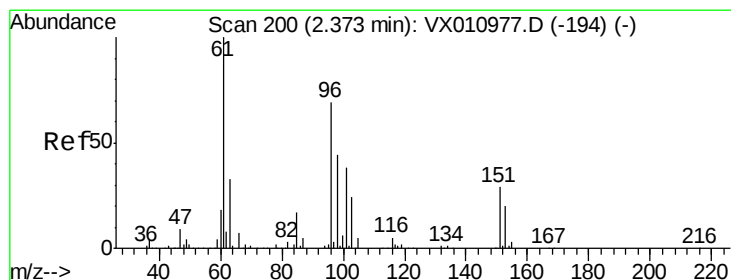
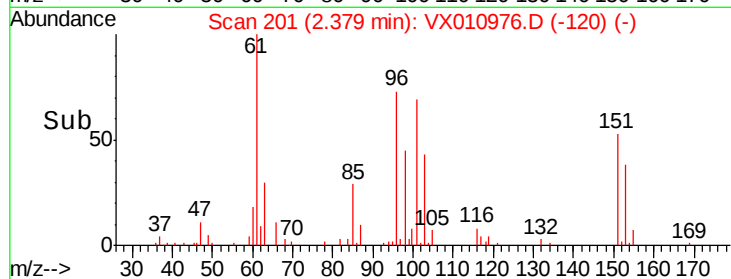
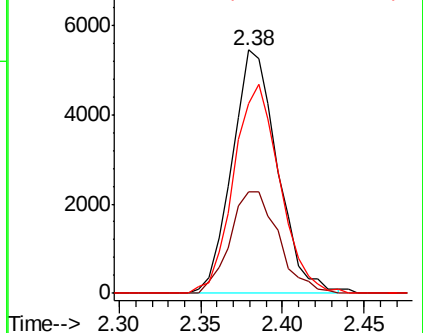
151 87.4 0.0 172.2



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: 4.838 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

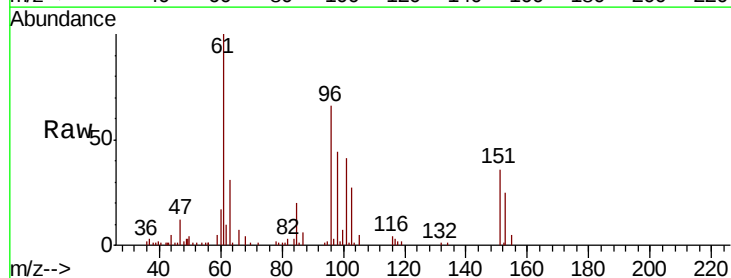
Tgt Ion: 96 Resp: 10883

Ion Ratio Lower Upper

96 100

61 149.9 115.9 173.9

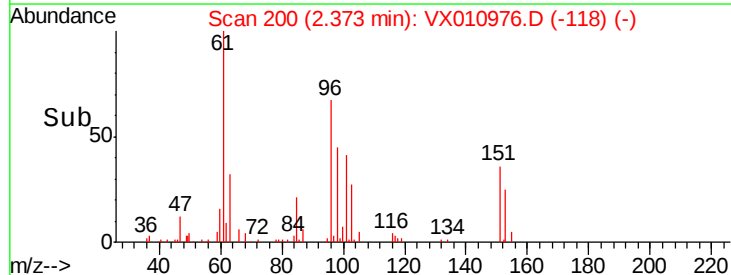
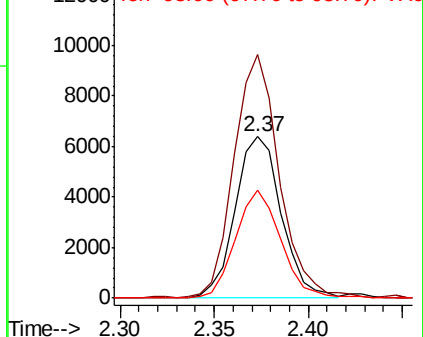
98 66.9 50.6 75.8

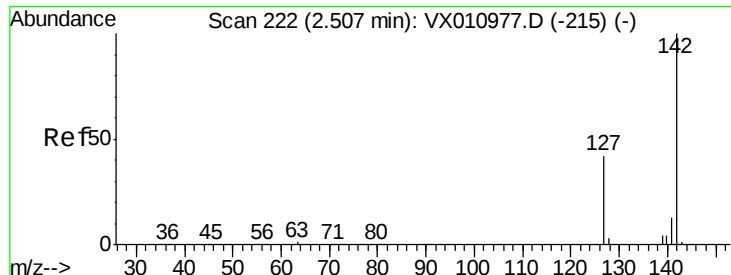


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

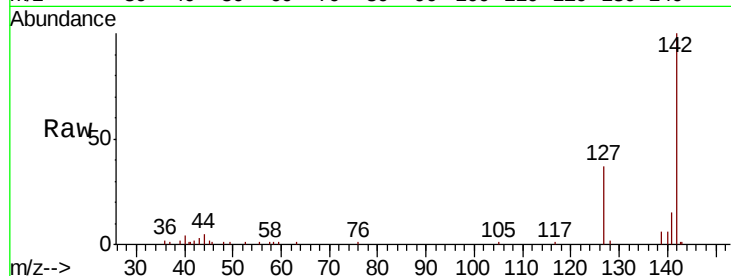




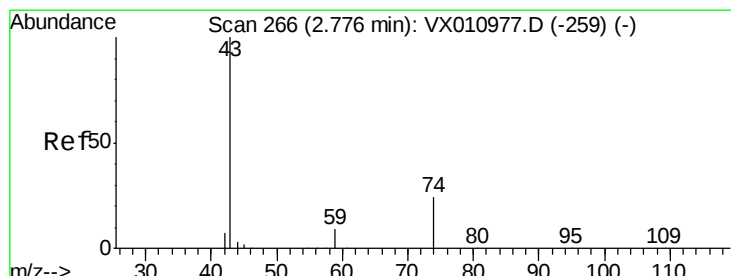
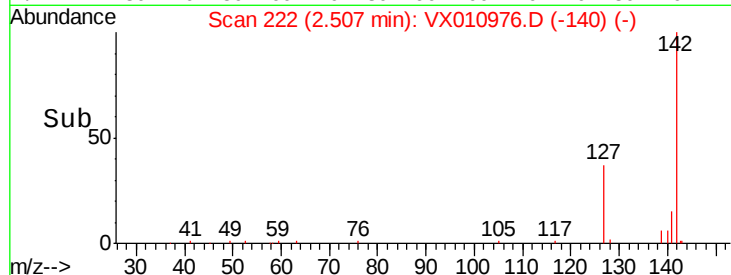
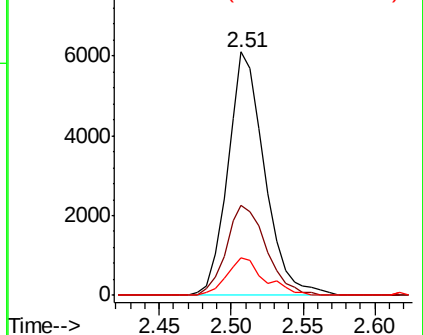
#11  
Methvl Iodide  
Concen: 4.276 ug/l  
RT: 2.51 min Scan# 222  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:142 Resp: 10856  
Ion Ratio Lower Upper  
142 100  
127 36.4 20.7 62.1  
141 15.1 6.7 20.0

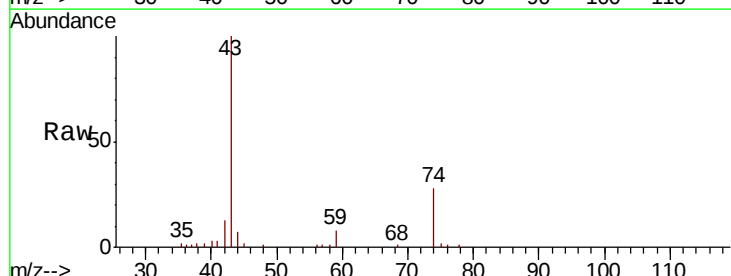


Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 141.00 (140.70 to 141.70): V

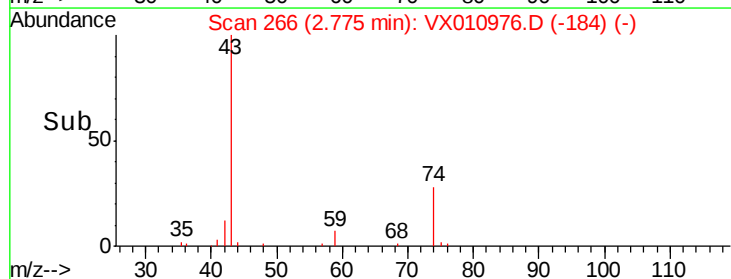
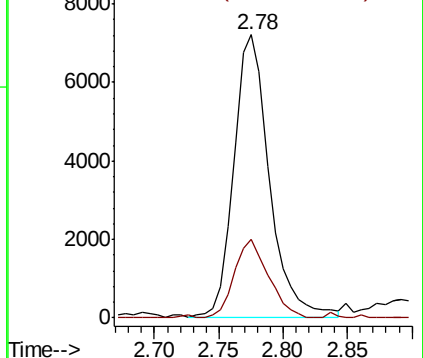


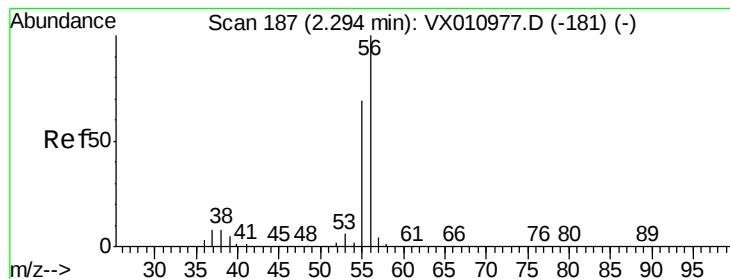
#12  
Methyl Acetate  
Concen: 3.441 ug/l  
RT: 2.78 min Scan# 266  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 43 Resp: 13929  
Ion Ratio Lower Upper  
43 100  
74 27.2 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 74.00 (73.70 to 74.70): VX0





#13

Acrolein

Concen: 16.942 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

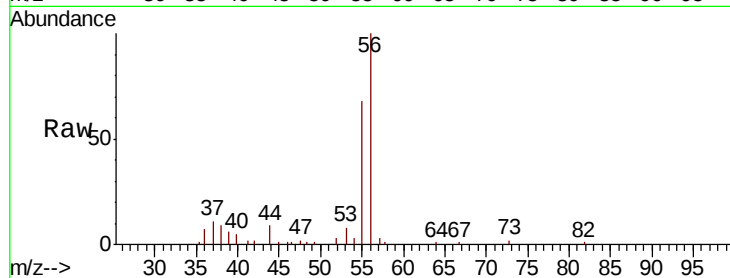
ClientSampleId :

Tot Ion: 56 Resp: 9311

Ion Ratio Lower Upper

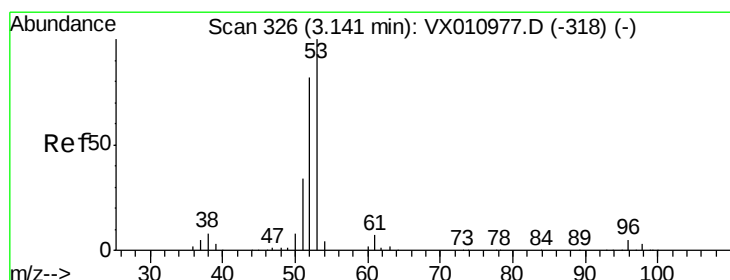
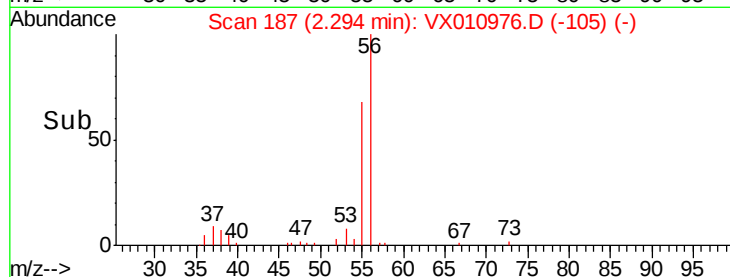
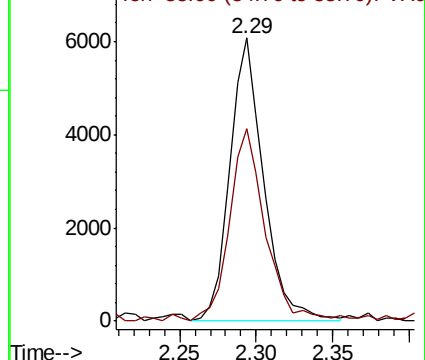
56 100

55 68.9 56.1 84.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Acrylonitrile

Concen: 16.499 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

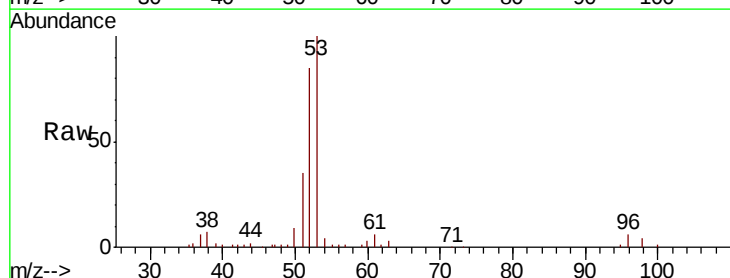
Tgt Ion: 53 Resp: 28403

Ion Ratio Lower Upper

53 100

52 85.0 41.1 123.4

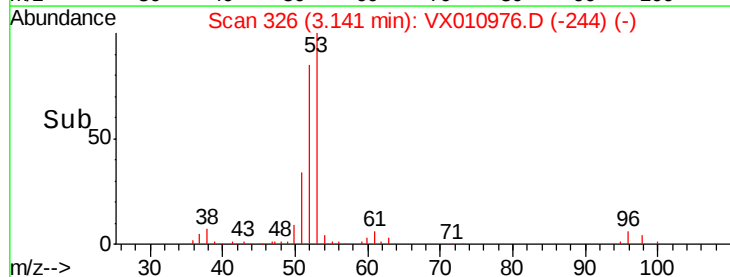
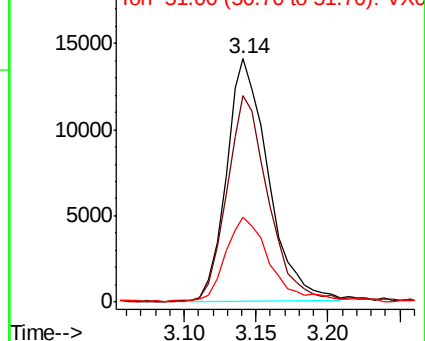
51 37.5 17.8 53.3

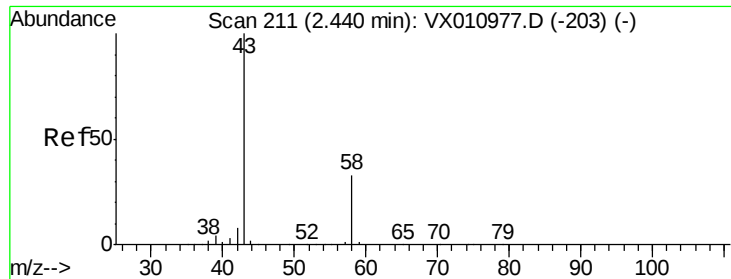


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#15

Acetone

Concen: 16.784 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

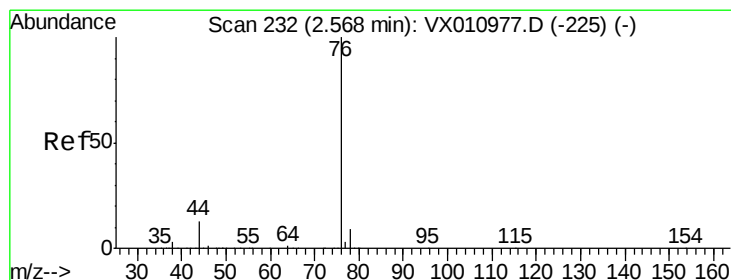
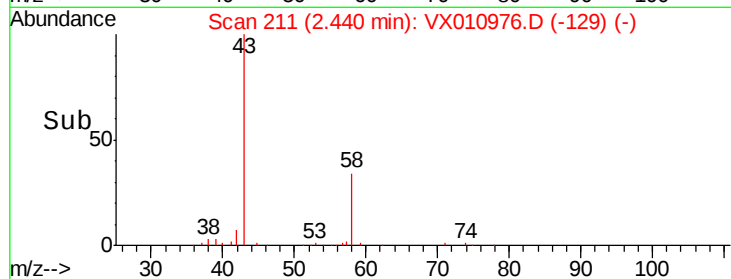
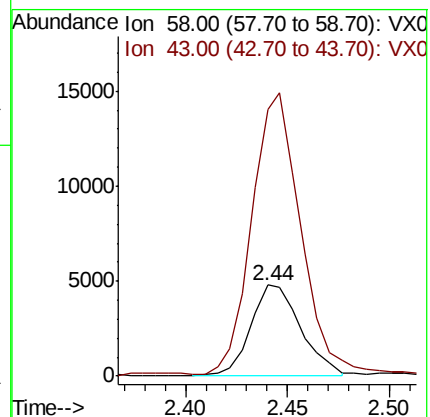
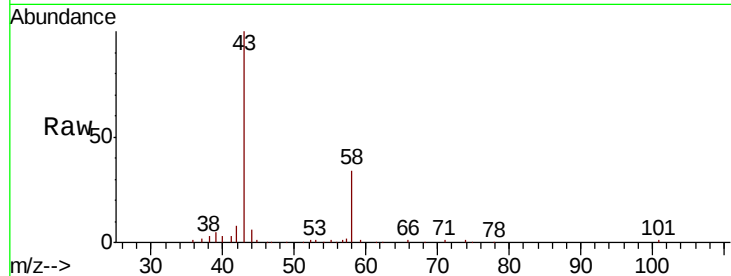
ClientSampleId :

Tot Ion: 58 Resp: 8216

Ion Ratio Lower Upper

58 100

43 296.1 243.8 365.6



#16

Carbon Disulfide

Concen: 4.126 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX010976.D

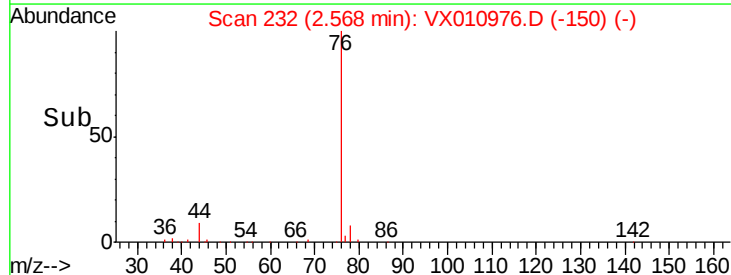
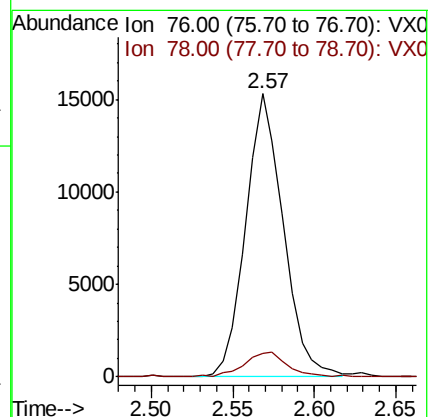
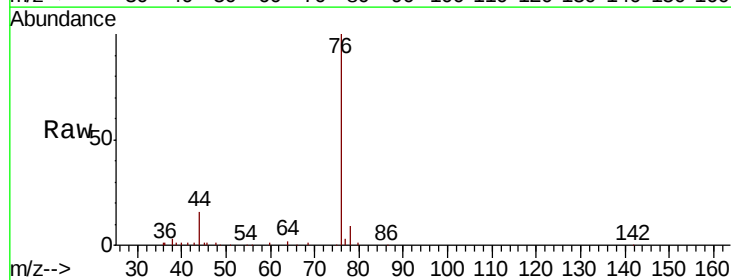
Acq: 18 Jul 2019 22:22

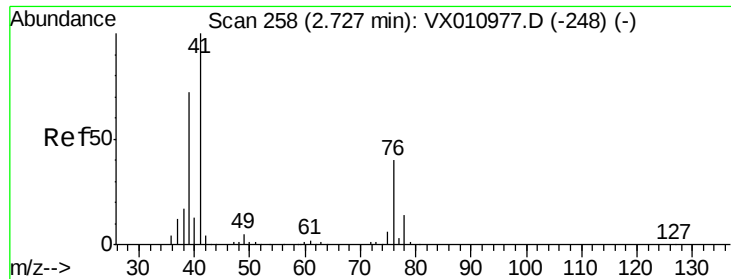
Tgt Ion: 76 Resp: 24683

Ion Ratio Lower Upper

76 100

78 8.2 7.3 10.9

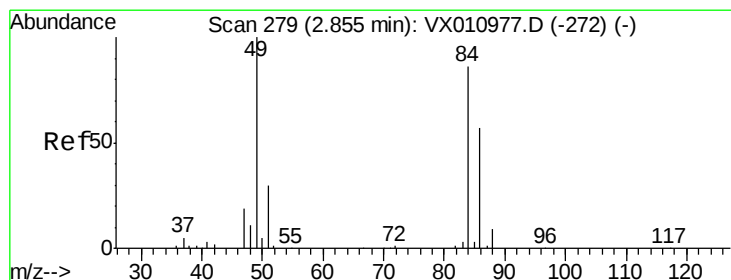
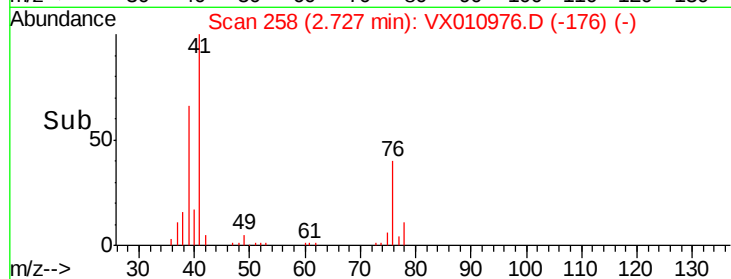
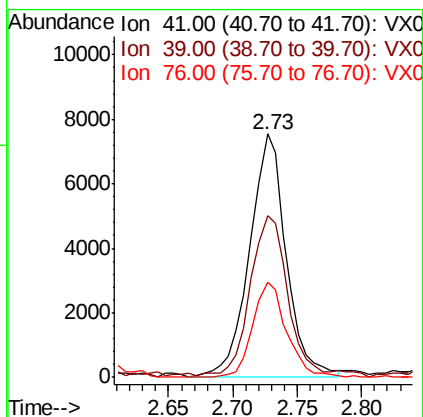
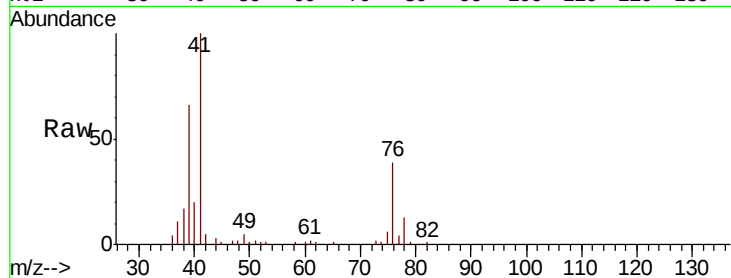




#17  
Allvl chloride  
Concen: 3.005 ug/l  
RT: 2.73 min Scan# 258  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

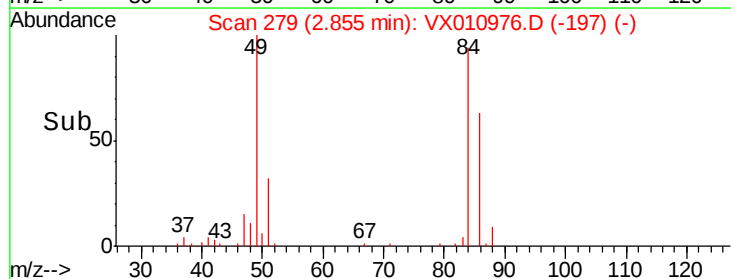
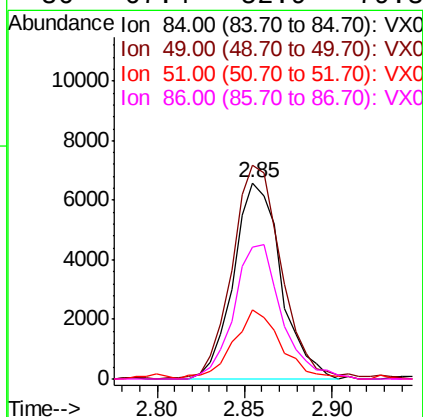
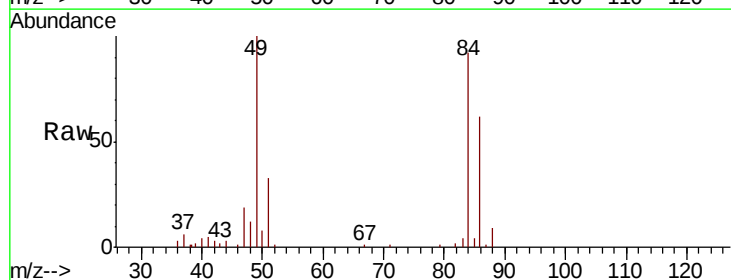
Instrument :  
MSVOA\_X  
ClientSampleId :

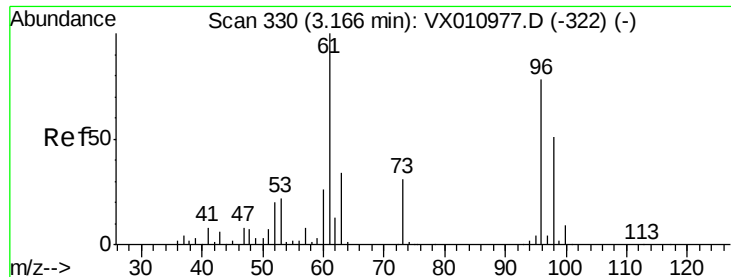
Tot Ion: 41 Resp: 14884  
Ion Ratio Lower Upper  
41 100  
39 64.7 36.1 108.3  
76 39.1 20.2 60.5



#18  
Methylene Chloride  
Concen: 4.650 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 84 Resp: 12452  
Ion Ratio Lower Upper  
84 100  
49 107.4 93.2 139.8  
51 34.4 28.6 42.8  
86 67.4 52.9 79.3

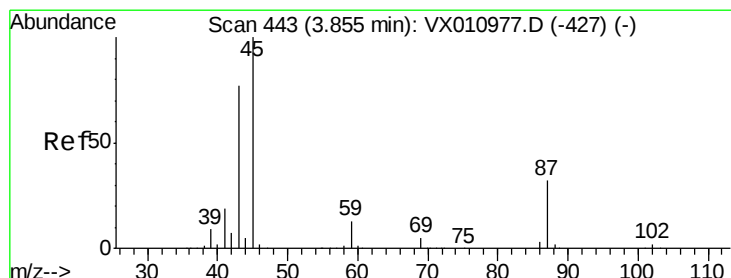
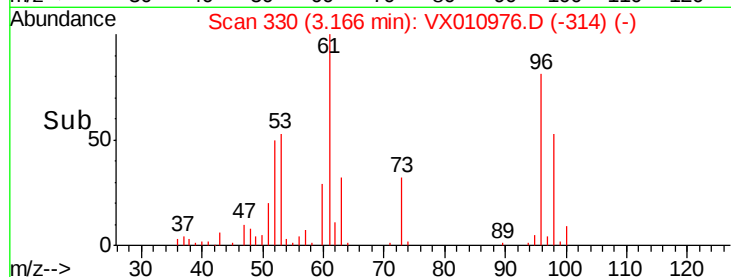
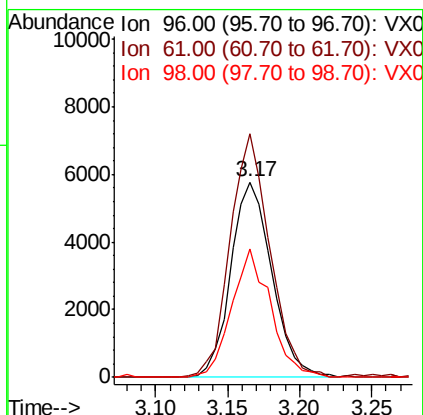
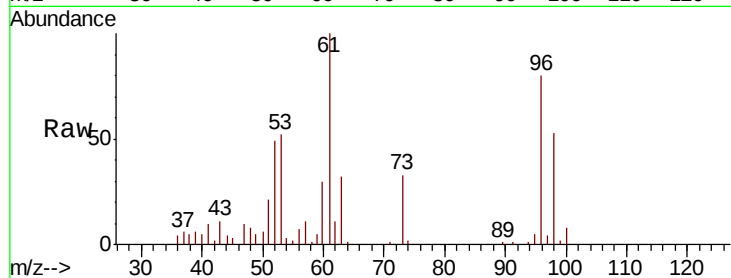




#19  
trans-1,2-Dichloroethene  
Concen: 4.777 ug/l  
RT: 3.17 min Scan# 330  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

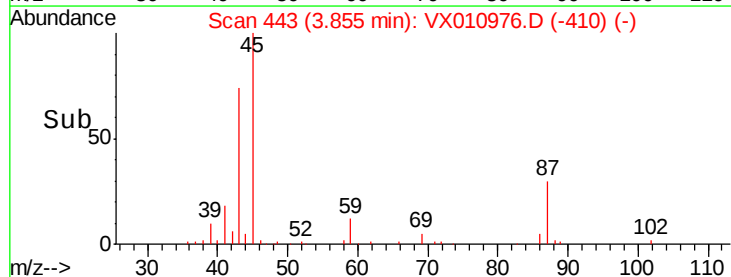
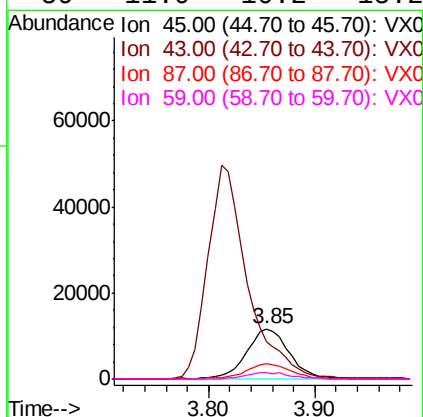
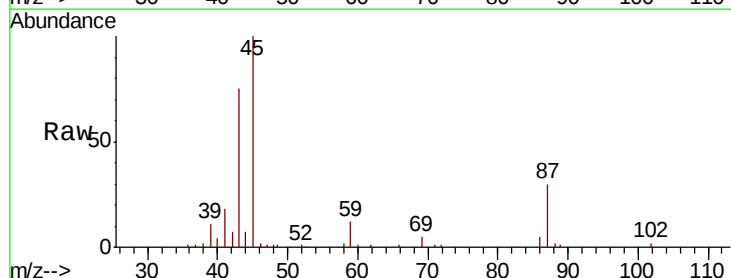
Instrument :  
MSVOA\_X  
ClientSampled :

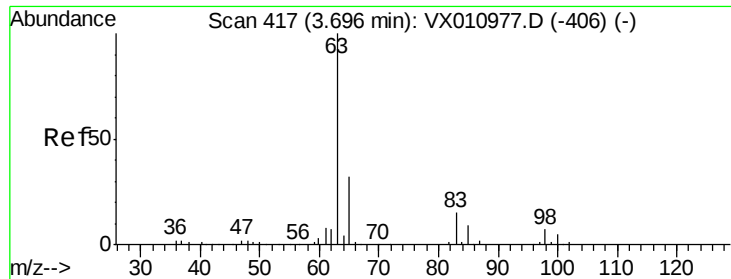
Tot Ion: 96 Resp: 11458  
Ion Ratio Lower Upper  
96 100  
61 124.7 102.2 153.4  
98 65.8 52.2 78.2



#20  
Diisopropyl ether  
Concen: 3.324 ug/l  
RT: 3.85 min Scan# 443  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 45 Resp: 32735  
Ion Ratio Lower Upper  
45 100  
43 72.9 61.5 92.3  
87 30.3 25.4 38.2  
59 11.9 10.2 15.2





#21

1,1-Dichloroethane

Concen: 3.835 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampled :

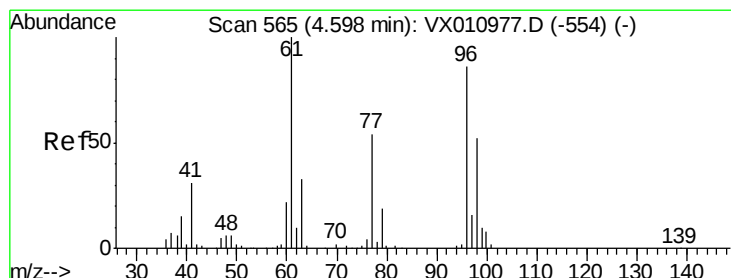
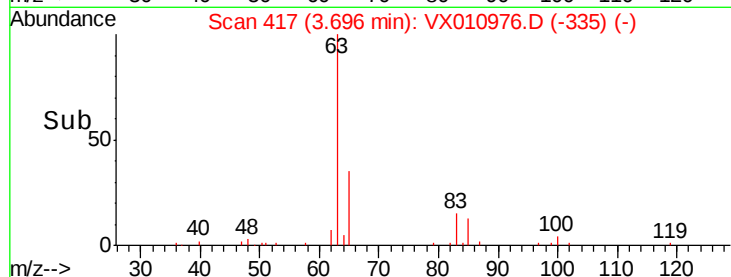
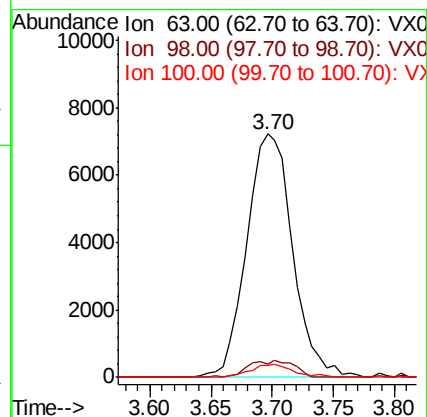
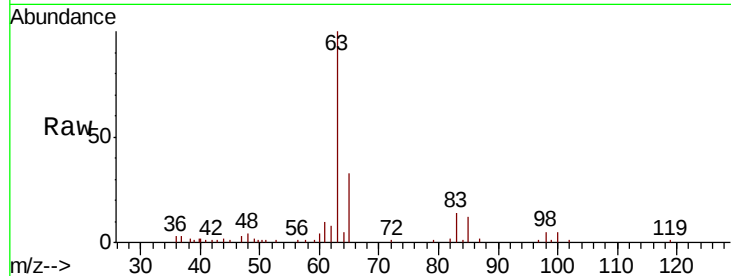
Tot Ion: 63 Resp: 18802

Ion Ratio Lower Upper

63 100

98 5.3 3.8 11.2

100 5.0 2.5 7.4



#22

cis-1,2-Dichloroethene

Concen: 4.645 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

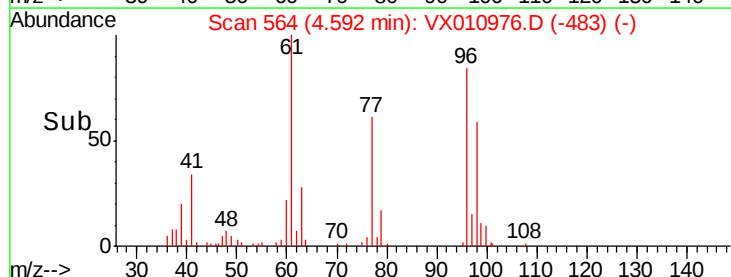
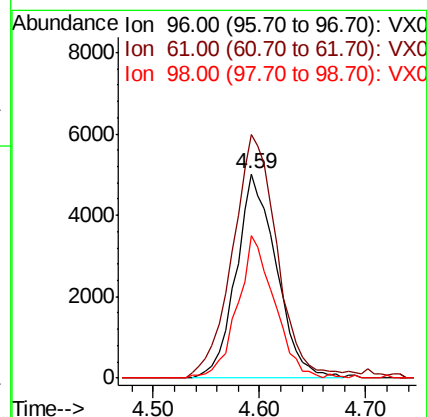
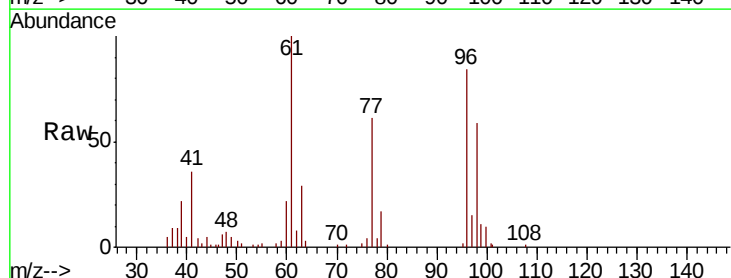
Tgt Ion: 96 Resp: 13245

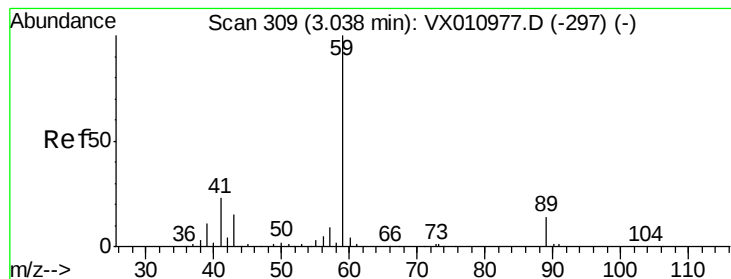
Ion Ratio Lower Upper

96 100

61 131.1 102.9 154.3

98 63.9 50.9 76.3





#23

tert-Butyl Alcohol

Concen: 26.379 ug/l

RT: 3.04 min Scan# 310

Delta R.T. 0.01 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

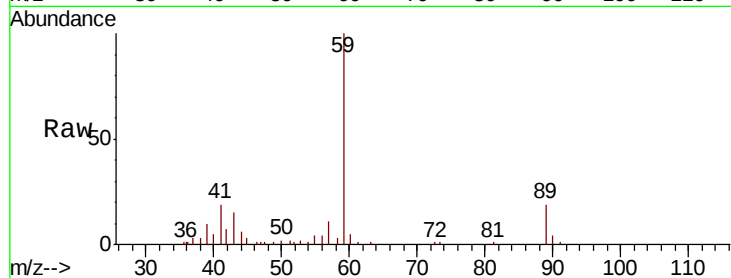
ClientSampleId :

Tot Ion: 59 Resp: 19893

Ion Ratio Lower Upper

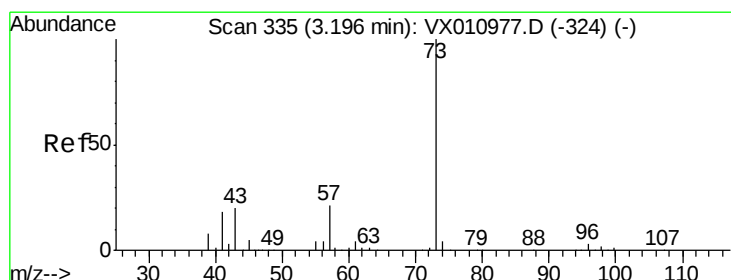
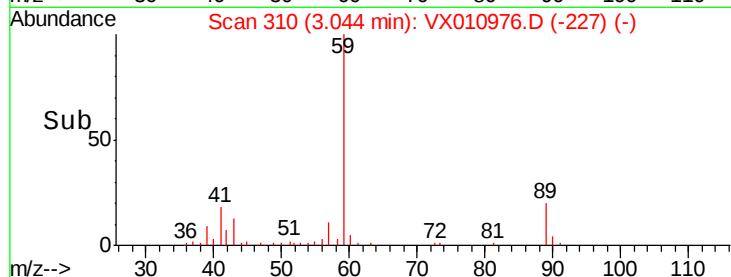
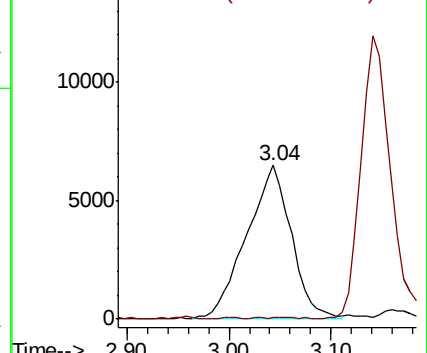
59 100

52 0.6 0.2 0.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#24

Methyl tert-Butyl Ether

Concen: 4.024 ug/l

RT: 3.20 min Scan# 335

Delta R.T. -0.00 min

Lab File: VX010976.D

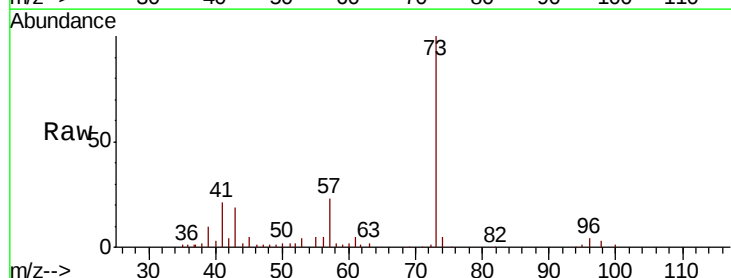
Acq: 18 Jul 2019 22:22

Tgt Ion: 73 Resp: 34163

Ion Ratio Lower Upper

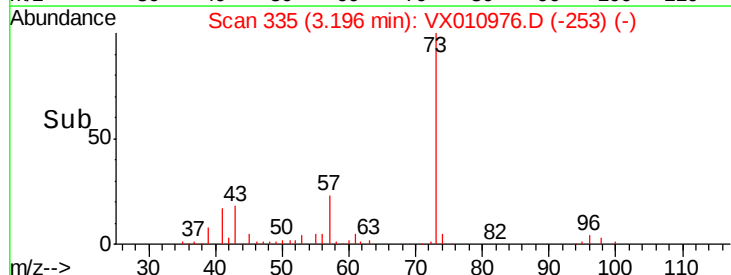
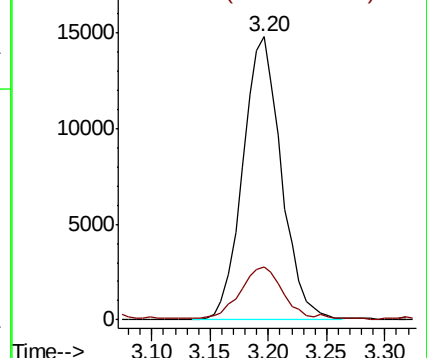
73 100

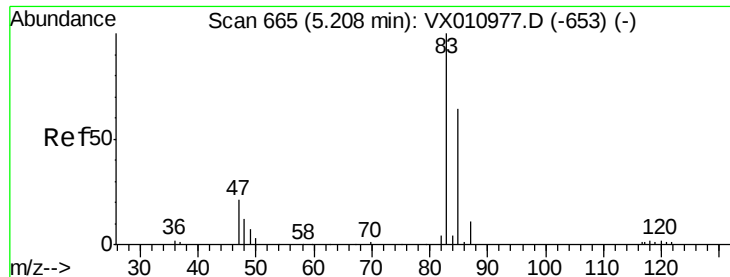
43 20.0 15.8 23.6



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#25

Chloroform

Concen: 4.578 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

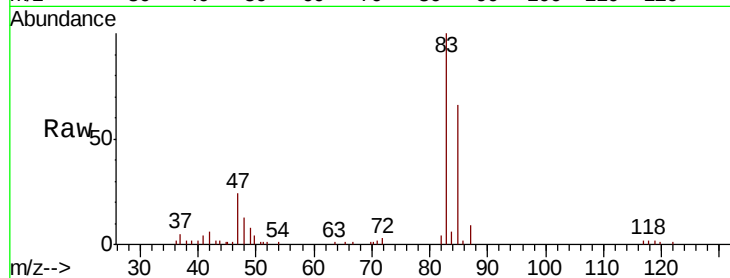
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 83 Resp: 21060

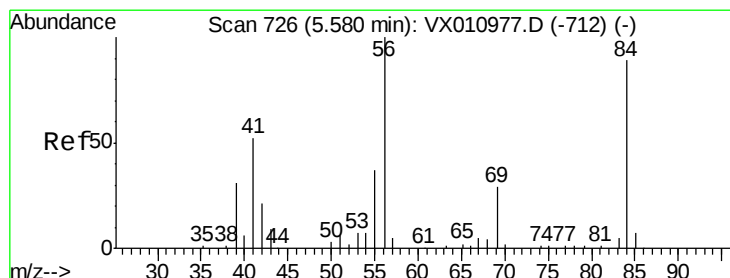
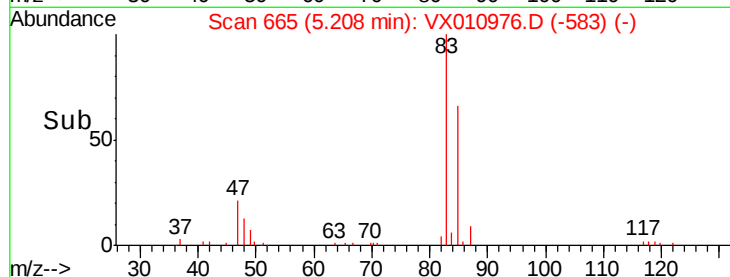
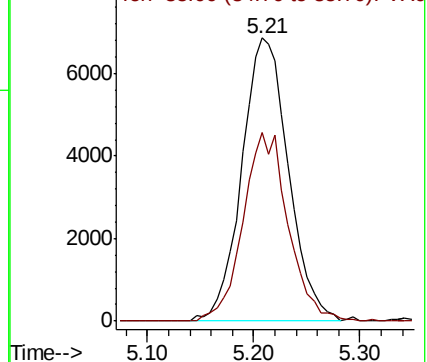
Ion Ratio Lower Upper

83 100

85 66.5 50.9 76.3



Abundance Ion 83.00 (82.70 to 83.70): VX0  
Ion 85.00 (84.70 to 85.70): VX0



#26

Cyclohexane

Concen: 3.929 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

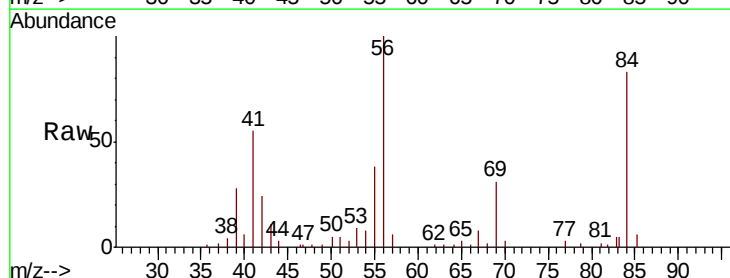
Tgt Ion: 56 Resp: 17849

Ion Ratio Lower Upper

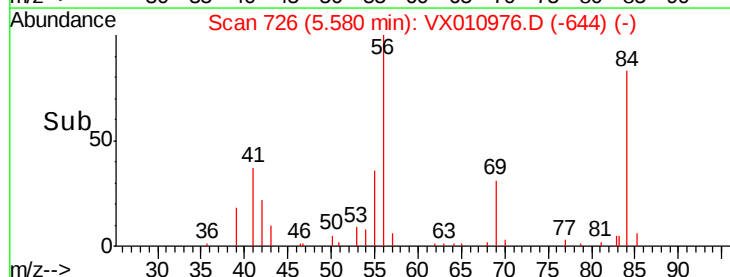
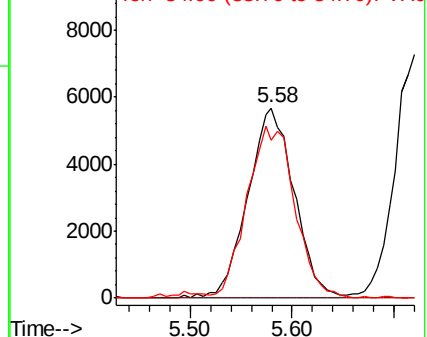
56 100

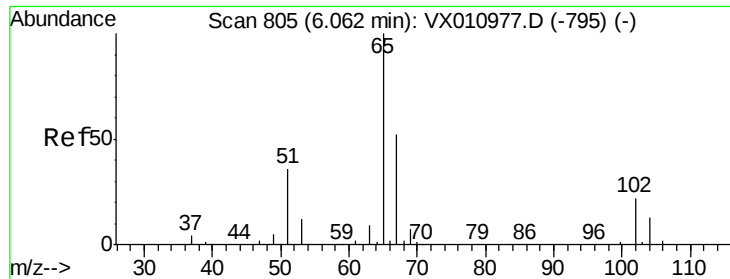
89 0.0 0.0 0.0

84 50.4 73.0 109.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 89.00 (88.70 to 89.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 24.812 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

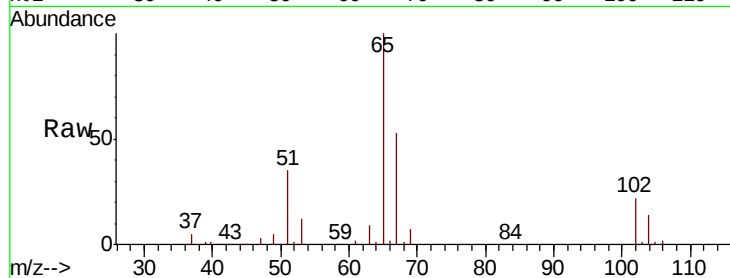
ClientSampleId :

Tot Ion: 65 Resp: 80722

Ion Ratio Lower Upper

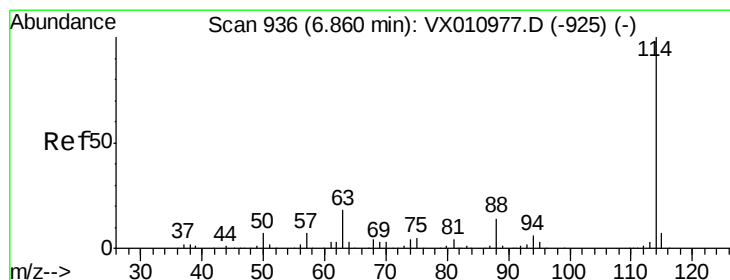
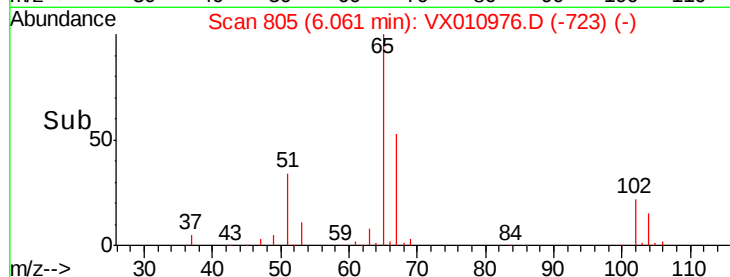
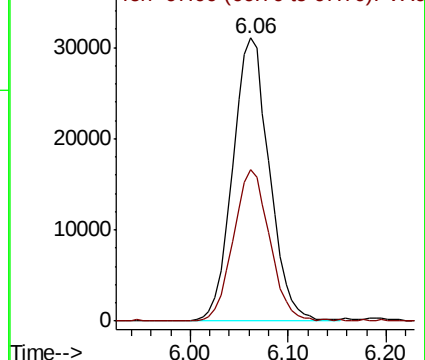
65 100

67 52.7 41.7 62.5



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

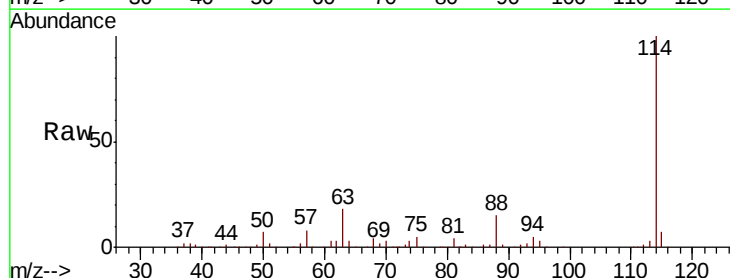
Tgt Ion: 114 Resp: 221910

Ion Ratio Lower Upper

114 100

63 17.8 14.6 22.0

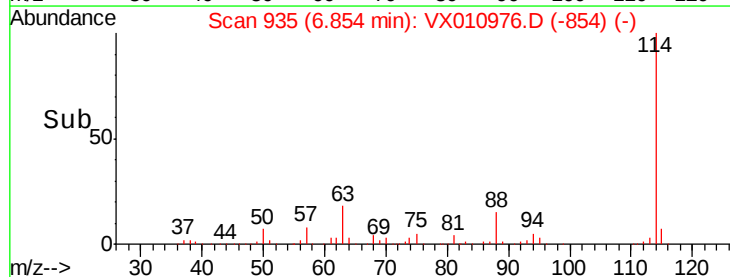
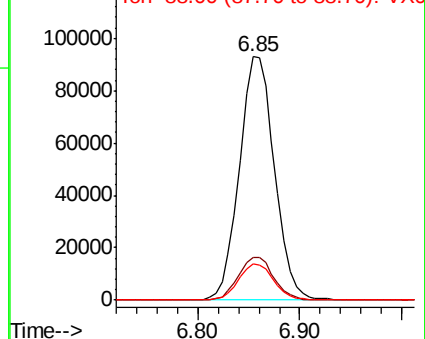
88 14.8 11.8 17.8

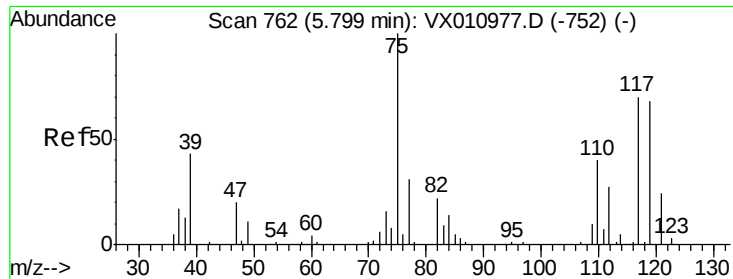


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

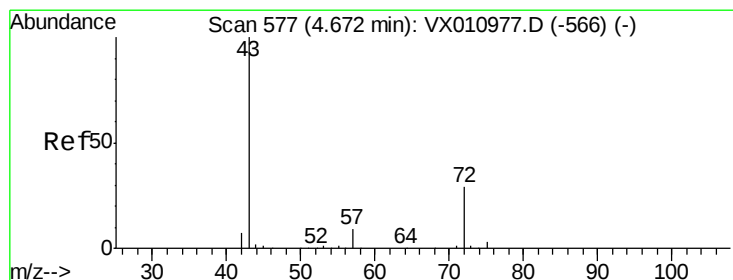
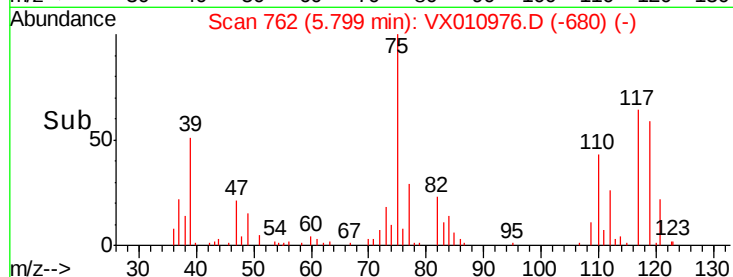
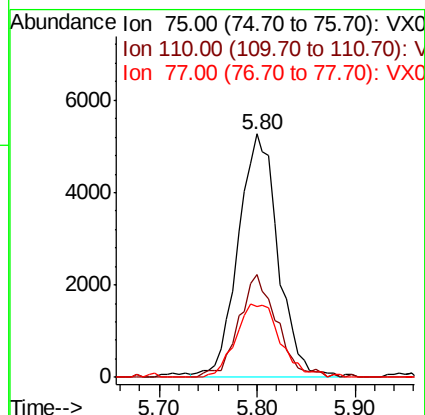
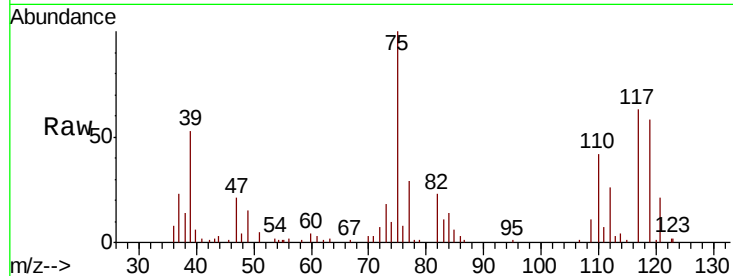




#29  
 1,1-Dichloropropene  
 Concen: 4.606 ug/l  
 RT: 5.80 min Scan# 762  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

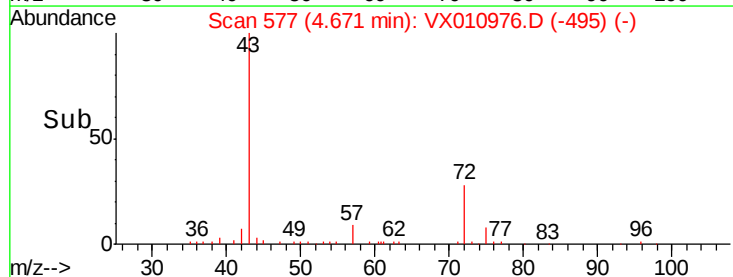
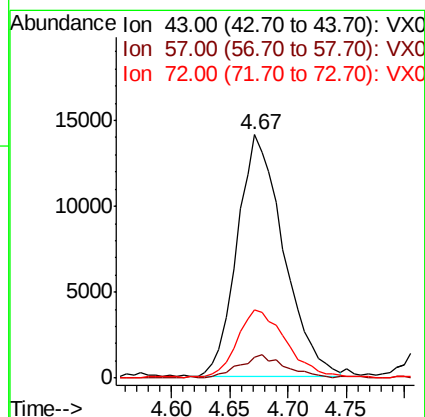
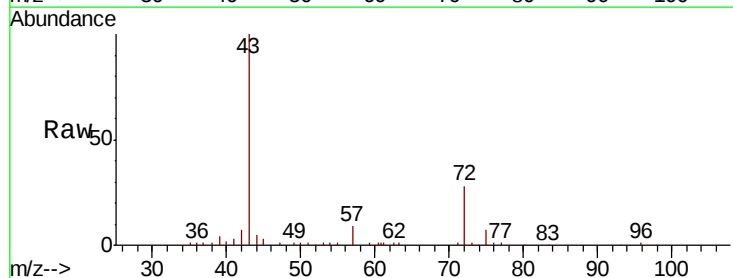
Instrument :  
 MSVOA\_X  
 ClientSampleId :

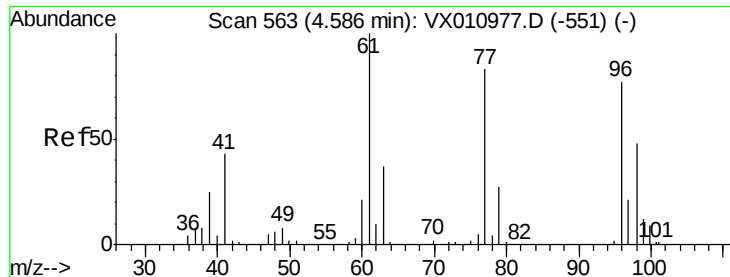
Tot Ion: 75 Resp: 14871  
 Ion Ratio Lower Upper  
 75 100  
 110 38.8 0.0 79.8  
 77 17.5 0.0 62.2



#30  
 2-Butanone  
 Concen: 16.356 ug/l  
 RT: 4.67 min Scan# 577  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Tgt Ion: 43 Resp: 38925  
 Ion Ratio Lower Upper  
 43 100  
 57 9.7 6.8 10.2  
 72 30.1 23.2 34.8

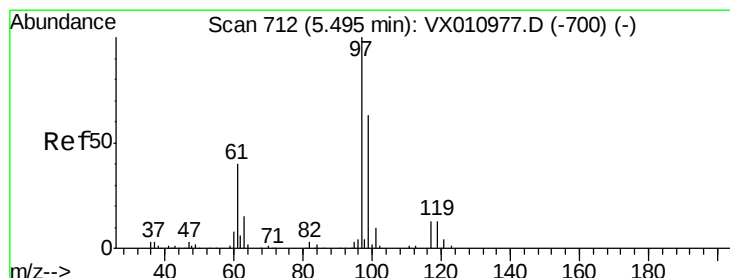
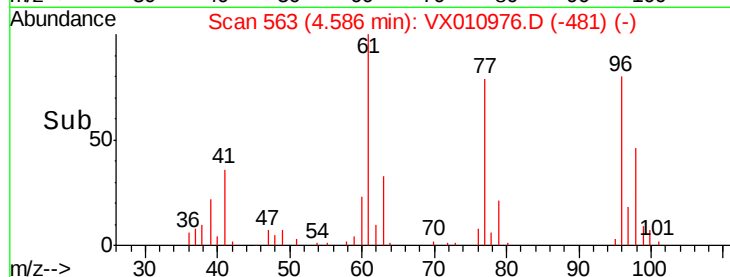
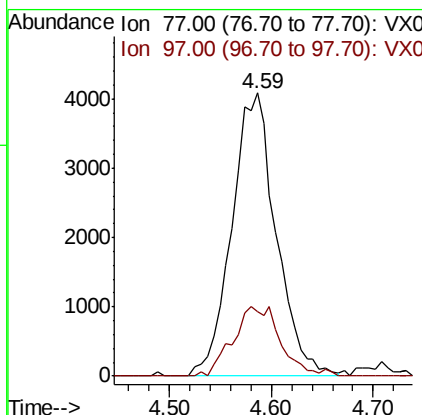
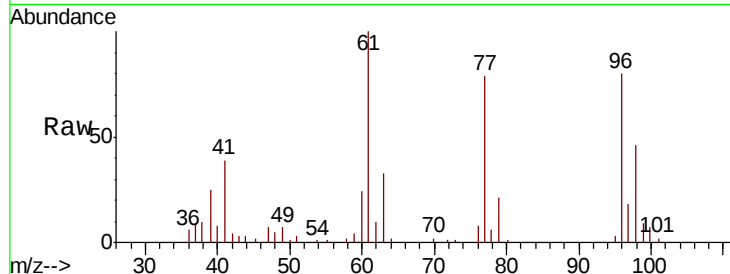




#31  
 2,2-Dichloropropane  
 Concen: 3.620 ug/l  
 RT: 4.59 min Scan# 563  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

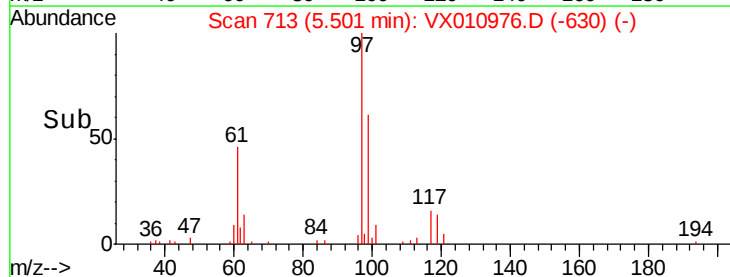
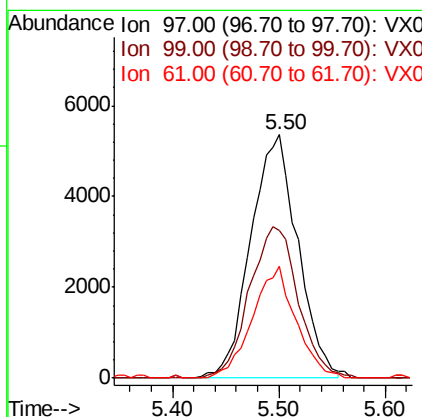
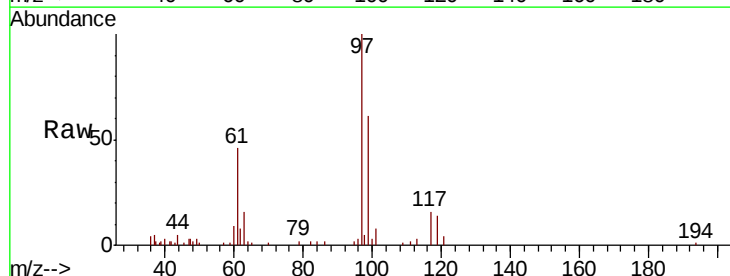
Instrument :  
 MSVOA\_X  
 ClientSampleId :

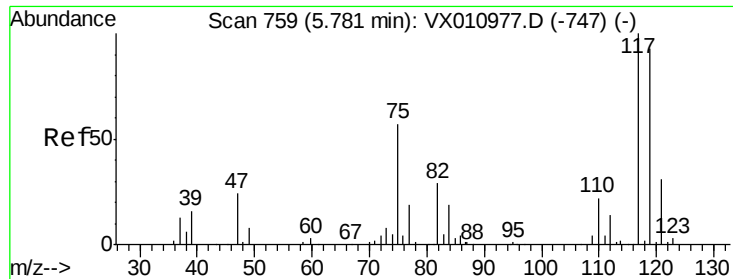
Tot Ion: 77 Resp: 12321  
 Ion Ratio Lower Upper  
 77 100  
 97 17.1 20.9 31.3#



#32  
 1,1,1-Trichloroethane  
 Concen: 4.637 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Tgt Ion: 97 Resp: 16562  
 Ion Ratio Lower Upper  
 97 100  
 99 64.3 51.0 76.6  
 61 42.4 34.3 51.5

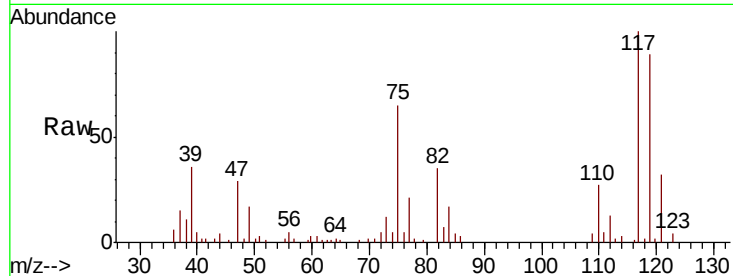




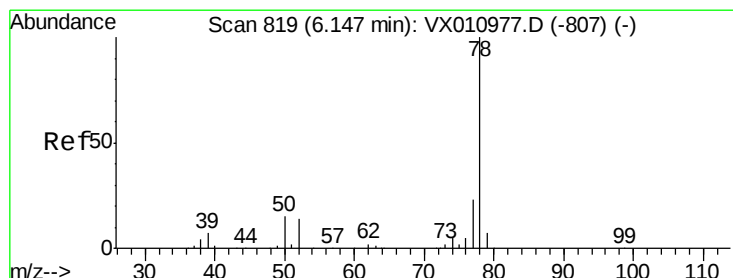
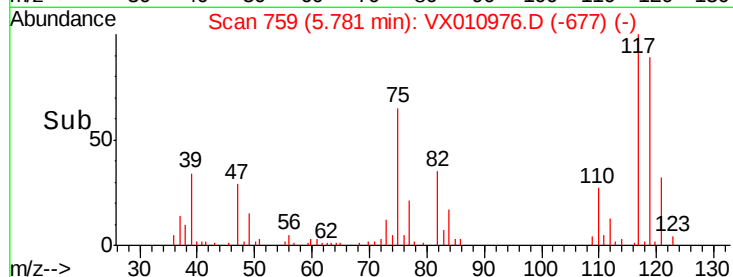
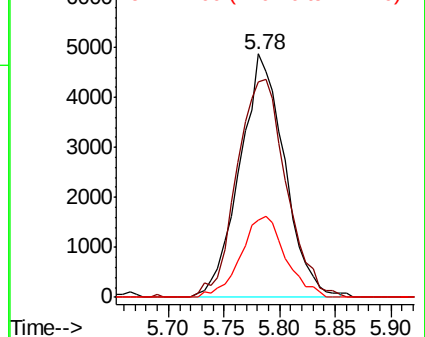
#33  
Carbon Tetrachloride  
Concen: 4.563 ug/l  
RT: 5.78 min Scan# 759  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 13620  
Ion Ratio Lower Upper  
117 100  
119 88.5 74.3 111.5  
121 31.7 24.9 37.3

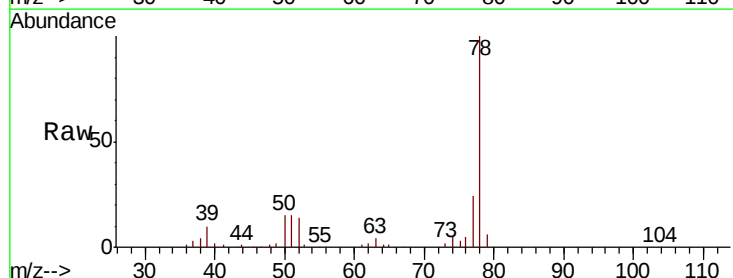


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V

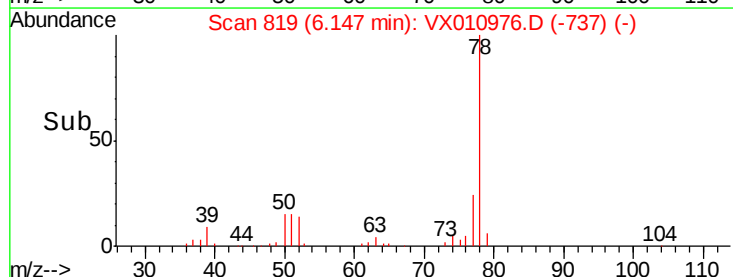
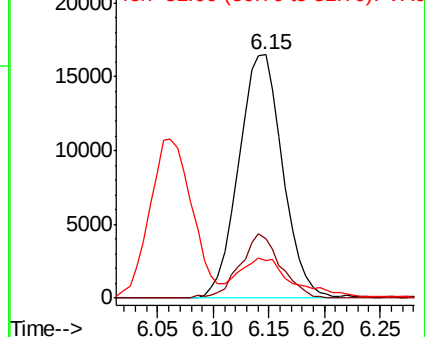


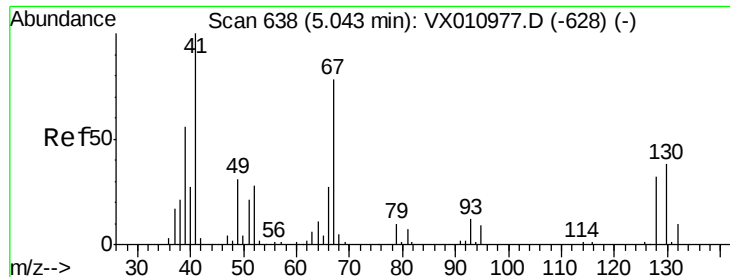
#34  
Benzene  
Concen: 4.583 ug/l  
RT: 6.15 min Scan# 819  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 78 Resp: 45350  
Ion Ratio Lower Upper  
78 100  
77 24.4 18.2 27.4  
51 13.1 11.4 17.2



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

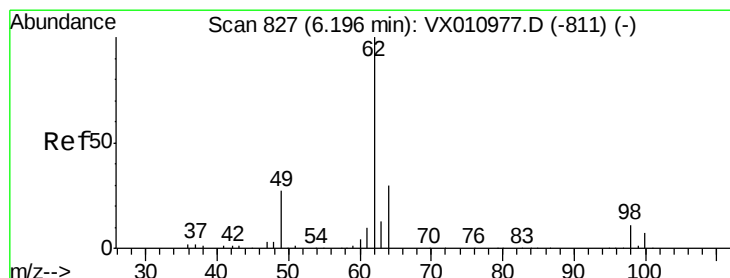
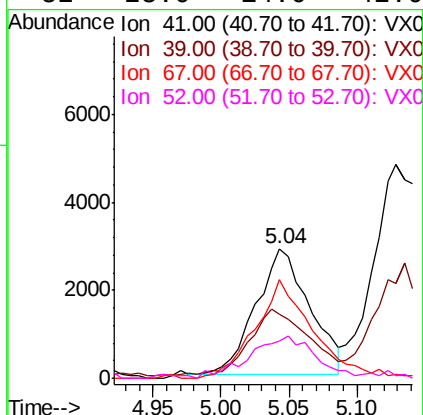
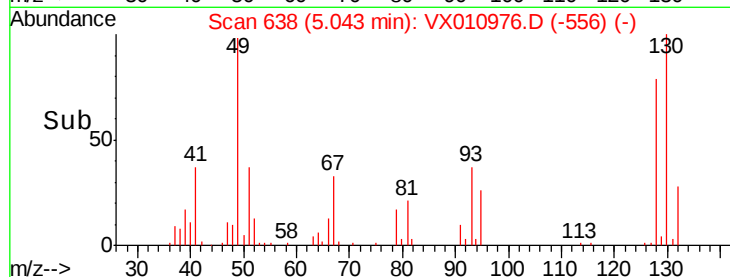
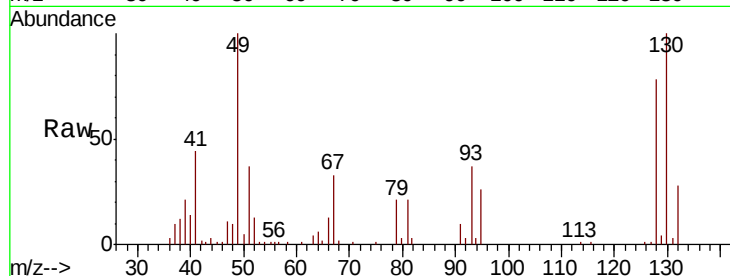




#35  
Methacrylonitrile  
Concen: 3.200 ug/l  
RT: 5.04 min Scan# 638  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

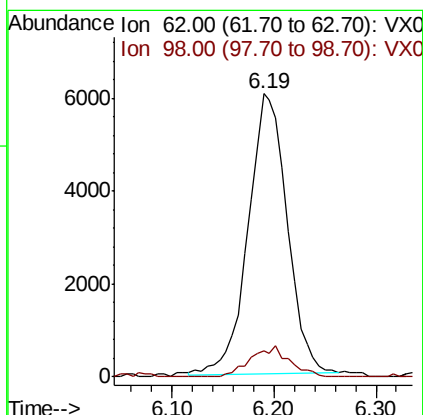
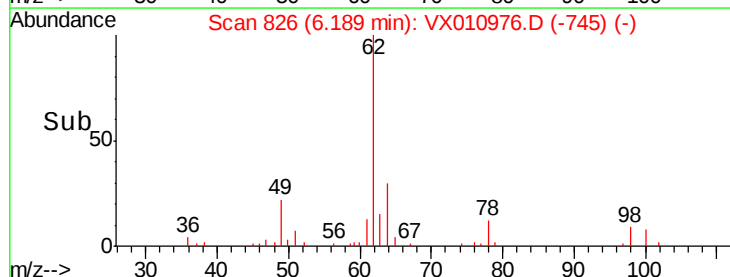
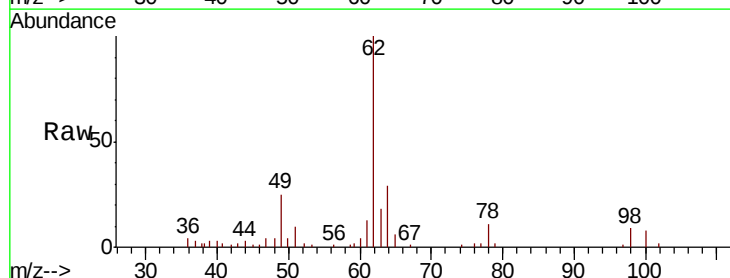
Instrument :  
MSVOA\_X  
ClientSampleId :

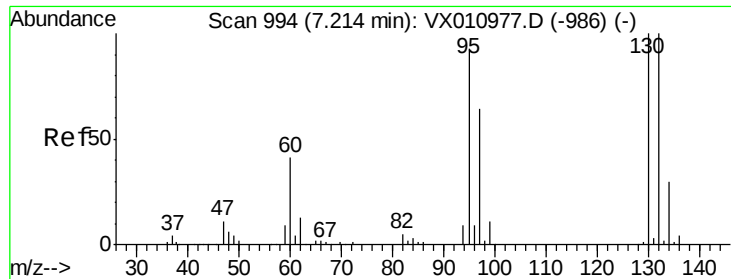
Tot Ion: 41 Resp: 7914  
Ion Ratio Lower Upper  
41 100  
39 46.9 27.6 82.8  
67 76.5 39.1 117.2  
52 28.0 14.0 42.0



#36  
1,2-Dichloroethane  
Concen: 4.531 ug/l  
RT: 6.19 min Scan# 826  
Delta R.T. -0.01 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 62 Resp: 16155  
Ion Ratio Lower Upper  
62 100  
98 5.9 8.0 12.0#

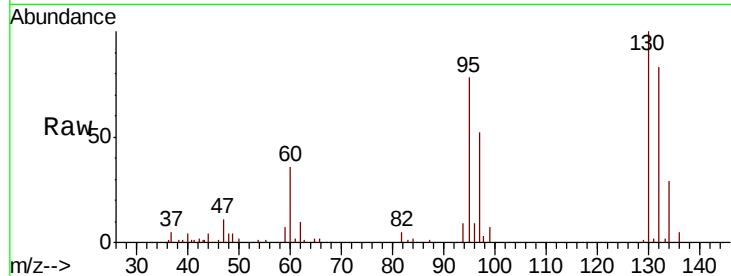




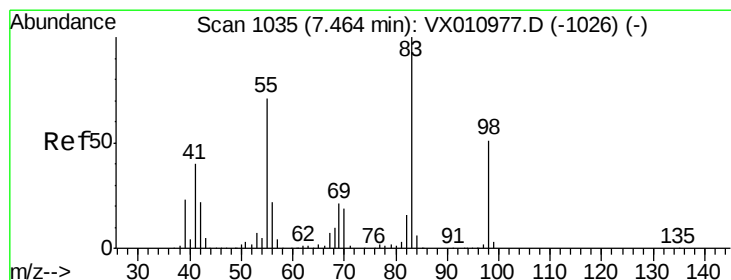
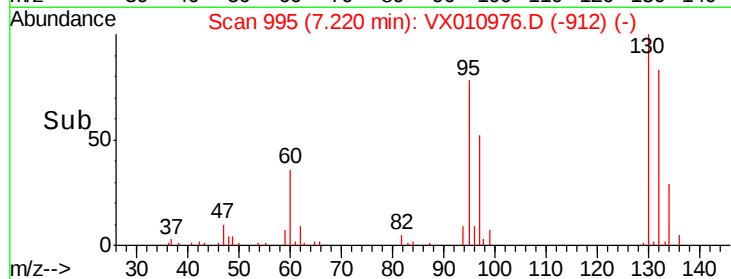
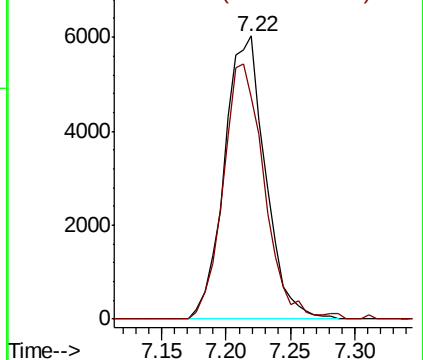
#37  
 Trichloroethene  
 Concen: 5.391 ug/l  
 RT: 7.22 min Scan# 995  
 Delta R.T. 0.01 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion:130 Resp: 13369  
 Ion Ratio Lower Upper  
 130 100  
 95 78.2 74.1 111.1

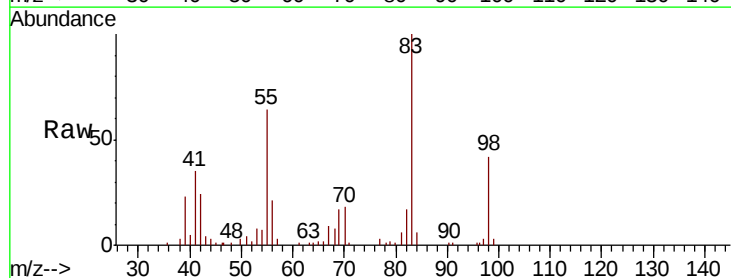


Abundance Ion 129.90 (129.60 to 130.60): VX0  
 Ion 94.90 (94.60 to 95.60): VX0

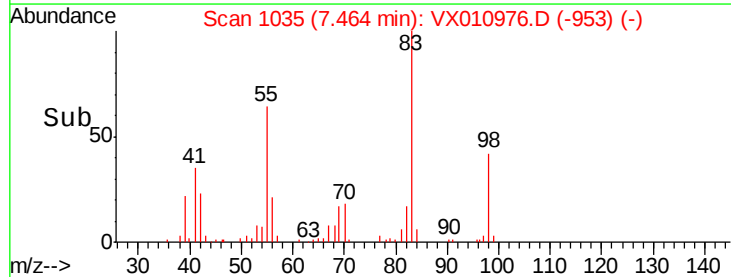
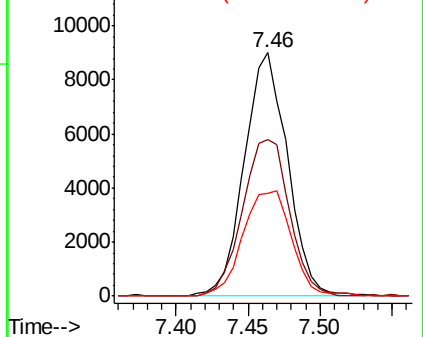


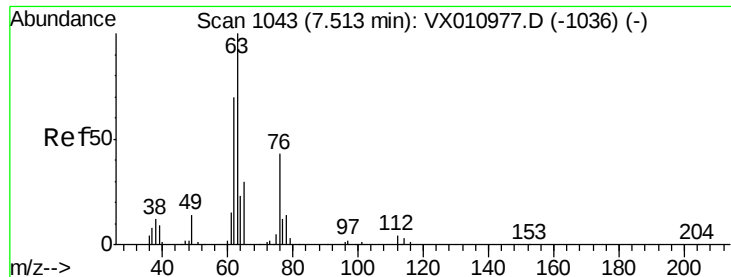
#38  
 Methylcyclohexane  
 Concen: 4.666 ug/l  
 RT: 7.46 min Scan# 1035  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Tgt Ion: 83 Resp: 18710  
 Ion Ratio Lower Upper  
 83 100  
 55 69.8 35.3 105.9  
 98 48.3 24.0 72.0



Abundance Ion 83.00 (82.70 to 83.70): VX0  
 Ion 55.00 (54.70 to 55.70): VX0  
 Ion 98.00 (97.70 to 98.70): VX0

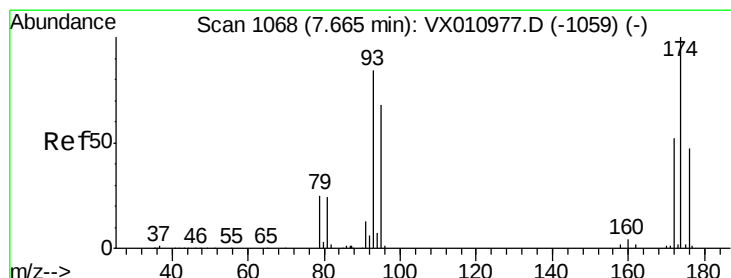
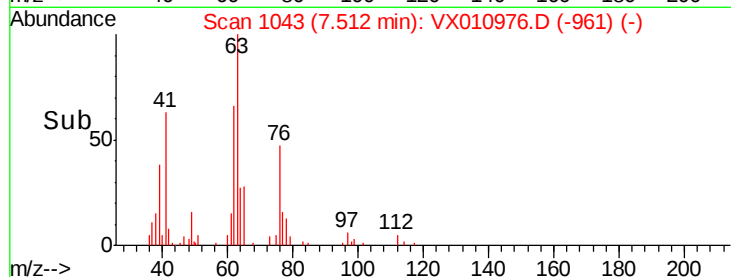
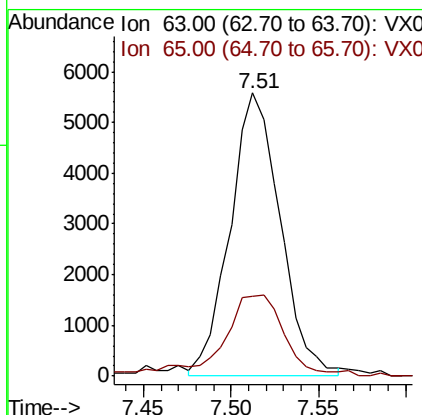
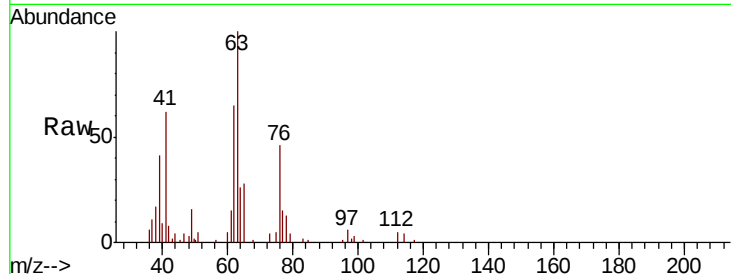




#39  
 1,2-Dichloropropane  
 Concen: 4.049 ug/l  
 RT: 7.51 min Scan# 1043  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

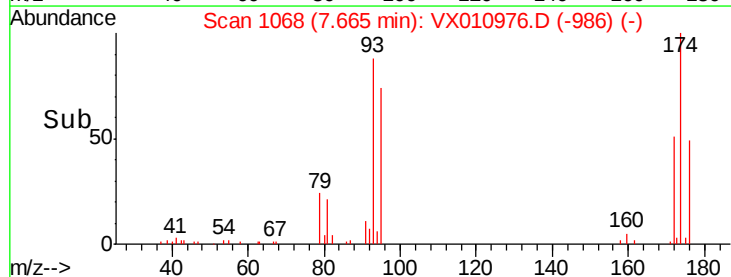
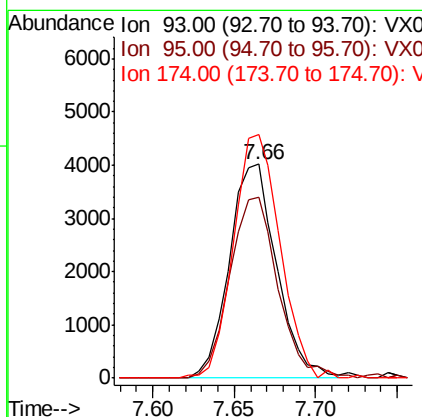
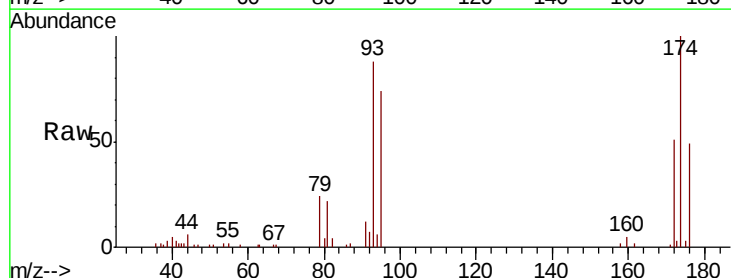
Instrument :  
 MSVOA\_X  
 ClientSampleId :

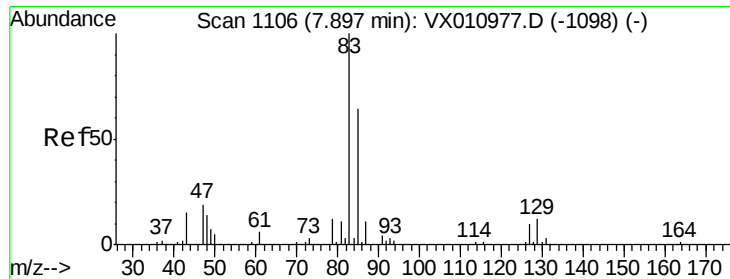
Tot Ion: 63 Resp: 11164  
 Ion Ratio Lower Upper  
 63 100  
 65 27.2 25.6 38.4



#40  
 Dibromomethane  
 Concen: 4.960 ug/l  
 RT: 7.66 min Scan# 1068  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Tgt Ion: 93 Resp: 8127  
 Ion Ratio Lower Upper  
 93 100  
 95 86.1 0.0 166.0  
 174 111.4 0.0 229.2





#41

Bromodichloromethane

Concen: 4.079 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampleId :

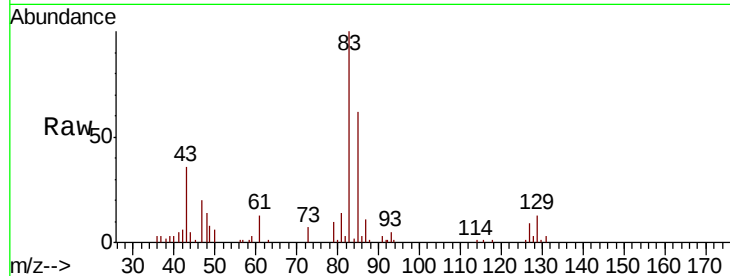
Tot Ion: 83 Resp: 13273

Ion Ratio Lower Upper

83 100

85 61.6 50.9 76.3

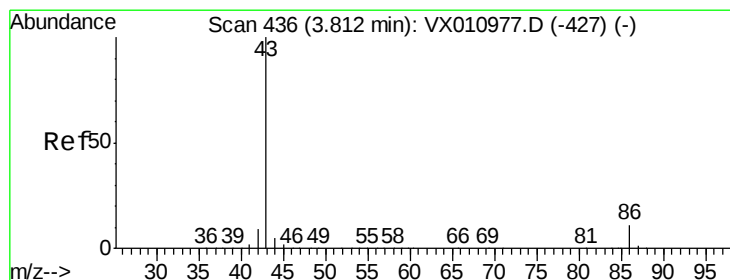
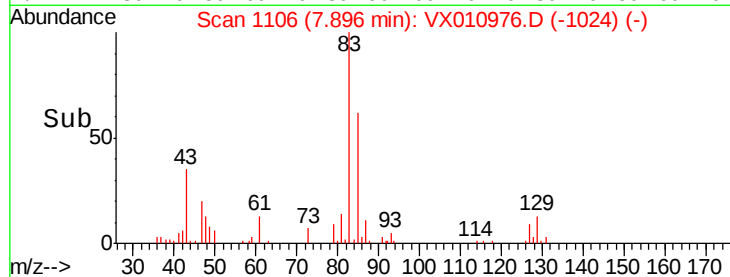
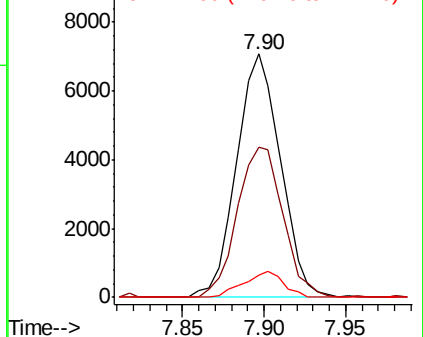
127 9.3 7.7 11.5



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: 16.295 ug/l

RT: 3.81 min Scan# 436

Delta R.T. -0.00 min

Lab File: VX010976.D

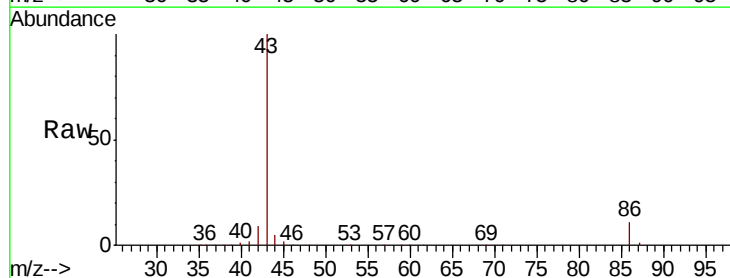
Acq: 18 Jul 2019 22:22

Tgt Ion: 43 Resp: 127373

Ion Ratio Lower Upper

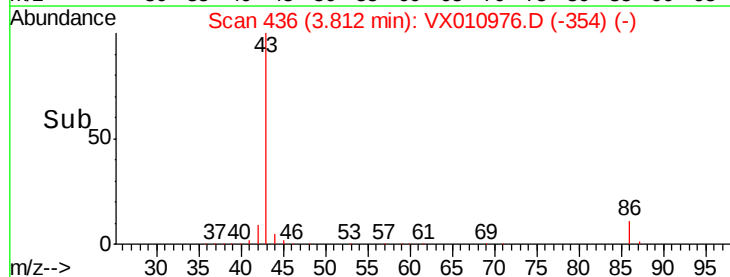
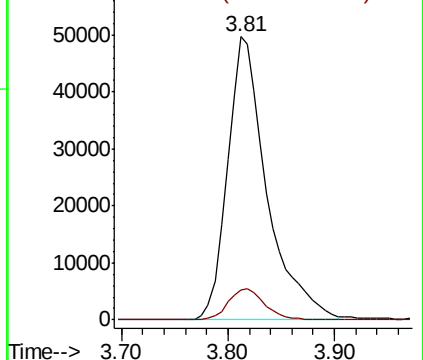
43 100

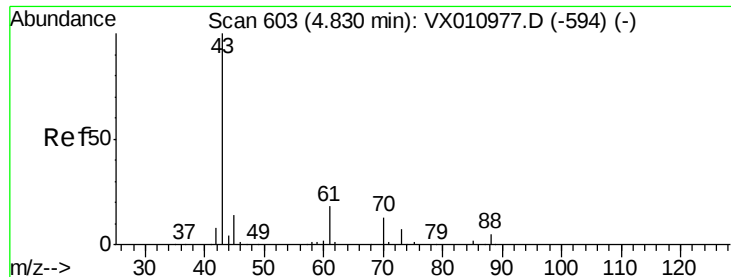
86 10.4 8.2 12.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

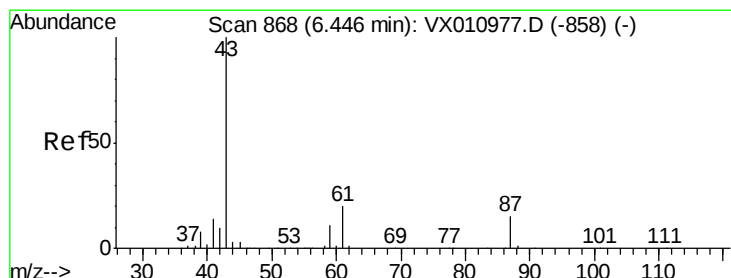
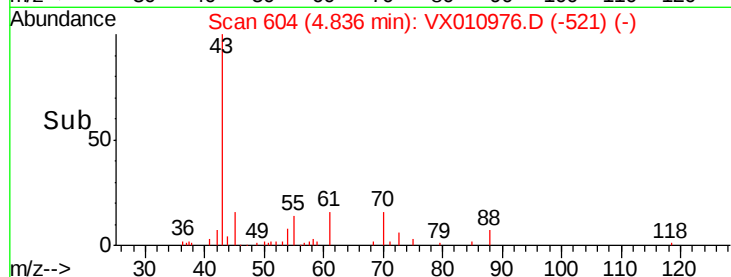
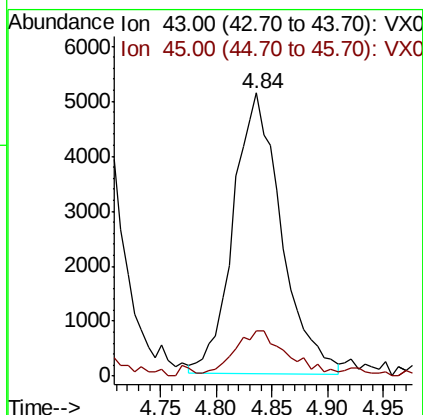
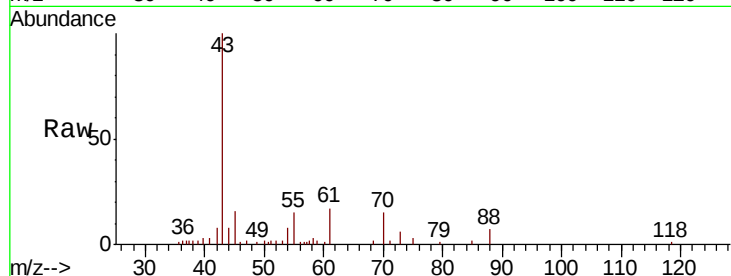




#43  
Ethyl Acetate  
Concen: 3.575 ug/l  
RT: 4.84 min Scan# 604  
Delta R.T. 0.01 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

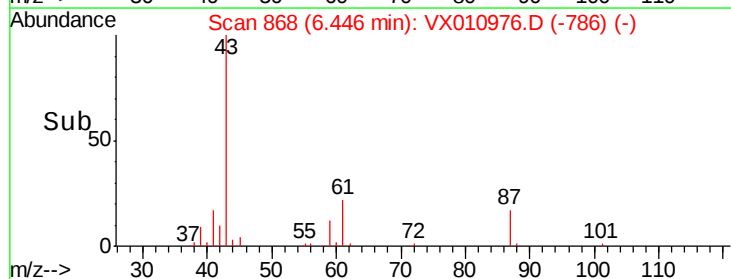
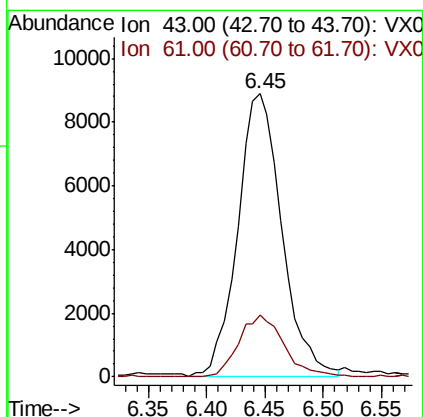
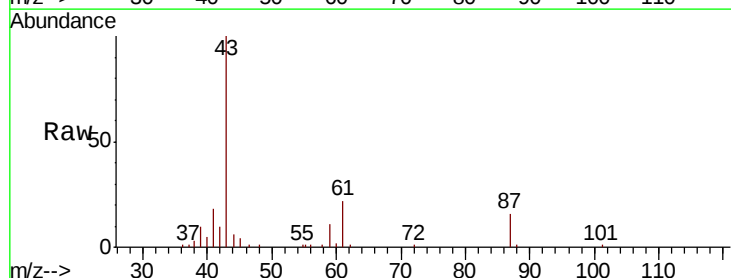
Instrument :  
MSVOA\_X  
ClientSampleId :

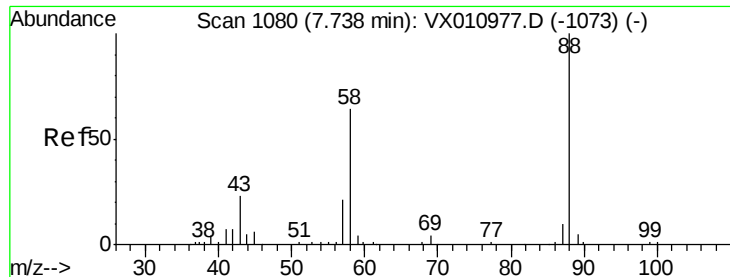
Tot Ion: 43 Resp: 15369  
Ion Ratio Lower Upper  
43 100  
45 15.6 12.1 18.1



#44  
Isopropyl Acetate  
Concen: 3.343 ug/l  
RT: 6.45 min Scan# 868  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 43 Resp: 23552  
Ion Ratio Lower Upper  
43 100  
61 22.3 16.7 25.1





#45

1,4-Dioxane

Concen: 92.303 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampled :

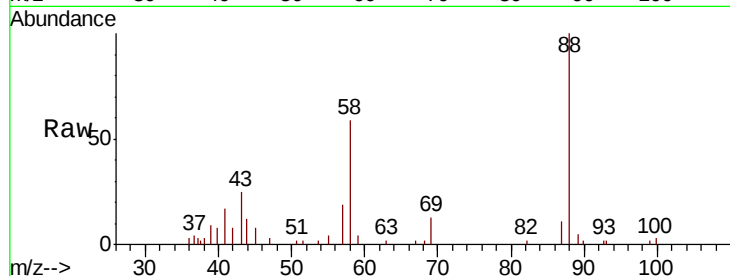
Tot Ion: 88 Resp: 6746

Ion Ratio Lower Upper

88 100

43 29.9 21.6 32.4

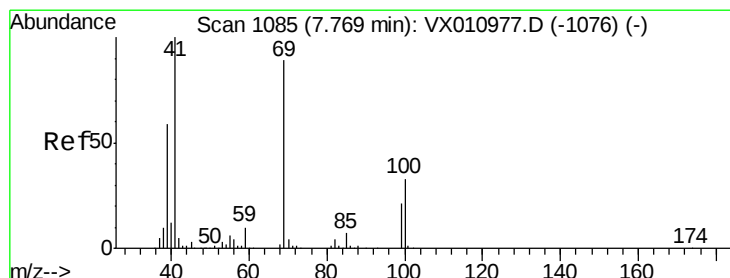
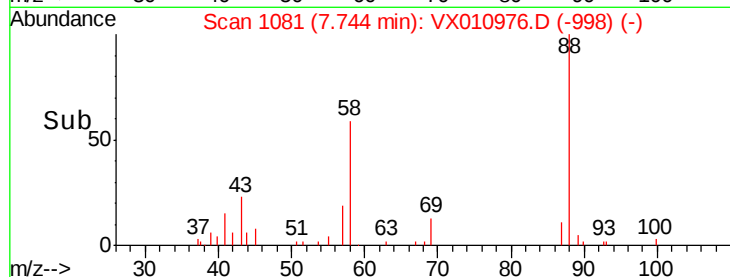
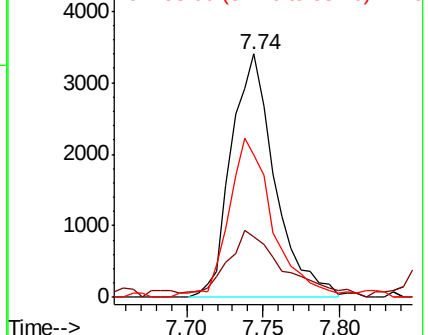
58 64.4 52.2 78.2



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#46

Methyl methacrylate

Concen: 3.087 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

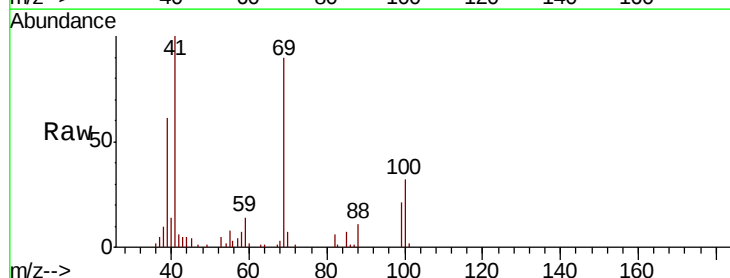
Tgt Ion: 41 Resp: 10773

Ion Ratio Lower Upper

41 100

69 90.4 44.7 134.1

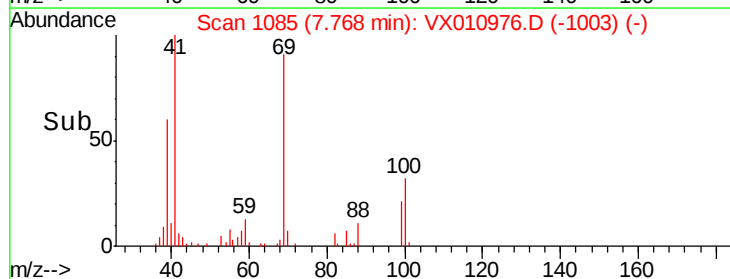
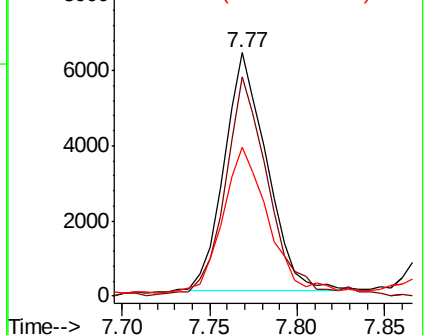
39 60.6 29.4 88.2

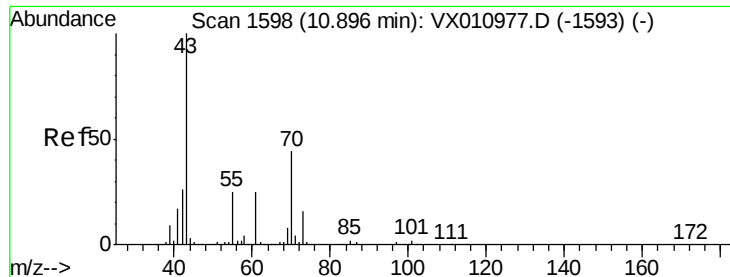


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#47

n-amvl Acetate

Concen: 2.900 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

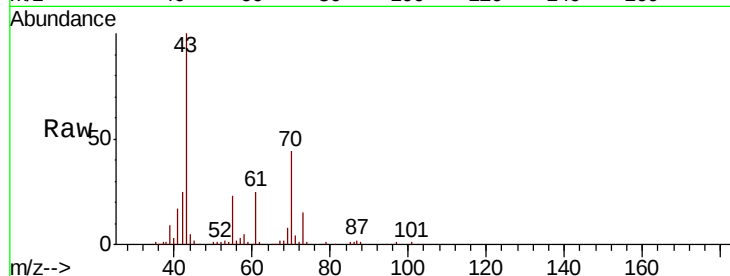
ClientSampleId :

Tot Ion: 43 Resp: 18379

Ion Ratio Lower Upper

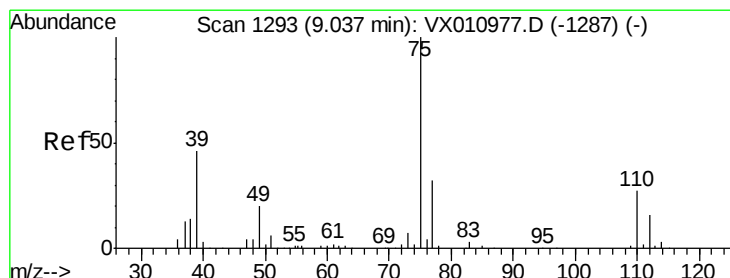
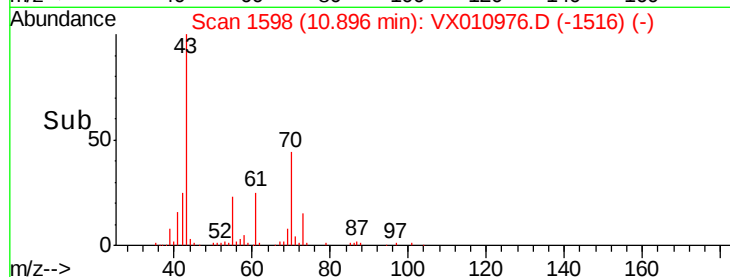
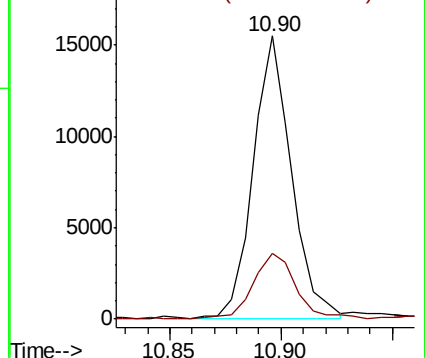
43 100

55 26.4 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#48

t-1,3-Dichloropropene

Concen: 3.323 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.01 min

Lab File: VX010976.D

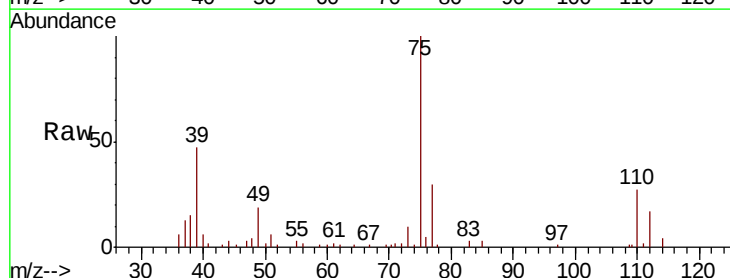
Acq: 18 Jul 2019 22:22

Tgt Ion: 75 Resp: 12404

Ion Ratio Lower Upper

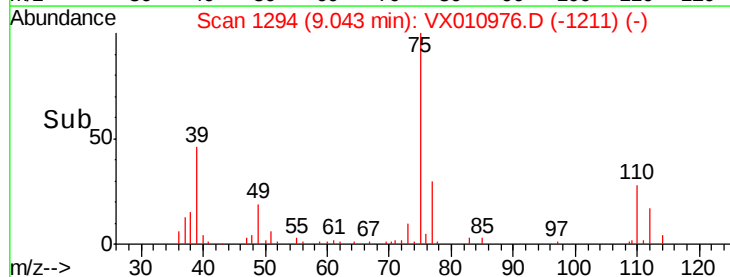
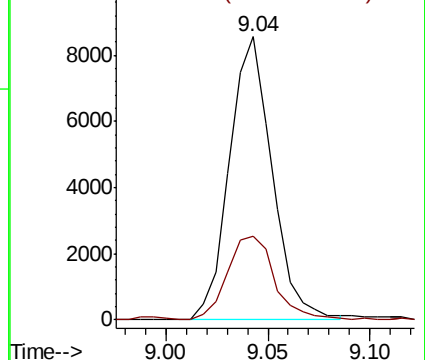
75 100

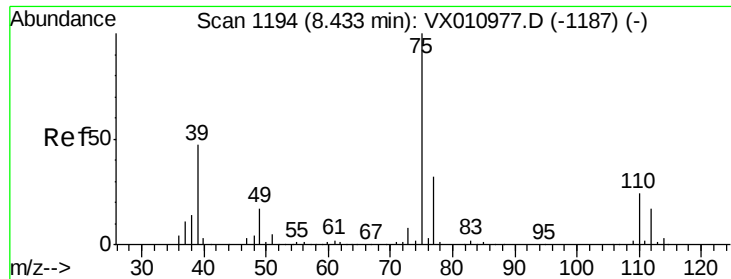
77 29.7 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

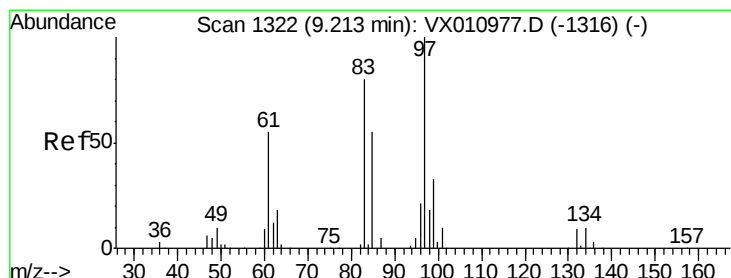
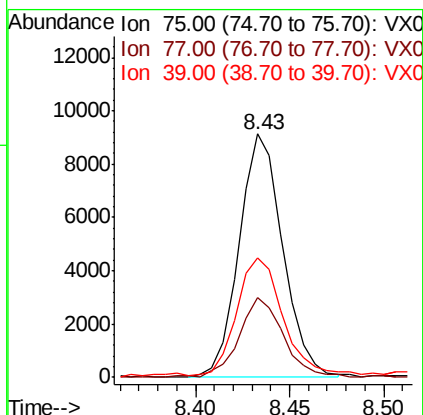
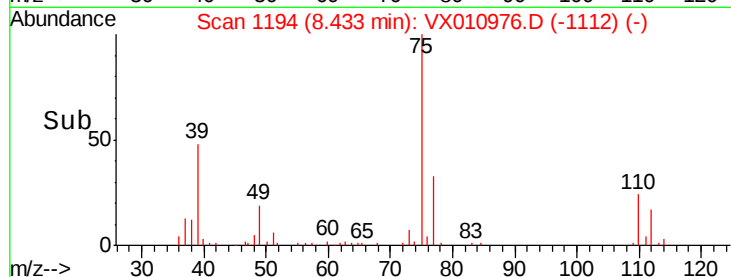
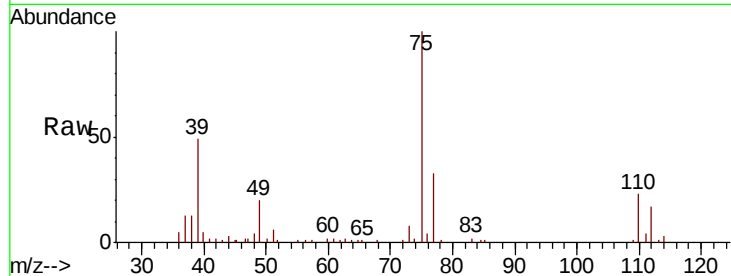




#49  
 cis-1,3-Dichloropropene  
 Concen: 3.564 ug/l  
 RT: 8.43 min Scan# 1194  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

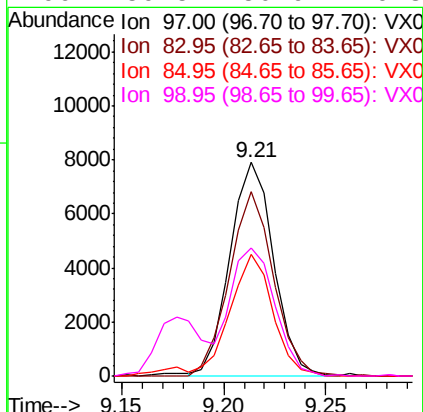
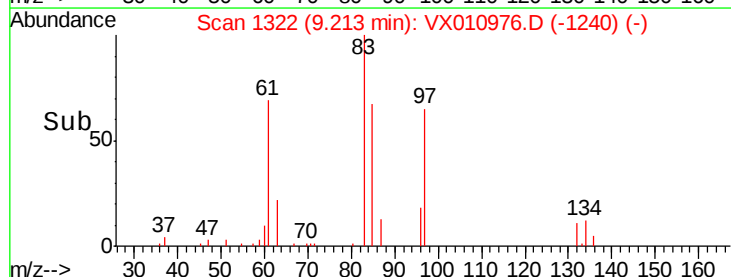
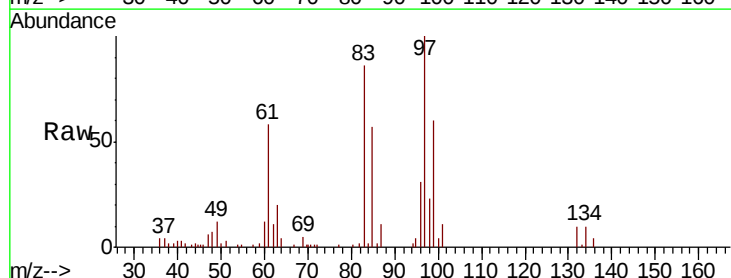
Instrument :  
 MSVOA\_X  
 ClientSampleId :

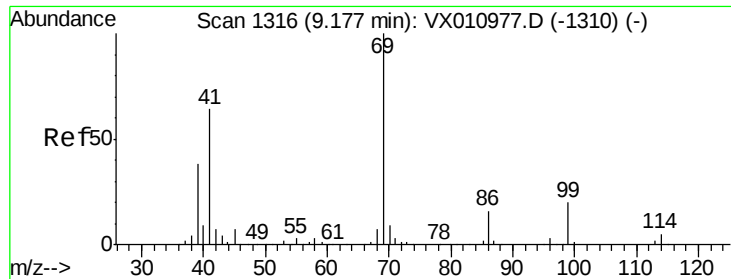
| Tot Ion | 75    | Resp  | 14640 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 75      | 100   |       |       |
| 77      | 31.9  | 25.3  | 37.9  |
| 39      | 48.1  | 37.8  | 56.6  |



#50  
 1,1,2-Trichloroethane  
 Concen: 4.723 ug/l  
 RT: 9.21 min Scan# 1322  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

| Tgt Ion | 97    | Resp  | 11748 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 97      | 100   |       |       |
| 83      | 86.1  | 63.9  | 95.9  |
| 85      | 57.2  | 43.4  | 65.2  |
| 99      | 59.5  | 50.9  | 76.3  |





#51

Ethyl methacrylate

Concen: 3.831 ug/l

RT: 9.18 min Scan# 1316

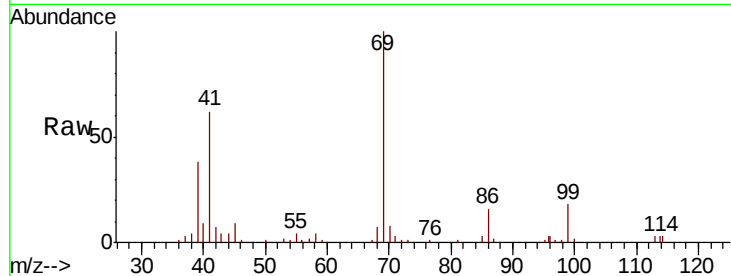
Delta R.T. -0.00 min

Lab File: VX010976.D

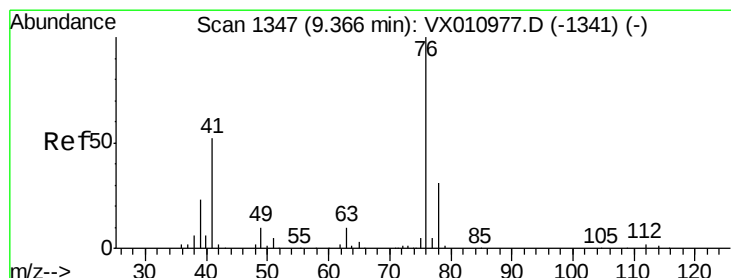
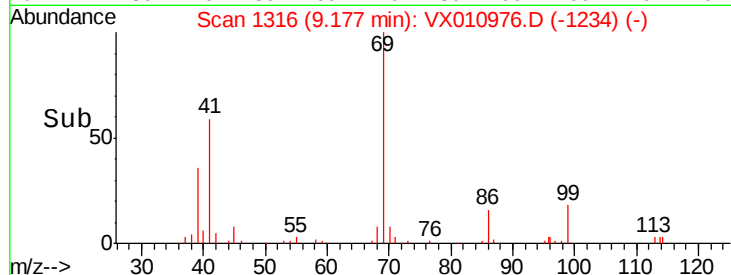
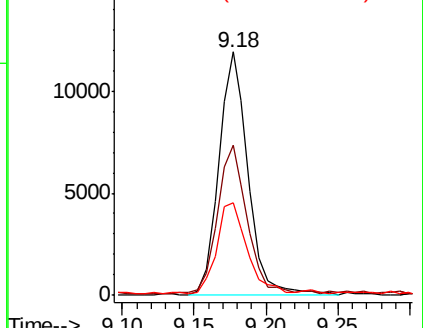
Acq: 18 Jul 2019 22:22

Instrument :  
MSVOA\_X  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 69    | Resp: | 16997 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 60.5  | 32.1  | 96.3  |
| 39       | 37.1  | 19.1  | 57.3  |



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: 4.408 ug/l

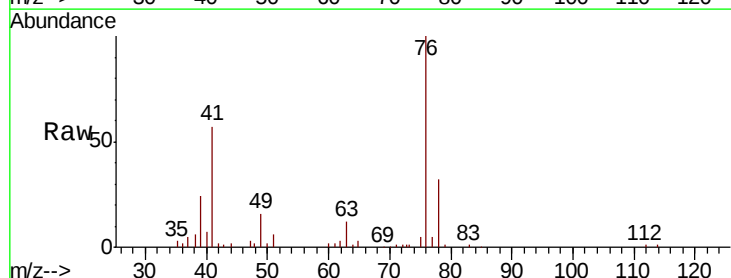
RT: 9.37 min Scan# 1348

Delta R.T. 0.01 min

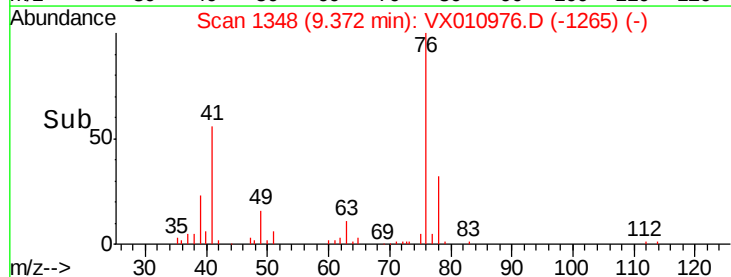
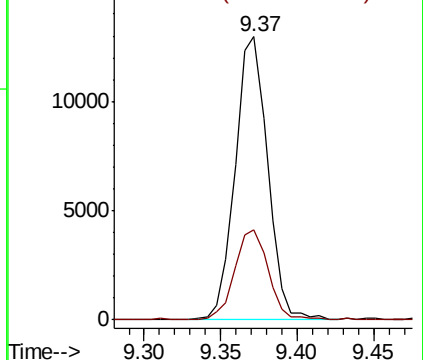
Lab File: VX010976.D

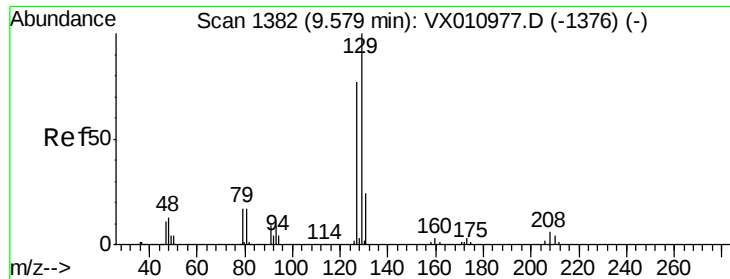
Acq: 18 Jul 2019 22:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 76    | Resp: | 19112 |
| Ion      | Ratio | Lower | Upper |
| 76       | 100   |       |       |
| 78       | 32.9  | 0.0   | 63.8  |



Abundance Ion 76.00 (75.70 to 76.70): VX0  
Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 4.075 ug/l

RT: 9.58 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

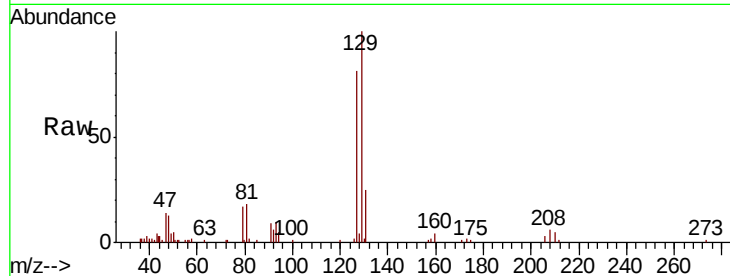
ClientSampleId :

Tot Ion:129 Resp: 10203

Ion Ratio Lower Upper

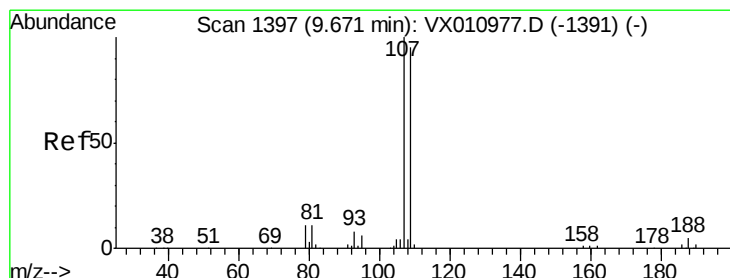
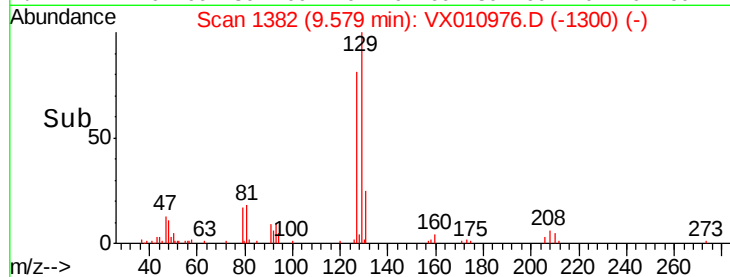
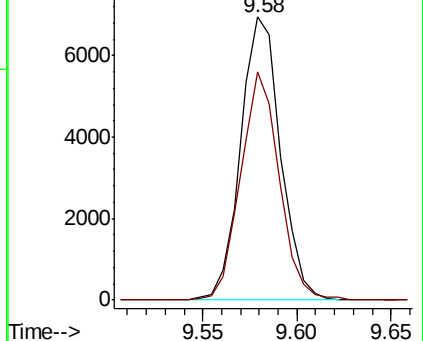
129 100

127 78.0 38.1 114.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 4.711 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX010976.D

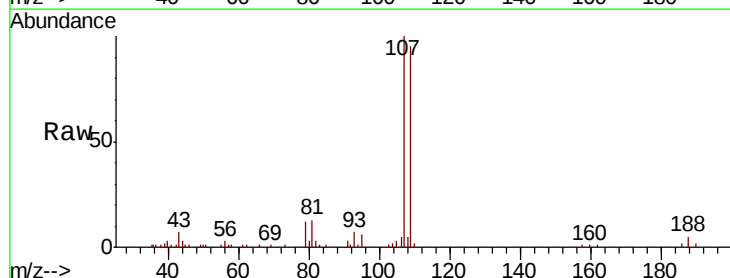
Acq: 18 Jul 2019 22:22

Tgt Ion:107 Resp: 12145

Ion Ratio Lower Upper

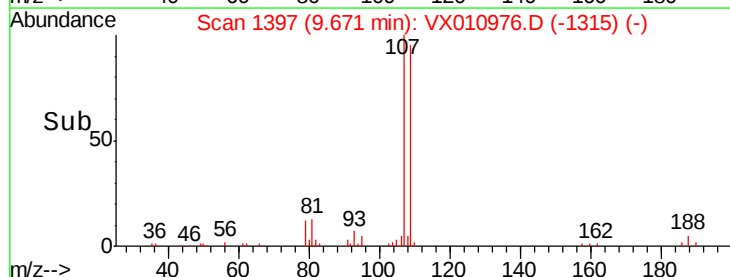
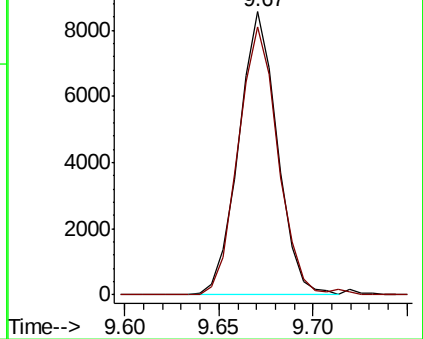
107 100

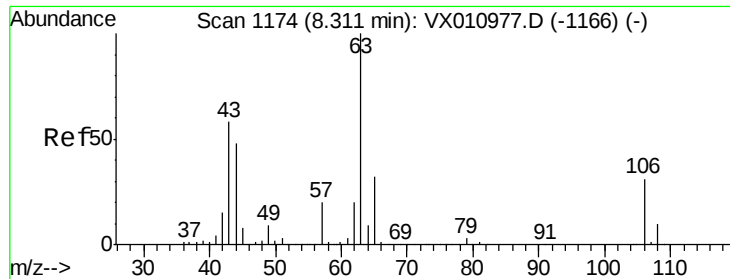
109 96.6 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

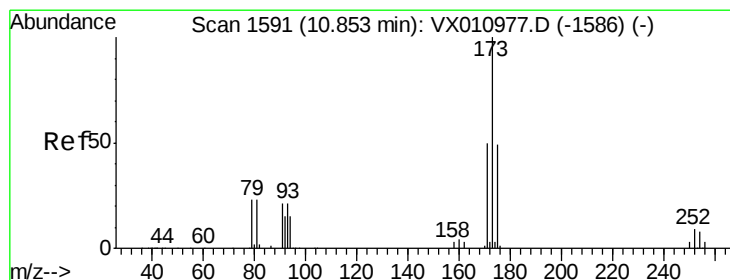
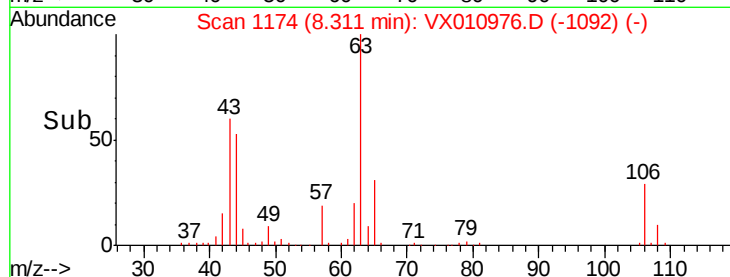
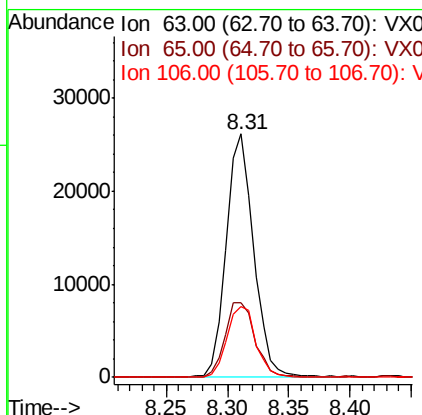
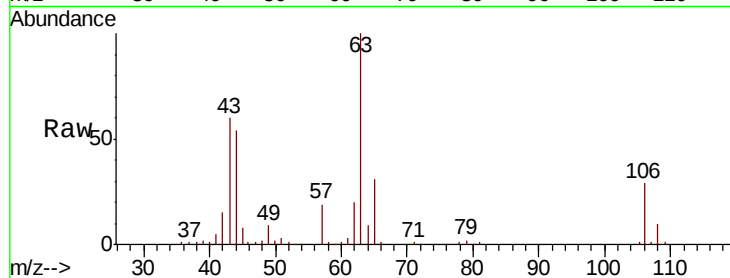




#55  
2-Chloroethyl vinyl ether  
Concen: 17.900 ug/l  
RT: 8.31 min Scan# 1174  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

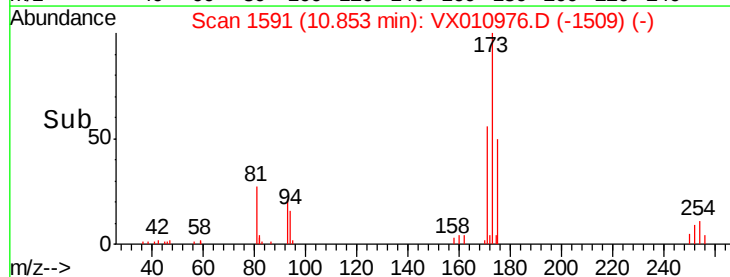
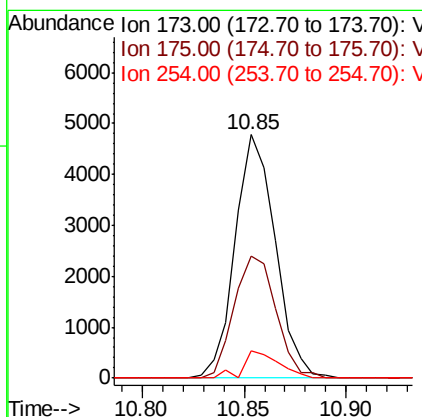
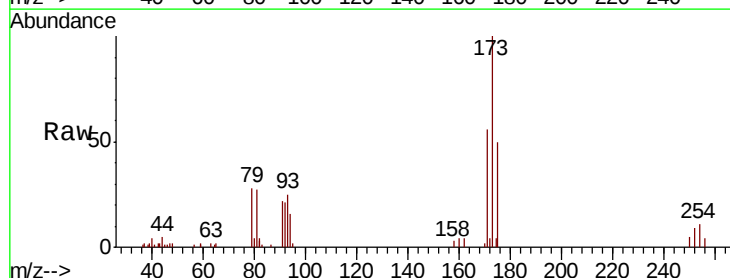
Instrument :  
MSVOA\_X  
ClientSampleId :

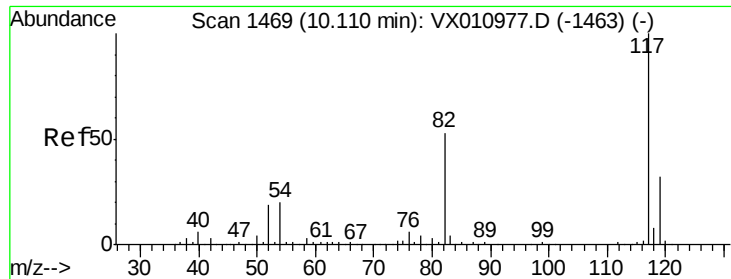
Tot Ion: 63 Resp: 40591  
Ion Ratio Lower Upper  
63 100  
65 33.7 25.7 38.5  
106 30.3 24.8 37.2



#56  
Bromoform  
Concen: 3.444 ug/l  
RT: 10.85 min Scan# 1591  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 173 Resp: 6565  
Ion Ratio Lower Upper  
173 100  
175 52.1 39.0 58.6  
254 9.0 7.9 11.9

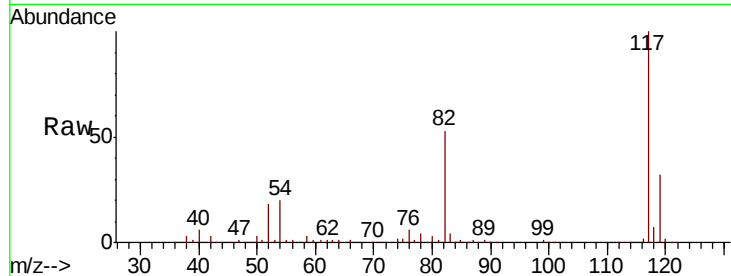




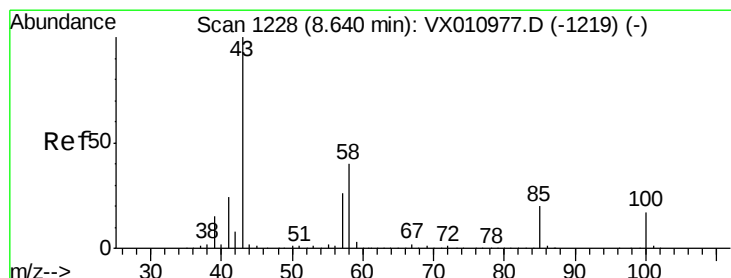
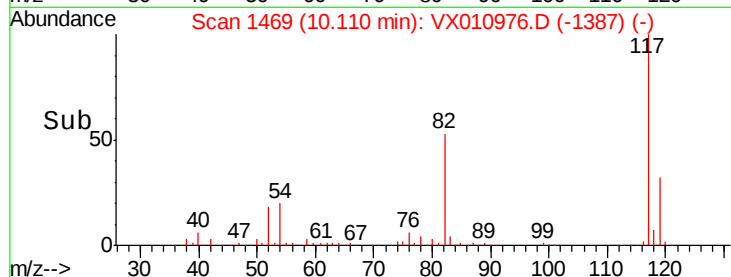
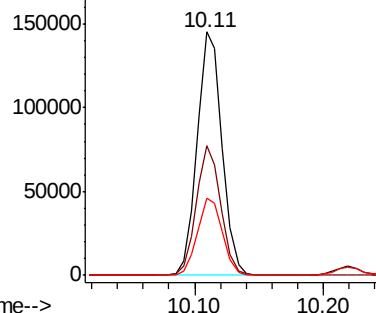
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 197447  
Ion Ratio Lower Upper  
117 100  
82 51.9 41.6 62.4  
119 31.8 26.0 39.0

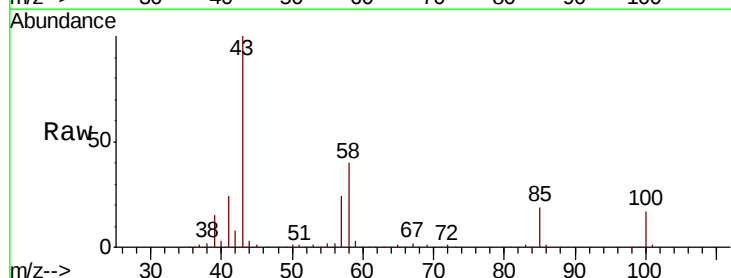


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 119.00 (118.70 to 119.70): V

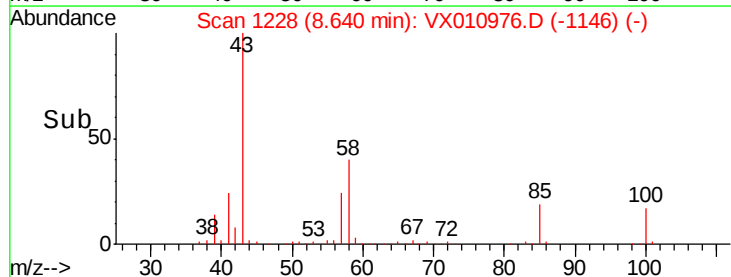
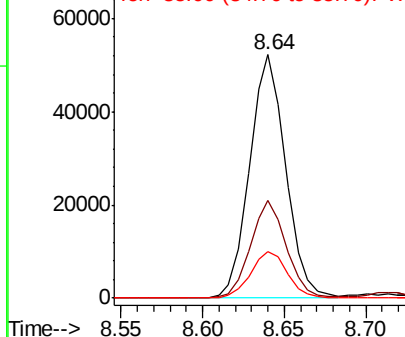


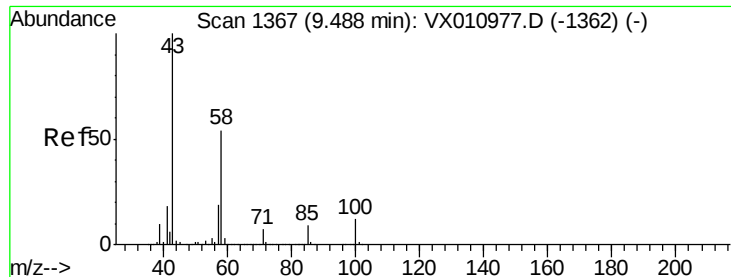
#58  
4-Methyl-2-Pentanone  
Concen: 17.580 ug/l  
RT: 8.64 min Scan# 1228  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 43 Resp: 80084  
Ion Ratio Lower Upper  
43 100  
58 39.8 32.6 48.8  
85 19.5 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0  
Ion 85.00 (84.70 to 85.70): VX0

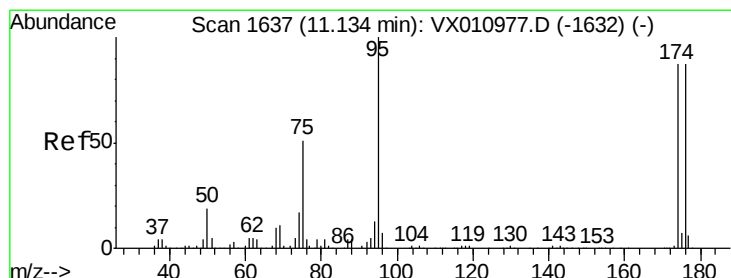
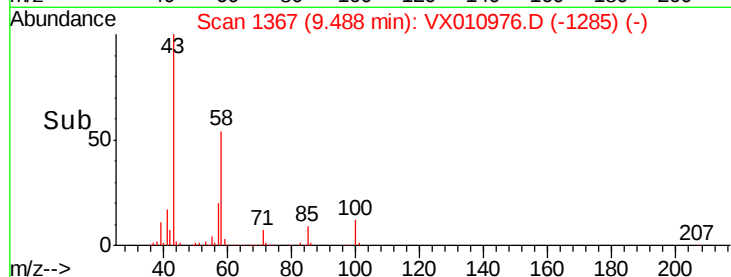
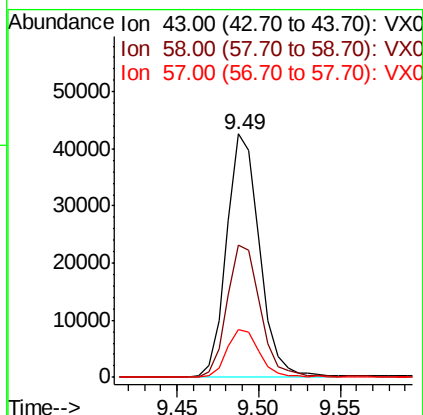
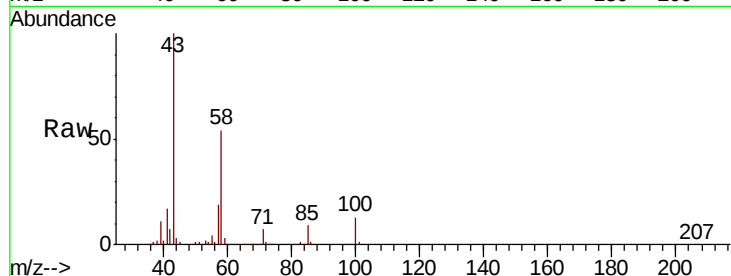




#59  
2-Hexanone  
Concen: 16.874 ug/l  
RT: 9.49 min Scan# 1367  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

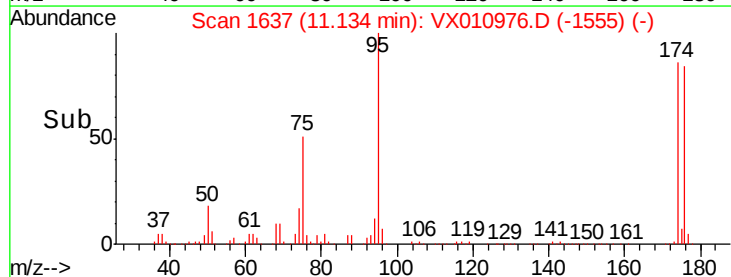
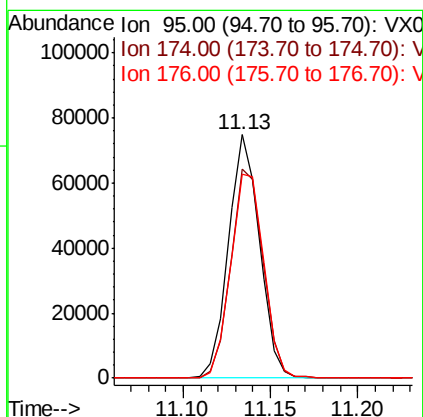
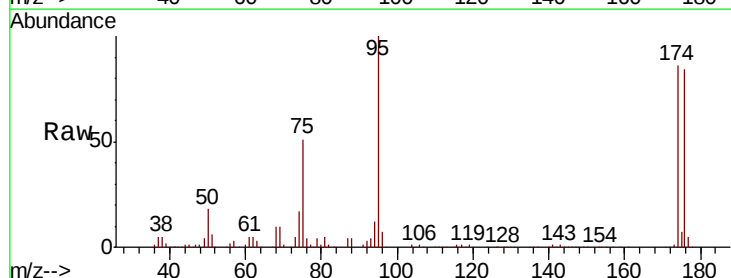
Instrument :  
MSVOA\_X  
ClientSampled :

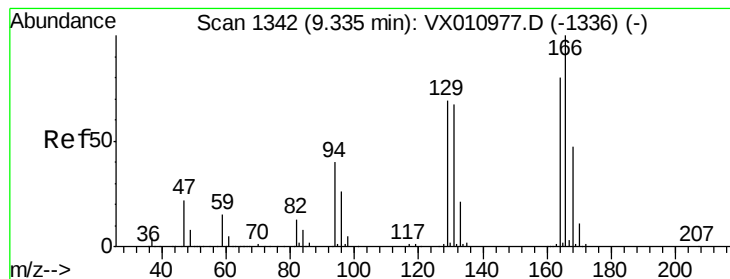
Tot Ion: 43 Resp: 60039  
Ion Ratio Lower Upper  
43 100  
58 54.6 44.7 67.1  
57 19.7 15.4 23.2



#60  
4-Bromofluorobenzene  
Concen: 28.110 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 95 Resp: 92870  
Ion Ratio Lower Upper  
95 100  
174 89.4 73.3 109.9  
176 89.4 71.2 106.8





#61

Tetrachloroethene

Concen: 5.983 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:164 Resp: 13614

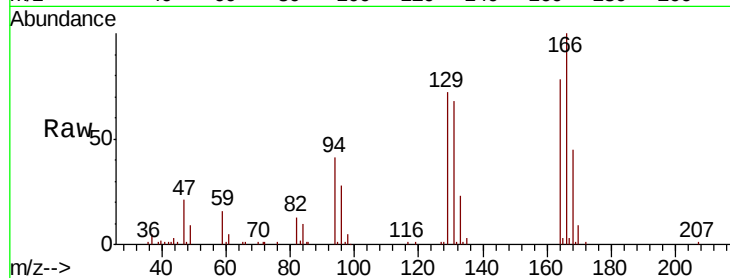
Ion Ratio Lower Upper

164 100

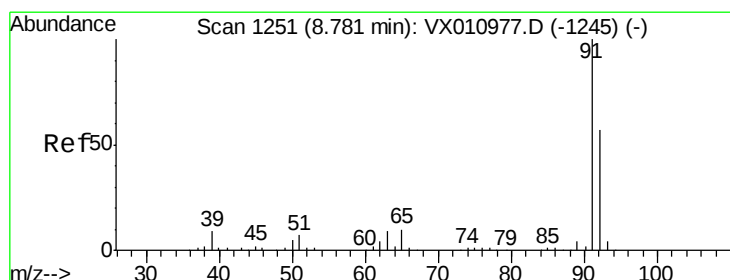
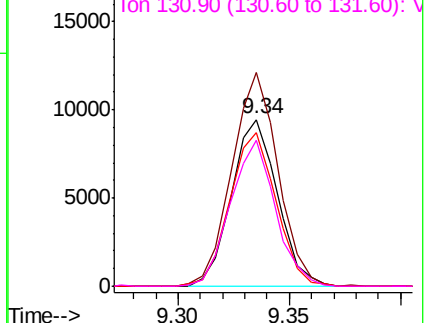
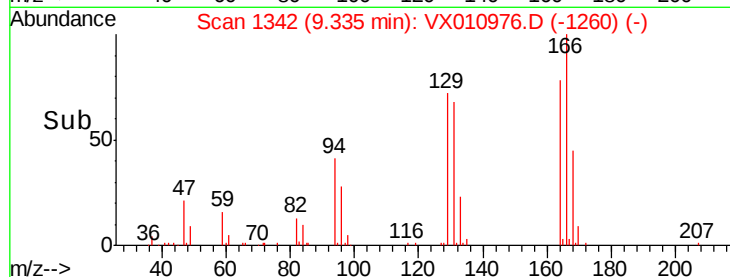
166 127.9 100.1 150.1

129 91.9 69.6 104.4

131 87.4 67.0 100.6



Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 4.931 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VX010976.D

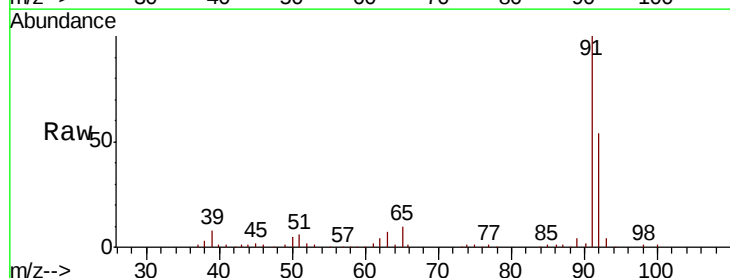
Acq: 18 Jul 2019 22:22

Tgt Ion: 91 Resp: 51929

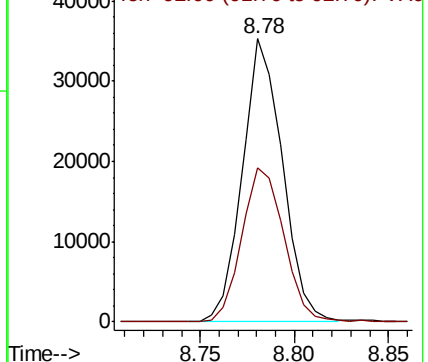
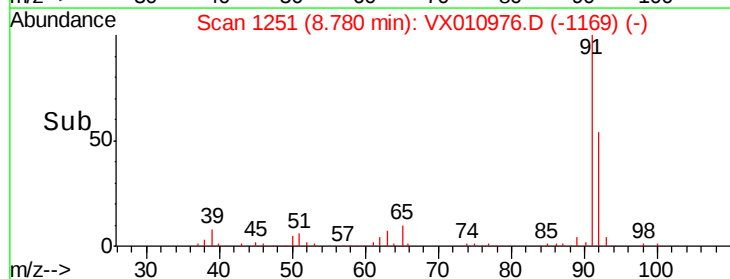
Ion Ratio Lower Upper

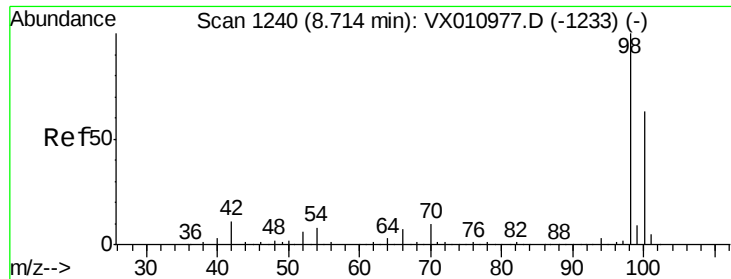
91 100

92 57.3 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VX0  
Ion 92.00 (91.70 to 92.70): VX0

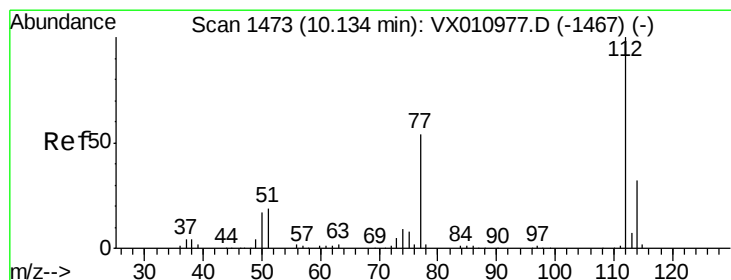
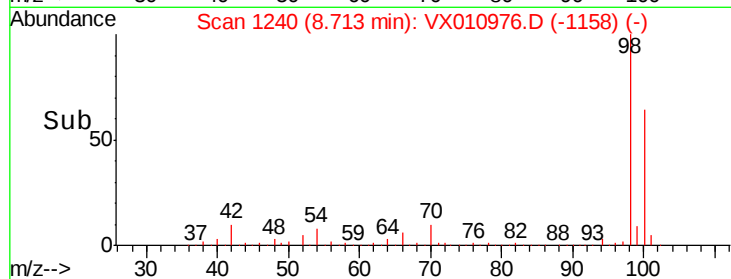
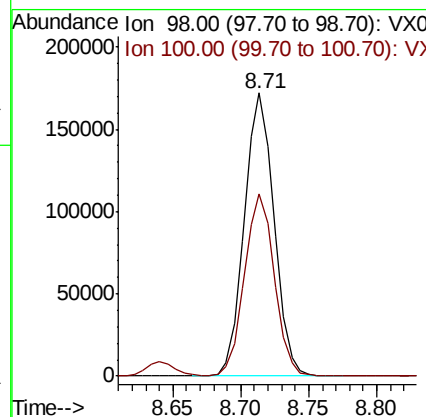
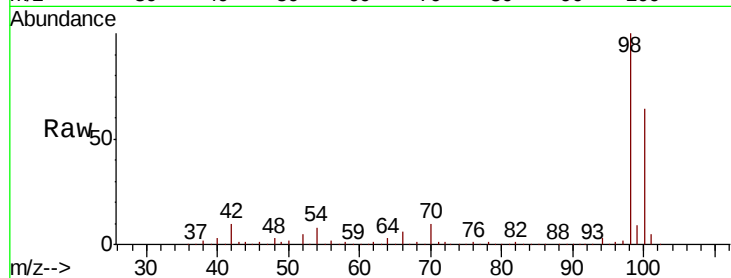




#63  
Toluene-d8  
Concen: 28.648 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

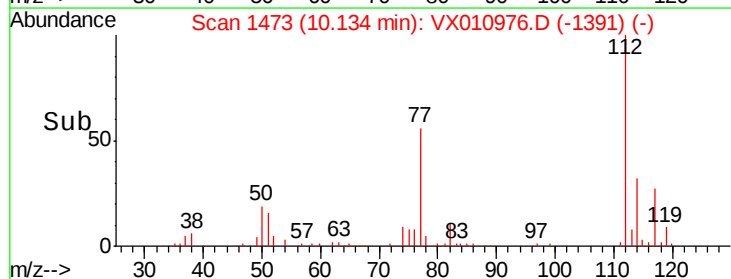
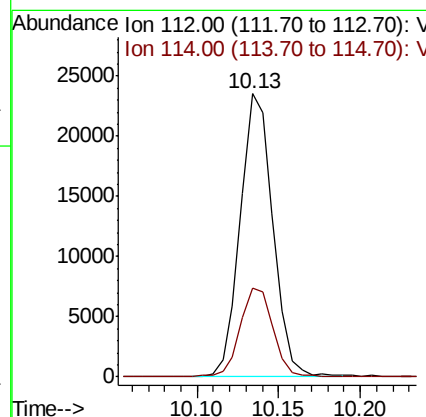
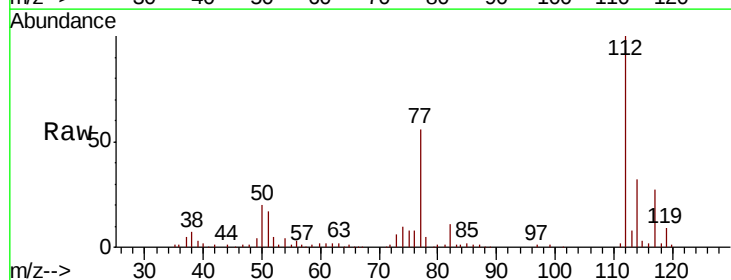
Instrument :  
MSVOA\_X  
ClientSampleId :

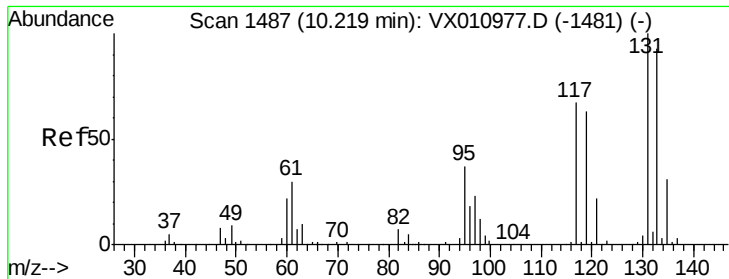
Tot Ion: 98 Resp: 263917  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.4 77.0



#64  
Chlorobenzene  
Concen: 5.115 ug/l  
RT: 10.13 min Scan# 1473  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 112 Resp: 32878  
Ion Ratio Lower Upper  
112 100  
114 31.3 25.3 37.9





#65

1,1,1,2-Tetrachloroethane

Concen: 4.287 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampled :

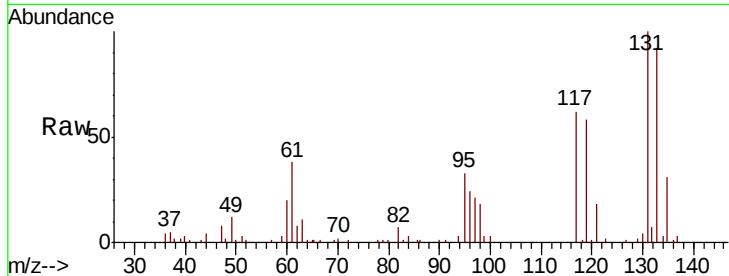
Tot Ion:131 Resp: 10056

Ion Ratio Lower Upper

131 100

133 99.6 0.0 190.2

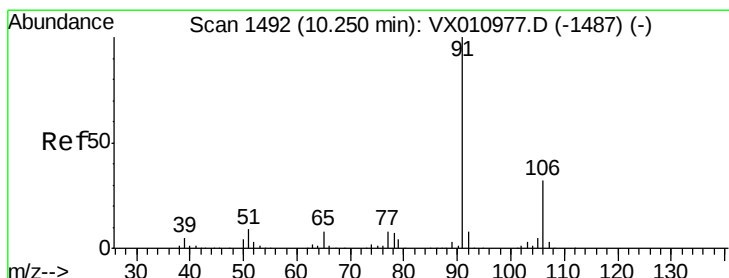
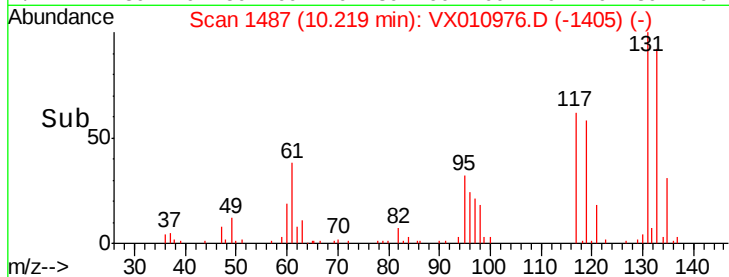
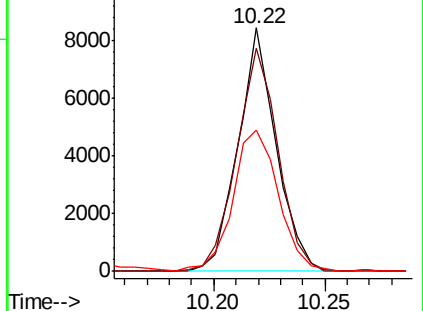
119 69.0 0.0 127.0



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: 4.886 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX010976.D

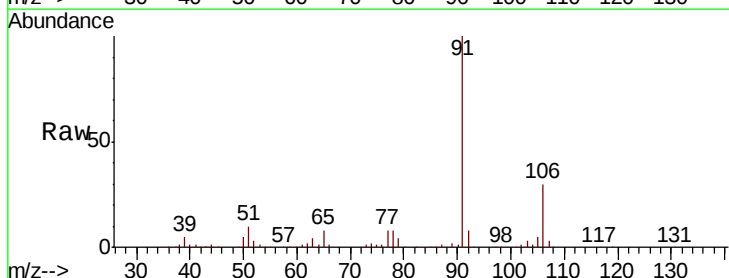
Acq: 18 Jul 2019 22:22

Tgt Ion: 91 Resp: 57435

Ion Ratio Lower Upper

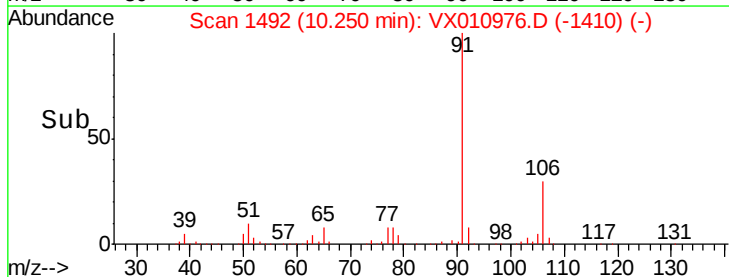
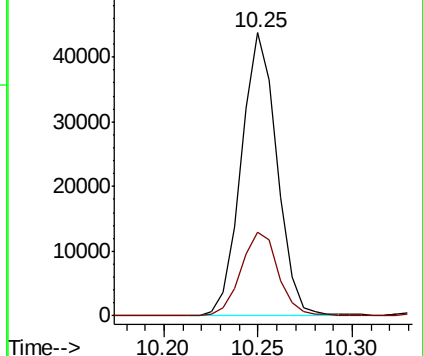
91 100

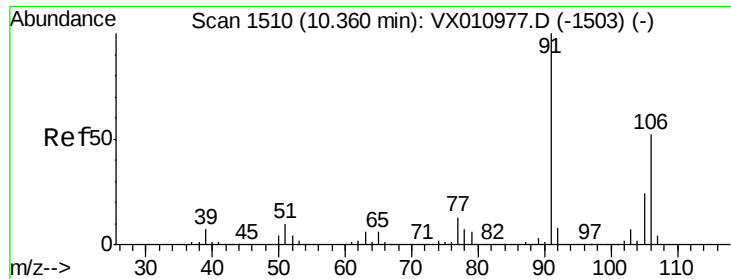
106 29.7 25.8 38.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

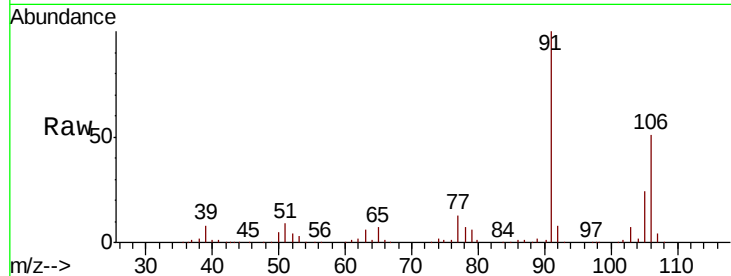




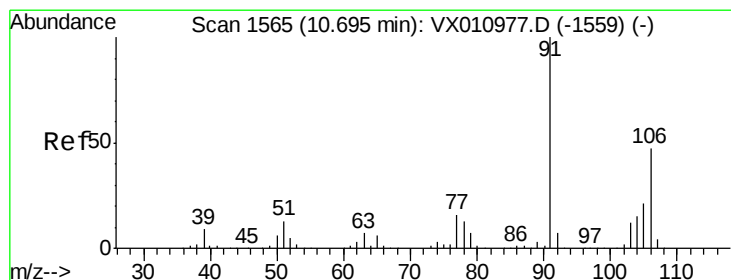
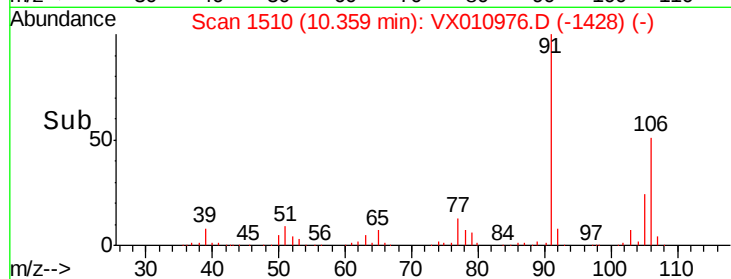
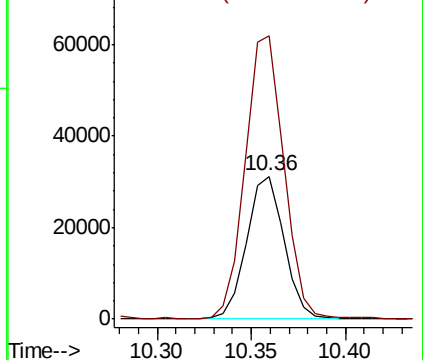
#67  
m/p-Xvlenes  
Concen: 9.897 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:106 Resp: 43065  
Ion Ratio Lower Upper  
106 100  
91 202.6 156.6 235.0

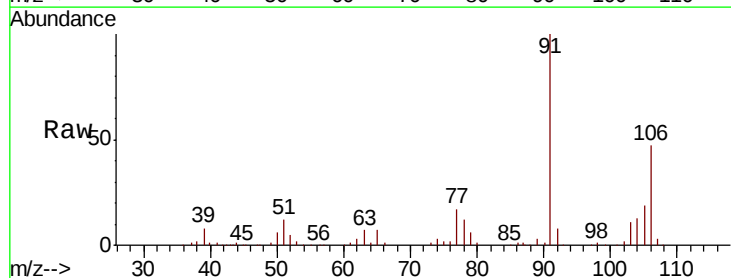


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

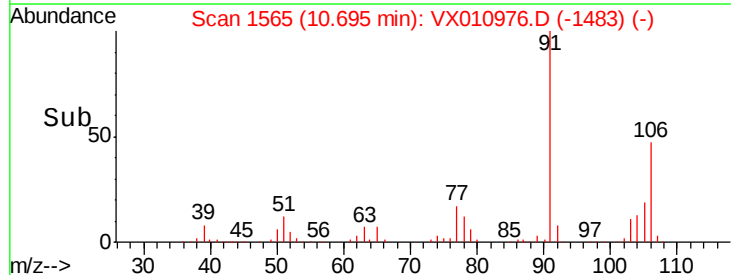
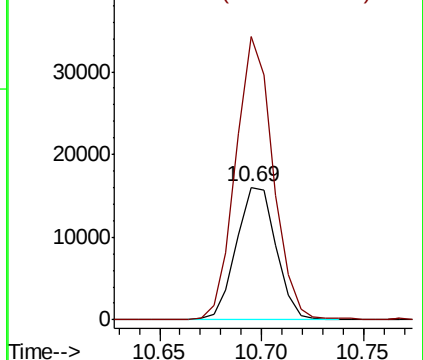


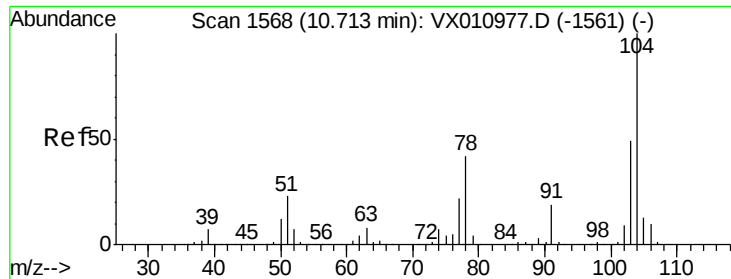
#68  
o-Xylene  
Concen: 5.088 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion:106 Resp: 21733  
Ion Ratio Lower Upper  
106 100  
91 201.4 104.0 312.0



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0





#69

Stvrene

Concen: 4.441 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampleId :

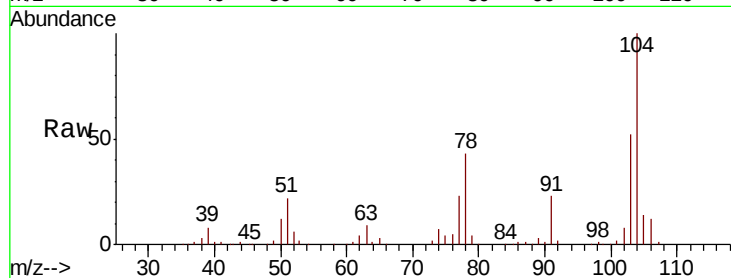
Tot Ion:104 Resp: 32908

Ion Ratio Lower Upper

104 100

78 49.3 38.5 57.7

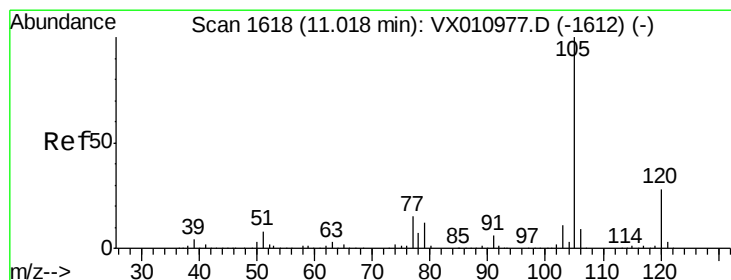
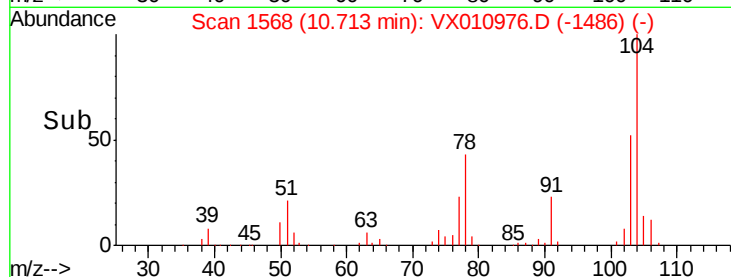
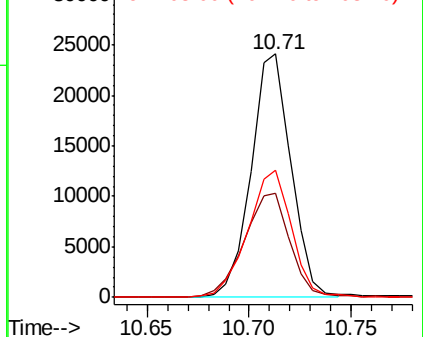
103 57.0 44.6 67.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#70

Isopropylbenzene

Concen: 4.775 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX010976.D

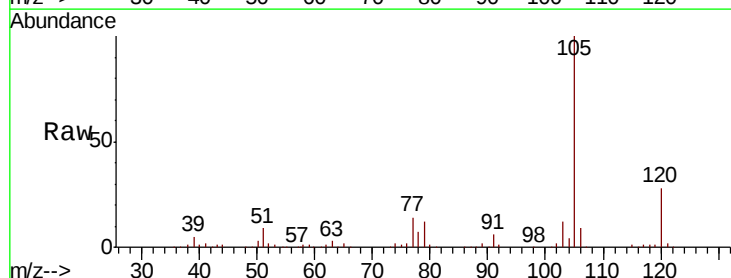
Acq: 18 Jul 2019 22:22

Tgt Ion:105 Resp: 54472

Ion Ratio Lower Upper

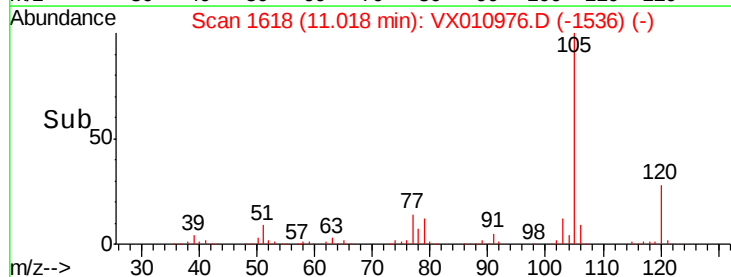
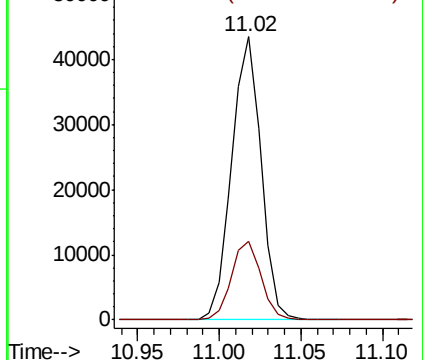
105 100

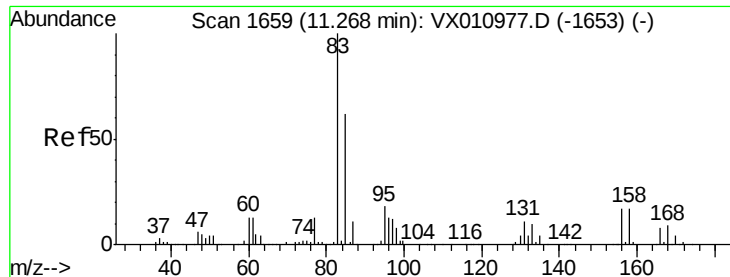
120 27.8 19.4 36.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

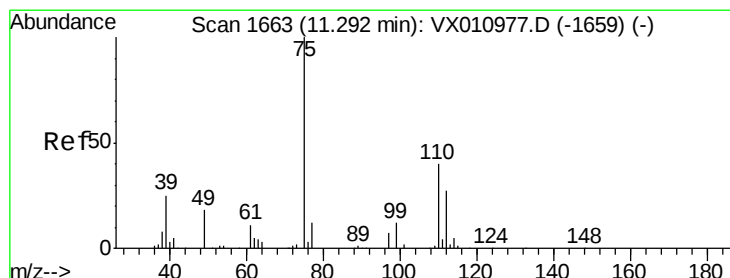
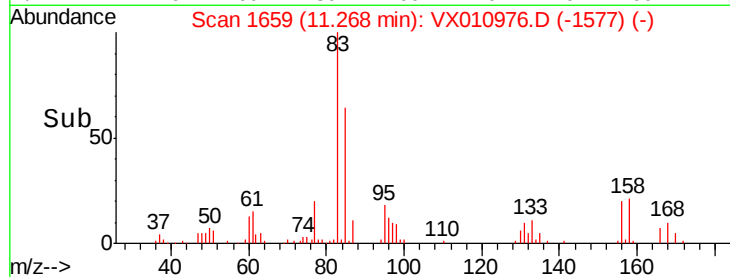
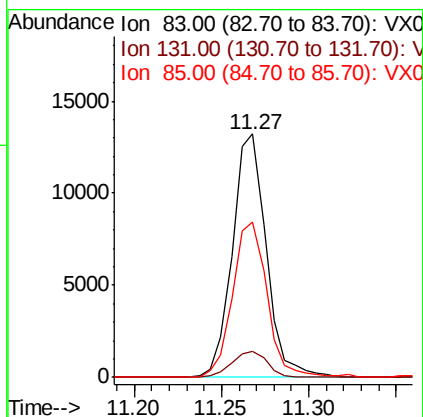
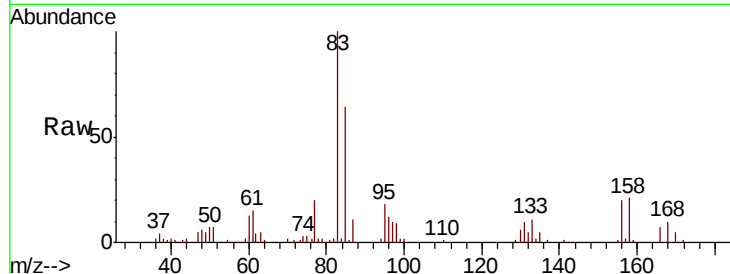




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 4.363 ug/l  
 RT: 11.27 min Scan# 1659  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

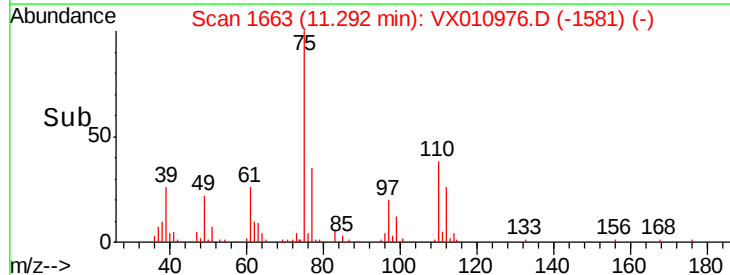
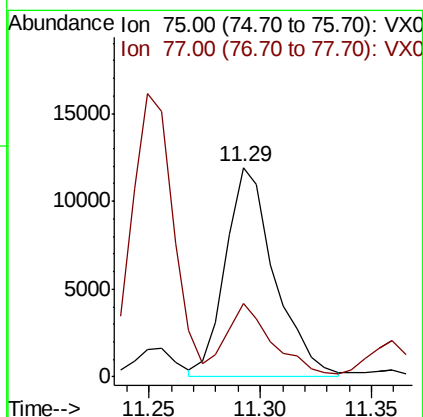
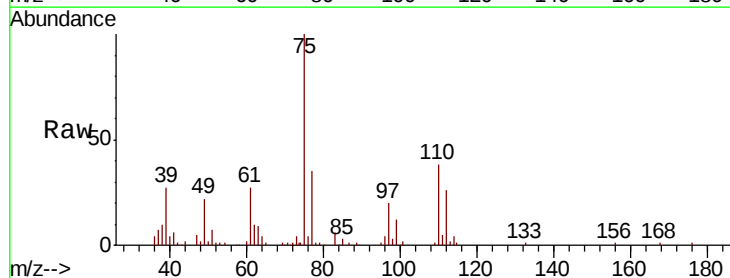
Instrument :  
 MSVOA\_X  
 ClientSampleId :

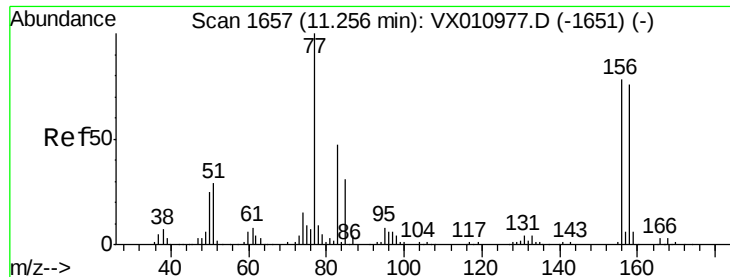
| Tot Ion   | 83   | Resp | 17865 |
|-----------|------|------|-------|
| Ion Ratio | 100  |      |       |
| Lower     | 5.5  |      |       |
| Upper     | 16.4 |      |       |
| 85        | 64.8 | 32.1 | 96.3  |



#72  
 1,2,3-Trichloropropane  
 Concen: 5.248 ug/l  
 RT: 11.29 min Scan# 1663  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

| Tgt Ion   | 75   | Resp | 18287 |
|-----------|------|------|-------|
| Ion Ratio | 100  |      |       |
| Lower     | 0.0  |      |       |
| Upper     | 84.0 |      |       |
| 77        | 33.9 |      |       |





#73

Bromobenzene

Concen: 5.316 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampleId :

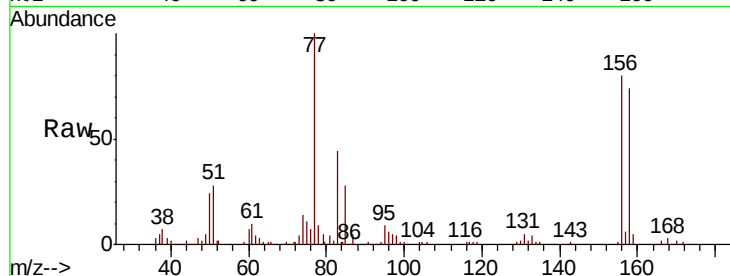
Tot Ion:156 Resp: 15281

Ion Ratio Lower Upper

156 100

77 137.9 0.0 275.8

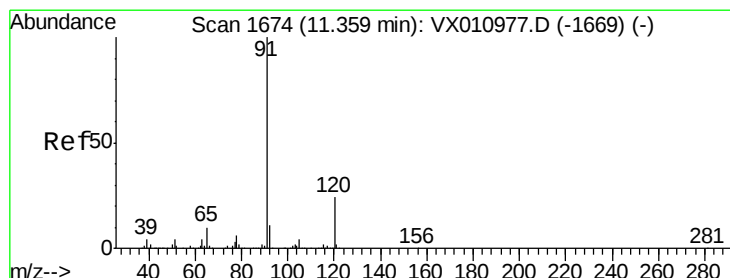
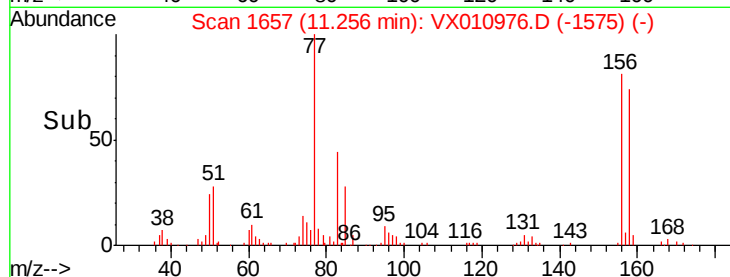
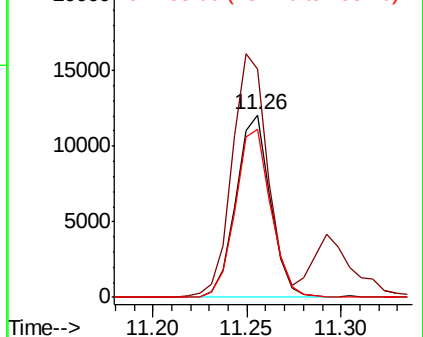
158 95.0 0.0 195.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 4.583 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX010976.D

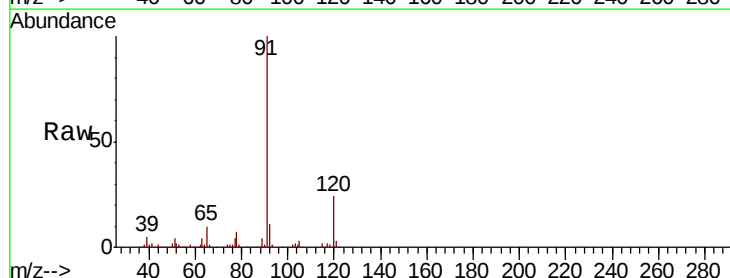
Acq: 18 Jul 2019 22:22

Tgt Ion: 91 Resp: 60281

Ion Ratio Lower Upper

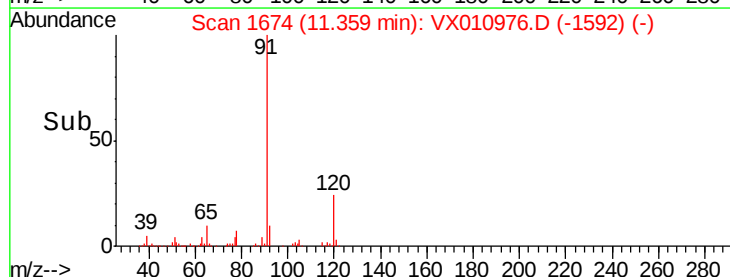
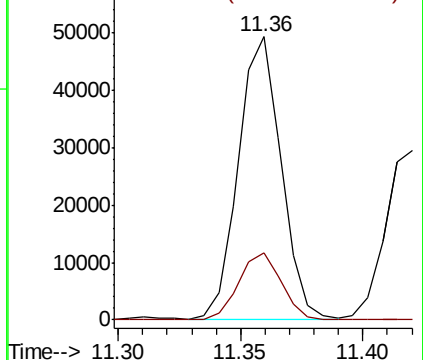
91 100

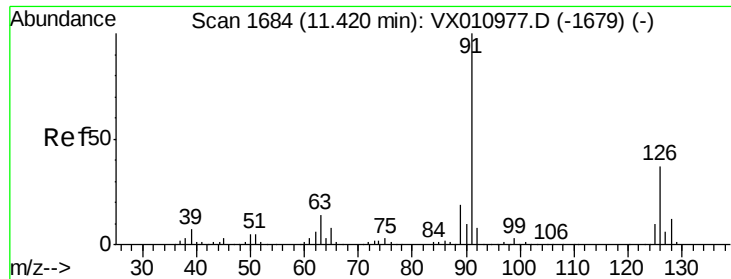
120 23.8 0.0 47.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 4.802 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

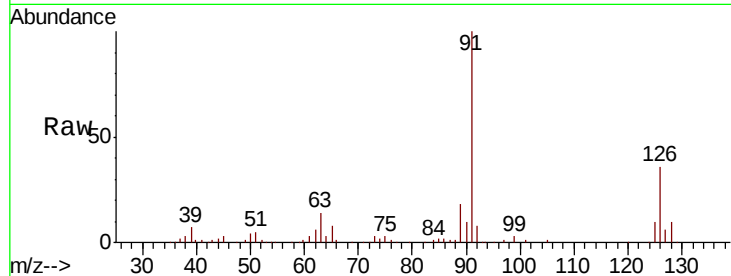
ClientSampleId :

Tot Ion: 91 Resp: 37777

Ion Ratio Lower Upper

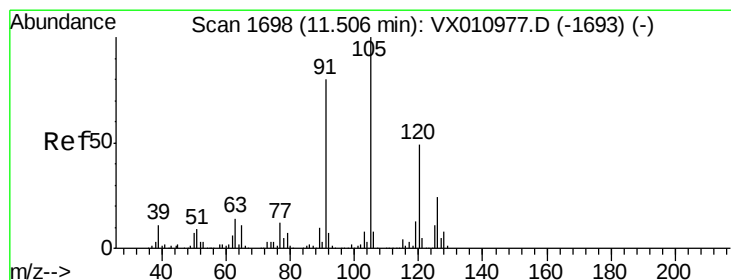
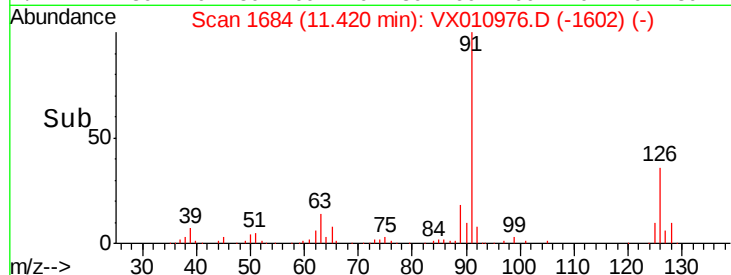
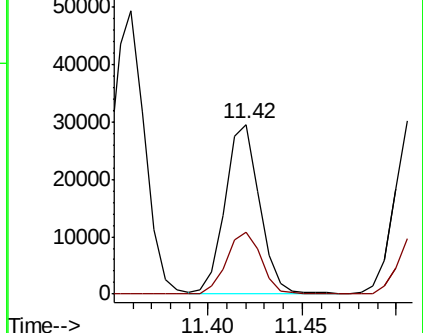
91 100

126 36.5 0.0 72.4



Abundance Ion 91.00 (90.70 to 91.70): VX010977.D (-1679) (-)

Ion 126.00 (125.70 to 126.70): VX010977.D (-1679) (-)



#76

1,3,5-Trimethylbenzene

Concen: 4.697 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX010976.D

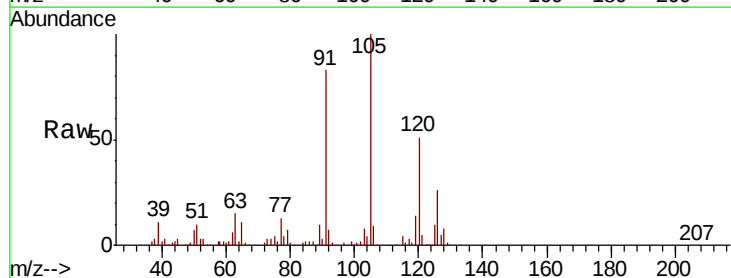
Acq: 18 Jul 2019 22:22

Tgt Ion: 105 Resp: 45487

Ion Ratio Lower Upper

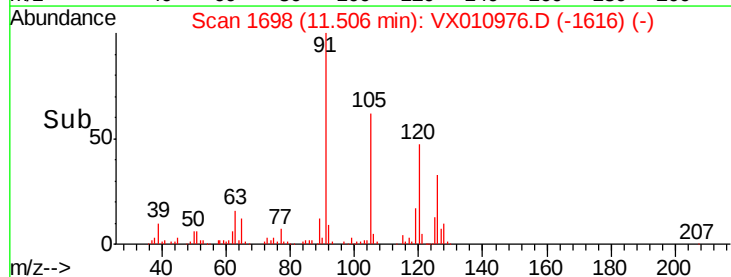
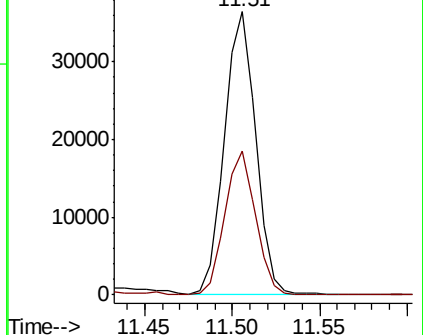
105 100

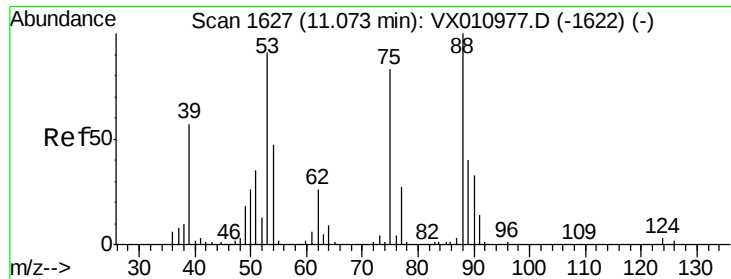
120 49.9 0.0 96.6



Abundance Ion 105.00 (104.70 to 105.70): VX010977.D (-1693) (-)

Ion 120.00 (119.70 to 120.70): VX010977.D (-1693) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 2.392 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampleId :

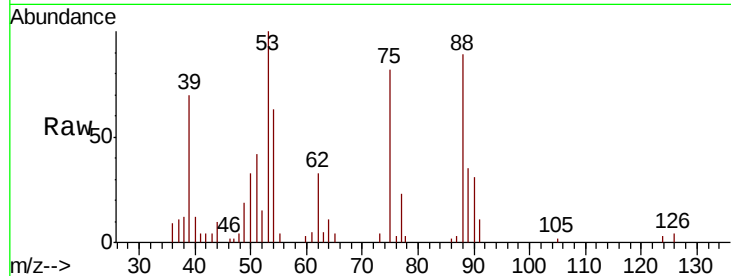
Tot Ion: 75 Resp: 3249

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 53  | 117.8 | 54.8  | 164.3 |
| 89  | 39.8  | 24.6  | 73.6  |

75 100

53 117.8 54.8 164.3

89 39.8 24.6 73.6

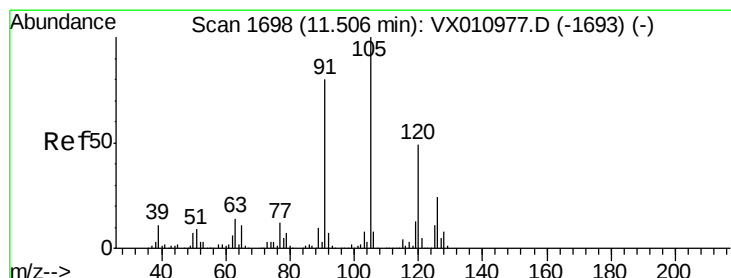
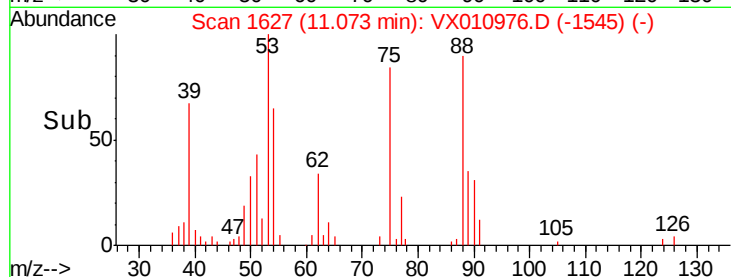
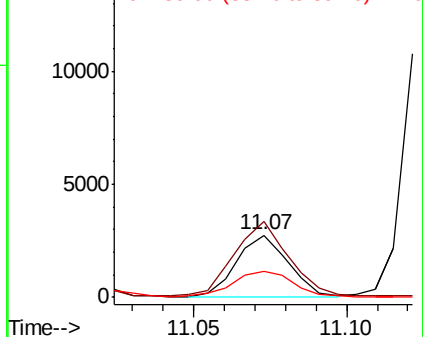


Abundance

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: 4.682 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.01 min

Lab File: VX010976.D

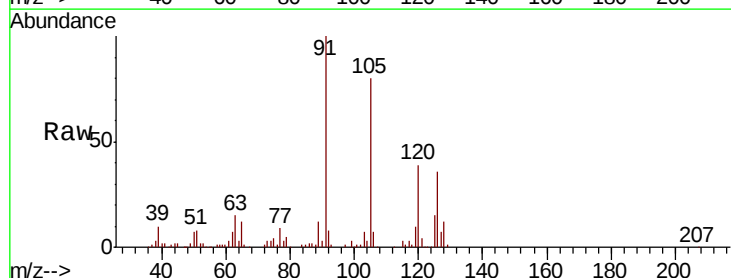
Acq: 18 Jul 2019 22:22

Tgt Ion: 91 Resp: 41964

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 31.7  | 0.0   | 63.6  |

91 100

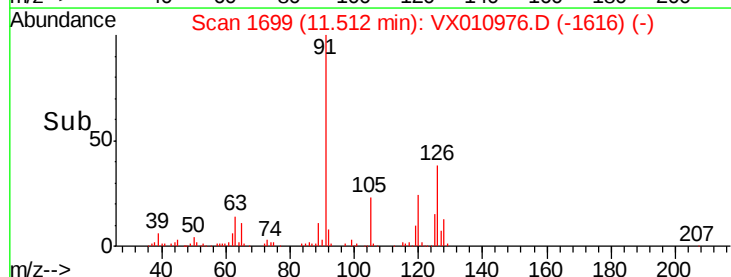
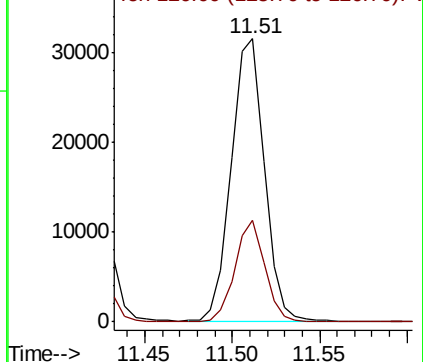
126 31.7 0.0 63.6

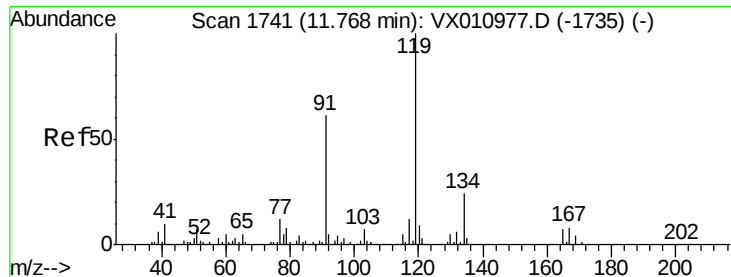


Abundance

Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V

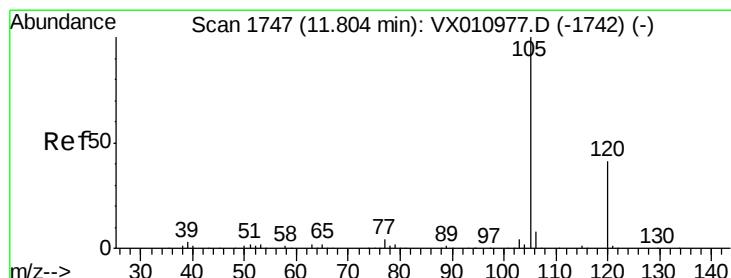
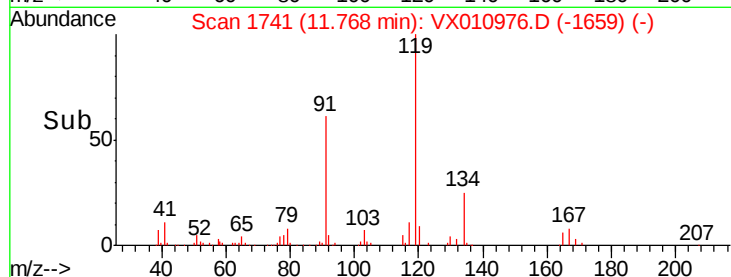
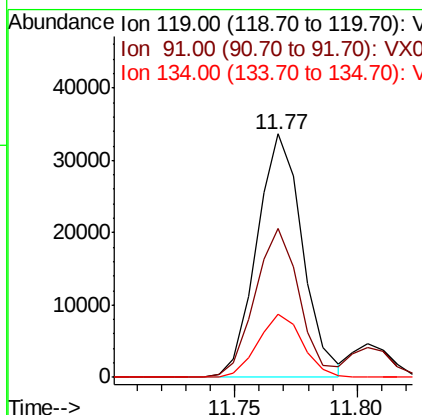
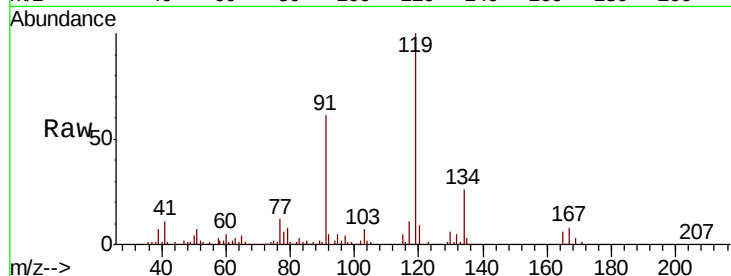




#79  
tert-butylbenzene  
Concen: 4.709 ug/l  
RT: 11.77 min Scan# 1741  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

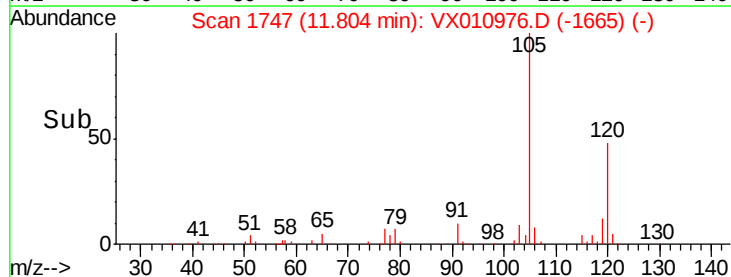
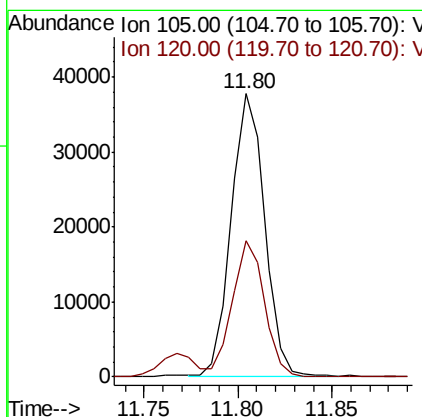
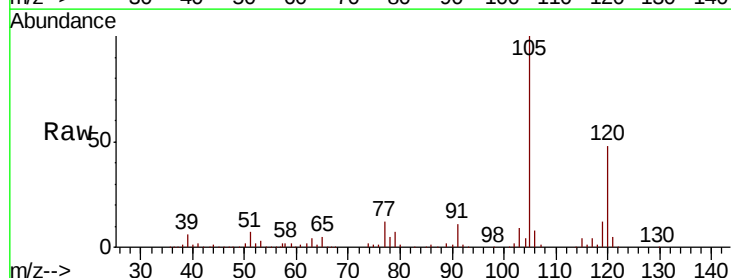
Instrument :  
MSVOA\_X  
ClientSampleId :

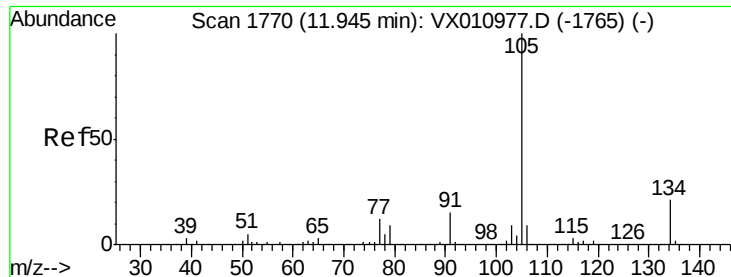
Tot Ion:119 Resp: 43995  
Ion Ratio Lower Upper  
119 100  
91 59.9 0.0 118.4  
134 25.4 0.0 47.4



#80  
1,2,4-Trimethylbenzene  
Concen: 4.796 ug/l  
RT: 11.80 min Scan# 1747  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion:105 Resp: 46604  
Ion Ratio Lower Upper  
105 100  
120 46.6 0.0 91.6

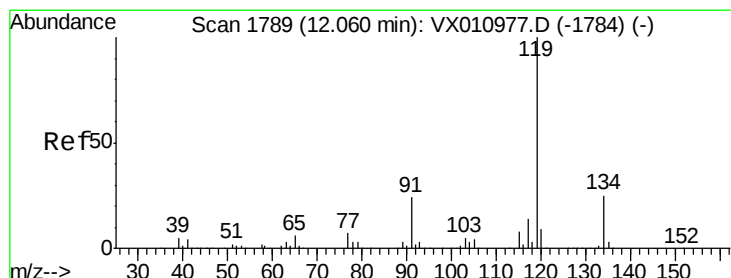
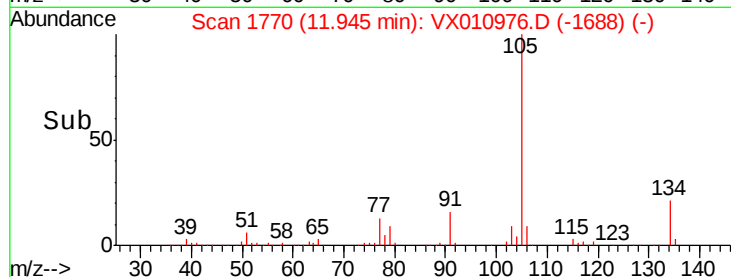
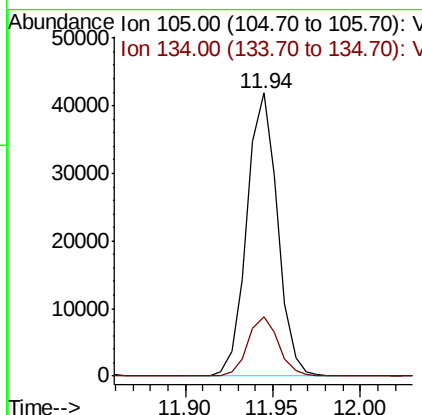
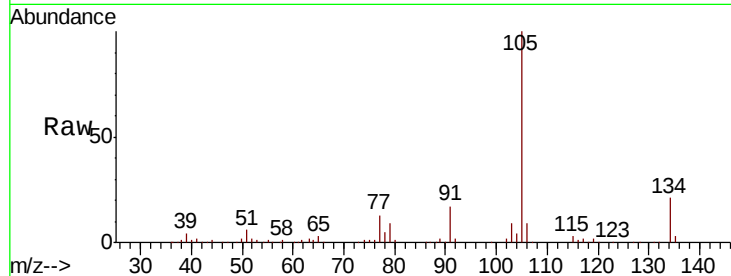




#81  
 sec-Butylbenzene  
 Concen: 4.588 ug/l  
 RT: 11.94 min Scan# 1770  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

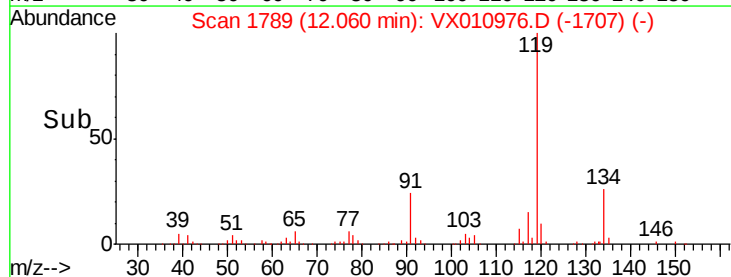
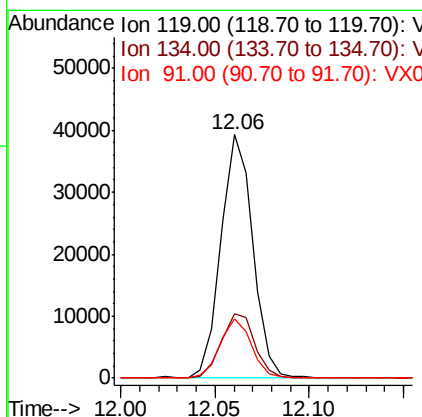
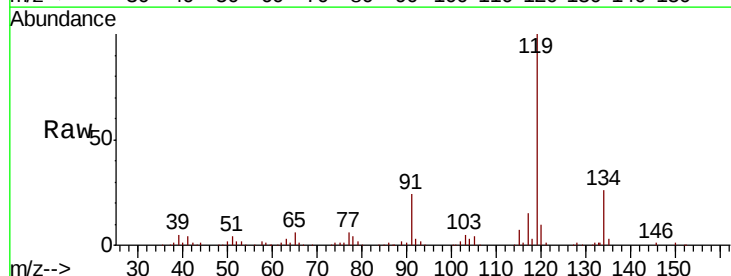
Instrument :  
 MSVOA\_X  
 ClientSampleId :

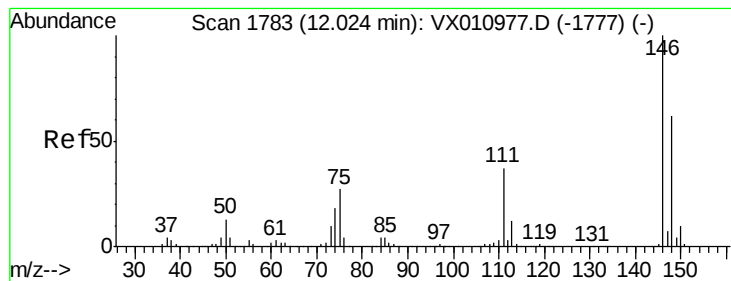
Tot Ion:105 Resp: 50989  
 Ion Ratio Lower Upper  
 105 100  
 134 21.0 0.0 41.8



#82  
 p-Isopropyltoluene  
 Concen: 4.553 ug/l  
 RT: 12.06 min Scan# 1789  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Tgt Ion:119 Resp: 46207  
 Ion Ratio Lower Upper  
 119 100  
 134 27.7 0.0 52.8  
 91 23.8 0.0 47.0





#83

1,3-Dichlorobenzene

Concen: 4.992 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

Instrument :

MSVOA\_X

ClientSampled :

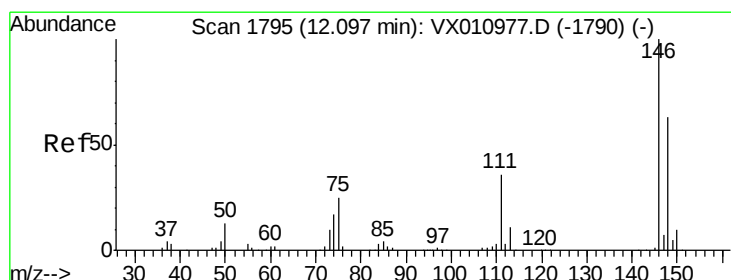
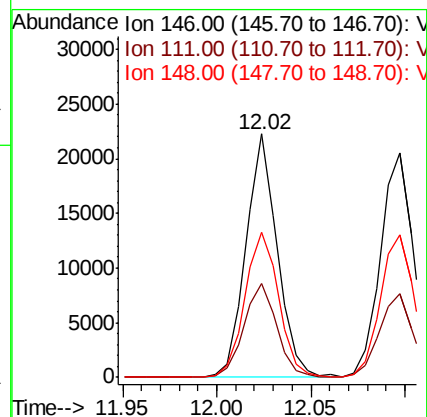
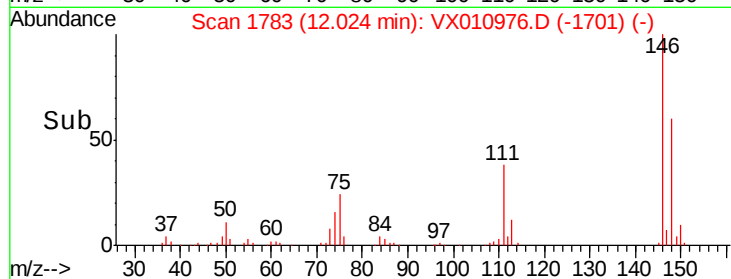
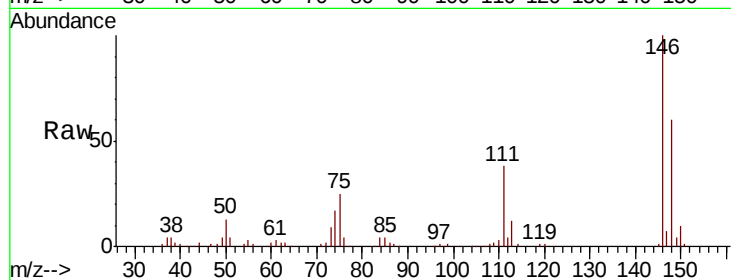
Tot Ion:146 Resp: 25655

Ion Ratio Lower Upper

146 100

111 40.4 18.9 56.9

148 64.1 31.4 94.0



#84

1,4-Dichlorobenzene

Concen: 4.837 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX010976.D

Acq: 18 Jul 2019 22:22

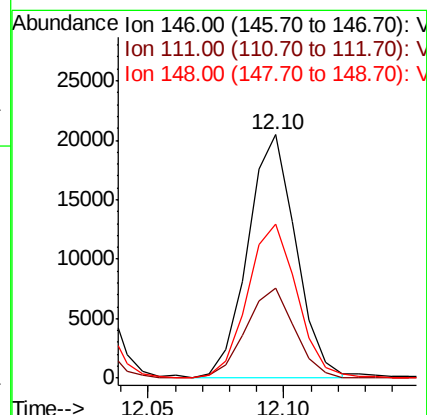
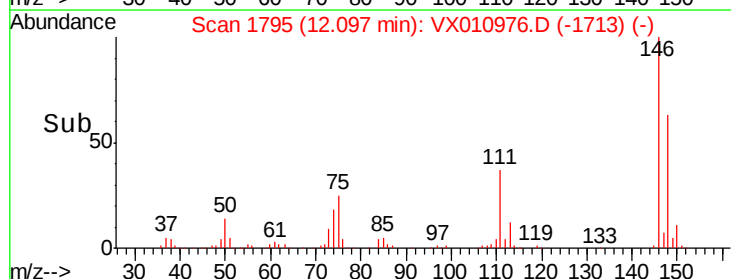
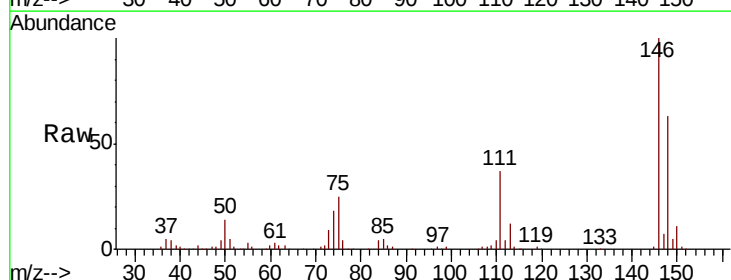
Tgt Ion:146 Resp: 24849

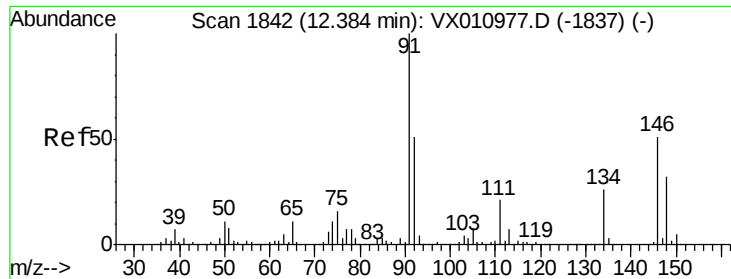
Ion Ratio Lower Upper

146 100

111 37.9 18.5 55.5

148 66.1 32.0 96.0

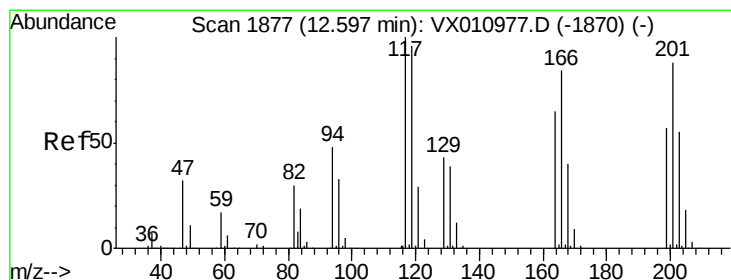
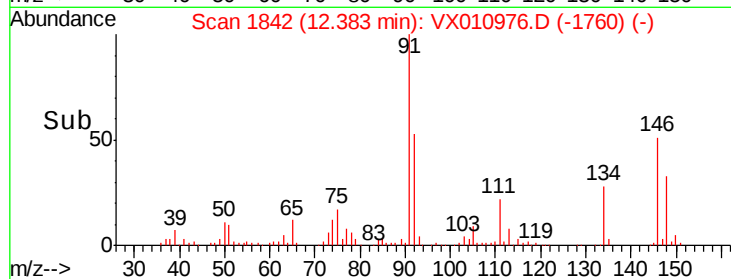
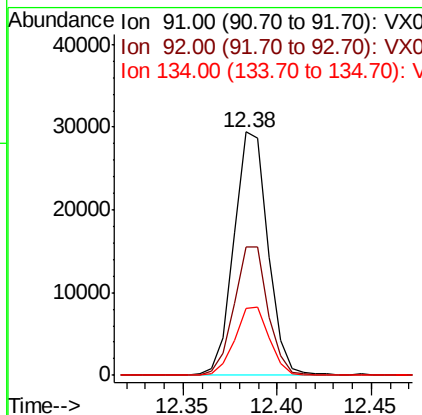
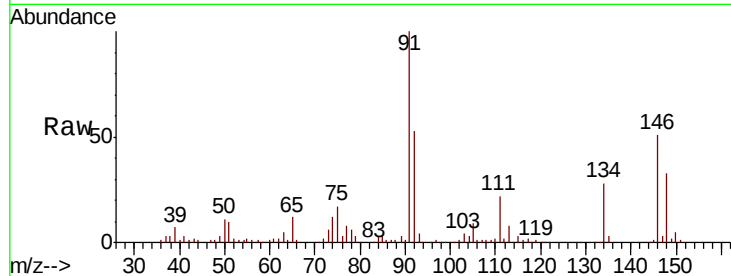




#85  
n-Butylbenzene  
Concen: 4.019 ug/l  
RT: 12.38 min Scan# 1842  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

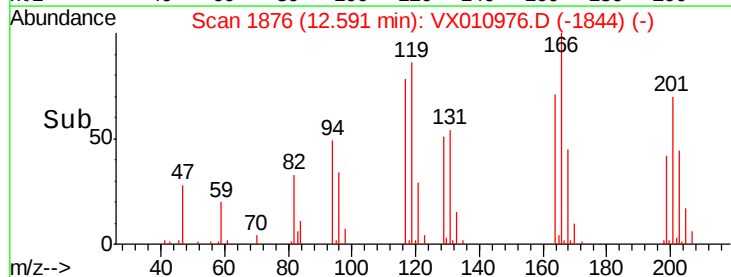
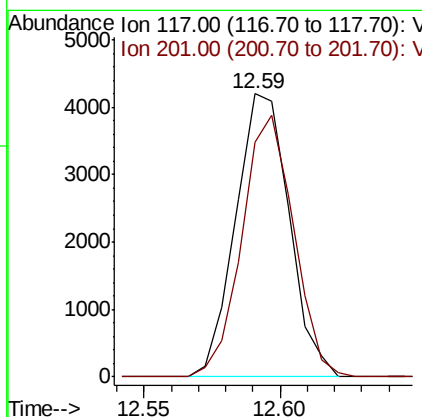
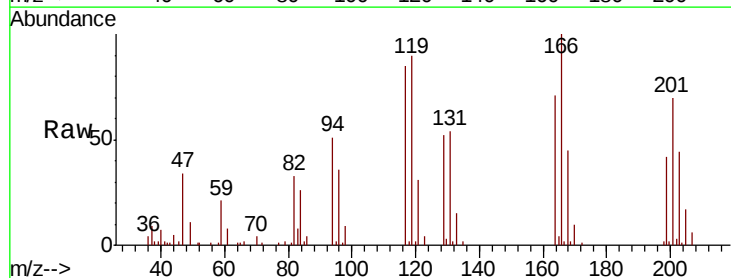
Instrument :  
MSVOA\_X  
ClientSampleId :

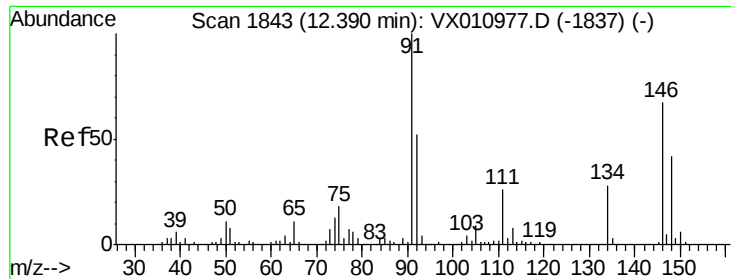
Tot Ion: 91 Resp: 36897  
Ion Ratio Lower Upper  
91 100  
92 52.6 0.0 103.6  
134 28.5 0.0 54.2



#86  
Hexachloroethane  
Concen: 3.432 ug/l  
RT: 12.59 min Scan# 1876  
Delta R.T. -0.01 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion: 117 Resp: 5744  
Ion Ratio Lower Upper  
117 100  
201 88.8 42.1 126.3

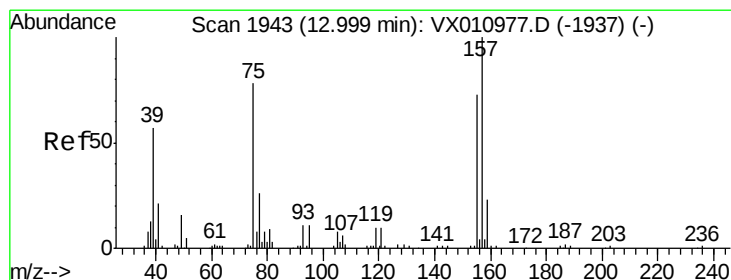
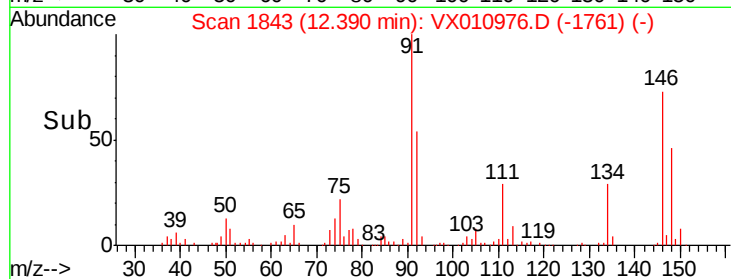
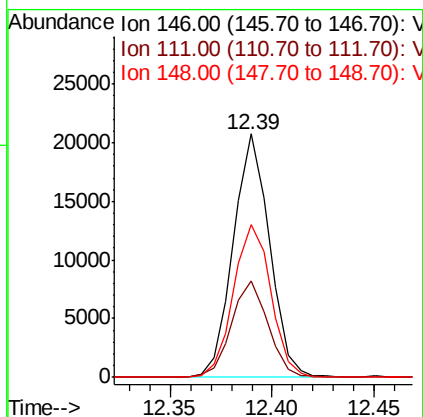
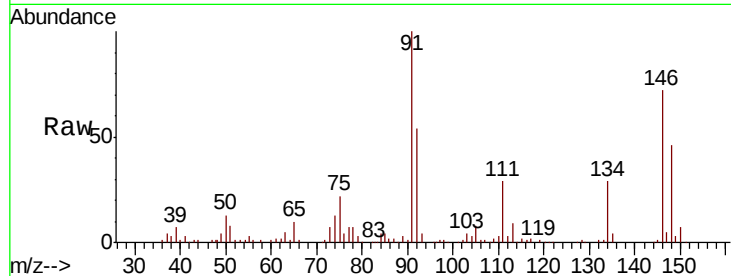




#87  
 1,2-Dichlorobenzene  
 Concen: 4.945 ug/l  
 RT: 12.39 min Scan# 1843  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

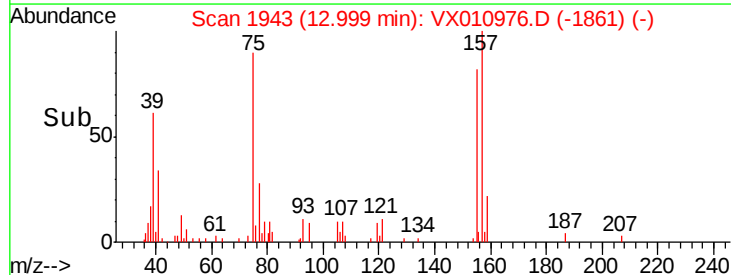
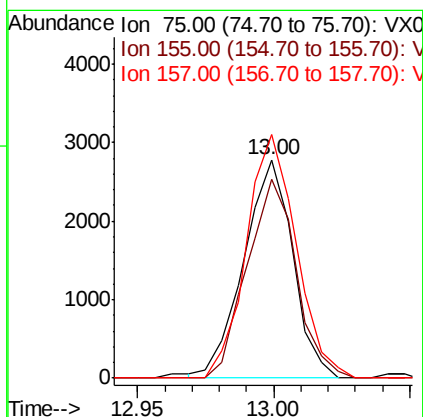
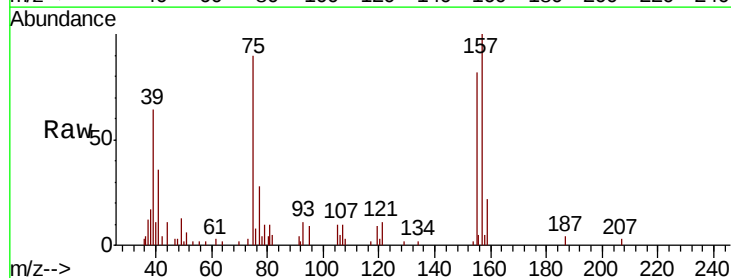
Instrument :  
 MSVOA\_X  
 ClientSampleId :

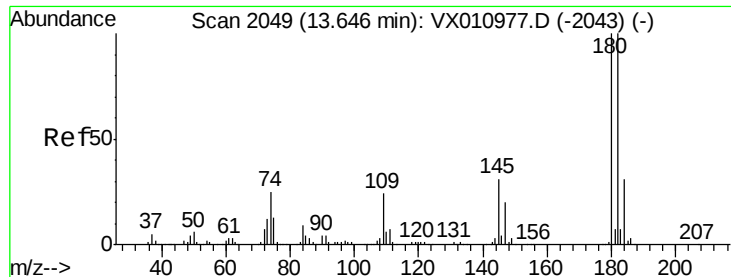
Tot Ion:146 Resp: 25582  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 19.5 58.5  
 148 64.8 31.5 94.5



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 3.708 ug/l  
 RT: 13.00 min Scan# 1943  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Tgt Ion: 75 Resp: 3475  
 Ion Ratio Lower Upper  
 75 100  
 155 91.4 76.6 115.0  
 157 113.6 101.0 151.4

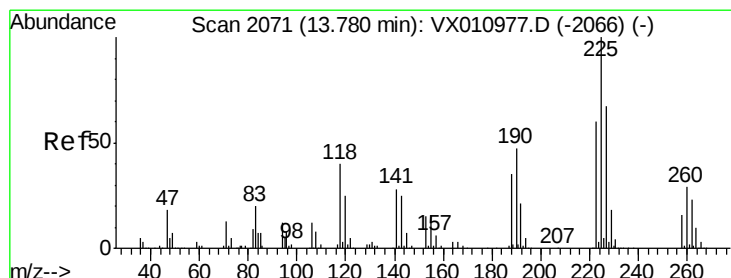
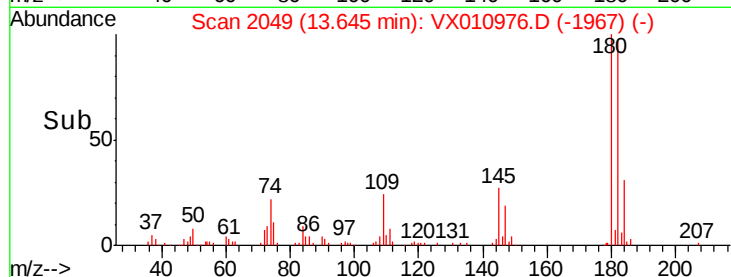
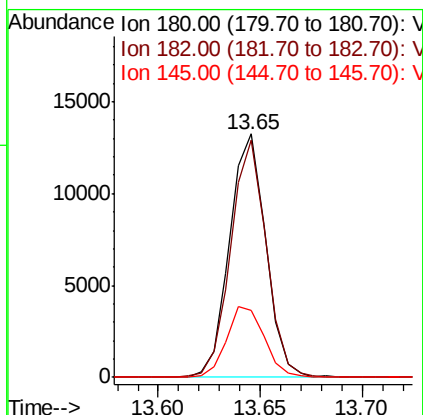
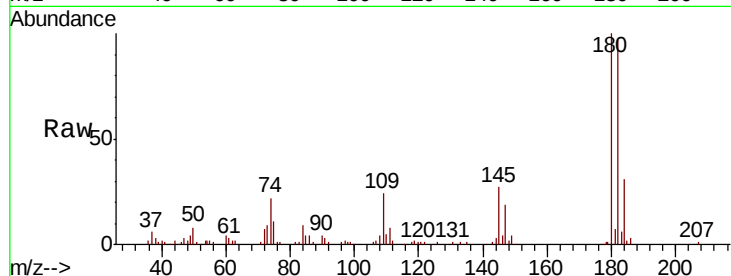




#89  
 1,2,4-Trichlorobenzene  
 Concen: 4.458 ug/l  
 RT: 13.65 min Scan# 2049  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

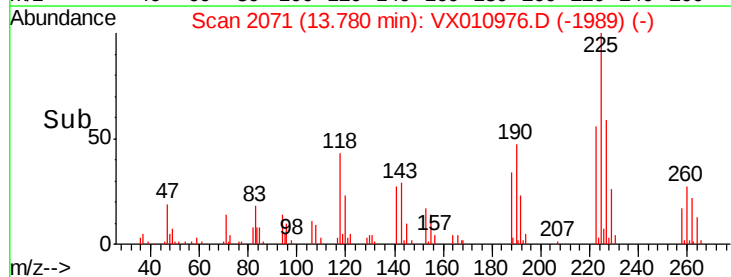
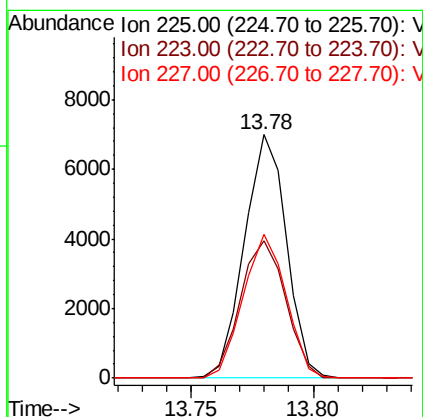
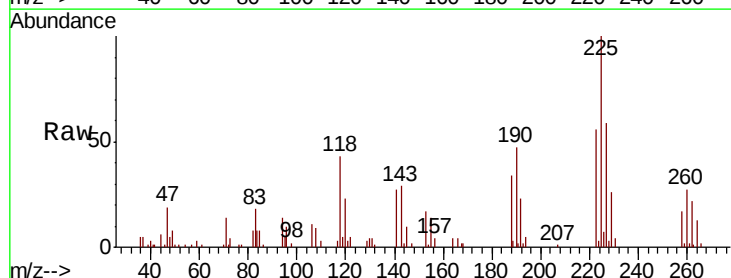
Instrument :  
 MSVOA\_X  
 ClientSampleId :

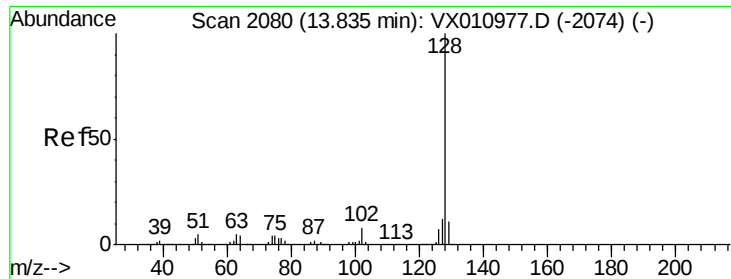
Tot Ion:180 Resp: 16278  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 77.6 116.4  
 145 30.3 23.8 35.6



#90  
 Hexachlorobutadiene  
 Concen: 4.614 ug/l  
 RT: 13.78 min Scan# 2071  
 Delta R.T. -0.00 min  
 Lab File: VX010976.D  
 Acq: 18 Jul 2019 22:22

Tgt Ion:225 Resp: 8370  
 Ion Ratio Lower Upper  
 225 100  
 223 60.6 0.0 121.4  
 227 60.3 0.0 126.6

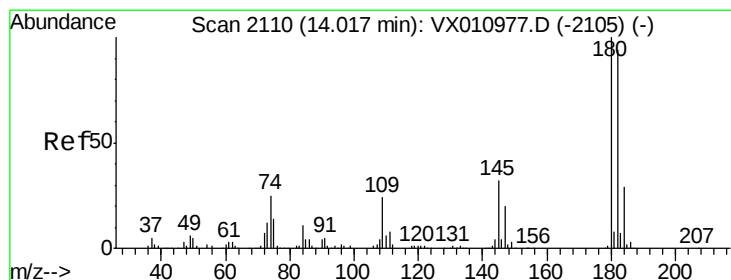
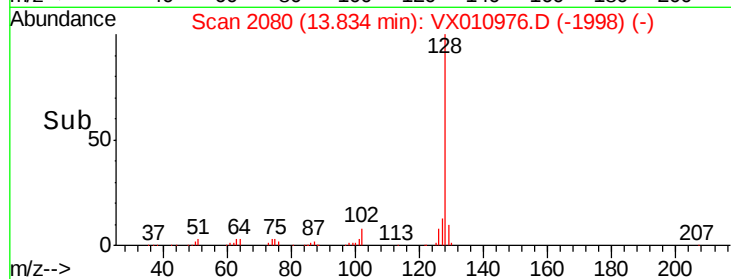
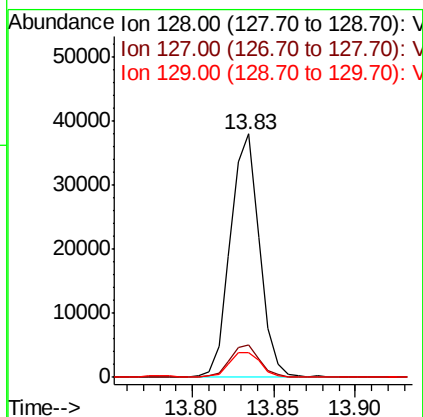
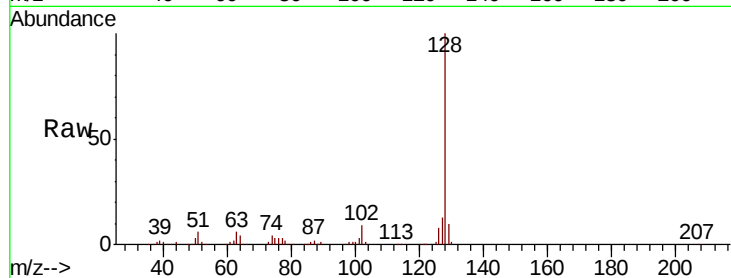




#91  
Naphthalene  
Concen: 4.012 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:128 Resp: 47268  
Ion Ratio Lower Upper  
128 100  
127 13.6 10.2 15.2  
129 11.2 8.5 12.7



#92  
1,2,3-Trichlorobenzene  
Concen: 4.519 ug/l  
RT: 14.02 min Scan# 2110  
Delta R.T. -0.00 min  
Lab File: VX010976.D  
Acq: 18 Jul 2019 22:22

Tgt Ion:180 Resp: 16688  
Ion Ratio Lower Upper  
180 100  
182 93.3 0.0 190.2  
145 32.0 0.0 63.8

