

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX102320\NOT REVIEWED DATA\  
 Data File : VX019072.D  
 Acq On : 23 Oct 2020 11:23  
 Operator : JC/SP  
 Sample : VSTDIC150  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDIC150

Quant Time: Oct 23 19:20:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 23 14:24:17 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 4.98  | 128  | 46949    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.83  | 114  | 263197   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 231748   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.03   | 65    | 91684    | 29.32    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 91 - 110 | Recovery | =    | 97.73%  |
| 60) 4-Bromofluorobenzene  | 11.12  | 95    | 111562   | 32.07    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 63 - 112 | Recovery | =    | 106.90% |
| 63) Toluene-d8            | 8.70   | 98    | 310717   | 30.37    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 91 - 112 | Recovery | =    | 101.23% |

## Target Compounds

|                               |      |     |         |         | Ovalue     |
|-------------------------------|------|-----|---------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 371489  | 157.452 | ug/l 98    |
| 3) Chloromethane              | 1.31 | 50  | 306838  | 143.928 | ug/l 100   |
| 4) Vinyl Chloride             | 1.39 | 62  | 436606  | 156.262 | ug/l 97    |
| 5) Bromomethane               | 1.62 | 94  | 162529  | 75.659  | ug/l 98    |
| 6) Chloroethane               | 1.70 | 64  | 295055  | 155.831 | ug/l 99    |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 776571  | 159.614 | ug/l 96    |
| 8) Diethyl Ether              | 2.17 | 74  | 293250  | 160.797 | ug/l 99    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 368168  | 158.370 | ug/l 98    |
| 10) 1,1-Dichloroethene        | 2.35 | 96  | 378385  | 160.104 | ug/l 97    |
| 11) Methyl Iodide             | 2.49 | 142 | 437485  | 148.188 | ug/l 96    |
| 12) Methyl Acetate            | 2.75 | 43  | 374890  | 160.234 | ug/l 97    |
| 13) Acrolein                  | 2.27 | 56  | 195667  | 908.280 | ug/l 97    |
| 14) Acrylonitrile             | 3.12 | 53  | 863934  | 785.997 | ug/l 99    |
| 15) Acetone                   | 2.42 | 58  | 259670  | 824.692 | ug/l 94    |
| 16) Carbon Disulfide          | 2.55 | 76  | 1045513 | 159.157 | ug/l 100   |
| 17) Allyl chloride            | 2.70 | 41  | 477099  | 161.610 | ug/l 98    |
| 18) Methylene Chloride        | 2.83 | 84  | 419051  | 155.477 | ug/l 98    |
| 19) trans-1,2-Dichloroethene  | 3.14 | 96  | 443734  | 160.756 | ug/l 96    |
| 20) Diisopropyl ether         | 3.82 | 45  | 941451  | 157.421 | ug/l 98    |
| 21) 1,1-Dichloroethane        | 3.67 | 63  | 693459  | 157.933 | ug/l 99    |
| 22) cis-1,2-Dichloroethene    | 4.56 | 96  | 501816  | 156.944 | ug/l 99    |
| 23) tert-Butyl Alcohol        | 3.03 | 59  | 448428  | 841.518 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 3.17 | 73  | 1189728 | 159.200 | ug/l 98    |
| 25) Chloroform                | 5.18 | 83  | 768214  | 157.902 | ug/l 96    |
| 26) Cyclohexane               | 5.55 | 56  | 533486  | 156.352 | ug/l # 99  |
| 29) 1,1-Dichloropropene       | 5.77 | 75  | 579525  | 156.080 | ug/l 99    |
| 30) 2-Butanone                | 4.64 | 43  | 1174403 | 793.948 | ug/l 99    |
| 31) 2,2-Dichloropropane       | 4.55 | 77  | 662596  | 155.967 | ug/l 100   |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 708692  | 158.802 | ug/l 99    |
| 33) Carbon Tetrachloride      | 5.76 | 117 | 624190  | 161.170 | ug/l 97    |
| 34) Benzene                   | 6.11 | 78  | 1697662 | 155.392 | ug/l 97    |
| 35) Methacrylonitrile         | 5.01 | 41  | 252510  | 157.691 | ug/l 95    |
| 36) 1,2-Dichloroethane        | 6.17 | 62  | 577307  | 154.045 | ug/l 100   |
| 37) Trichloroethene           | 7.19 | 130 | 493986  | 157.308 | ug/l 97    |
| 38) Methylcyclohexane         | 7.44 | 83  | 652339  | 156.739 | ug/l 100   |
| 39) 1,2-Dichloropropane       | 7.49 | 63  | 397773  | 156.852 | ug/l 99    |
| 40) Dibromomethane            | 7.64 | 93  | 306777  | 155.872 | ug/l 98    |

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 ALS Vial : 6 Sample Multiplier: 1

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 MSVOA\_V  
 ClientSampleId :  
 VSTDICC150

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 23 14:24:17 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 41) Bromodichloromethane       | 7.88  | 83   | 613804   | 157.747  | ug/l  | 99       |
| 42) Vinyl Acetate              | 3.79  | 43   | 4549399  | 790.445  | ug/l  | 98       |
| 43) Ethyl Acetate              | 4.79  | 43   | 476824   | 153.662  | ug/l  | 99       |
| 44) Isopropyl Acetate          | 6.42  | 43   | 805784   | 155.071  | ug/l  | 100      |
| 45) 1,4-Dioxane                | 7.72  | 88   | 183348   | 3356.954 | ug/l  | 98       |
| 46) Methyl methacrylate        | 7.74  | 41   | 381135   | 154.973  | ug/l  | 98       |
| 47) n-amyl Acetate             | 10.88 | 43   | 693800   | 166.458  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene      | 9.02  | 75   | 689190   | 158.214  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene    | 8.42  | 75   | 728519   | 157.161  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane      | 9.20  | 97   | 439783   | 154.272  | ug/l  | 98       |
| 51) Ethyl methacrylate         | 9.16  | 69   | 652656   | 156.906  | ug/l  | 99       |
| 52) 1,3-Dichloropropane        | 9.35  | 76   | 701819   | 151.123  | ug/l  | 99       |
| 53) Dibromochloromethane       | 9.57  | 129  | 515505   | 162.444  | ug/l  | 98       |
| 54) 1,2-Dibromoethane          | 9.65  | 107  | 470589   | 151.919  | ug/l  | 97       |
| 55) 2-Chloroethyl vinyl ether  | 8.29  | 63   | 1802845  | 811.018  | ug/l  | 98       |
| 56) Bromoform                  | 10.84 | 173  | 393571   | 177.400  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone       | 8.62  | 43   | 2308752  | 789.986  | ug/l  | 98       |
| 59) 2-Hexanone                 | 9.48  | 43   | 1767052  | 811.393  | ug/l  | 99       |
| 61) Tetrachloroethene          | 9.32  | 164  | 421801   | 153.420  | ug/l  | 93       |
| 62) Toluene                    | 8.77  | 91   | 1920069  | 157.642  | ug/l  | 100      |
| 64) Chlorobenzene              | 10.12 | 112  | 1201171  | 158.647  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 450569   | 163.627  | ug/l  | 99       |
| 66) Ethyl Benzene              | 10.24 | 91   | 2114717  | 158.365  | ug/l  | 95       |
| 67) m/p-Xylenes                | 10.34 | 106  | 1661690  | 326.297  | ug/l  | 97       |
| 68) o-Xylene                   | 10.68 | 106  | 798866   | 164.478  | ug/l  | 98       |
| 69) Styrene                    | 10.70 | 104  | 1387510  | 169.554  | ug/l  | 99       |
| 70) Isopropylbenzene           | 11.00 | 105  | 2114084  | 161.882  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 648600   | 172.033  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane     | 11.28 | 75   | 763909   | 225.311  | ug/l  | 86       |
| 73) Bromobenzene               | 11.24 | 156  | 537640   | 168.451  | ug/l  | 96       |
| 74) n-propylbenzene            | 11.35 | 91   | 2438720  | 164.922  | ug/l  | 98       |
| 75) 2-Chlorotoluene            | 11.40 | 91   | 1391642  | 166.379  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 1795552  | 169.437  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene    | 11.06 | 75   | 239145   | 177.608  | ug/l  | 94       |
| 78) 4-Chlorotoluene            | 11.49 | 91   | 1664051  | 169.298  | ug/l  | 98       |
| 79) tert-butylbenzene          | 11.76 | 119  | 1784769  | 171.032  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 1782021  | 169.165  | ug/l  | 98       |
| 81) sec-Butylbenzene           | 11.93 | 105  | 2092477  | 169.463  | ug/l  | 99       |
| 82) p-Isopropyltoluene         | 12.05 | 119  | 1970296  | 173.139  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 12.01 | 146  | 993769   | 174.211  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene        | 12.08 | 146  | 1012431  | 174.801  | ug/l  | 99       |
| 85) n-Butylbenzene             | 12.37 | 91   | 1788721  | 175.550  | ug/l  | 98       |
| 86) Hexachloroethane           | 12.58 | 117  | 324732   | 185.788  | ug/l  | 99       |
| 87) 1,2-Dichlorobenzene        | 12.38 | 146  | 957602   | 175.349  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 151872   | 177.983  | ug/l  | 97       |
| 89) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 682164   | 173.578  | ug/l  | 98       |
| 90) Hexachlorobutadiene        | 13.77 | 225  | 292479   | 175.522  | ug/l  | 98       |
| 91) Naphthalene                | 13.82 | 128  | 2261340  | 175.770  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene     | 14.00 | 180  | 654298   | 173.072  | ug/l  | 98       |

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Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDICC150

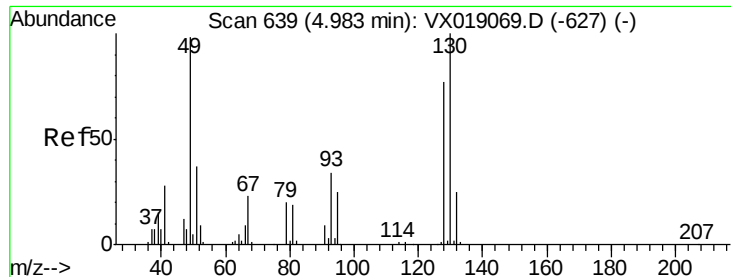
Quant Time: Oct 23 19:20:31 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Oct 23 14:24:17 2020  
Response via : Initial Calibration

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

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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

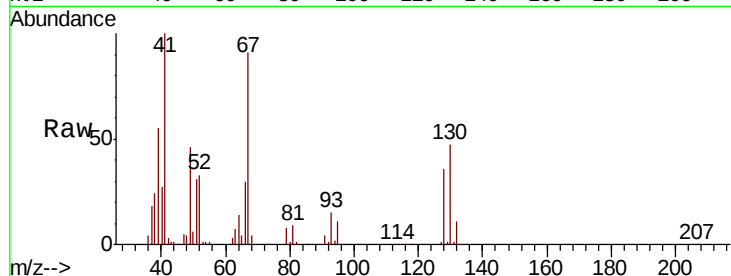
Tot Ion:128 Resp: 46949

Ion Ratio Lower Upper

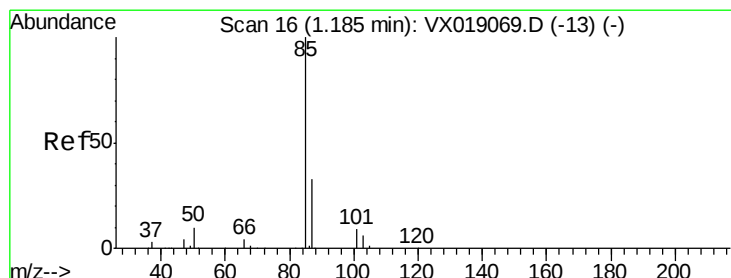
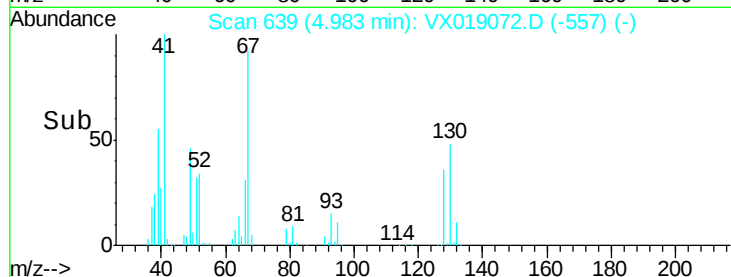
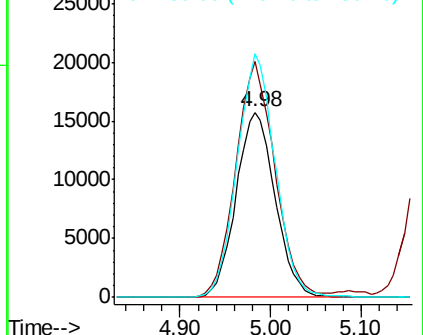
128 100

49 128.3 0.0 318.8

130 128.0 0.0 321.8



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: 157.452 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019072.D

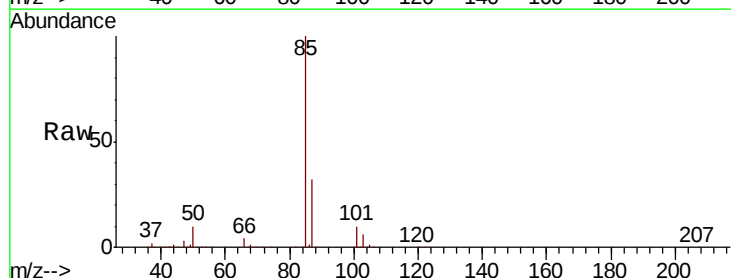
Acq: 23 Oct 2020 11:23

Tgt Ion: 85 Resp: 371489

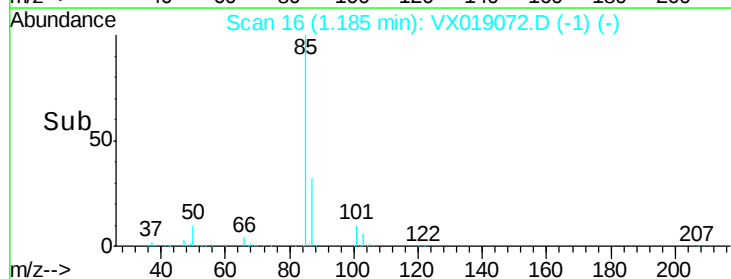
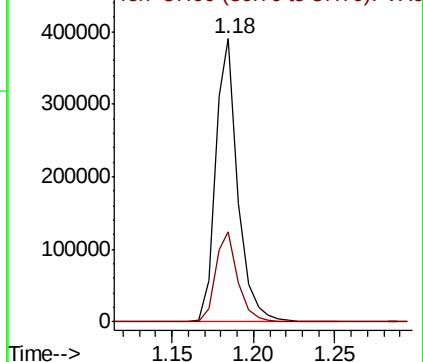
Ion Ratio Lower Upper

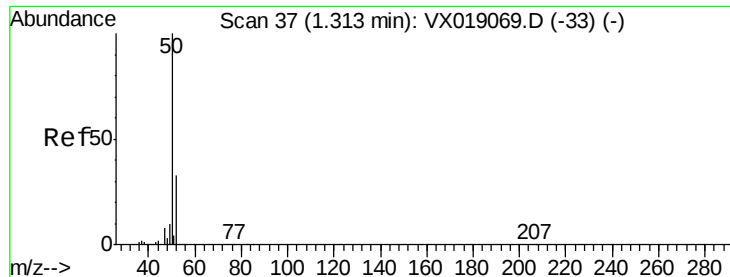
85 100

87 31.9 16.6 49.7



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





#3

Chloromethane

Concen: 143.928 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

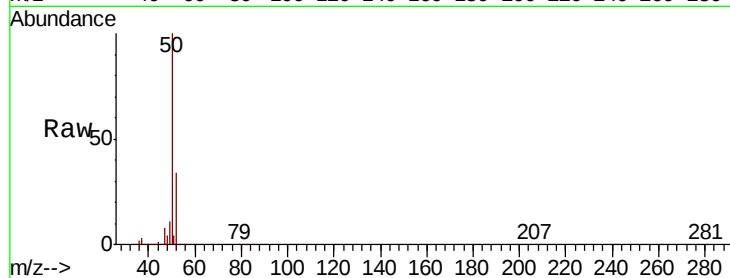
VSTDIC150

Tot Ion: 50 Resp: 306838

Ion Ratio Lower Upper

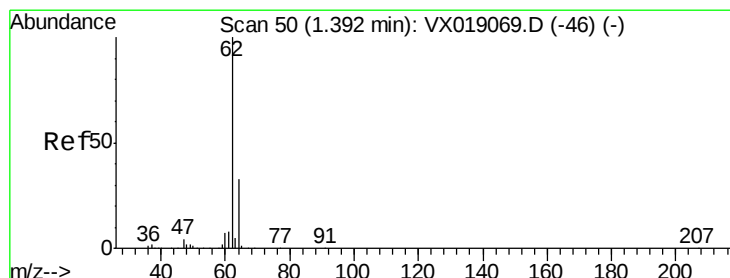
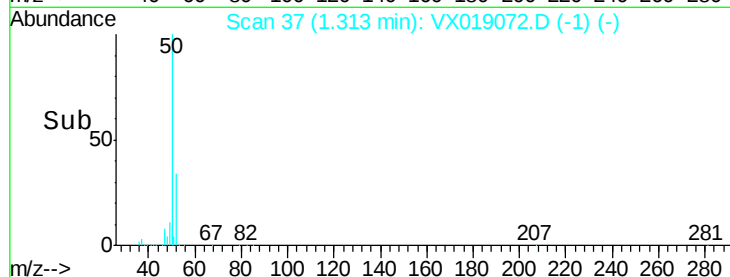
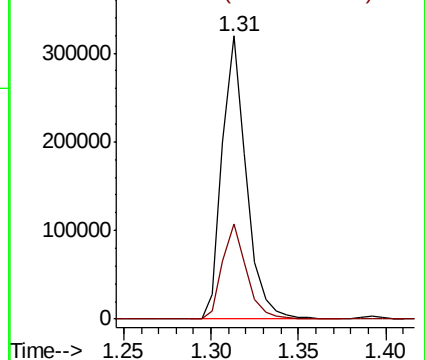
50 100

52 33.7 26.7 40.1



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#4

Vinyl Chloride

Concen: 156.262 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019072.D

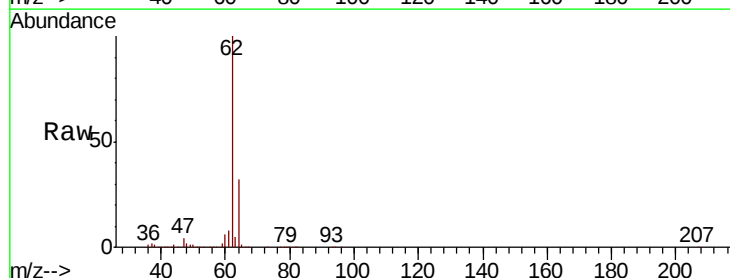
Acq: 23 Oct 2020 11:23

Tgt Ion: 62 Resp: 436606

Ion Ratio Lower Upper

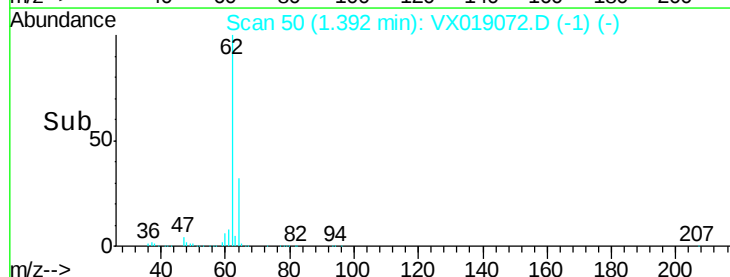
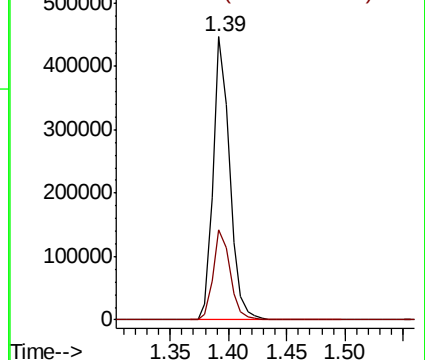
62 100

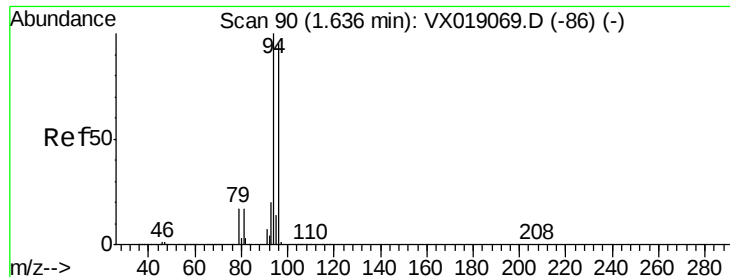
64 31.9 26.7 40.1



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0





#5

Bromomethane

Concen: 75.659 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

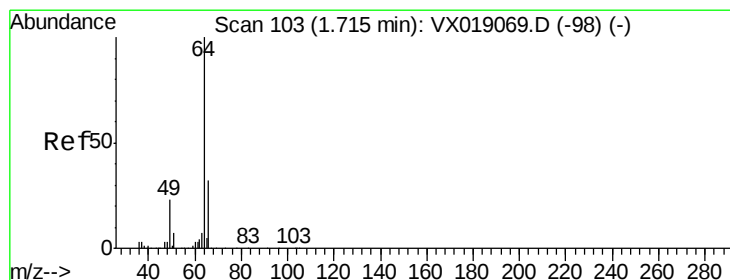
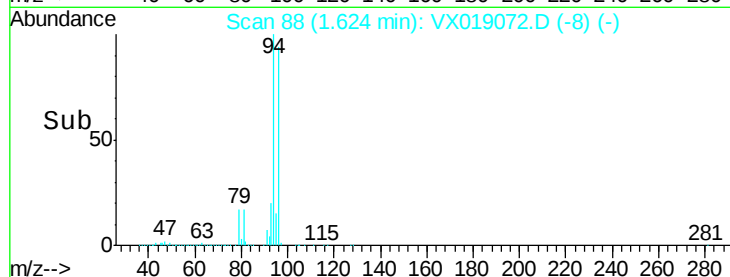
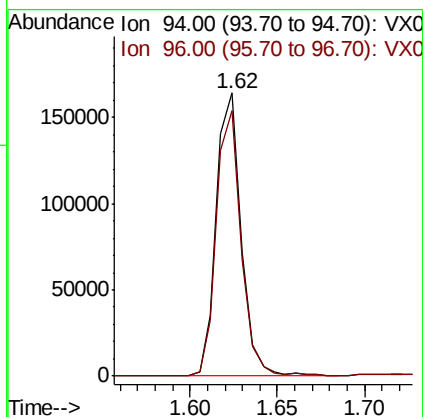
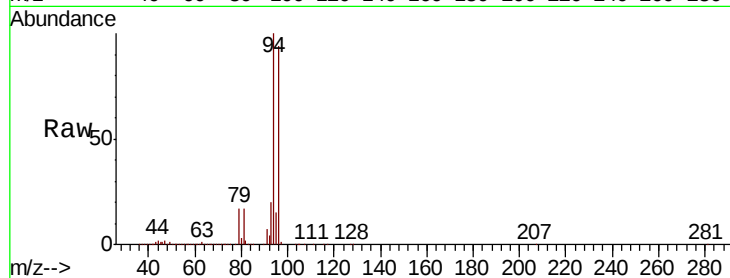
VSTDIC150

Tot Ion: 94 Resp: 162529

Ion Ratio Lower Upper

94 100

96 93.7 76.2 114.2



#6

Chloroethane

Concen: 155.831 ug/l

RT: 1.70 min Scan# 100

Delta R.T. -0.02 min

Lab File: VX019072.D

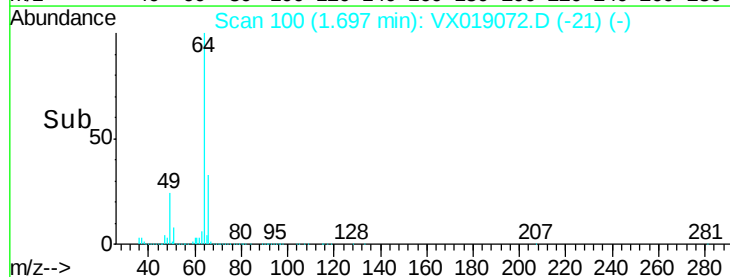
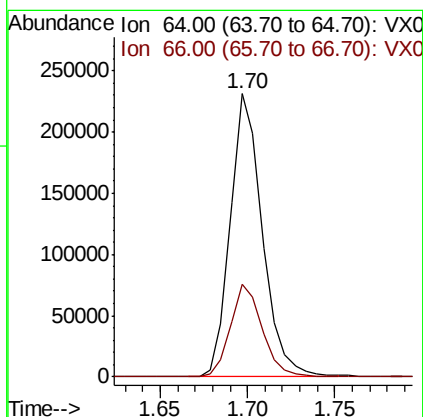
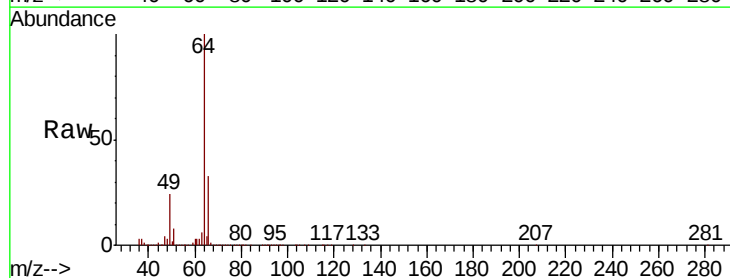
Acq: 23 Oct 2020 11:23

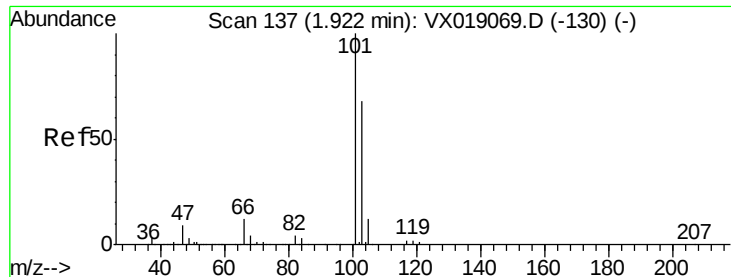
Tgt Ion: 64 Resp: 295055

Ion Ratio Lower Upper

64 100

66 32.8 25.9 38.9



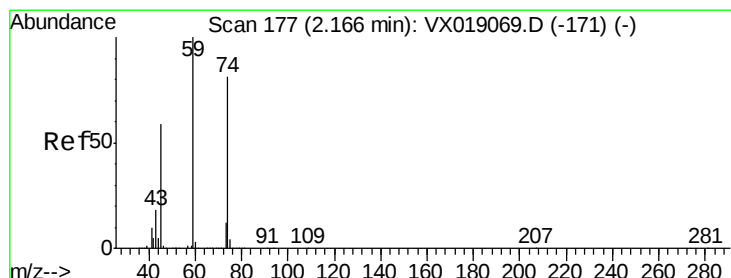
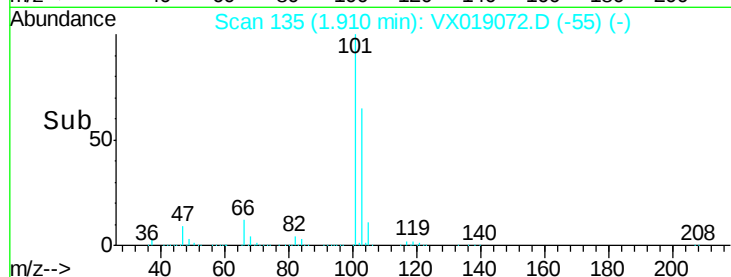
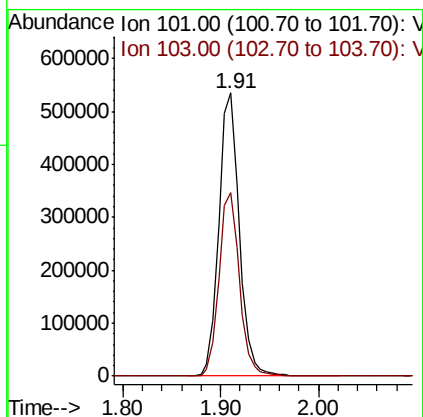
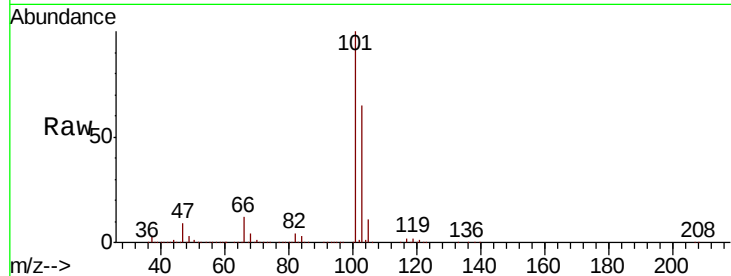


#7

Trichlorofluoromethane  
Concen: 159.614 ug/l  
RT: 1.91 min Scan# 135  
Delta R.T. -0.01 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

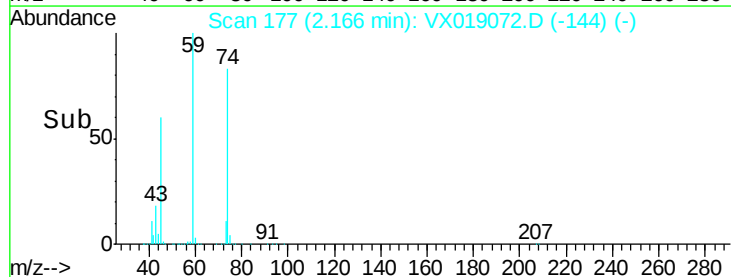
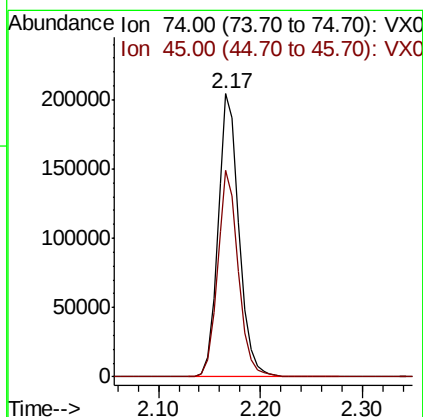
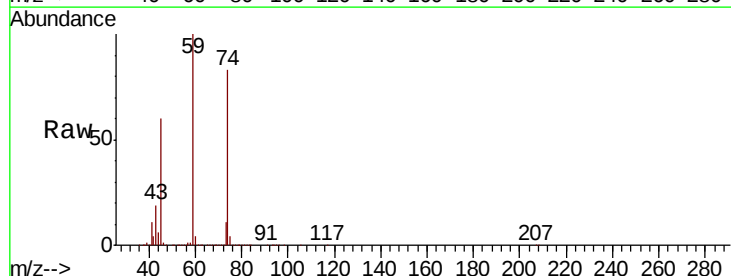
Tot Ion:101 Resp: 776571  
Ion Ratio Lower Upper  
101 100  
103 64.8 54.2 81.4

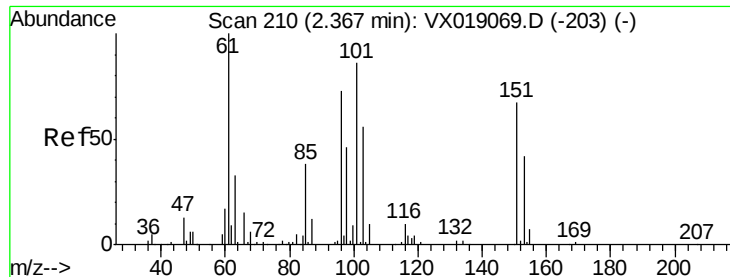


#8

Diethyl Ether  
Concen: 160.797 ug/l  
RT: 2.17 min Scan# 177  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Tgt Ion: 74 Resp: 293250  
Ion Ratio Lower Upper  
74 100  
45 72.0 14.5 130.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 158.370 ug/l

RT: 2.36 min Scan# 209

Delta R.T. -0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

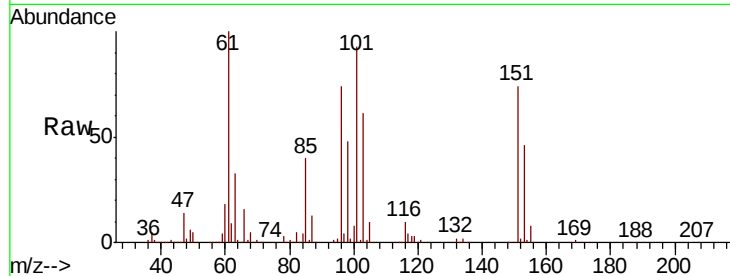
Tot Ion:101 Resp: 368168

Ion Ratio Lower Upper

101 100

85 43.2 0.0 87.0

151 78.5 0.0 151.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V

2.36

200000

150000

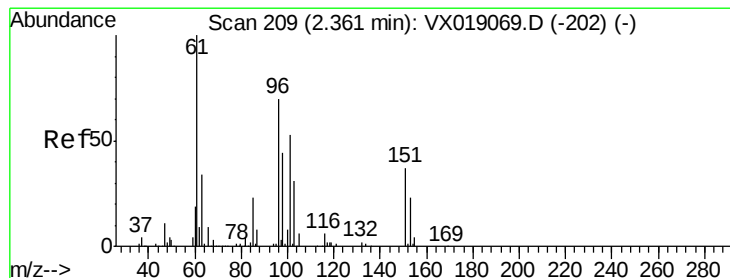
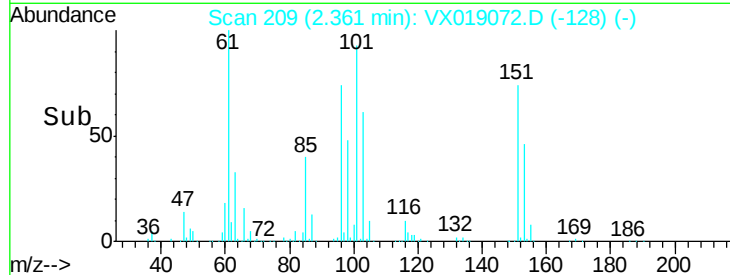
100000

50000

0

Time-->

2.30 2.40 2.50



#10

1,1-Dichloroethene

Concen: 160.104 ug/l

RT: 2.35 min Scan# 207

Delta R.T. -0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

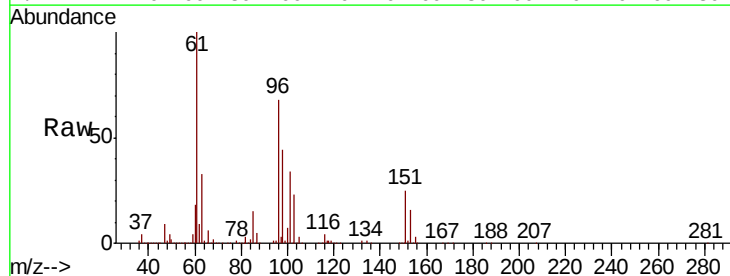
Tgt Ion: 96 Resp: 378385

Ion Ratio Lower Upper

96 100

61 146.5 113.8 170.8

98 64.1 50.4 75.6



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

400000

300000

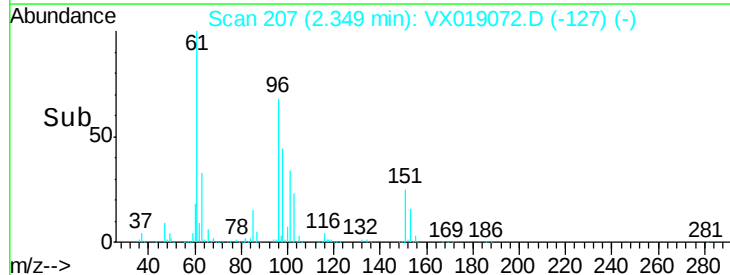
200000

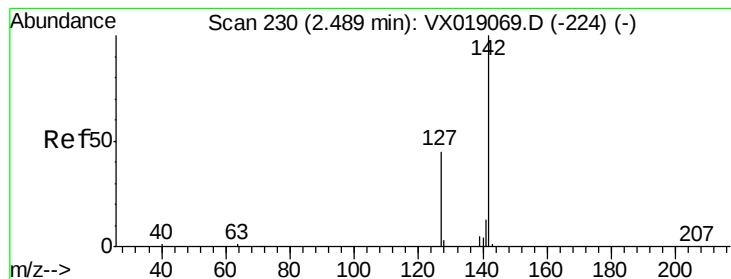
100000

0

Time-->

2.25 2.30 2.35 2.40 2.45





#11

Methyl Iodide

Concen: 148.188 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

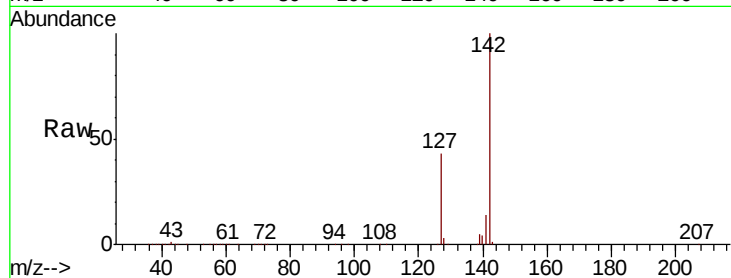
Tot Ion:142 Resp: 437485

Ion Ratio Lower Upper

142 100

127 42.8 22.6 67.7

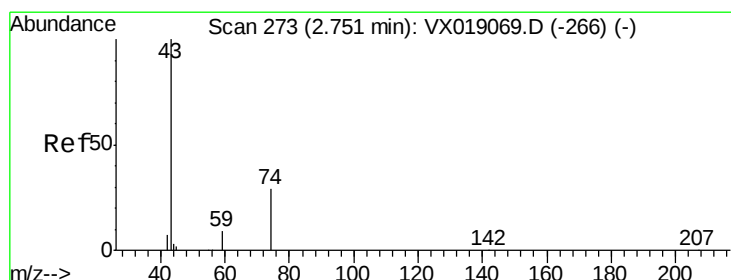
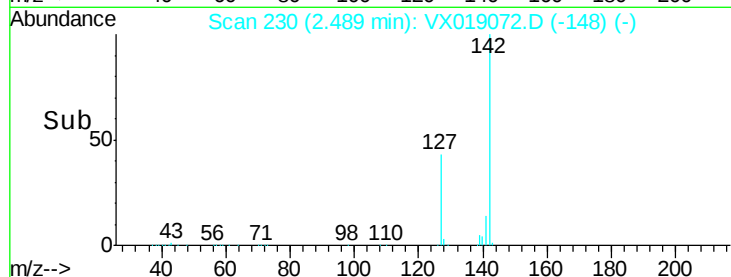
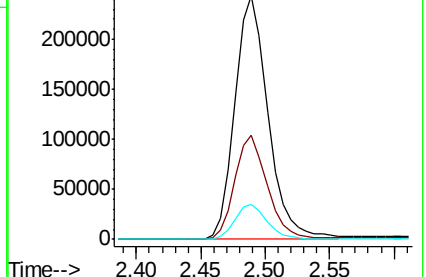
141 14.2 6.3 19.1



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: 160.234 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX019072.D

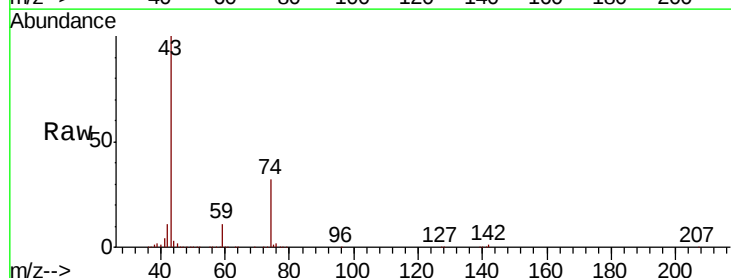
Acq: 23 Oct 2020 11:23

Tgt Ion: 43 Resp: 374890

Ion Ratio Lower Upper

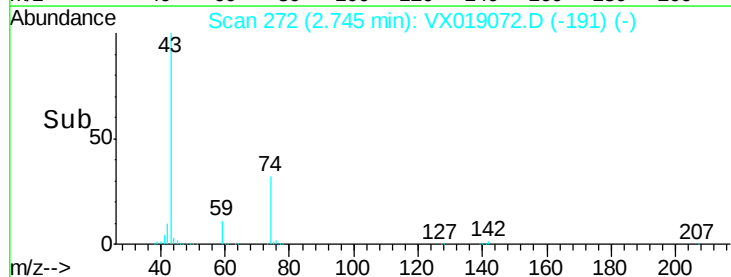
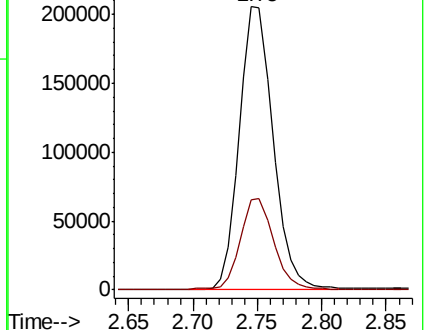
43 100

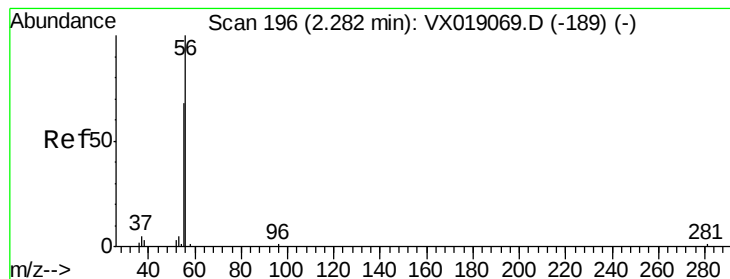
74 31.6 23.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#13

Acrolein

Concen: 908.280 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

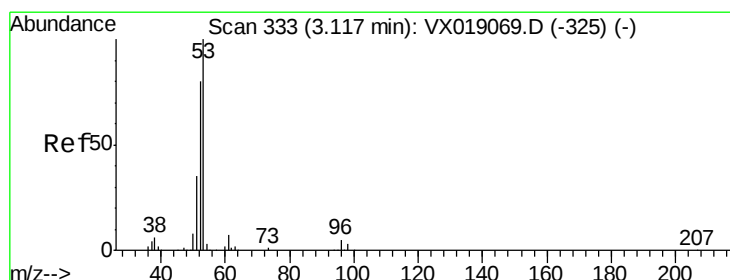
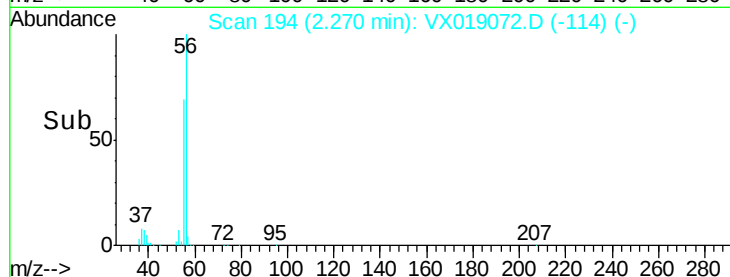
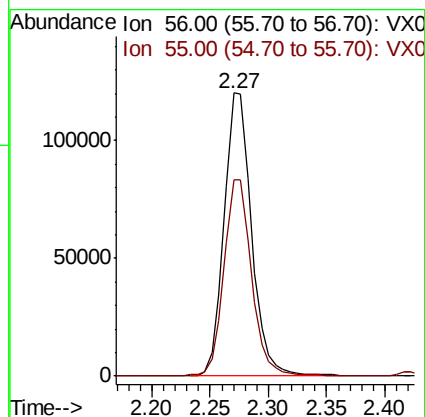
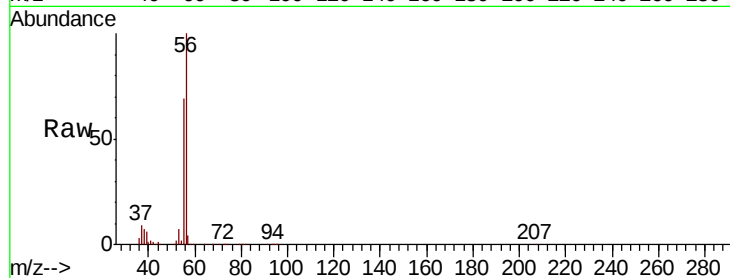
VSTDIC150

Tot Ion: 56 Resp: 195667

Ion Ratio Lower Upper

56 100

55 69.9 58.2 87.2



#14

Acrylonitrile

Concen: 785.997 ug/l

RT: 3.12 min Scan# 333

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

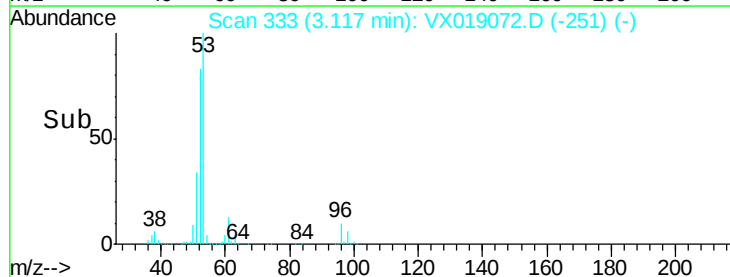
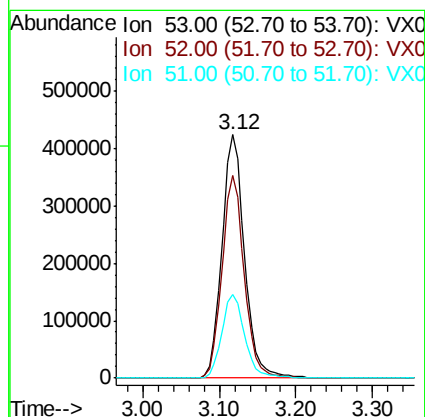
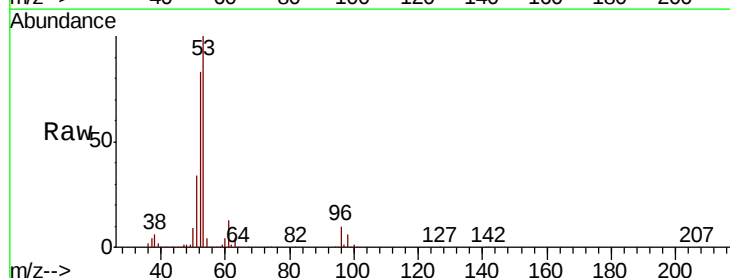
Tgt Ion: 53 Resp: 863934

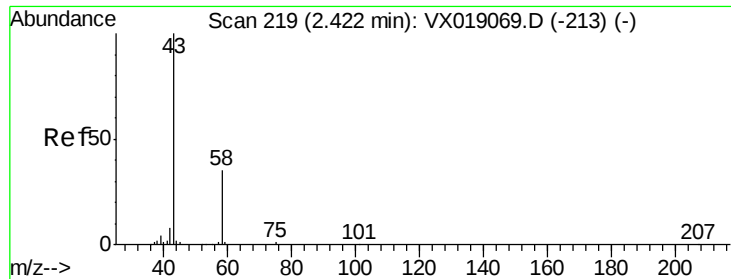
Ion Ratio Lower Upper

53 100

52 82.2 41.0 123.0

51 35.2 18.2 54.6





#15

Acetone

Concen: 824.692 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

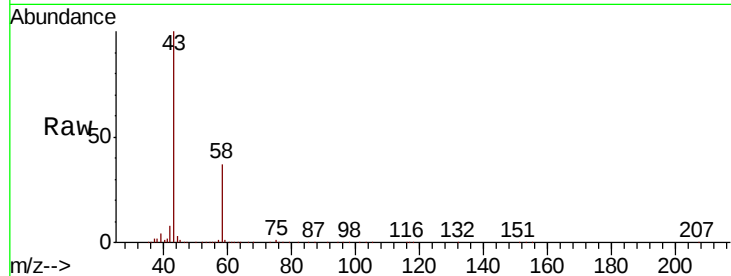
VSTDIC150

Tot Ion: 58 Resp: 259670

Ion Ratio Lower Upper

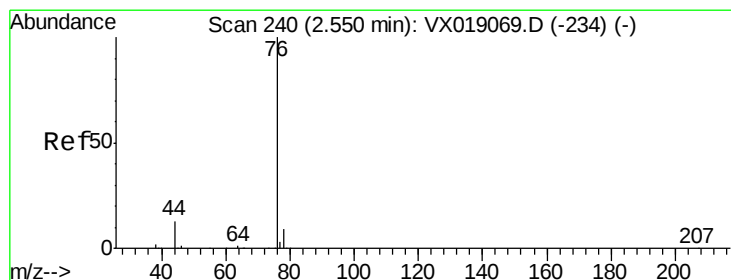
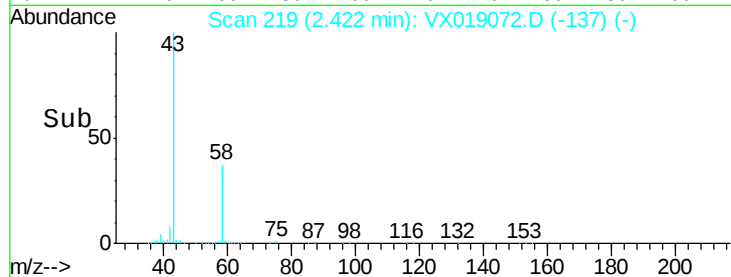
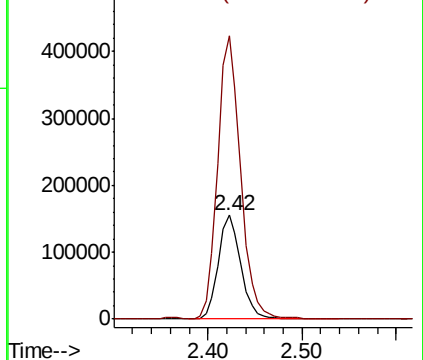
58 100

43 272.8 226.7 340.1



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 159.157 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019072.D

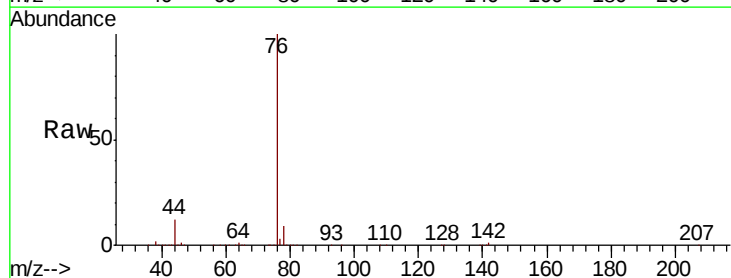
Acq: 23 Oct 2020 11:23

Tgt Ion: 76 Resp: 1045513

Ion Ratio Lower Upper

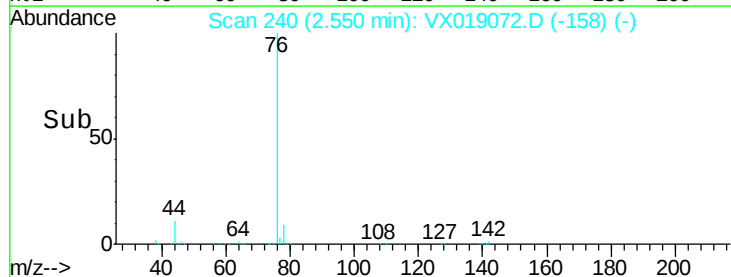
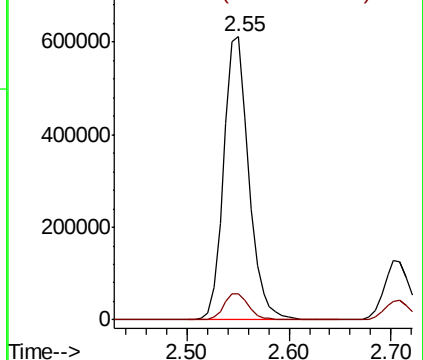
76 100

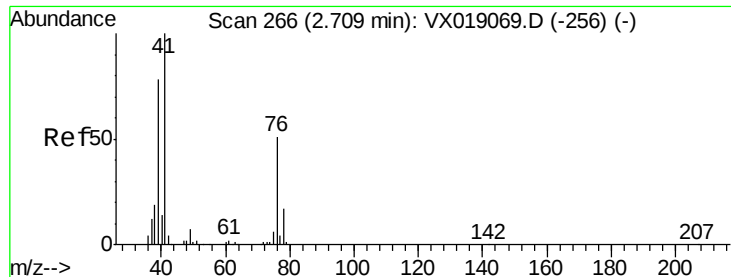
78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

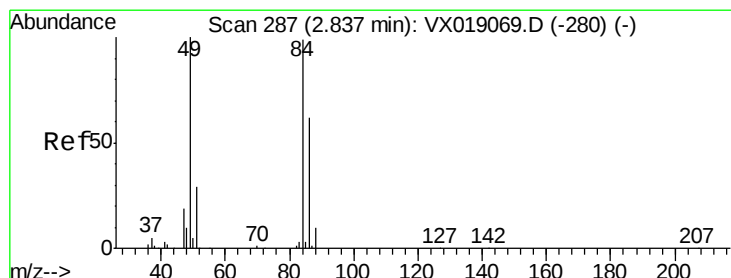
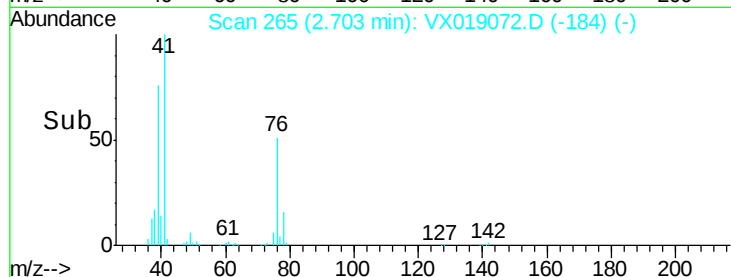
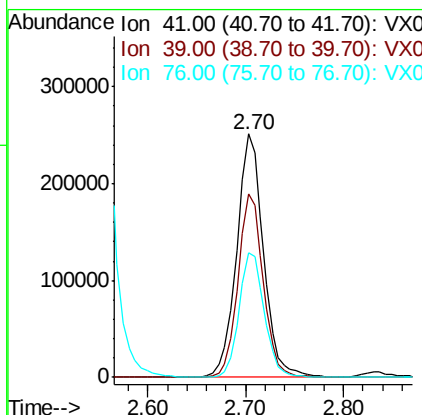
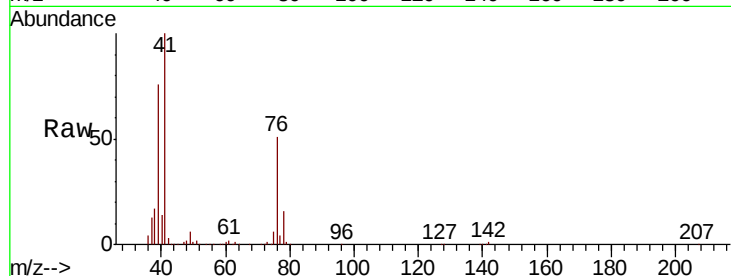




#17  
Allvl chloride  
Concen: 161.610 ug/l  
RT: 2.70 min Scan# 265  
Delta R.T. -0.01 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

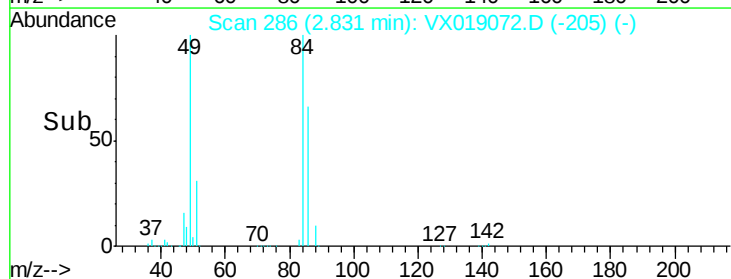
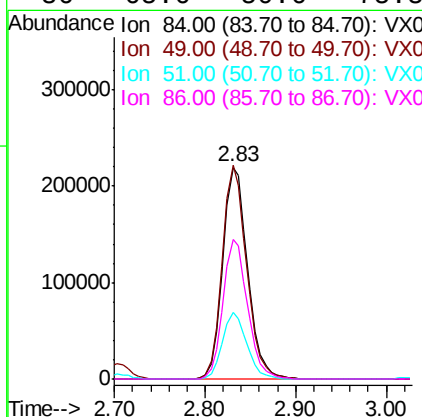
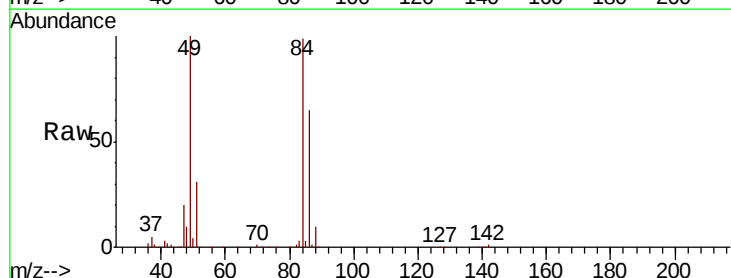
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

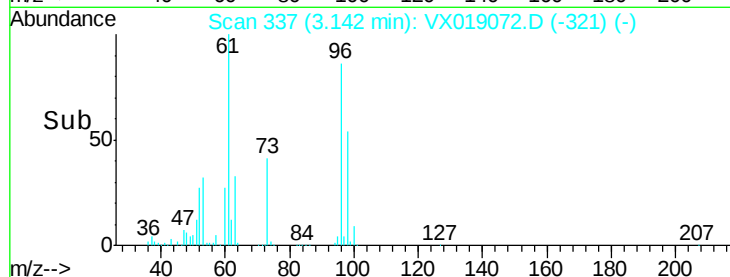
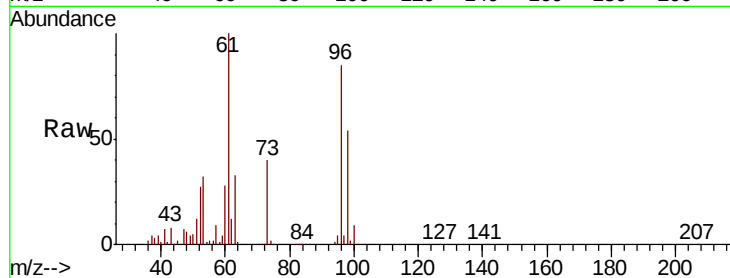
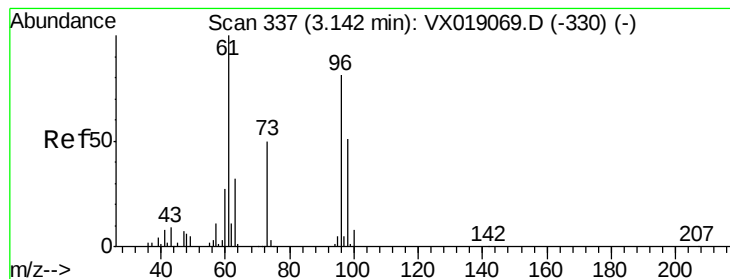
Tot Ion: 41 Resp: 477099  
Ion Ratio Lower Upper  
41 100  
39 75.6 38.8 116.3  
76 50.9 25.8 77.4



#18  
Methylene Chloride  
Concen: 155.477 ug/l  
RT: 2.83 min Scan# 286  
Delta R.T. -0.01 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Tgt Ion: 84 Resp: 419051  
Ion Ratio Lower Upper  
84 100  
49 100.9 80.9 121.3  
51 31.2 23.8 35.6  
86 65.6 50.6 75.8





#19

trans-1,2-Dichloroethene

Concen: 160.756 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

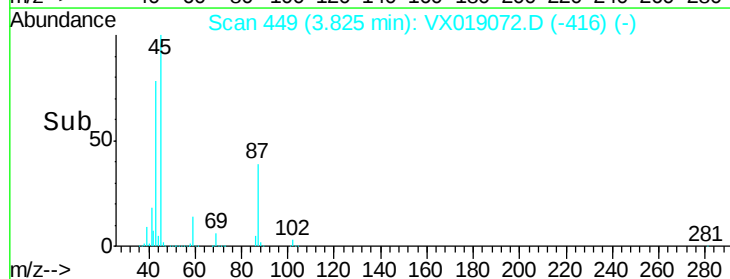
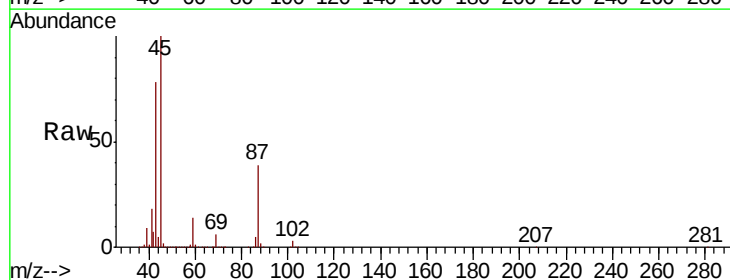
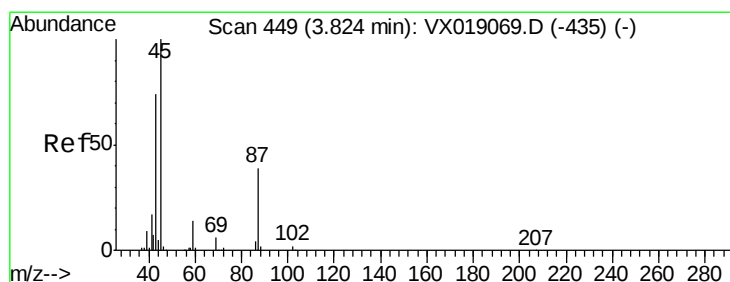
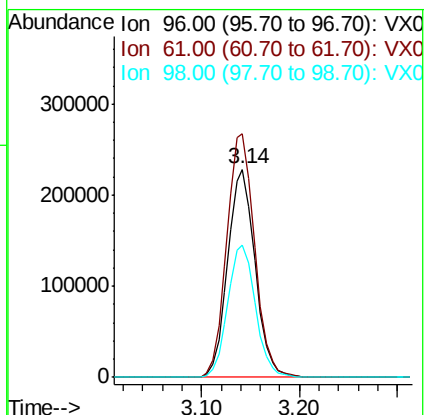
Tot Ion: 96 Resp: 443734

Ion Ratio Lower Upper

96 100

61 117.0 98.4 147.6

98 63.4 49.9 74.9



#20

Diisopropyl ether

Concen: 157.421 ug/l

RT: 3.82 min Scan# 449

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Tgt Ion: 45 Resp: 941451

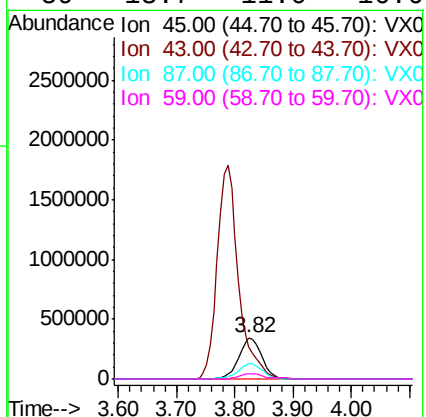
Ion Ratio Lower Upper

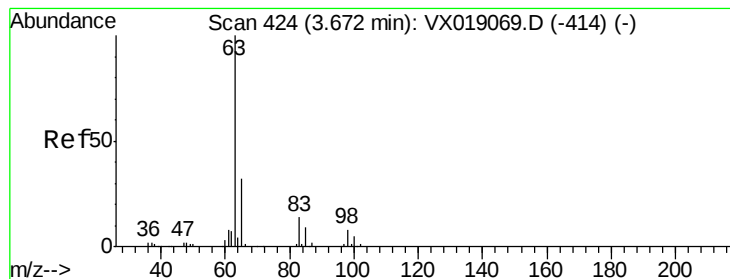
45 100

43 78.0 60.6 91.0

87 38.7 30.9 46.3

59 13.7 11.0 16.6





#21

1,1-Dichloroethane

Concen: 157.933 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

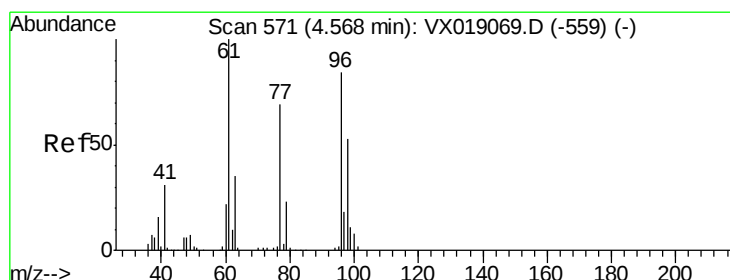
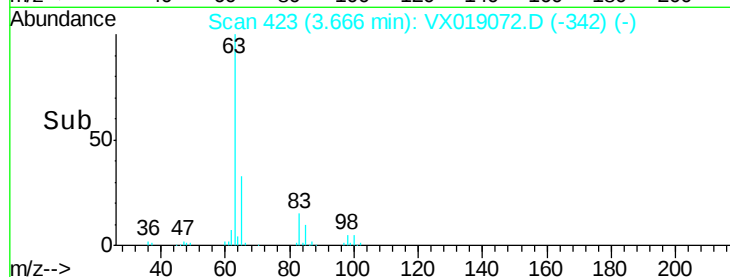
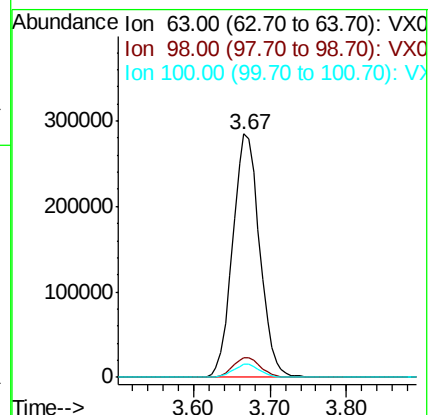
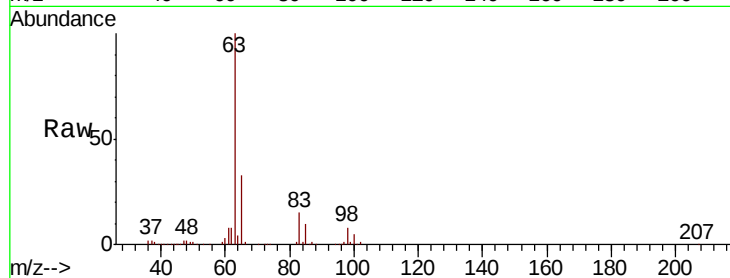
Tot Ion: 63 Resp: 693459

Ion Ratio Lower Upper

63 100

98 8.2 3.9 11.7

100 5.3 2.4 7.2



#22

cis-1,2-Dichloroethene

Concen: 156.944 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

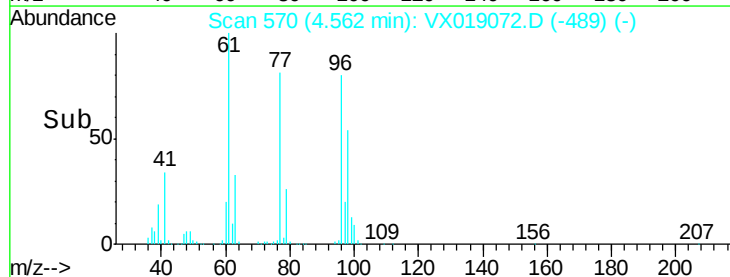
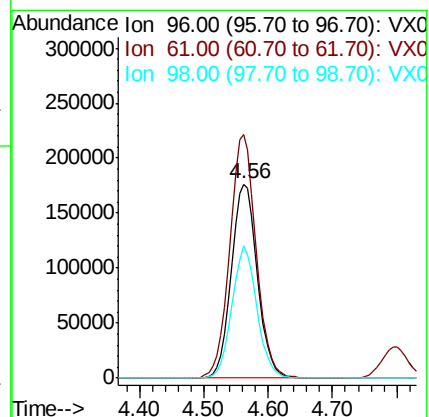
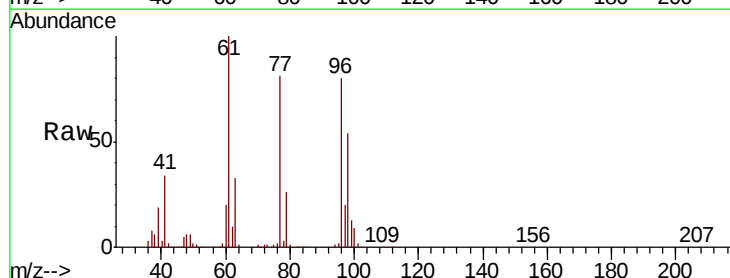
Tgt Ion: 96 Resp: 501816

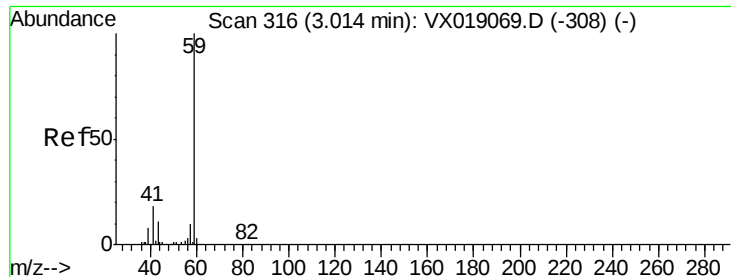
Ion Ratio Lower Upper

96 100

61 126.8 101.9 152.9

98 64.8 51.3 76.9



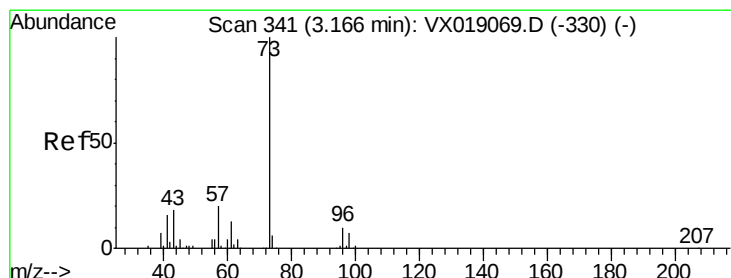
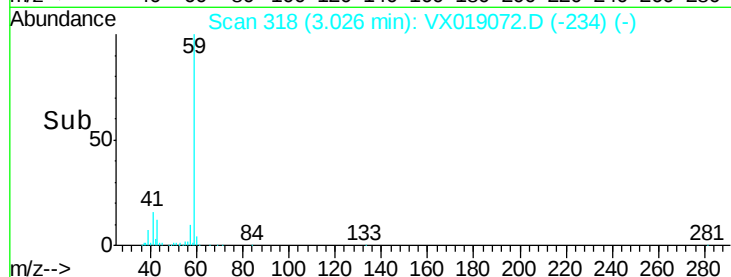
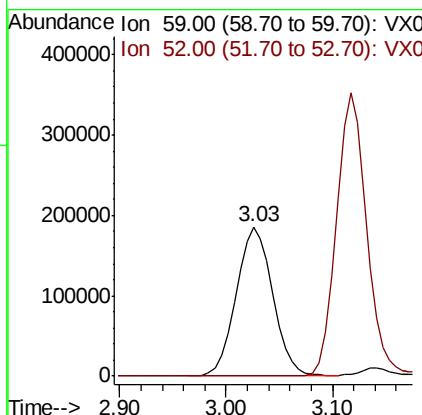
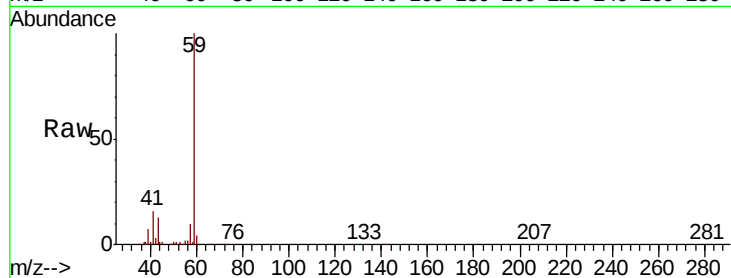


#23

tert-Butyl Alcohol  
 Concen: 841.518 ug/l  
 RT: 3.03 min Scan# 318  
 Delta R.T. 0.01 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDIC150

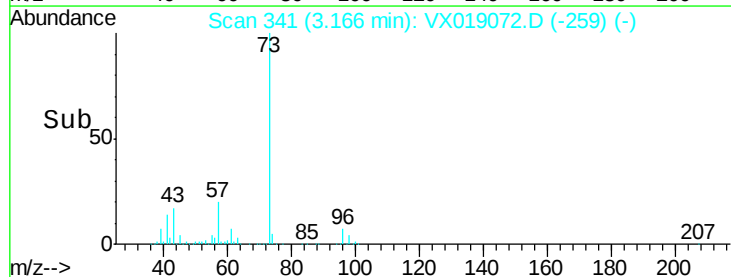
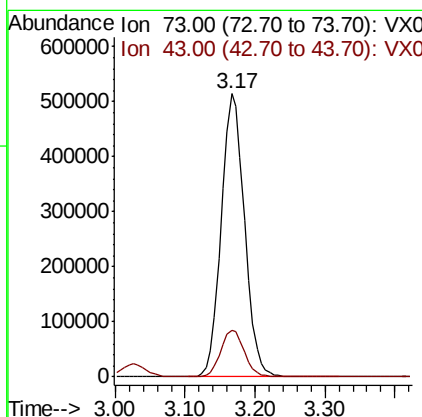
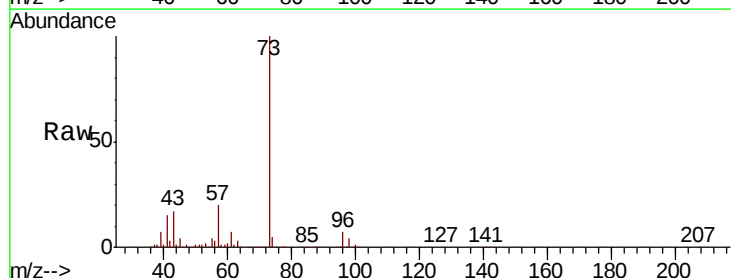
Tot Ion: 59 Resp: 448428  
 Ion Ratio Lower Upper  
 59 100  
 52 0.2 0.2 0.4#

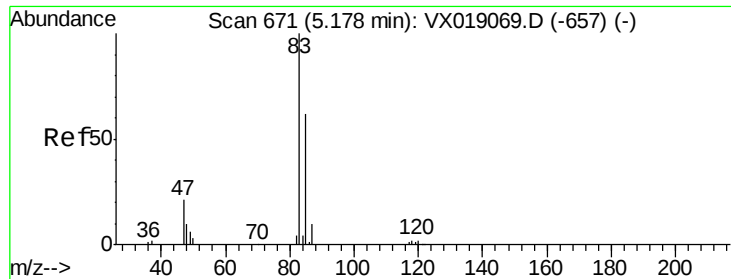


#24

Methyl tert-Butyl Ether  
 Concen: 159.200 ug/l  
 RT: 3.17 min Scan# 341  
 Delta R.T. 0.00 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

Tgt Ion: 73 Resp: 1189728  
 Ion Ratio Lower Upper  
 73 100  
 43 16.7 13.9 20.9





#25

Chloroform

Concen: 157.902 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

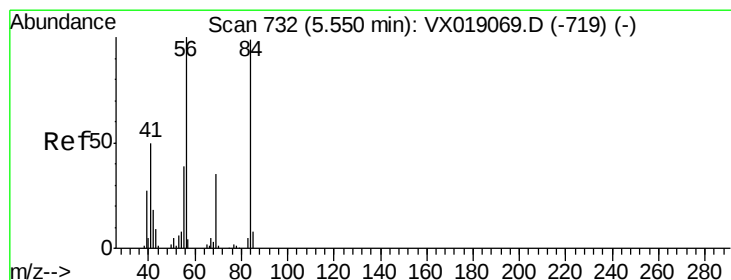
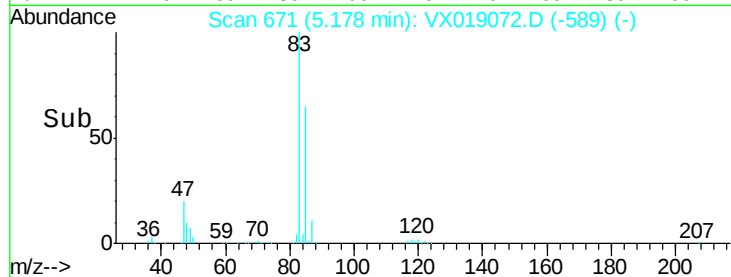
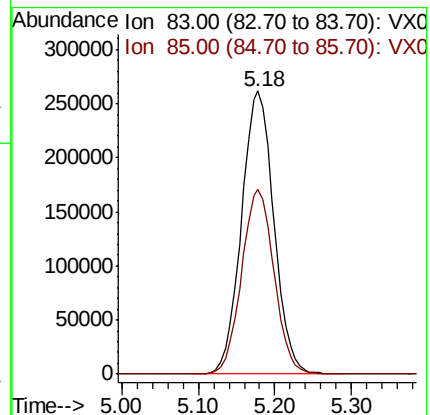
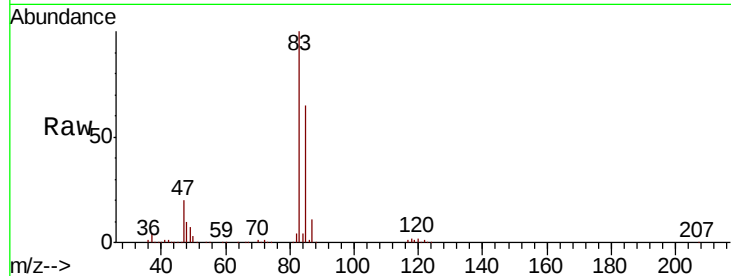
VSTDIC150

Tot Ion: 83 Resp: 768214

Ion Ratio Lower Upper

83 100

85 65.2 49.8 74.8



#26

Cyclohexane

Concen: 156.352 ug/l

RT: 5.55 min Scan# 732

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

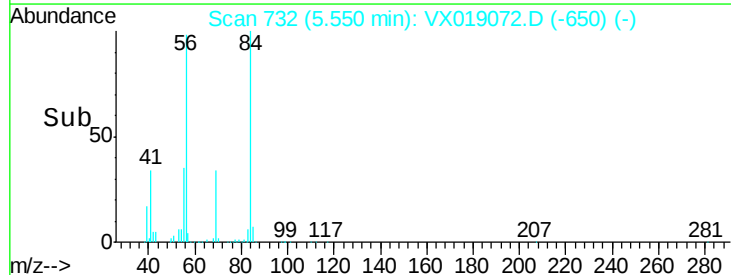
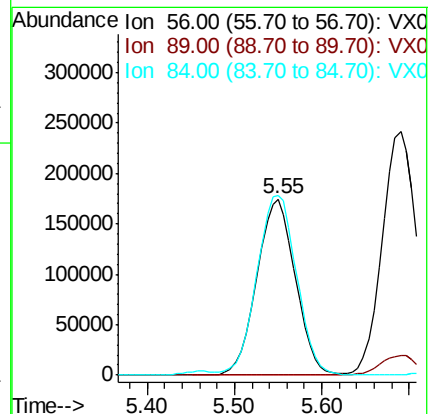
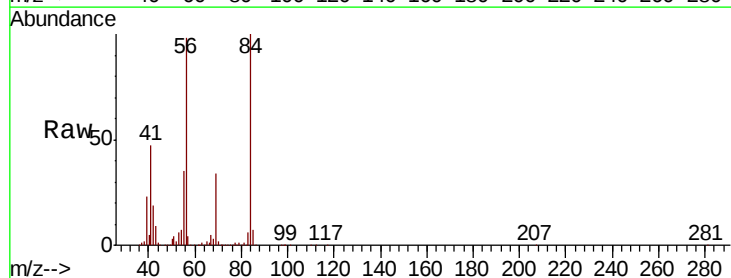
Tgt Ion: 56 Resp: 533486

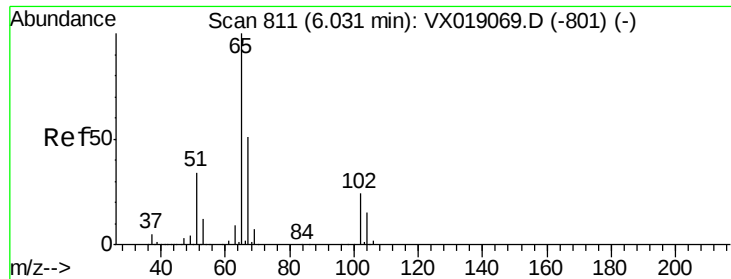
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 105.3 83.7 125.5





#27

1,2-Dichloroethane-d4

Concen: 29.319 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

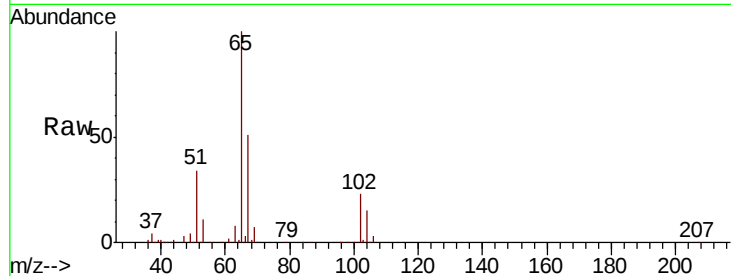
VSTDIC150

Tot Ion: 65 Resp: 91684

Ion Ratio Lower Upper

65 100

67 52.3 42.0 63.0

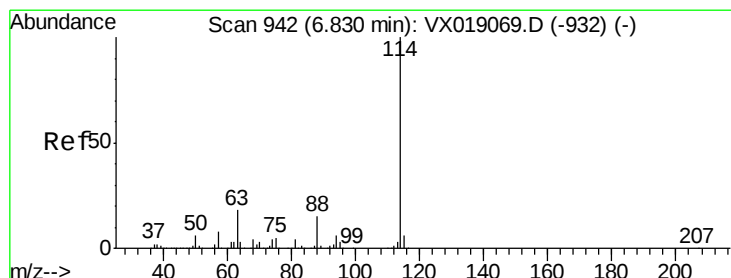
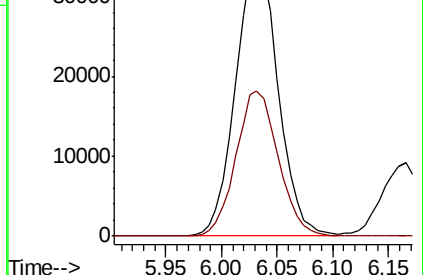
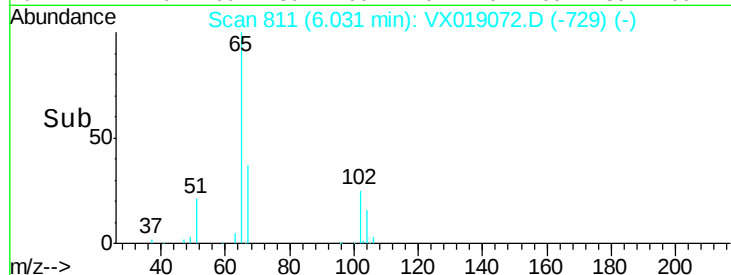


Abundance Ion 65.00 (64.70 to 65.70): VX019069.D (-801) (-)

Ion 67.00 (66.70 to 67.70): VX019069.D (-801) (-)

6.03

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

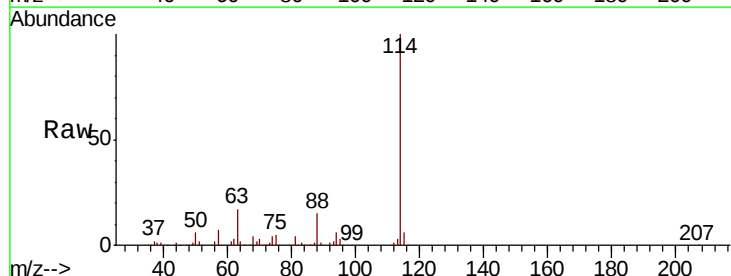
Tgt Ion: 114 Resp: 263197

Ion Ratio Lower Upper

114 100

63 17.5 14.6 21.8

88 14.9 12.2 18.2



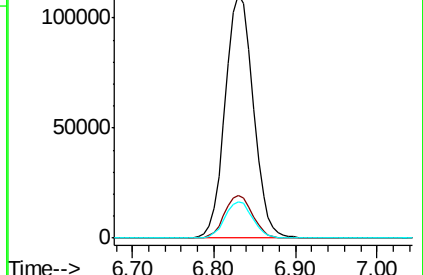
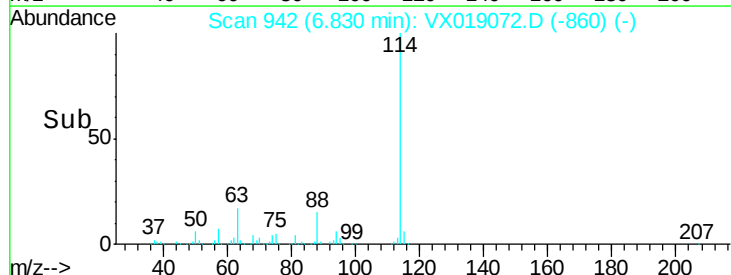
Abundance Ion 114.00 (113.70 to 114.70): VX019069.D (-932) (-)

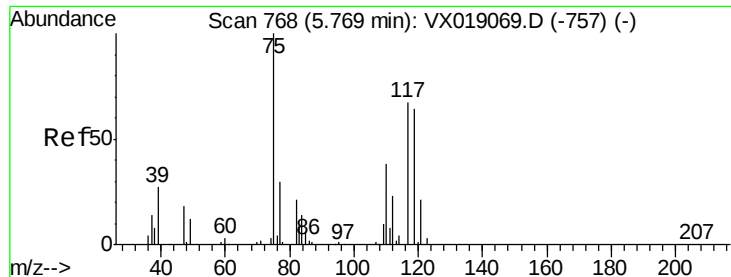
Ion 63.00 (62.70 to 63.70): VX019069.D (-932) (-)

Ion 88.00 (87.70 to 88.70): VX019069.D (-932) (-)

6.83

Time-->

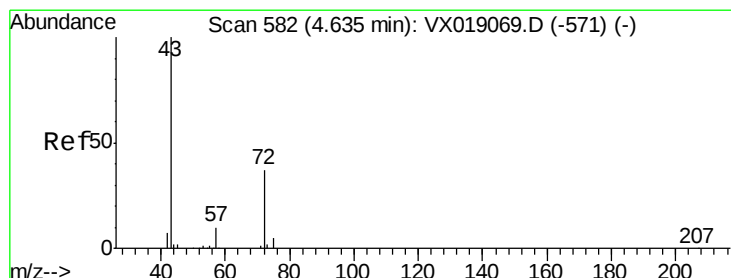
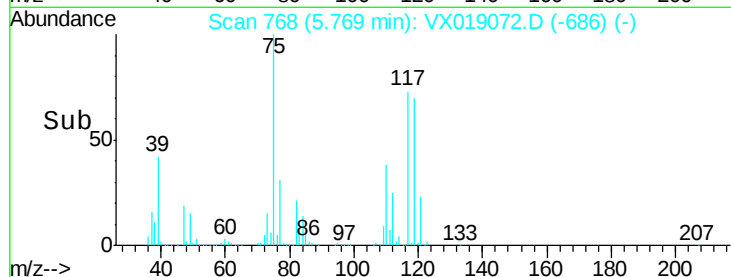
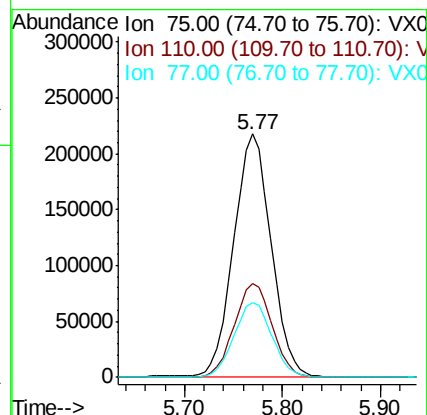
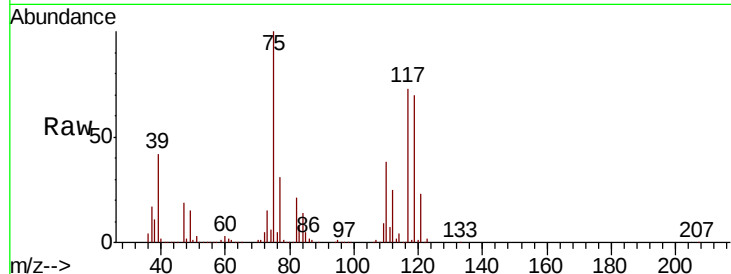




#29  
 1,1-Dichloropropene  
 Concen: 156.080 ug/l  
 RT: 5.77 min Scan# 768  
 Delta R.T. 0.00 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

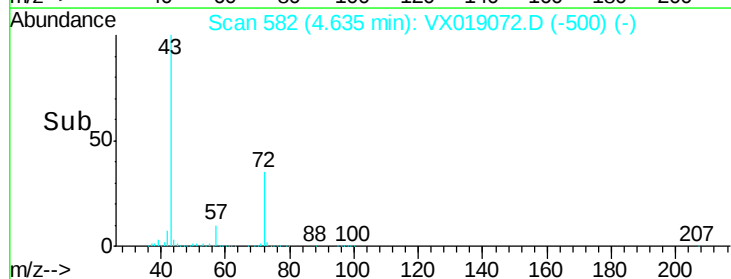
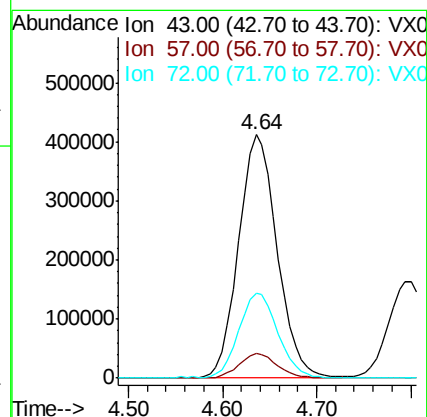
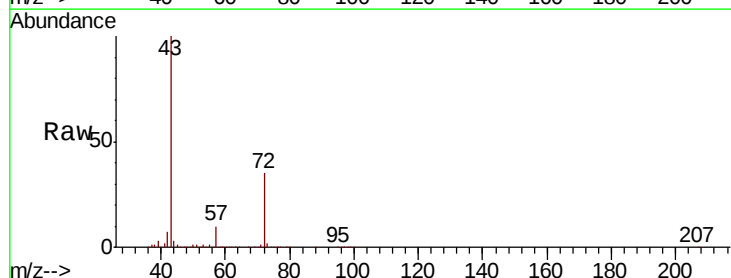
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDIC150

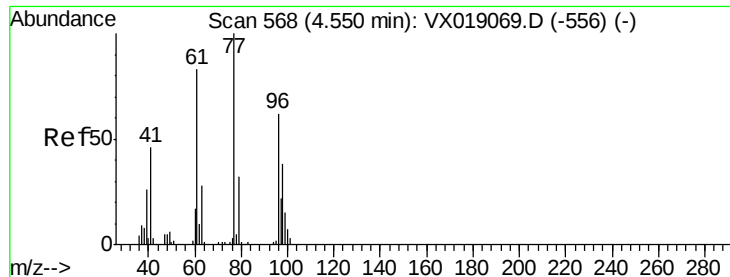
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 39.1  | 0.0   | 77.4  |
| 77      | 31.1  | 0.0   | 62.8  |



#30  
 2-Butanone  
 Concen: 793.948 ug/l  
 RT: 4.64 min Scan# 582  
 Delta R.T. 0.00 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 9.9   | 7.8   | 11.6  |
| 72      | 35.4  | 28.1  | 42.1  |





#31

2,2-Dichloropropane

Concen: 155.967 ug/l

RT: 4.55 min Scan# 568

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

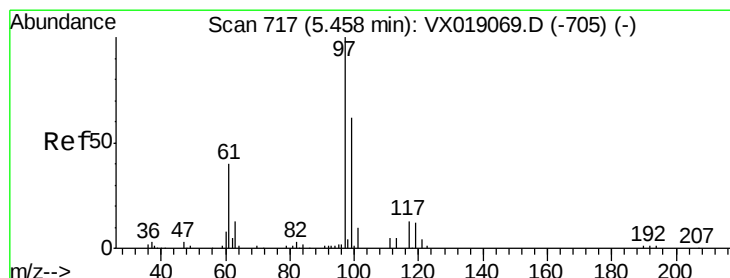
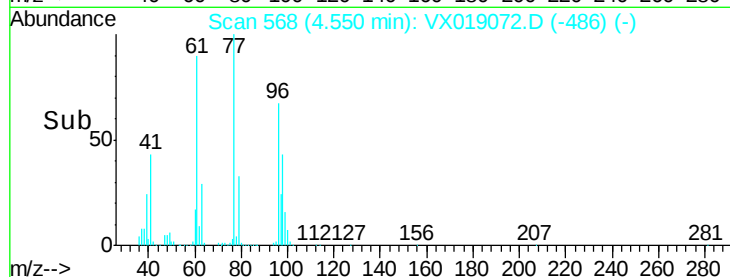
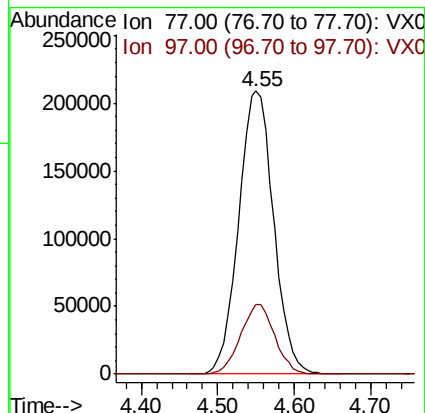
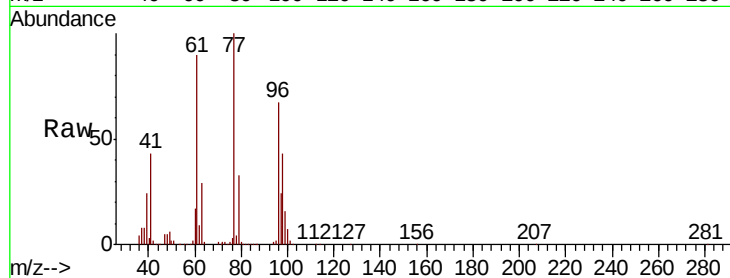
VSTDIC150

Tot Ion: 77 Resp: 662596

Ion Ratio Lower Upper

77 100

97 24.2 19.2 28.8



#32

1,1,1-Trichloroethane

Concen: 158.802 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

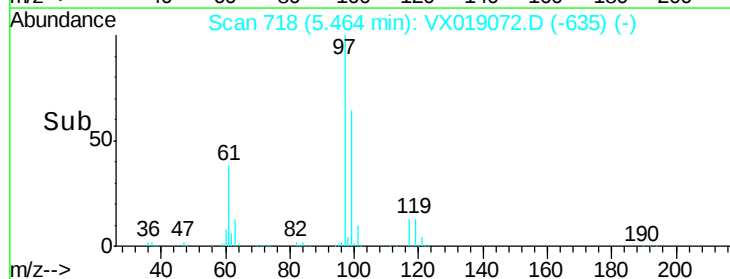
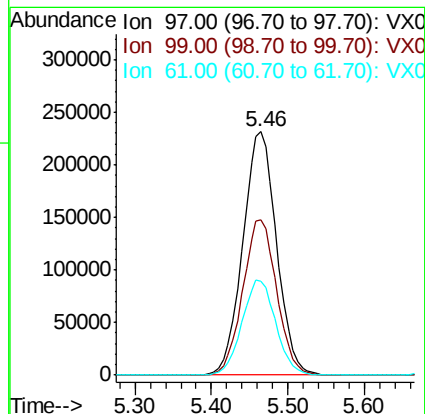
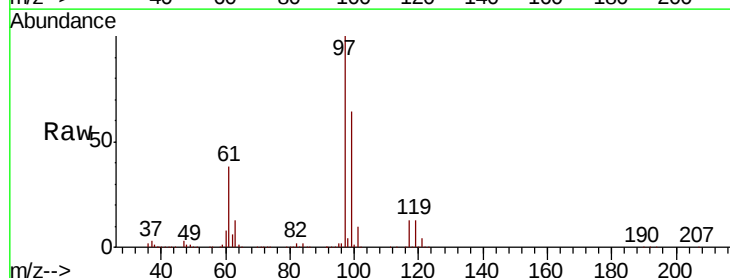
Tgt Ion: 97 Resp: 708692

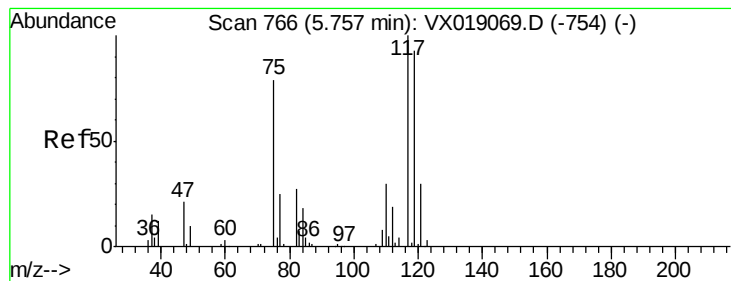
Ion Ratio Lower Upper

97 100

99 64.3 51.0 76.6

61 39.3 32.0 48.0





#33

Carbon Tetrachloride

Concen: 161.170 ug/l

RT: 5.76 min Scan# 766

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

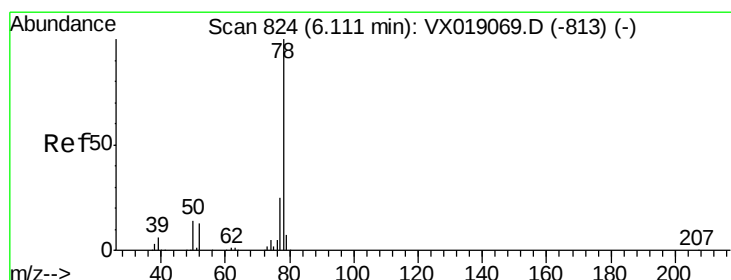
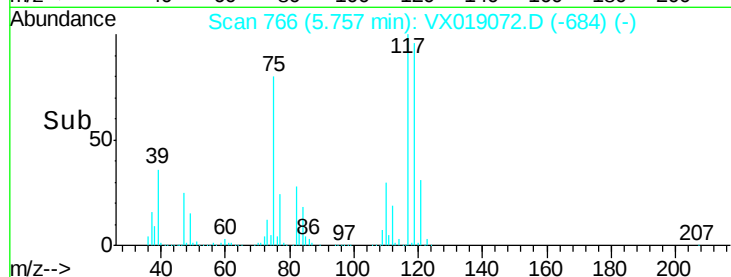
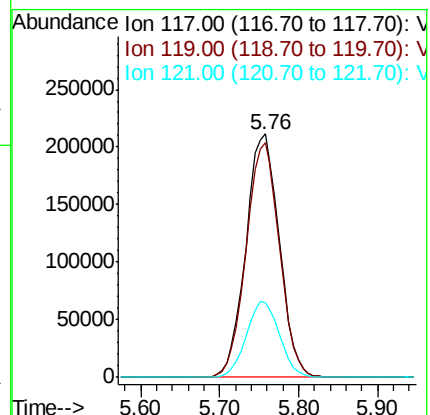
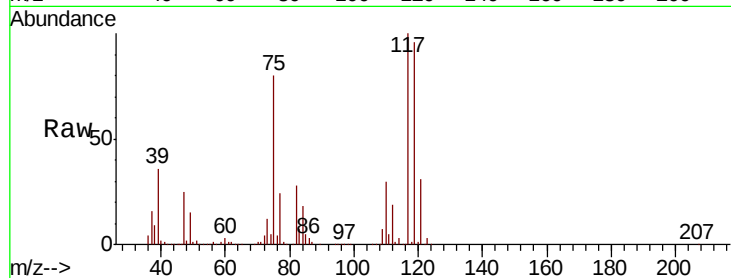
Tot Ion:117 Resp: 624190

Ion Ratio Lower Upper

117 100

119 96.3 74.5 111.7

121 30.9 24.1 36.1



#34

Benzene

Concen: 155.392 ug/l

RT: 6.11 min Scan# 824

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

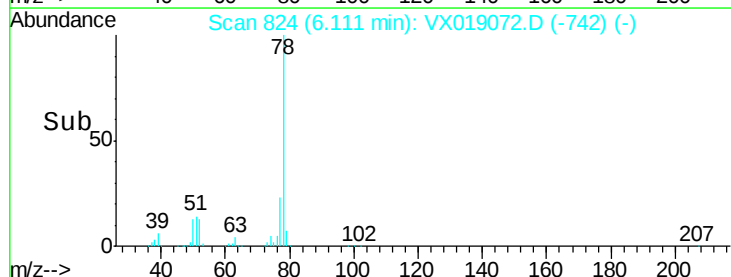
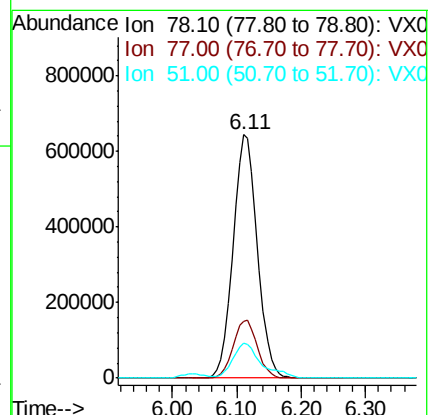
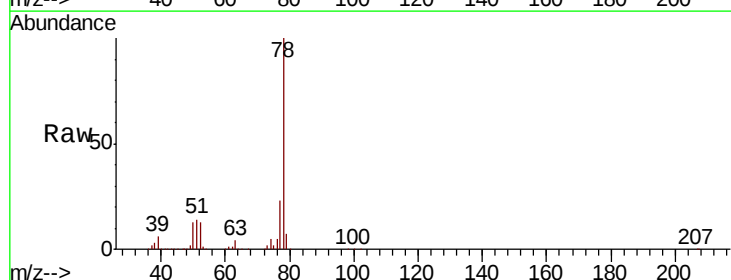
Tgt Ion: 78 Resp: 1697662

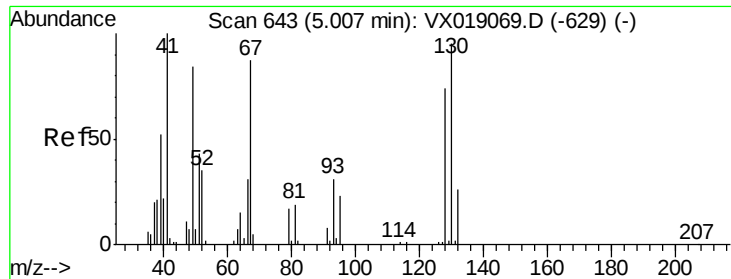
Ion Ratio Lower Upper

78 100

77 23.4 20.1 30.1

51 14.3 11.0 16.4





#35

Methacrylonitrile

Concen: 157.691 ug/l

RT: 5.01 min Scan# 643

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

Tot Ion: 41 Resp: 252510

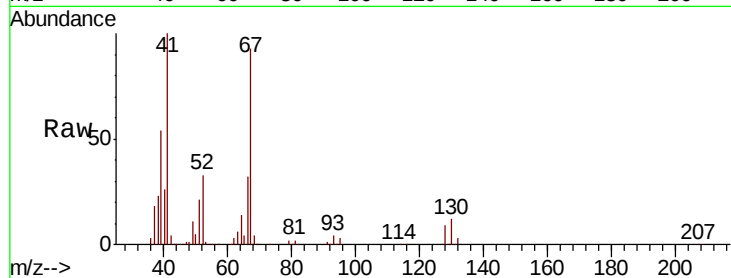
Ion Ratio Lower Upper

41 100

39 54.2 25.8 77.4

67 93.5 43.6 130.8

52 32.7 17.3 51.7

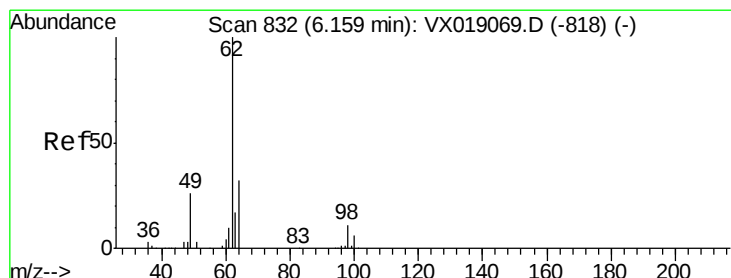
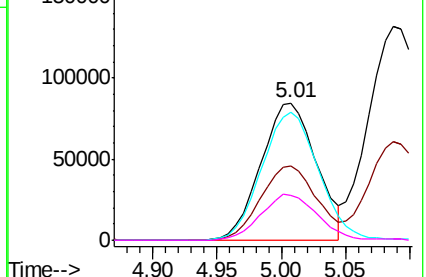
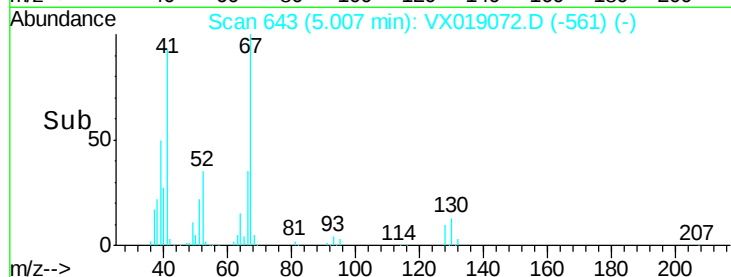


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#36

1,2-Dichloroethane

Concen: 154.045 ug/l

RT: 6.17 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX019072.D

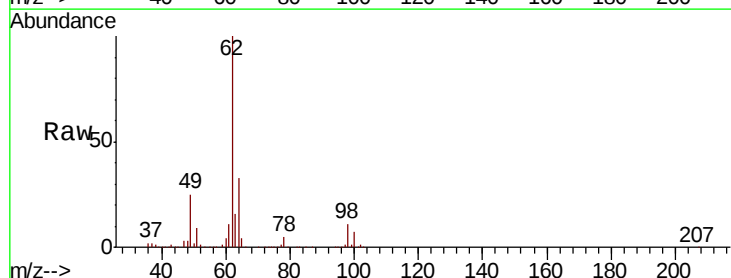
Acq: 23 Oct 2020 11:23

Tgt Ion: 62 Resp: 577307

Ion Ratio Lower Upper

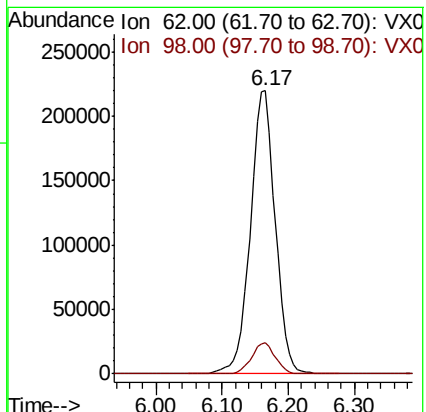
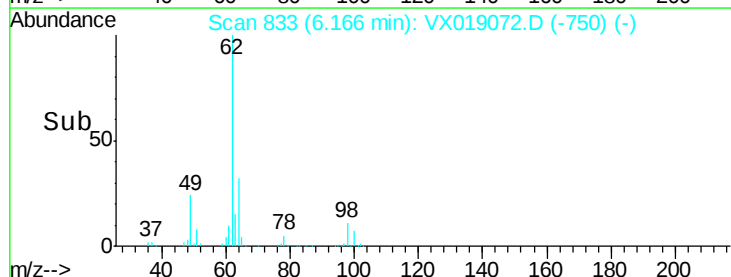
62 100

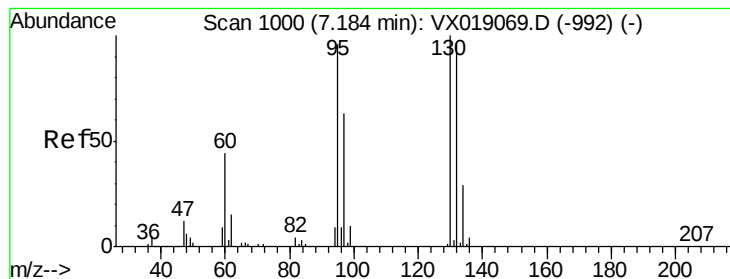
98 10.6 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#37

Trichloroethene

Concen: 157.308 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

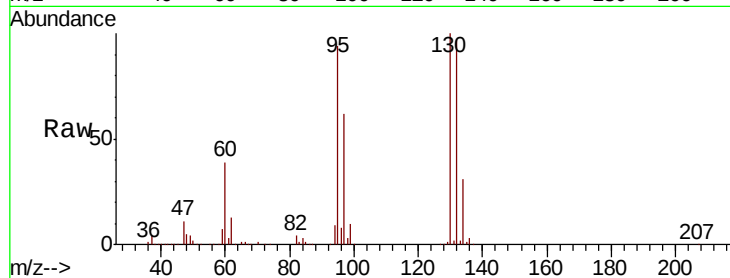
VSTDIC150

Tot Ion:130 Resp: 493986

Ion Ratio Lower Upper

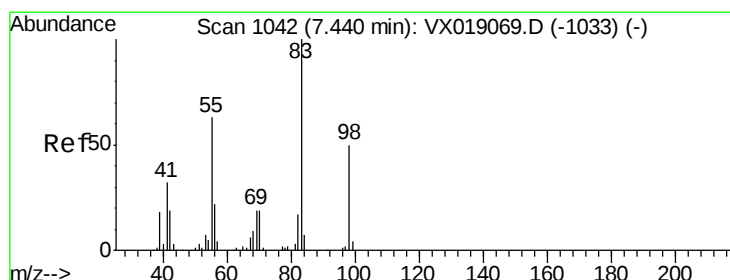
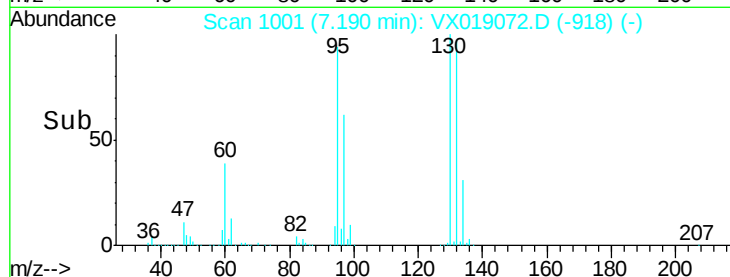
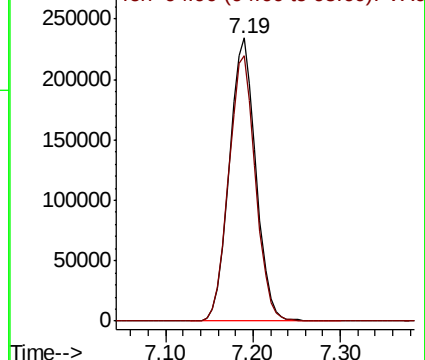
130 100

95 93.6 76.8 115.2



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0



#38

Methylcyclohexane

Concen: 156.739 ug/l

RT: 7.44 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

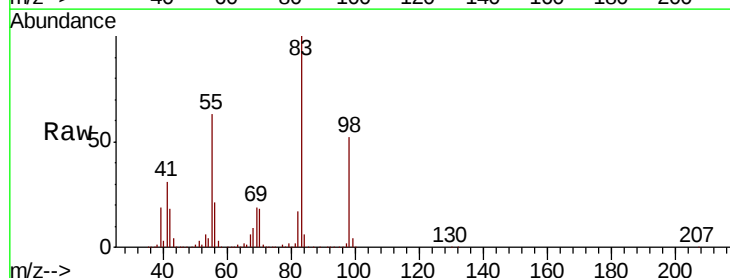
Tgt Ion: 83 Resp: 652339

Ion Ratio Lower Upper

83 100

55 64.4 32.3 96.8

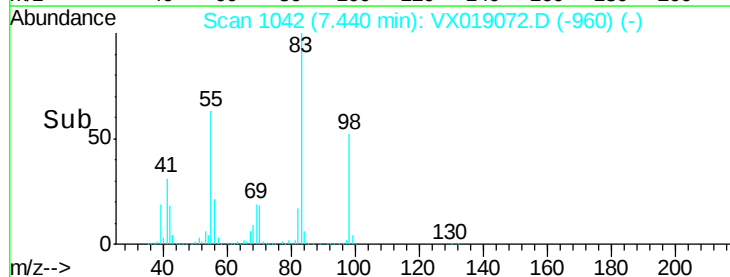
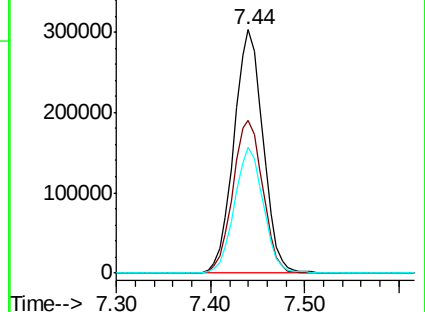
98 51.2 25.7 77.1

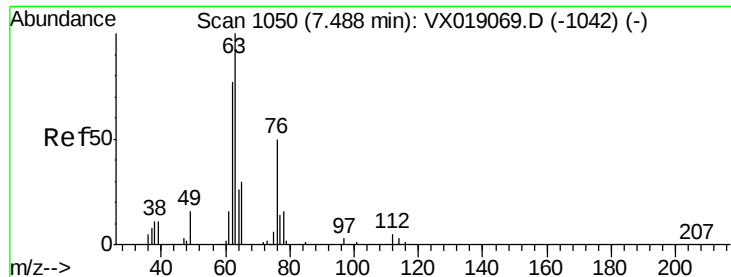


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#39

1,2-Dichloropropane

Concen: 156.852 ug/l

RT: 7.49 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

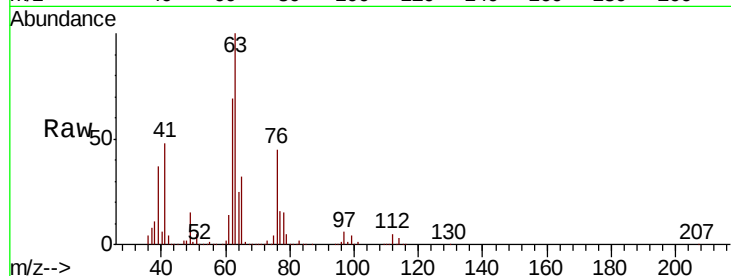
VSTDIC150

Tot Ion: 63 Resp: 397773

Ion Ratio Lower Upper

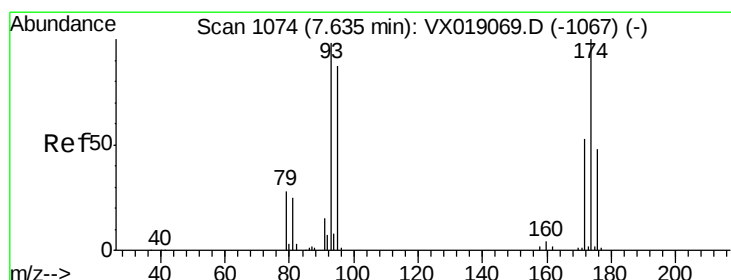
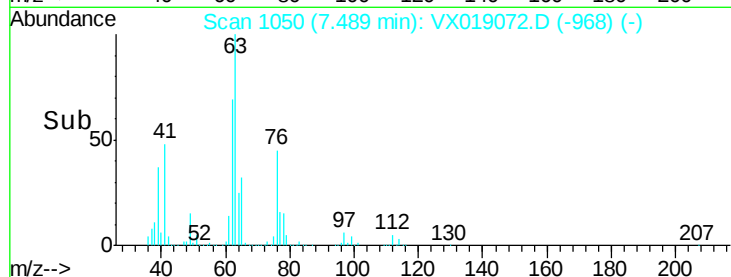
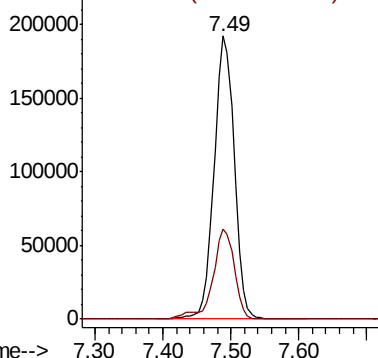
63 100

65 31.8 25.8 38.8



Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0



#40

Dibromomethane

Concen: 155.872 ug/l

RT: 7.64 min Scan# 1075

Delta R.T. 0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

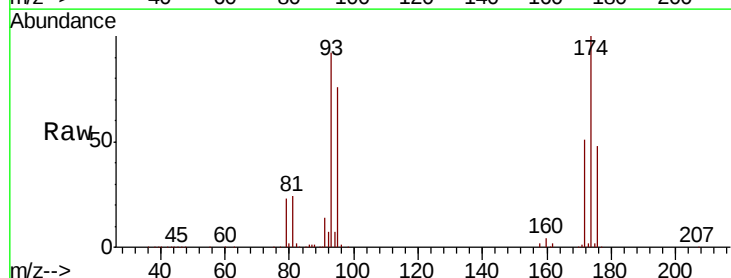
Tgt Ion: 93 Resp: 306777

Ion Ratio Lower Upper

93 100

95 83.1 0.0 169.0

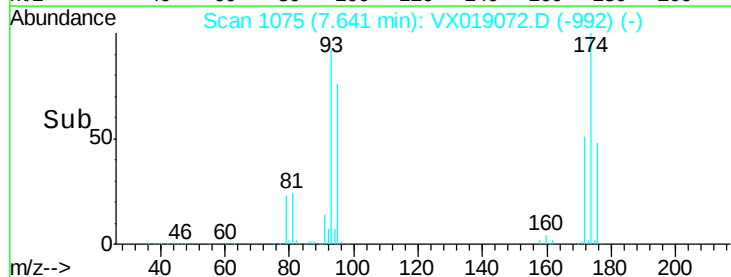
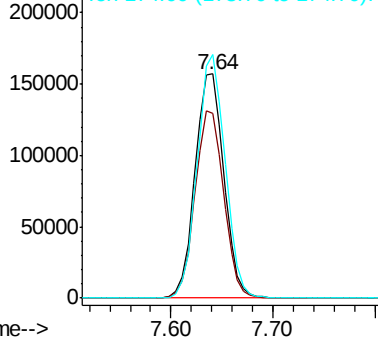
174 105.4 0.0 205.4

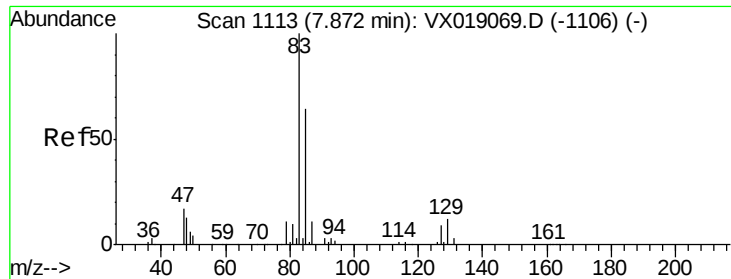


Abundance Ion 93.00 (92.70 to 93.70): VX0

Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

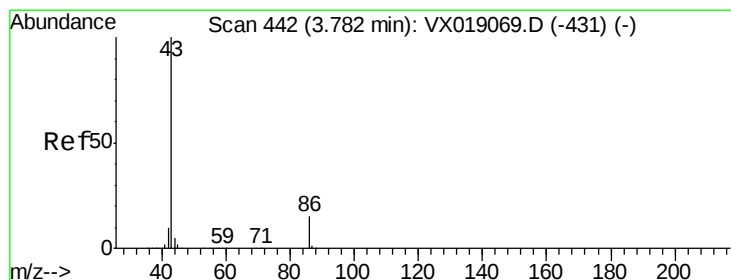
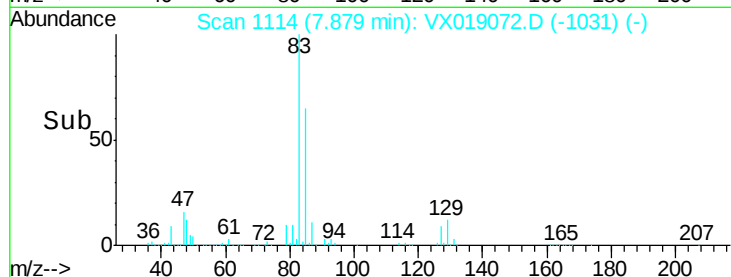
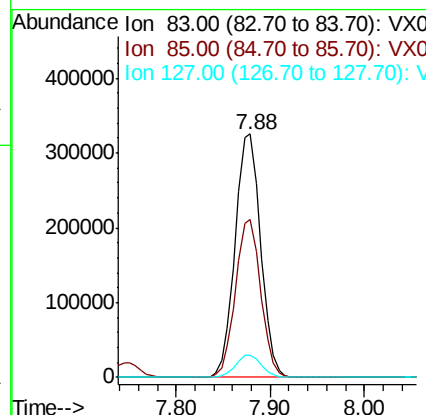
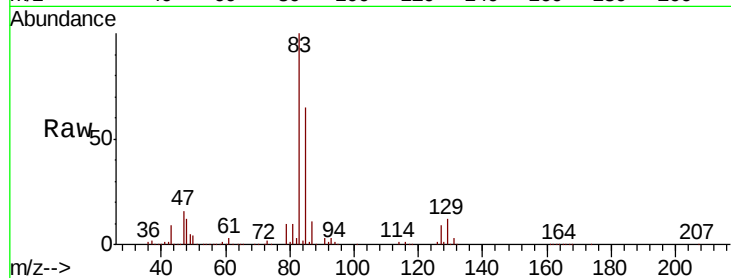




#41  
Bromodichloromethane  
Concen: 157.747 ug/l  
RT: 7.88 min Scan# 1114  
Delta R.T. 0.01 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

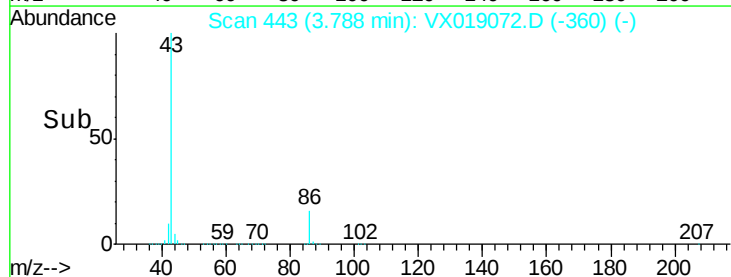
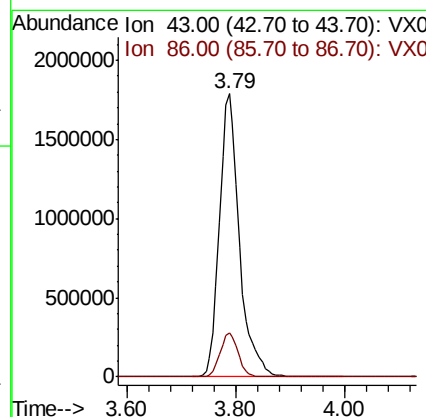
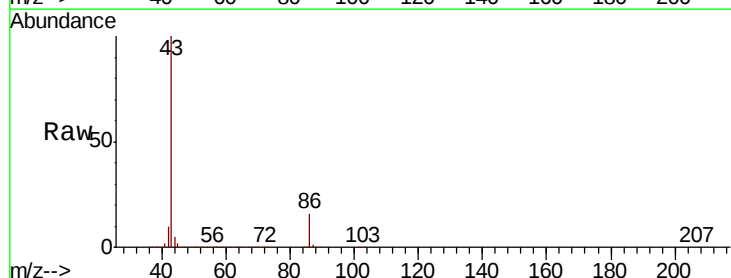
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

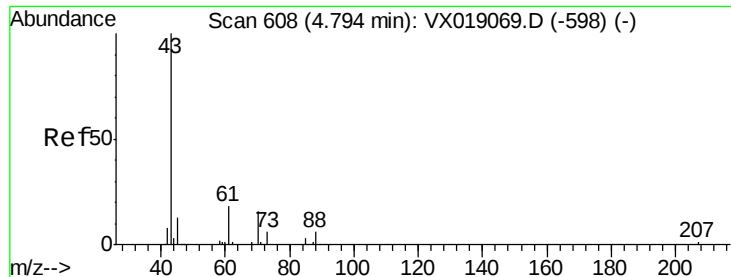
Tot Ion: 83 Resp: 613804  
Ion Ratio Lower Upper  
83 100  
85 64.8 51.2 76.8  
127 9.1 7.1 10.7



#42  
Vinyl Acetate  
Concen: 790.445 ug/l  
RT: 3.79 min Scan# 443  
Delta R.T. 0.01 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Tgt Ion: 43 Resp: 4549399  
Ion Ratio Lower Upper  
43 100  
86 14.0 10.6 15.8

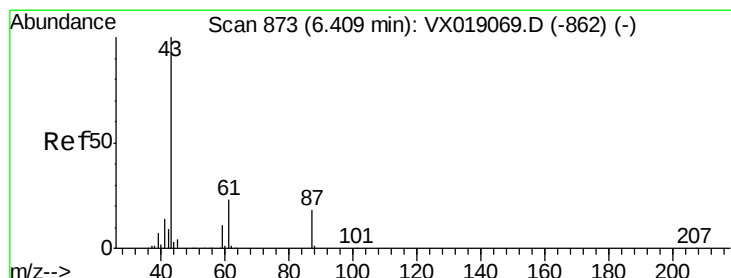
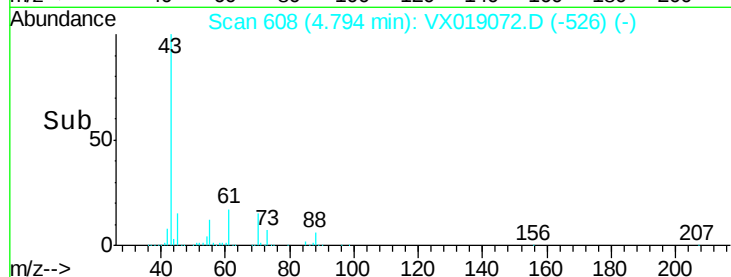
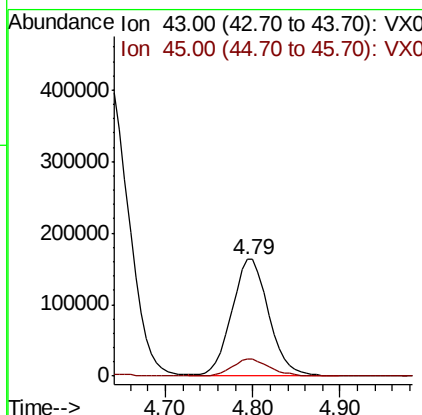
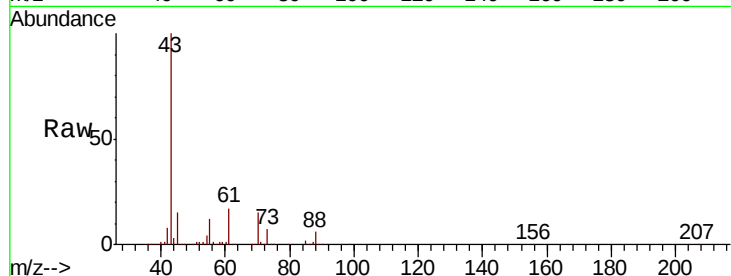




#43  
Ethyl Acetate  
Concen: 153.662 ug/l  
RT: 4.79 min Scan# 608  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

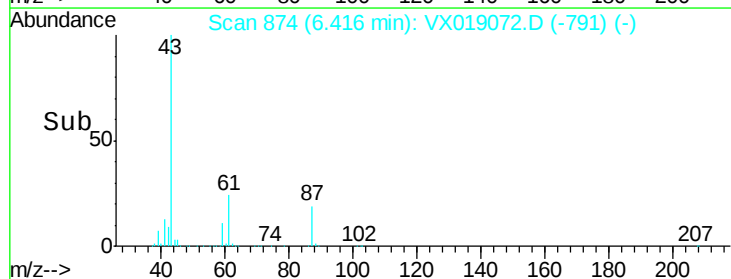
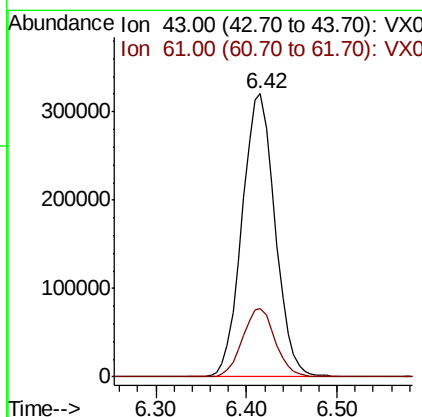
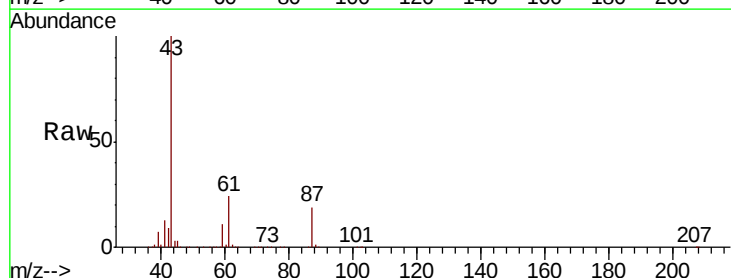
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

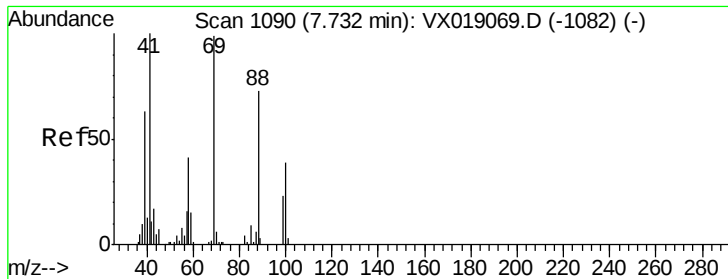
Tot Ion: 43 Resp: 476824  
Ion Ratio Lower Upper  
43 100  
45 15.4 12.7 19.1



#44  
Isopropyl Acetate  
Concen: 155.071 ug/l  
RT: 6.42 min Scan# 874  
Delta R.T. 0.01 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Tgt Ion: 43 Resp: 805784  
Ion Ratio Lower Upper  
43 100  
61 24.1 19.1 28.7





#45

1,4-Dioxane

Concen: 3356.954 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

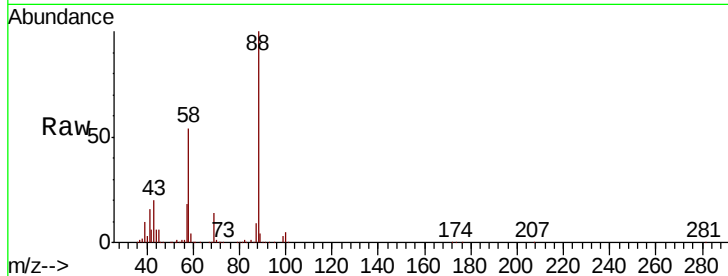
Tot Ion: 88 Resp: 183348

Ion Ratio Lower Upper

88 100

43 24.4 20.5 30.7

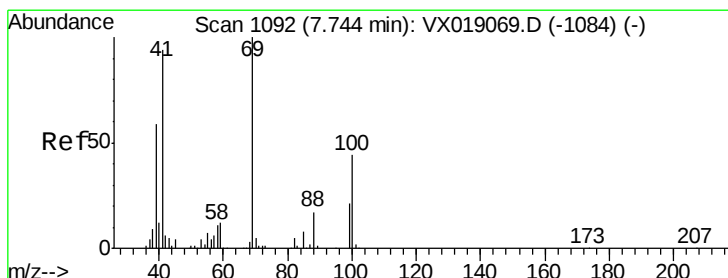
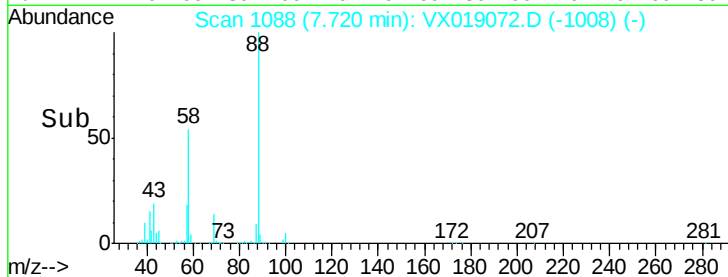
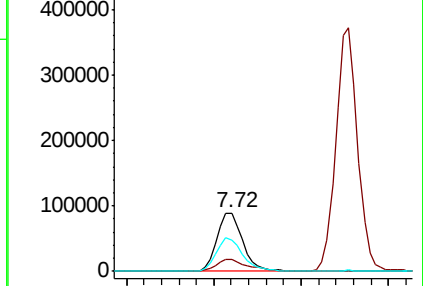
58 58.4 47.4 71.2



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: 154.973 ug/l

RT: 7.74 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

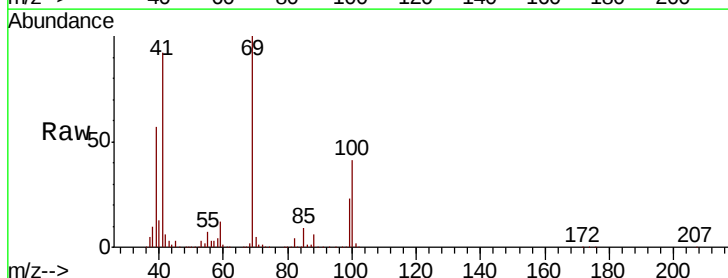
Tgt Ion: 41 Resp: 381135

Ion Ratio Lower Upper

41 100

69 109.0 53.1 159.4

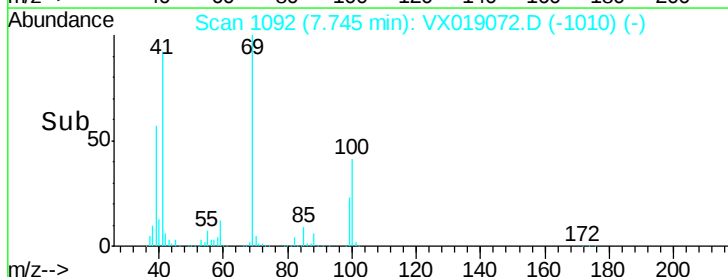
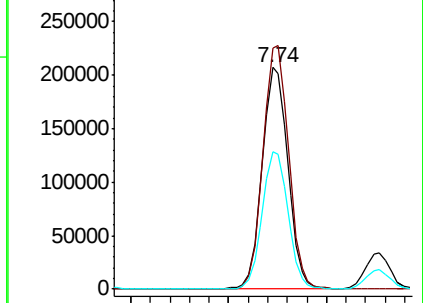
39 62.0 31.3 93.9

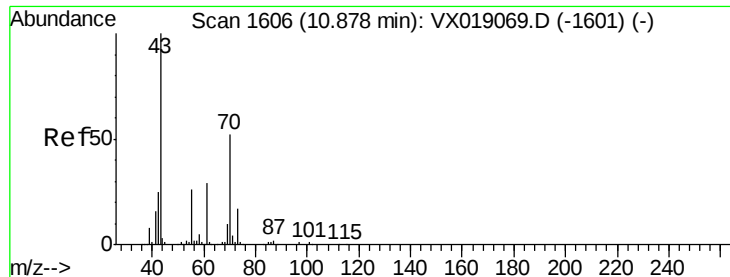


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

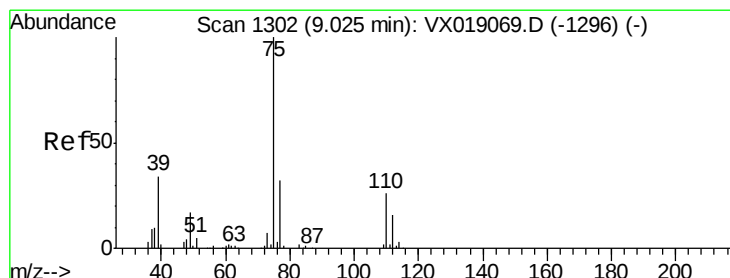
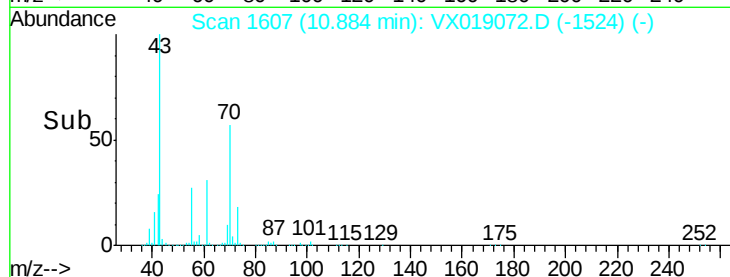
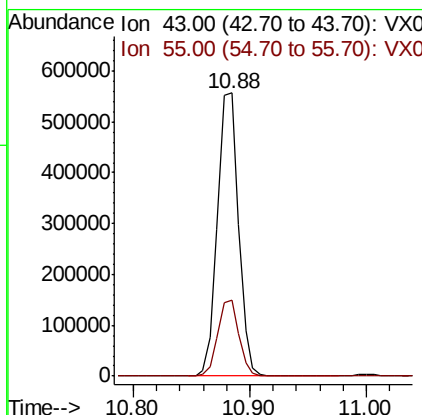
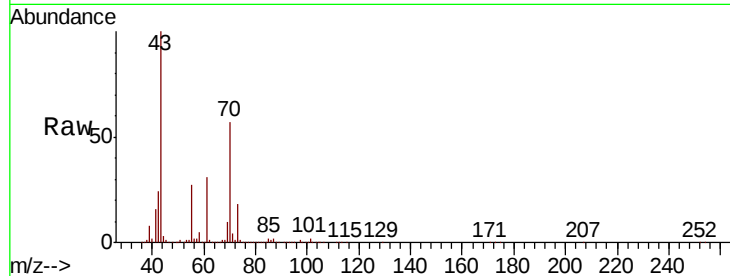




#47  
n-amvl Acetate  
Concen: 166.458 ug/l  
RT: 10.88 min Scan# 1607  
Delta R.T. 0.01 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

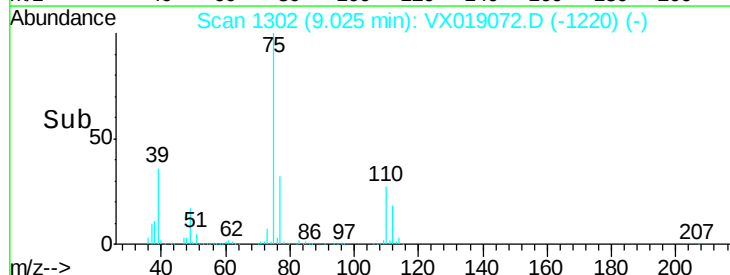
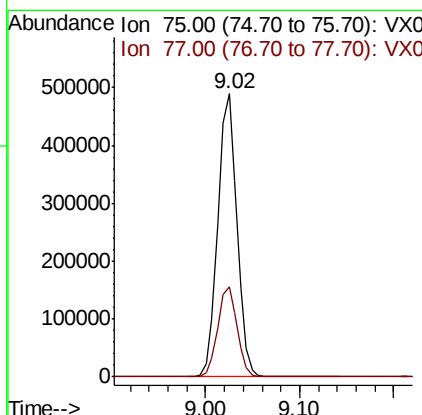
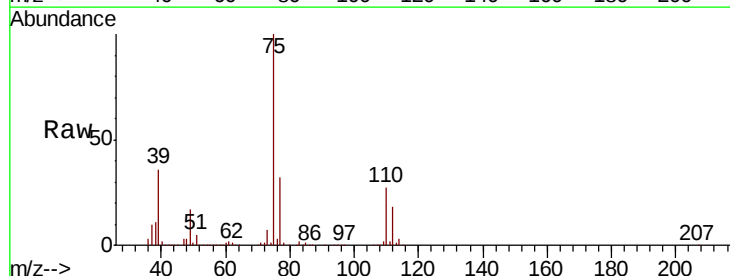
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDICC150

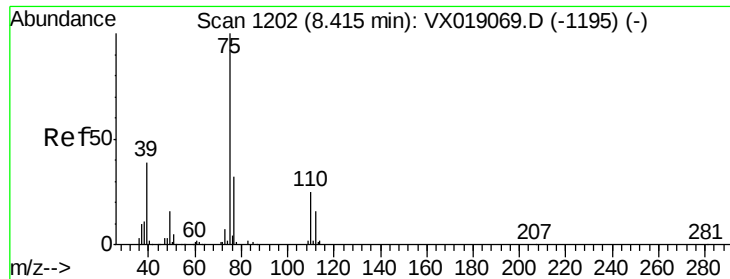
Tot Ion: 43 Resp: 693800  
Ion Ratio Lower Upper  
43 100  
55 26.7 21.5 32.3



#48  
t-1,3-Dichloropropene  
Concen: 158.214 ug/l  
RT: 9.02 min Scan# 1302  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Tgt Ion: 75 Resp: 689190  
Ion Ratio Lower Upper  
75 100  
77 31.8 25.3 37.9



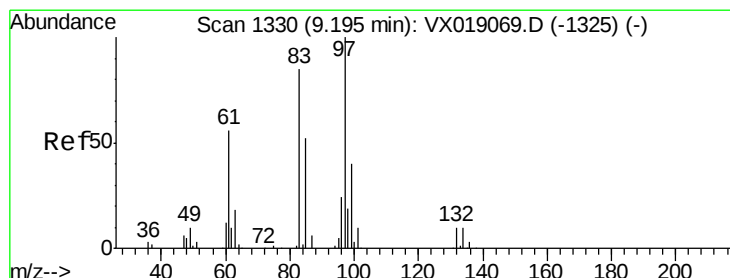
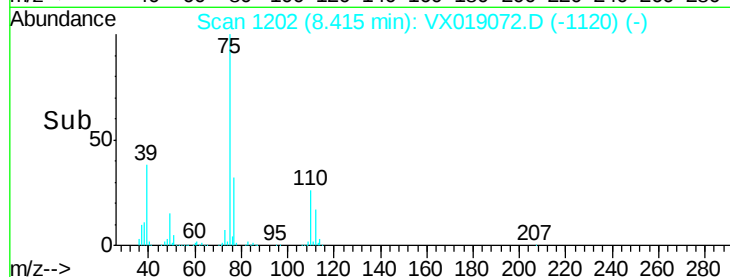
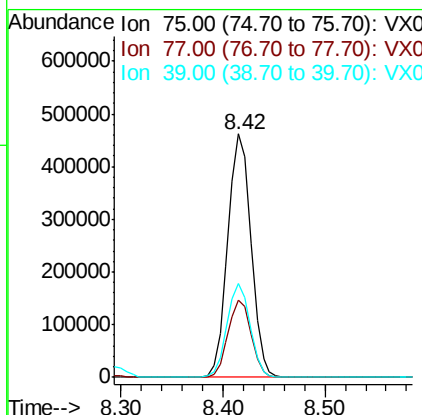
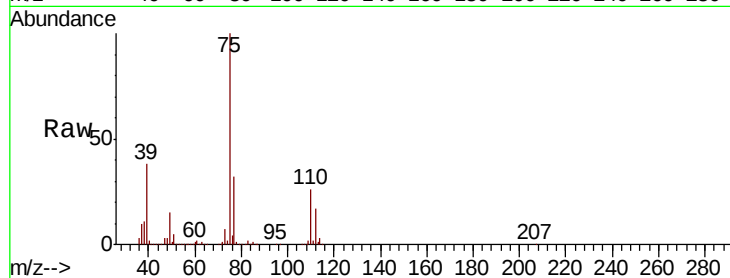


#49

cis-1,3-Dichloropropene  
Concen: 157.161 ug/l  
RT: 8.42 min Scan# 1202  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

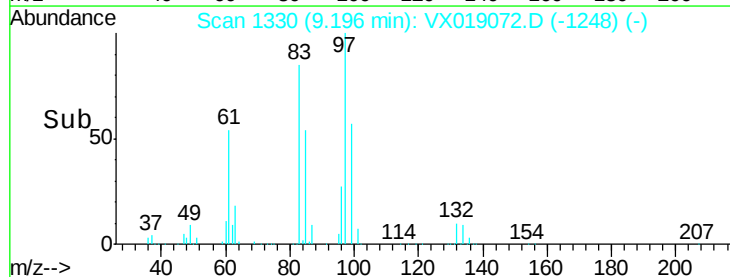
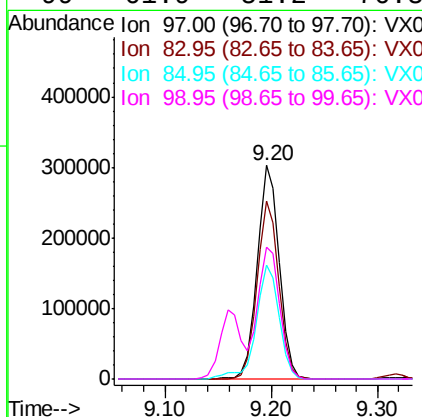
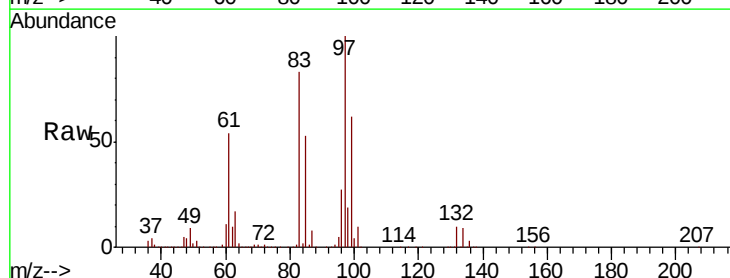
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.8  | 25.8  | 38.8  |
| 39      | 38.4  | 31.0  | 46.6  |

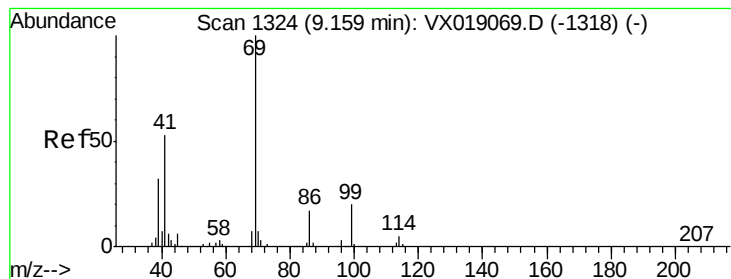


#50

1,1,2-Trichloroethane  
Concen: 154.272 ug/l  
RT: 9.20 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 83.5  | 67.8  | 101.6 |
| 85      | 53.4  | 43.5  | 65.3  |
| 99      | 61.9  | 51.2  | 76.8  |





#51

Ethyl methacrylate

Concen: 156.906 ug/l

RT: 9.16 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

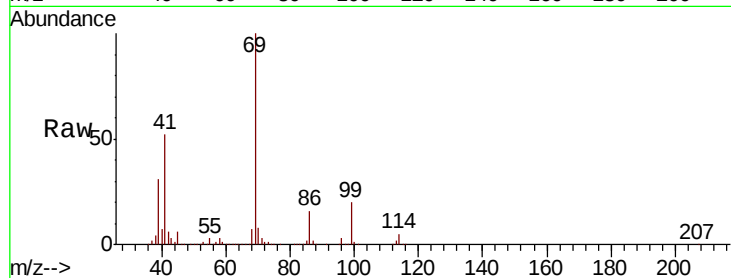
Tot Ion: 69 Resp: 652656

Ion Ratio Lower Upper

69 100

41 52.3 26.5 79.4

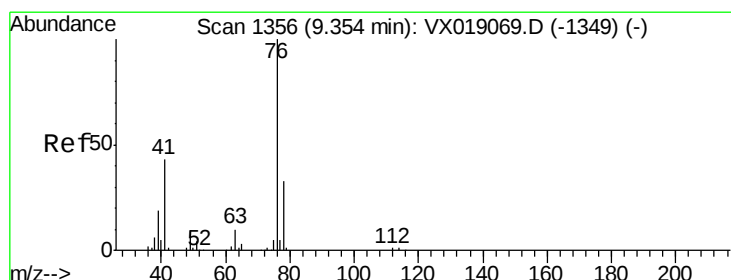
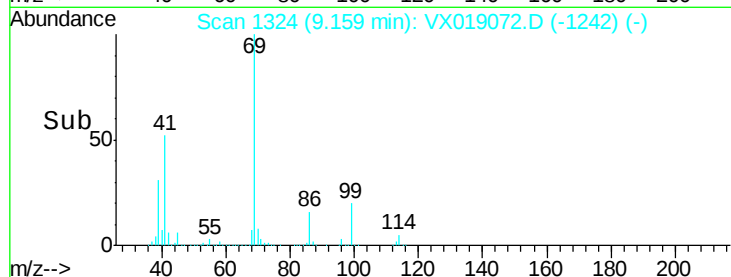
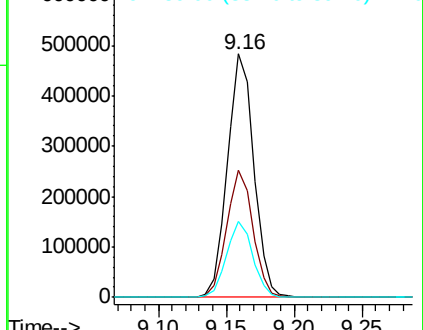
39 31.3 16.2 48.6



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: 151.123 ug/l

RT: 9.35 min Scan# 1356

Delta R.T. 0.00 min

Lab File: VX019072.D

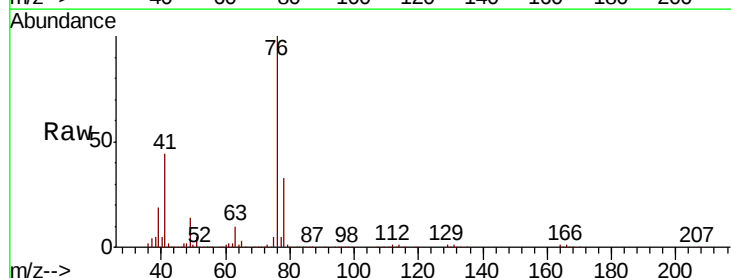
Acq: 23 Oct 2020 11:23

Tgt Ion: 76 Resp: 701819

Ion Ratio Lower Upper

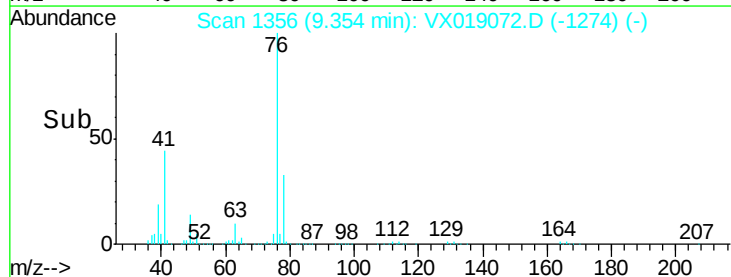
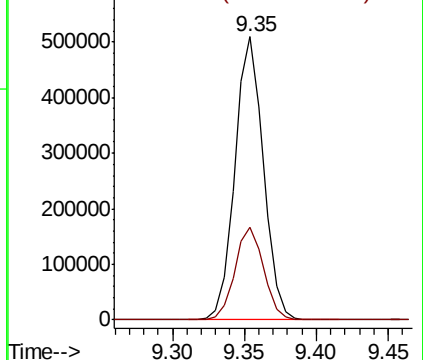
76 100

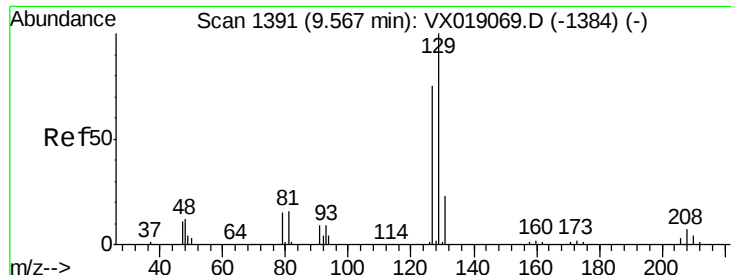
78 33.0 0.0 65.2



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

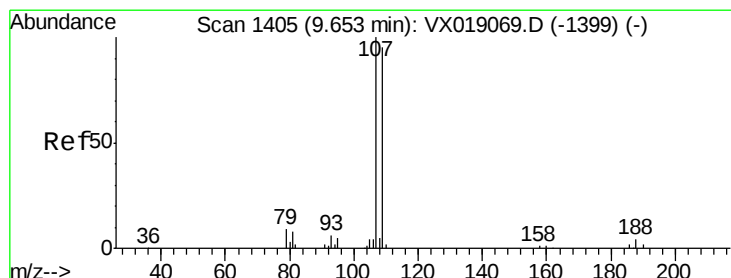
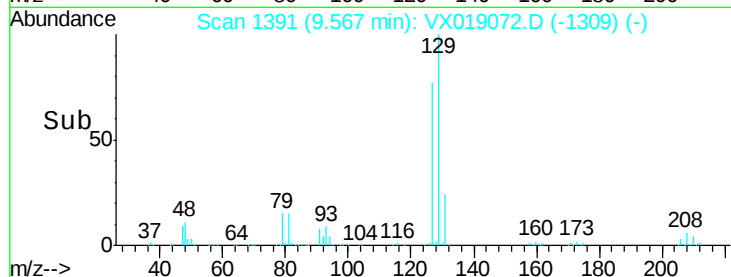
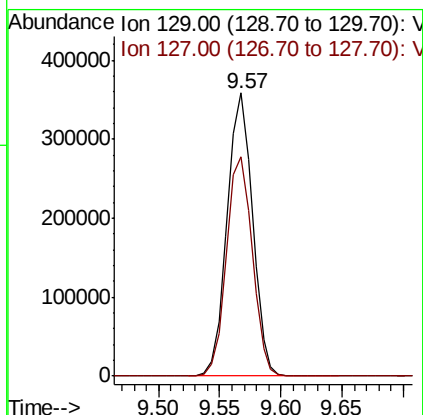
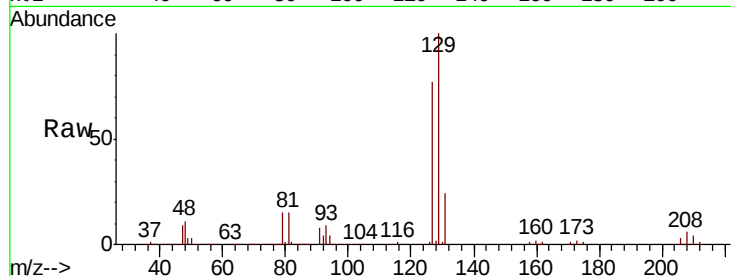




#53  
 Dibromochloromethane  
 Concen: 162.444 ug/l  
 RT: 9.57 min Scan# 1391  
 Delta R.T. 0.00 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

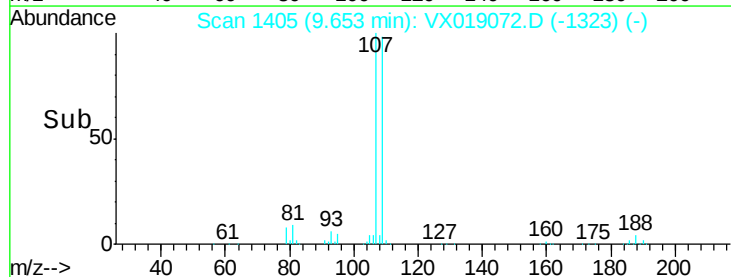
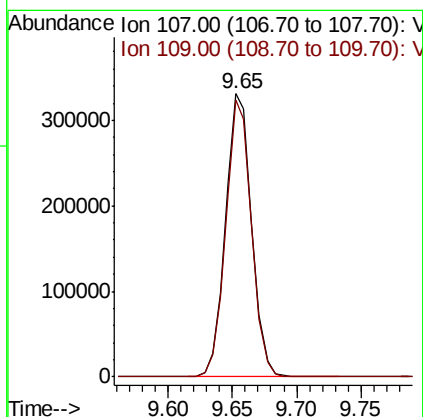
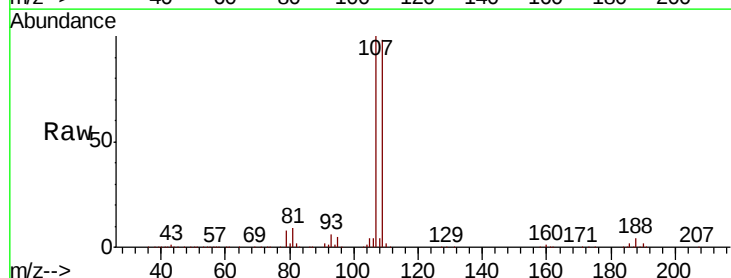
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDIC150

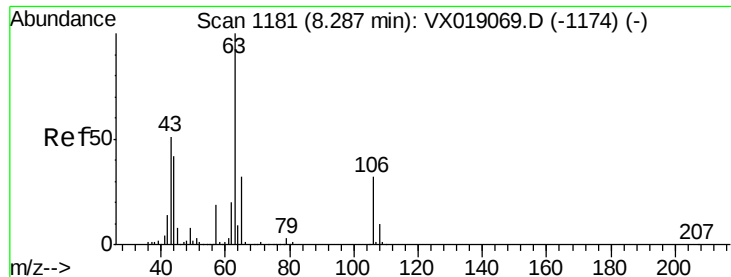
Tot Ion:129 Resp: 515505  
 Ion Ratio Lower Upper  
 129 100  
 127 78.6 38.4 115.1



#54  
 1,2-Dibromoethane  
 Concen: 151.919 ug/l  
 RT: 9.65 min Scan# 1405  
 Delta R.T. 0.00 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

Tgt Ion:107 Resp: 470589  
 Ion Ratio Lower Upper  
 107 100  
 109 96.3 74.6 112.0

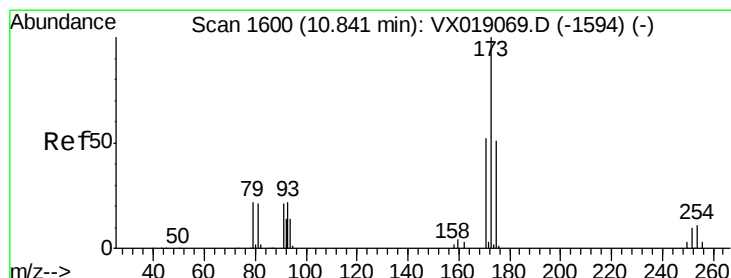
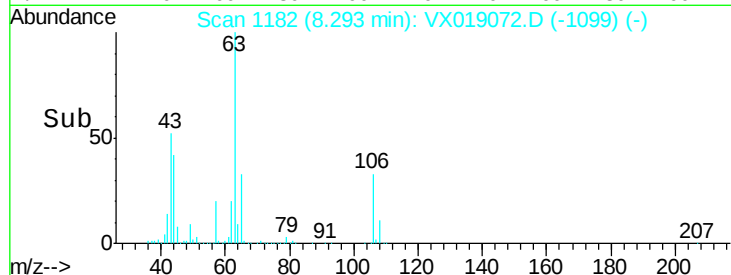
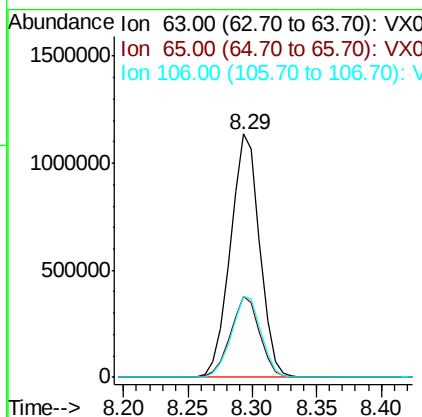
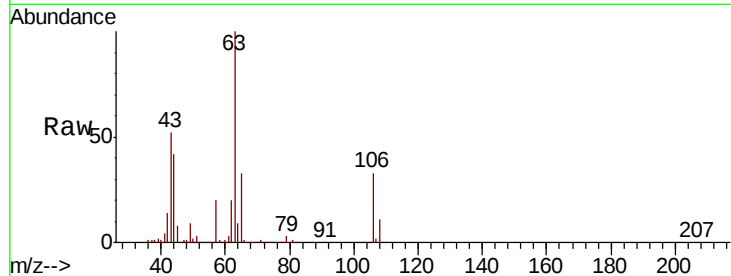




#55  
 2-Chloroethyl vinyl ether  
 Concen: 811.018 ug/l  
 RT: 8.29 min Scan# 1182  
 Delta R.T. 0.01 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

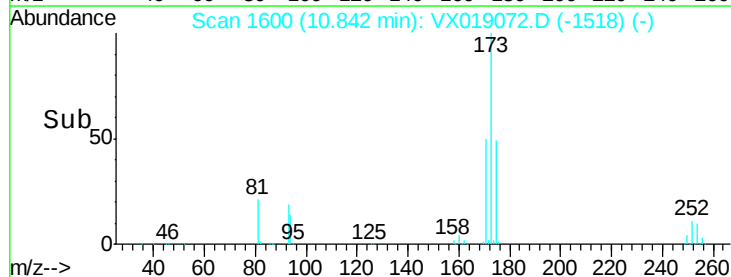
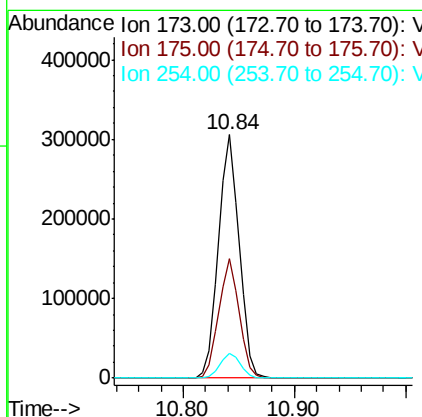
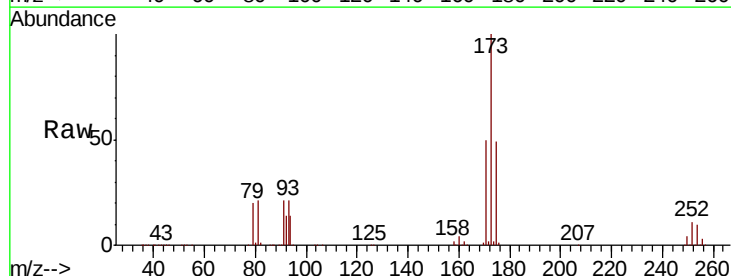
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDIC150

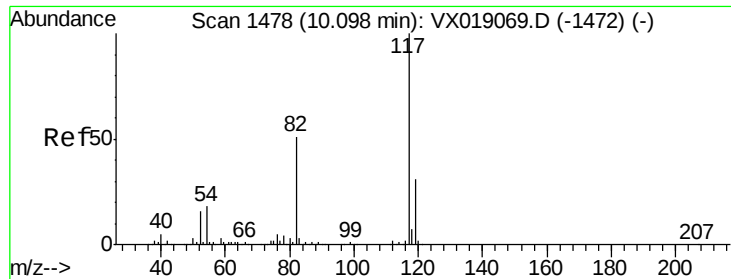
Tot Ion: 63 Resp: 1802845  
 Ion Ratio Lower Upper  
 63 100  
 65 33.1 26.0 39.0  
 106 33.5 25.9 38.9



#56  
 Bromoform  
 Concen: 177.400 ug/l  
 RT: 10.84 min Scan# 1600  
 Delta R.T. 0.00 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

Tgt Ion:173 Resp: 393571  
 Ion Ratio Lower Upper  
 173 100  
 175 48.4 39.6 59.4  
 254 10.3 8.6 13.0

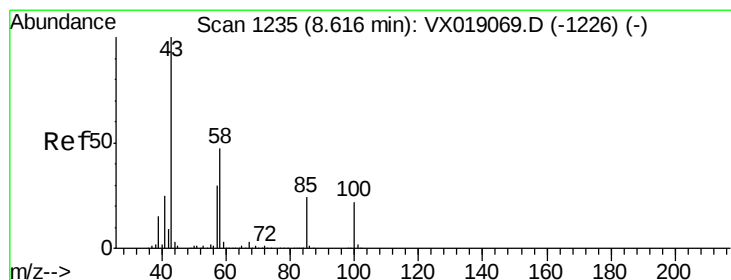
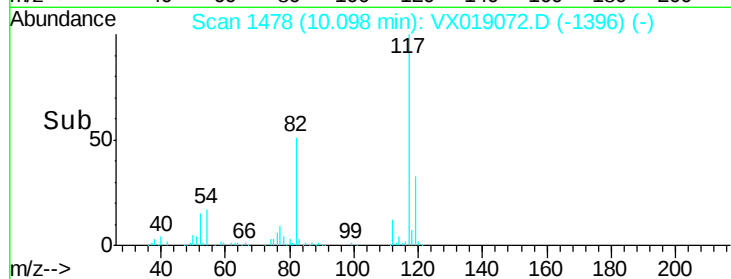
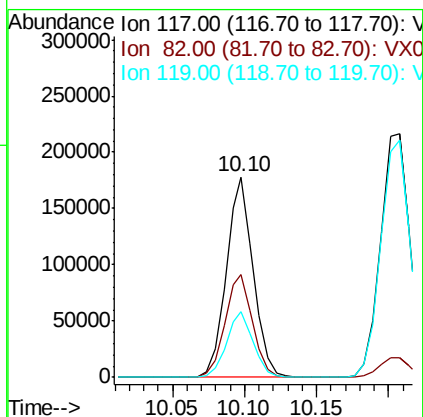
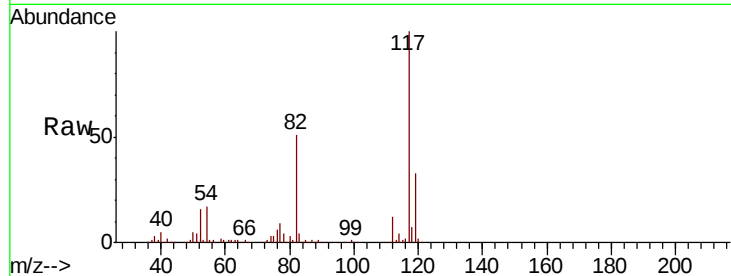




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

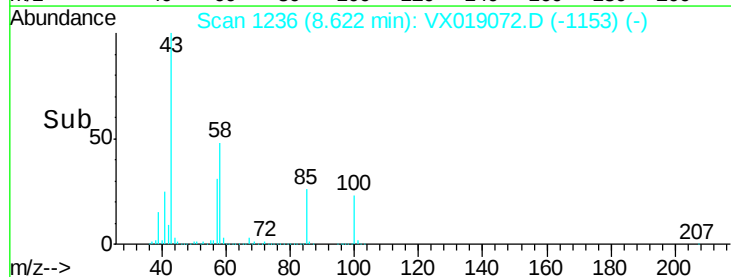
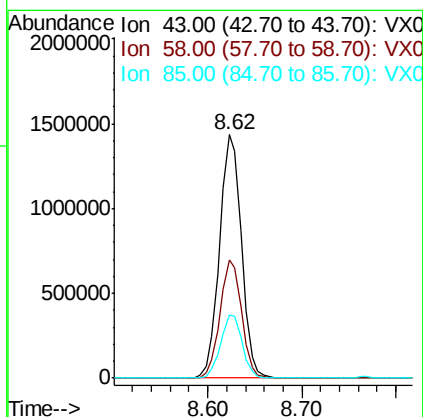
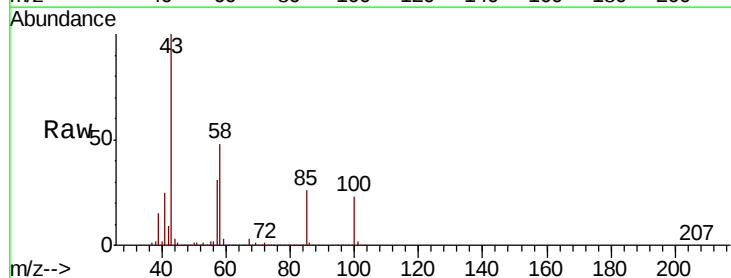
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

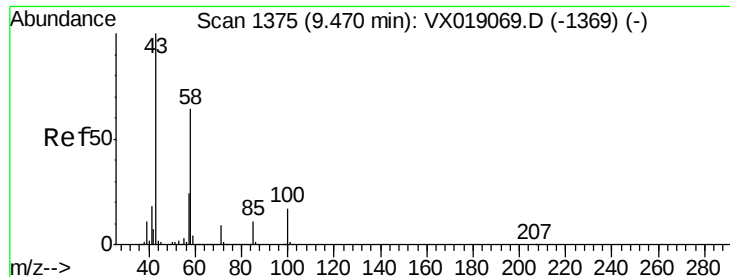
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.3  | 42.5  | 63.7  |
| 119     | 32.6  | 25.6  | 38.4  |



#58  
4-Methyl-2-Pentanone  
Concen: 789.986 ug/l  
RT: 8.62 min Scan# 1236  
Delta R.T. 0.01 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 47.9  | 37.6  | 56.4  |
| 85      | 25.6  | 19.4  | 29.2  |

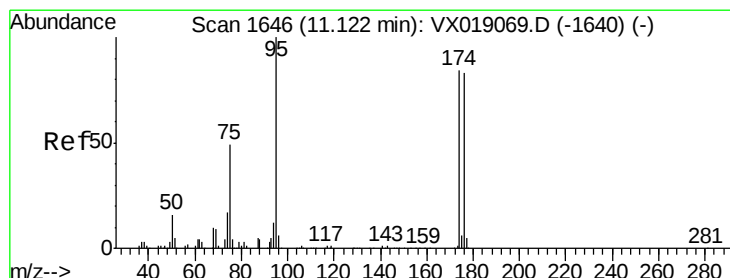
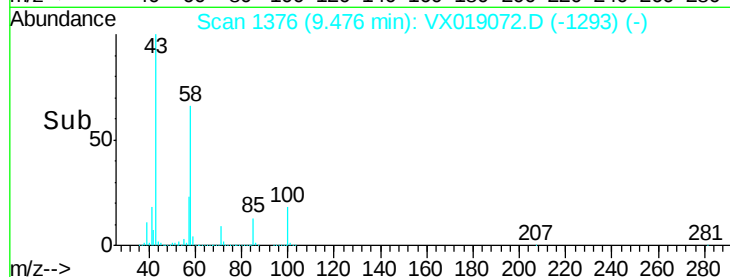
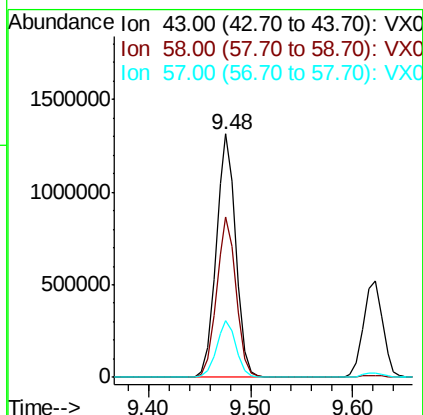
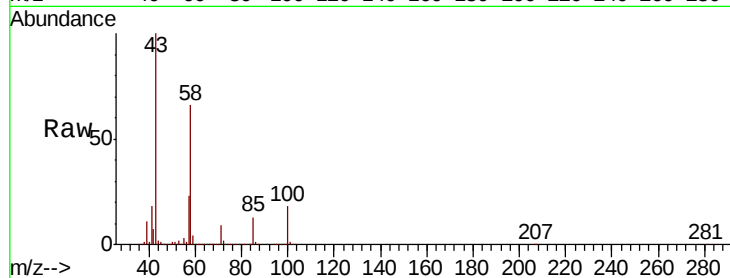




#59  
2-Hexanone  
Concen: 811.393 ug/l  
RT: 9.48 min Scan# 1376  
Delta R.T. 0.01 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

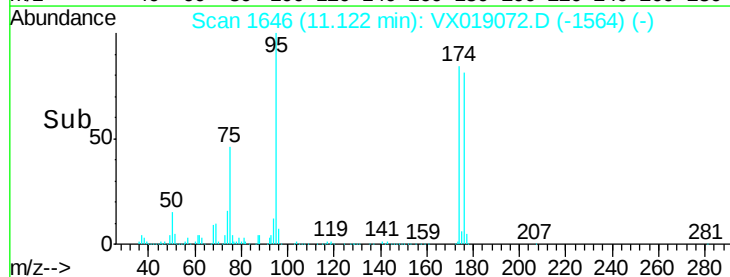
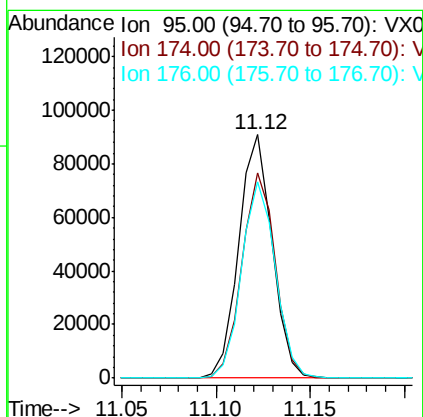
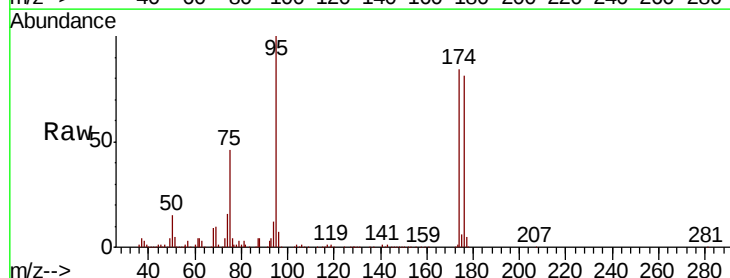
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

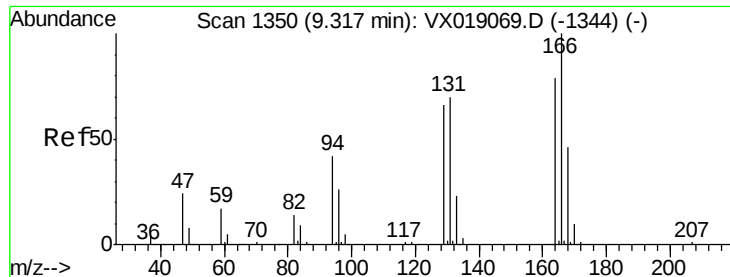
Tot Ion: 43 Resp: 1767052  
Ion Ratio Lower Upper  
43 100  
58 65.7 51.9 77.9  
57 23.1 18.2 27.4



#60  
4-Bromofluorobenzene  
Concen: 32.073 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Tgt Ion: 95 Resp: 111562  
Ion Ratio Lower Upper  
95 100  
174 84.5 66.3 99.5  
176 81.9 65.5 98.3





#61

Tetrachloroethene

Concen: 153.420 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

Tot Ion:164 Resp: 421801

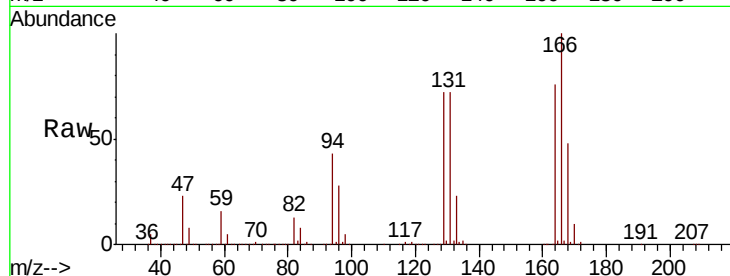
Ion Ratio Lower Upper

164 100

166 131.8 101.9 152.9

129 94.2 67.0 100.6

131 95.0 71.1 106.7

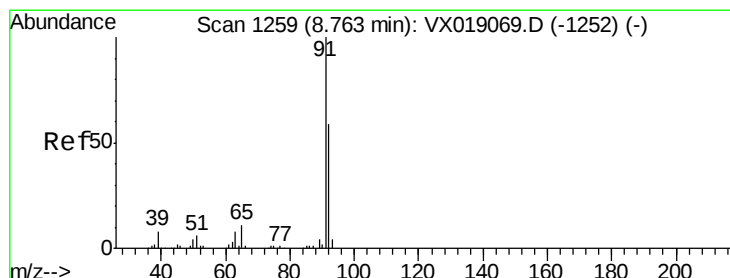
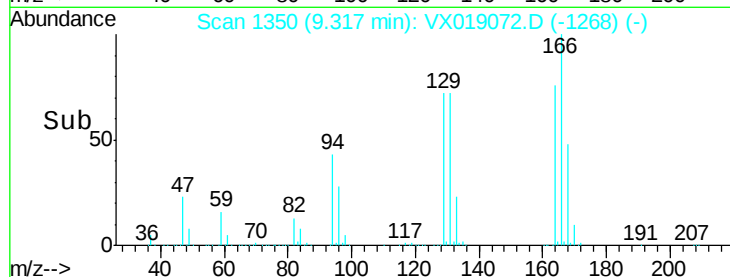
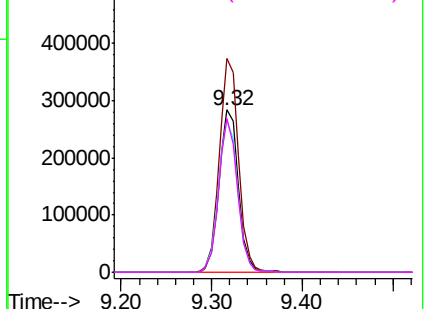


Abundance Ion 163.85 (163.55 to 164.55): V

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: 157.642 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX019072.D

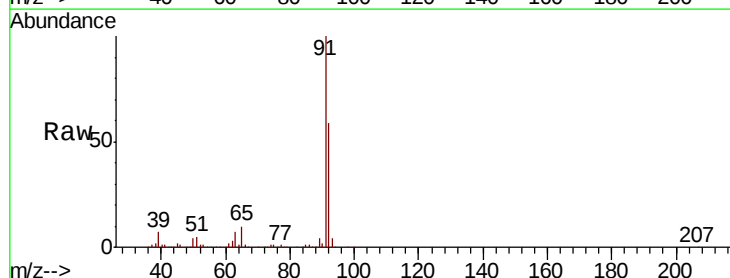
Acq: 23 Oct 2020 11:23

Tgt Ion: 91 Resp: 1920069

Ion Ratio Lower Upper

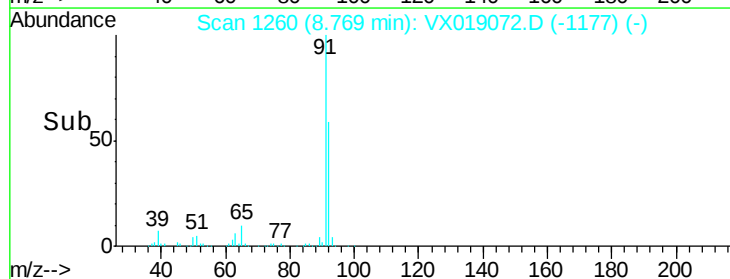
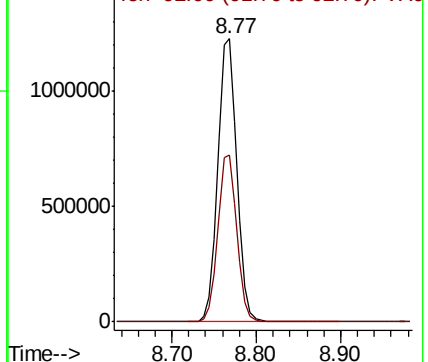
91 100

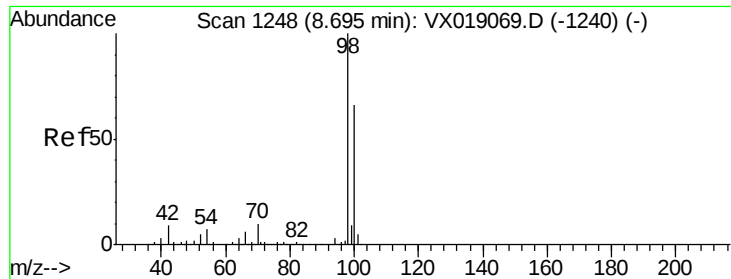
92 58.7 47.3 70.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.367 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

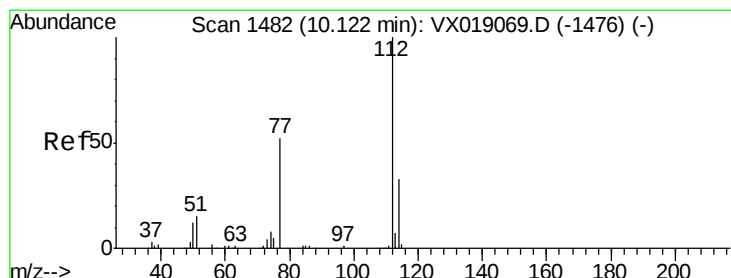
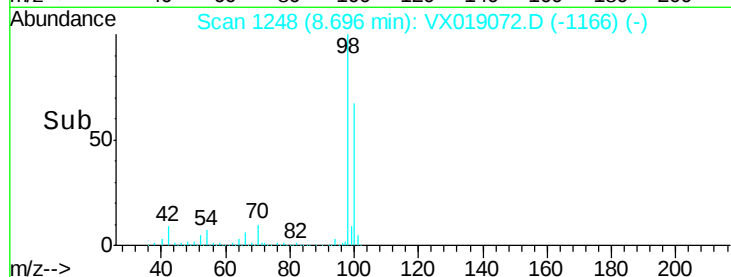
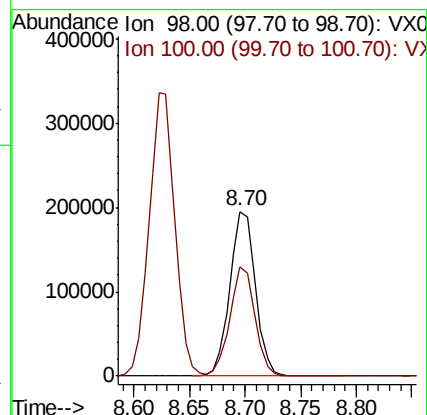
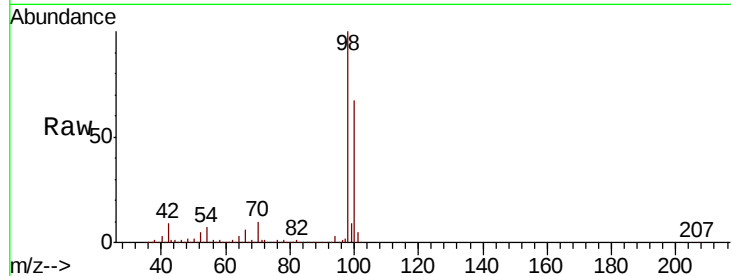
VSTDIC150

Tot Ion: 98 Resp: 310717

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.4



#64

Chlorobenzene

Concen: 158.647 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX019072.D

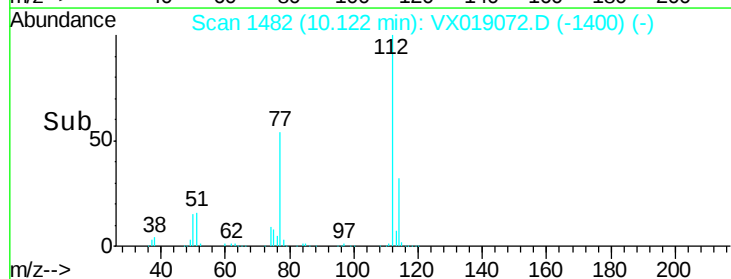
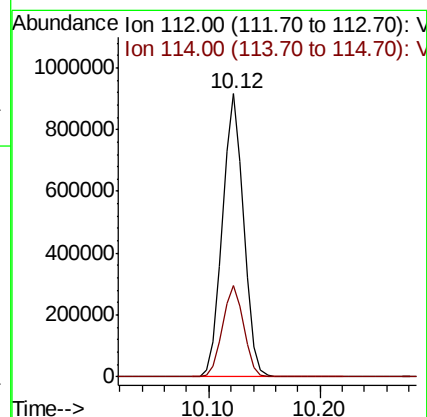
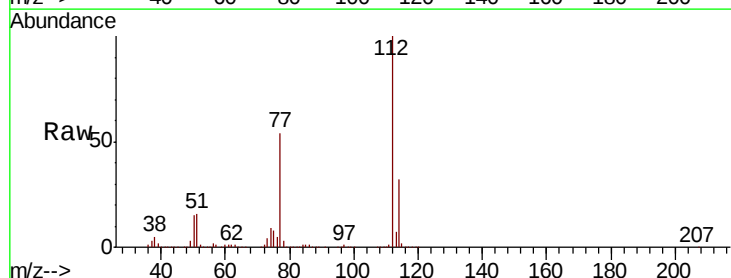
Acq: 23 Oct 2020 11:23

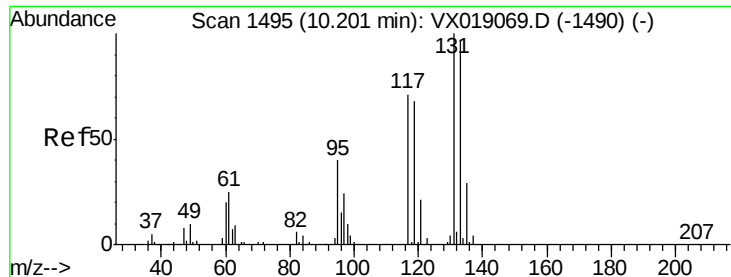
Tgt Ion: 112 Resp: 1201171

Ion Ratio Lower Upper

112 100

114 32.1 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 163.627 ug/l

RT: 10.21 min Scan# 1496

Delta R.T. 0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

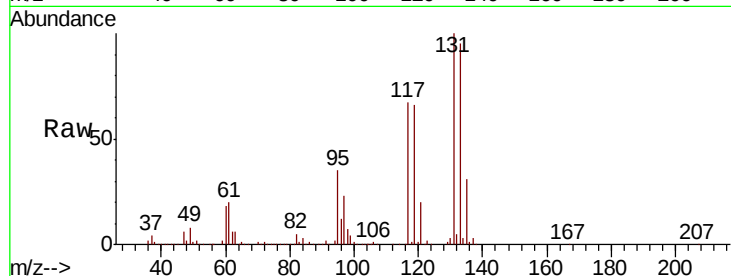
Tot Ion:131 Resp: 450569

Ion Ratio Lower Upper

131 100

133 94.9 0.0 191.6

119 65.7 0.0 130.0

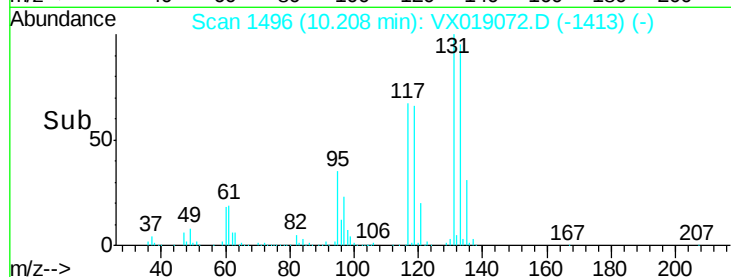


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

Time-->



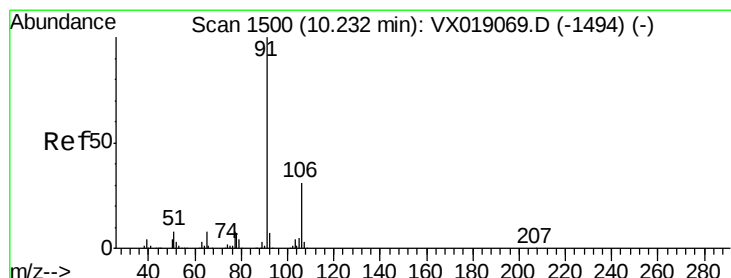
Abundance

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

Time-->



#66

Ethyl Benzene

Concen: 158.365 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX019072.D

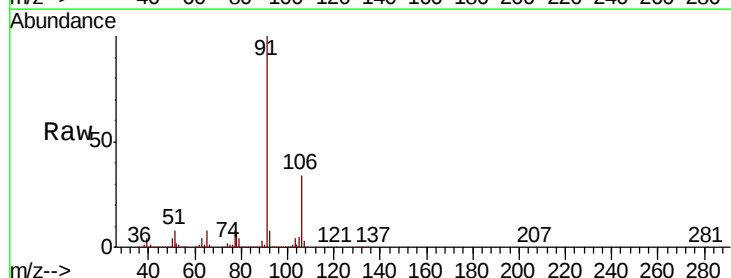
Acq: 23 Oct 2020 11:23

Tgt Ion: 91 Resp: 2114717

Ion Ratio Lower Upper

91 100

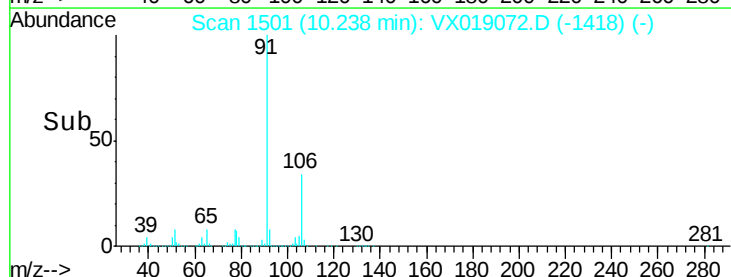
106 33.7 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

Time-->

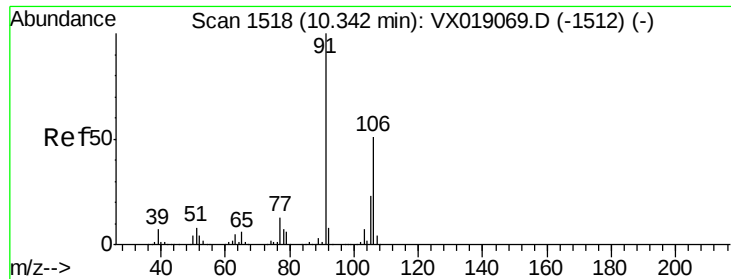


Abundance

Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

Time-->



#67

m/p-Xylenes

Concen: 326.297 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

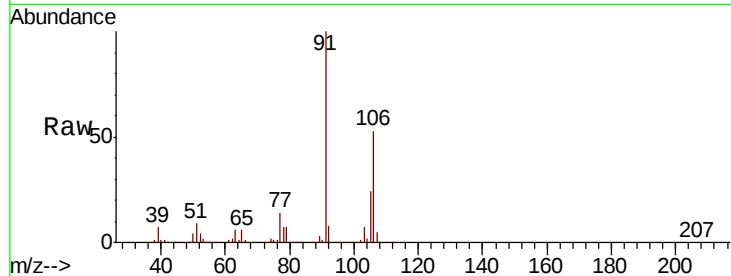
VSTDIC150

Tot Ion:106 Resp: 1661690

Ion Ratio Lower Upper

106 100

91 193.0 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

2500000

2000000

1500000

1000000

500000

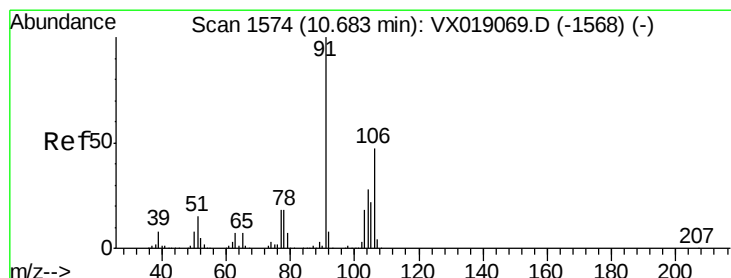
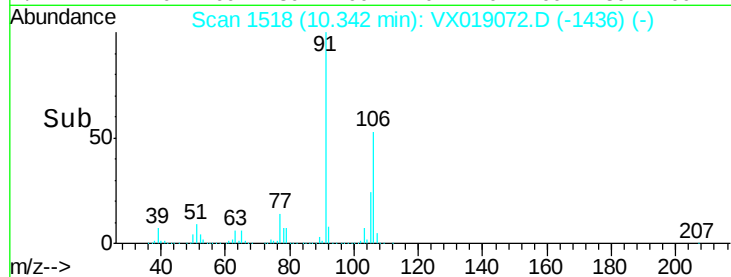
0

10.34

10.30

10.40

Time-->



#68

o-Xylene

Concen: 164.478 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX019072.D

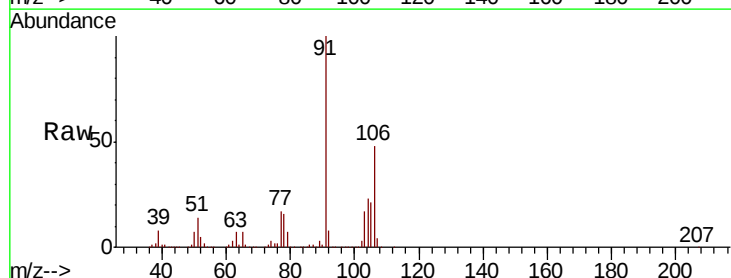
Acq: 23 Oct 2020 11:23

Tgt Ion:106 Resp: 798866

Ion Ratio Lower Upper

106 100

91 204.4 103.8 311.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

1500000

1000000

500000

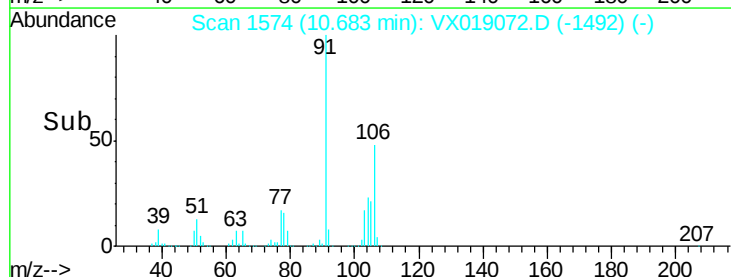
0

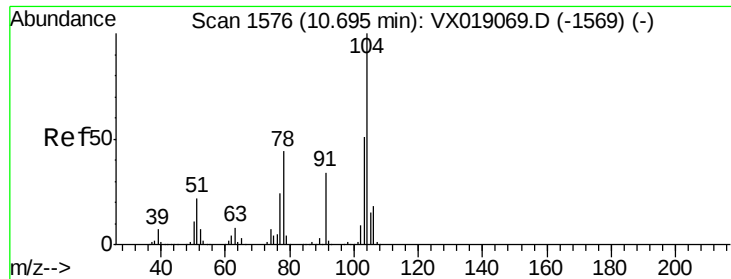
10.68

10.60

10.70

Time-->

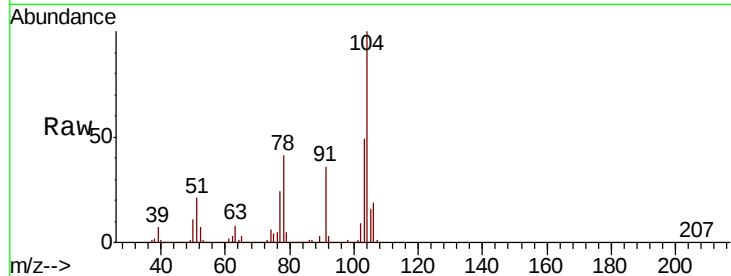




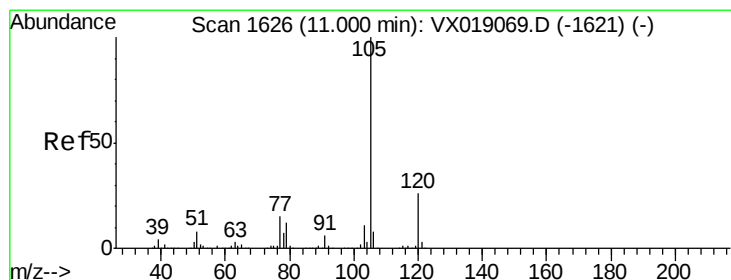
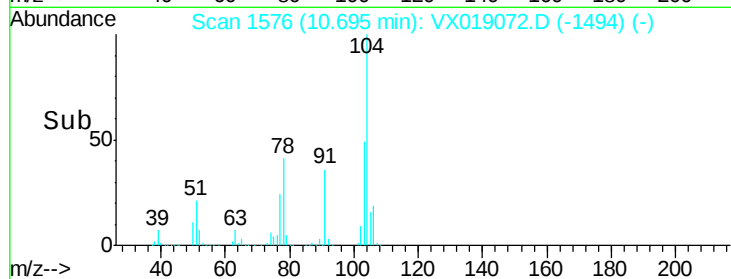
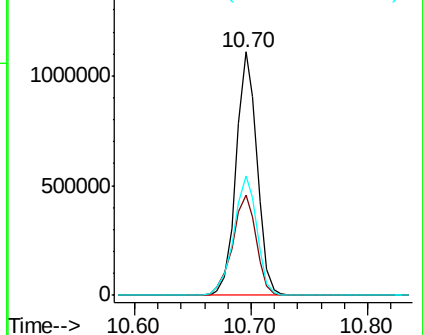
#69  
Stvrene  
Concen: 169.554 ug/l  
RT: 10.70 min Scan# 1576  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

Tot Ion:104 Resp: 1387510  
Ion Ratio Lower Upper  
104 100  
78 46.6 38.6 58.0  
103 54.2 43.4 65.2

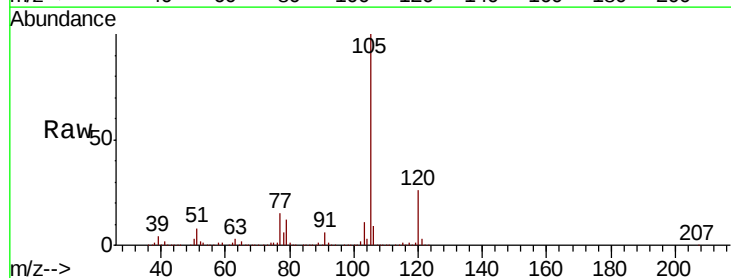


Abundance Ion 104.00 (103.70 to 104.70): V  
1500000  
Ion 78.00 (77.70 to 78.70): VX0  
Ion 103.00 (102.70 to 103.70): V

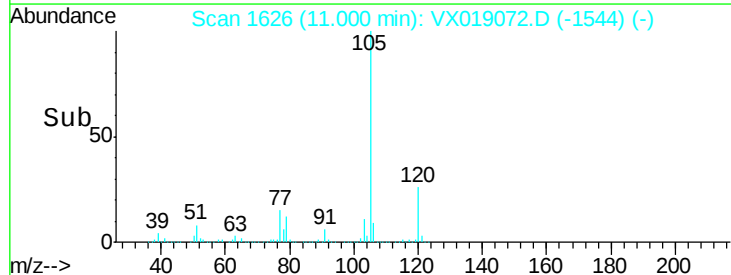
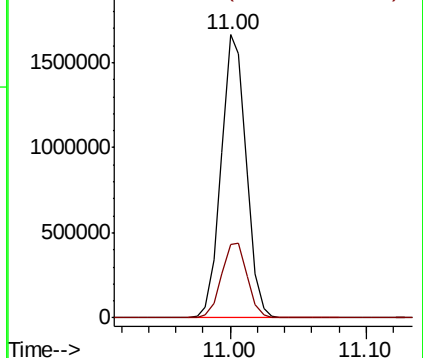


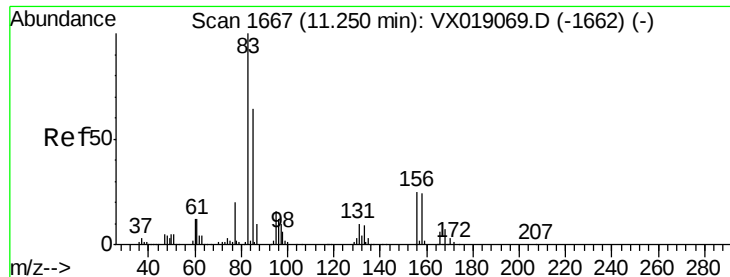
#70  
Isopropylbenzene  
Concen: 161.882 ug/l  
RT: 11.00 min Scan# 1626  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Tgt Ion:105 Resp: 2114084  
Ion Ratio Lower Upper  
105 100  
120 27.3 19.0 35.4



Abundance Ion 105.00 (104.70 to 105.70): V  
1500000  
Ion 120.00 (119.70 to 120.70): V





#71

1,1,2,2-Tetrachloroethane

Concen: 172.033 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

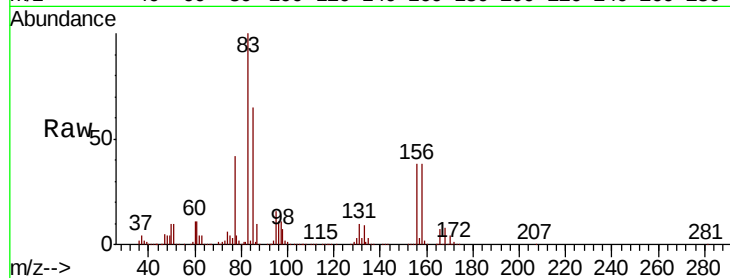
Tot Ion: 83 Resp: 648600

Ion Ratio Lower Upper

83 100

131 10.7 5.2 15.6

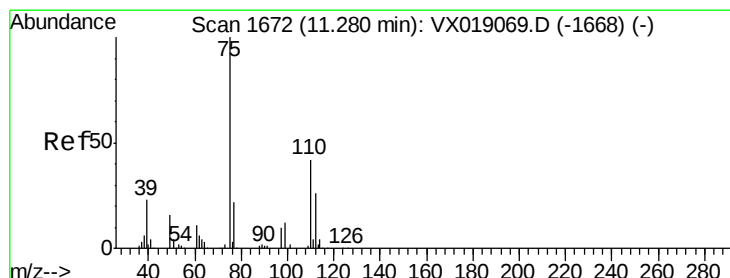
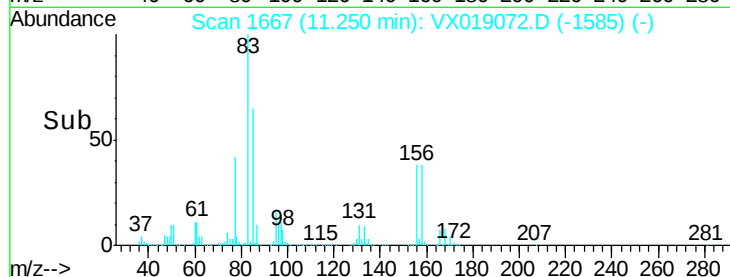
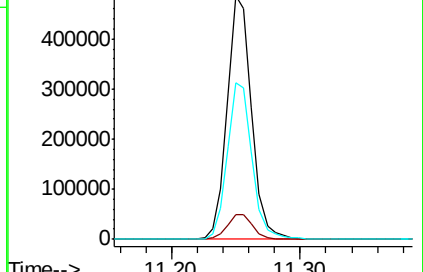
85 64.8 32.5 97.4



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 131.00 (130.70 to 131.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#72

1,2,3-Trichloropropane

Concen: 225.311 ug/l

RT: 11.28 min Scan# 1672

Delta R.T. 0.00 min

Lab File: VX019072.D

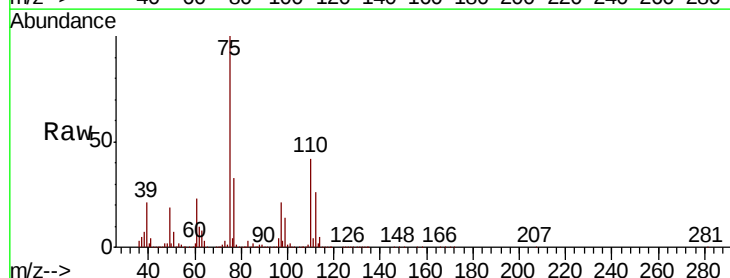
Acq: 23 Oct 2020 11:23

Tgt Ion: 75 Resp: 763909

Ion Ratio Lower Upper

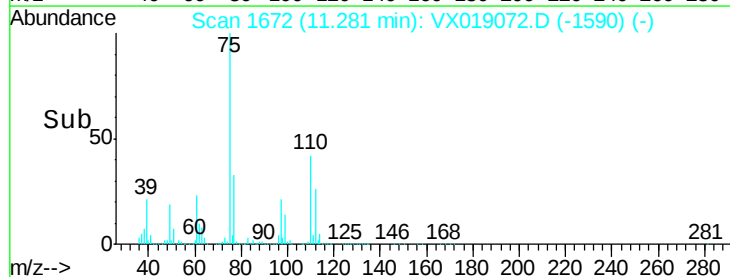
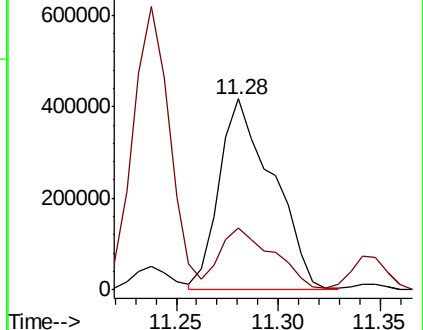
75 100

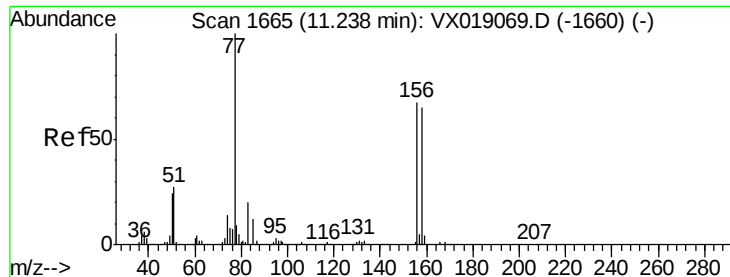
77 32.2 0.0 81.8



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#73

Bromobenzene

Concen: 168.451 ug/l

RT: 11.24 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

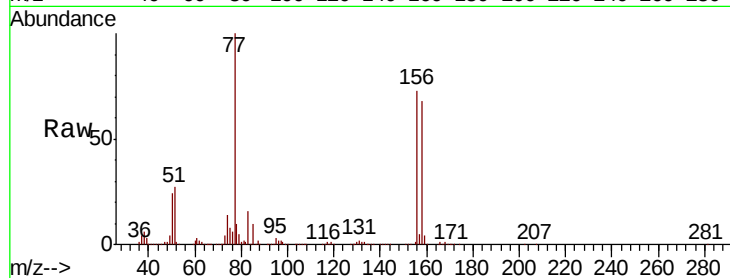
Tot Ion:156 Resp: 537640

Ion Ratio Lower Upper

156 100

77 144.2 0.0 299.6

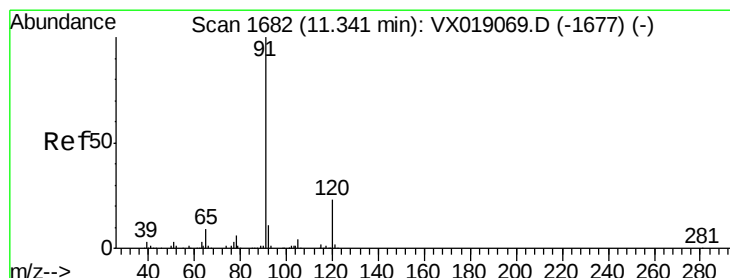
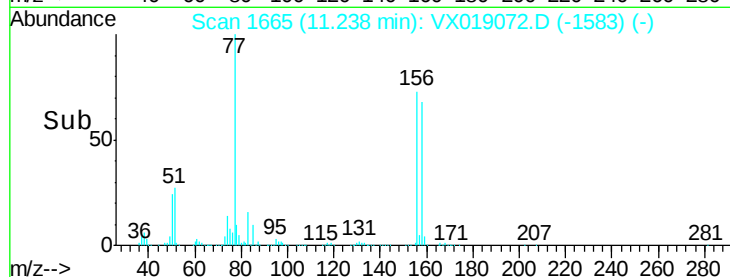
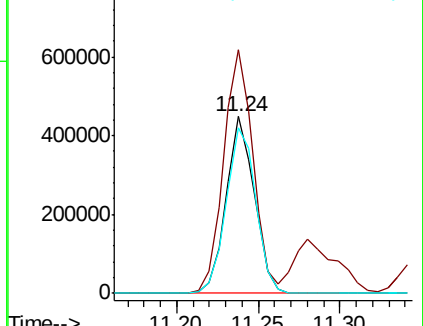
158 98.6 0.0 192.2



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: 164.922 ug/l

RT: 11.35 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VX019072.D

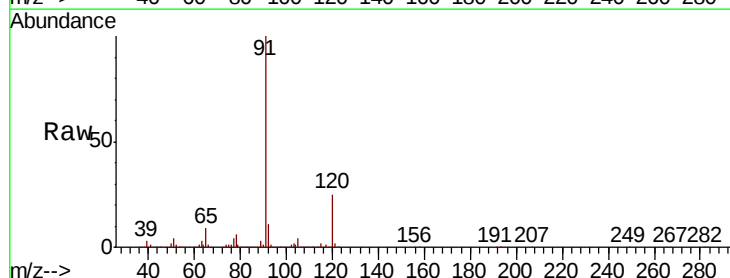
Acq: 23 Oct 2020 11:23

Tgt Ion: 91 Resp: 2438720

Ion Ratio Lower Upper

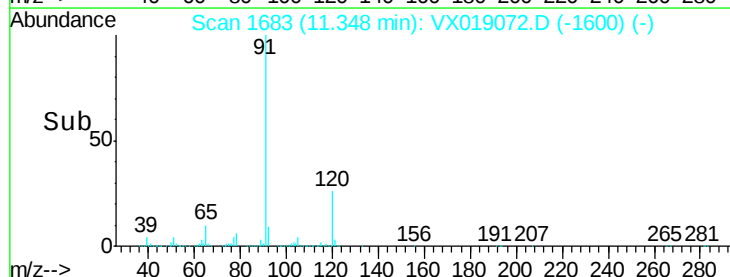
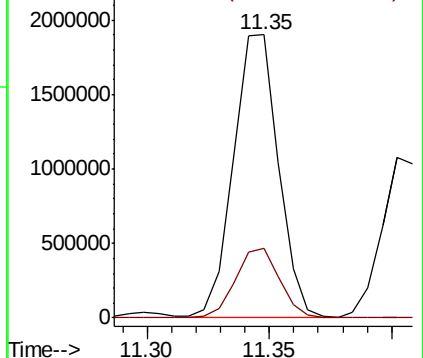
91 100

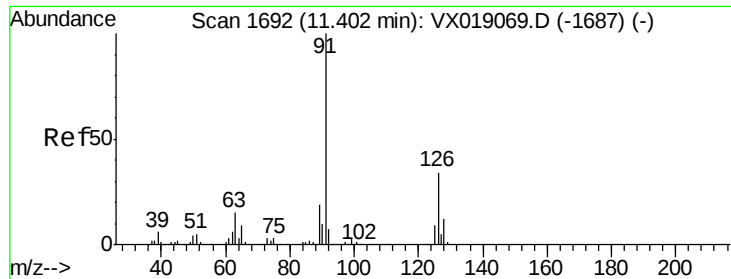
120 24.0 0.0 46.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 166.379 ug/l

RT: 11.40 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

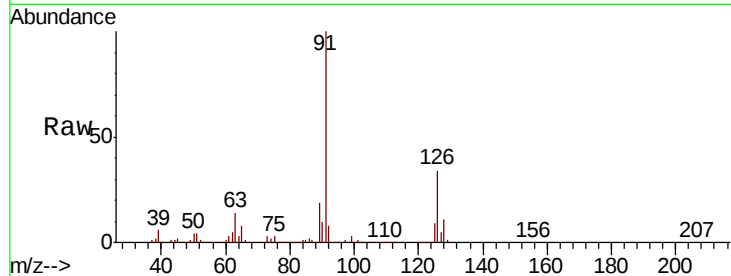
VSTDIC150

Tot Ion: 91 Resp: 1391642

Ion Ratio Lower Upper

91 100

126 35.8 0.0 69.0



Abundance Ion 91.00 (90.70 to 91.70): VX019069.D (-1687) (-)

Ion 126.00 (125.70 to 126.70): VX019069.D (-1687) (-)

2000000

1500000

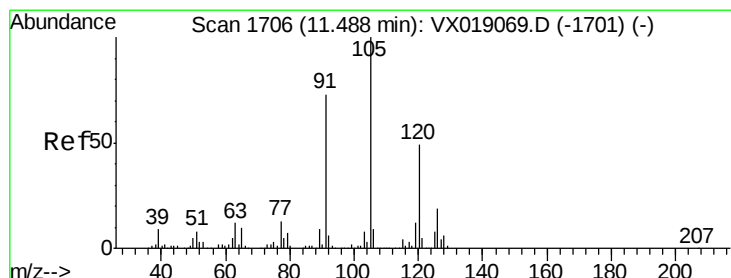
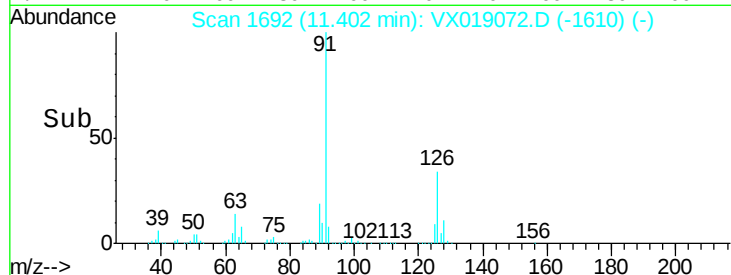
1000000

500000

0

11.35 11.40 11.45

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 169.437 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX019072.D

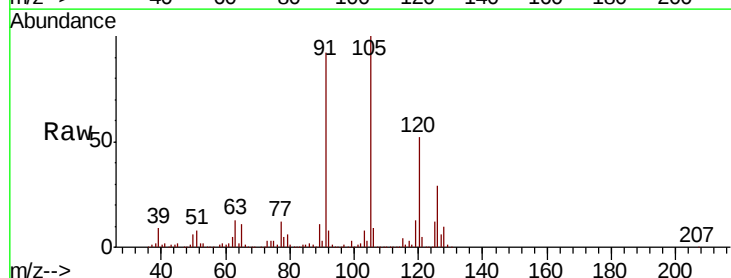
Acq: 23 Oct 2020 11:23

Tgt Ion: 105 Resp: 1795552

Ion Ratio Lower Upper

105 100

120 51.0 0.0 100.2



Abundance Ion 105.00 (104.70 to 105.70): VX019069.D (-1701) (-)

Ion 120.00 (119.70 to 120.70): VX019069.D (-1701) (-)

1500000

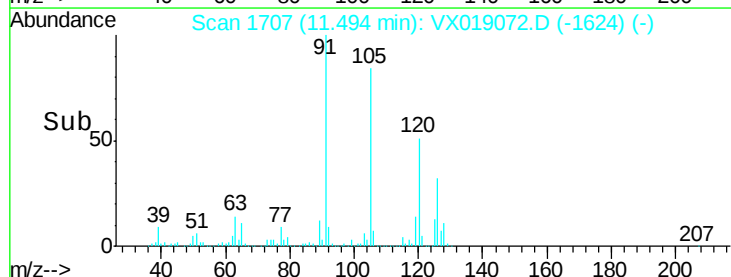
1000000

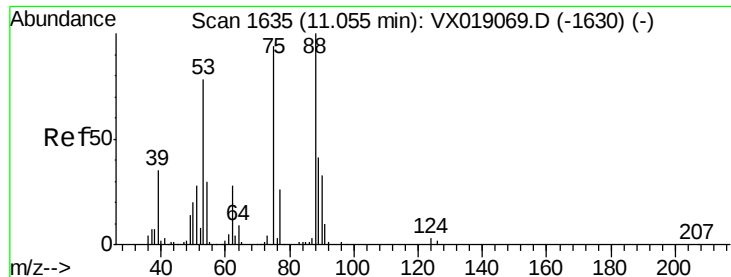
500000

0

11.45 11.50

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 177.608 ug/l

RT: 11.06 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

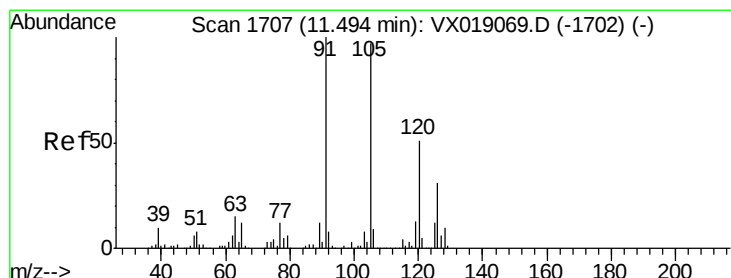
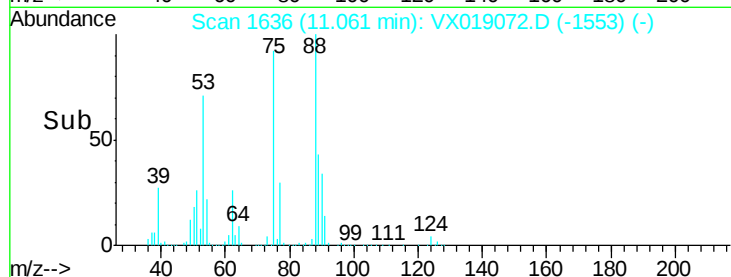
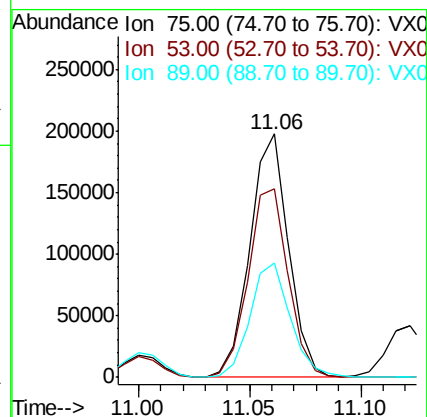
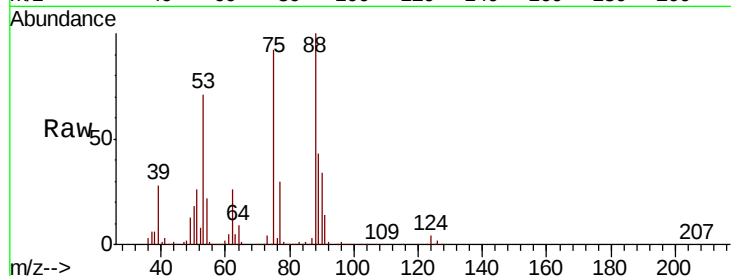
Tot Ion: 75 Resp: 239145

Ion Ratio Lower Upper

75 100

53 77.2 41.6 124.8

89 46.9 21.8 65.3



#78

4-Chlorotoluene

Concen: 169.298 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VX019072.D

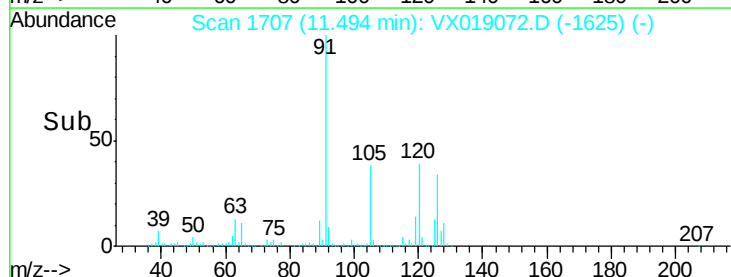
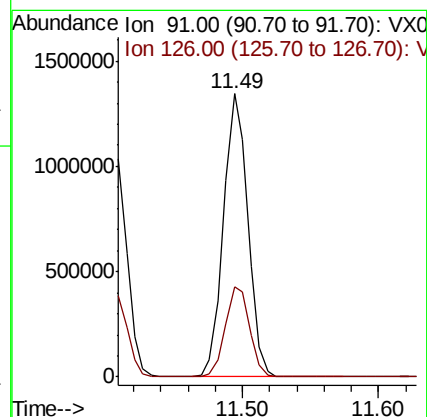
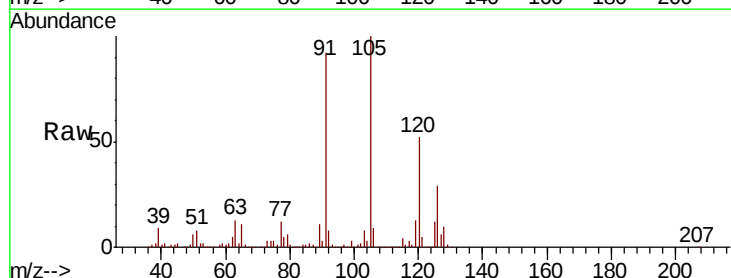
Acq: 23 Oct 2020 11:23

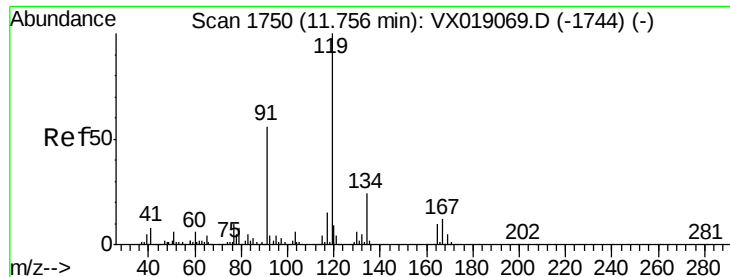
Tgt Ion: 91 Resp: 1664051

Ion Ratio Lower Upper

91 100

126 31.9 0.0 61.2

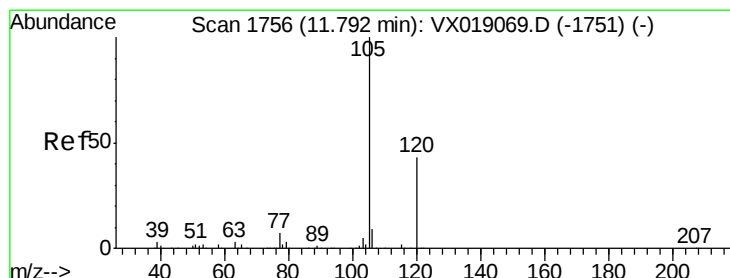
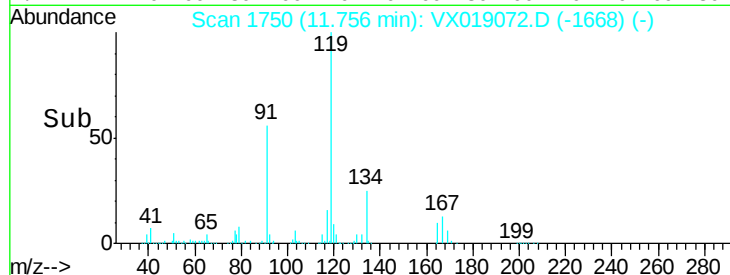
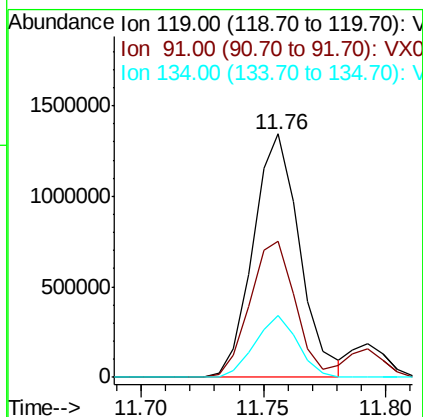
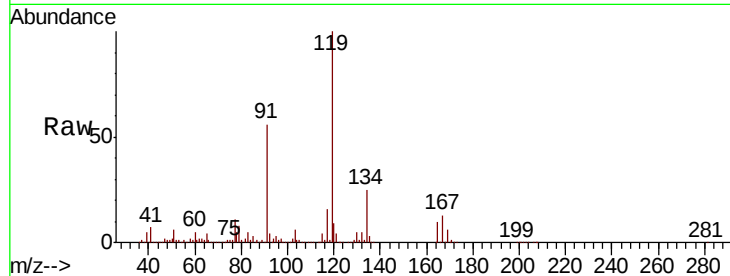




#79  
tert-butylbenzene  
Concen: 171.032 ug/l  
RT: 11.76 min Scan# 1750  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

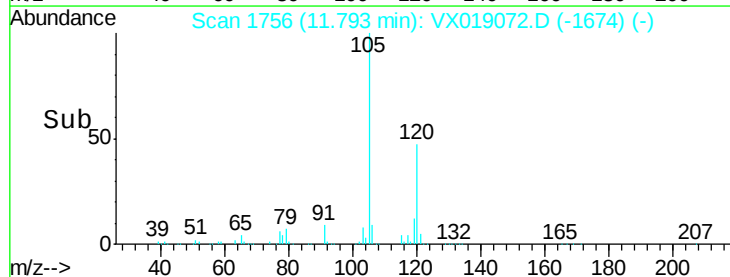
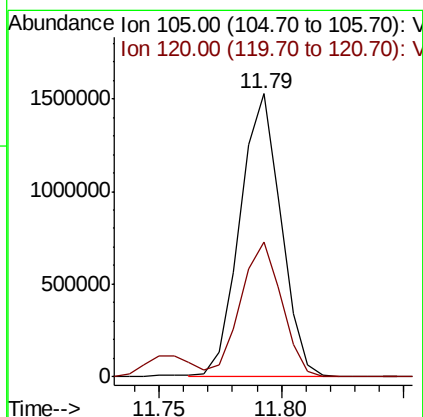
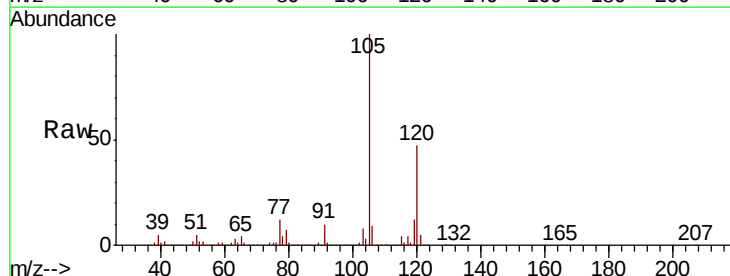
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

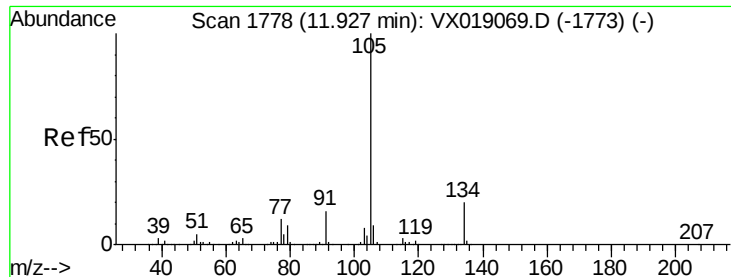
Tot Ion:119 Resp: 1784769  
Ion Ratio Lower Upper  
119 100  
91 54.3 0.0 111.4  
134 23.5 0.0 47.2



#80  
1,2,4-Trimethylbenzene  
Concen: 169.165 ug/l  
RT: 11.79 min Scan# 1756  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Tgt Ion:105 Resp: 1782021  
Ion Ratio Lower Upper  
105 100  
120 47.5 0.0 92.0





#81

sec-Butylbenzene

Concen: 169.463 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. 0.01 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

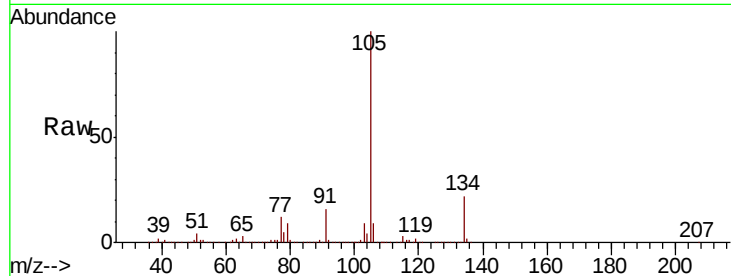
VSTDIC150

Tot Ion:105 Resp: 2092477

Ion Ratio Lower Upper

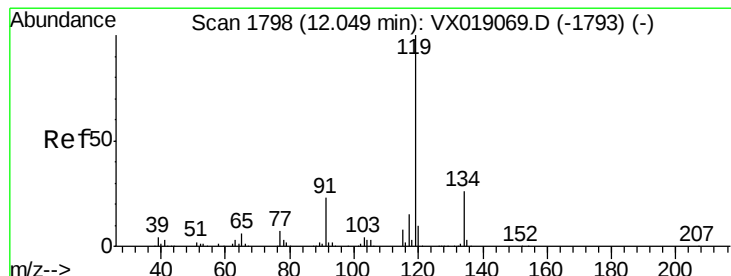
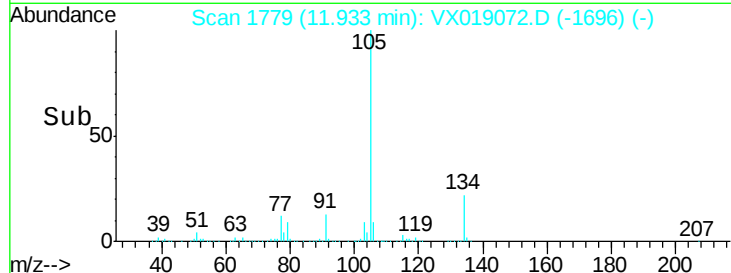
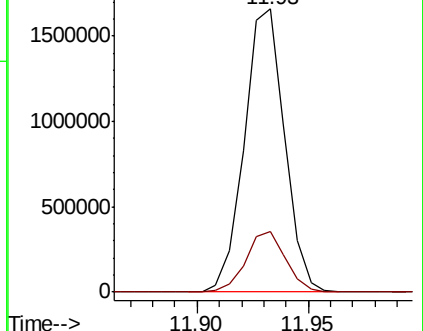
105 100

134 21.1 0.0 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 173.139 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

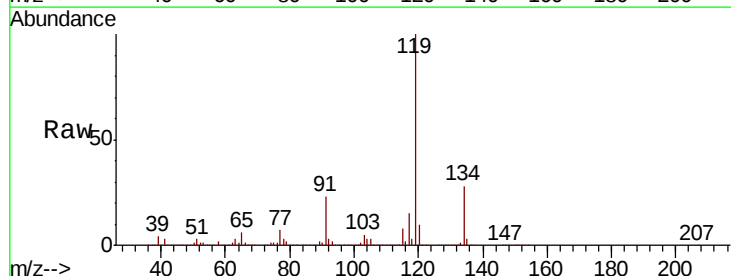
Tgt Ion:119 Resp: 1970296

Ion Ratio Lower Upper

119 100

134 27.0 0.0 52.0

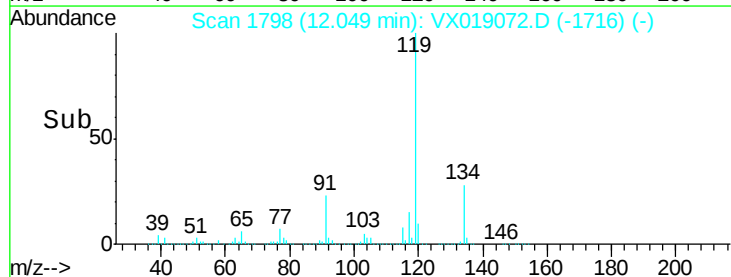
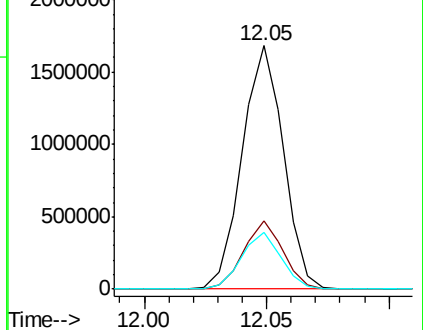
91 22.6 0.0 45.6

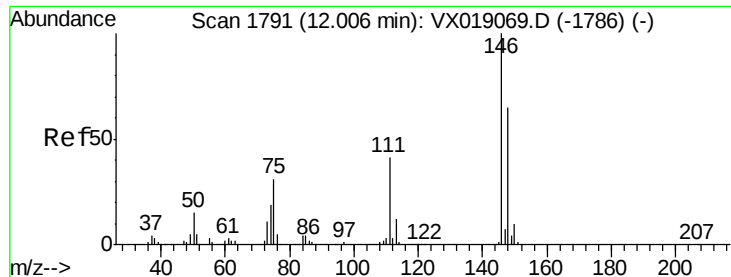


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

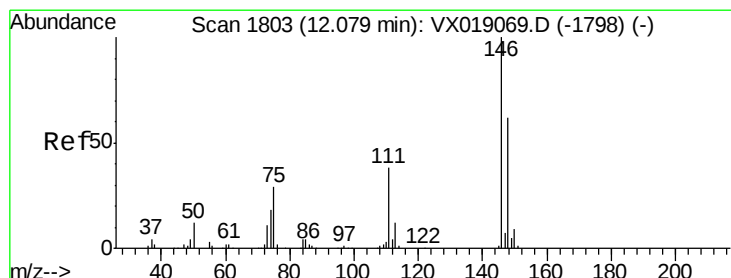
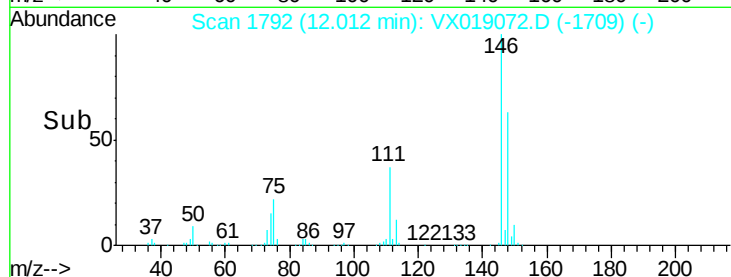
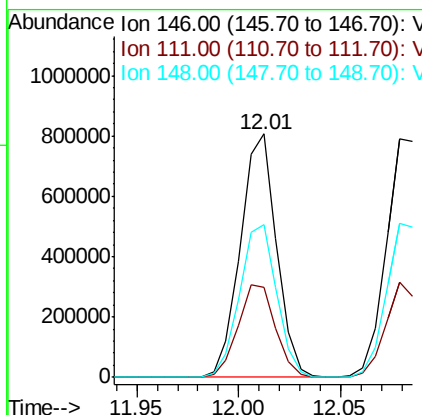
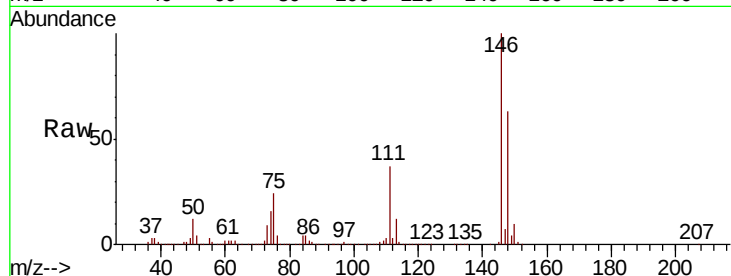




#83  
 1,3-Dichlorobenzene  
 Concen: 174.211 ug/l  
 RT: 12.01 min Scan# 1792  
 Delta R.T. 0.01 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

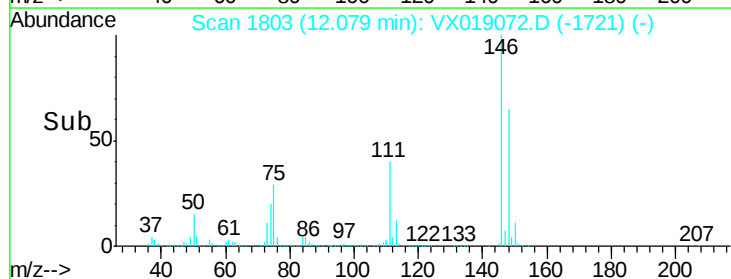
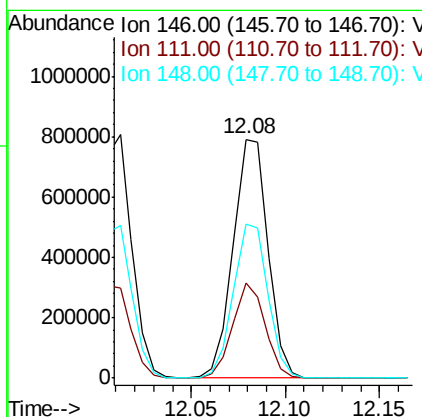
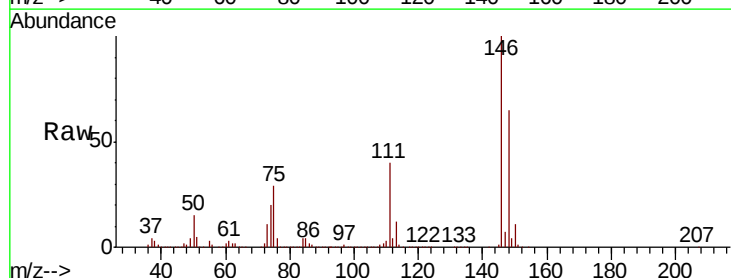
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDIC150

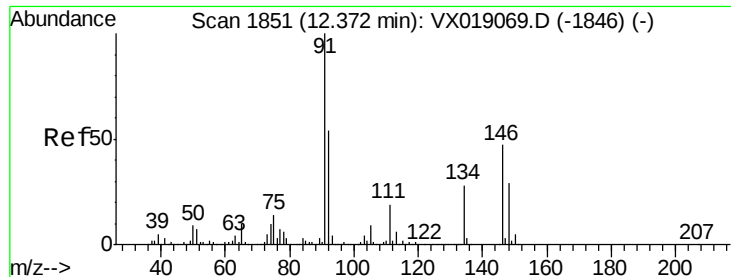
Tot Ion:146 Resp: 993769  
 Ion Ratio Lower Upper  
 146 100  
 111 39.3 20.0 59.9  
 148 64.3 32.2 96.6



#84  
 1,4-Dichlorobenzene  
 Concen: 174.801 ug/l  
 RT: 12.08 min Scan# 1803  
 Delta R.T. 0.00 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

Tgt Ion:146 Resp: 1012431  
 Ion Ratio Lower Upper  
 146 100  
 111 37.1 18.9 56.7  
 148 64.3 31.6 95.0





#85

n-Butylbenzene

Concen: 175.550 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

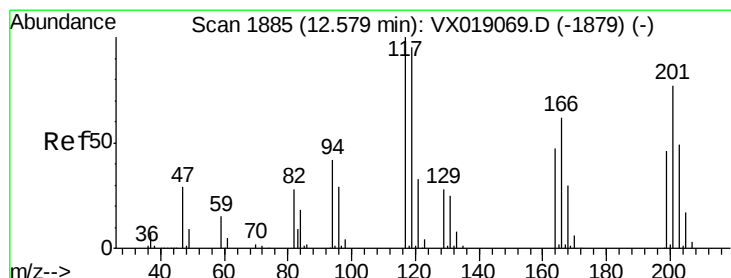
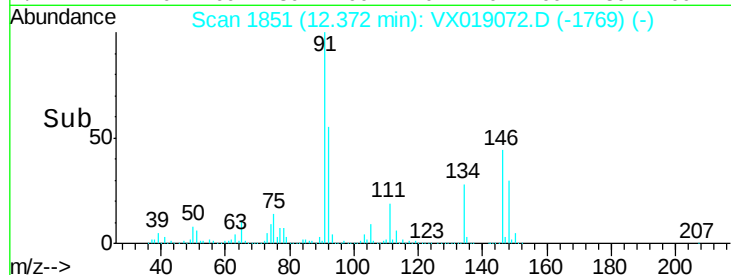
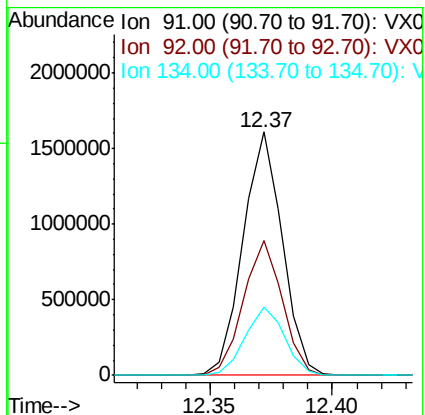
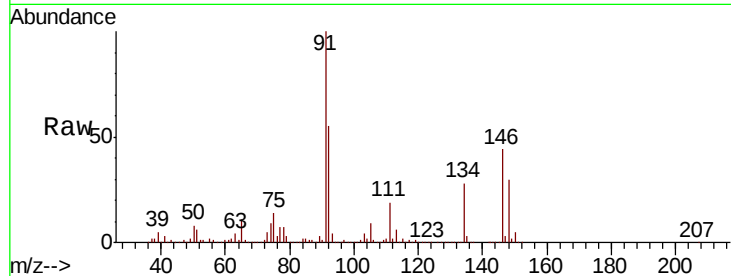
Tot Ion: 91 Resp: 1788721

Ion Ratio Lower Upper

91 100

92 54.8 0.0 107.4

134 28.3 0.0 54.6



#86

Hexachloroethane

Concen: 185.788 ug/l

RT: 12.58 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX019072.D

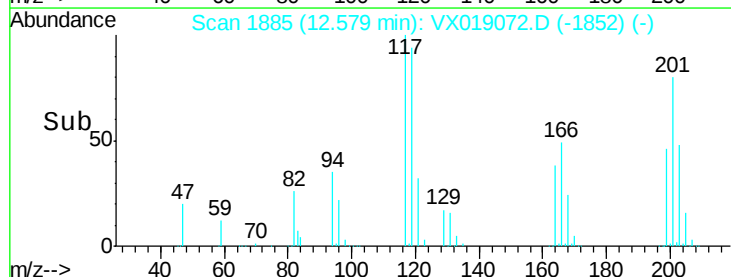
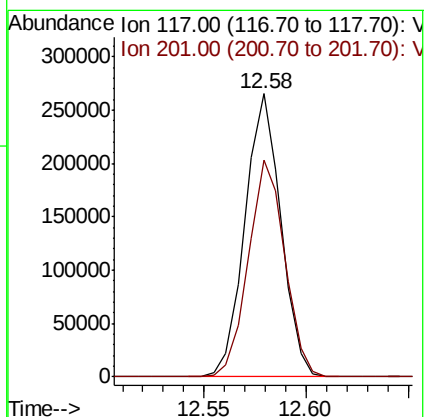
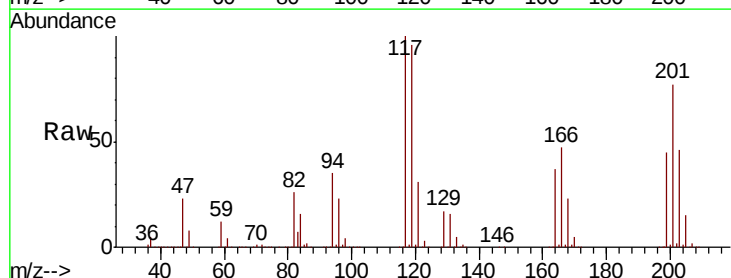
Acq: 23 Oct 2020 11:23

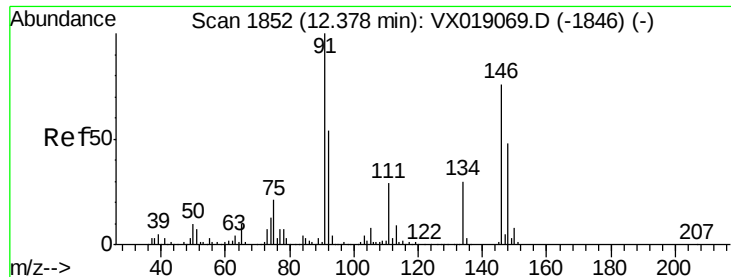
Tgt Ion: 117 Resp: 324732

Ion Ratio Lower Upper

117 100

201 77.7 38.4 115.1





#87

1,2-Dichlorobenzene

Concen: 175.349 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

Instrument :

MSVOA\_V

ClientSampleId :

VSTDIC150

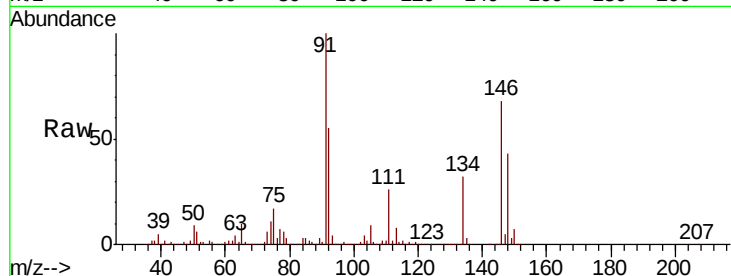
Tot Ion:146 Resp: 957602

Ion Ratio Lower Upper

146 100

111 40.7 20.3 61.0

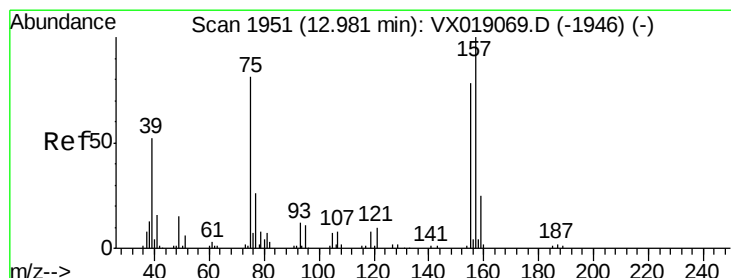
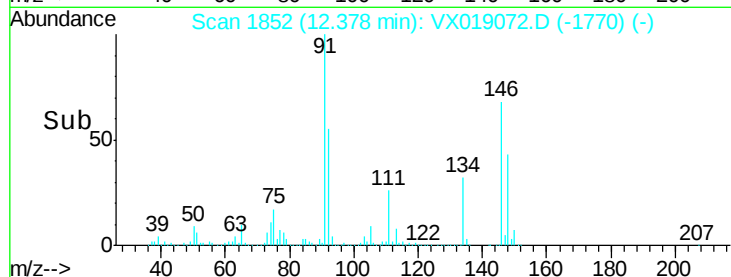
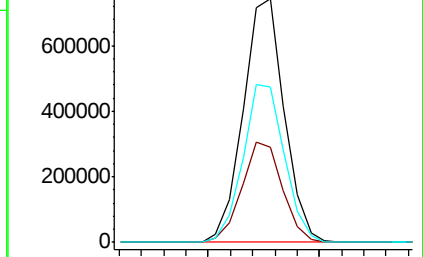
148 65.4 32.1 96.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 177.983 ug/l

RT: 12.98 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VX019072.D

Acq: 23 Oct 2020 11:23

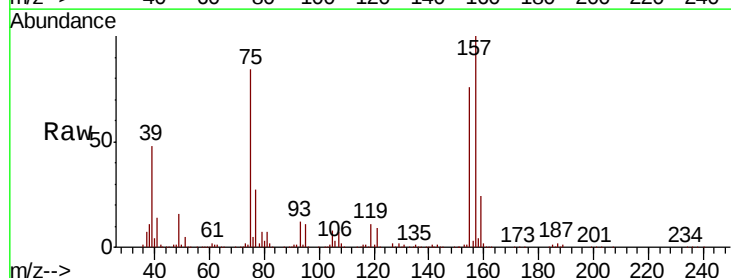
Tgt Ion: 75 Resp: 151872

Ion Ratio Lower Upper

75 100

155 96.2 73.7 110.5

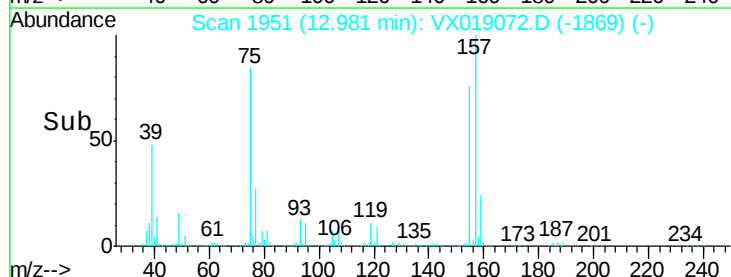
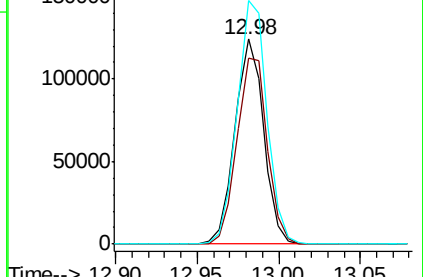
157 123.1 96.5 144.7

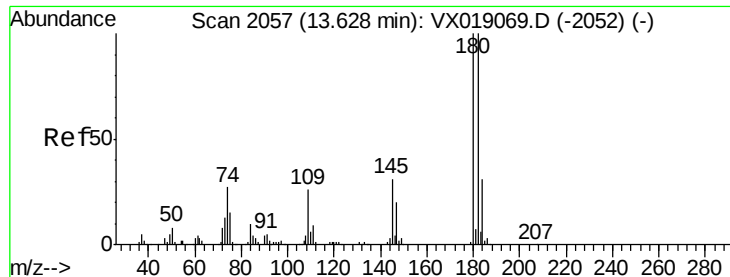


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

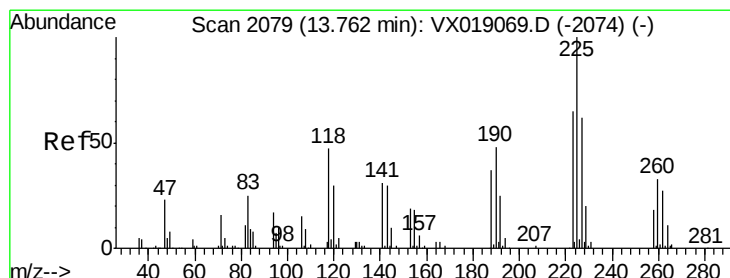
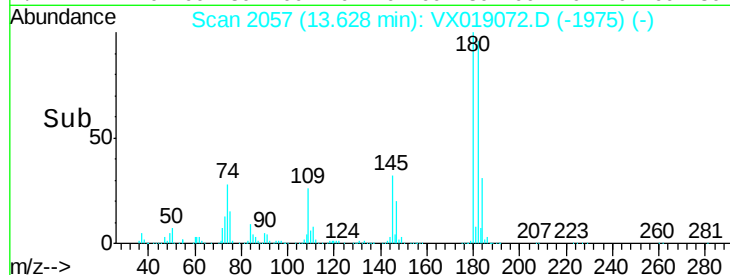
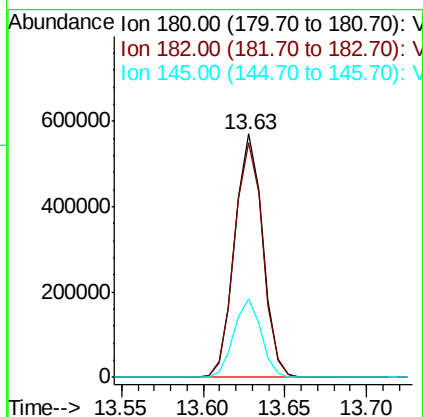
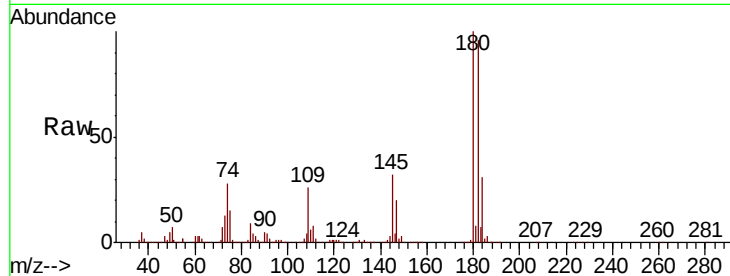




#89  
 1,2,4-Trichlorobenzene  
 Concen: 173.578 ug/l  
 RT: 13.63 min Scan# 2057  
 Delta R.T. 0.00 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

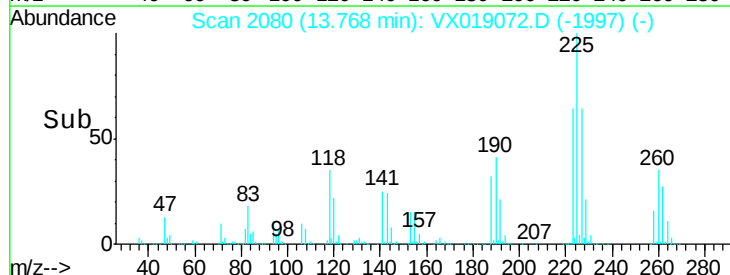
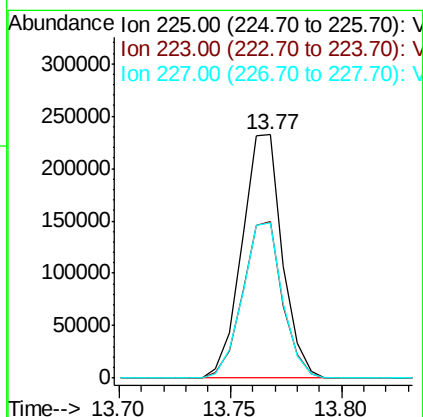
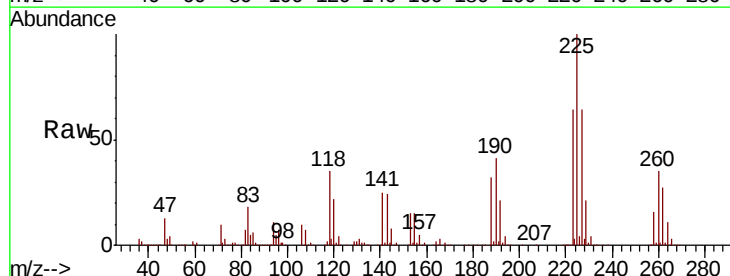
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTDIC150

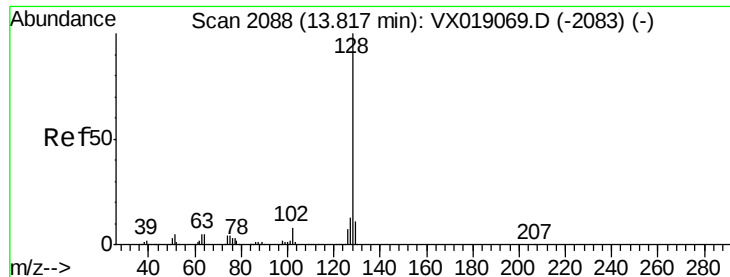
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.3  | 76.5  | 114.7 |
| 145     | 31.3  | 24.2  | 36.4  |



#90  
 Hexachlorobutadiene  
 Concen: 175.522 ug/l  
 RT: 13.77 min Scan# 2080  
 Delta R.T. 0.01 min  
 Lab File: VX019072.D  
 Acq: 23 Oct 2020 11:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.3  | 0.0   | 130.0 |
| 227     | 63.4  | 0.0   | 128.6 |

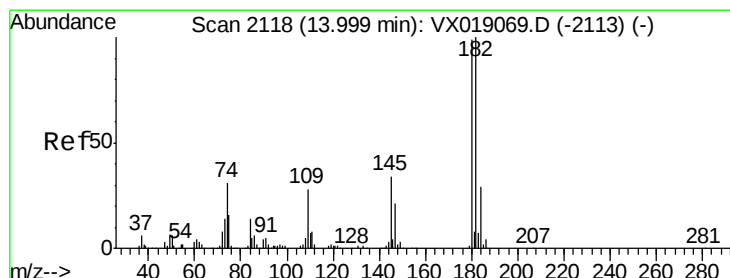
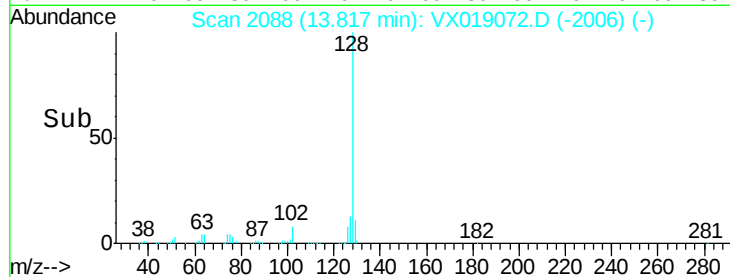
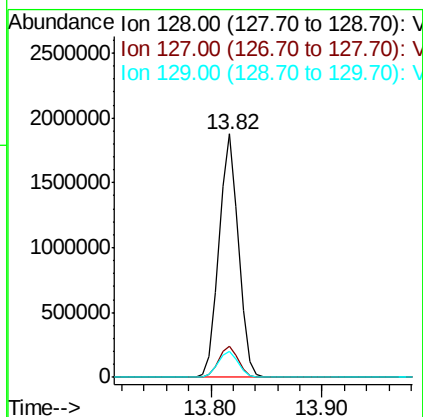
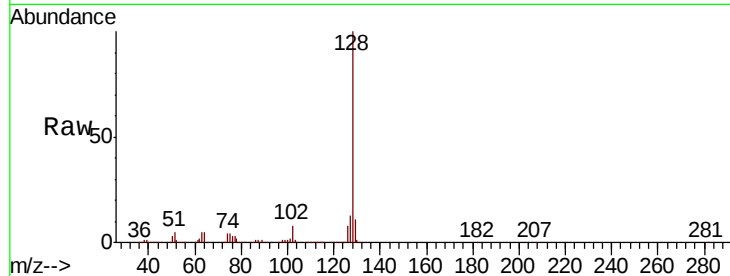




#91  
Naphthalene  
Concen: 175.770 ug/l  
RT: 13.82 min Scan# 2088  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTDIC150

Tot Ion:128 Resp: 2261340  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.6 16.0  
129 11.0 8.9 13.3



#92  
1,2,3-Trichlorobenzene  
Concen: 173.072 ug/l  
RT: 14.00 min Scan# 2118  
Delta R.T. 0.00 min  
Lab File: VX019072.D  
Acq: 23 Oct 2020 11:23

Tgt Ion:180 Resp: 654298  
Ion Ratio Lower Upper  
180 100  
182 99.0 0.0 192.4  
145 32.6 0.0 64.6

