

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX070920\  
 Data File : VX017302.D  
 Acq On : 09 Jul 2020 12:00  
 Operator : JC/SP  
 Sample : VSTDIC150  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

Quant Time: Jul 09 12:22:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\624X070920W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jul 09 11:39:05 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 4.98  | 128  | 50062    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.83  | 114  | 259738   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 261006   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.03   | 65    | 110218   | 28.75    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 95.83%  |
| 60) 4-Bromofluorobenzene  | 11.12  | 95    | 134719   | 30.69    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 102.30% |
| 63) Toluene-d8            | 8.70   | 98    | 315548   | 27.50    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 91.67%  |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 266342  | 109.493 | ug/l | 98     |
| 3) Chloromethane              | 1.31 | 50  | 357372  | 115.760 | ug/l | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 342692  | 108.656 | ug/l | 97     |
| 5) Bromomethane               | 1.62 | 94  | 206741  | 91.956  | ug/l | 97     |
| 6) Chloroethane               | 1.70 | 64  | 230792  | 112.468 | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 553049  | 105.035 | ug/l | 96     |
| 8) Diethyl Ether              | 2.17 | 74  | 228684  | 120.707 | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 291479  | 104.113 | ug/l | 99     |
| 10) 1,1-Dichloroethene        | 2.35 | 96  | 329649  | 120.473 | ug/l | 95     |
| 11) Methyl Iodide             | 2.49 | 142 | 503005  | 138.927 | ug/l | 99     |
| 12) Methyl Acetate            | 2.75 | 43  | 503796  | 142.850 | ug/l | 99     |
| 13) Acrolein                  | 2.28 | 56  | 349214  | 640.027 | ug/l | 97     |
| 14) Acrylonitrile             | 3.12 | 53  | 1147153 | 696.166 | ug/l | 100    |
| 15) Acetone                   | 2.42 | 58  | 293098  | 692.978 | ug/l | 98     |
| 16) Carbon Disulfide          | 2.54 | 76  | 906765  | 106.590 | ug/l | 99     |
| 17) Allyl chloride            | 2.70 | 41  | 650263  | 127.985 | ug/l | 94     |
| 18) Methylene Chloride        | 2.83 | 84  | 414763  | 125.042 | ug/l | 99     |
| 19) trans-1,2-Dichloroethene  | 3.14 | 96  | 387664  | 123.080 | ug/l | 96     |
| 20) Diisopropyl ether         | 3.82 | 45  | 1278379 | 124.228 | ug/l | 97     |
| 21) 1,1-Dichloroethane        | 3.67 | 63  | 711412  | 125.517 | ug/l | 96     |
| 22) cis-1,2-Dichloroethene    | 4.56 | 96  | 463530  | 132.874 | ug/l | 98     |
| 23) tert-Butyl Alcohol        | 3.03 | 59  | 491478  | 682.682 | ug/l | # 99   |
| 24) Methyl tert-Butyl Ether   | 3.17 | 73  | 1360821 | 137.753 | ug/l | 100    |
| 25) Chloroform                | 5.18 | 83  | 766788  | 132.229 | ug/l | 94     |
| 26) Cyclohexane               | 5.54 | 56  | 493599  | 101.070 | ug/l | # 99   |
| 29) 1,1-Dichloropropene       | 5.77 | 75  | 513118  | 125.154 | ug/l | 99     |
| 30) 2-Butanone                | 4.64 | 43  | 1565732 | 731.513 | ug/l | 99     |
| 31) 2,2-Dichloropropane       | 4.55 | 77  | 631475  | 133.048 | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 673326  | 134.245 | ug/l | 97     |
| 33) Carbon Tetrachloride      | 5.76 | 117 | 595212  | 132.924 | ug/l | 97     |
| 34) Benzene                   | 6.11 | 78  | 1594403 | 133.777 | ug/l | 98     |
| 35) Methacrylonitrile         | 5.01 | 41  | 353336  | 149.682 | ug/l | 98     |
| 36) 1,2-Dichloroethane        | 6.17 | 62  | 642699  | 139.941 | ug/l | 99     |
| 37) Trichloroethene           | 7.19 | 130 | 467037  | 141.305 | ug/l | 99     |
| 38) Methylcyclohexane         | 7.44 | 83  | 490087  | 105.774 | ug/l | 98     |
| 39) 1,2-Dichloropropane       | 7.49 | 63  | 427550  | 137.416 | ug/l | 97     |
| 40) Dibromomethane            | 7.63 | 93  | 308606  | 143.384 | ug/l | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX070920\  
 Data File : VX017302.D  
 Acq On : 09 Jul 2020 12:00  
 Operator : JC/SP  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

Quant Time: Jul 09 12:22:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\624X070920W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jul 09 11:39:05 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 41) Bromodichloromethane       | 7.88  | 83   | 653025   | 146.449  | ug/l  | 99       |
| 42) Vinyl Acetate              | 3.79  | 43   | 5852231  | 684.055  | ug/l  | 100      |
| 43) Ethyl Acetate              | 4.80  | 43   | 609923   | 138.358  | ug/l  | 100      |
| 44) Isopropyl Acetate          | 6.42  | 43   | 1044716  | 143.923  | ug/l  | 99       |
| 45) 1,4-Dioxane                | 7.72  | 88   | 204857   | 2861.394 | ug/l  | 95       |
| 46) Methyl methacrylate        | 7.74  | 41   | 523153   | 154.599  | ug/l  | 98       |
| 47) n-amyl Acetate             | 10.88 | 43   | 963999   | 150.370  | ug/l  | 97       |
| 48) t-1,3-Dichloropropene      | 9.02  | 75   | 750806   | 151.958  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene    | 8.42  | 75   | 762279   | 147.061  | ug/l  | 98       |
| 50) 1,1,2-Trichloroethane      | 9.20  | 97   | 457210   | 150.141  | ug/l  | 99       |
| 51) Ethyl methacrylate         | 9.16  | 69   | 742258   | 161.340  | ug/l  | 97       |
| 52) 1,3-Dichloropropane        | 9.35  | 76   | 762374   | 148.247  | ug/l  | 100      |
| 53) Dibromochloromethane       | 9.57  | 129  | 584186   | 165.343  | ug/l  | 98       |
| 54) 1,2-Dibromoethane          | 9.65  | 107  | 502331   | 155.514  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether  | 8.29  | 63   | 1874720  | 773.533  | ug/l  | 99       |
| 56) Bromoform                  | 10.84 | 173  | 460908   | 180.909  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone       | 8.62  | 43   | 3226625  | 691.806  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 2450594  | 702.553  | ug/l  | 98       |
| 61) Tetrachloroethene          | 9.32  | 164  | 433819   | 129.831  | ug/l  | 98       |
| 62) Toluene                    | 8.77  | 91   | 1767231  | 127.456  | ug/l  | 100      |
| 64) Chlorobenzene              | 10.12 | 112  | 1212099  | 138.114  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 508577   | 152.603  | ug/l  | 98       |
| 66) Ethyl Benzene              | 10.24 | 91   | 2075680  | 134.908  | ug/l  | 100      |
| 67) m/p-Xylenes                | 10.34 | 106  | 1597743  | 273.090  | ug/l  | 98       |
| 68) o-Xylene                   | 10.68 | 106  | 786125   | 141.271  | ug/l  | 96       |
| 69) Styrene                    | 10.70 | 104  | 1414786  | 146.726  | ug/l  | 98       |
| 70) Isopropylbenzene           | 11.00 | 105  | 2044333  | 134.018  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 664935   | 141.432  | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane     | 11.28 | 75   | 850791   | 188.260  | ug/l  | 92       |
| 73) Bromobenzene               | 11.24 | 156  | 601362   | 154.033  | ug/l  | 98       |
| 74) n-propylbenzene            | 11.35 | 91   | 2362764  | 131.287  | ug/l  | 99       |
| 75) 2-Chlorotoluene            | 11.40 | 91   | 1456606  | 137.124  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 1789004  | 139.209  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene    | 11.06 | 75   | 267142   | 146.920  | ug/l  | 89       |
| 78) 4-Chlorotoluene            | 11.49 | 91   | 1734883  | 138.206  | ug/l  | 100      |
| 79) tert-butylbenzene          | 11.76 | 119  | 1725130  | 140.378  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 1791981  | 138.984  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 11.93 | 105  | 1936549  | 130.901  | ug/l  | 100      |
| 82) p-Isopropyltoluene         | 12.05 | 119  | 1837712  | 136.566  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 12.01 | 146  | 1047129  | 149.293  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene        | 12.08 | 146  | 1038432  | 147.404  | ug/l  | 99       |
| 85) n-Butylbenzene             | 12.37 | 91   | 1538542  | 125.322  | ug/l  | 99       |
| 86) Hexachloroethane           | 12.58 | 117  | 359596   | 137.383  | ug/l  | 99       |
| 87) 1,2-Dichlorobenzene        | 12.38 | 146  | 1009011  | 153.325  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 170170   | 158.084  | ug/l  | 96       |
| 89) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 696755   | 156.587  | ug/l  | 99       |
| 90) Hexachlorobutadiene        | 13.77 | 225  | 242092   | 140.305  | ug/l  | 98       |
| 91) Naphthalene                | 13.82 | 128  | 2285891  | 159.493  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene     | 14.00 | 180  | 690257   | 158.068  | ug/l  | 98       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX070920\  
Data File : VX017302.D  
Acq On : 09 Jul 2020 12:00  
Operator : JC/SP  
Sample : VSTDICC150  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

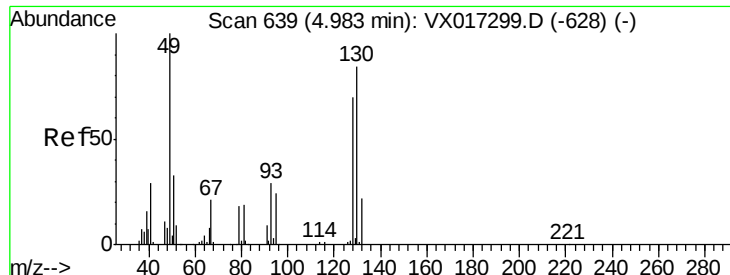
Quant Time: Jul 09 12:22:48 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\624X070920W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Jul 09 11:39:05 2020  
Response via : Initial Calibration

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

-----

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

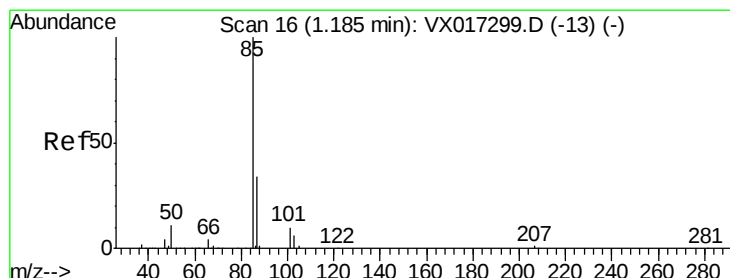
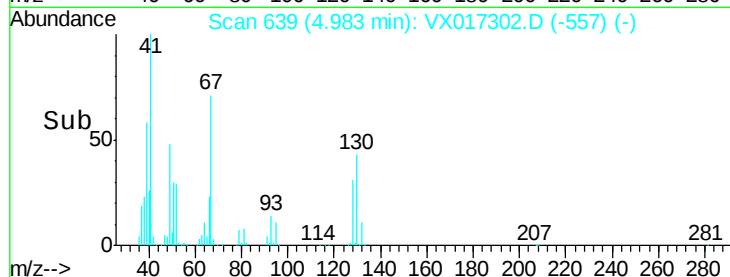
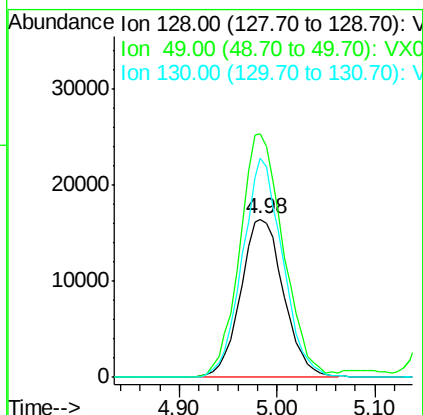
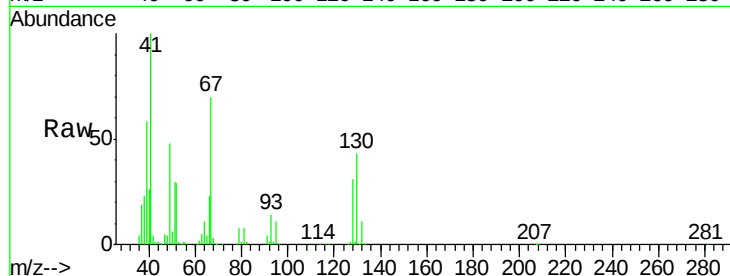




#1  
 Bromochloromethane  
 Concen: 30.000 ug/l  
 RT: 4.98 min Scan# 639  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

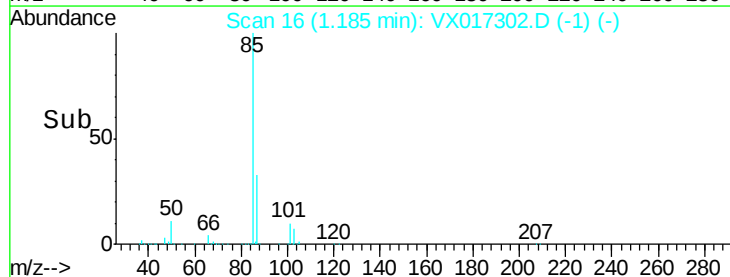
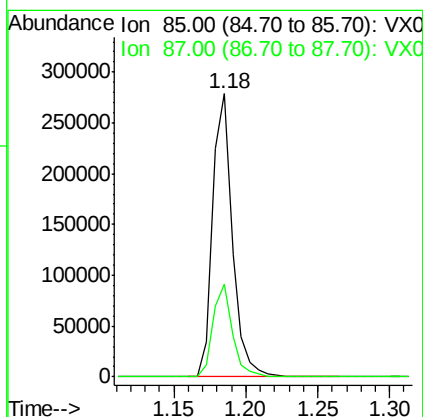
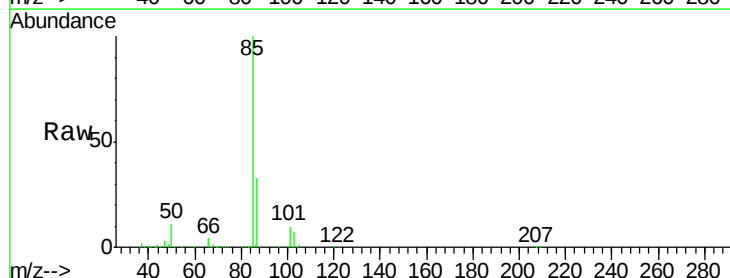
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

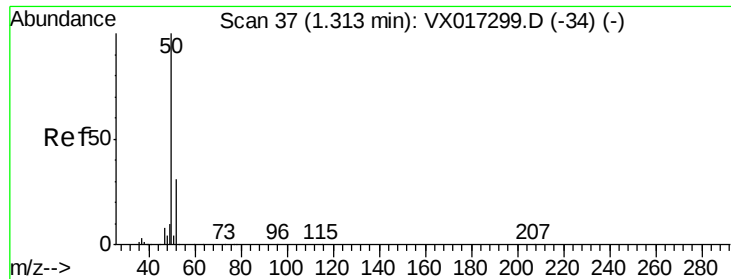
Tgt Ion:128 Resp: 50062  
 Ion Ratio Lower Upper  
 128 100  
 49 156.6 0.0 358.8  
 130 130.7 0.0 323.8



#2  
 Dichlorodifluoromethane  
 Concen: 109.493 ug/l  
 RT: 1.18 min Scan# 16  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Tgt Ion: 85 Resp: 266342  
 Ion Ratio Lower Upper  
 85 100  
 87 32.6 16.9 50.6





#3

Chloromethane

Concen: 115.760 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

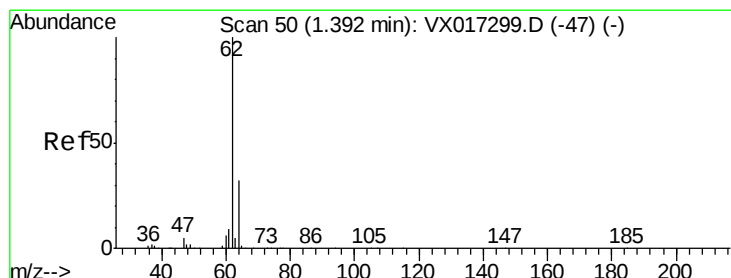
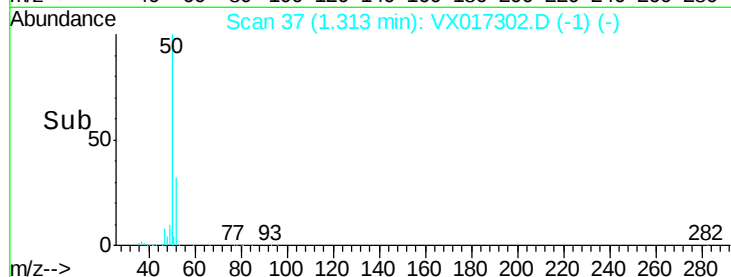
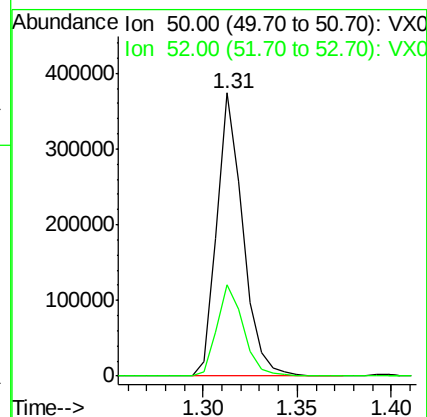
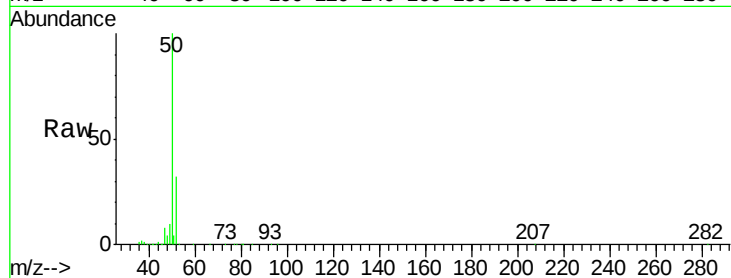
VSTDIC150

Tgt Ion: 50 Resp: 357372

Ion Ratio Lower Upper

50 100

52 32.1 24.8 37.2



#4

Vinyl Chloride

Concen: 108.656 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017302.D

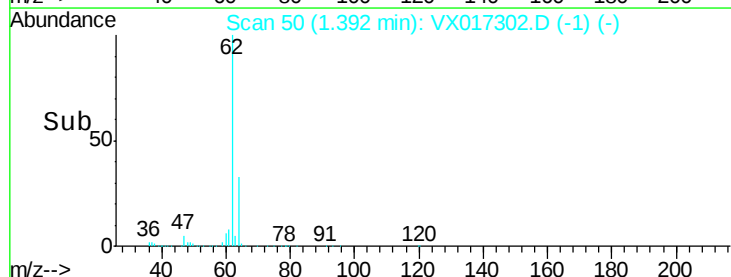
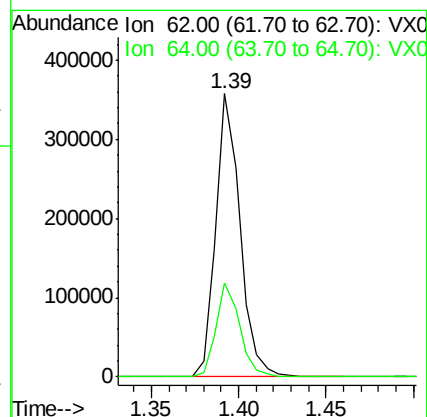
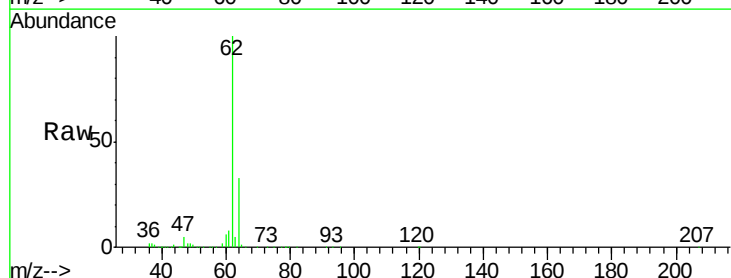
Acq: 09 Jul 2020 12:00

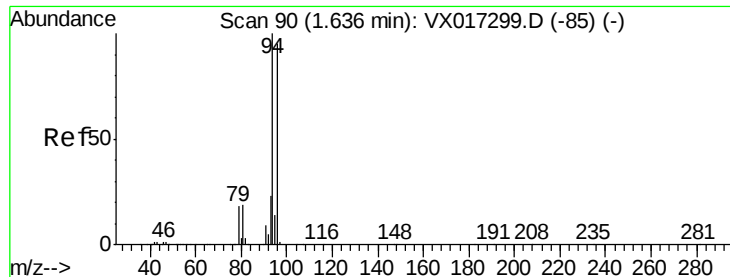
Tgt Ion: 62 Resp: 342692

Ion Ratio Lower Upper

62 100

64 33.0 25.3 37.9





#5

Bromomethane

Concen: 91.956 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

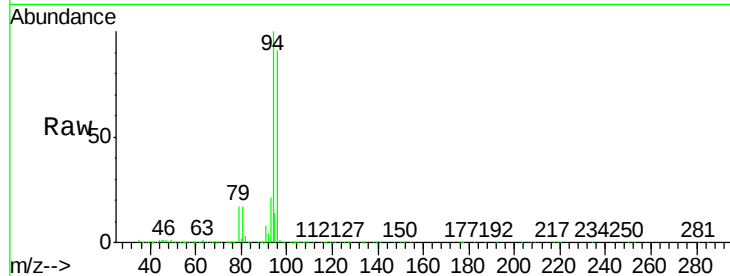
VSTDIC150

Tgt Ion: 94 Resp: 206741

Ion Ratio Lower Upper

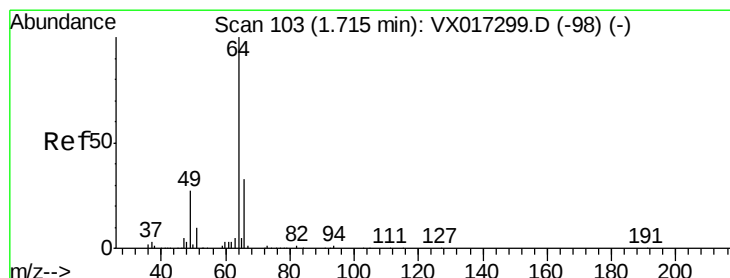
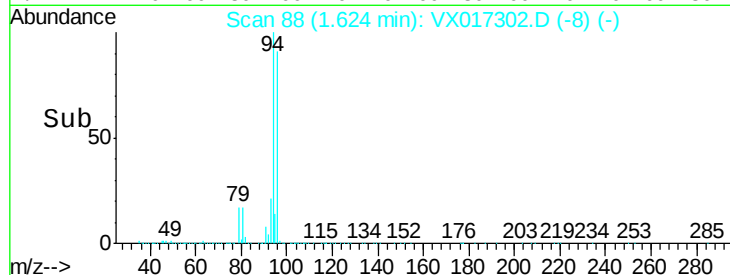
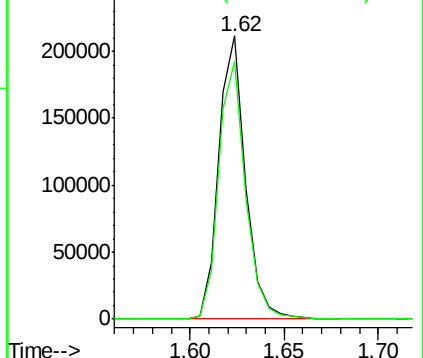
94 100

96 91.2 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#6

Chloroethane

Concen: 112.468 ug/l

RT: 1.70 min Scan# 100

Delta R.T. -0.02 min

Lab File: VX017302.D

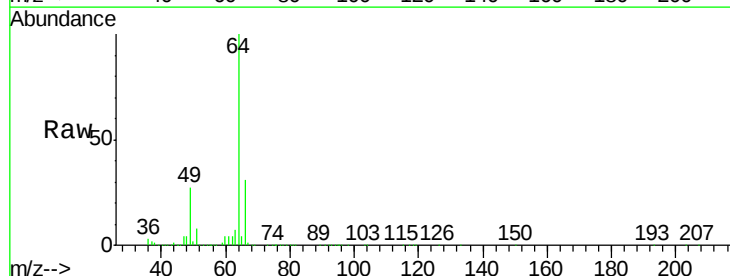
Acq: 09 Jul 2020 12:00

Tgt Ion: 64 Resp: 230792

Ion Ratio Lower Upper

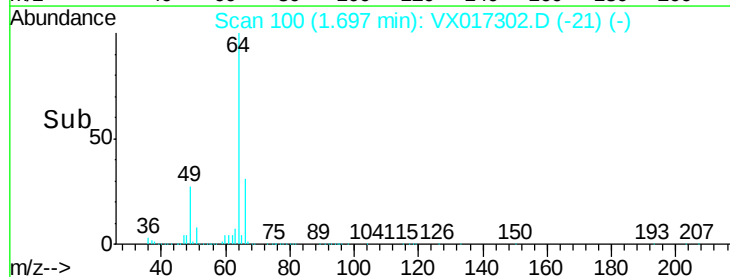
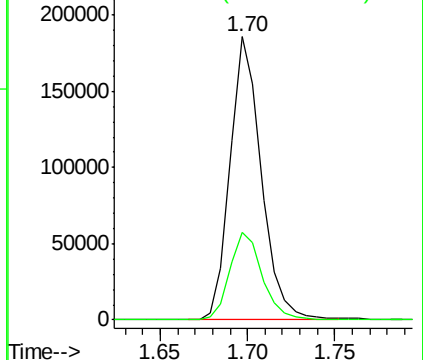
64 100

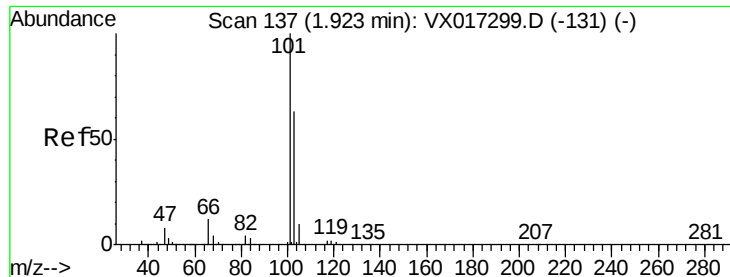
66 30.9 26.1 39.1



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



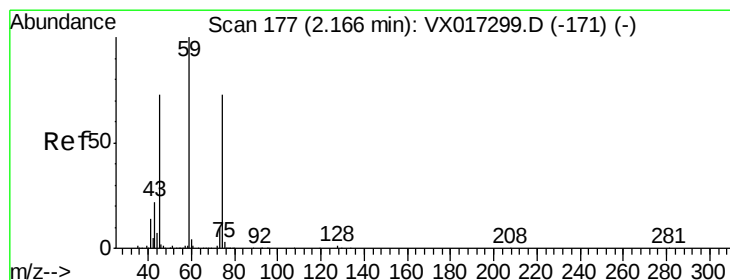
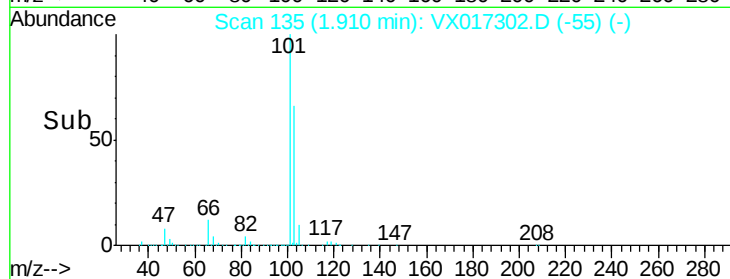
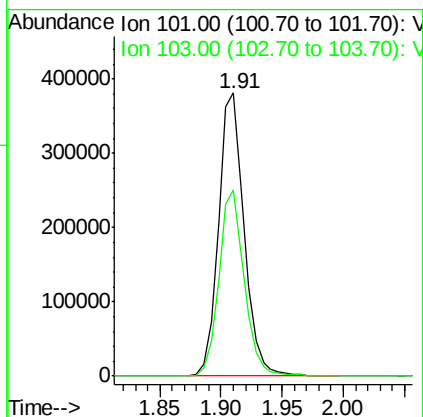
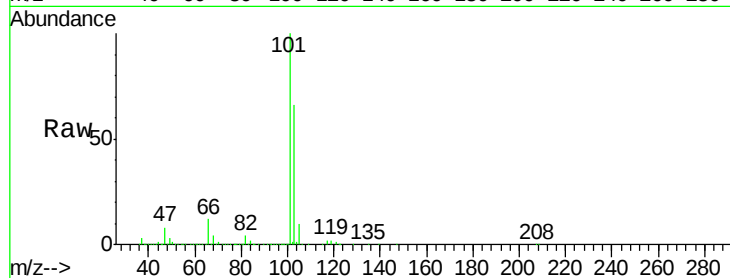


#7

Trichlorofluoromethane  
 Concen: 105.035 ug/l  
 RT: 1.91 min Scan# 135  
 Delta R.T. -0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

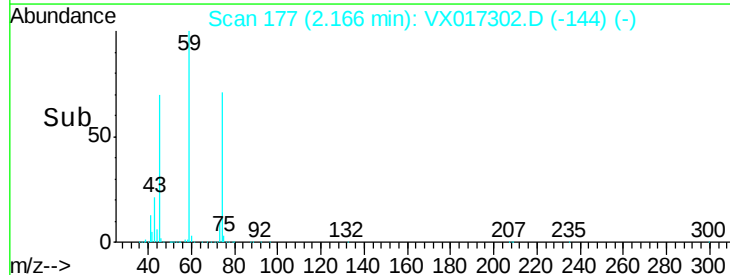
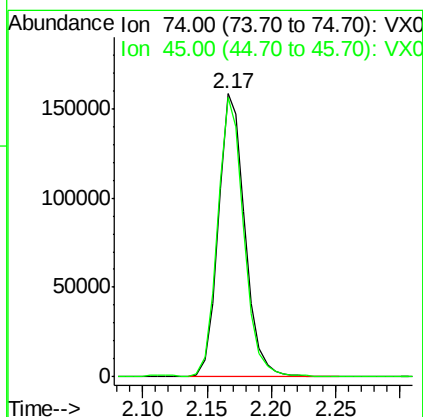
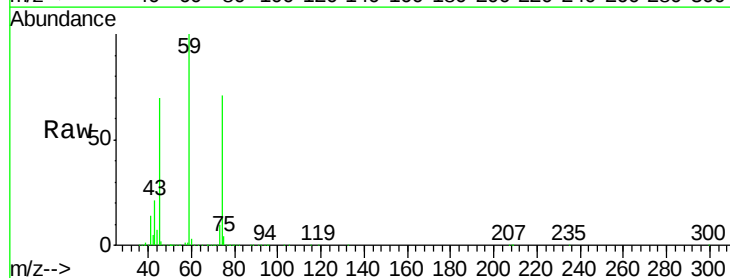
Tgt Ion: 101 Resp: 553049  
 Ion Ratio Lower Upper  
 101 100  
 103 65.6 50.1 75.1

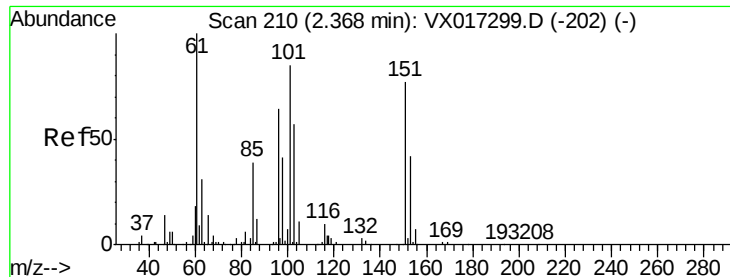


#8

Diethyl Ether  
 Concen: 120.707 ug/l  
 RT: 2.17 min Scan# 177  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Tgt Ion: 74 Resp: 228684  
 Ion Ratio Lower Upper  
 74 100  
 45 97.5 18.9 170.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 104.113 ug/l

RT: 2.36 min Scan# 209

Delta R.T. -0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

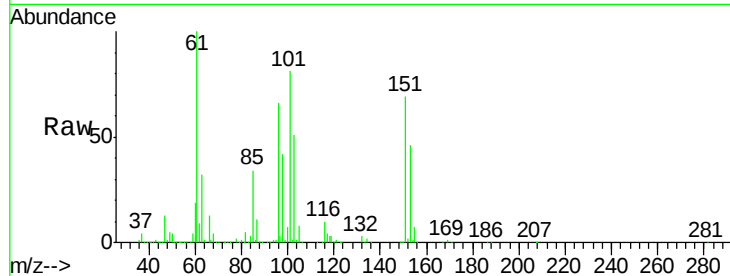
Tgt Ion:101 Resp: 291479

Ion Ratio Lower Upper

101 100

85 42.9 0.0 87.8

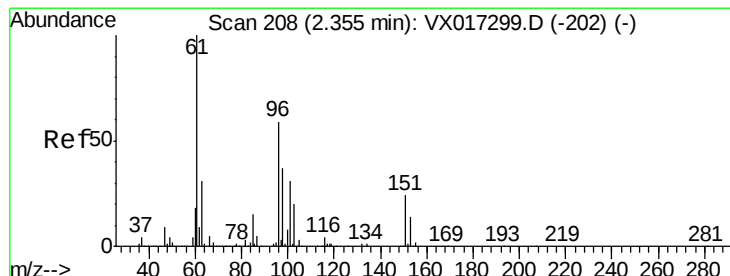
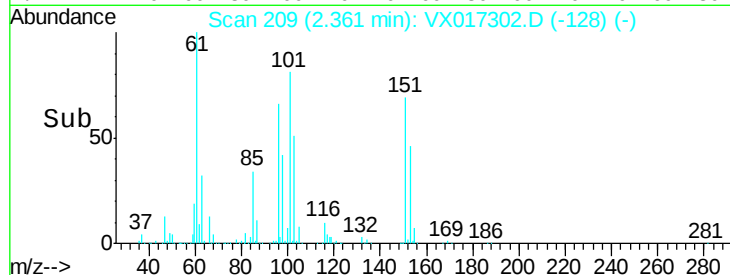
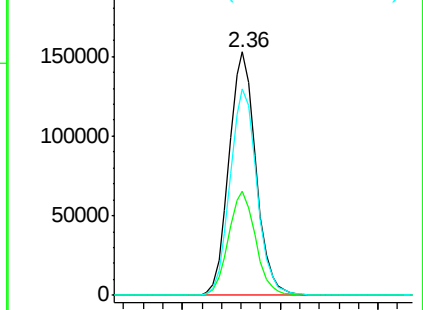
151 84.9 0.0 170.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 120.473 ug/l

RT: 2.35 min Scan# 207

Delta R.T. -0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

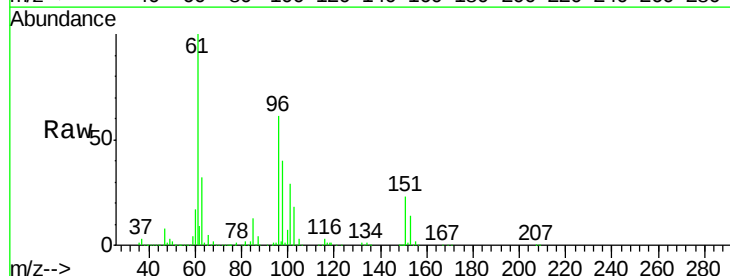
Tgt Ion: 96 Resp: 329649

Ion Ratio Lower Upper

96 100

61 163.1 137.0 205.4

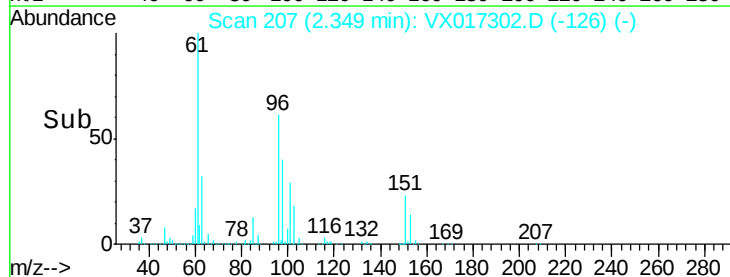
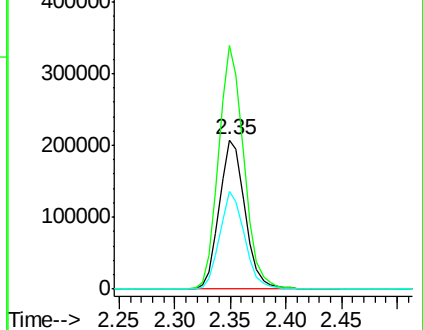
98 65.4 51.1 76.7

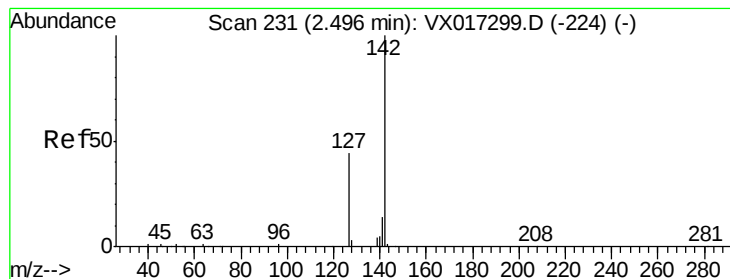


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#11

Methyl Iodide

Concen: 138.927 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

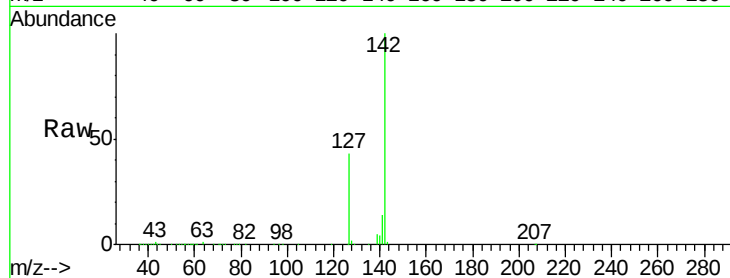
Tgt Ion:142 Resp: 503005

Ion Ratio Lower Upper

142 100

127 43.0 21.9 65.7

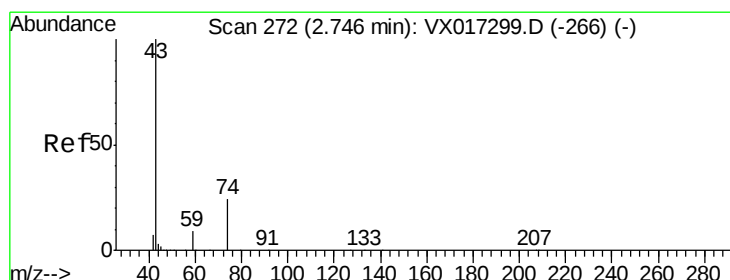
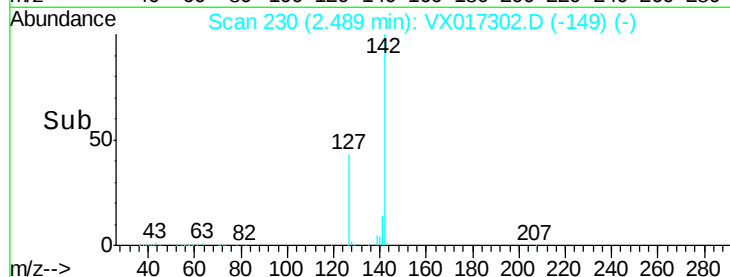
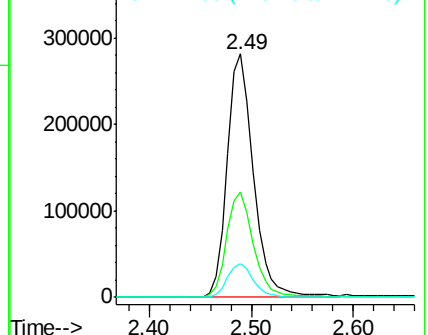
141 14.0 7.0 21.1



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: 142.850 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX017302.D

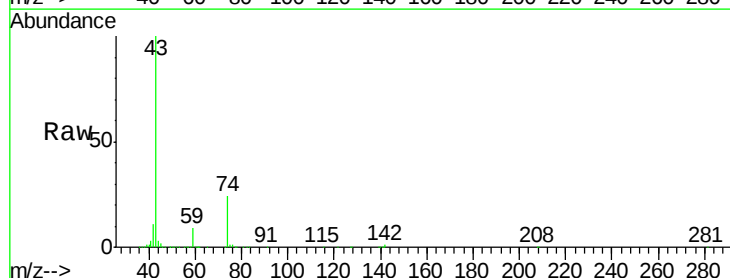
Acq: 09 Jul 2020 12:00

Tgt Ion: 43 Resp: 503796

Ion Ratio Lower Upper

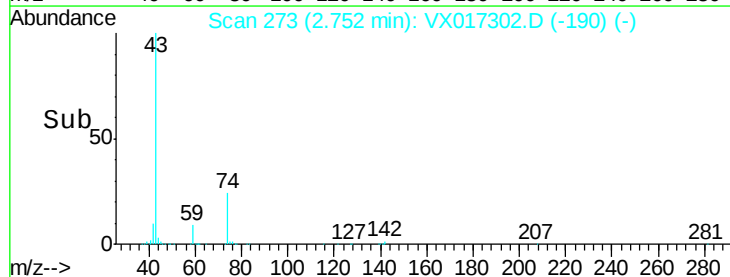
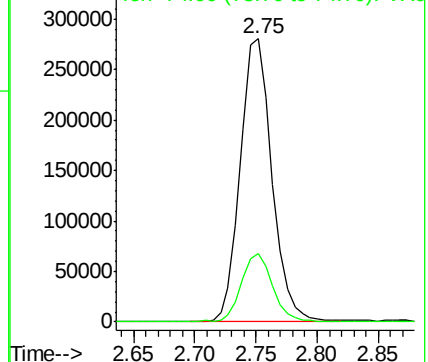
43 100

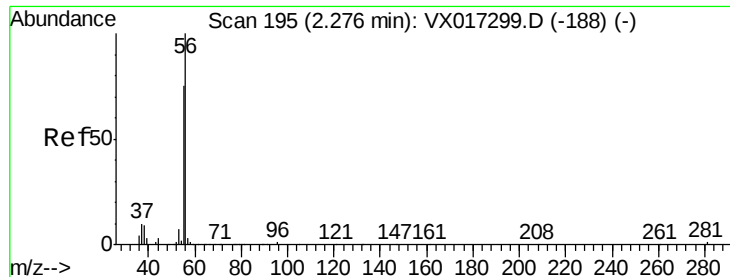
74 24.2 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#13

Acrolein

Concen: 640.027 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

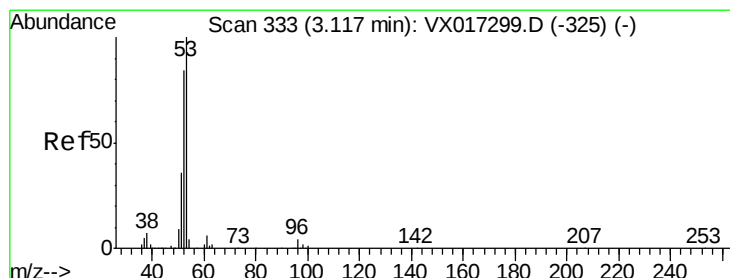
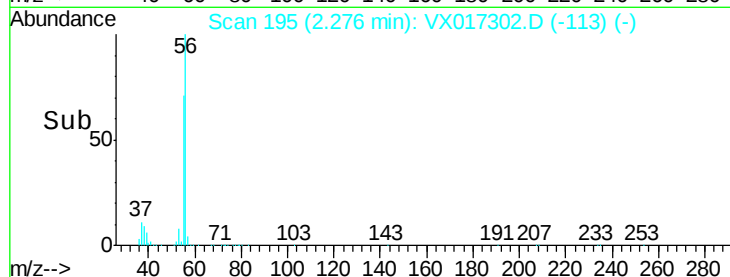
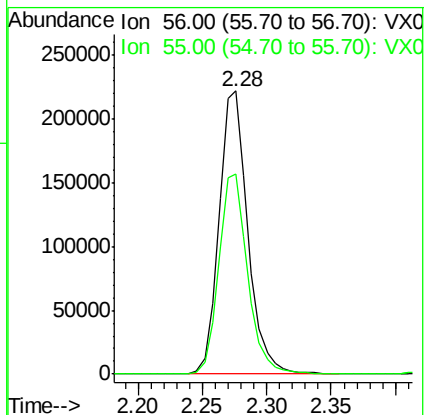
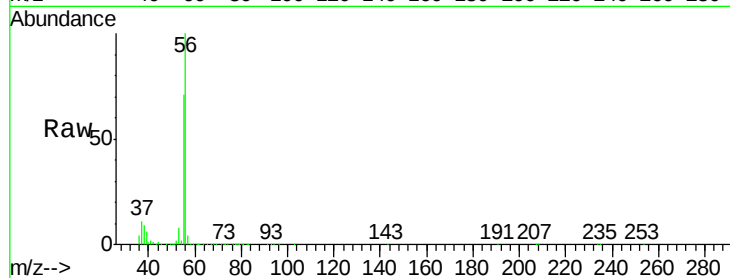
VSTDIC150

Tgt Ion: 56 Resp: 349214

Ion Ratio Lower Upper

56 100

55 70.8 58.5 87.7



#14

Acrylonitrile

Concen: 696.166 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

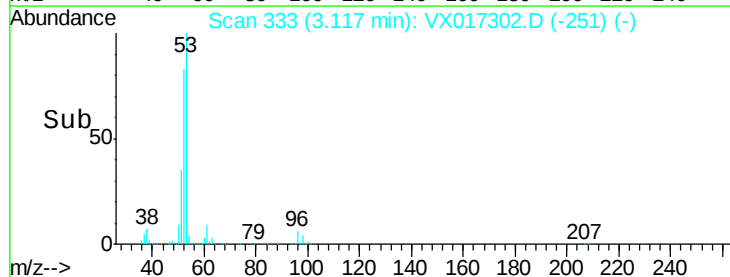
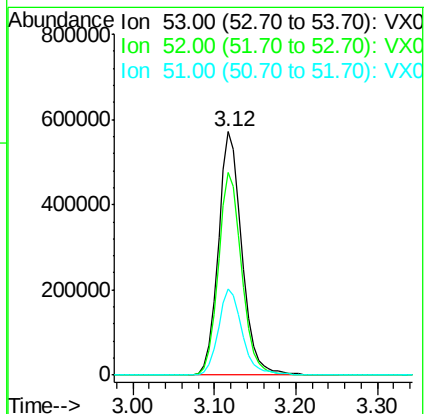
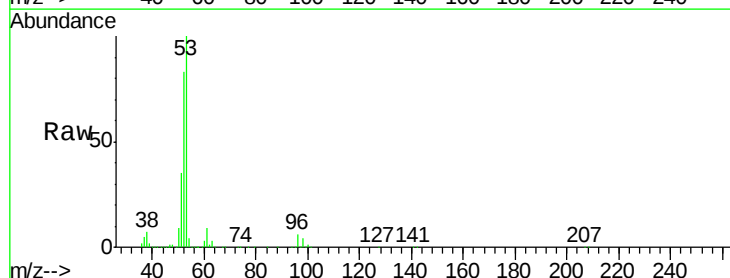
Tgt Ion: 53 Resp: 1147153

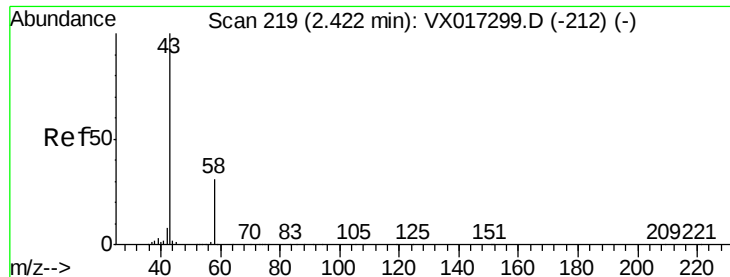
Ion Ratio Lower Upper

53 100

52 82.6 41.3 123.9

51 35.8 18.1 54.1

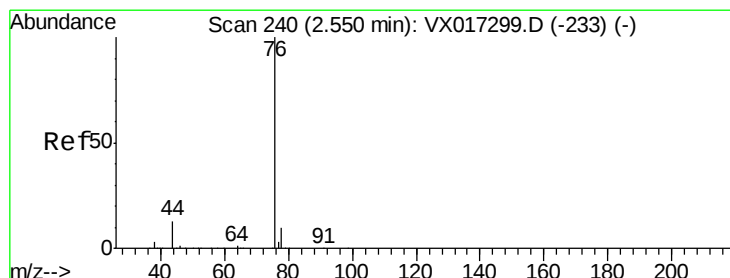
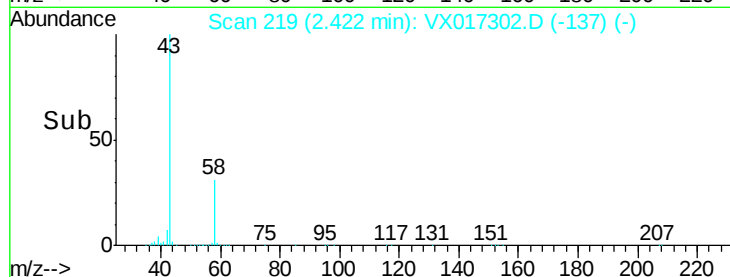
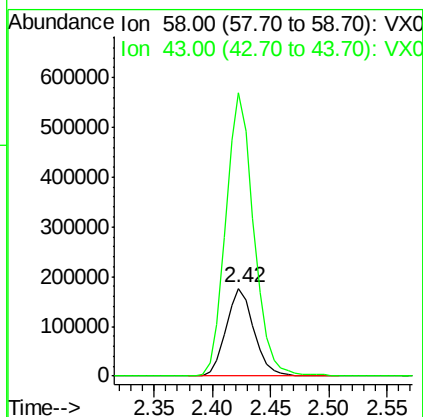
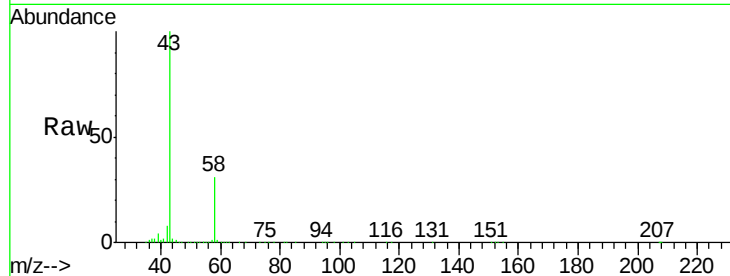




#15  
Acetone  
Concen: 692.978 ug/l  
RT: 2.42 min Scan# 219  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

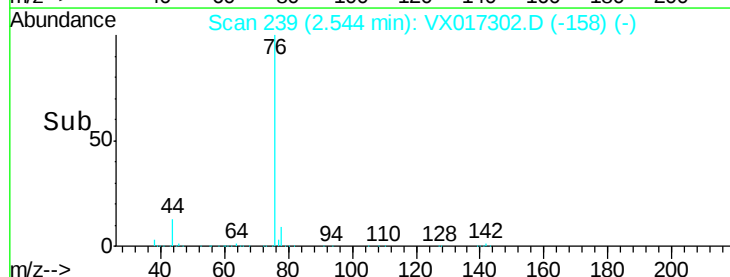
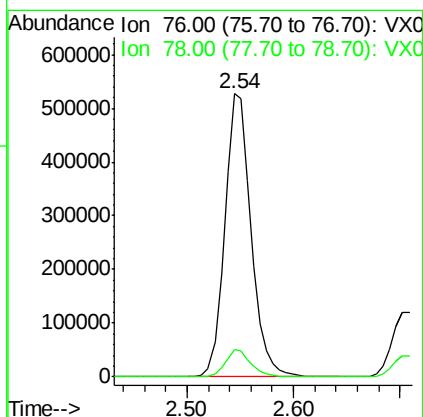
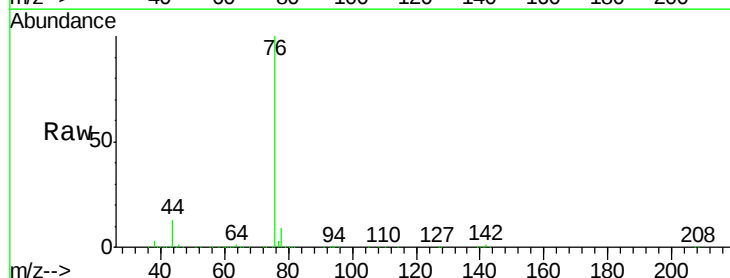
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

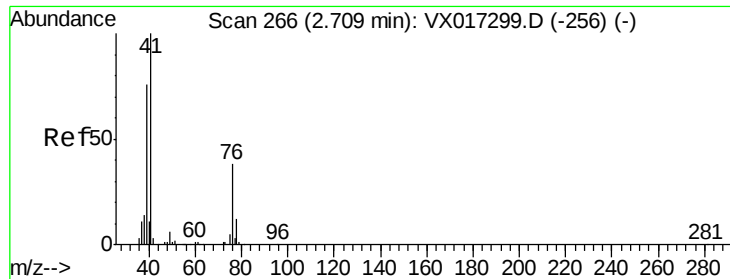
Tgt Ion: 58 Resp: 293098  
Ion Ratio Lower Upper  
58 100  
43 322.1 255.0 382.4



#16  
Carbon Disulfide  
Concen: 106.590 ug/l  
RT: 2.54 min Scan# 239  
Delta R.T. -0.01 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Tgt Ion: 76 Resp: 906765  
Ion Ratio Lower Upper  
76 100  
78 9.5 7.9 11.9

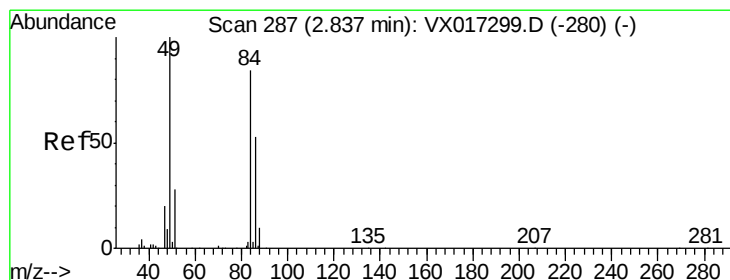
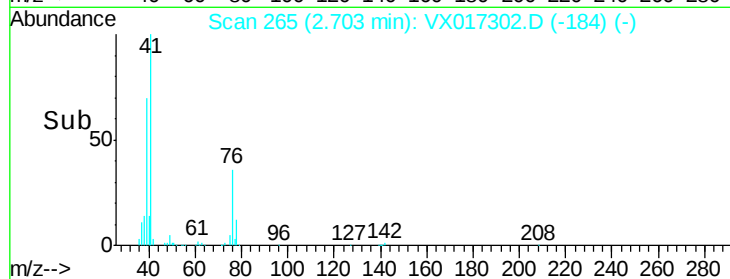
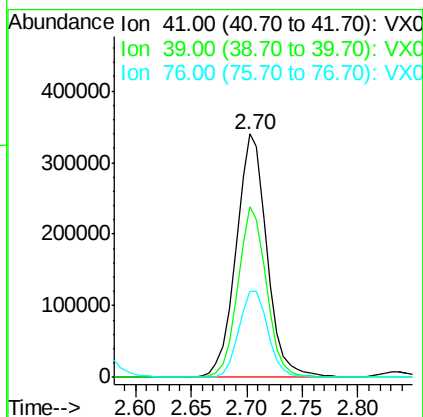
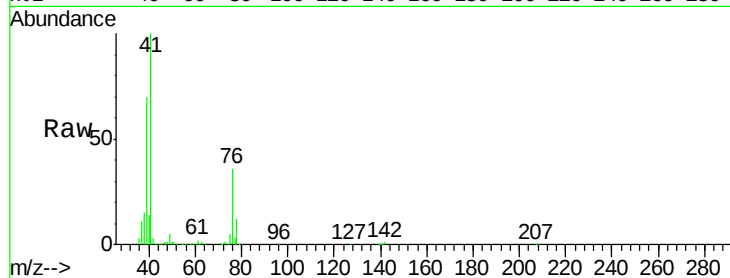




#17  
 Allyl chloride  
 Concen: 127.985 ug/l  
 RT: 2.70 min Scan# 265  
 Delta R.T. -0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

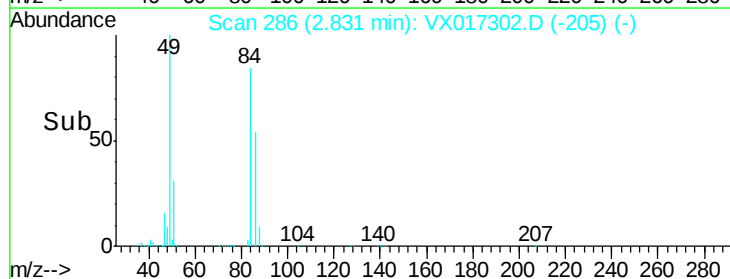
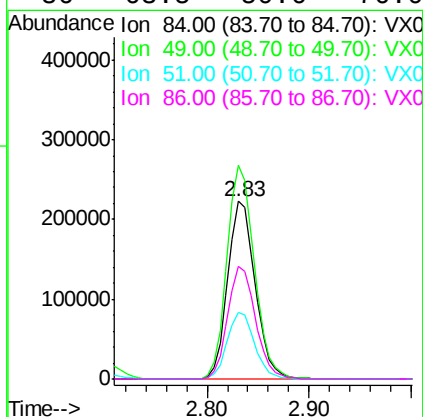
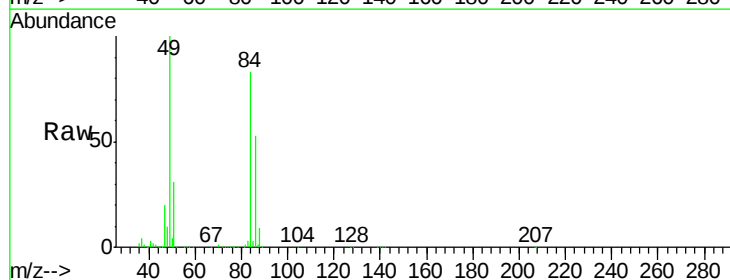
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

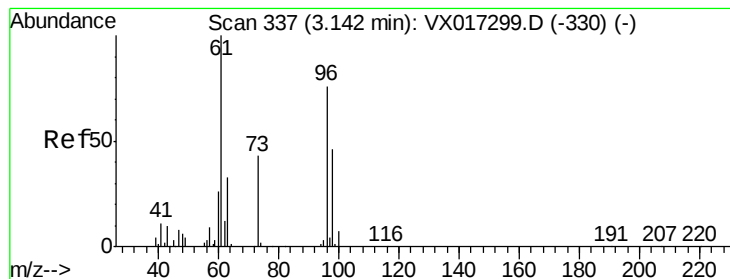
Tgt Ion: 41 Resp: 650263  
 Ion Ratio Lower Upper  
 41 100  
 39 70.3 38.1 114.5  
 76 35.4 18.8 56.4



#18  
 Methylene Chloride  
 Concen: 125.042 ug/l  
 RT: 2.83 min Scan# 286  
 Delta R.T. -0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Tgt Ion: 84 Resp: 414763  
 Ion Ratio Lower Upper  
 84 100  
 49 120.2 95.7 143.5  
 51 37.4 27.2 40.8  
 86 63.5 50.6 76.0





#19

trans-1,2-Dichloroethene

Concen: 123.080 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

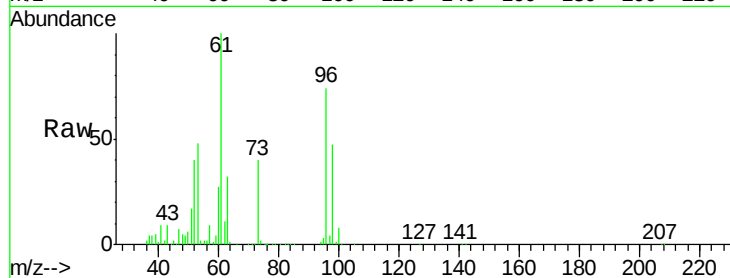
Tgt Ion: 96 Resp: 387664

Ion Ratio Lower Upper

96 100

61 136.1 105.0 157.6

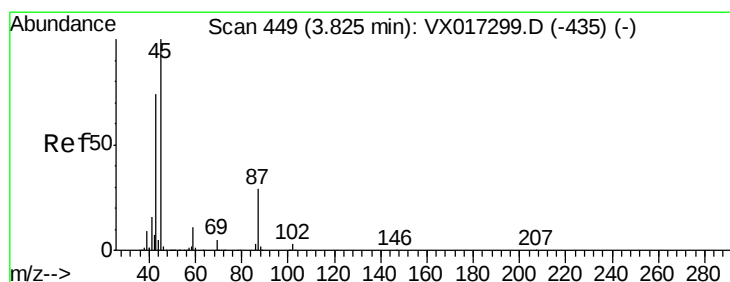
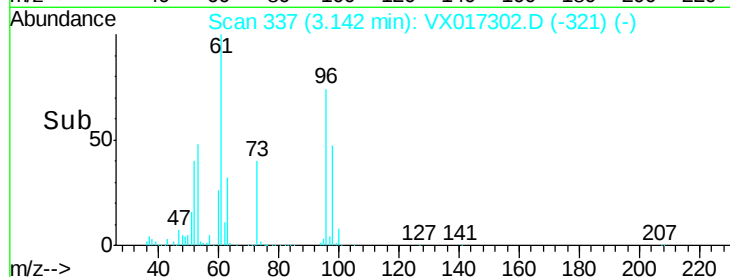
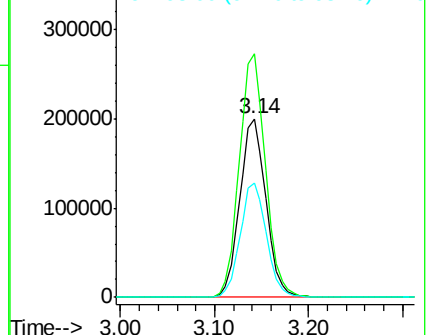
98 63.9 48.6 73.0



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#20

Diisopropyl ether

Concen: 124.228 ug/l

RT: 3.82 min Scan# 449

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Tgt Ion: 45 Resp: 1278379

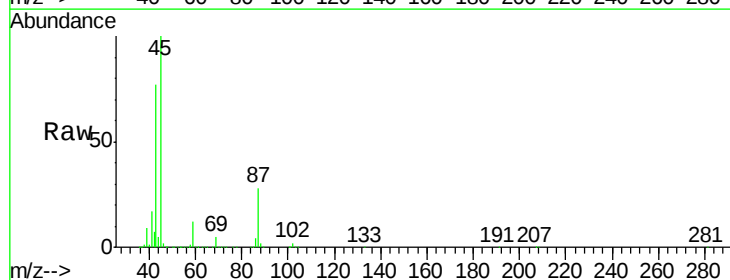
Ion Ratio Lower Upper

45 100

43 76.9 59.5 89.3

87 28.2 23.2 34.8

59 11.6 8.5 12.7

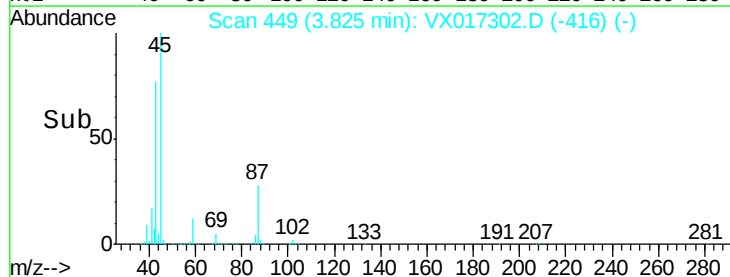
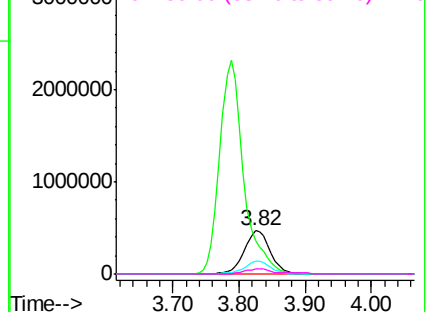


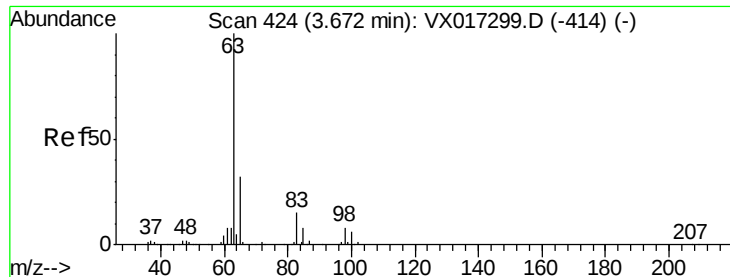
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0

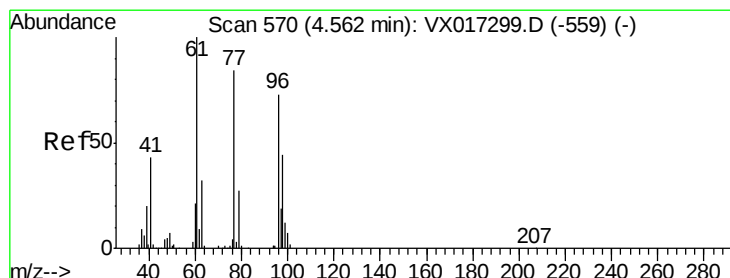
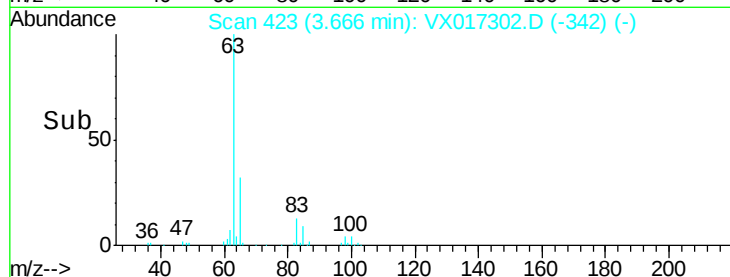
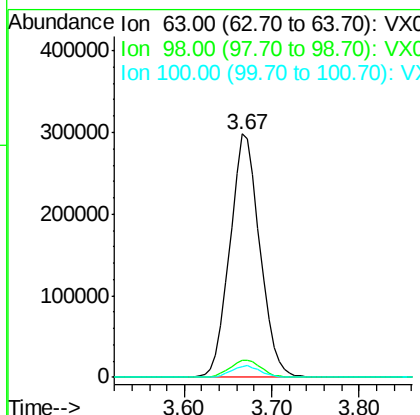
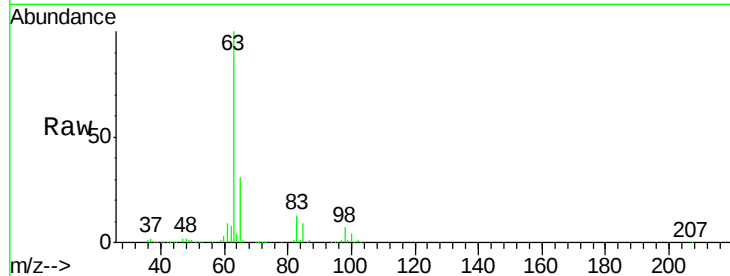




#21  
 1,1-Dichloroethane  
 Concen: 125.517 ug/l  
 RT: 3.67 min Scan# 423  
 Delta R.T. -0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

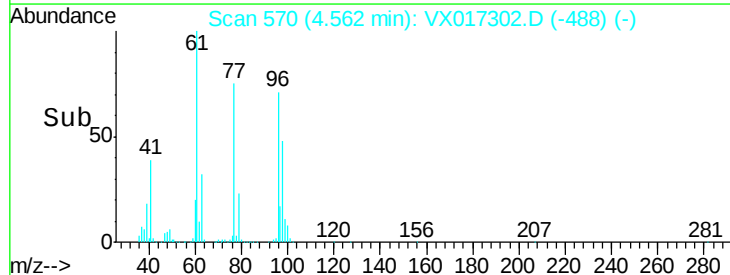
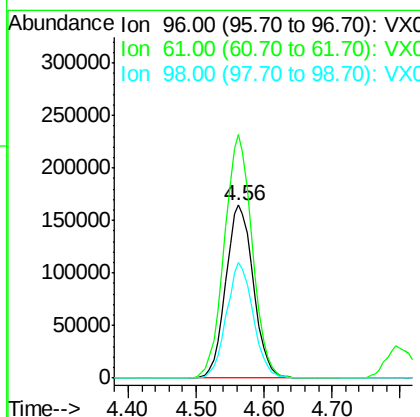
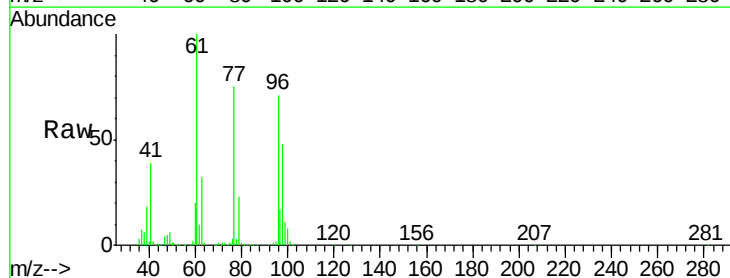
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

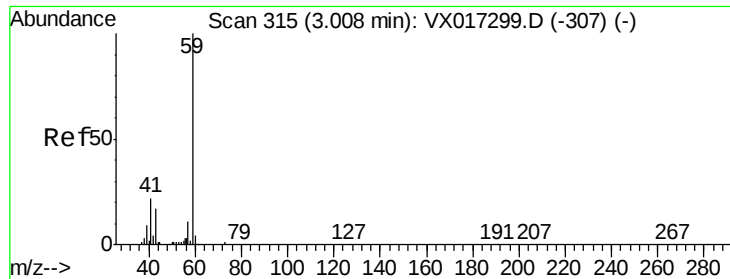
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 7.0   | 4.2   | 12.4  |
| 100     | 4.3   | 2.8   | 8.3   |



#22  
 cis-1,2-Dichloroethene  
 Concen: 132.874 ug/l  
 RT: 4.56 min Scan# 570  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 142.0 | 111.7 | 167.5 |
| 98      | 64.4  | 50.9  | 76.3  |

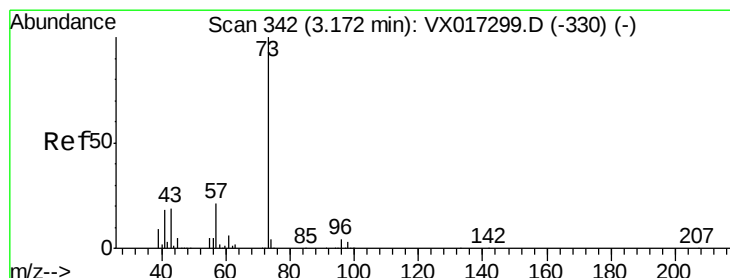
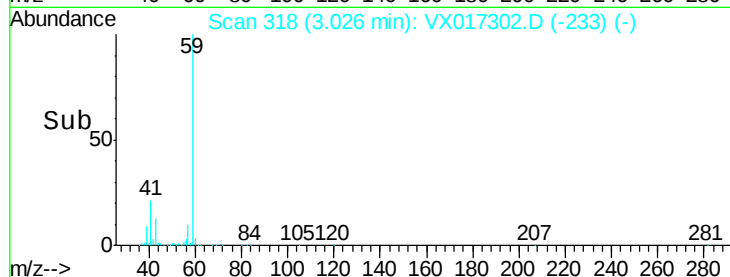
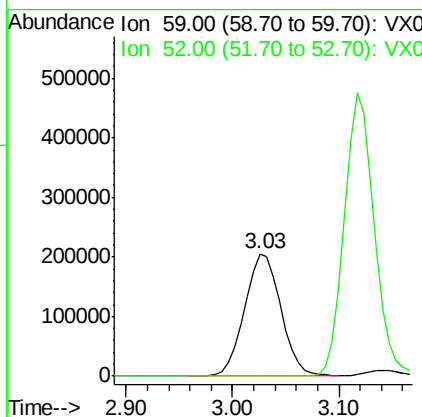
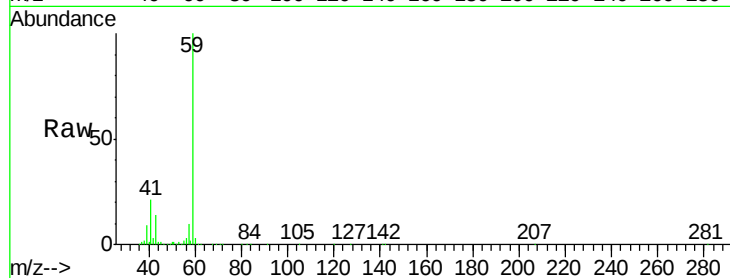




#23  
 tert-Butyl Alcohol  
 Concen: 682.682 ug/l  
 RT: 3.03 min Scan# 318  
 Delta R.T. 0.02 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

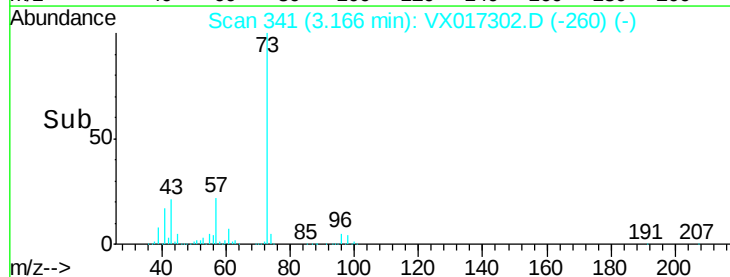
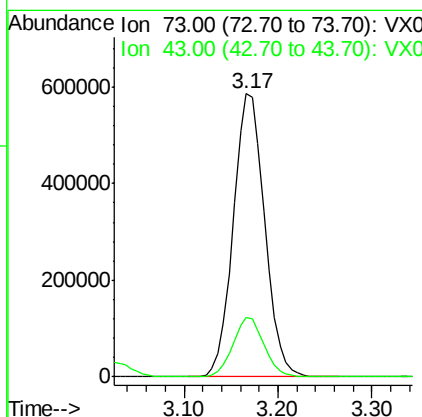
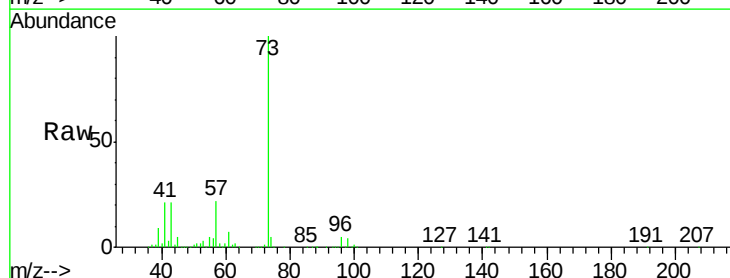
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

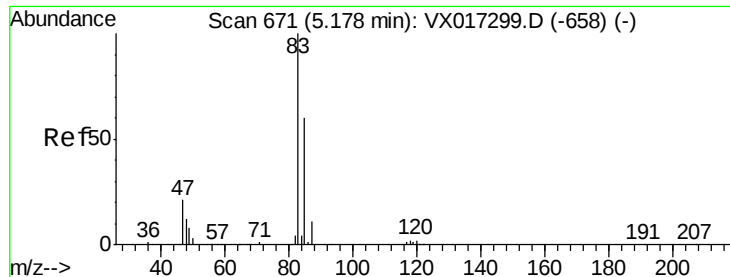
Tgt Ion: 59 Resp: 491478  
 Ion Ratio Lower Upper  
 59 100  
 52 0.1 0.4 0.6#



#24  
 Methyl tert-Butyl Ether  
 Concen: 137.753 ug/l  
 RT: 3.17 min Scan# 341  
 Delta R.T. -0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Tgt Ion: 73 Resp: 1360821  
 Ion Ratio Lower Upper  
 73 100  
 43 20.6 16.3 24.5

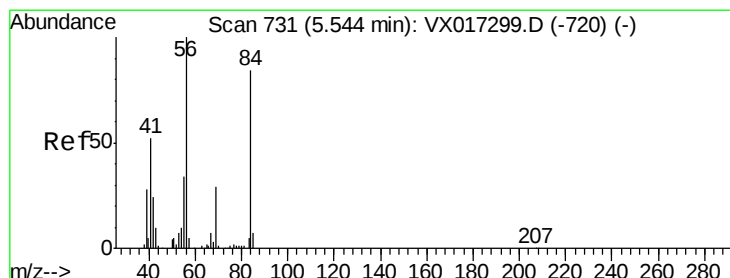
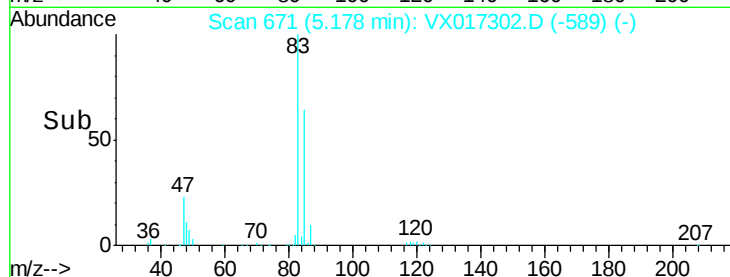
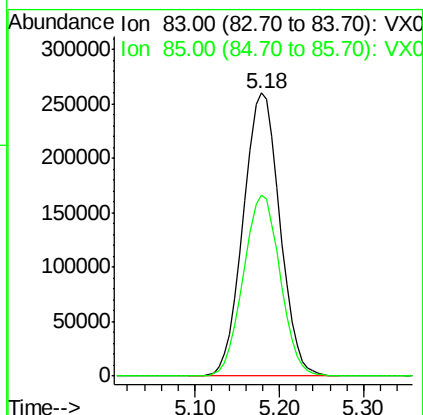
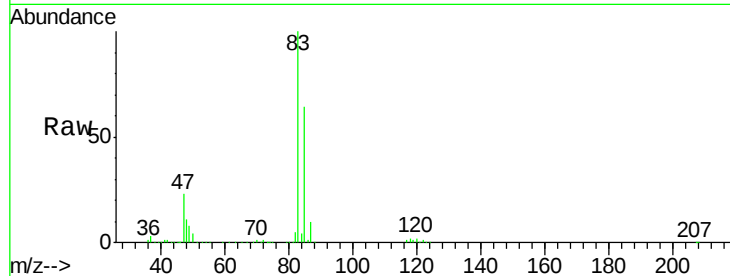




#25  
Chloroform  
Concen: 132.229 ug/l  
RT: 5.18 min Scan# 671  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

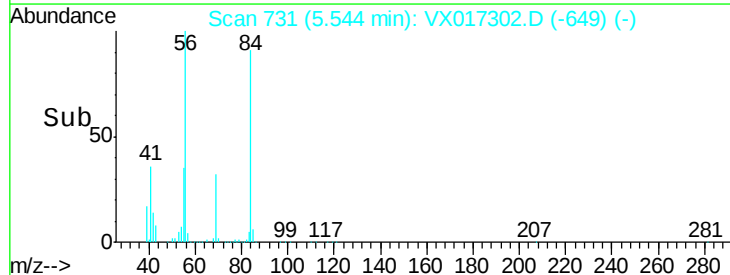
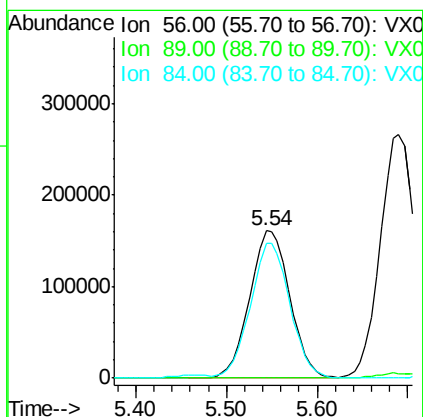
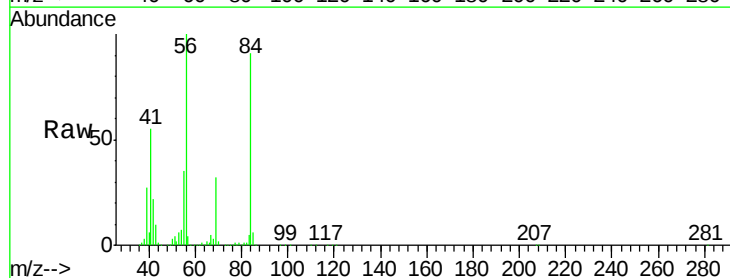
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

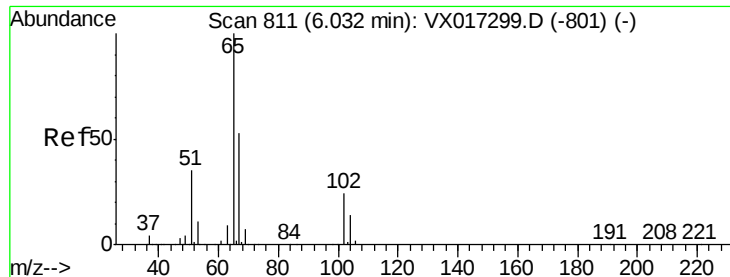
Tgt Ion: 83 Resp: 766788  
Ion Ratio Lower Upper  
83 100  
85 64.0 47.8 71.8



#26  
Cyclohexane  
Concen: 101.070 ug/l  
RT: 5.54 min Scan# 731  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Tgt Ion: 56 Resp: 493599  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.0 0.0  
84 90.5 71.5 107.3





#27

1,2-Dichloroethane-d4

Concen: 28.747 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

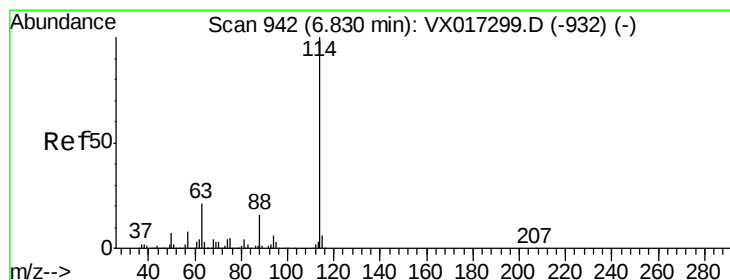
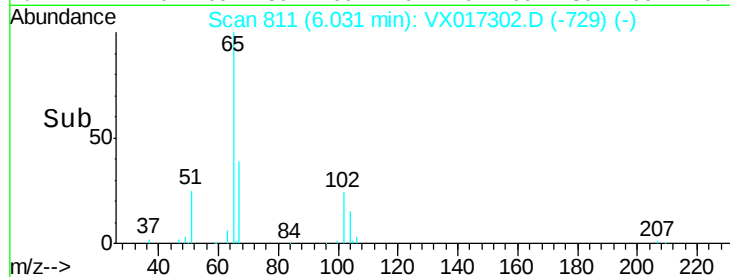
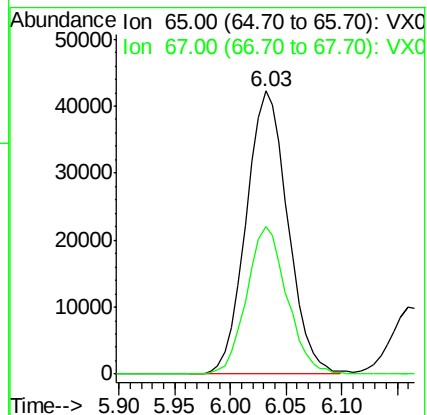
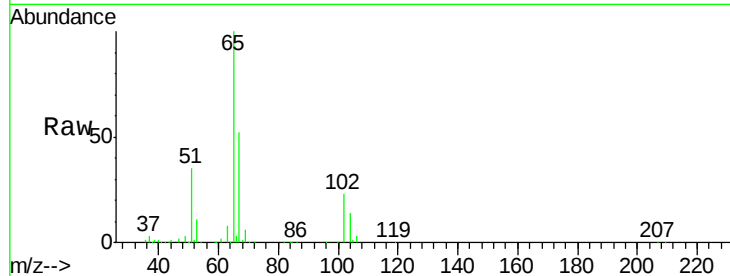
VSTDIC150

Tgt Ion: 65 Resp: 110218

Ion Ratio Lower Upper

65 100

67 50.5 41.0 61.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

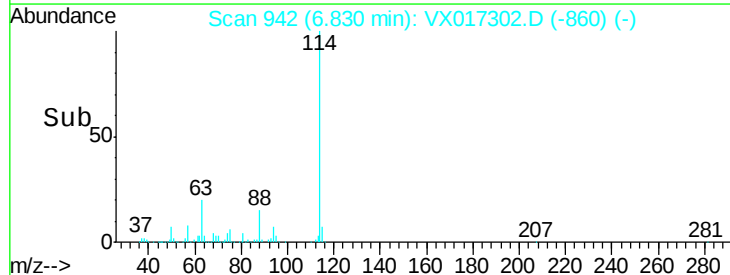
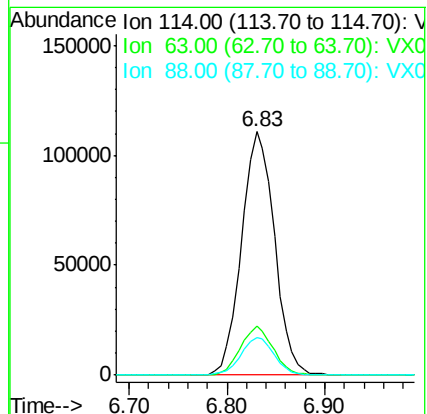
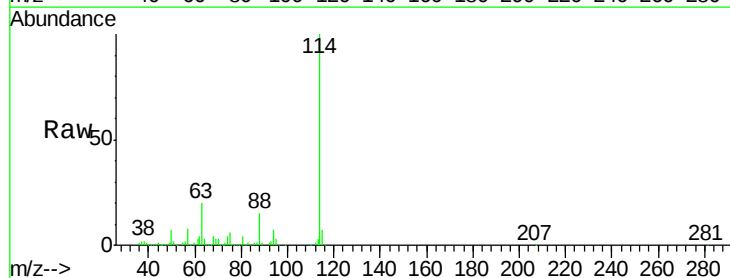
Tgt Ion: 114 Resp: 259738

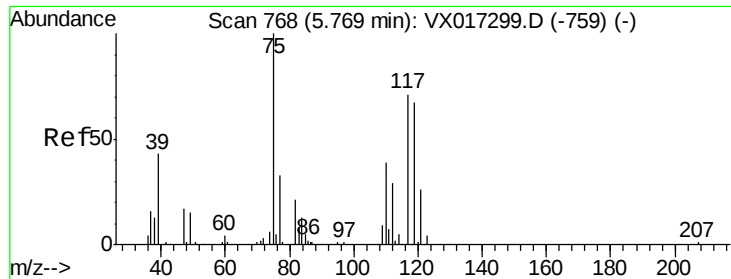
Ion Ratio Lower Upper

114 100

63 19.8 15.9 23.9

88 15.6 12.4 18.6





#29

1,1-Dichloropropene

Concen: 125.154 ug/l

RT: 5.77 min Scan# 768

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampled :

VSTDIC150

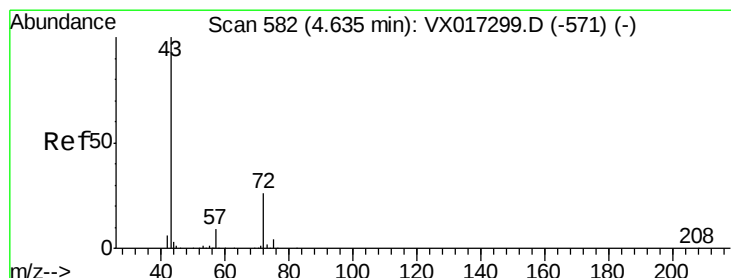
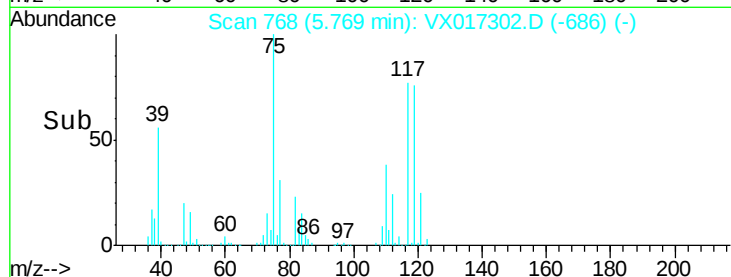
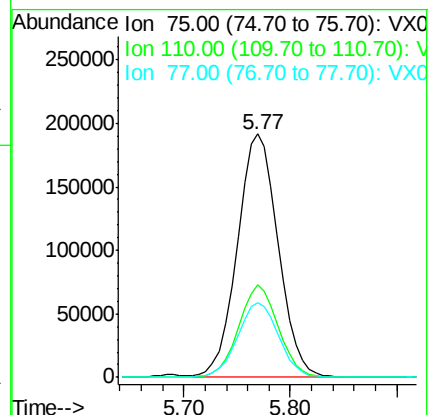
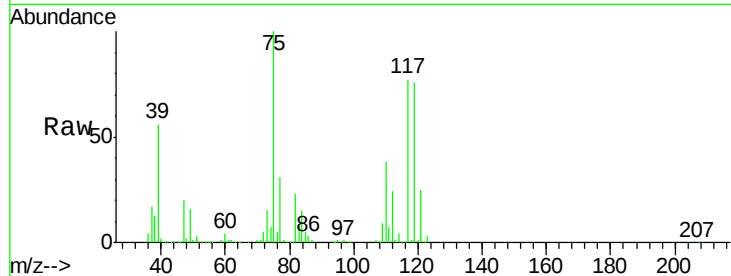
Tgt Ion: 75 Resp: 513118

Ion Ratio Lower Upper

75 100

110 37.0 0.0 75.8

77 31.0 0.0 63.4



#30

2-Butanone

Concen: 731.513 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

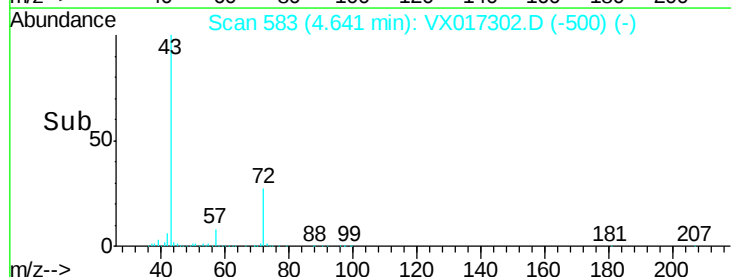
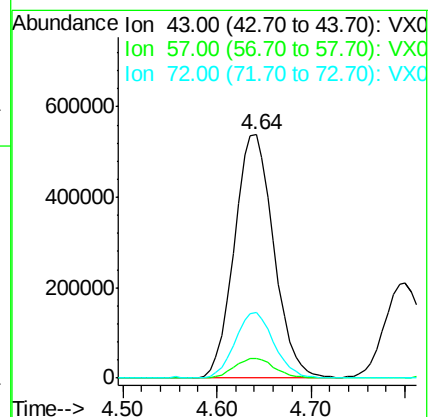
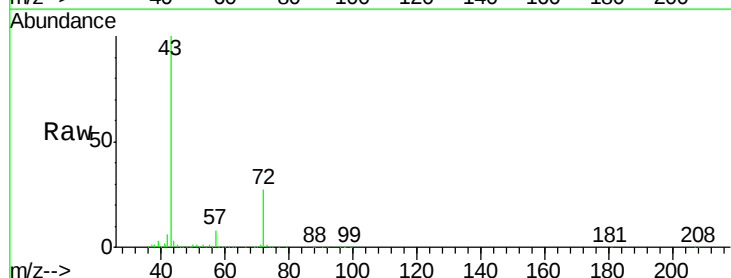
Tgt Ion: 43 Resp: 1565732

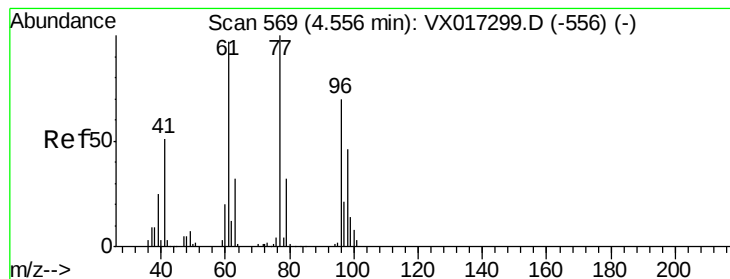
Ion Ratio Lower Upper

43 100

57 8.2 6.8 10.2

72 26.5 21.0 31.6





#31

2,2-Dichloropropane

Concen: 133.048 ug/l

RT: 4.55 min Scan# 568

Delta R.T. -0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

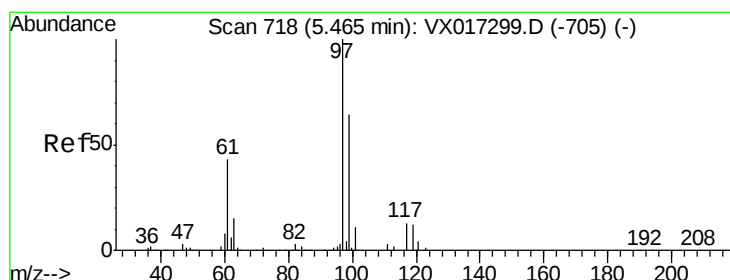
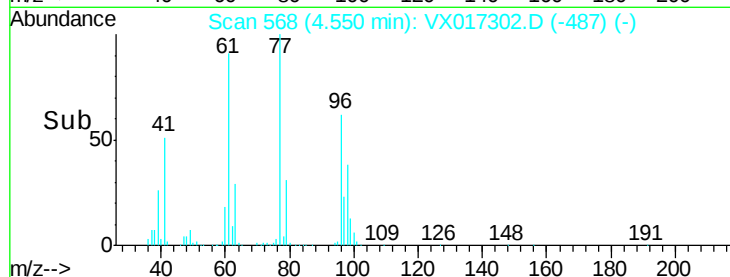
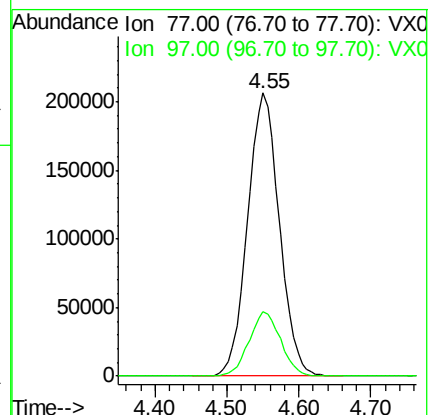
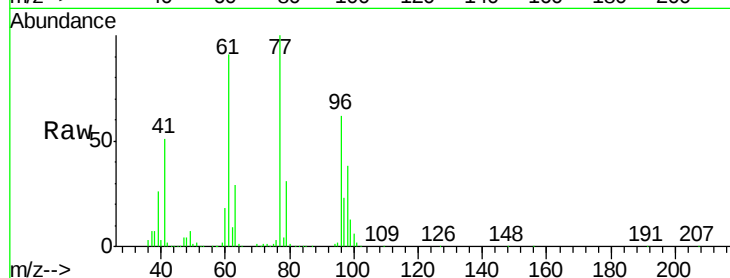
VSTDIC150

Tgt Ion: 77 Resp: 631475

Ion Ratio Lower Upper

77 100

97 22.7 18.2 27.2



#32

1,1,1-Trichloroethane

Concen: 134.245 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

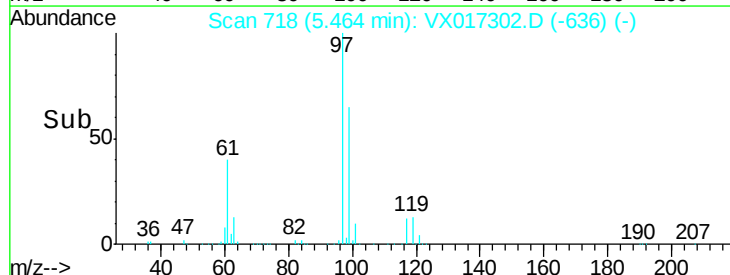
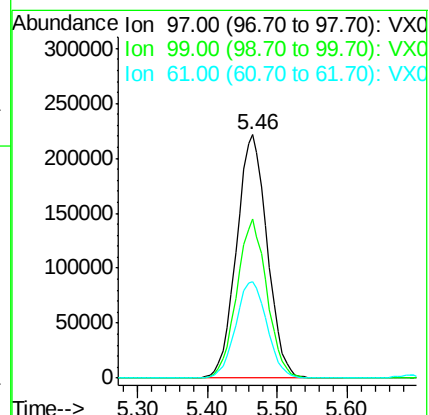
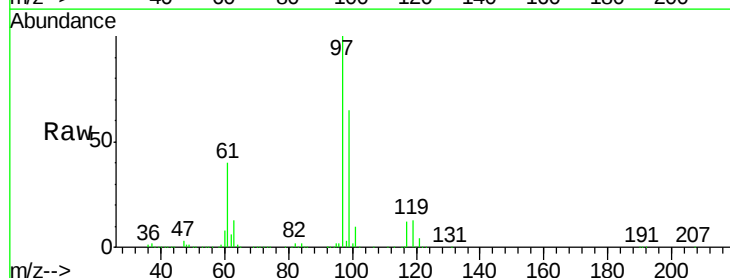
Tgt Ion: 97 Resp: 673326

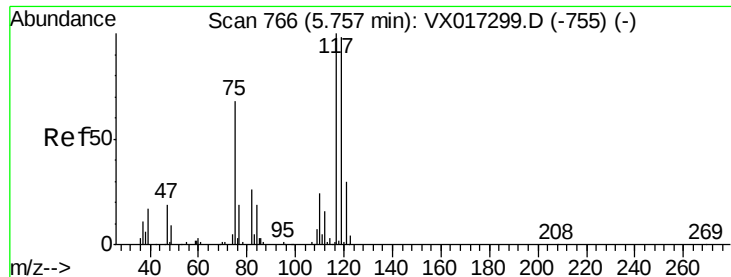
Ion Ratio Lower Upper

97 100

99 64.1 53.2 79.8

61 40.6 34.0 51.0





#33

Carbon Tetrachloride

Concen: 132.924 ug/l

RT: 5.76 min Scan# 766

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampled :

VSTDIC150

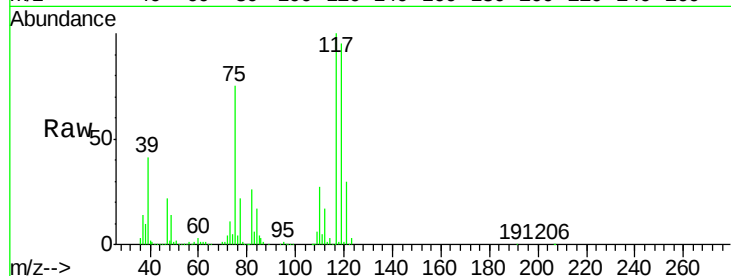
Tgt Ion:117 Resp: 595212

Ion Ratio Lower Upper

117 100

119 95.2 78.8 118.2

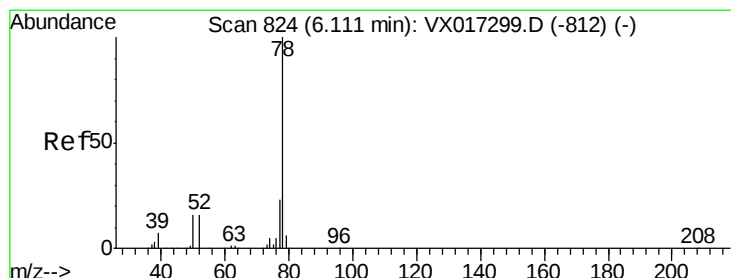
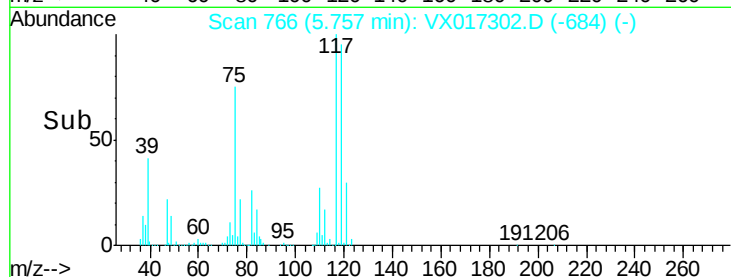
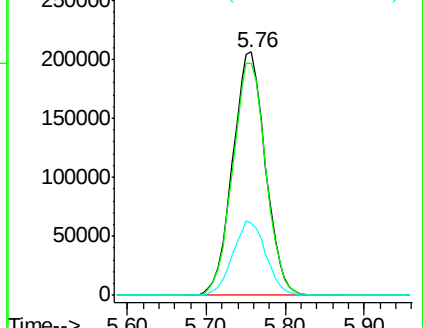
121 29.8 23.7 35.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 133.777 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

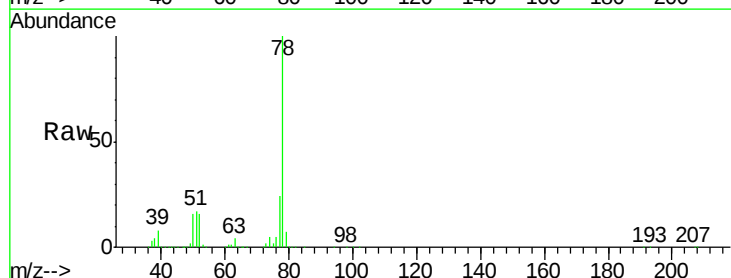
Tgt Ion: 78 Resp: 1594403

Ion Ratio Lower Upper

78 100

77 23.5 18.1 27.1

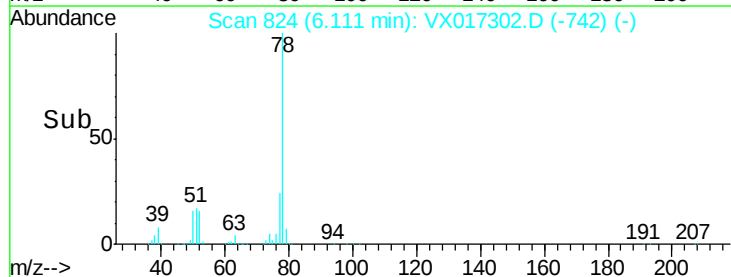
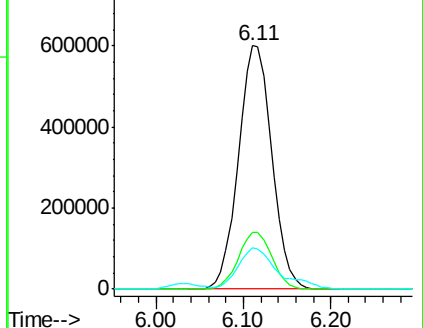
51 17.0 12.9 19.3

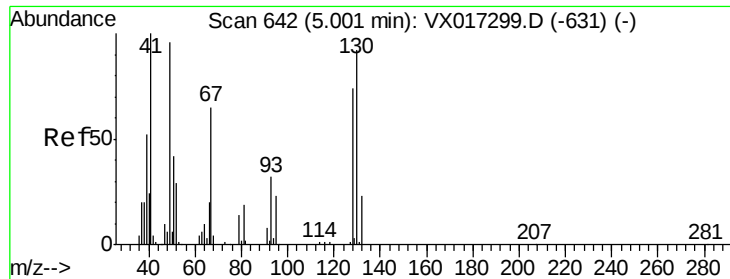


Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

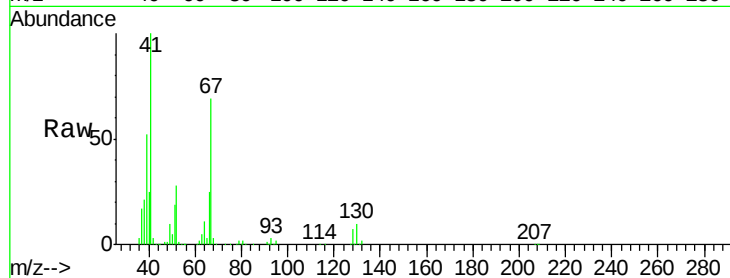




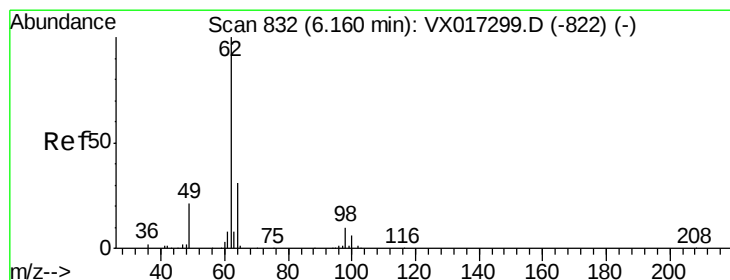
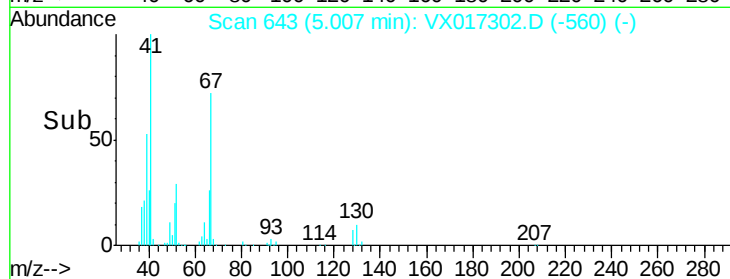
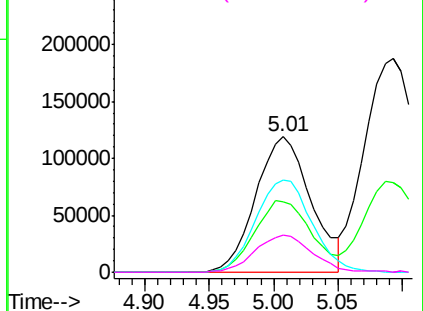
#35  
Methacrylonitrile  
Concen: 149.682 ug/l  
RT: 5.01 min Scan# 643  
Delta R.T. 0.01 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 353336 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 52.1  | 26.0  | 78.0   |
| 67       | 68.6  | 32.6  | 97.8   |
| 52       | 27.8  | 14.2  | 42.6   |

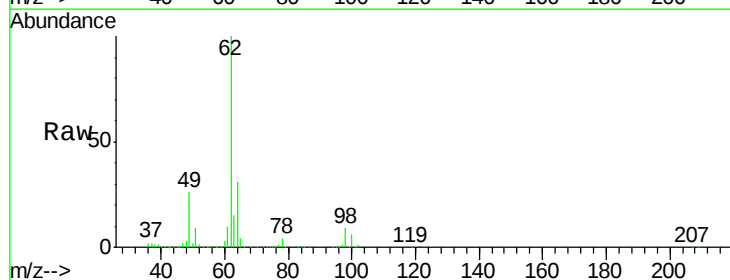


Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0  
Ion 67.00 (66.70 to 67.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0

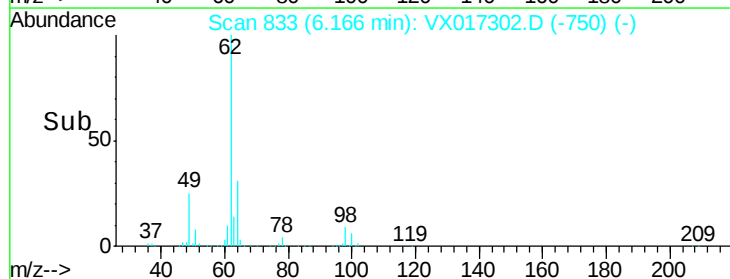
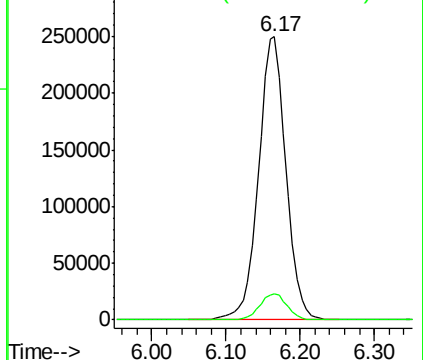


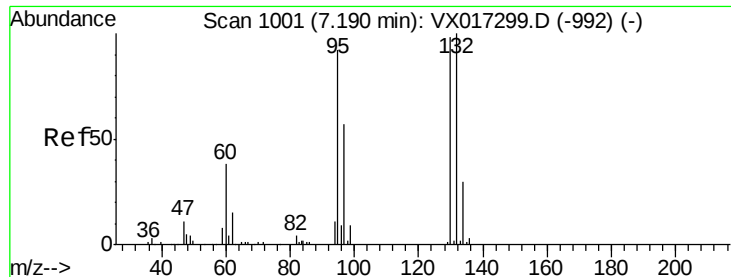
#36  
1,2-Dichloroethane  
Concen: 139.941 ug/l  
RT: 6.17 min Scan# 833  
Delta R.T. 0.01 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 642699 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 9.4   | 7.8   | 11.8   |



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

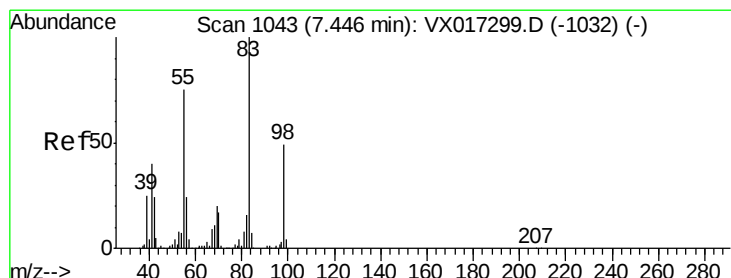
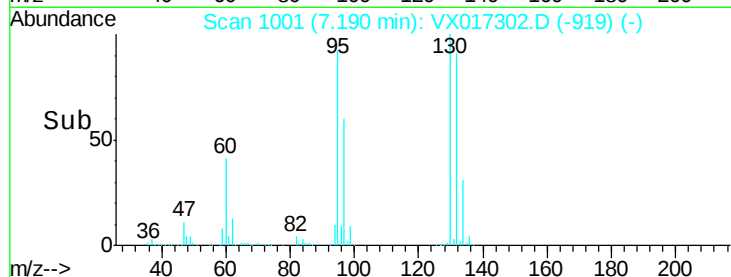
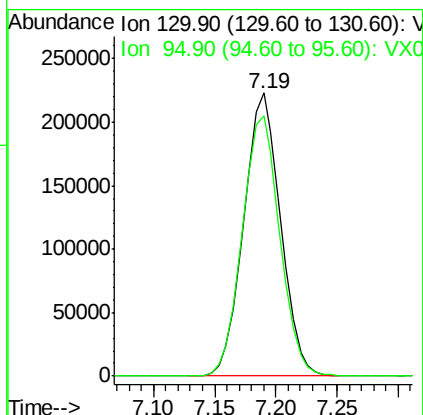
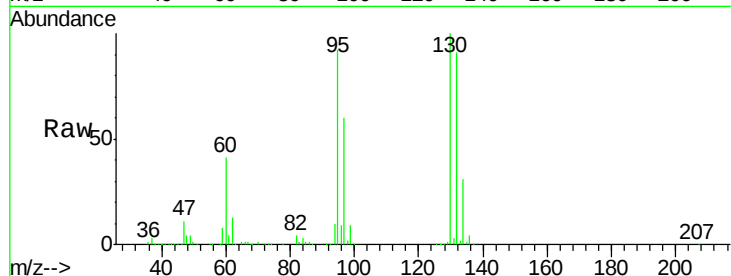




#37  
 Trichloroethene  
 Concen: 141.305 ug/l  
 RT: 7.19 min Scan# 1001  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

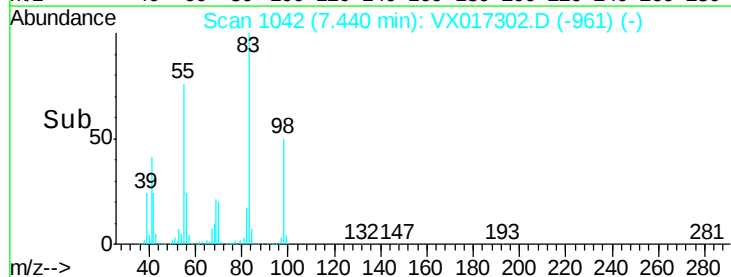
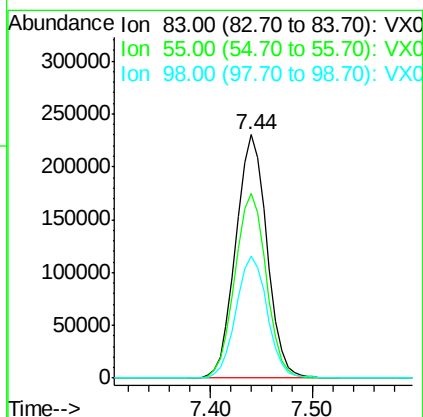
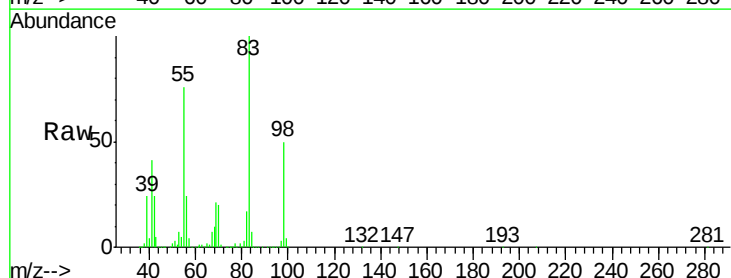
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

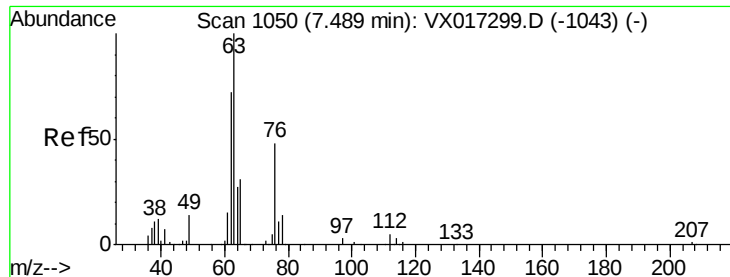
Tgt Ion:130 Resp: 467037  
 Ion Ratio Lower Upper  
 130 100  
 95 91.9 74.4 111.6



#38  
 Methylcyclohexane  
 Concen: 105.774 ug/l  
 RT: 7.44 min Scan# 1042  
 Delta R.T. -0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Tgt Ion: 83 Resp: 490087  
 Ion Ratio Lower Upper  
 83 100  
 55 75.8 39.0 117.0  
 98 50.4 25.3 75.9





#39

1,2-Dichloropropane

Concen: 137.416 ug/l

RT: 7.49 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

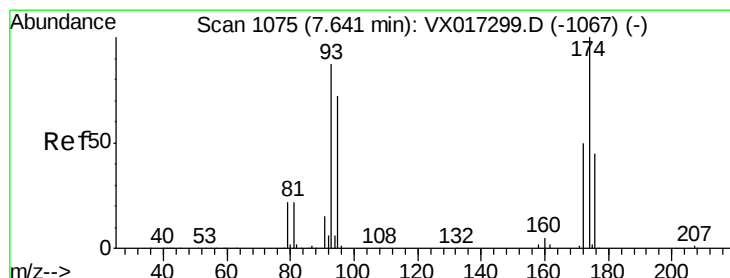
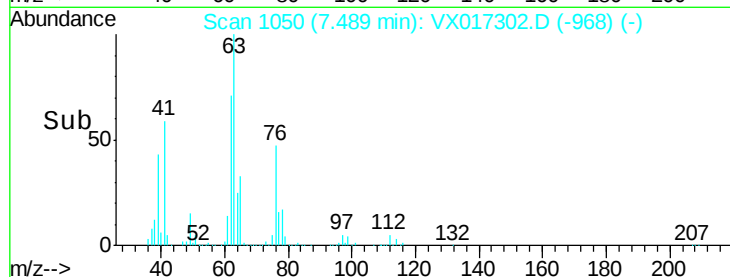
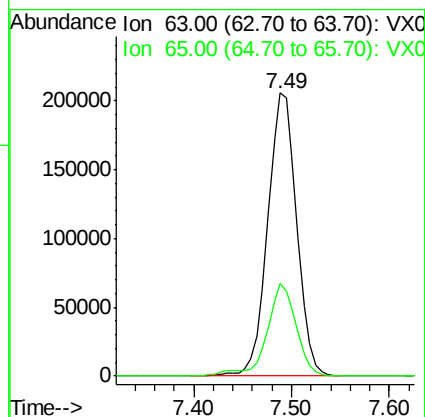
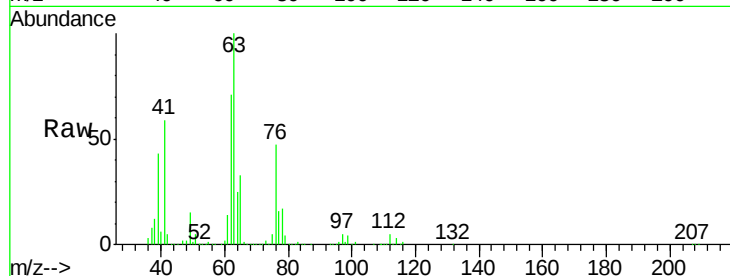
VSTDIC150

Tgt Ion: 63 Resp: 427550

Ion Ratio Lower Upper

63 100

65 32.6 27.4 41.0



#40

Dibromomethane

Concen: 143.384 ug/l

RT: 7.63 min Scan# 1074

Delta R.T. -0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

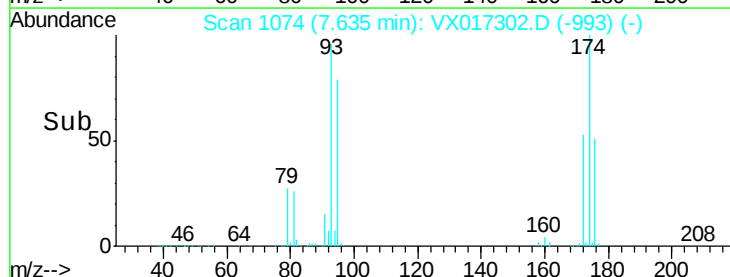
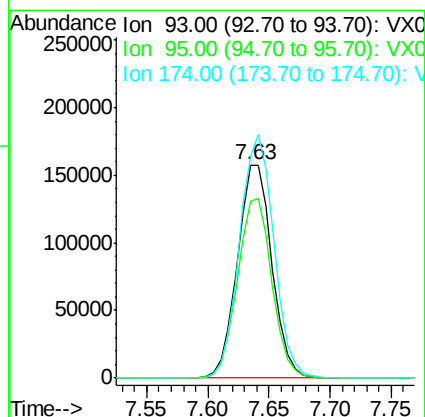
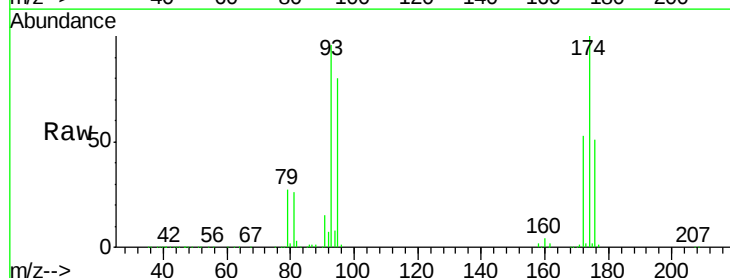
Tgt Ion: 93 Resp: 308606

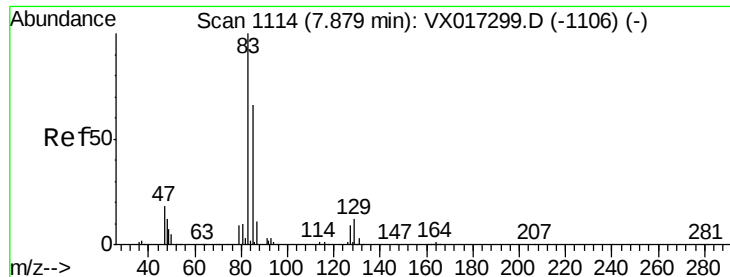
Ion Ratio Lower Upper

93 100

95 83.9 0.0 164.4

174 113.2 0.0 224.8





#41

Bromodichloromethane

Concen: 146.449 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

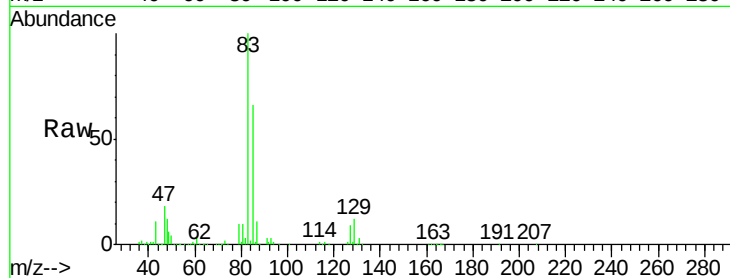
Tgt Ion: 83 Resp: 653025

Ion Ratio Lower Upper

83 100

85 65.7 53.1 79.7

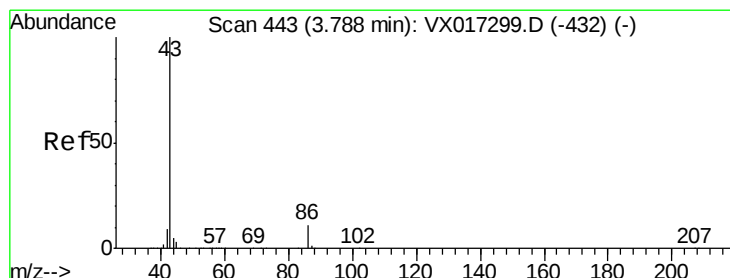
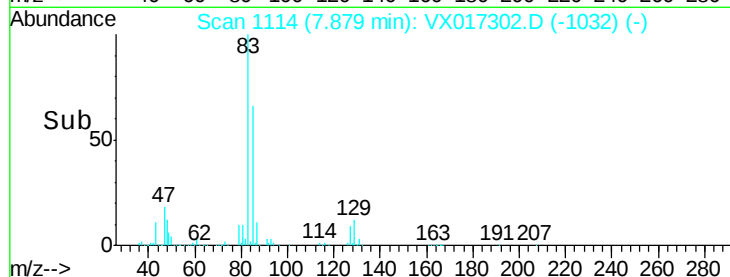
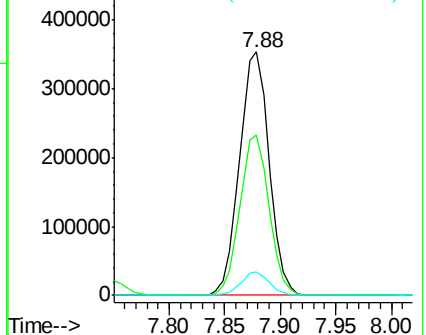
127 9.4 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#42

Vinyl Acetate

Concen: 684.055 ug/l

RT: 3.79 min Scan# 443

Delta R.T. -0.00 min

Lab File: VX017302.D

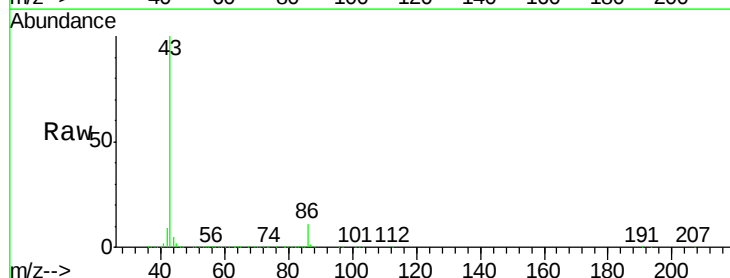
Acq: 09 Jul 2020 12:00

Tgt Ion: 43 Resp: 5852231

Ion Ratio Lower Upper

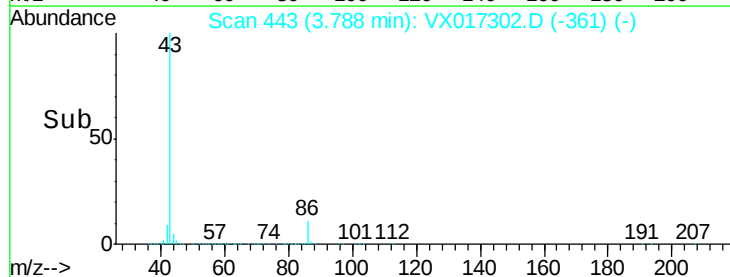
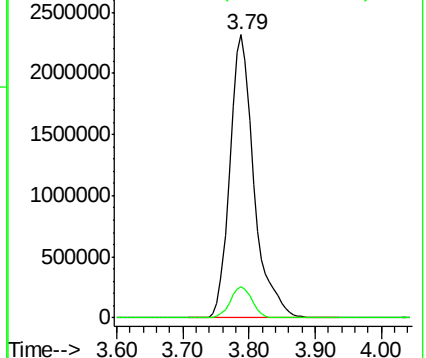
43 100

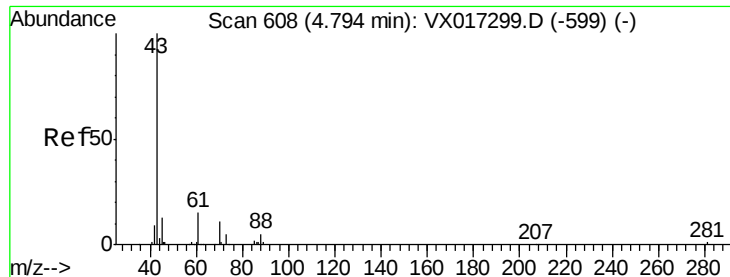
86 10.0 7.9 11.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

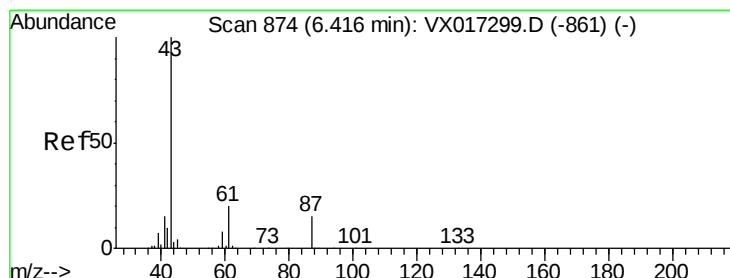
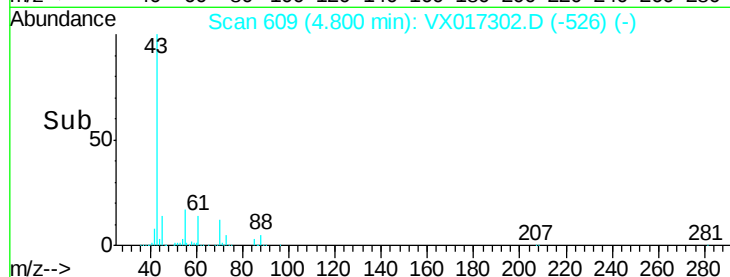
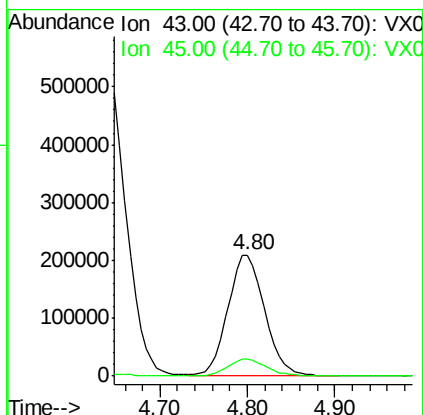
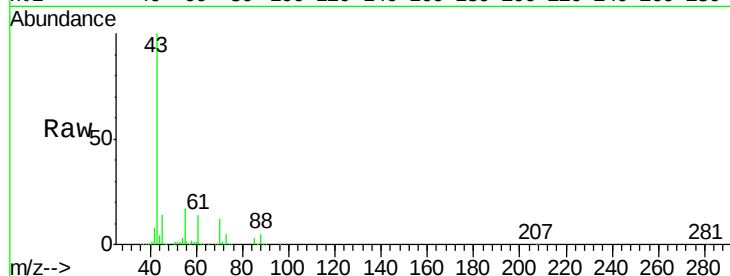




#43  
Ethyl Acetate  
Concen: 138.358 ug/l  
RT: 4.80 min Scan# 609  
Delta R.T. 0.01 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

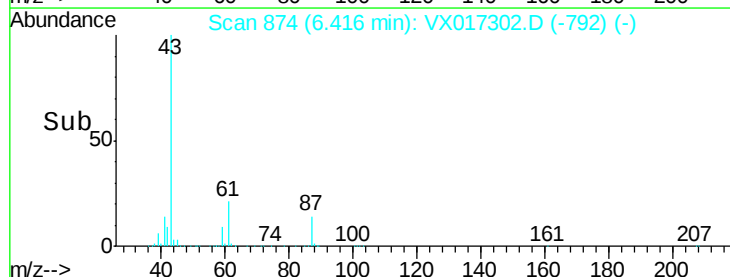
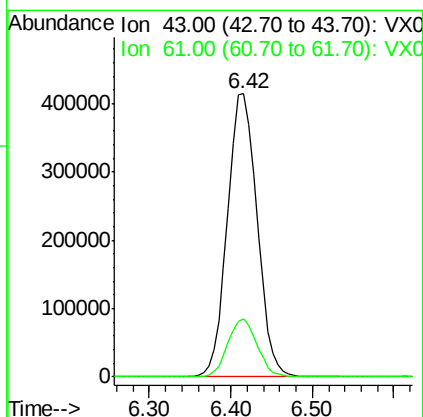
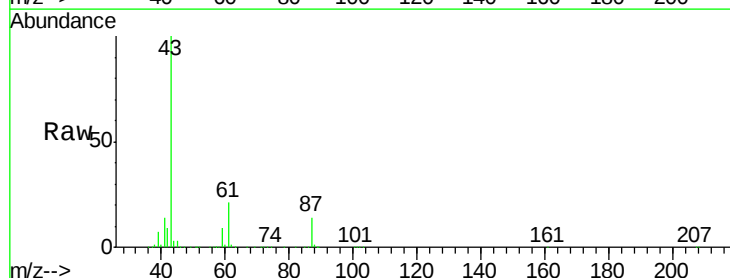
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

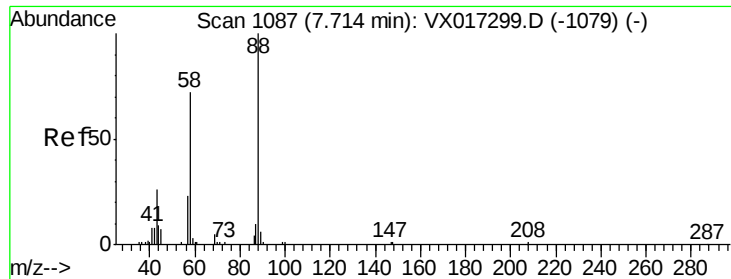
Tgt Ion: 43 Resp: 609923  
Ion Ratio Lower Upper  
43 100  
45 15.1 12.1 18.1



#44  
Isopropyl Acetate  
Concen: 143.923 ug/l  
RT: 6.42 min Scan# 874  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Tgt Ion: 43 Resp: 1044716  
Ion Ratio Lower Upper  
43 100  
61 20.1 15.7 23.5

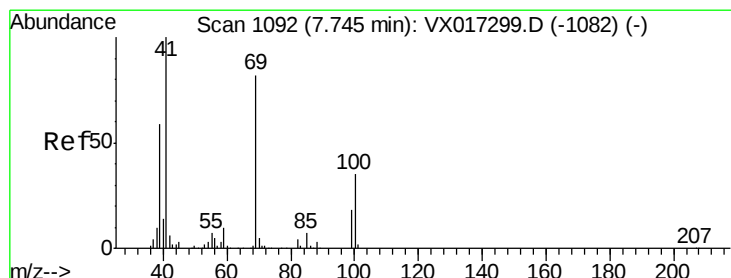
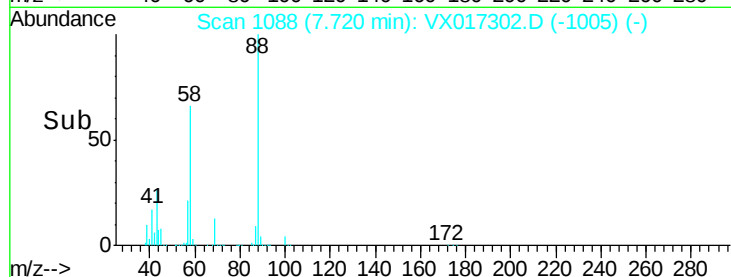
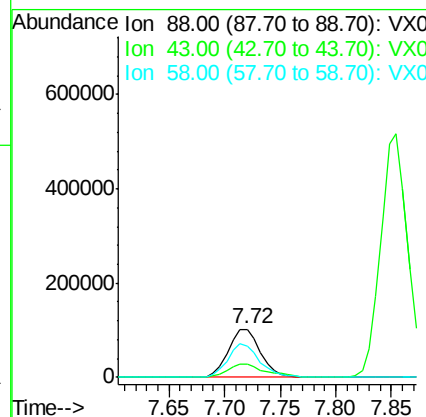
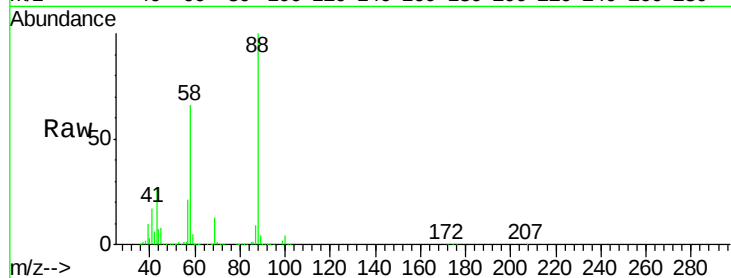




#45  
 1,4-Dioxane  
 Concen: 2861.394 ug/l  
 RT: 7.72 min Scan# 1088  
 Delta R.T. 0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

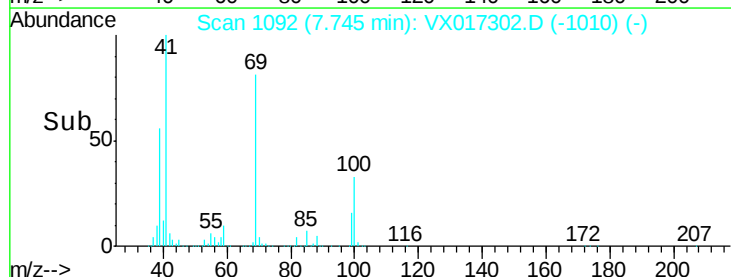
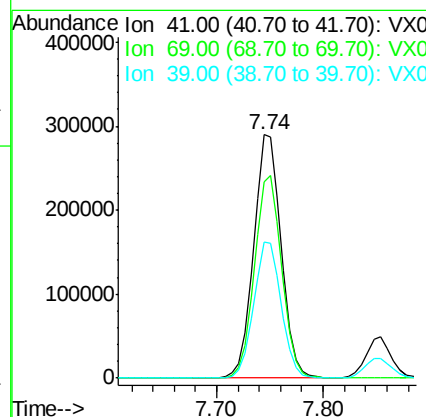
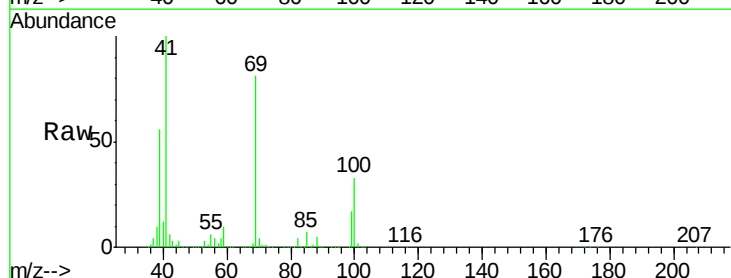
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

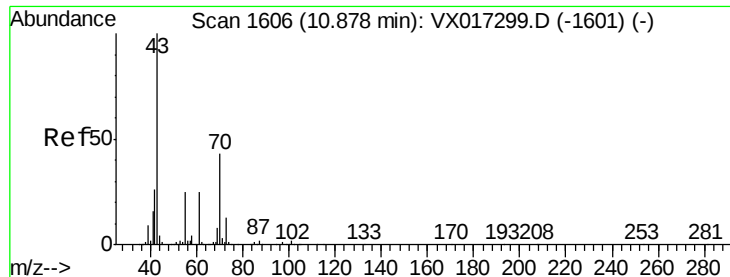
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 32.5  | 29.0  | 43.4  |
| 58      | 69.1  | 58.3  | 87.5  |



#46  
 Methyl methacrylate  
 Concen: 154.599 ug/l  
 RT: 7.74 min Scan# 1092  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 80.8  | 41.1  | 123.3 |
| 39      | 55.9  | 29.2  | 87.6  |

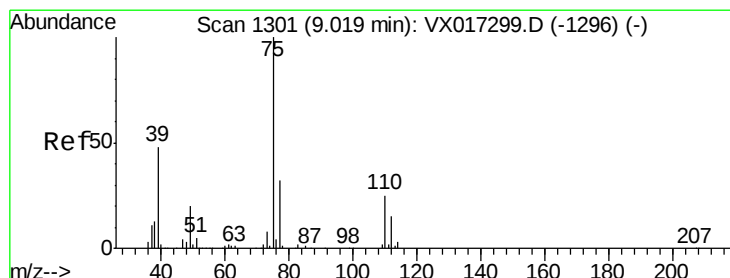
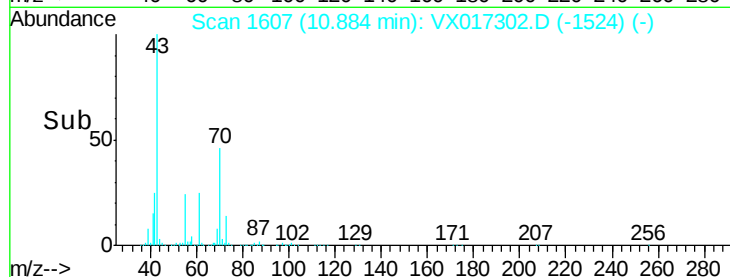
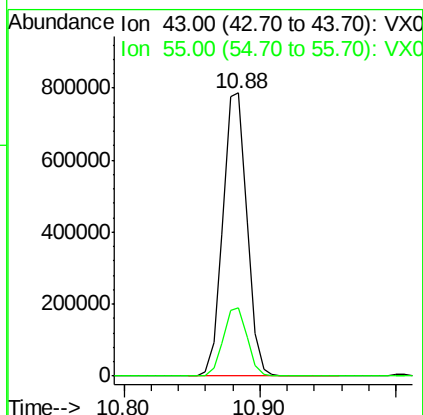
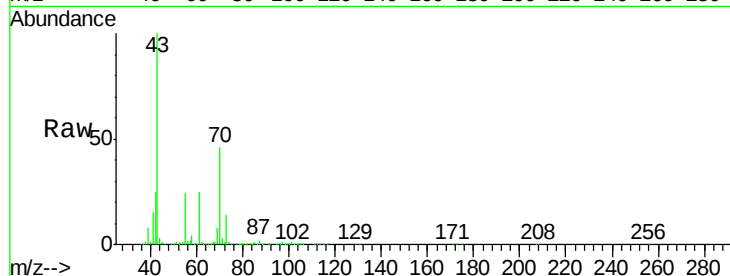




#47  
n-amy1 Acetate  
Concen: 150.370 ug/l  
RT: 10.88 min Scan# 1607  
Delta R.T. 0.01 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

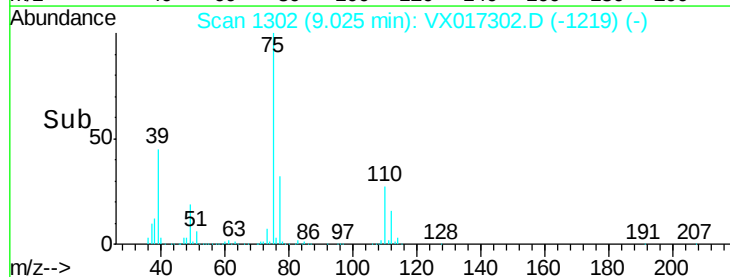
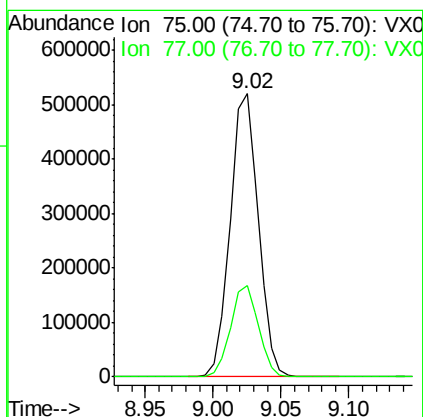
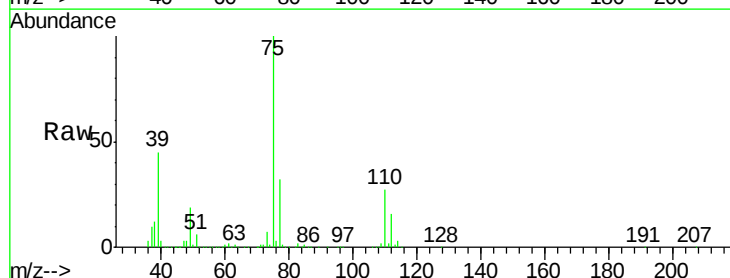
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

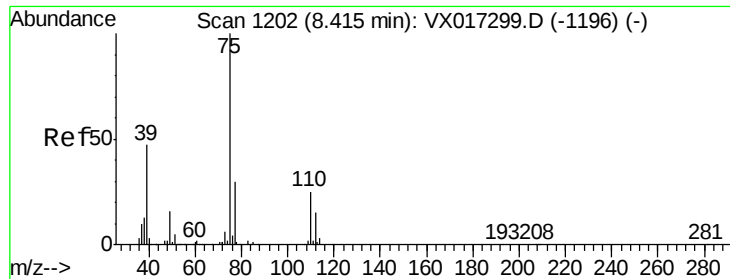
Tgt Ion: 43 Resp: 963999  
Ion Ratio Lower Upper  
43 100  
55 24.2 20.4 30.6



#48  
t-1,3-Dichloropropene  
Concen: 151.958 ug/l  
RT: 9.02 min Scan# 1302  
Delta R.T. 0.01 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Tgt Ion: 75 Resp: 750806  
Ion Ratio Lower Upper  
75 100  
77 32.1 25.6 38.4





#49

cis-1,3-Dichloropropene

Concen: 147.061 ug/l

RT: 8.42 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

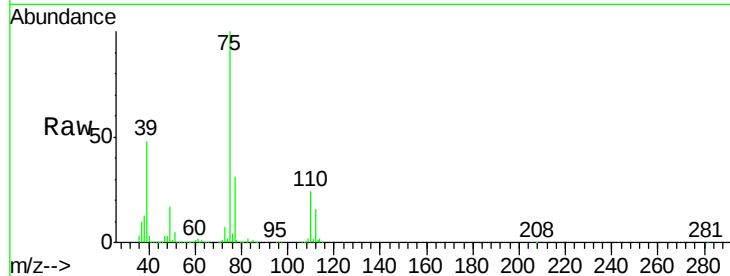
Tgt Ion: 75 Resp: 762279

Ion Ratio Lower Upper

75 100

77 31.2 23.6 35.4

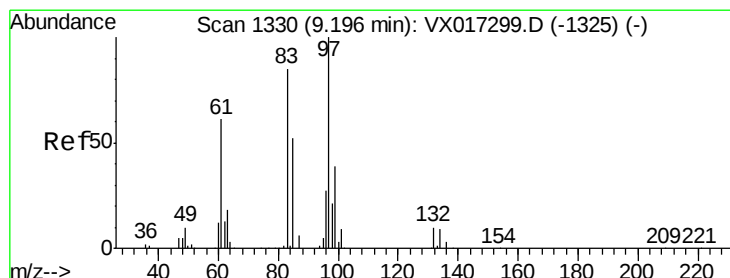
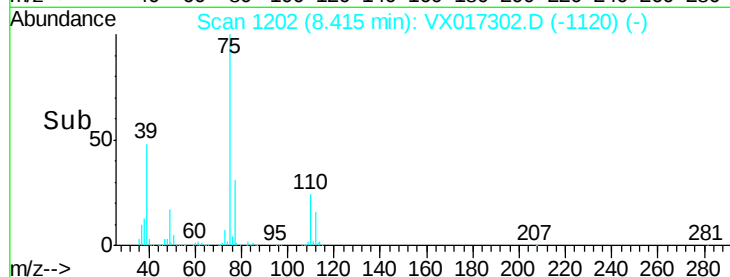
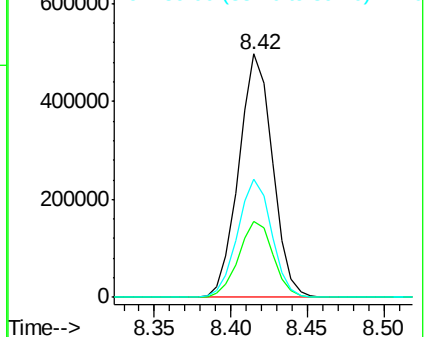
39 48.2 37.5 56.3



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#50

1,1,2-Trichloroethane

Concen: 150.141 ug/l

RT: 9.20 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Tgt Ion: 97 Resp: 457210

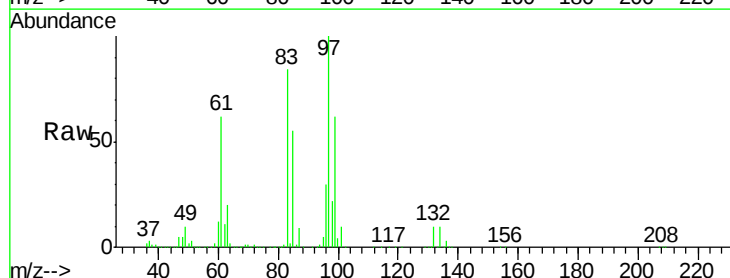
Ion Ratio Lower Upper

97 100

83 84.4 67.9 101.9

85 55.3 42.6 64.0

99 62.4 50.7 76.1

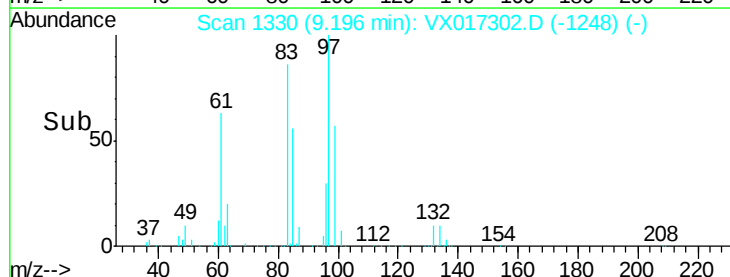
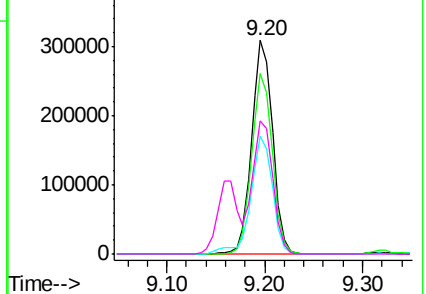


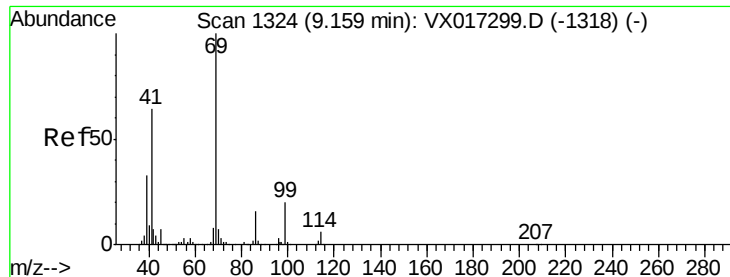
Abundance Ion 97.00 (96.70 to 97.70): VX0

Ion 82.95 (82.65 to 83.65): VX0

Ion 84.95 (84.65 to 85.65): VX0

Ion 98.95 (98.65 to 99.65): VX0





#51

Ethyl methacrylate

Concen: 161.340 ug/l

RT: 9.16 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

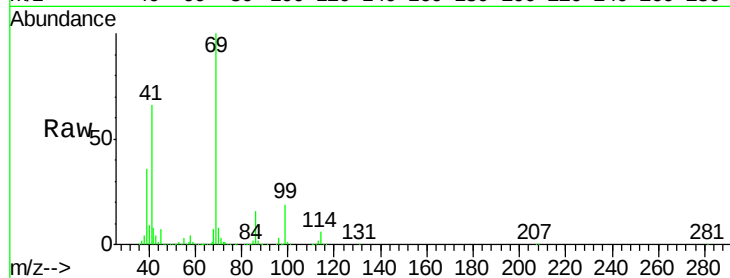
Tgt Ion: 69 Resp: 742258

Ion Ratio Lower Upper

69 100

41 65.6 32.1 96.5

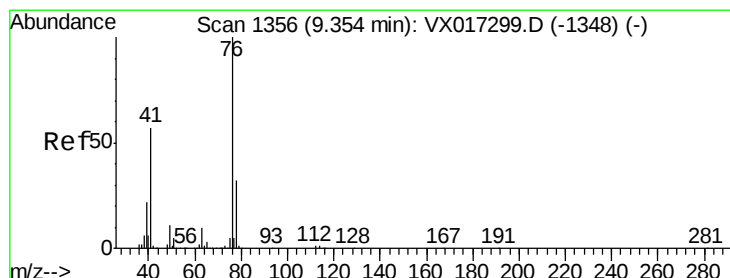
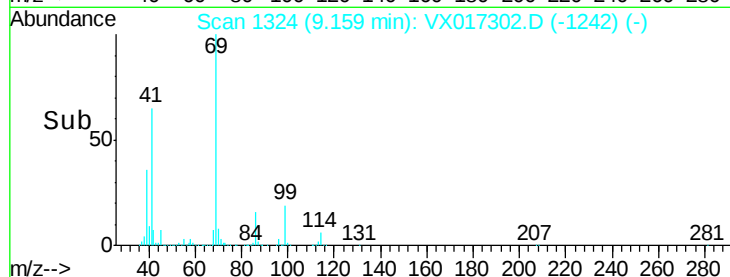
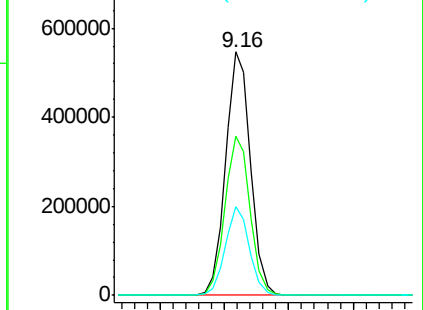
39 36.2 16.3 48.9



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: 148.247 ug/l

RT: 9.35 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VX017302.D

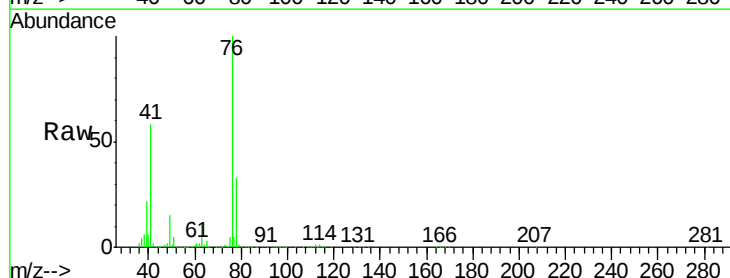
Acq: 09 Jul 2020 12:00

Tgt Ion: 76 Resp: 762374

Ion Ratio Lower Upper

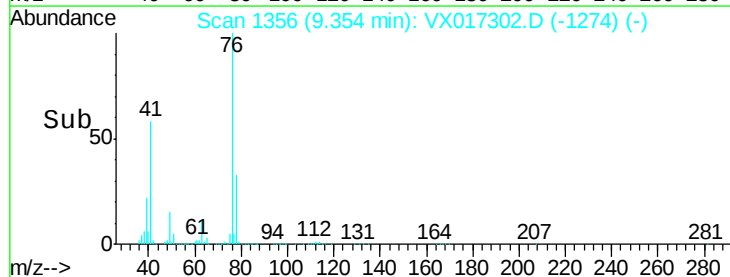
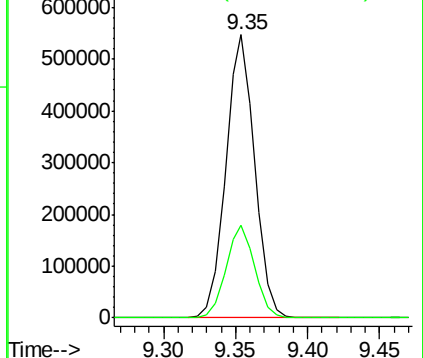
76 100

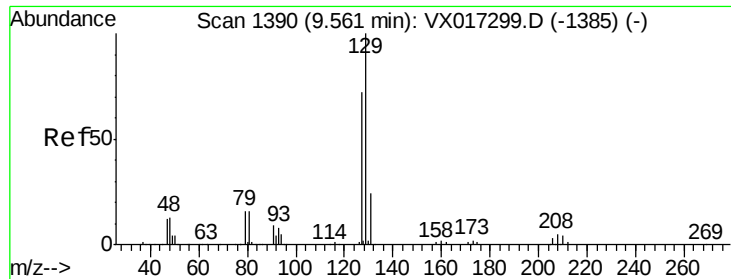
78 32.6 0.0 65.6



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

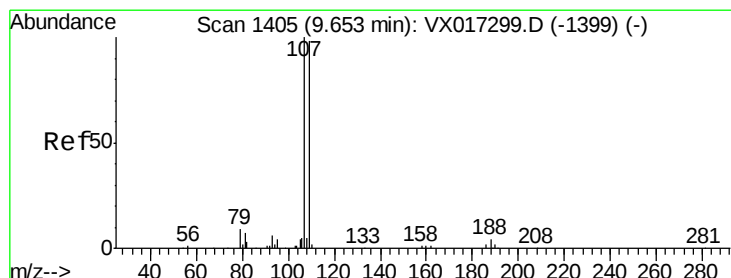
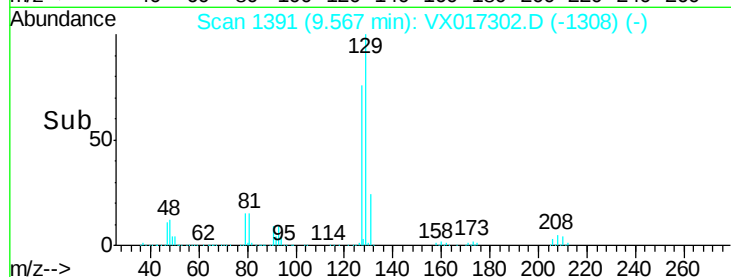
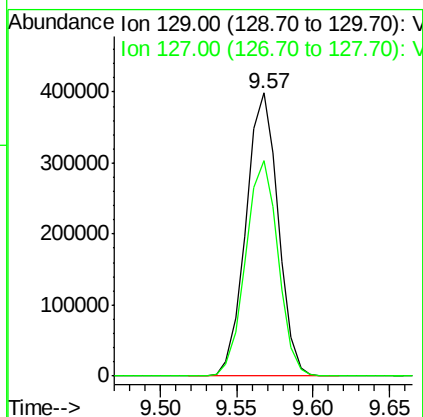
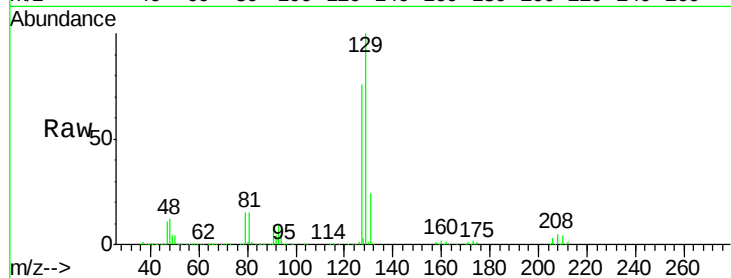




#53  
Dibromochloromethane  
Concen: 165.343 ug/l  
RT: 9.57 min Scan# 1391  
Delta R.T. 0.01 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

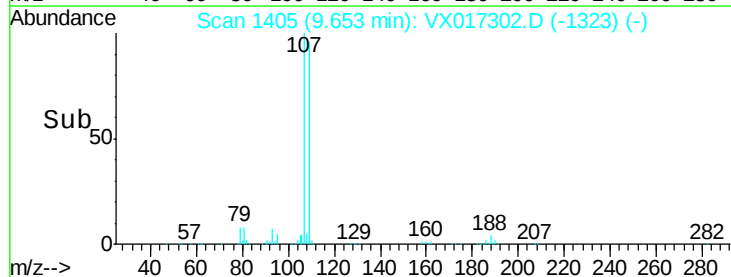
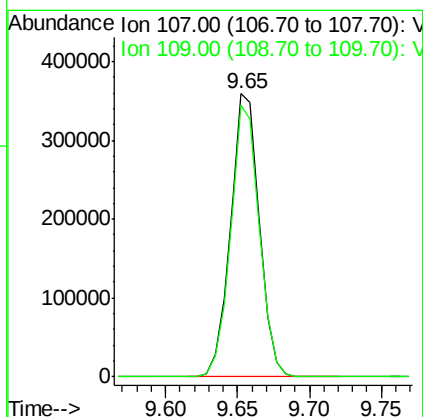
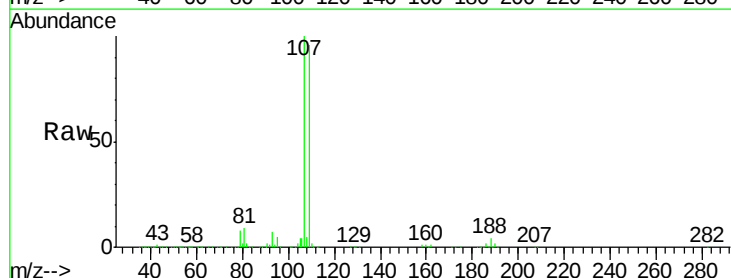
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

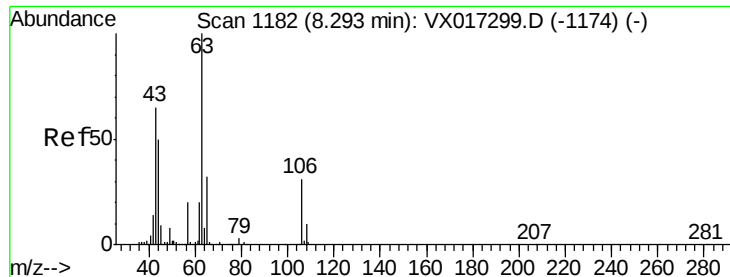
Tgt Ion:129 Resp: 584186  
Ion Ratio Lower Upper  
129 100  
127 76.6 37.5 112.5



#54  
1,2-Dibromoethane  
Concen: 155.514 ug/l  
RT: 9.65 min Scan# 1405  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Tgt Ion:107 Resp: 502331  
Ion Ratio Lower Upper  
107 100  
109 95.6 76.9 115.3

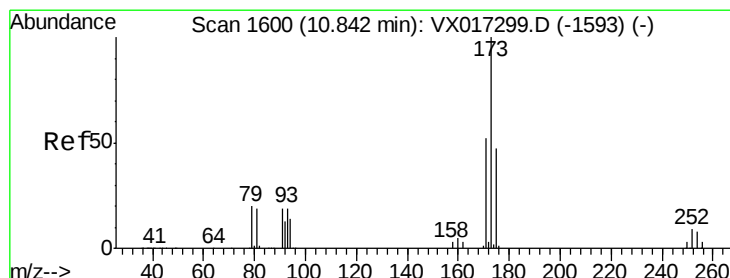
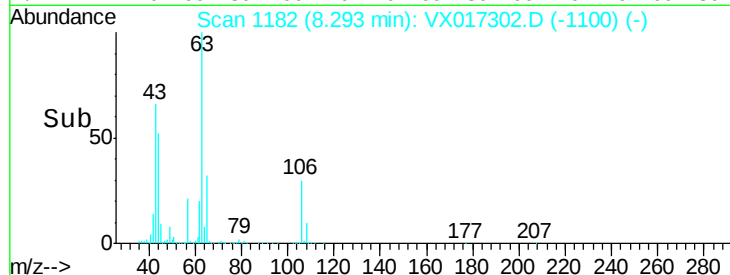
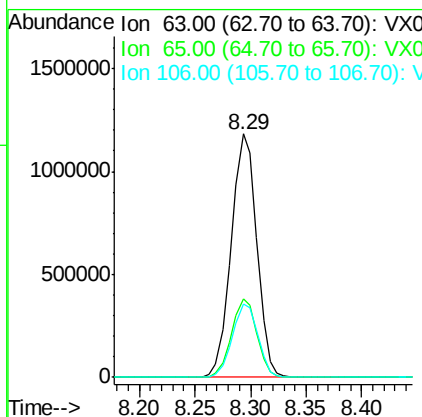
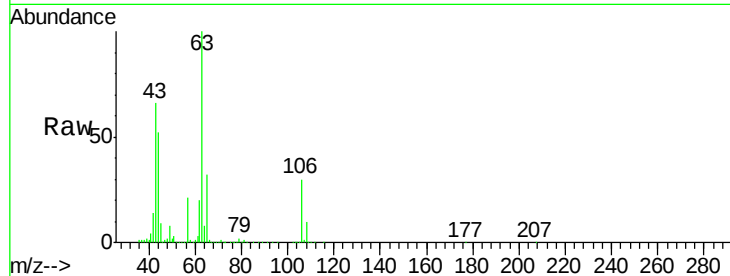




#55  
 2-Chloroethyl vinyl ether  
 Concen: 773.533 ug/l  
 RT: 8.29 min Scan# 1182  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

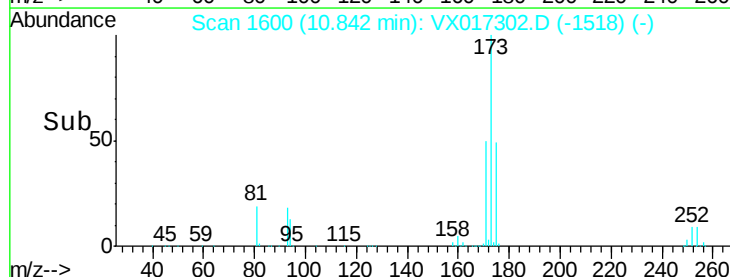
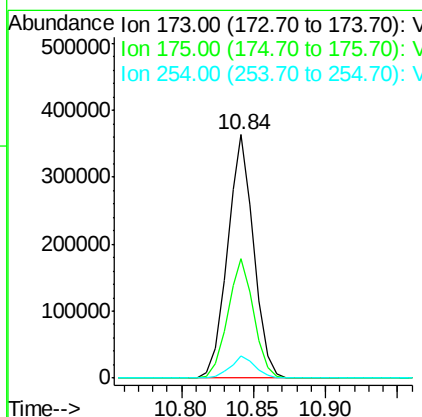
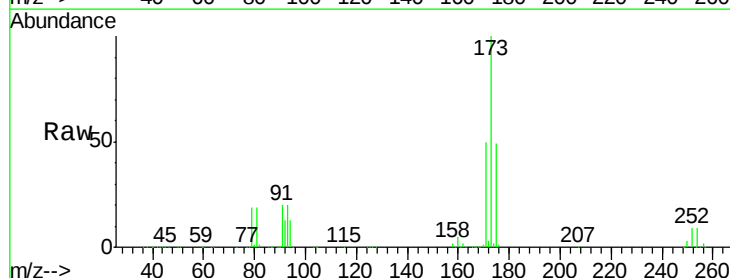
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

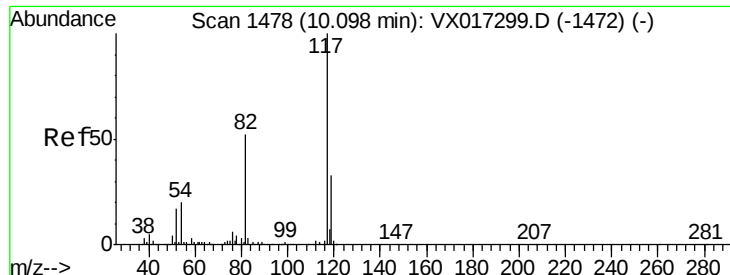
Tgt Ion: 63 Resp: 1874720  
 Ion Ratio Lower Upper  
 63 100  
 65 32.0 25.4 38.0  
 106 30.3 24.5 36.7



#56  
 Bromoform  
 Concen: 180.909 ug/l  
 RT: 10.84 min Scan# 1600  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Tgt Ion: 173 Resp: 460908  
 Ion Ratio Lower Upper  
 173 100  
 175 48.8 38.4 57.6  
 254 8.7 7.0 10.4

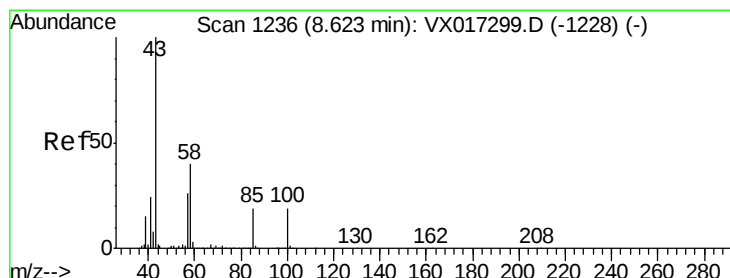
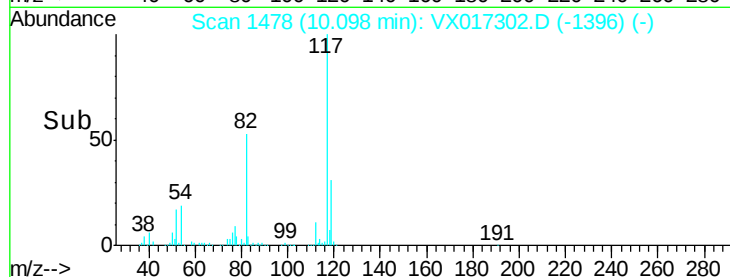
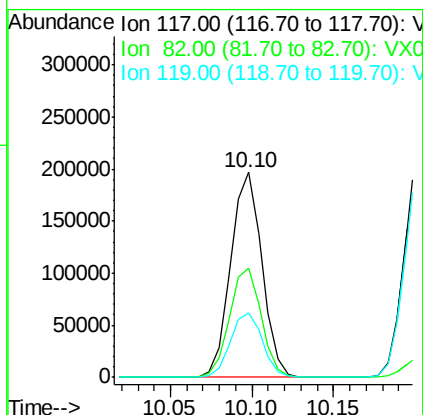
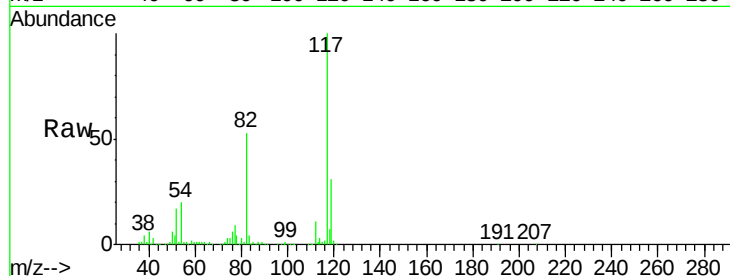




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

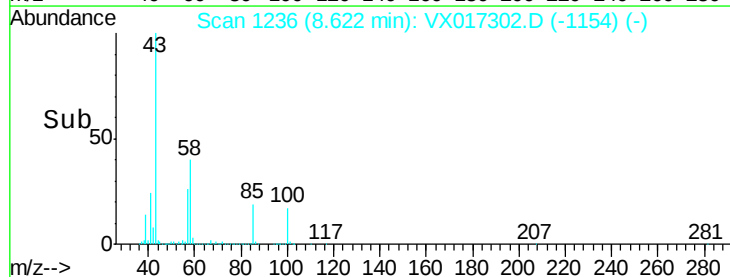
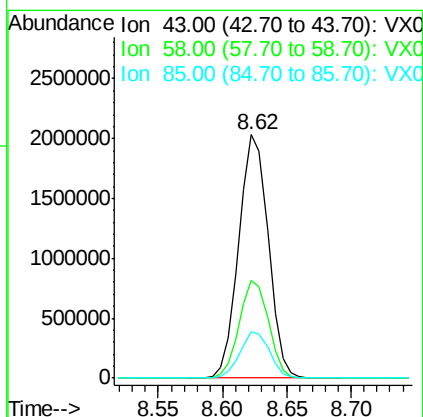
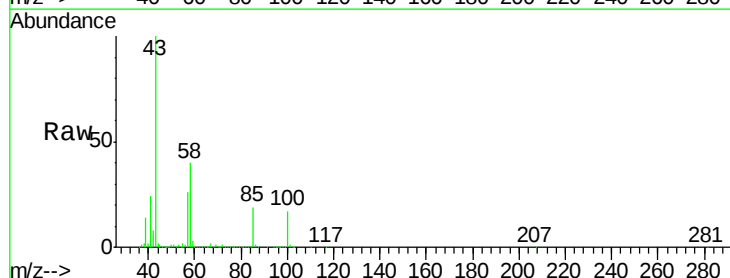
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

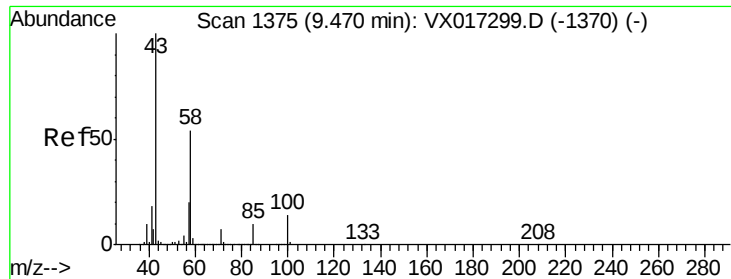
Tgt Ion: 117 Resp: 261006  
Ion Ratio Lower Upper  
117 100  
82 54.1 42.2 63.4  
119 32.4 26.4 39.6



#58  
4-Methyl-2-Pentanone  
Concen: 691.806 ug/l  
RT: 8.62 min Scan# 1236  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Tgt Ion: 43 Resp: 3226625  
Ion Ratio Lower Upper  
43 100  
58 39.9 32.2 48.2  
85 18.9 14.8 22.2

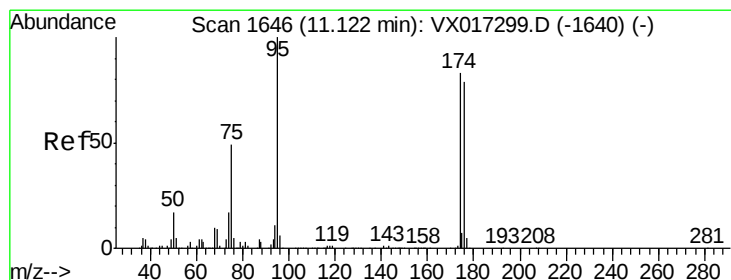
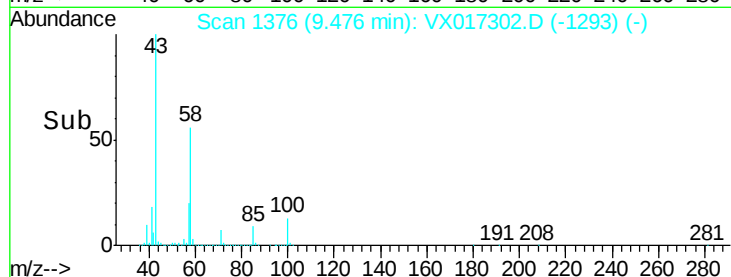
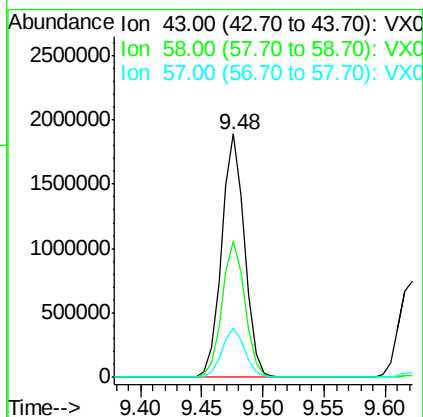
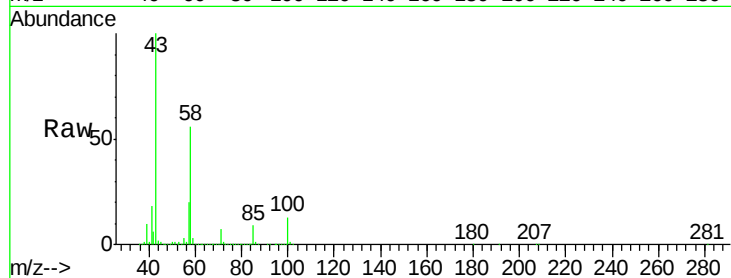




#59  
2-Hexanone  
Concen: 702.553 ug/l  
RT: 9.48 min Scan# 1376  
Delta R.T. 0.01 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

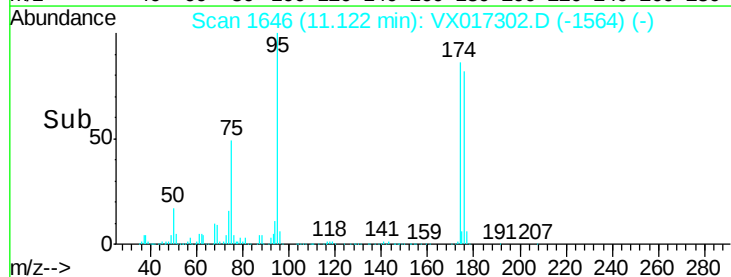
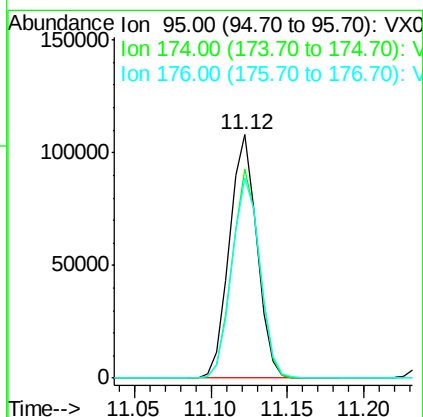
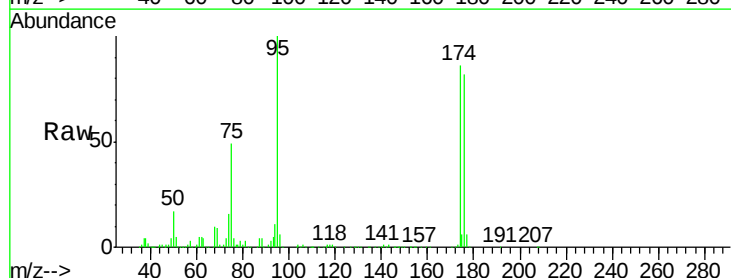
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

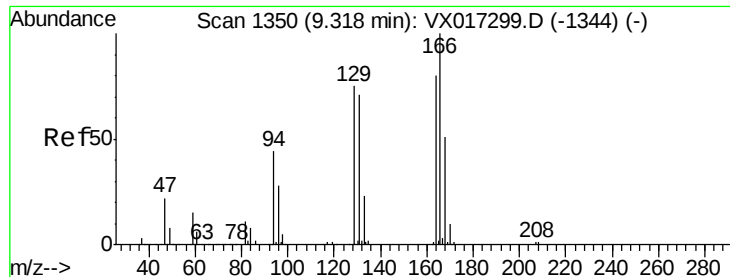
Tgt Ion: 43 Resp: 2450594  
Ion Ratio Lower Upper  
43 100  
58 55.7 43.4 65.0  
57 19.9 15.1 22.7



#60  
4-Bromofluorobenzene  
Concen: 30.690 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Tgt Ion: 95 Resp: 134719  
Ion Ratio Lower Upper  
95 100  
174 85.0 66.9 100.3  
176 83.5 65.5 98.3





#61

Tetrachloroethene

Concen: 129.831 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:164 Resp: 433819

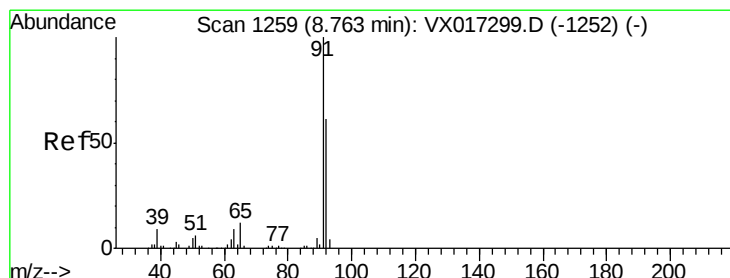
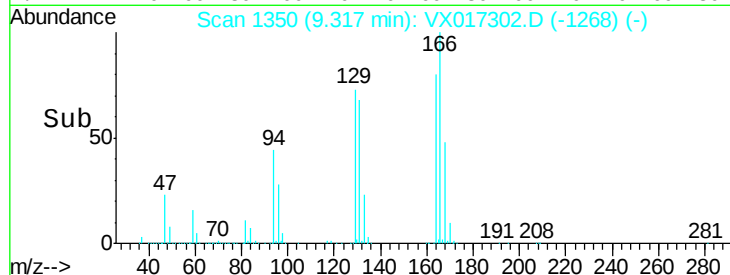
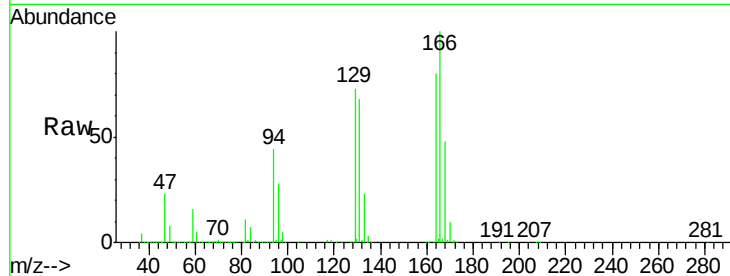
Ion Ratio Lower Upper

164 100

166 125.7 99.8 149.6

129 91.2 74.4 111.6

131 85.8 70.6 105.8



#62

Toluene

Concen: 127.456 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX017302.D

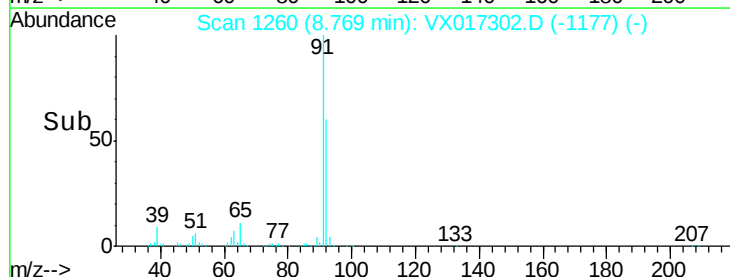
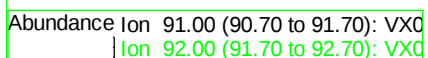
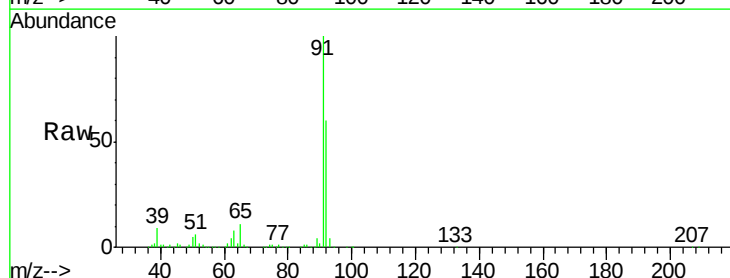
Acq: 09 Jul 2020 12:00

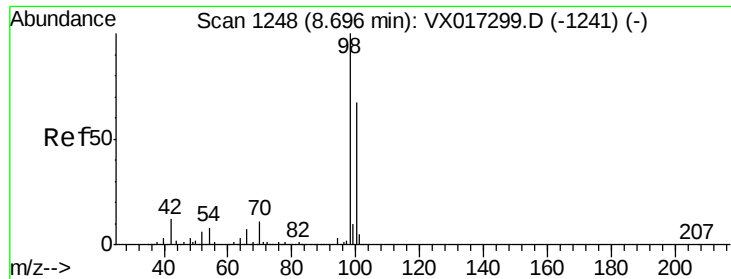
Tgt Ion: 91 Resp: 1767231

Ion Ratio Lower Upper

91 100

92 59.2 47.2 70.8

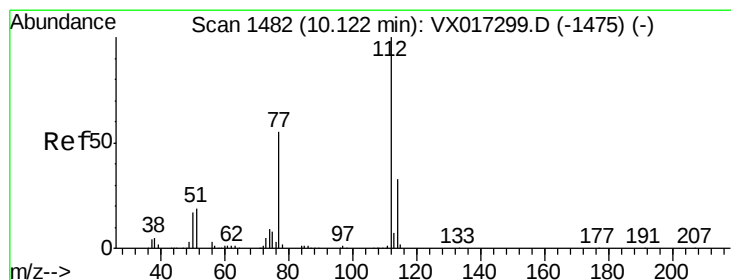
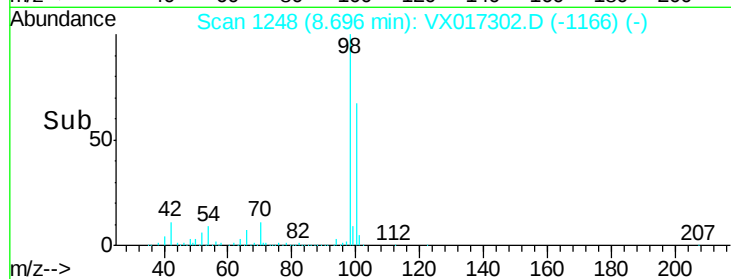
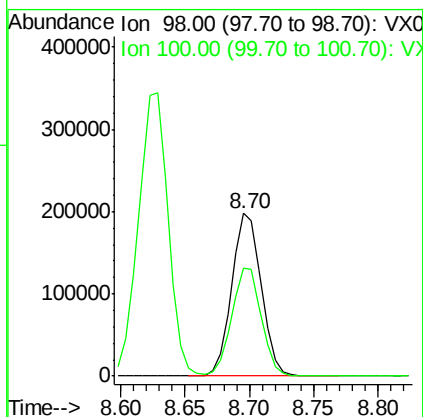
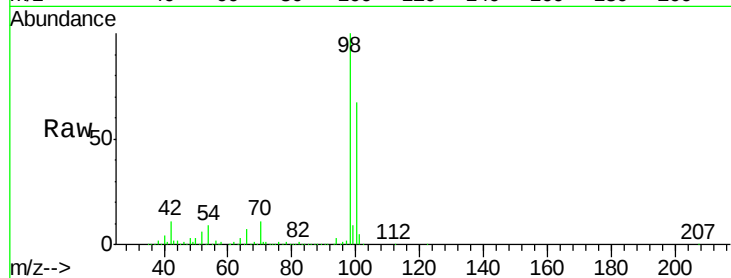




#63  
Toluene-d8  
Concen: 27.503 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

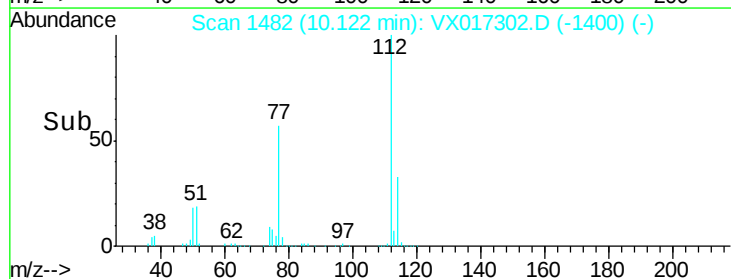
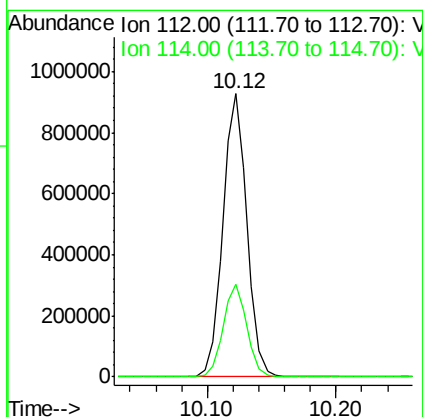
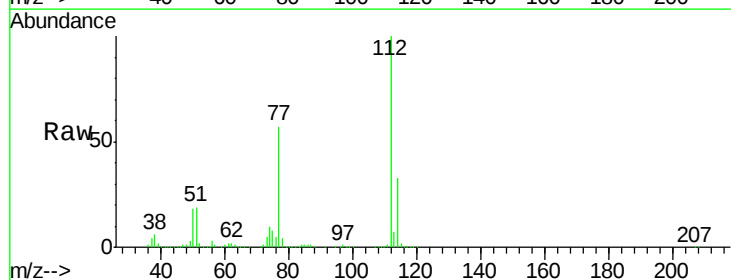
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

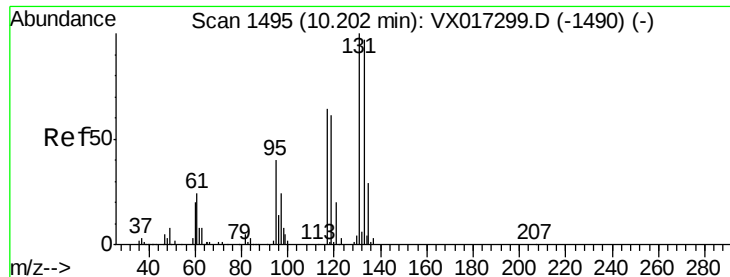
Tgt Ion: 98 Resp: 315548  
Ion Ratio Lower Upper  
98 100  
100 66.9 52.8 79.2



#64  
Chlorobenzene  
Concen: 138.114 ug/l  
RT: 10.12 min Scan# 1482  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Tgt Ion: 112 Resp: 1212099  
Ion Ratio Lower Upper  
112 100  
114 32.8 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 152.603 ug/l

RT: 10.21 min Scan# 1496

Delta R.T. 0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

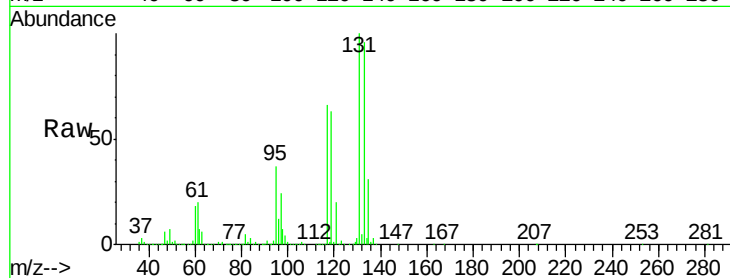
Tgt Ion:131 Resp: 508577

Ion Ratio Lower Upper

131 100

133 95.2 0.0 196.8

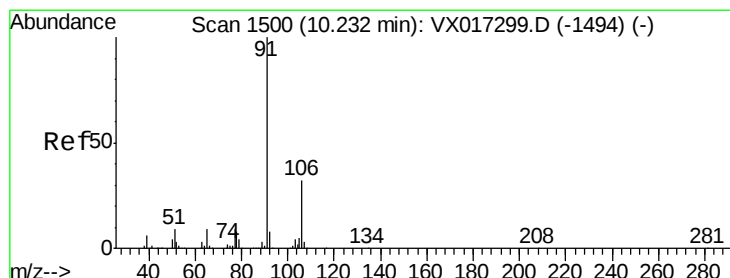
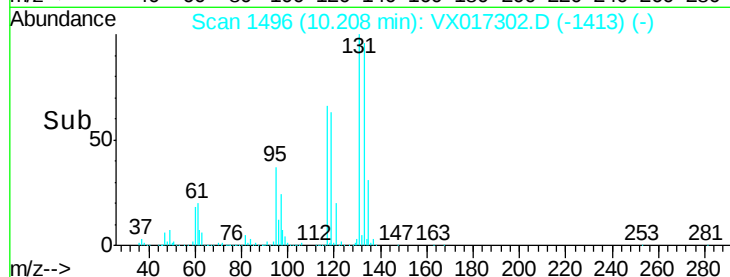
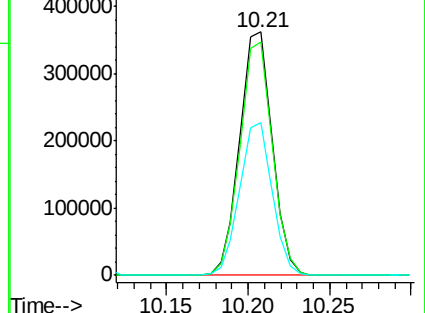
119 62.6 0.0 126.0



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 134.908 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX017302.D

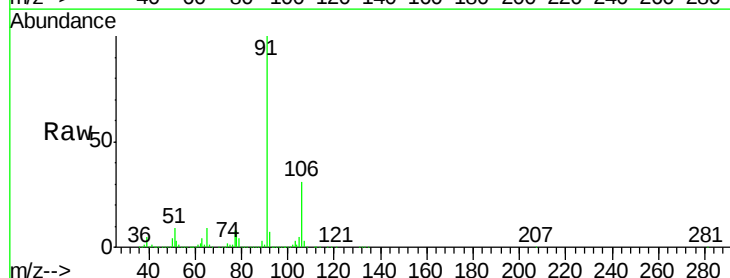
Acq: 09 Jul 2020 12:00

Tgt Ion: 91 Resp: 2075680

Ion Ratio Lower Upper

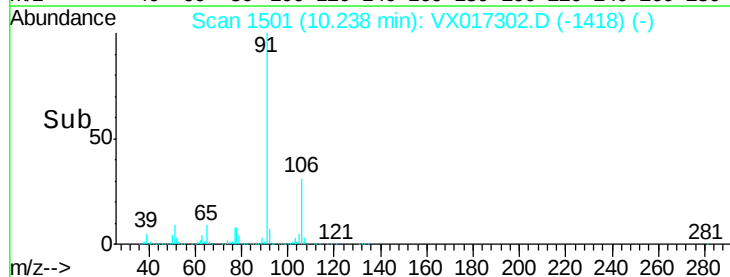
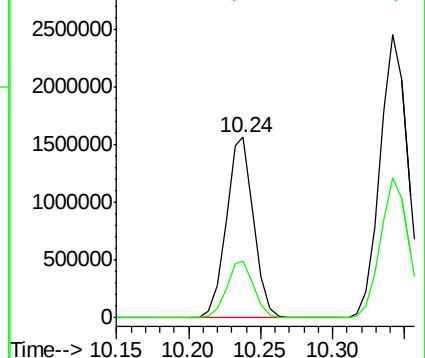
91 100

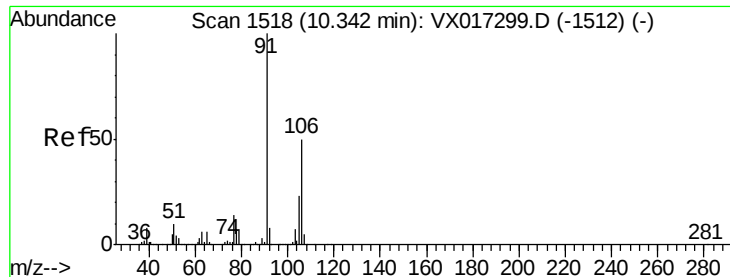
106 31.4 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 273.090 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

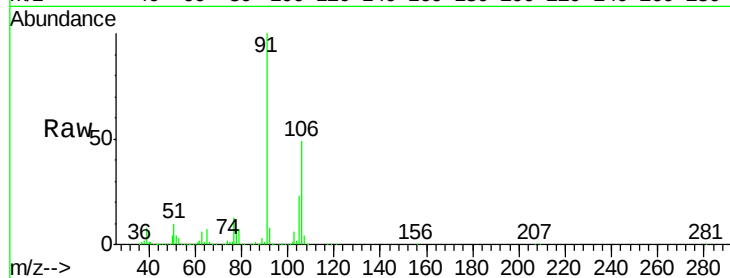
VSTDIC150

Tgt Ion:106 Resp: 1597743

Ion Ratio Lower Upper

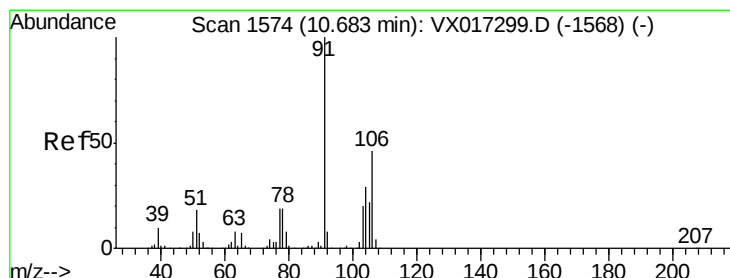
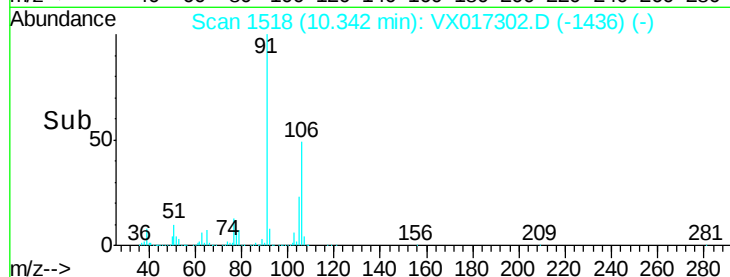
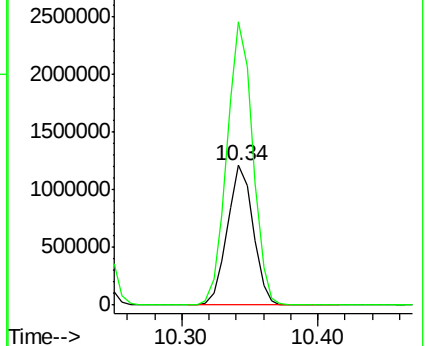
106 100

91 202.4 159.7 239.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 141.271 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX017302.D

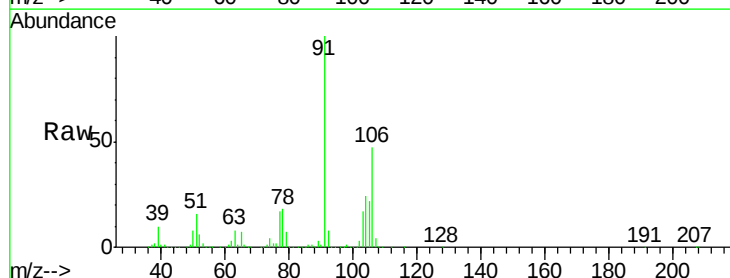
Acq: 09 Jul 2020 12:00

Tgt Ion:106 Resp: 786125

Ion Ratio Lower Upper

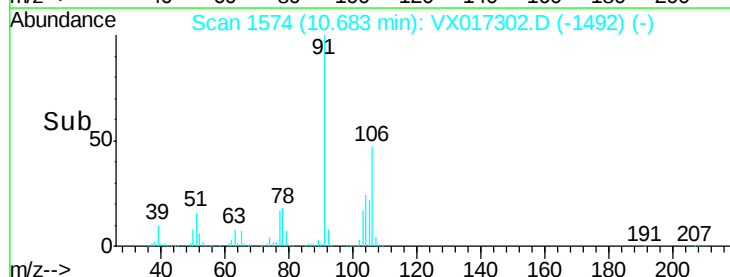
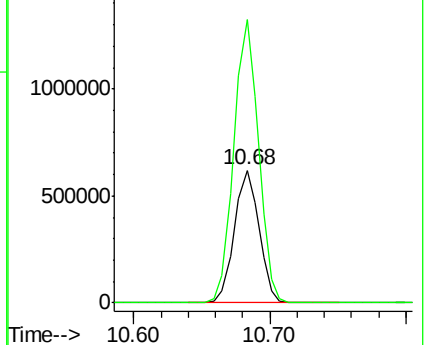
106 100

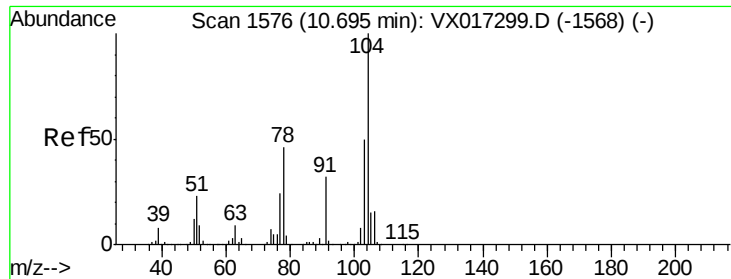
91 212.6 109.6 328.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#69

Styrene

Concen: 146.726 ug/l

RT: 10.70 min Scan# 1576

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

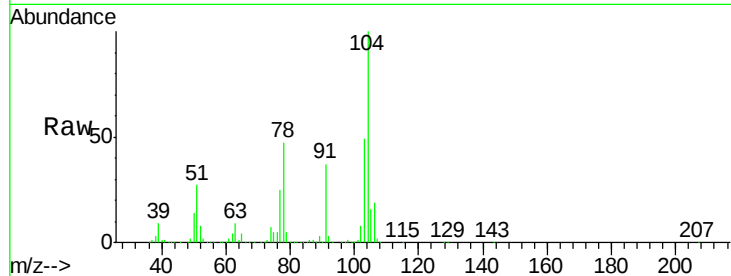
Tgt Ion:104 Resp: 1414786

Ion Ratio Lower Upper

104 100

78 51.1 40.8 61.2

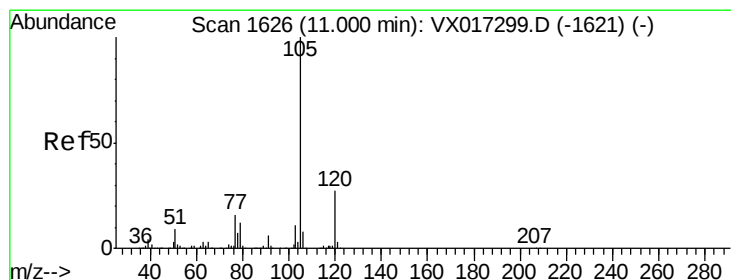
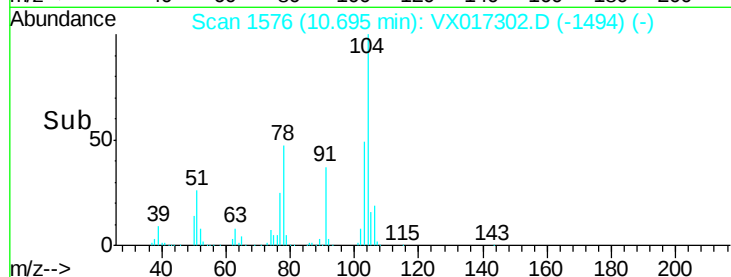
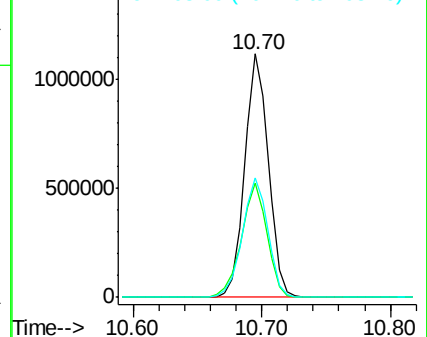
103 53.3 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#70

Isopropylbenzene

Concen: 134.018 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX017302.D

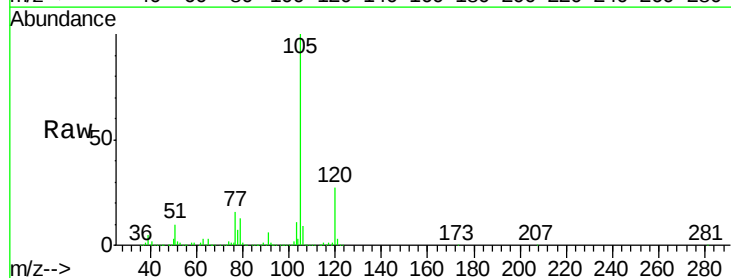
Acq: 09 Jul 2020 12:00

Tgt Ion:105 Resp: 2044333

Ion Ratio Lower Upper

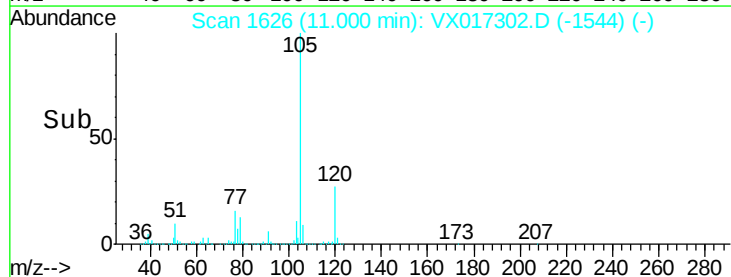
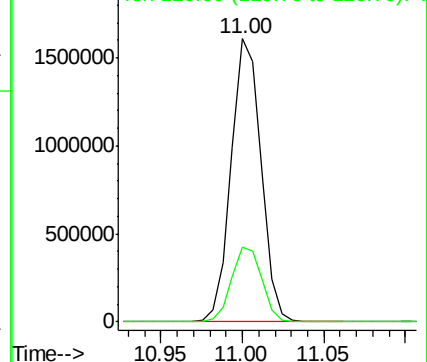
105 100

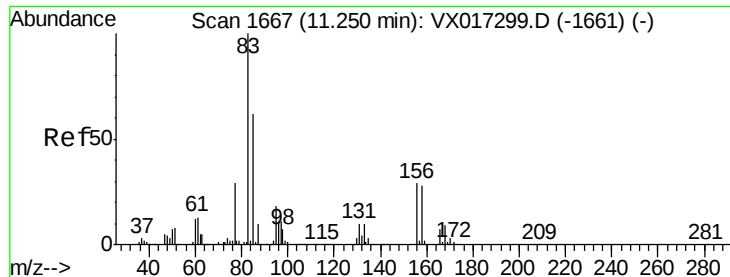
120 26.9 19.3 35.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#71

1,1,2,2-Tetrachloroethane

Concen: 141.432 ug/l

RT: 11.26 min Scan# 1668

Delta R.T. 0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

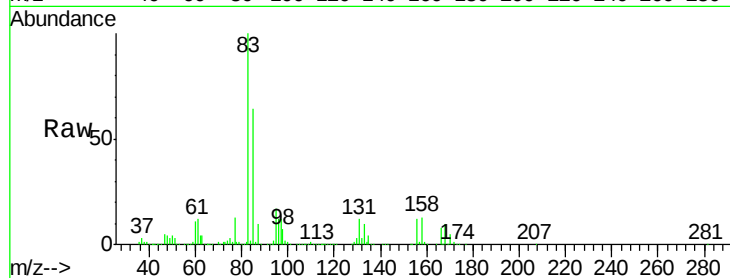
Tgt Ion: 83 Resp: 664935

Ion Ratio Lower Upper

83 100

131 11.5 5.5 16.5

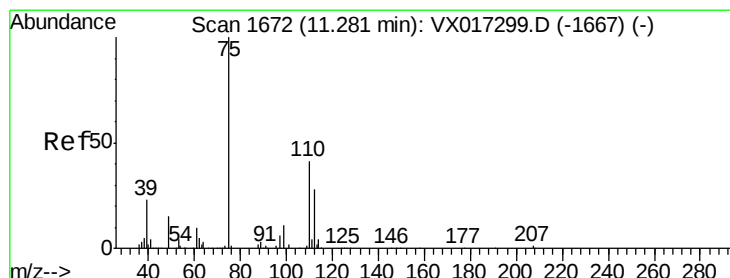
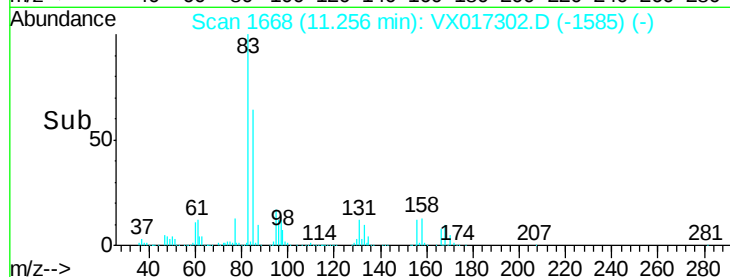
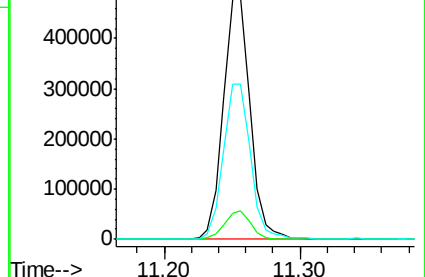
85 64.5 31.5 94.5



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: 188.260 ug/l

RT: 11.28 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VX017302.D

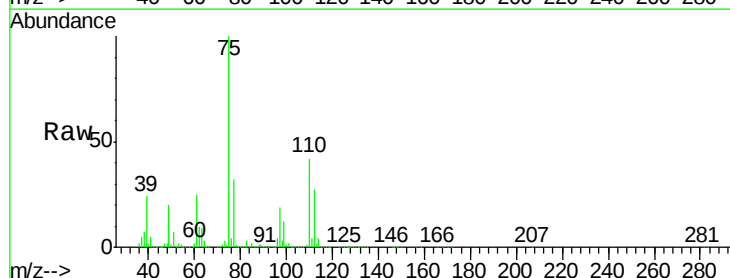
Acq: 09 Jul 2020 12:00

Tgt Ion: 75 Resp: 850791

Ion Ratio Lower Upper

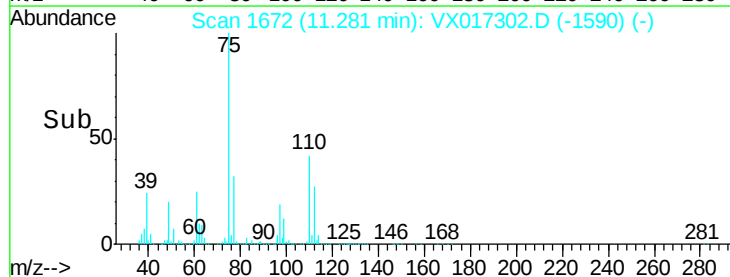
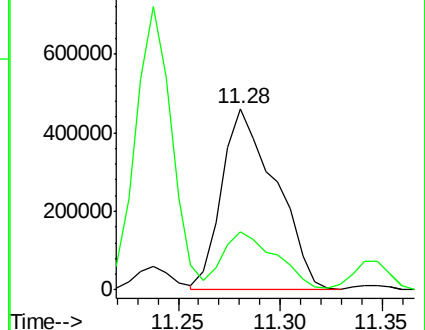
75 100

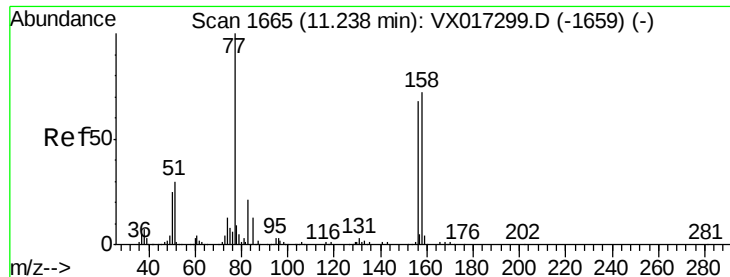
77 31.5 0.0 72.2



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#73

Bromobenzene

Concen: 154.033 ug/l

RT: 11.24 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

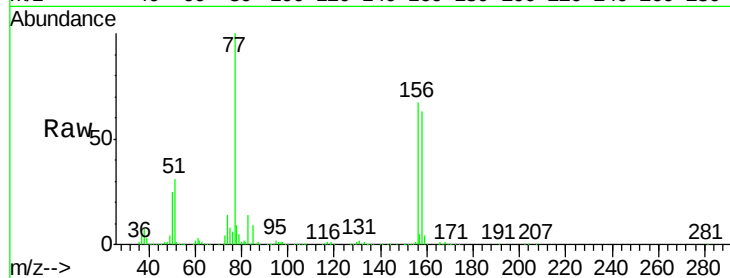
Tgt Ion:156 Resp: 601362

Ion Ratio Lower Upper

156 100

77 147.0 0.0 299.2

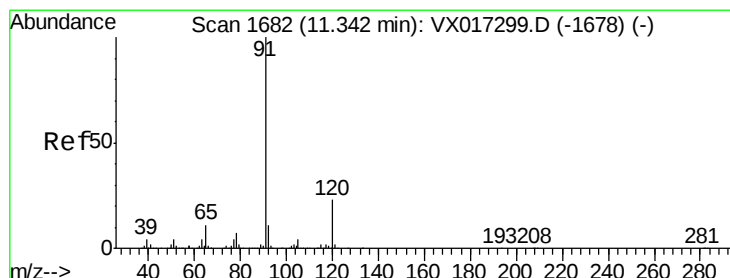
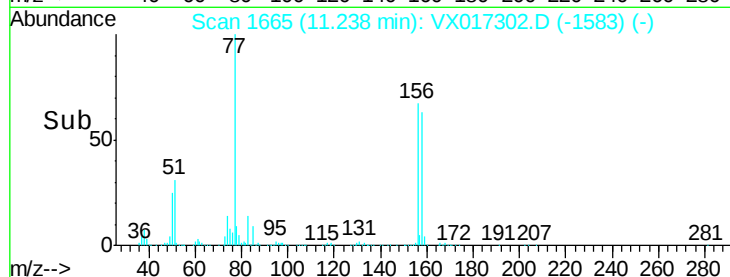
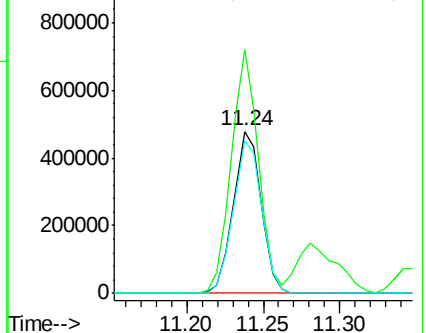
158 96.4 0.0 199.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 131.287 ug/l

RT: 11.35 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VX017302.D

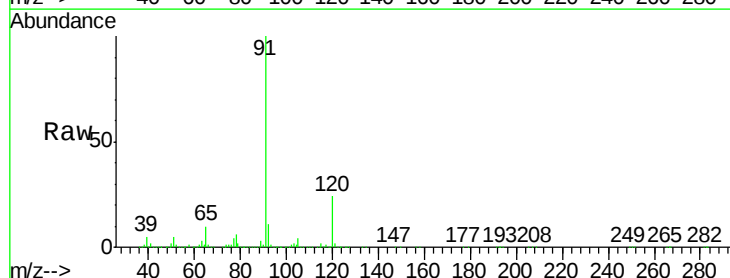
Acq: 09 Jul 2020 12:00

Tgt Ion: 91 Resp: 2362764

Ion Ratio Lower Upper

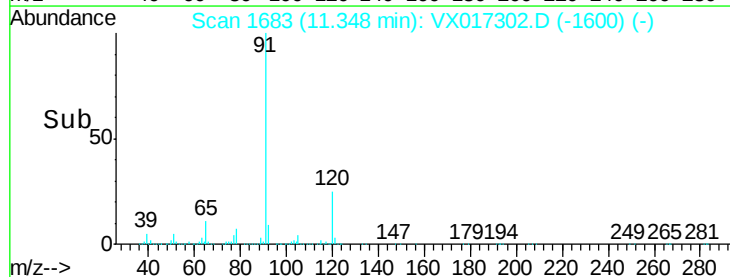
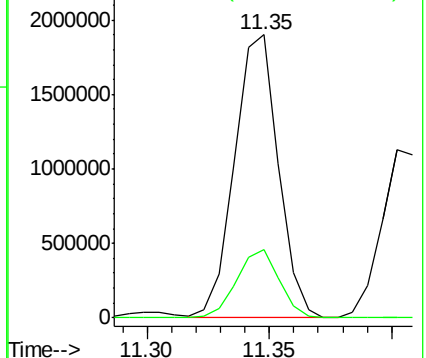
91 100

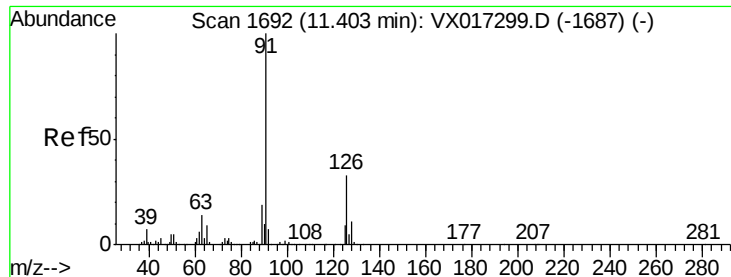
120 23.6 0.0 48.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 137.124 ug/l

RT: 11.40 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

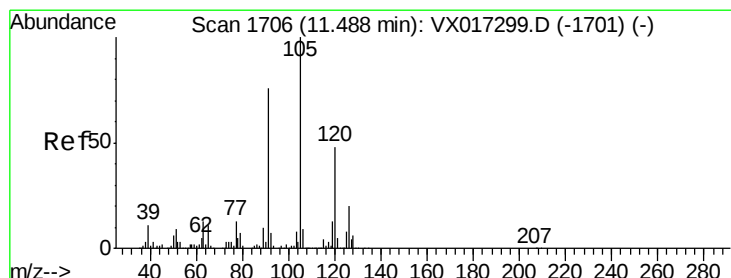
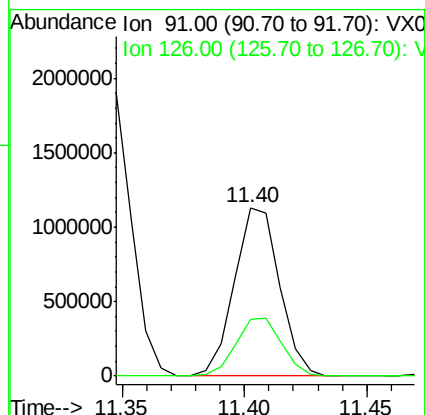
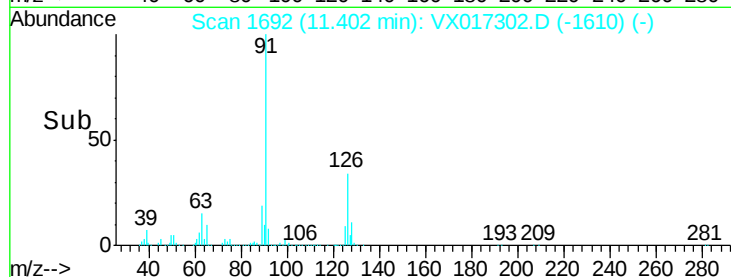
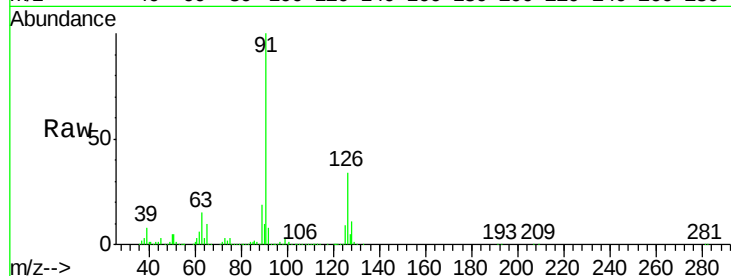
VSTDIC150

Tgt Ion: 91 Resp: 1456606

Ion Ratio Lower Upper

91 100

126 34.9 0.0 68.4



#76

1,3,5-Trimethylbenzene

Concen: 139.209 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX017302.D

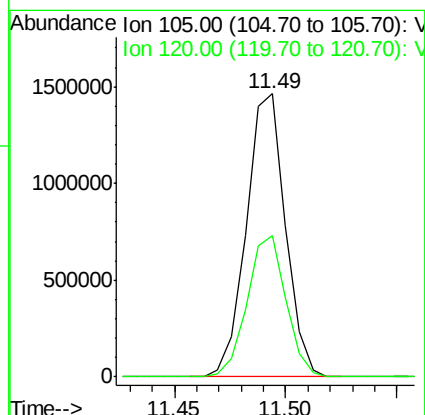
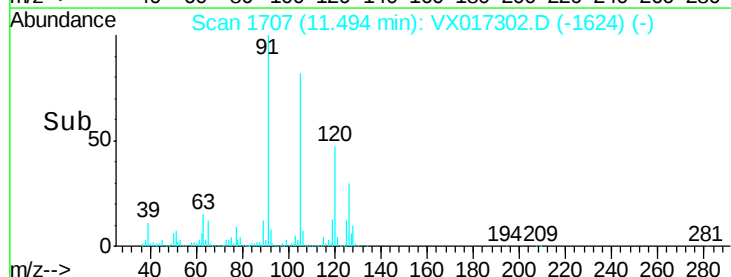
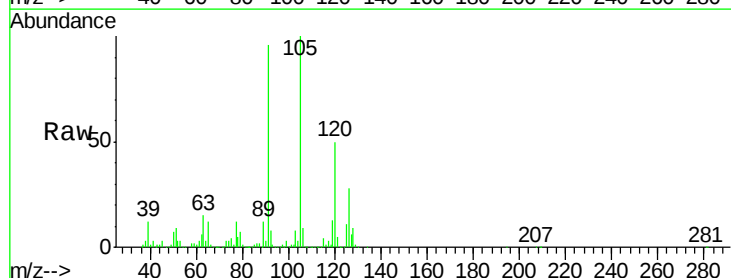
Acq: 09 Jul 2020 12:00

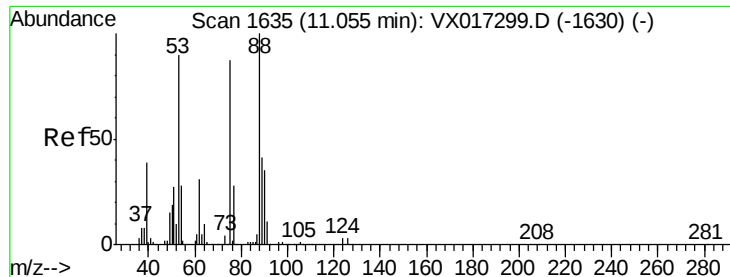
Tgt Ion: 105 Resp: 1789004

Ion Ratio Lower Upper

105 100

120 49.4 0.0 98.8





#77

t-1,4-Dichloro-2-butene

Concen: 146.920 ug/l

RT: 11.06 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

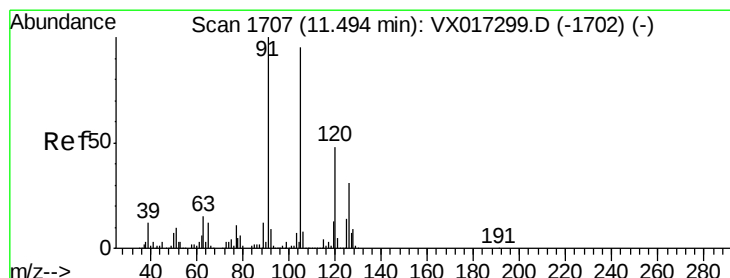
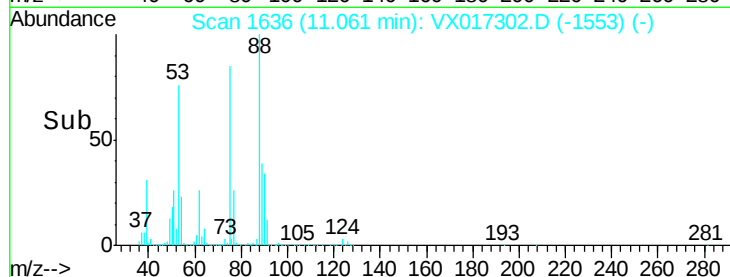
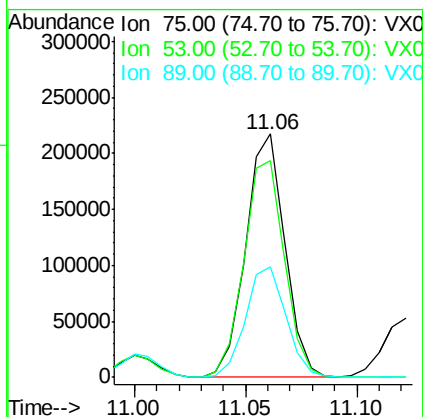
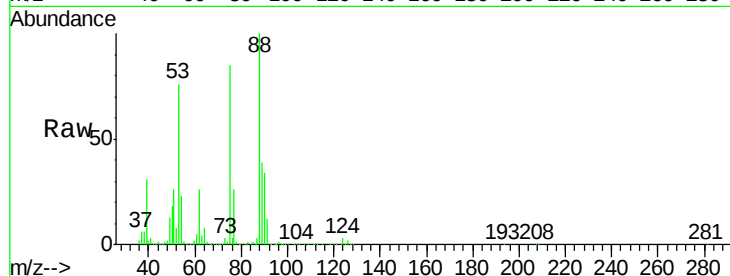
Tgt Ion: 75 Resp: 267142

Ion Ratio Lower Upper

75 100

53 89.1 52.1 156.3

89 45.3 23.7 71.1



#78

4-Chlorotoluene

Concen: 138.206 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX017302.D

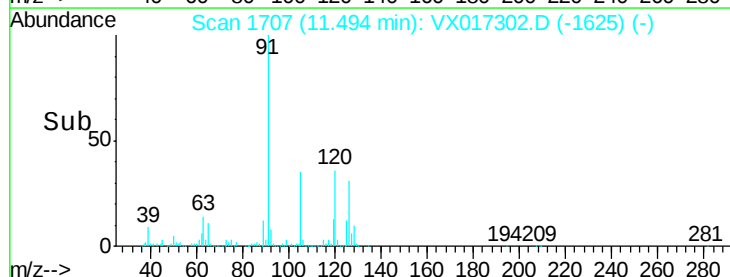
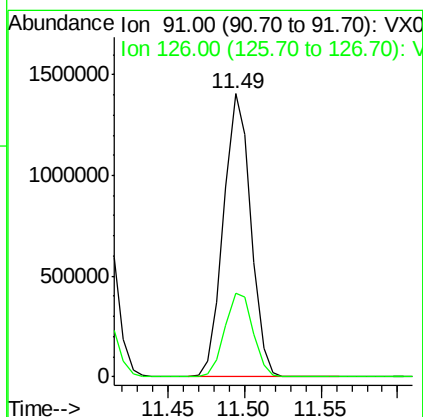
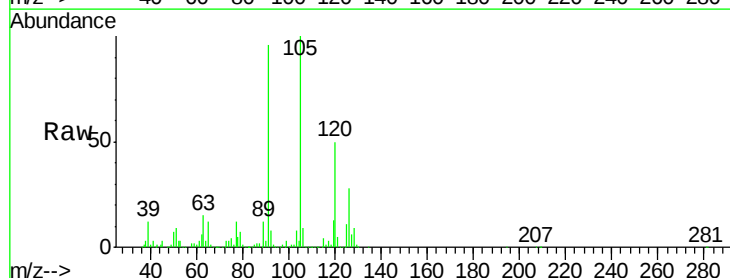
Acq: 09 Jul 2020 12:00

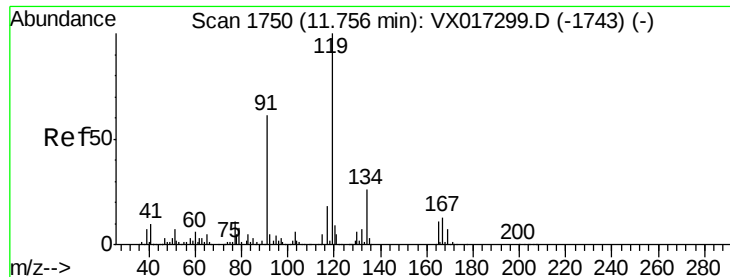
Tgt Ion: 91 Resp: 1734883

Ion Ratio Lower Upper

91 100

126 30.5 0.0 61.2

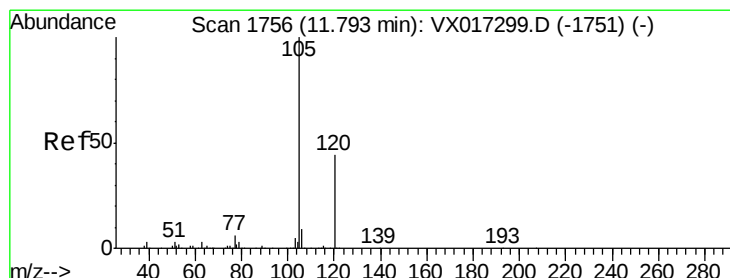
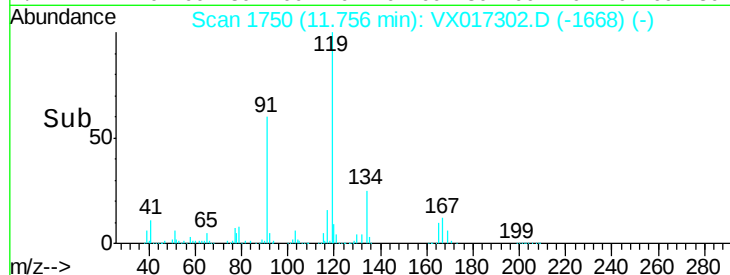
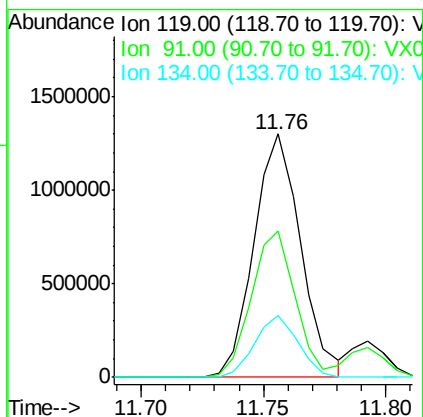
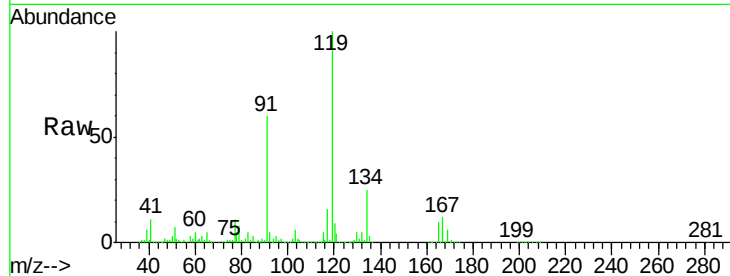




#79  
tert-butylbenzene  
Concen: 140.378 ug/l  
RT: 11.76 min Scan# 1750  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

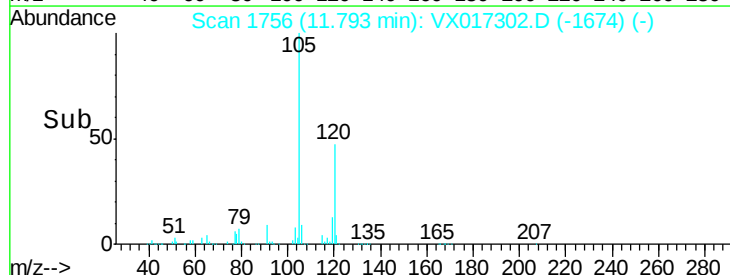
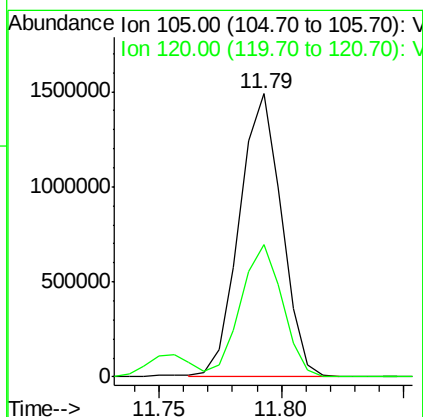
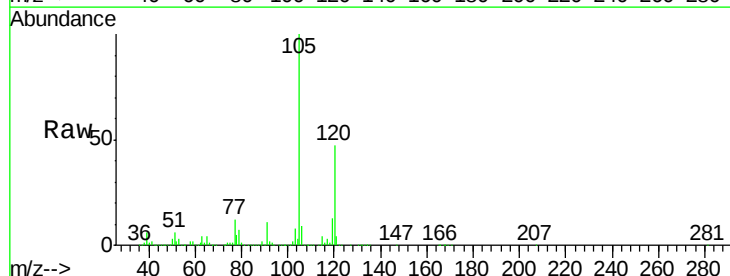
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

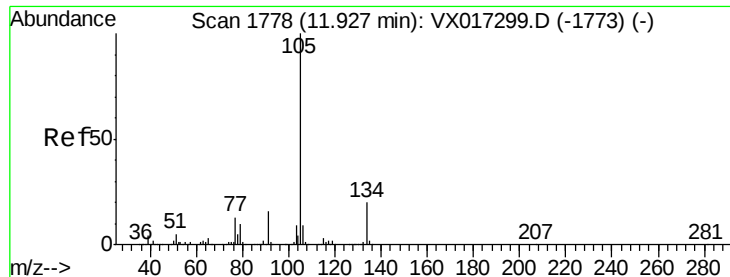
Tgt Ion:119 Resp: 1725130  
Ion Ratio Lower Upper  
119 100  
91 56.4 0.0 113.6  
134 23.8 0.0 48.0



#80  
1,2,4-Trimethylbenzene  
Concen: 138.984 ug/l  
RT: 11.79 min Scan# 1756  
Delta R.T. -0.00 min  
Lab File: VX017302.D  
Acq: 09 Jul 2020 12:00

Tgt Ion:105 Resp: 1791981  
Ion Ratio Lower Upper  
105 100  
120 46.3 0.0 93.6

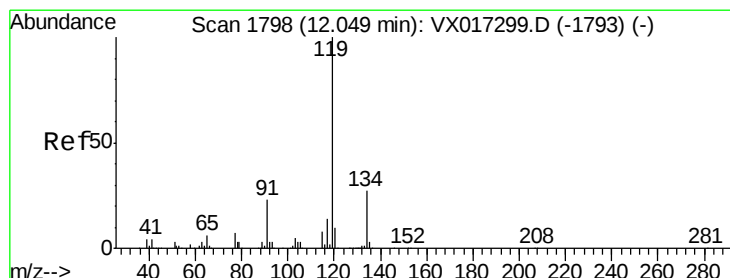
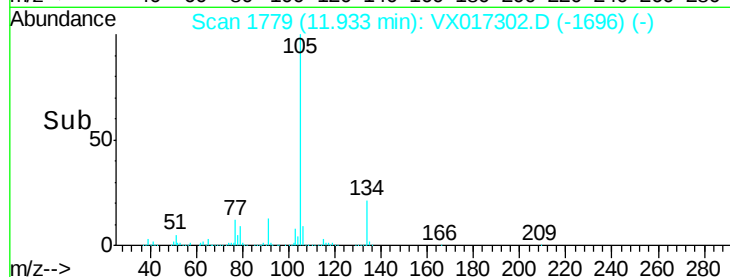
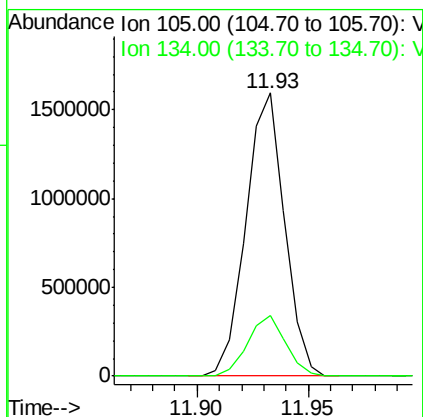
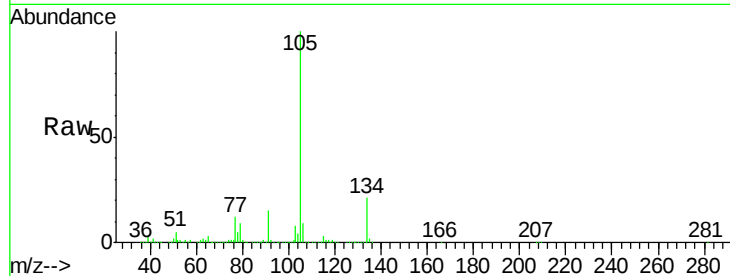




#81  
 sec-Butylbenzene  
 Concen: 130.901 ug/l  
 RT: 11.93 min Scan# 1779  
 Delta R.T. 0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

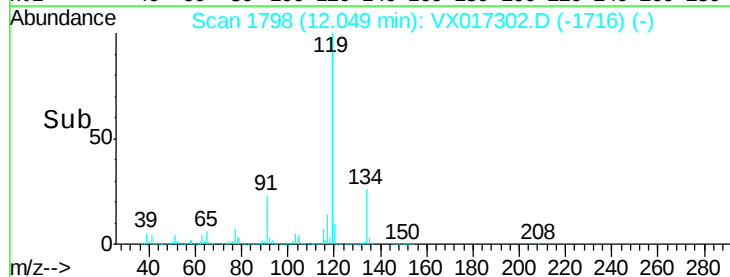
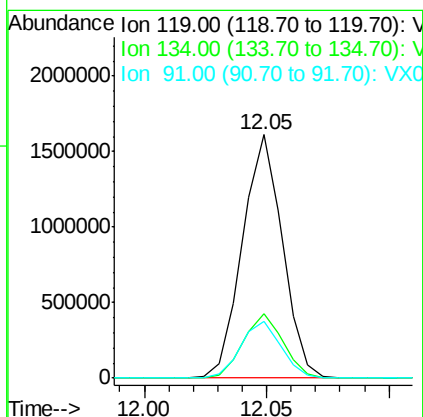
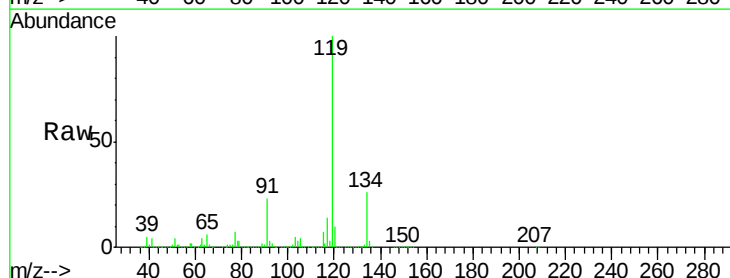
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

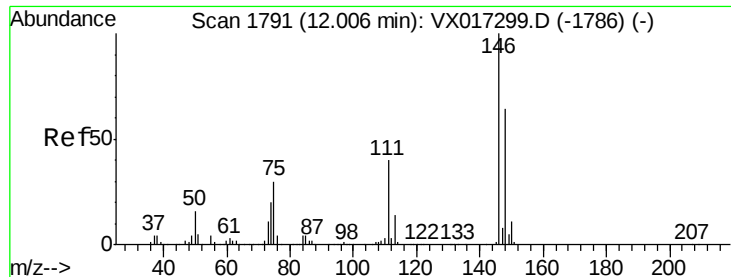
Tgt Ion:105 Resp: 1936549  
 Ion Ratio Lower Upper  
 105 100  
 134 21.1 0.0 41.8



#82  
 p-Isopropyltoluene  
 Concen: 136.566 ug/l  
 RT: 12.05 min Scan# 1798  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Tgt Ion:119 Resp: 1837712  
 Ion Ratio Lower Upper  
 119 100  
 134 26.5 0.0 53.6  
 91 23.6 0.0 48.0

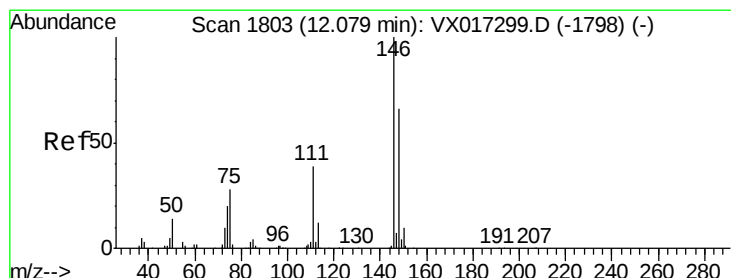
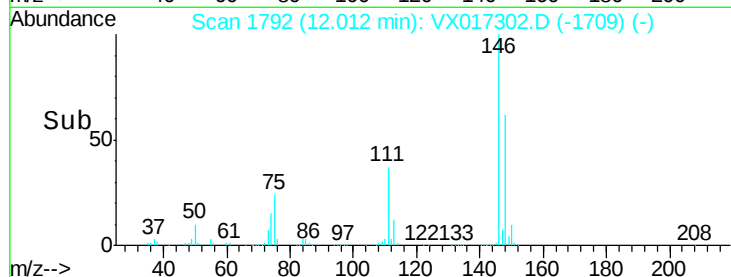
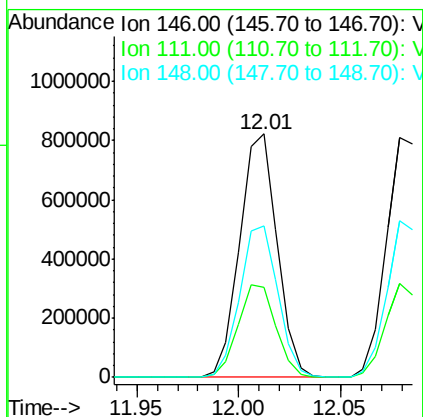
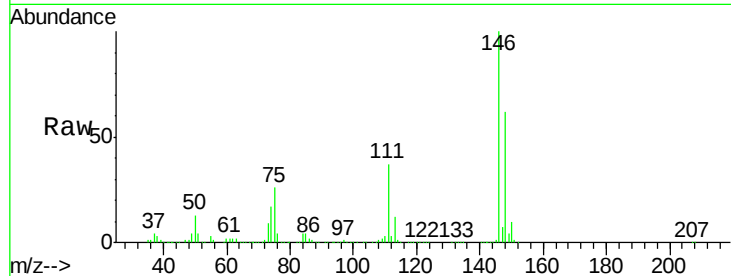




#83  
 1,3-Dichlorobenzene  
 Concen: 149.293 ug/l  
 RT: 12.01 min Scan# 1792  
 Delta R.T. 0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

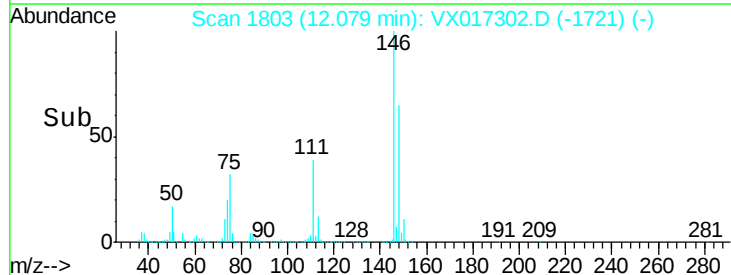
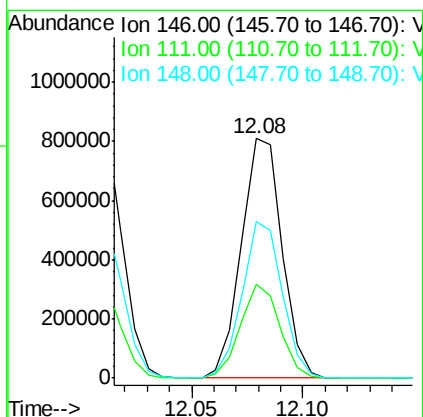
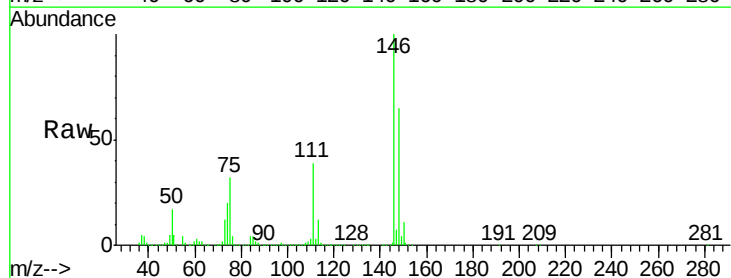
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 VSTDIC150

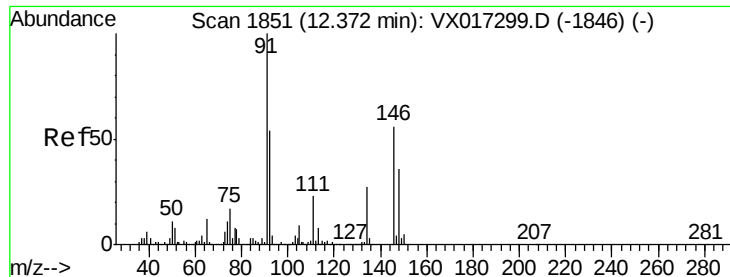
Tgt Ion:146 Resp: 1047129  
 Ion Ratio Lower Upper  
 146 100  
 111 38.8 19.5 58.5  
 148 63.2 31.8 95.3



#84  
 1,4-Dichlorobenzene  
 Concen: 147.404 ug/l  
 RT: 12.08 min Scan# 1803  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Tgt Ion:146 Resp: 1038432  
 Ion Ratio Lower Upper  
 146 100  
 111 37.9 19.1 57.3  
 148 63.8 32.6 97.8





#85

n-Butylbenzene

Concen: 125.322 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

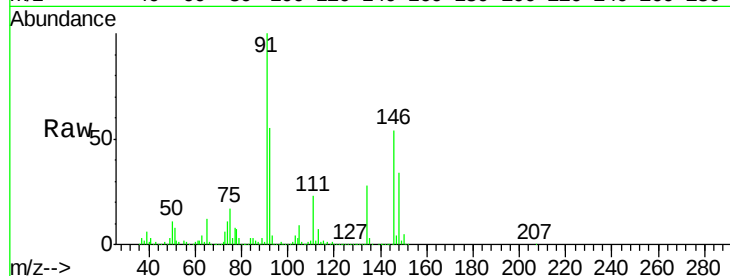
Tgt Ion: 91 Resp: 1538542

Ion Ratio Lower Upper

91 100

92 54.3 0.0 108.2

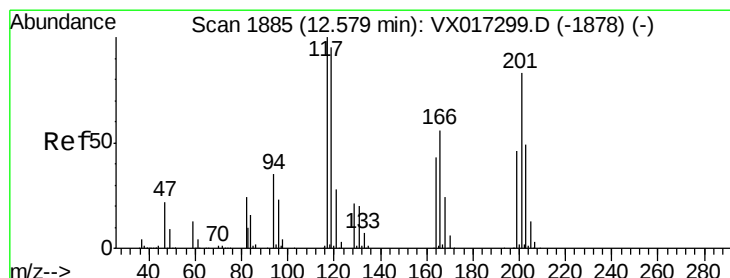
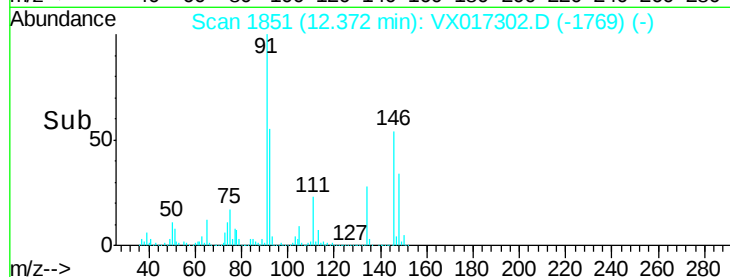
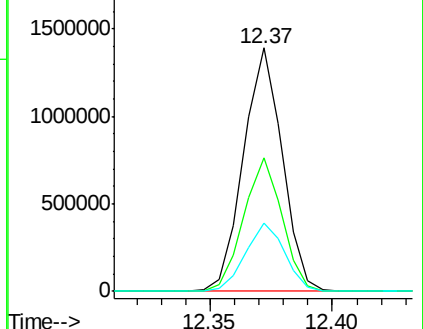
134 28.4 0.0 54.2



Abundance Ion 91.00 (90.70 to 91.70): VX017299.D (-1846) (-)

Ion 92.00 (91.70 to 92.70): VX017299.D (-1846) (-)

Ion 134.00 (133.70 to 134.70): VX017299.D (-1846) (-)



#86

Hexachloroethane

Concen: 137.383 ug/l

RT: 12.58 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX017302.D

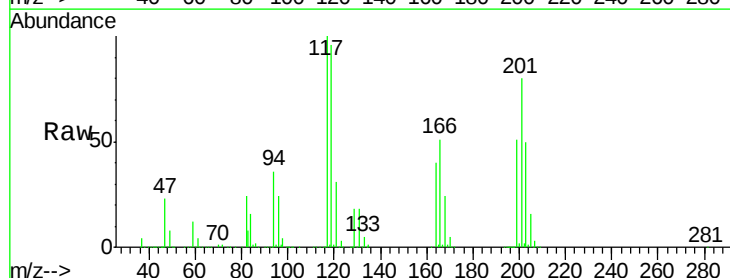
Acq: 09 Jul 2020 12:00

Tgt Ion: 117 Resp: 359596

Ion Ratio Lower Upper

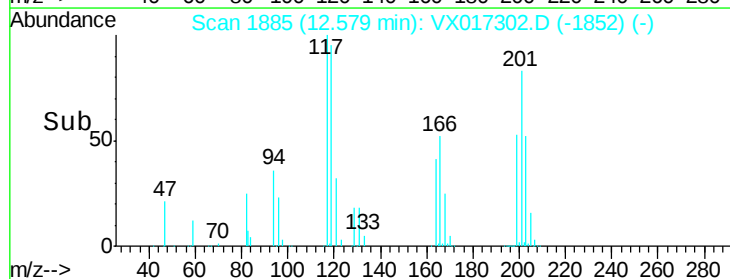
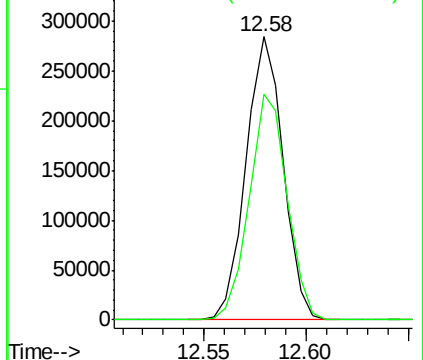
117 100

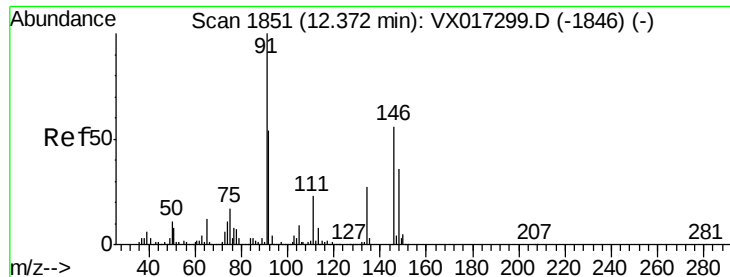
201 81.1 41.0 123.0



Abundance Ion 117.00 (116.70 to 117.70): VX017299.D (-1878) (-)

Ion 201.00 (200.70 to 201.70): VX017299.D (-1878) (-)

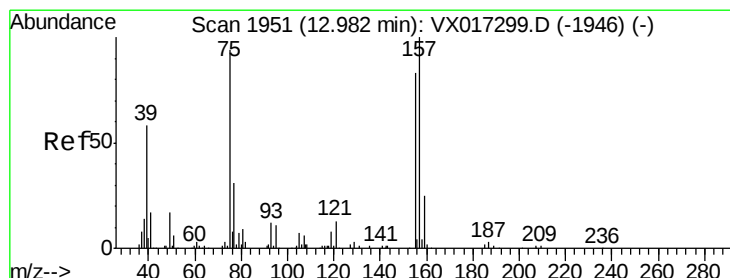
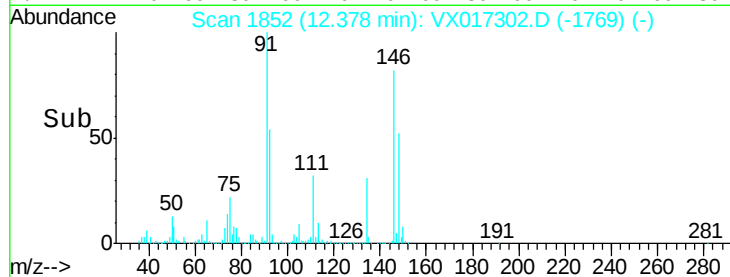
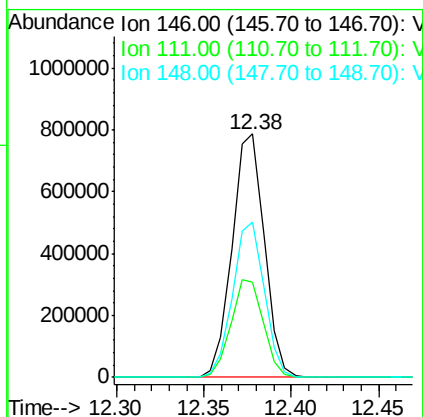
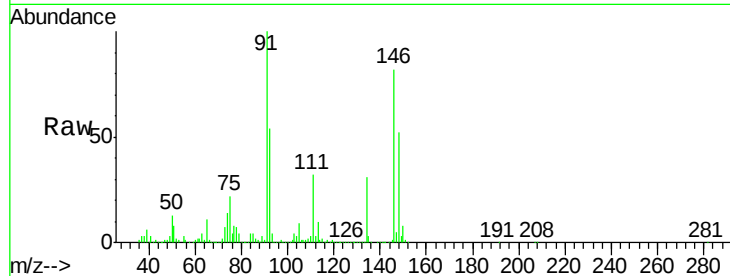




#87  
 1,2-Dichlorobenzene  
 Concen: 153.325 ug/l  
 RT: 12.38 min Scan# 1852  
 Delta R.T. 0.01 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

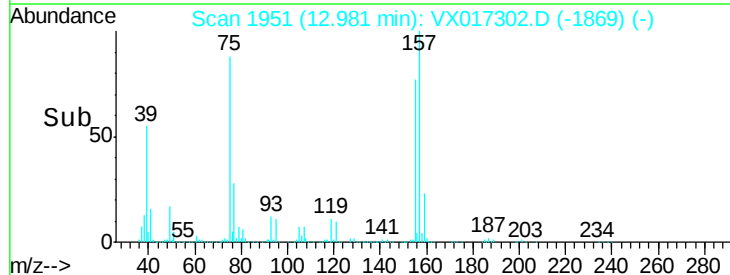
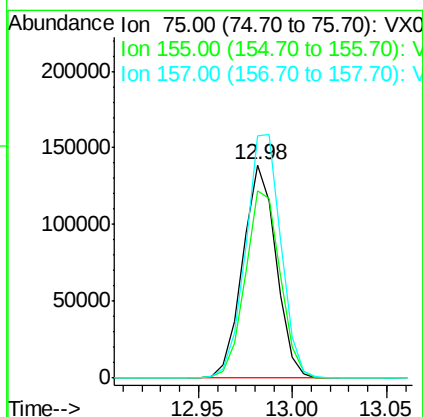
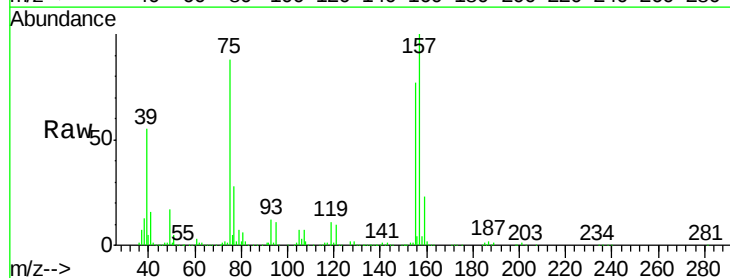
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

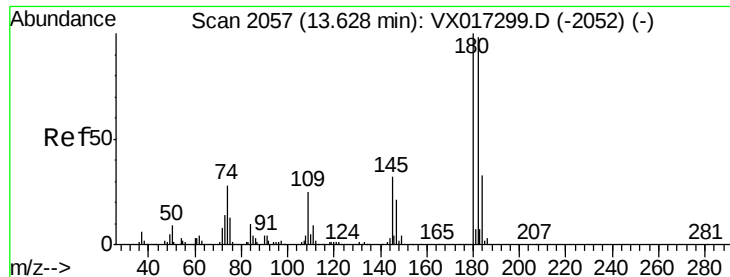
Tgt Ion:146 Resp: 1009011  
 Ion Ratio Lower Upper  
 146 100  
 111 40.4 20.6 61.9  
 148 62.9 31.6 94.8



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 158.084 ug/l  
 RT: 12.98 min Scan# 1951  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

Tgt Ion: 75 Resp: 170170  
 Ion Ratio Lower Upper  
 75 100  
 155 92.0 73.4 110.0  
 157 120.8 90.5 135.7

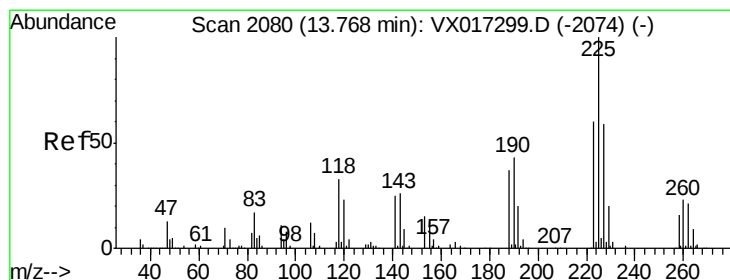
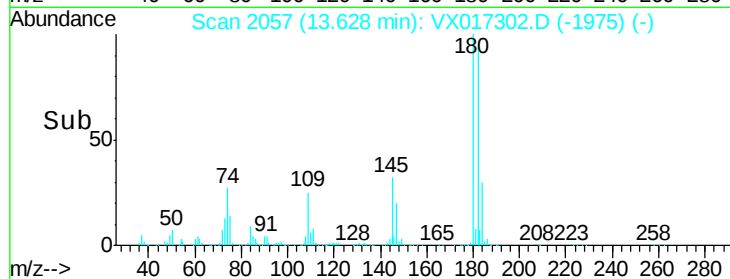
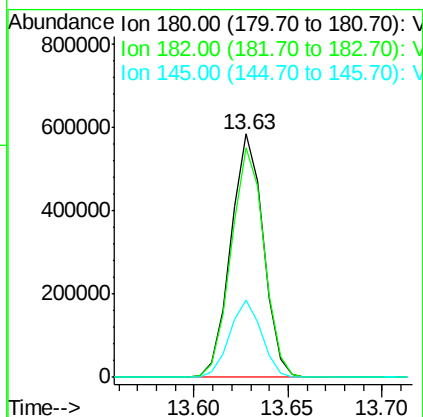
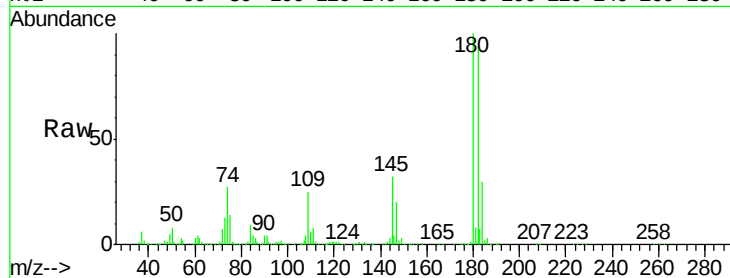




#89  
 1,2,4-Trichlorobenzene  
 Concen: 156.587 ug/l  
 RT: 13.63 min Scan# 2057  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

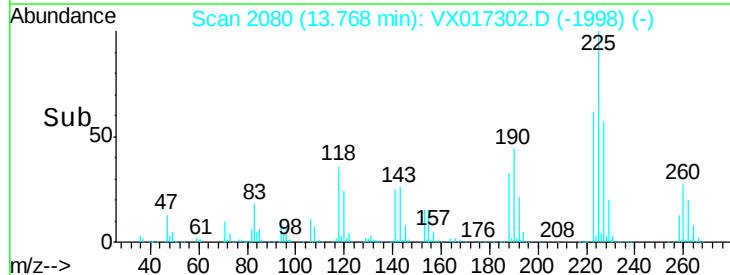
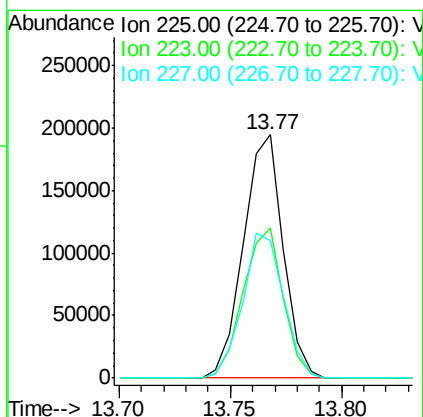
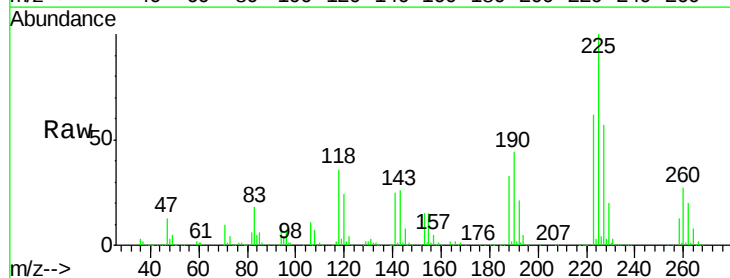
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

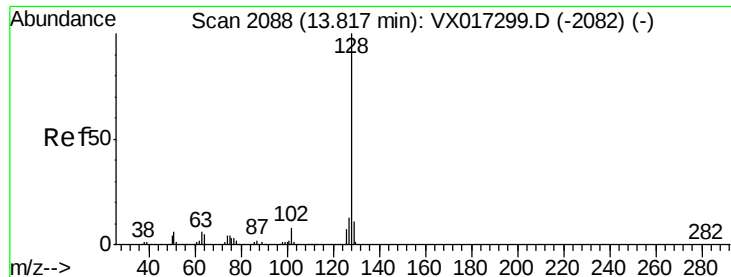
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 77.8  | 116.8 |
| 145     | 31.1  | 25.0  | 37.4  |



#90  
 Hexachlorobutadiene  
 Concen: 140.305 ug/l  
 RT: 13.77 min Scan# 2080  
 Delta R.T. -0.00 min  
 Lab File: VX017302.D  
 Acq: 09 Jul 2020 12:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.2  | 0.0   | 129.0 |
| 227     | 61.5  | 0.0   | 124.4 |





#91

Naphthalene

Concen: 159.493 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

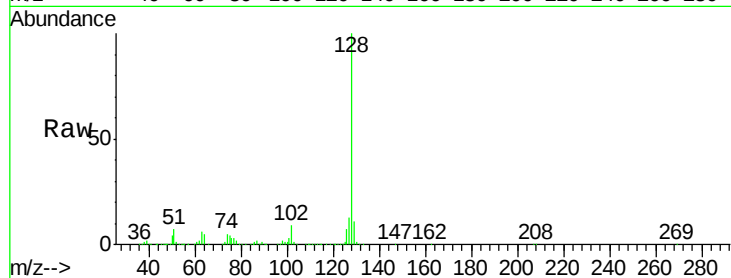
Tgt Ion:128 Resp: 2285891

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

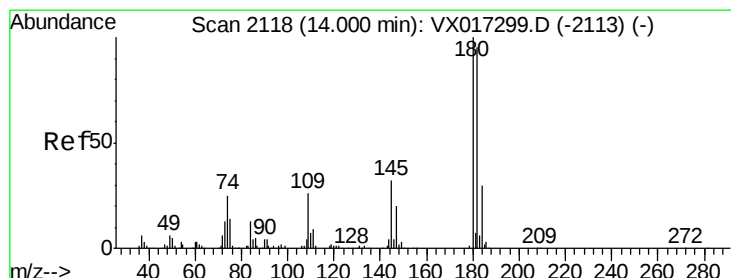
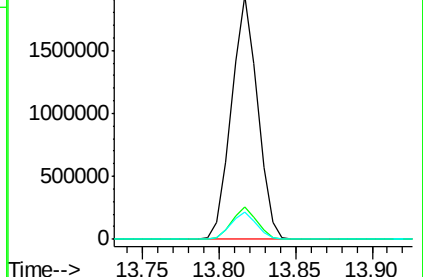
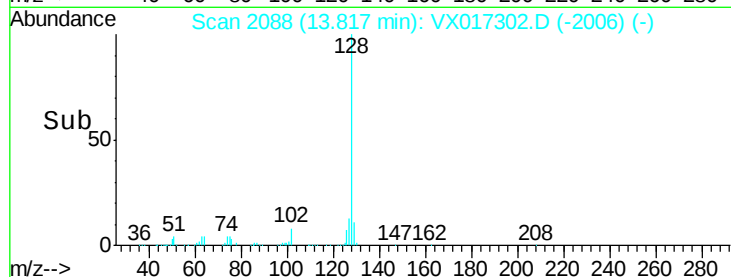
129 11.1 9.0 13.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 158.068 ug/l

RT: 14.00 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VX017302.D

Acq: 09 Jul 2020 12:00

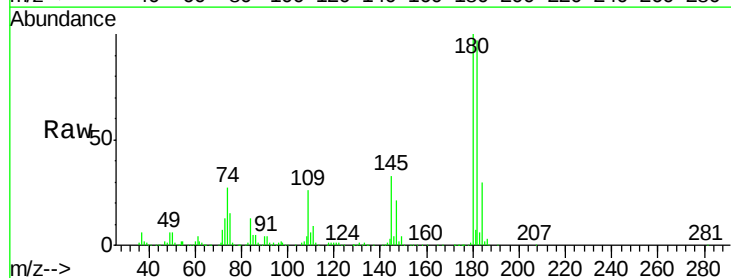
Tgt Ion:180 Resp: 690257

Ion Ratio Lower Upper

180 100

182 95.2 0.0 185.6

145 32.6 0.0 63.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

