

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW031522\  
 Data File : VW022330.D  
 Acq On : 15 Mar 2022 11:44  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025585

Quant Time: Mar 16 05:25:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM022322SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Tue Mar 15 01:03:29 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.841  | 114   | 130730   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.628 | 117   | 125659   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.560 | 152   | 77198    | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.349  | 65    | 40561    | 23.788   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 95.160%  |
| 7) Chloroethane-d5            | 2.879  | 69    | 31856    | 23.745   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 94.960%  |
| 11) 1,1-Dichloroethene-d2     | 4.013  | 63    | 54741    | 20.964   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 83.840%  |
| 21) 2-Butanone-d5             | 7.073  | 46    | 16138    | 56.290   | ug/L   | -0.01    |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 112.580% |
| 24) Chloroform-d              | 7.647  | 84    | 77462    | 26.557   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 106.240% |
| 26) 1,2-Dichloroethane-d4     | 8.305  | 65    | 38662    | 25.500   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 102.000% |
| 32) Benzene-d6                | 8.268  | 84    | 138090   | 23.612   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 94.440%  |
| 36) 1,2-Dichloropropane-d6    | 9.268  | 67    | 39761    | 24.482   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 97.920%  |
| 41) Toluene-d8                | 10.323 | 98    | 136490   | 23.476   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 93.920%  |
| 43) trans-1,3-Dichloroprop... | 10.579 | 79    | 17236    | 23.935   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 95.760%  |
| 47) 2-Hexanone-d5             | 10.920 | 63    | 13009    | 48.701   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 97.400%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.688 | 84    | 39885    | 27.983   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 111.920% |
| 66) 1,2-Dichlorobenzene-d4    | 13.853 | 152   | 58721    | 23.682   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 94.720%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.007  | 85    | 8189     | 22.414   | ug/L   | 95       |
| 3) Chloromethane              | 2.208  | 50    | 29602    | 23.645   | ug/L   | 97       |
| 5) Vinyl chloride             | 2.361  | 62    | 46368    | 24.649   | ug/L   | 99       |
| 6) Bromomethane               | 2.775  | 94    | 30707    | 23.373   | ug/L   | 93       |
| 8) Chloroethane               | 2.916  | 64    | 26982    | 25.533   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 3.257  | 101   | 27714    | 21.700   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 4.056  | 101   | 39708    | 25.484   | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 4.031  | 96    | 31756    | 23.515   | ug/L   | 91       |
| 13) Acetone                   | 4.123  | 43    | 15324    | 65.444   | ug/L   | 67       |
| 14) Carbon disulfide          | 4.373  | 76    | 59029    | 16.860   | ug/L   | 100      |
| 15) Methyl Acetate            | 4.665  | 43    | 13157    | 24.959   | ug/L   | 99       |
| 16) Methylene chloride        | 4.909  | 84    | 37961    | 23.657   | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 5.415  | 96    | 34365    | 23.168   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 5.421  | 73    | 52151    | 25.843   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 6.214  | 63    | 65947    | 27.463   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 7.171  | 96    | 41792    | 26.010   | ug/L   | 93       |
| 22) 2-Butanone                | 7.171  | 43    | 20712    | 61.576   | ug/L   | 97       |
| 23) Bromochloromethane        | 7.512  | 128   | 19903    | 25.357   | ug/L   | 92       |
| 25) Chloroform                | 7.671  | 83    | 78988    | 28.191   | ug/L   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW031522\  
 Data File : VW022330.D  
 Acq On : 15 Mar 2022 11:44  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025585

Quant Time: Mar 16 05:25:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM022322SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Tue Mar 15 01:03:29 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 8.396  | 62   | 45551    | 26.395 | ug/L   | 99       |
| 29) Cyclohexane               | 7.951  | 56   | 45464    | 21.741 | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane     | 7.872  | 97   | 65714    | 25.993 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 8.067  | 117  | 61979    | 25.795 | ug/L   | 100      |
| 33) Benzene                   | 8.323  | 78   | 154599   | 25.447 | ug/L   | 100      |
| 34) Trichloroethene           | 9.091  | 95   | 42678    | 24.535 | ug/L   | 94       |
| 35) Methylcyclohexane         | 9.335  | 83   | 61403    | 22.821 | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 9.366  | 63   | 37910    | 26.747 | ug/L   | 100      |
| 38) Bromodichloromethane      | 9.646  | 83   | 57783    | 28.429 | ug/L   | 93       |
| 39) cis-1,3-Dichloropropene   | 10.067 | 75   | 59017    | 27.394 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 10.207 | 43   | 41611    | 54.365 | ug/L   | 100      |
| 42) Toluene                   | 10.384 | 91   | 178430   | 25.949 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 10.603 | 75   | 52458    | 27.096 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 10.786 | 97   | 34200    | 27.212 | ug/L   | 95       |
| 46) Tetrachloroethene         | 10.859 | 164  | 36363    | 23.863 | ug/L   | 86       |
| 48) 2-Hexanone                | 10.963 | 43   | 33568    | 63.189 | ug/L   | 98       |
| 49) Dibromochloromethane      | 11.128 | 129  | 42521    | 27.853 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 11.231 | 107  | 30622    | 25.261 | ug/L # | 96       |
| 51) Chlorobenzene             | 11.652 | 112  | 126070   | 26.345 | ug/L   | 98       |
| 52) Ethylbenzene              | 11.725 | 91   | 209184   | 27.488 | ug/L   | 97       |
| 53) m,p-Xylene                | 11.841 | 106  | 84953    | 27.130 | ug/L   | 92       |
| 54) o-Xylene                  | 12.164 | 106  | 82038    | 27.844 | ug/L   | 95       |
| 55) Styrene                   | 12.176 | 104  | 142788   | 28.909 | ug/L   | 93       |
| 57) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 41534    | 28.482 | ug/L   | 97       |
| 59) Bromoform                 | 12.347 | 173  | 26096    | 25.562 | ug/L # | 37       |
| 60) Isopropylbenzene          | 12.463 | 105  | 224778   | 24.256 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 12.768 | 75   | 28992    | 23.795 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 12.938 | 105  | 159744   | 25.923 | ug/L   | 96       |
| 63) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 192874   | 25.611 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 13.493 | 146  | 114255   | 24.854 | ug/L   | 94       |
| 65) 1,4-Dichlorobenzene       | 13.578 | 146  | 116271   | 25.239 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 13.865 | 146  | 105852   | 25.899 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 14.481 | 75   | 5994     | 23.271 | ug/L # | 78       |
| 69) 1,3,5-Trichlorobenzene    | 14.627 | 180  | 88500    | 26.822 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 15.127 | 180  | 60299    | 24.153 | ug/L   | 98       |
| 71) Naphthalene               | 15.359 | 128  | 110682   | 25.114 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.548 | 180  | 56445    | 26.139 | ug/L   | 95       |

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

**Instrument :**  
MSVOA\_W  
**ClientSampleId :**  
VSTD025585

Abundance

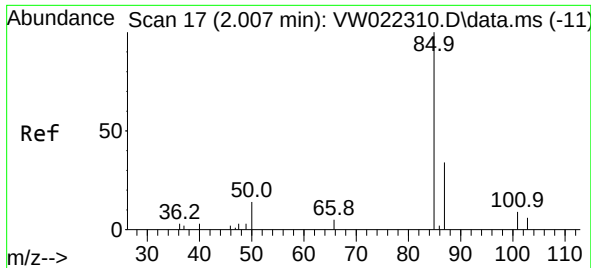
TIC: VW022330.D\data.ms

Time-->

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

540000  
520000  
500000  
480000  
460000  
440000  
420000  
400000  
380000  
360000  
340000  
320000  
300000  
280000  
260000  
240000  
220000  
200000  
180000  
160000  
140000  
120000  
100000  
80000  
60000  
40000  
20000  
0

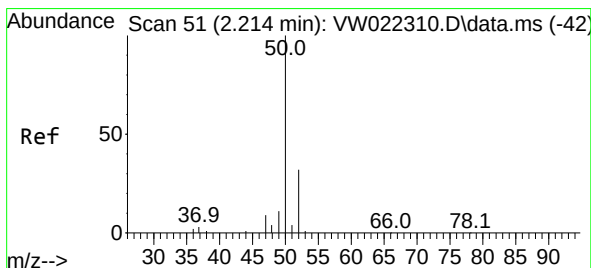
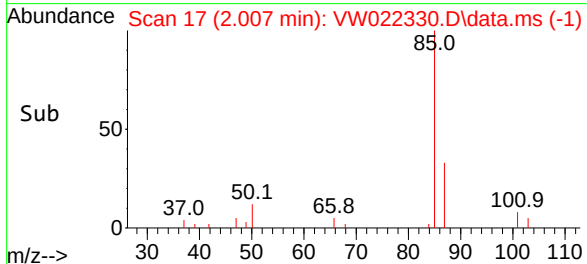
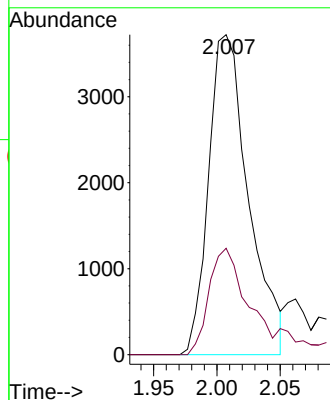
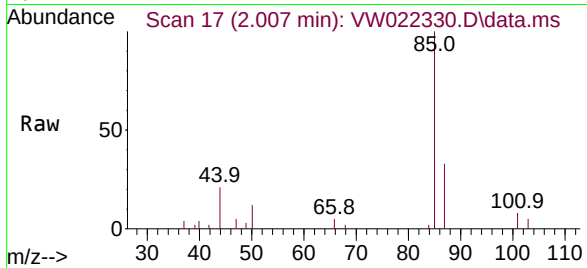
Dichlorodifluoromethane, T  
Chloromethane, T  
Vinyl chloride-d3, S  
Bromomethane, T  
Chloroethane, S  
Trichlorofluoromethane, T  
1,1-Dichloro-1,1,2,2-tetrafluoroethane, T  
Acetone, T  
Carbon disulfide, T  
Methyl acetate, T  
Methylene chloride, T  
Methyl 2-chloroacetate, T  
1,1-Dichloroethane, T  
2-Butanone-d5, S  
2-Butanone, T  
Bromochloromethane, T  
Chloroform, T  
1,1,1-Trichloroethane, T  
Carbon tetrachloride, T  
Benzene-d6, S  
1,2-Dichloroethane, T  
1,4-Difluorobenzene, I  
Trichloroethene, T  
1,2-Dichloropropane, S  
1,1,2-Trichloroethane, T  
Bromodichloromethane, T  
cis-1,3-Dichloropropene, T  
4-Methyl-2-pentanone, I  
Toluene-d8, S  
Toluene, T  
trans-1,3-Dichloropropene, T  
1,3-Dichloropropene, T  
1,1,2-Trichloroethane, T  
Tetrahydrofuran, T  
2-Hexanone, T  
1,1-Dibromochloromethane, T  
1,2-Dibromochloromethane, T  
Chlorobenzene, T  
Ethylbenzene, T  
m,p-Xylene, T  
Styrene, T  
Isopropylbenzene, T  
1,3,5-Trimethylbenzene, T  
1,2,4-Trimethylbenzene, T  
1,4-Dichlorobenzene-d4, I  
1,2-Dichlorobenzene, T  
1,2,3-Trichlorobenzene, T  
1,3,5-Trichlorobenzene, T  
1,2,4-trichlorobenzene, T  
Naphthalene, T  
1,2,3-Trichlorobenzene, T



#2  
 Dichlorodifluoromethane  
 Concen: 22.414 ug/L  
 RT: 2.007 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VW022330.D  
 Acq: 15 Mar 2022 11:44

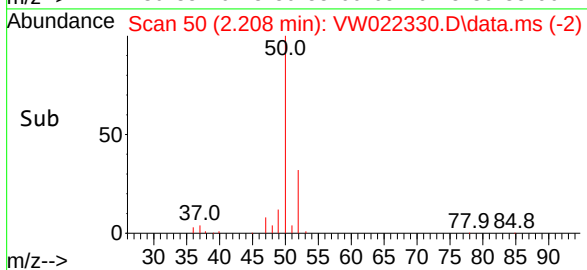
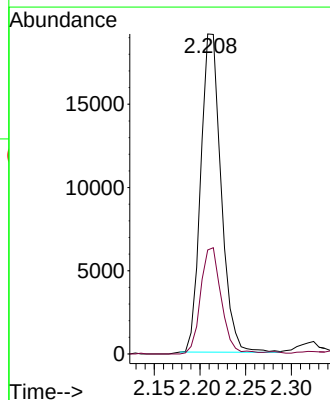
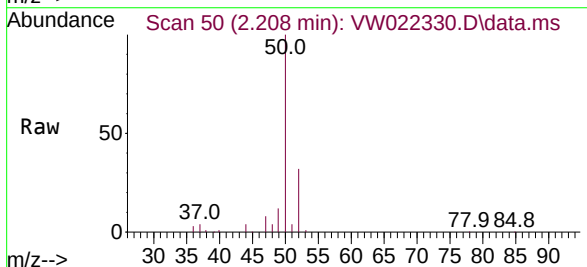
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025585

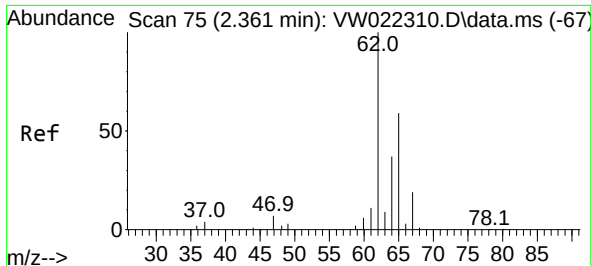
Tgt Ion: 85 Resp: 8189  
 Ion Ratio Lower Upper  
 85 100  
 87 31.6 27.6 41.4



#3  
 Chloromethane  
 Concen: 23.645 ug/L  
 RT: 2.208 min Scan# 50  
 Delta R.T. -0.006 min  
 Lab File: VW022330.D  
 Acq: 15 Mar 2022 11:44

Tgt Ion: 50 Resp: 29602  
 Ion Ratio Lower Upper  
 50 100  
 52 32.5 23.9 44.5

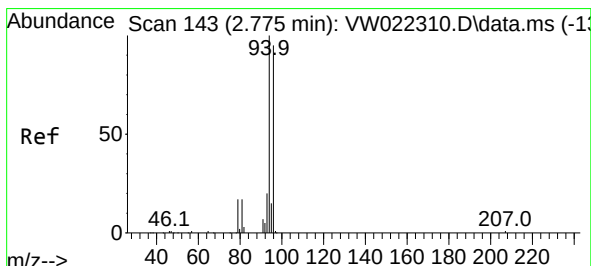
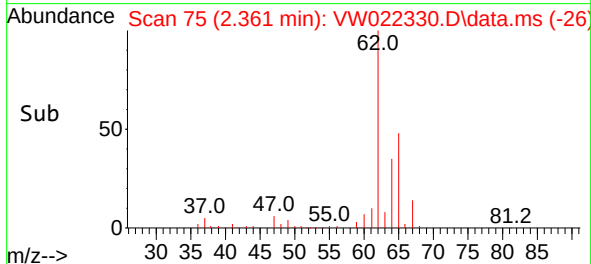
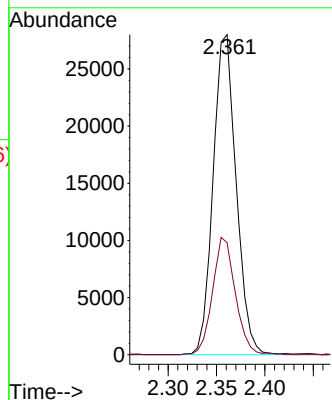
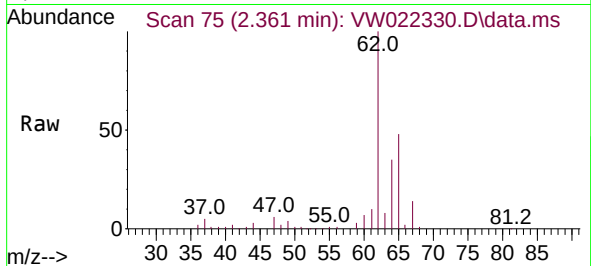




#5  
 Vinyl chloride  
 Concen: 24.649 ug/L  
 RT: 2.361 min Scan# 75  
 Delta R.T. 0.000 min  
 Lab File: VW022330.D  
 Acq: 15 Mar 2022 11:44

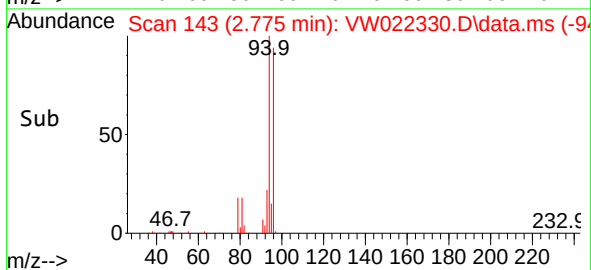
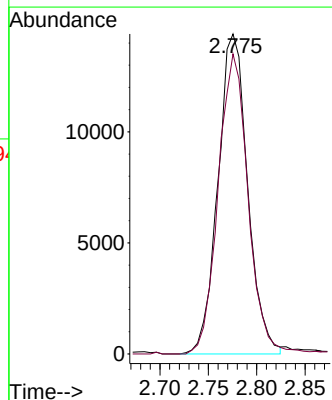
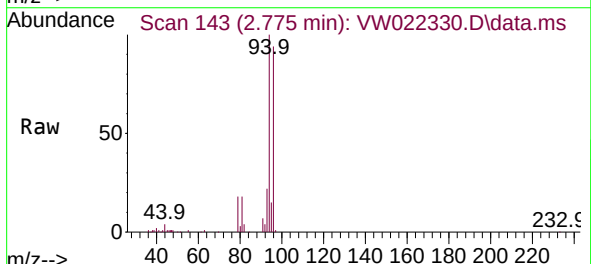
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025585

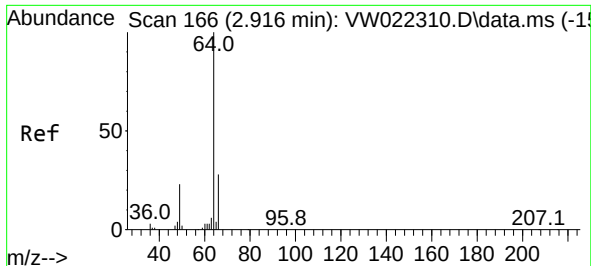
Tgt Ion: 62 Resp: 46368  
 Ion Ratio Lower Upper  
 62 100  
 64 35.0 24.7 45.9



#6  
 Bromomethane  
 Concen: 23.373 ug/L  
 RT: 2.775 min Scan# 143  
 Delta R.T. 0.000 min  
 Lab File: VW022330.D  
 Acq: 15 Mar 2022 11:44

Tgt Ion: 94 Resp: 30707  
 Ion Ratio Lower Upper  
 94 100  
 96 93.8 61.2 113.8

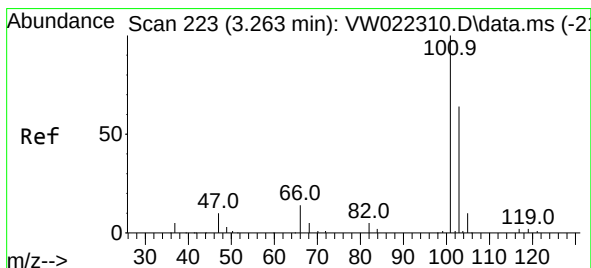
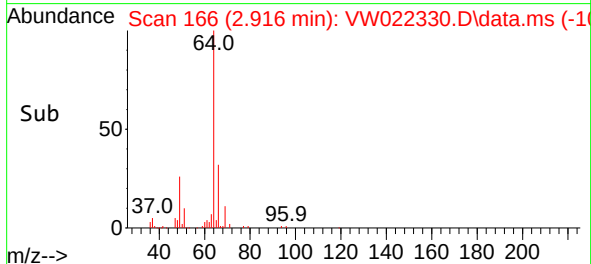
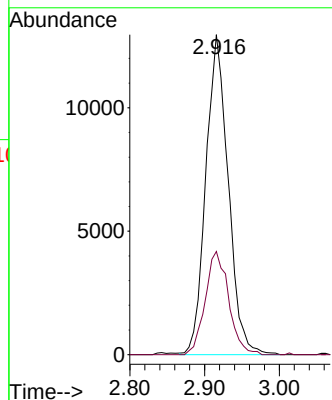
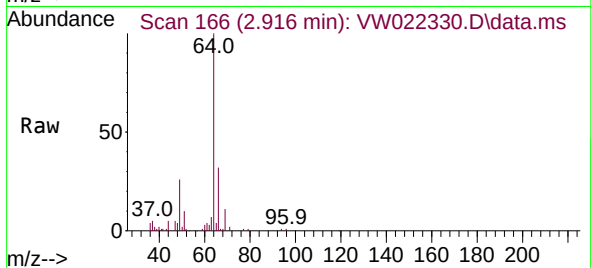




#8  
Chloroethane  
Concen: 25.533 ug/L  
RT: 2.916 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

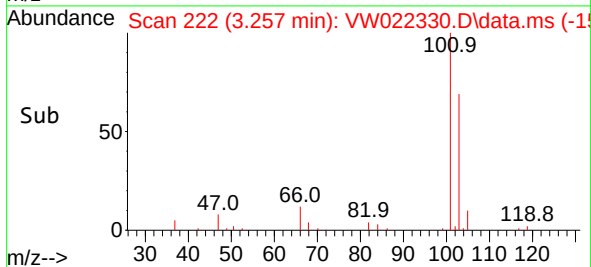
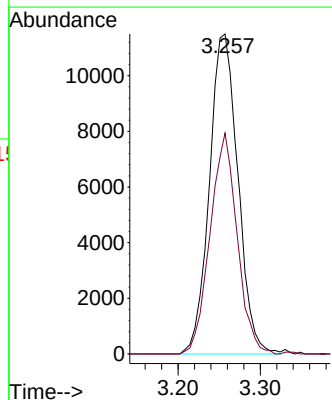
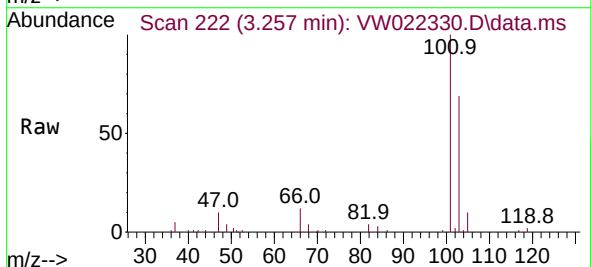
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

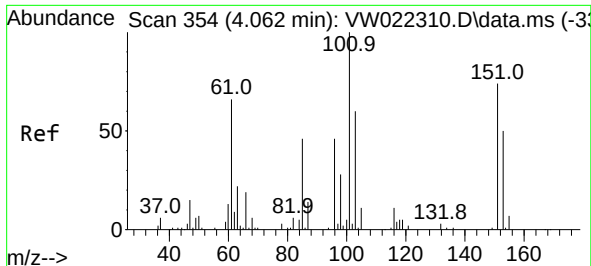
Tgt Ion: 64 Resp: 26982  
Ion Ratio Lower Upper  
64 100  
66 32.3 23.2 43.0



#9  
Trichlorofluoromethane  
Concen: 21.700 ug/L  
RT: 3.257 min Scan# 222  
Delta R.T. -0.006 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 101 Resp: 27714  
Ion Ratio Lower Upper  
101 100  
103 65.4 53.2 79.8

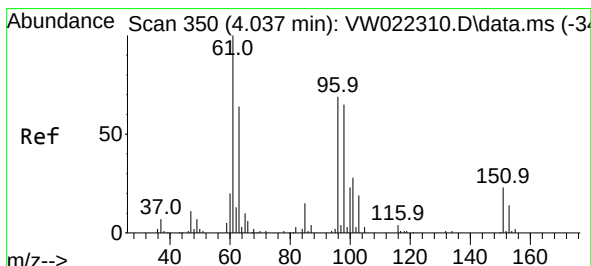
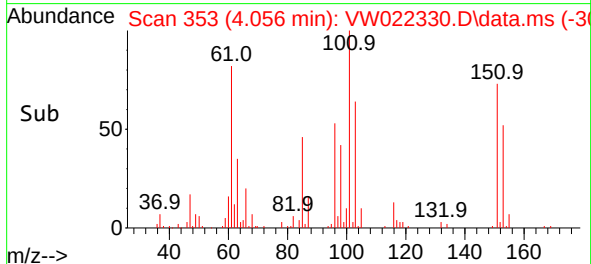
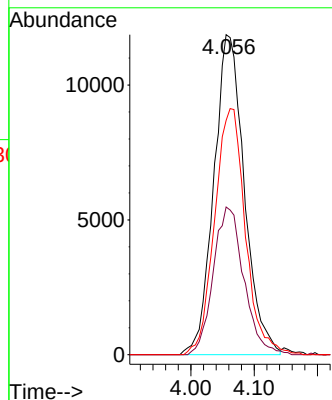
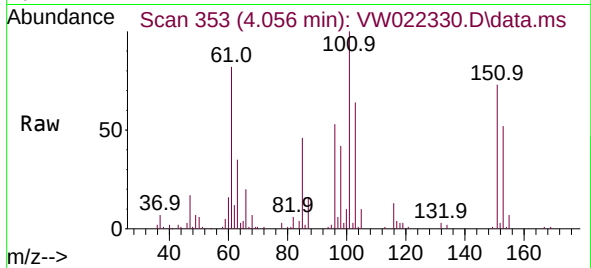




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 25.484 ug/L  
 RT: 4.056 min Scan# 31  
 Delta R.T. -0.006 min  
 Lab File: VW022330.D  
 Acq: 15 Mar 2022 11:44

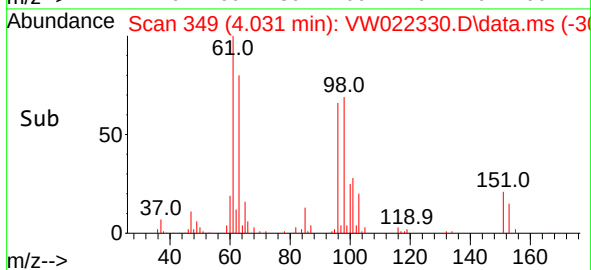
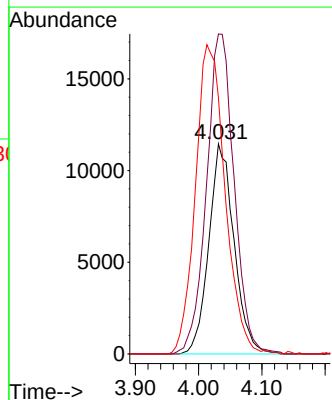
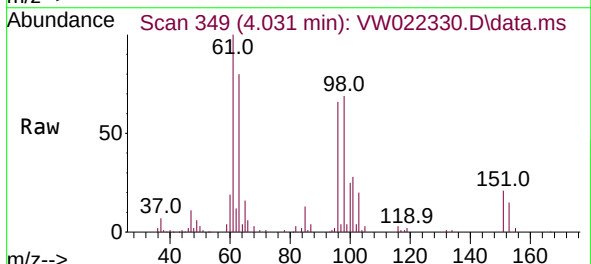
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025585

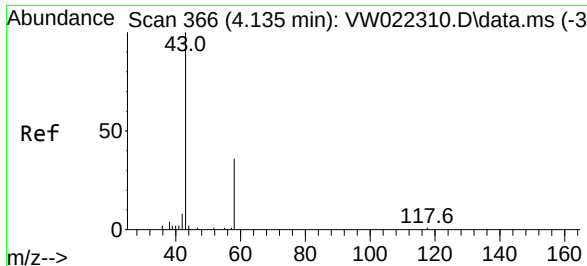
Tgt Ion:101 Resp: 39708  
 Ion Ratio Lower Upper  
 101 100  
 85 46.2 34.4 51.6  
 151 77.5 59.0 88.4



#12  
 1,1-Dichloroethene  
 Concen: 23.515 ug/L  
 RT: 4.031 min Scan# 349  
 Delta R.T. -0.006 min  
 Lab File: VW022330.D  
 Acq: 15 Mar 2022 11:44

Tgt Ion: 96 Resp: 31756  
 Ion Ratio Lower Upper  
 96 100  
 61 152.3 108.4 201.2  
 63 121.9 72.0 133.6





#13

Acetone

Concen: 65.444 ug/L

RT: 4.123 min Scan# 3

Delta R.T. -0.012 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

Instrument :

MSVOA\_W

ClientSampleId :

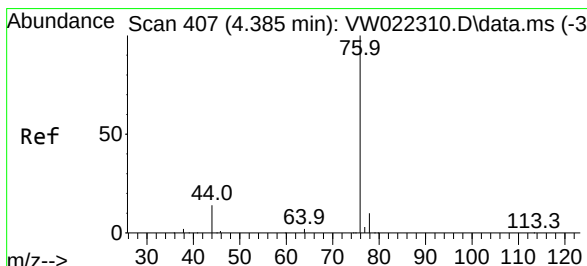
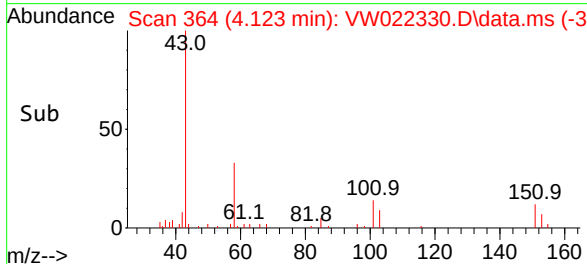
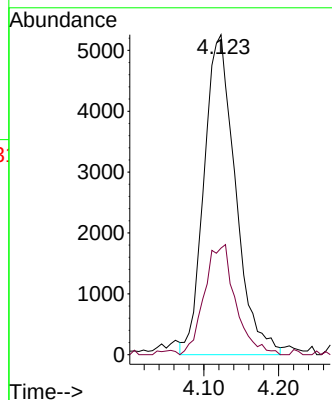
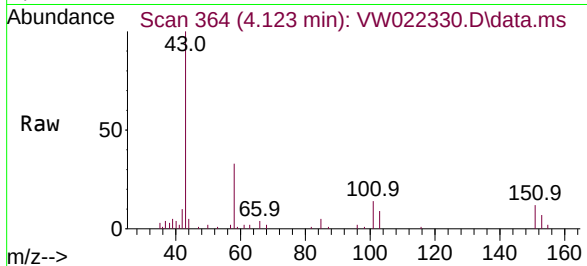
VSTD025585

Tgt Ion: 43 Resp: 15324

Ion Ratio Lower Upper

43 100

58 15.6 0.0 69.2



#14

Carbon disulfide

Concen: 16.860 ug/L

RT: 4.373 min Scan# 405

Delta R.T. -0.012 min

Lab File: VW022330.D

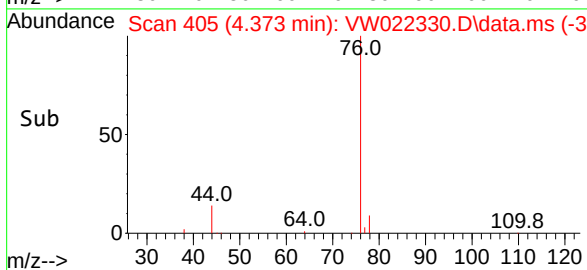
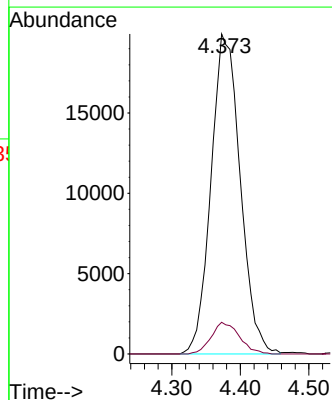
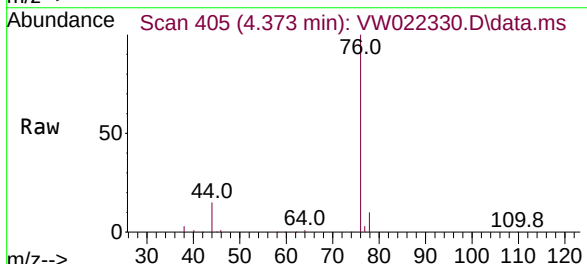
Acq: 15 Mar 2022 11:44

Tgt Ion: 76 Resp: 59029

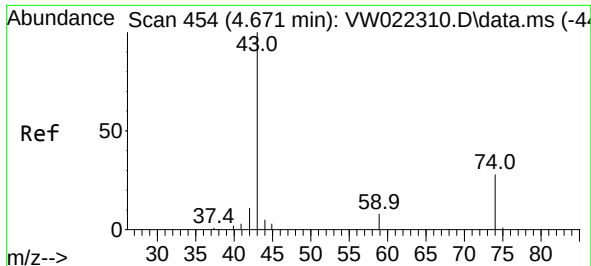
Ion Ratio Lower Upper

76 100

78 9.9 7.8 11.8



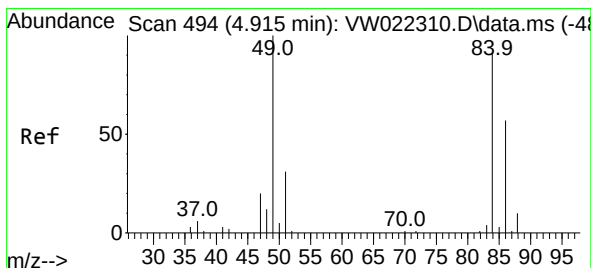
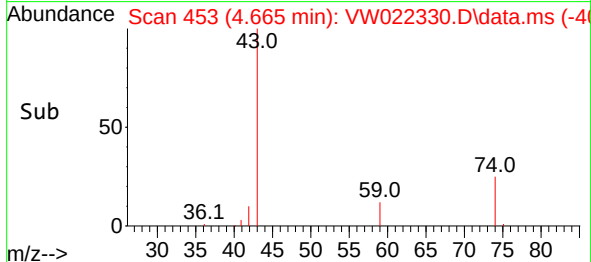
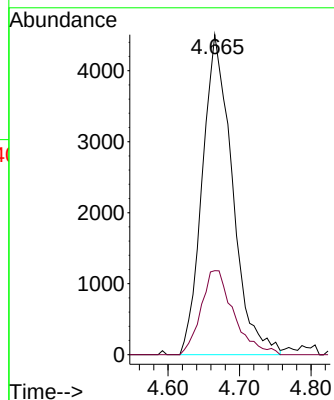
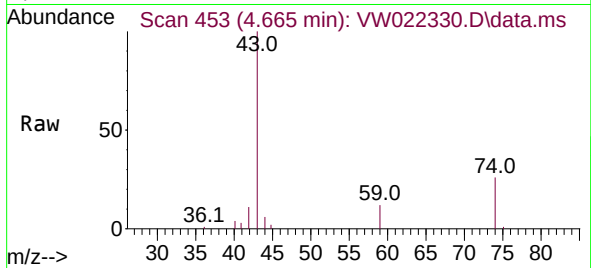




#15  
Methyl Acetate  
Concen: 24.959 ug/L  
RT: 4.665 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

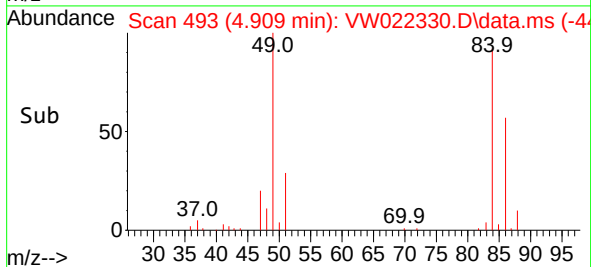
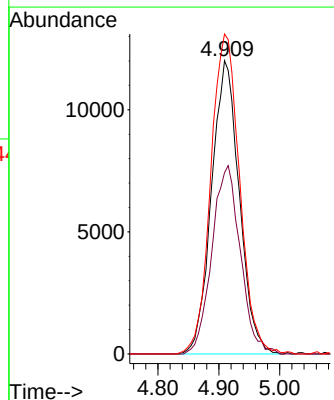
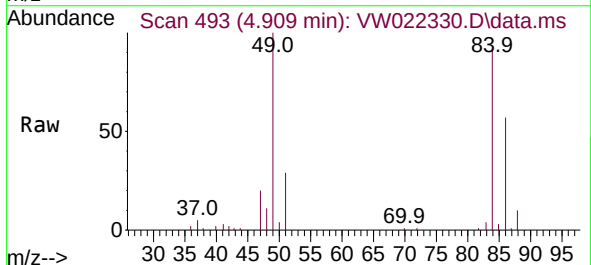
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

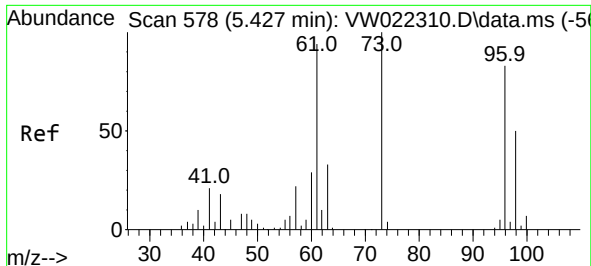
Tgt Ion: 43 Resp: 13157  
Ion Ratio Lower Upper  
43 100  
74 28.3 23.0 34.6



#16  
Methylene chloride  
Concen: 23.657 ug/L  
RT: 4.909 min Scan# 493  
Delta R.T. -0.006 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 84 Resp: 37961  
Ion Ratio Lower Upper  
84 100  
86 61.8 45.8 85.0  
49 109.1 73.8 137.0





#17

trans-1,2-Dichloroethene

Concen: 23.168 ug/L

RT: 5.415 min Scan# 576

Delta R.T. -0.012 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025585

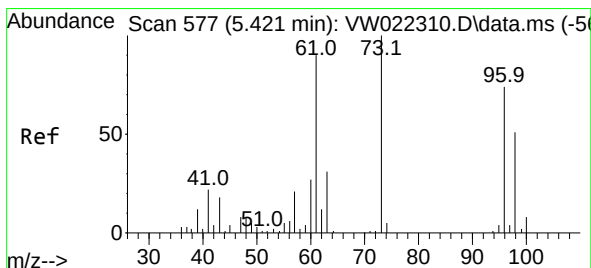
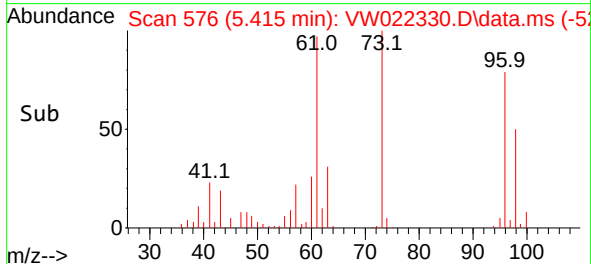
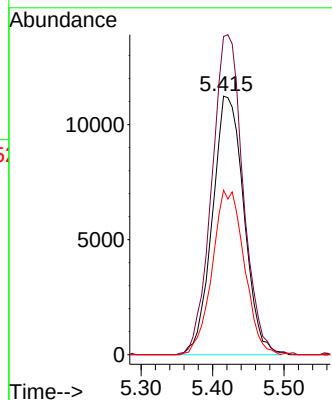
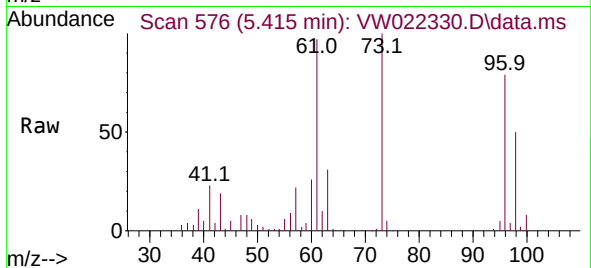
Tgt Ion: 96 Resp: 34365

Ion Ratio Lower Upper

96 100

61 123.0 87.3 162.1

98 63.6 43.2 80.2



#18

Methyl tert-butyl Ether

Concen: 25.843 ug/L

RT: 5.421 min Scan# 577

Delta R.T. 0.000 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

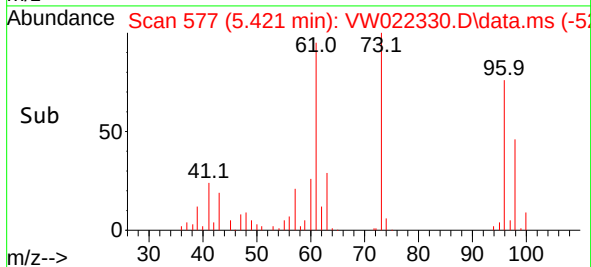
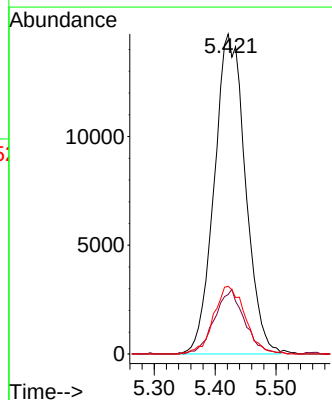
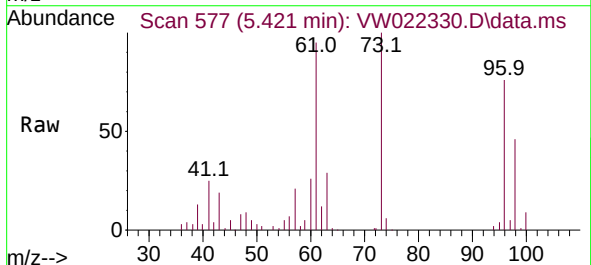
Tgt Ion: 73 Resp: 52151

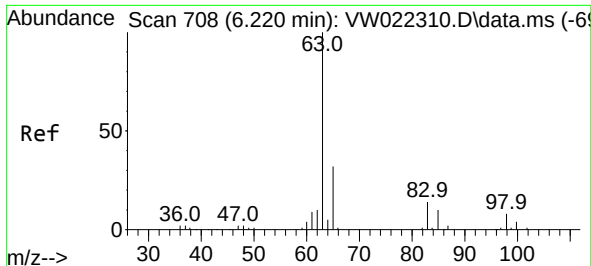
Ion Ratio Lower Upper

73 100

43 19.4 15.4 23.2

57 21.4 16.5 24.7





#19

1,1-Dichloroethane

Concen: 27.463 ug/L

RT: 6.214 min Scan# 708

Delta R.T. -0.006 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025585

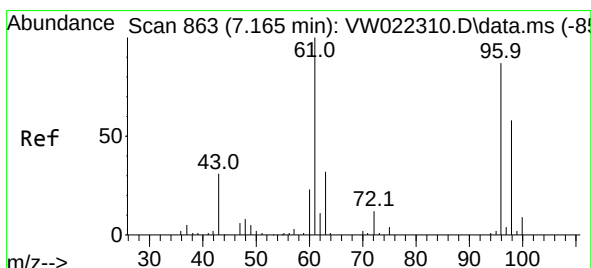
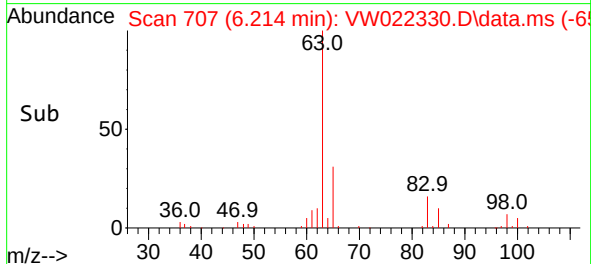
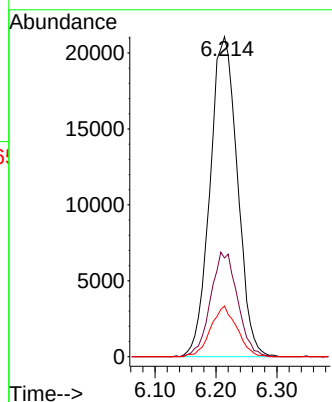
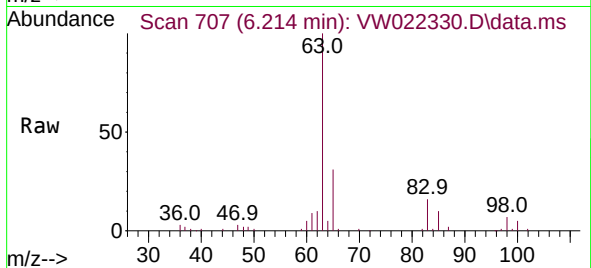
Tgt Ion: 63 Resp: 65947

Ion Ratio Lower Upper

63 100

65 30.9 22.5 41.9

83 15.9 11.5 21.5



#20

cis-1,2-Dichloroethene

Concen: 26.010 ug/L

RT: 7.171 min Scan# 864

Delta R.T. 0.006 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

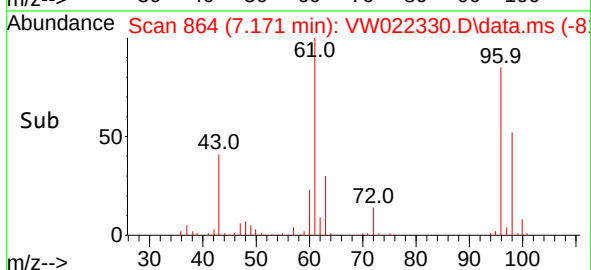
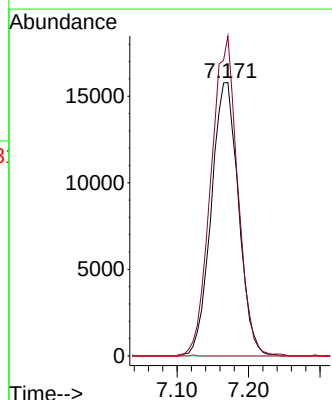
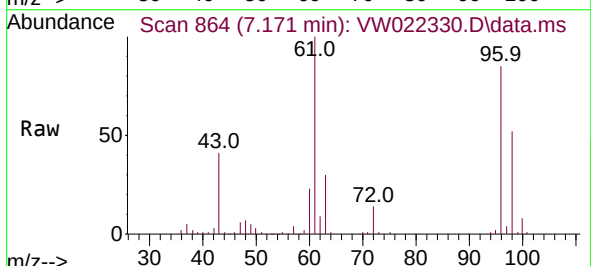
Tgt Ion: 96 Resp: 41792

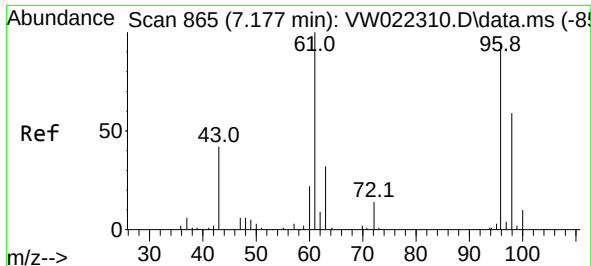
Ion Ratio Lower Upper

96 100

61 117.1 76.8 142.6

68 0.0 0.0 0.0

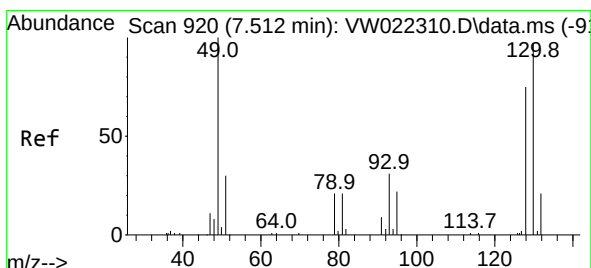
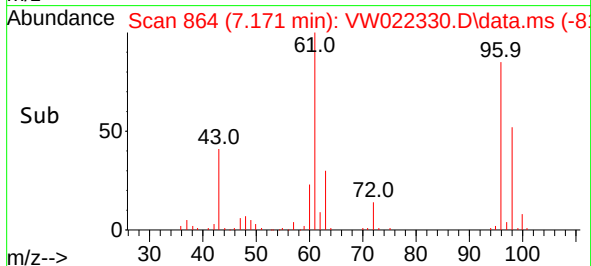
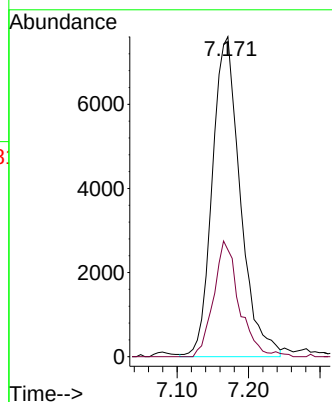
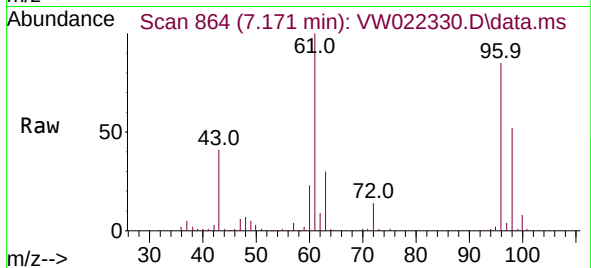




#22  
2-Butanone  
Concen: 61.576 ug/L  
RT: 7.171 min Scan# 864  
Delta R.T. -0.006 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

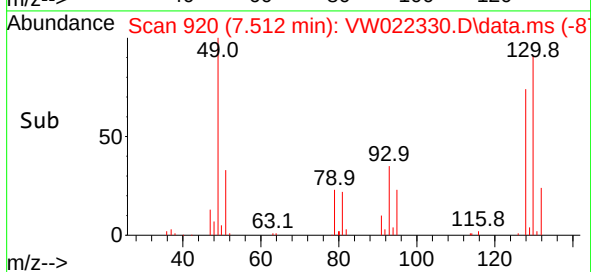
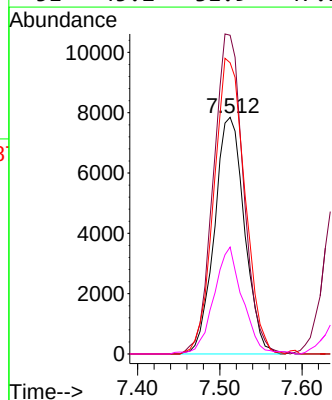
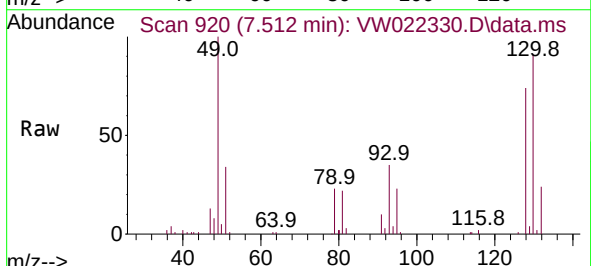
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

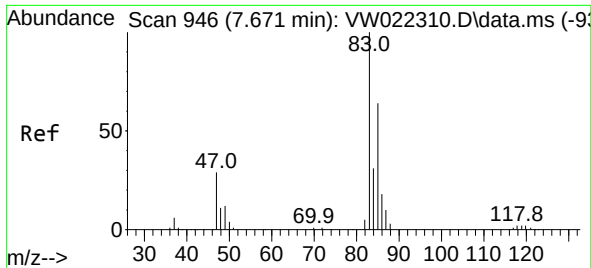
Tgt Ion: 43 Resp: 20712  
Ion Ratio Lower Upper  
43 100  
72 32.5 17.0 51.0



#23  
Bromochloromethane  
Concen: 25.357 ug/L  
RT: 7.512 min Scan# 920  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 128 Resp: 19903  
Ion Ratio Lower Upper  
128 100  
49 134.7 84.2 156.4  
130 123.1 84.8 157.4  
51 45.2 31.9 47.9

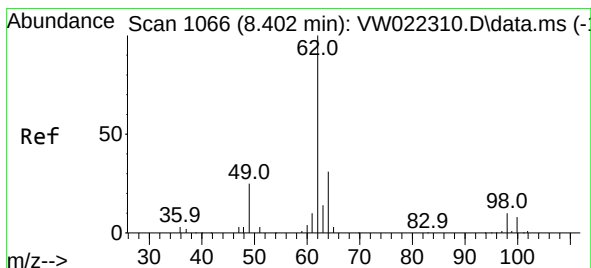
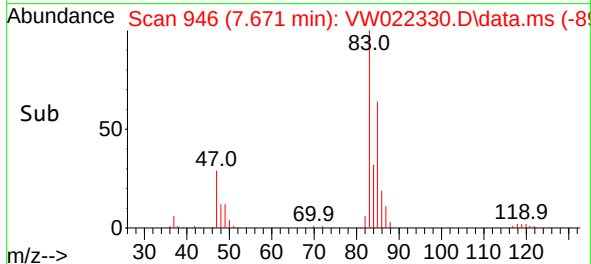
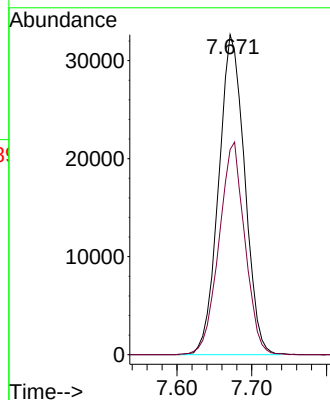
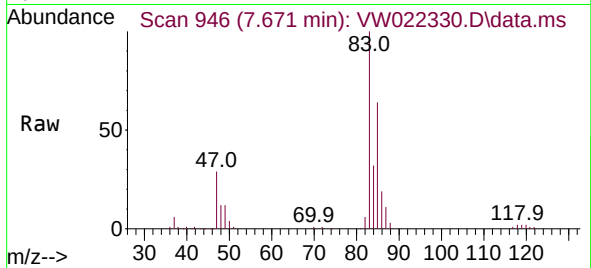




#25  
Chloroform  
Concen: 28.191 ug/L  
RT: 7.671 min Scan# 946  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

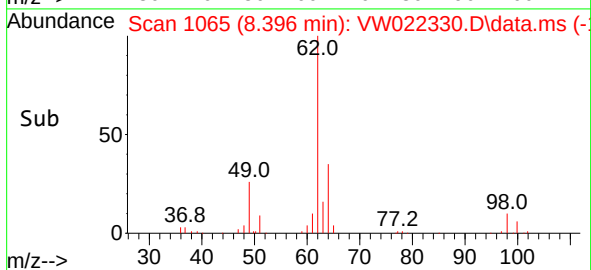
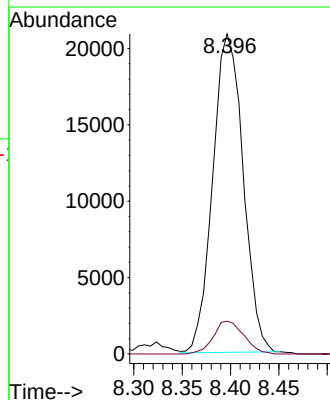
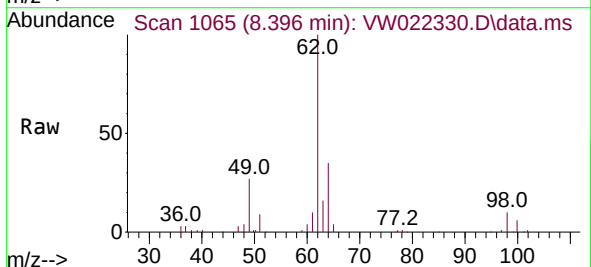
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

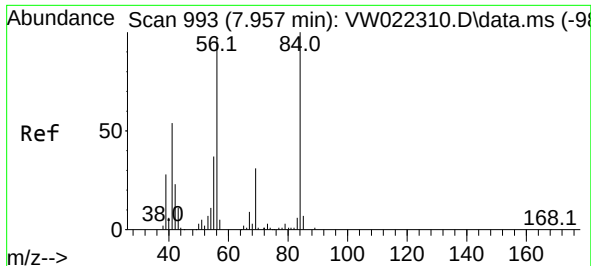
Tgt Ion: 83 Resp: 78988  
Ion Ratio Lower Upper  
83 100  
85 64.1 45.1 83.9



#27  
1,2-Dichloroethane  
Concen: 26.395 ug/L  
RT: 8.396 min Scan# 1065  
Delta R.T. -0.006 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 62 Resp: 45551  
Ion Ratio Lower Upper  
62 100  
98 10.3 7.9 11.9

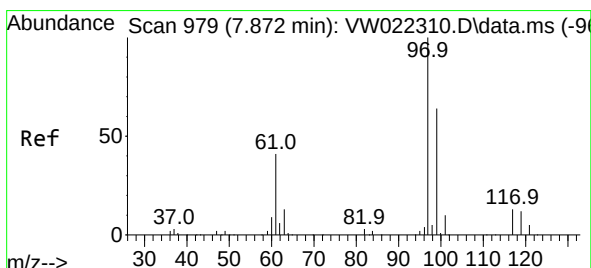
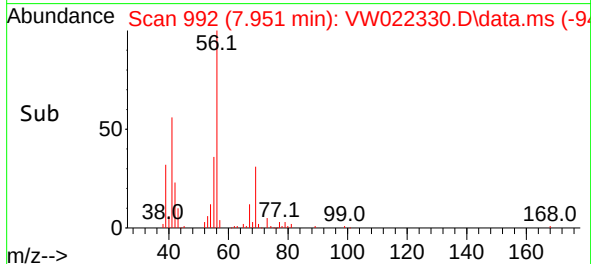
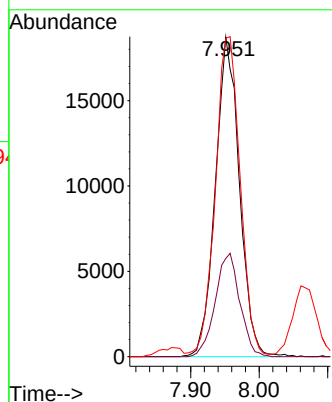
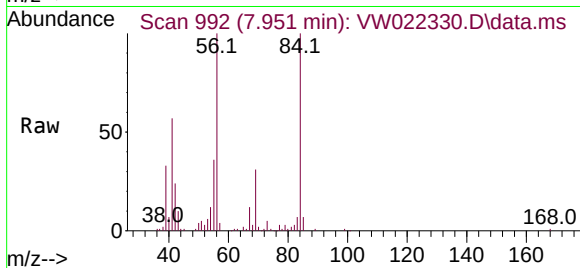




#29  
Cyclohexane  
Concen: 21.741 ug/L  
RT: 7.951 min Scan# 992  
Delta R.T. -0.006 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

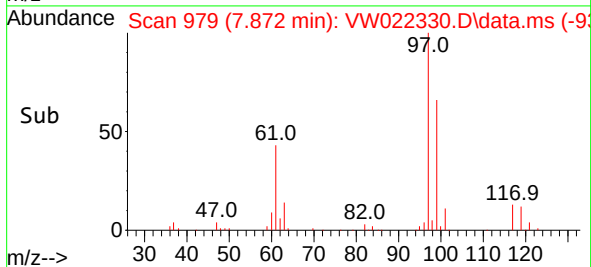
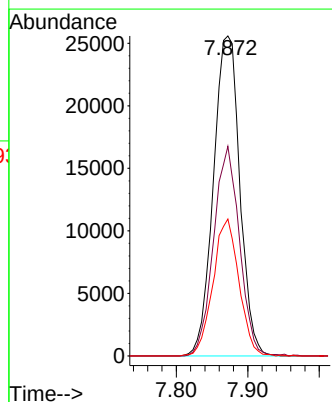
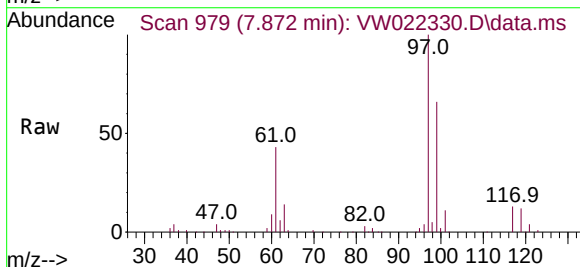
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

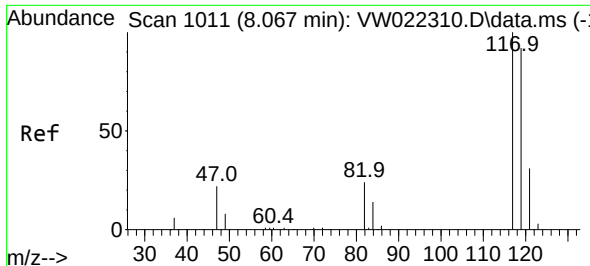
Tgt Ion: 56 Resp: 45464  
Ion Ratio Lower Upper  
56 100  
69 33.2 26.3 39.5  
84 103.9 81.4 122.2



#30  
1,1,1-Trichloroethane  
Concen: 25.993 ug/L  
RT: 7.872 min Scan# 979  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 97 Resp: 65714  
Ion Ratio Lower Upper  
97 100  
99 64.0 52.6 78.8  
61 42.0 33.0 49.6

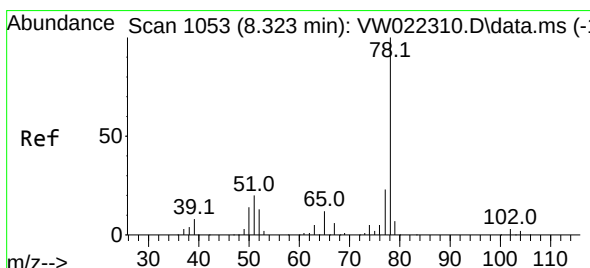
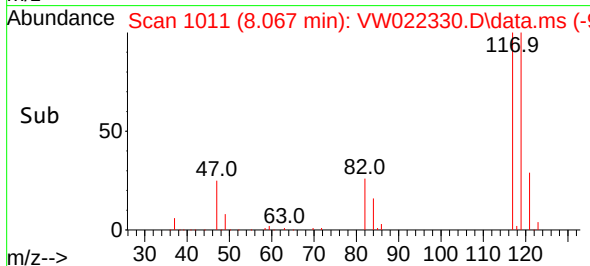
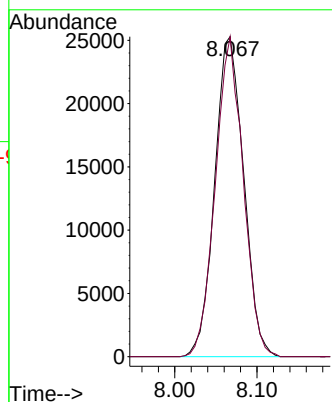
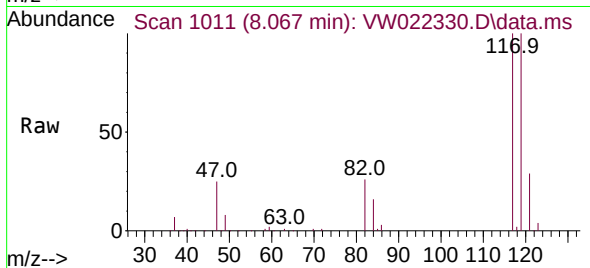




#31  
Carbon tetrachloride  
Concen: 25.795 ug/L  
RT: 8.067 min Scan# 1011  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

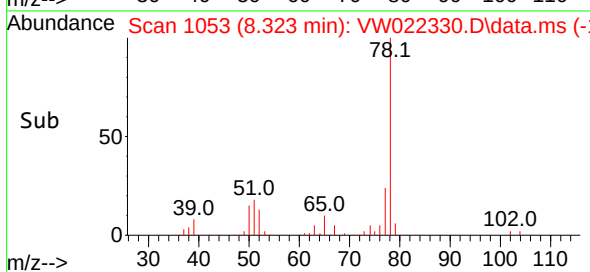
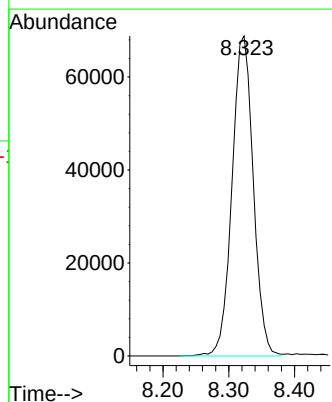
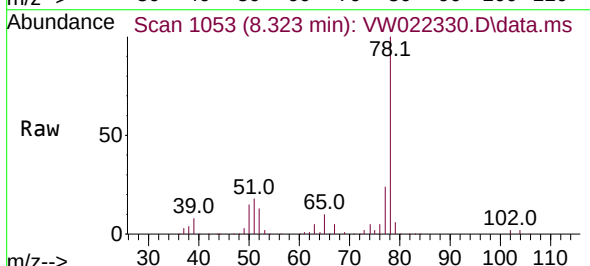
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

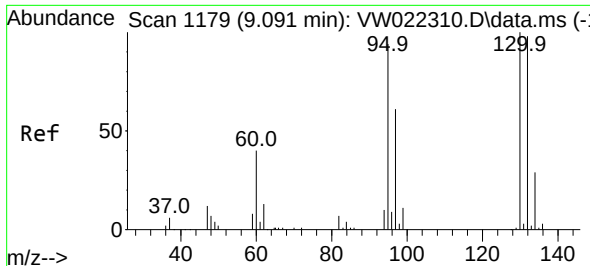
Tgt Ion:117 Resp: 61979  
Ion Ratio Lower Upper  
117 100  
119 96.0 76.7 115.1



#33  
Benzene  
Concen: 25.447 ug/L  
RT: 8.323 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 78 Resp: 154599

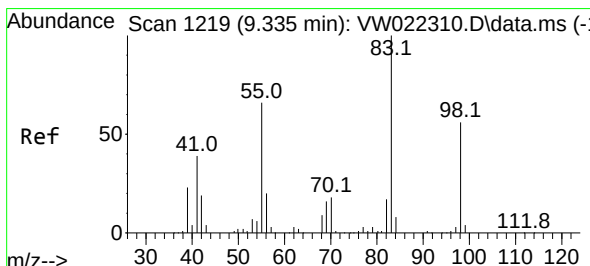
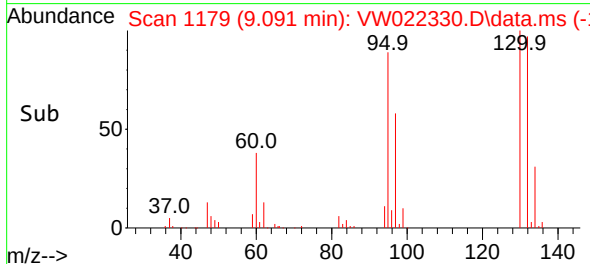
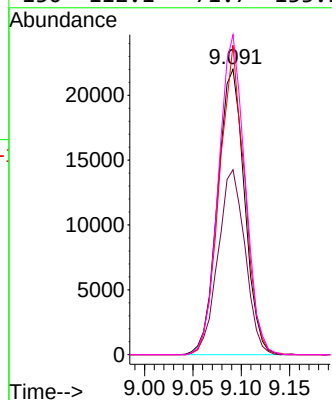
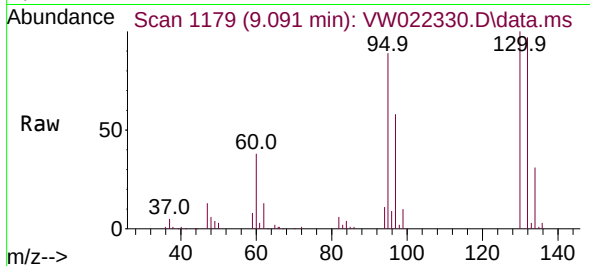




#34  
Trichloroethene  
Concen: 24.535 ug/L  
RT: 9.091 min Scan# 1179  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

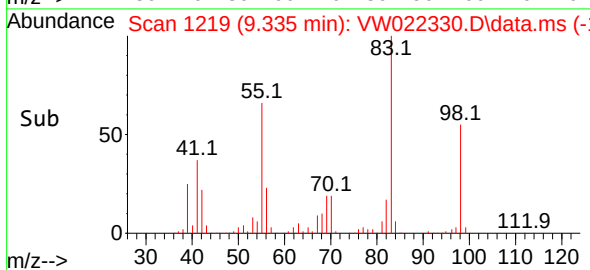
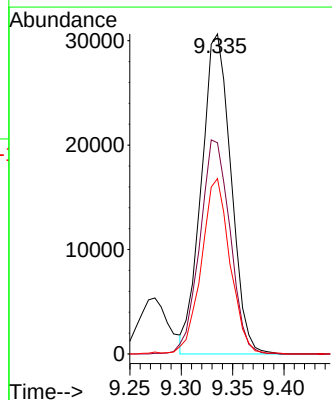
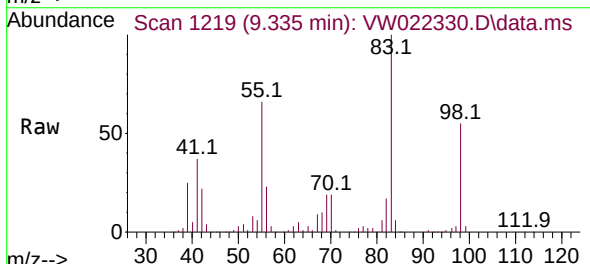
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

Tgt Ion: 95 Resp: 42678  
Ion Ratio Lower Upper  
95 100  
97 64.8 44.4 82.4  
132 108.4 71.7 133.1  
130 112.1 71.7 133.1

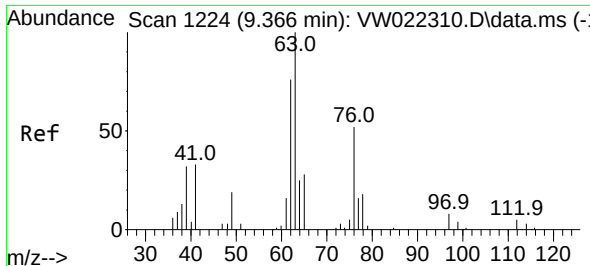


#35  
Methylcyclohexane  
Concen: 22.821 ug/L  
RT: 9.335 min Scan# 1219  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 83 Resp: 61403  
Ion Ratio Lower Upper  
83 100  
55 68.2 53.8 80.8  
98 53.1 42.1 63.1







#37

1,2-Dichloropropane

Concen: 26.747 ug/L

RT: 9.366 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

Instrument :

MSVOA\_W

ClientSampleId :

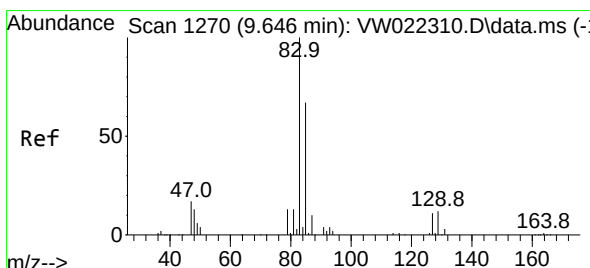
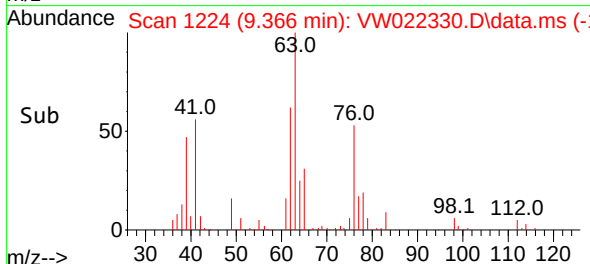
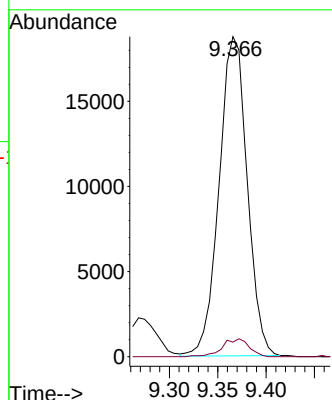
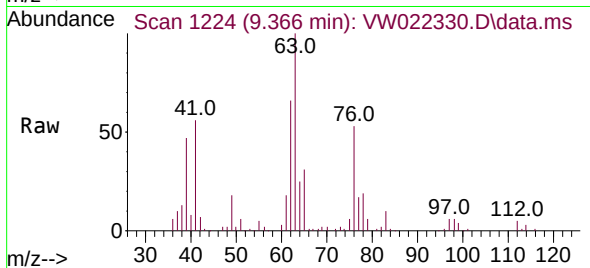
VSTD025585

Tgt Ion: 63 Resp: 37910

Ion Ratio Lower Upper

63 100

112 5.3 4.1 6.1



#38

Bromodichloromethane

Concen: 28.429 ug/L

RT: 9.646 min Scan# 1270

Delta R.T. 0.000 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

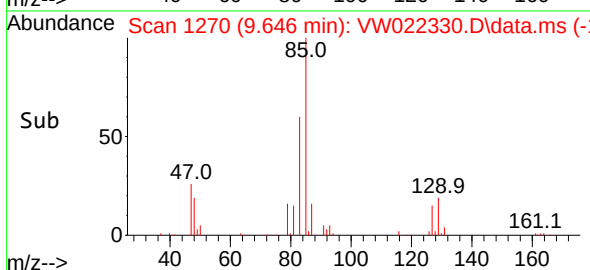
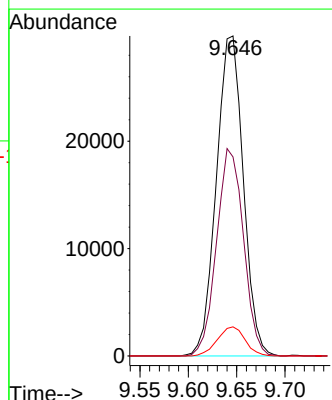
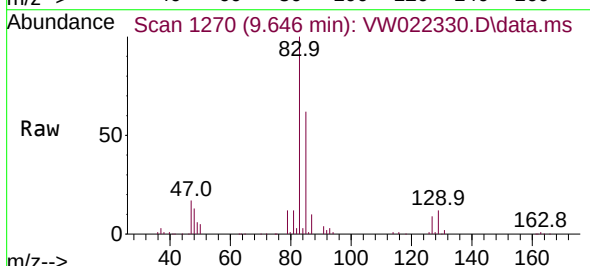
Tgt Ion: 83 Resp: 57783

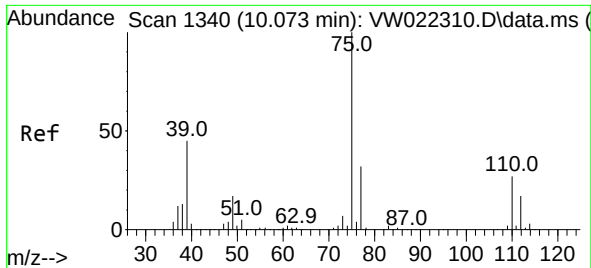
Ion Ratio Lower Upper

83 100

85 62.2 47.9 89.1

127 9.1 7.5 11.3





#39

cis-1,3-Dichloropropene

Concen: 27.394 ug/L

RT: 10.067 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

Instrument :

MSVOA\_W

ClientSampleId :

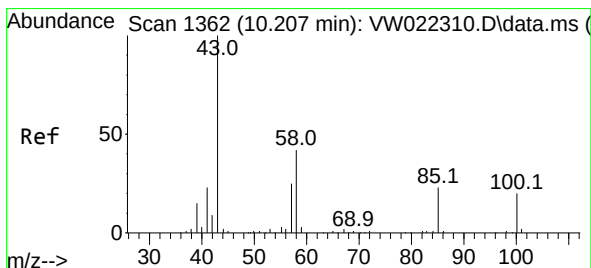
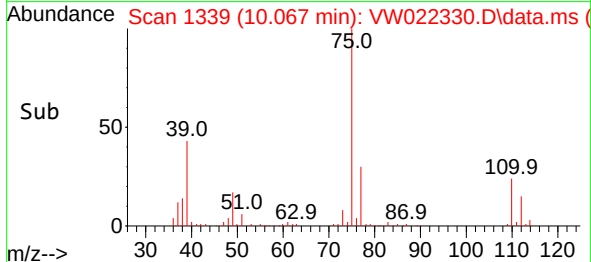
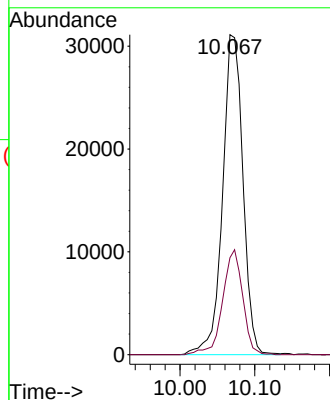
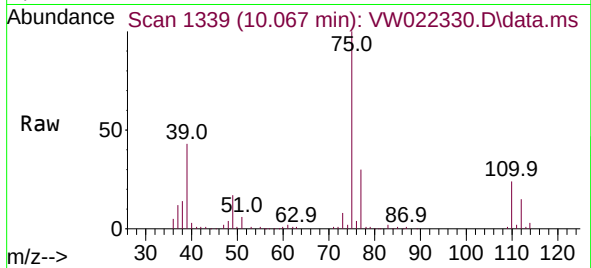
VSTD025585

Tgt Ion: 75 Resp: 59017

Ion Ratio Lower Upper

75 100

77 30.3 20.6 38.2



#40

4-Methyl-2-pentanone

Concen: 54.365 ug/L

RT: 10.207 min Scan# 1362

Delta R.T. 0.000 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

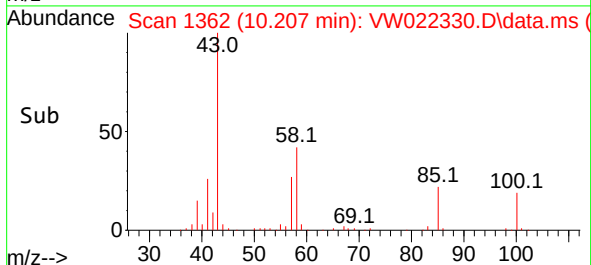
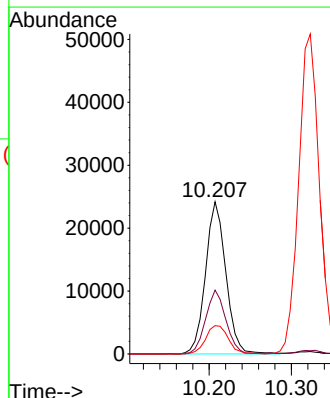
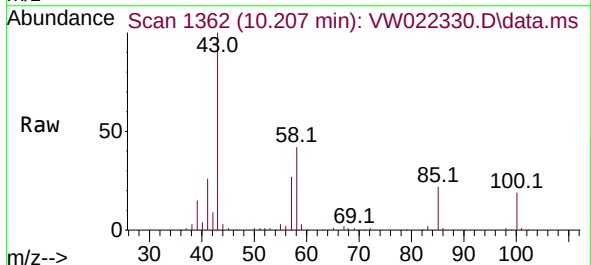
Tgt Ion: 43 Resp: 41611

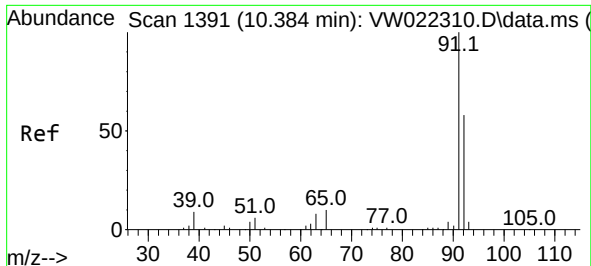
Ion Ratio Lower Upper

43 100

58 41.7 33.2 49.8

100 20.4 16.1 24.1

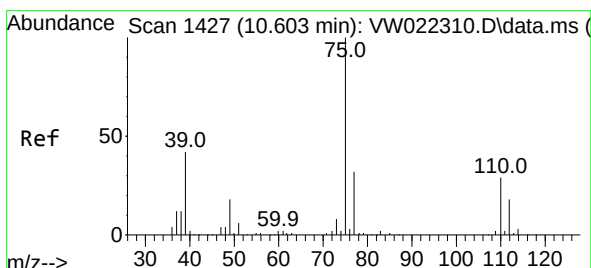
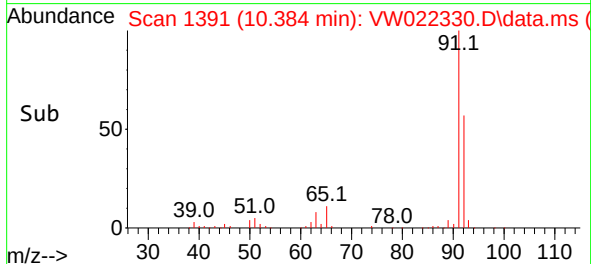
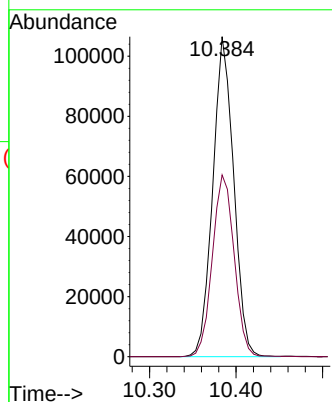
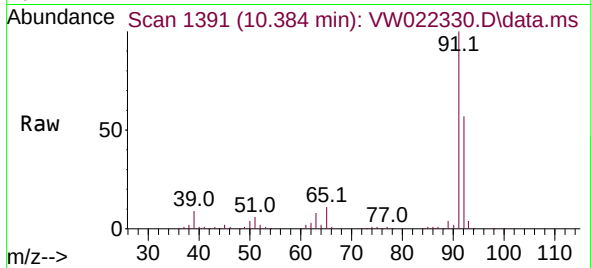




#42  
Toluene  
Concen: 25.949 ug/L  
RT: 10.384 min Scan# 1391  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

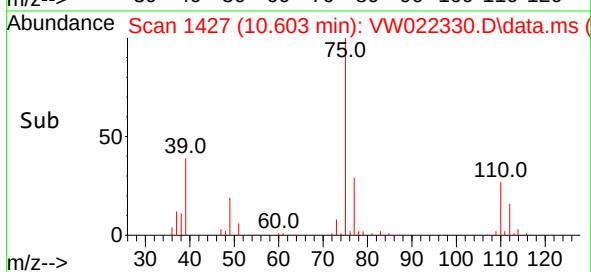
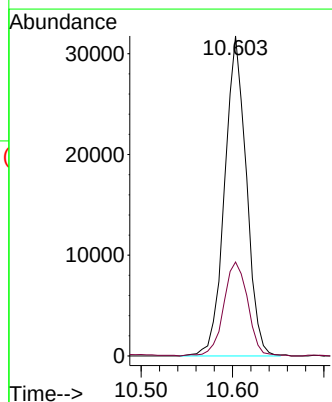
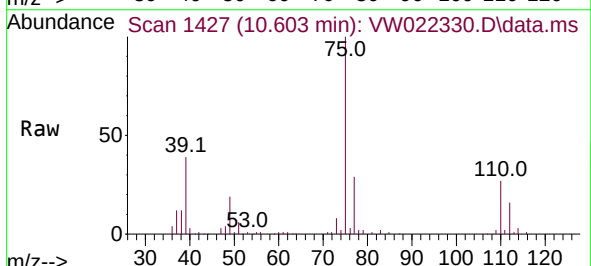
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

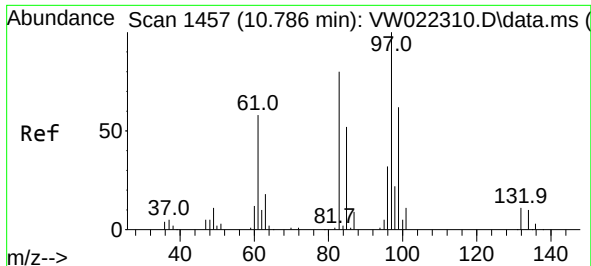
Tgt Ion: 91 Resp: 178430  
Ion Ratio Lower Upper  
91 100  
92 56.8 40.4 75.0



#44  
trans-1,3-Dichloropropene  
Concen: 27.096 ug/L  
RT: 10.603 min Scan# 1427  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 75 Resp: 52458  
Ion Ratio Lower Upper  
75 100  
77 29.3 22.0 40.8

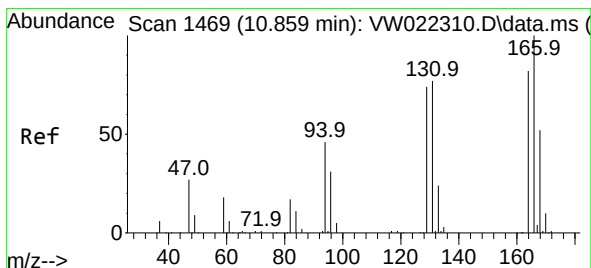
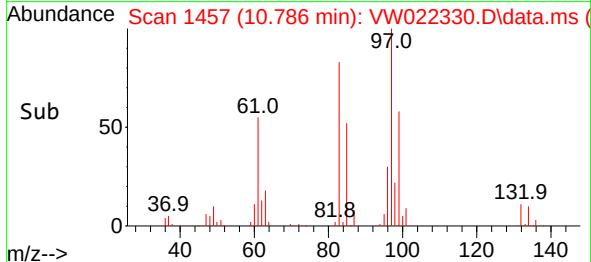
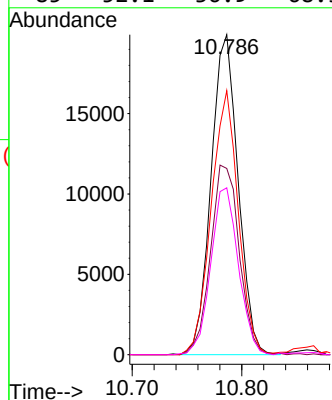
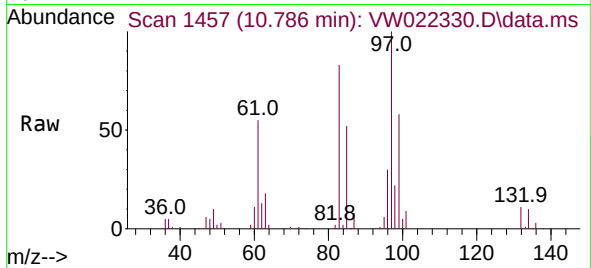




#45  
1,1,2-Trichloroethane  
Concen: 27.212 ug/L  
RT: 10.786 min Scan# 1457  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

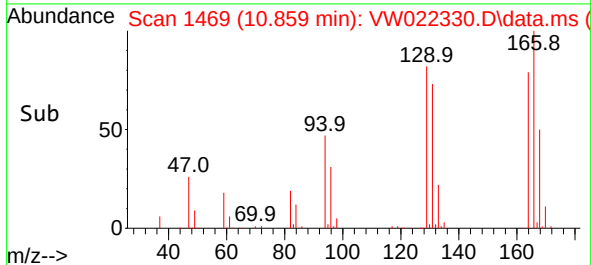
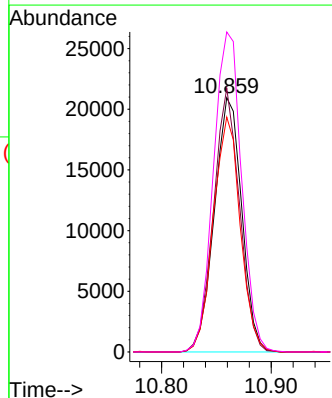
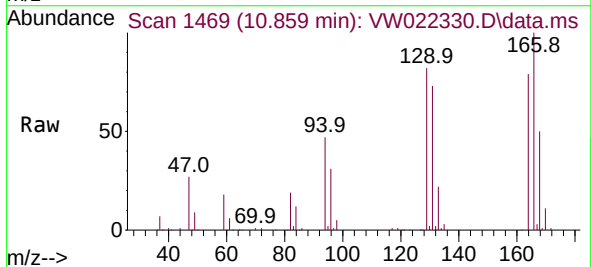
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

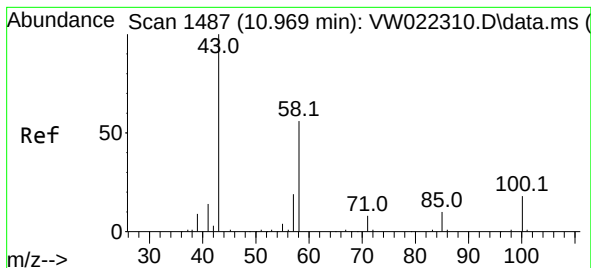
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 34200 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 58.2     | 43.5 80.7   |
| 83 82.5     | 53.5 99.3   |
| 85 52.1     | 36.9 68.5   |



#46  
Tetrachloroethene  
Concen: 23.863 ug/L  
RT: 10.859 min Scan# 1469  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 36363 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 103.7   | 60.3  | 111.9 |
| 131 | 92.4    | 59.9  | 111.3 |
| 166 | 125.9   | 77.0  | 143.0 |





#48

2-Hexanone

Concen: 63.189 ug/L

RT: 10.963 min Scan# 1487

Delta R.T. -0.006 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025585

Tgt Ion: 43 Resp: 33568

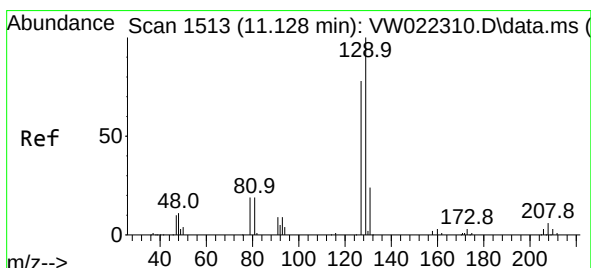
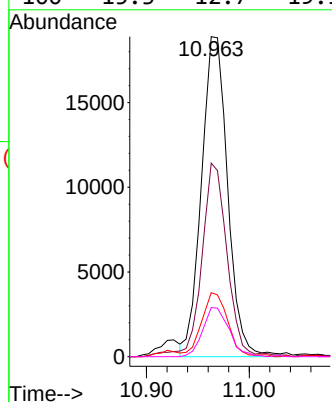
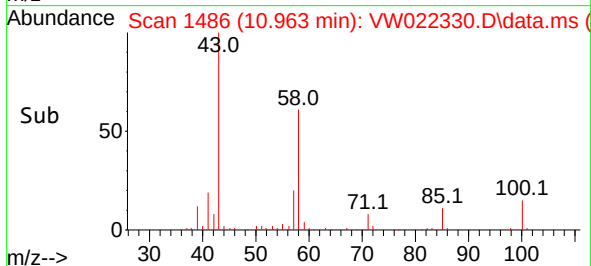
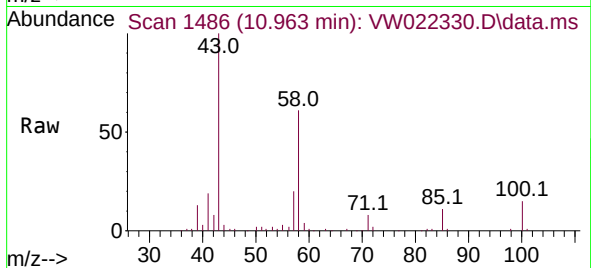
Ion Ratio Lower Upper

43 100

58 57.9 44.6 66.8

57 19.8 15.8 23.8

100 15.3 12.7 19.1



#49

Dibromochloromethane

Concen: 27.853 ug/L

RT: 11.128 min Scan# 1513

Delta R.T. 0.000 min

Lab File: VW022330.D

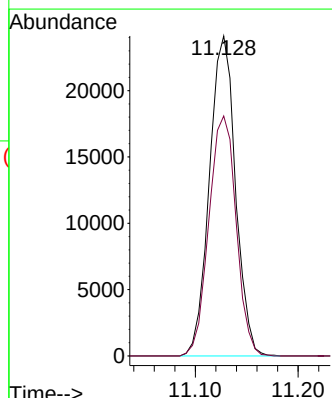
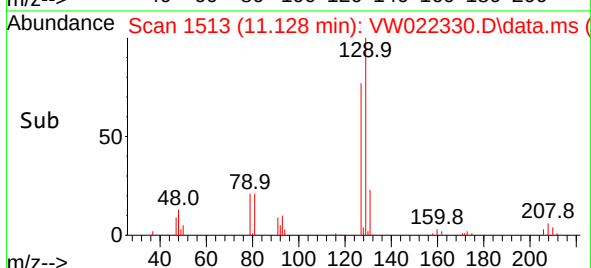
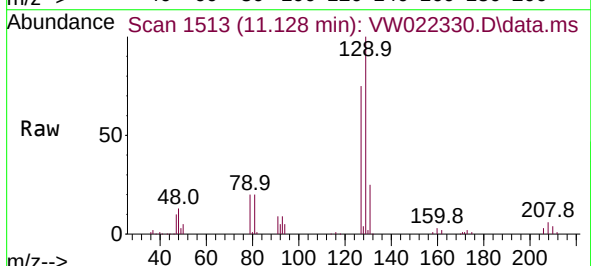
Acq: 15 Mar 2022 11:44

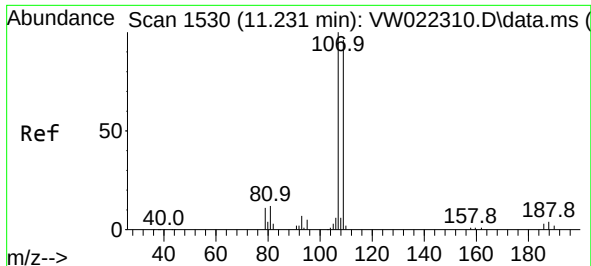
Tgt Ion: 129 Resp: 42521

Ion Ratio Lower Upper

129 100

127 75.0 54.5 101.1

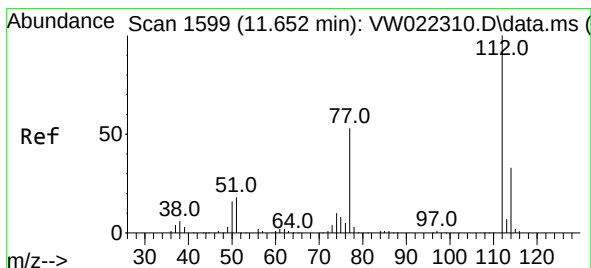
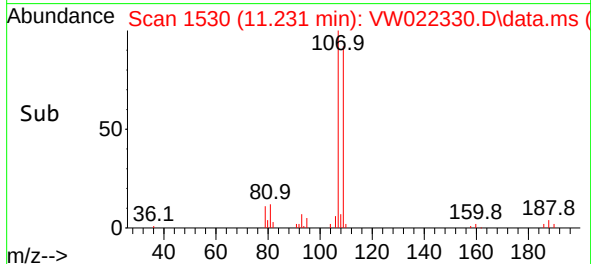
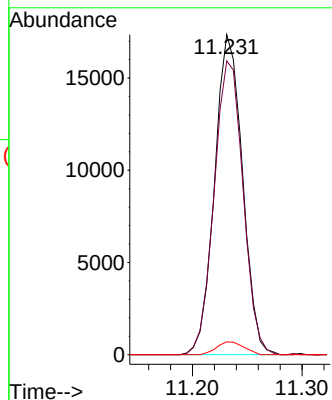
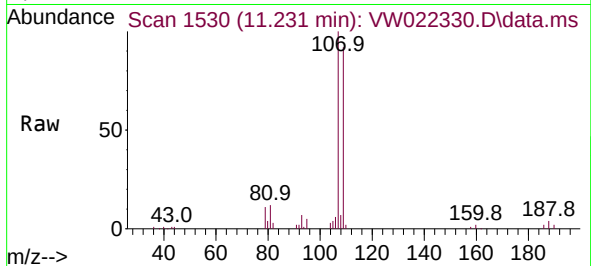




#50  
1,2-Dibromoethane  
Concen: 25.261 ug/L  
RT: 11.231 min Scan# 1530  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

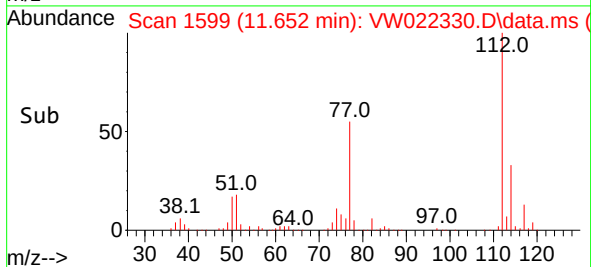
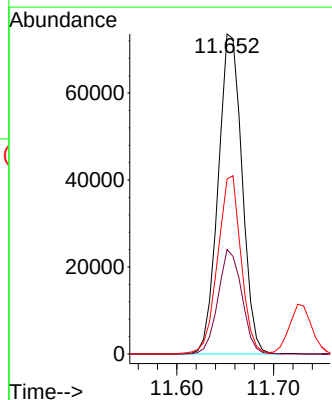
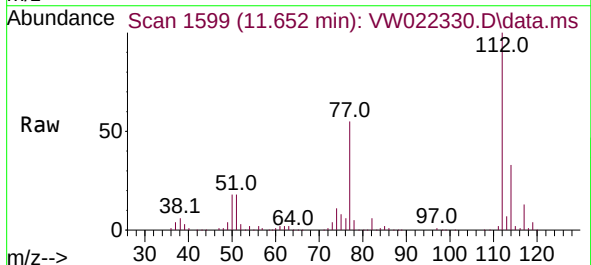
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

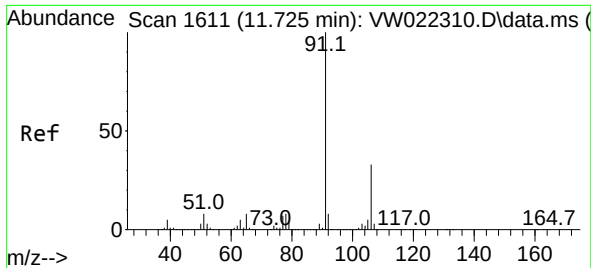
Tgt Ion:107 Resp: 30622  
Ion Ratio Lower Upper  
107 100  
109 91.8 66.8 124.2  
188 4.0 2.6 4.0#



#51  
Chlorobenzene  
Concen: 26.345 ug/L  
RT: 11.652 min Scan# 1599  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion:112 Resp: 126070  
Ion Ratio Lower Upper  
112 100  
114 32.7 23.0 42.8  
77 54.7 41.8 62.6

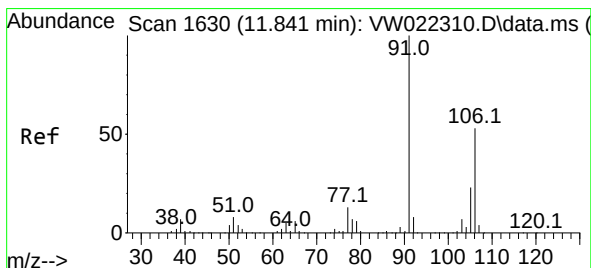
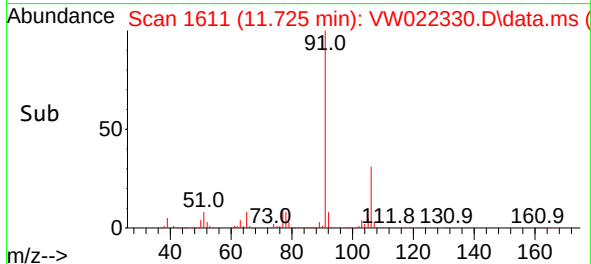
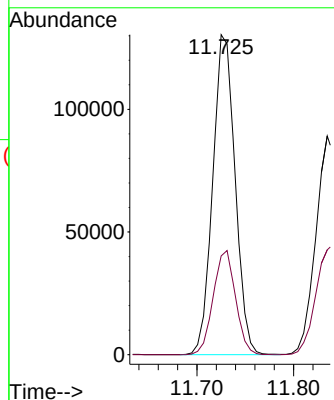
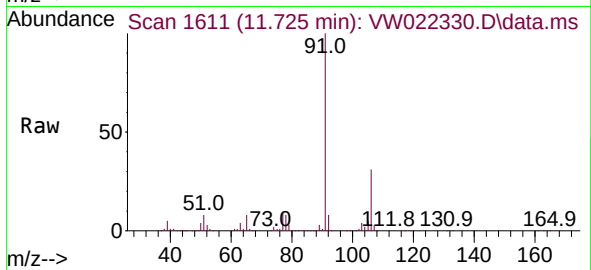




#52  
Ethylbenzene  
Concen: 27.488 ug/L  
RT: 11.725 min Scan# 1611  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

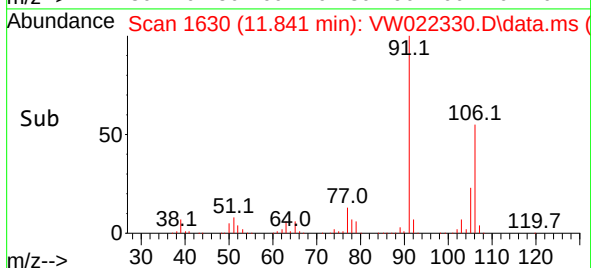
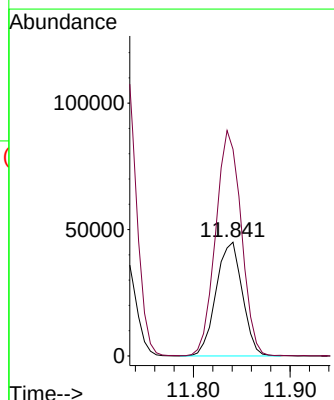
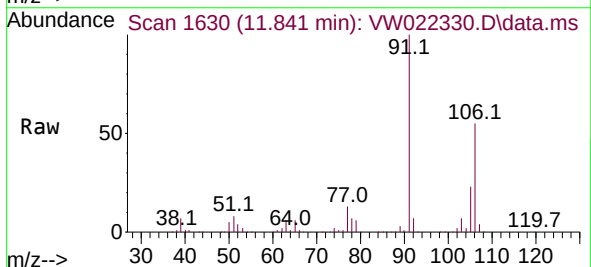
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

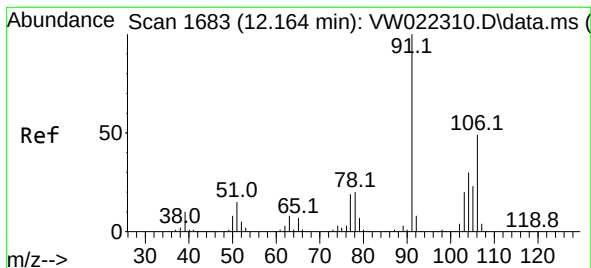
Tgt Ion: 91 Resp: 209184  
Ion Ratio Lower Upper  
91 100  
106 30.9 22.8 42.4



#53  
m,p-Xylene  
Concen: 27.130 ug/L  
RT: 11.841 min Scan# 1630  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 106 Resp: 84953  
Ion Ratio Lower Upper  
106 100  
91 181.7 135.0 250.8





#54

o-Xylene

Concen: 27.844 ug/L

RT: 12.164 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

Instrument :

MSVOA\_W

ClientSampleId :

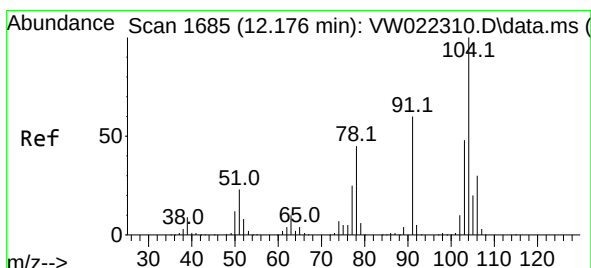
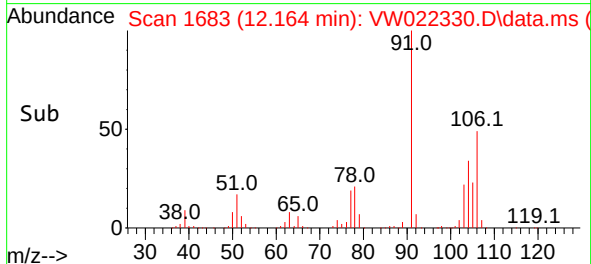
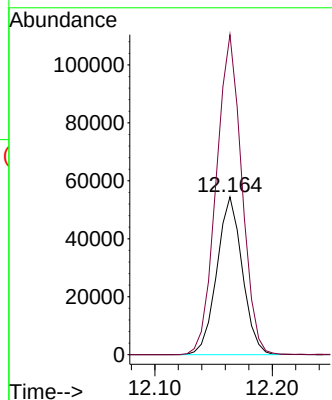
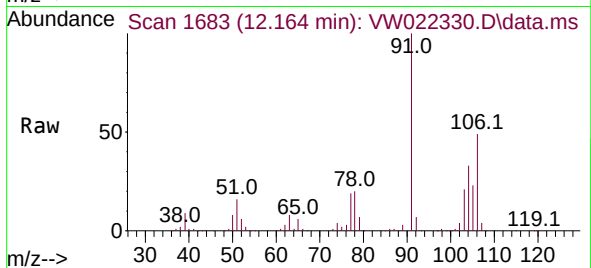
VSTD025585

Tgt Ion:106 Resp: 82038

Ion Ratio Lower Upper

106 100

91 202.8 136.9 254.3



#55

Styrene

Concen: 28.909 ug/L

RT: 12.176 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VW022330.D

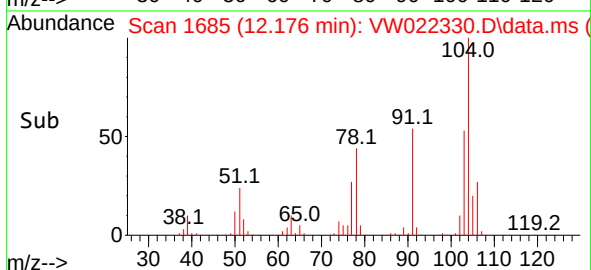
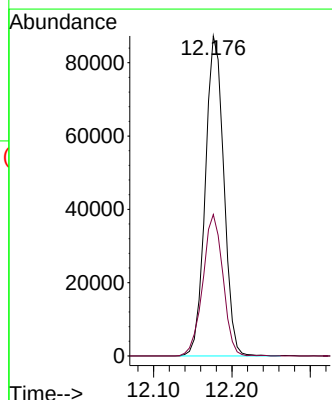
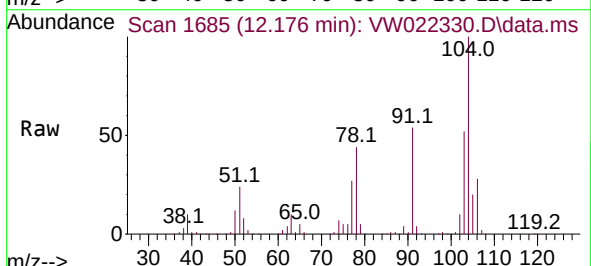
Acq: 15 Mar 2022 11:44

Tgt Ion:104 Resp: 142788

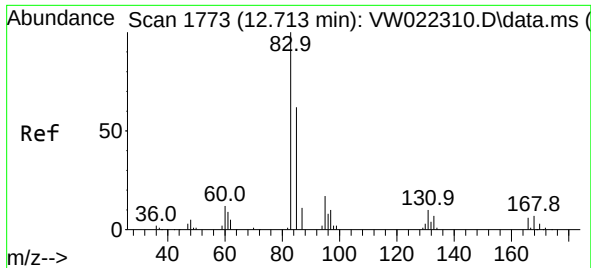
Ion Ratio Lower Upper

104 100

78 44.2 27.8 51.6







#57

1,1,2-Tetrachloroethane

Concen: 28.482 ug/L

RT: 12.713 min Scan# 1773

Delta R.T. 0.000 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025585

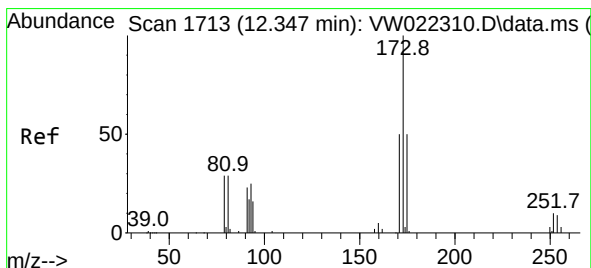
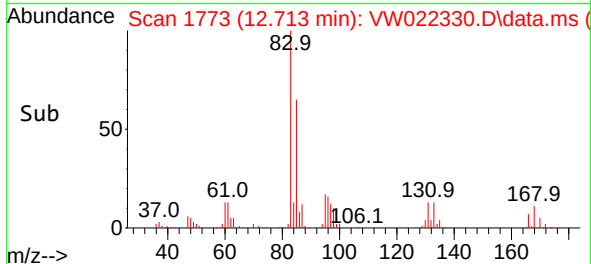
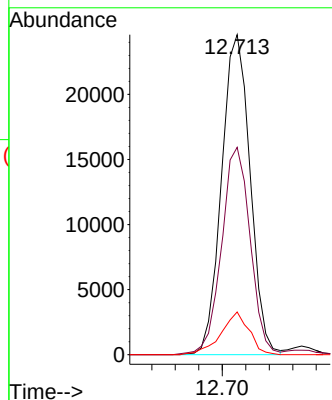
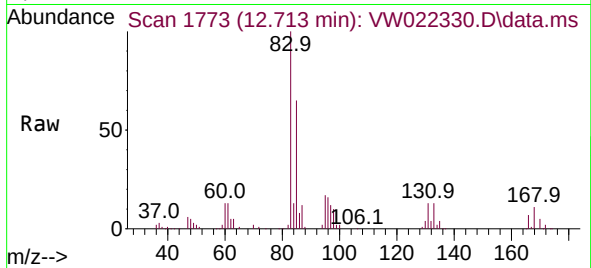
Tgt Ion: 83 Resp: 41534

Ion Ratio Lower Upper

83 100

85 64.8 44.2 82.0

131 13.4 9.4 14.0



#59

Bromoform

Concen: 25.562 ug/L

RT: 12.347 min Scan# 1713

Delta R.T. 0.000 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

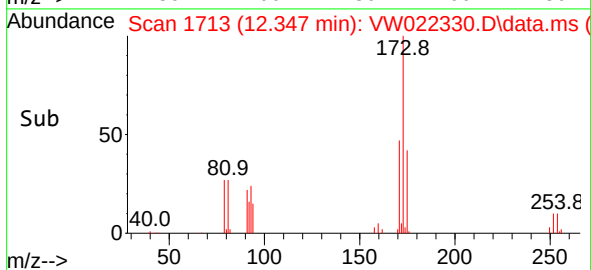
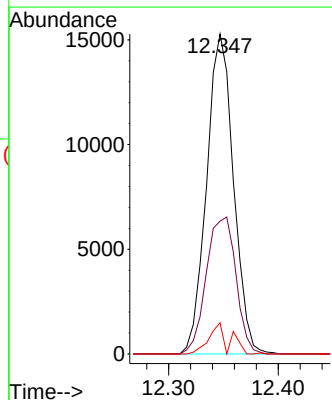
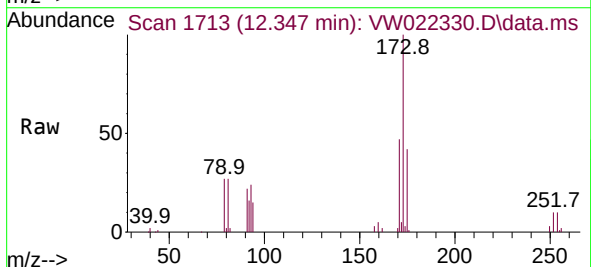
Tgt Ion:173 Resp: 26096

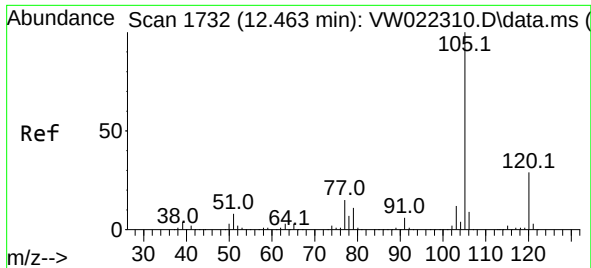
Ion Ratio Lower Upper

173 100

175 0.0 38.2 57.4#

254 4.9 5.0 7.6#

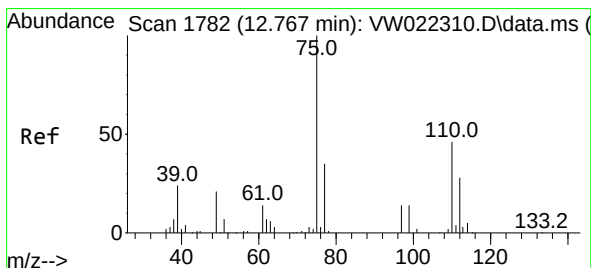
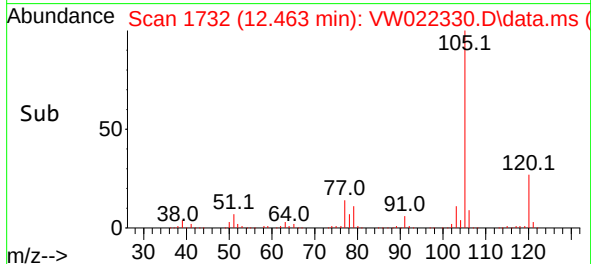
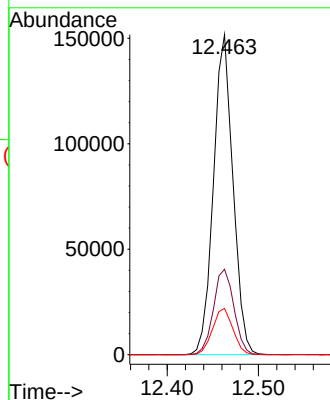
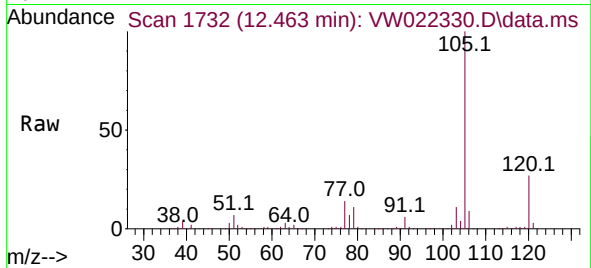




#60  
Isopropylbenzene  
Concen: 24.256 ug/L  
RT: 12.463 min Scan# 1732  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

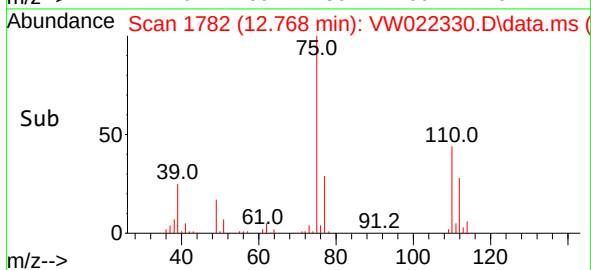
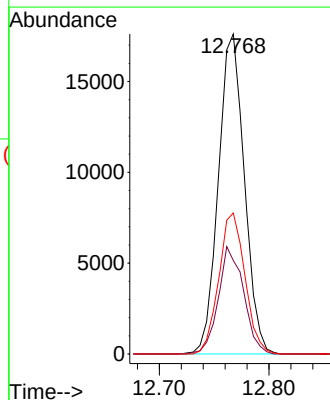
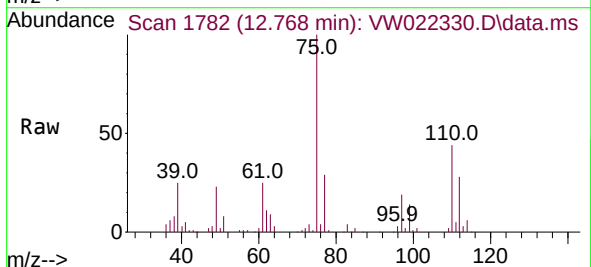
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

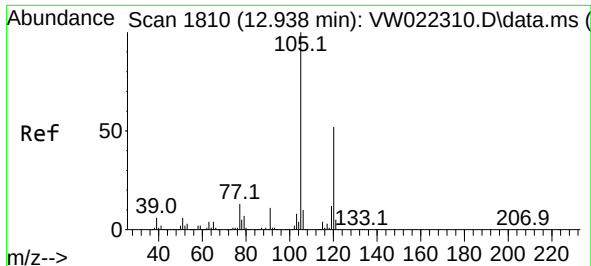
Tgt Ion:105 Resp: 224778  
Ion Ratio Lower Upper  
105 100  
120 28.1 22.1 33.1  
77 15.2 12.0 18.0



#61  
1,2,3-Trichloropropane  
Concen: 23.795 ug/L  
RT: 12.768 min Scan# 1782  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion: 75 Resp: 28992  
Ion Ratio Lower Upper  
75 100  
77 32.5 27.1 40.7  
110 44.4 36.7 55.1

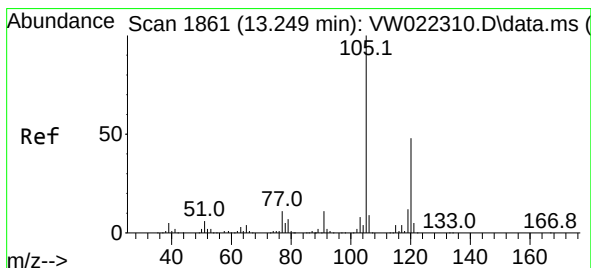
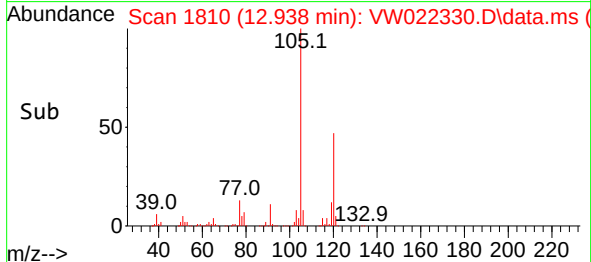
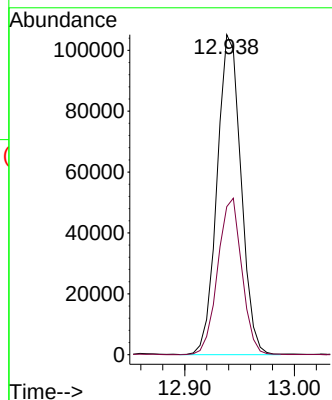
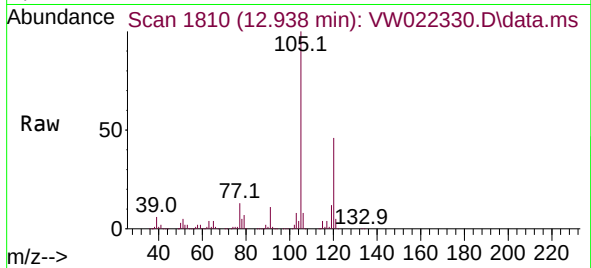




#62  
1,3,5-Trimethylbenzene  
Concen: 25.923 ug/L  
RT: 12.938 min Scan# 1810  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

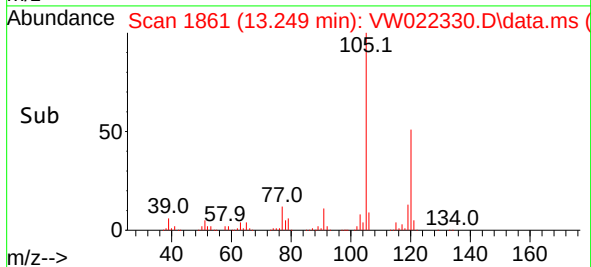
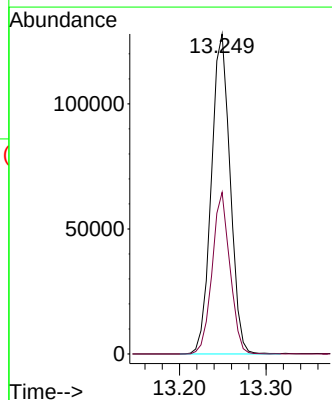
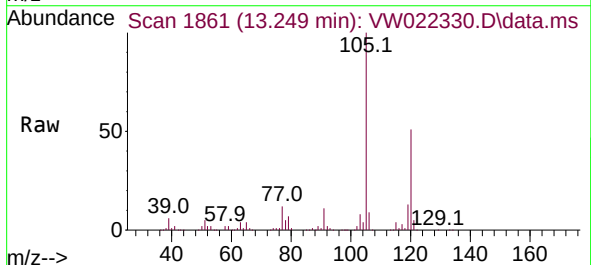
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

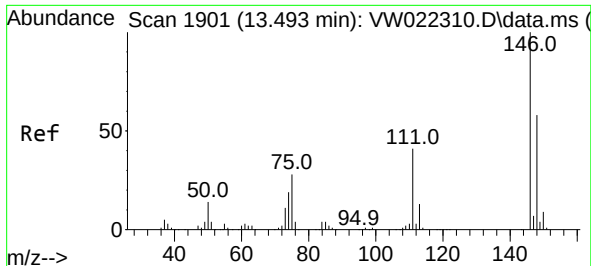
Tgt Ion:105 Resp: 159744  
Ion Ratio Lower Upper  
105 100  
120 49.1 41.5 62.3



#63  
1,2,4-Trimethylbenzene  
Concen: 25.611 ug/L  
RT: 13.249 min Scan# 1861  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion:105 Resp: 192874  
Ion Ratio Lower Upper  
105 100  
120 47.7 39.2 58.8

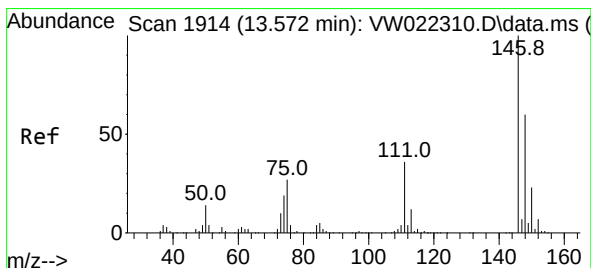
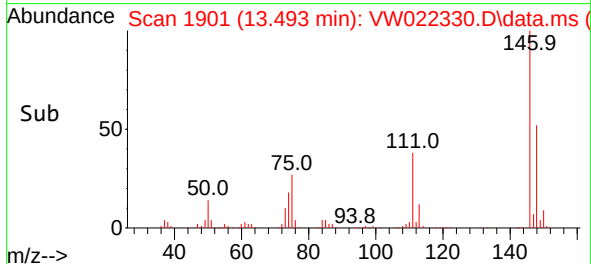
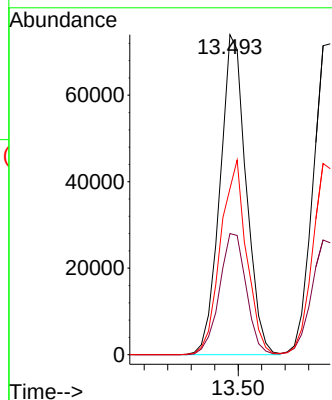
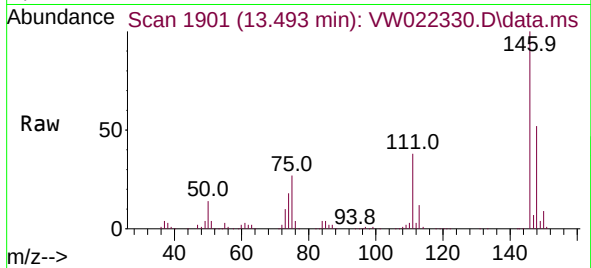




#64  
1,3-Dichlorobenzene  
Concen: 24.854 ug/L  
RT: 13.493 min Scan# 1901  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

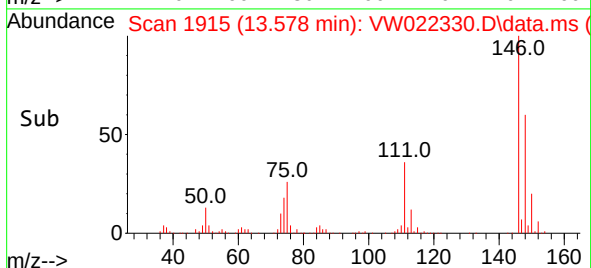
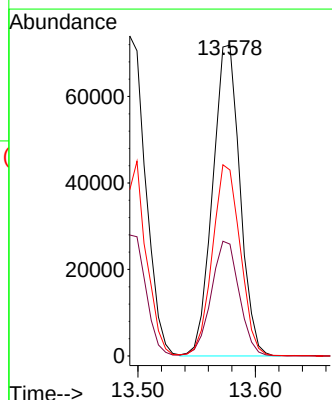
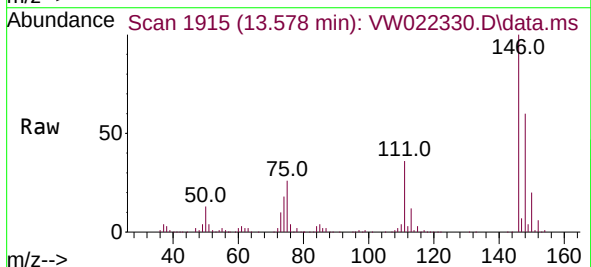
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

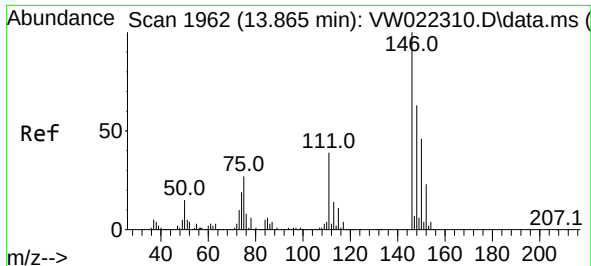
Tgt Ion:146 Resp: 114255  
Ion Ratio Lower Upper  
146 100  
111 37.8 26.9 49.9  
148 51.9 41.6 77.2



#65  
1,4-Dichlorobenzene  
Concen: 25.239 ug/L  
RT: 13.578 min Scan# 1915  
Delta R.T. 0.006 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion:146 Resp: 116271  
Ion Ratio Lower Upper  
146 100  
111 36.0 27.5 51.1  
148 59.8 42.9 79.7





#67

1,2-Dichlorobenzene

Concen: 25.899 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. 0.000 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025585

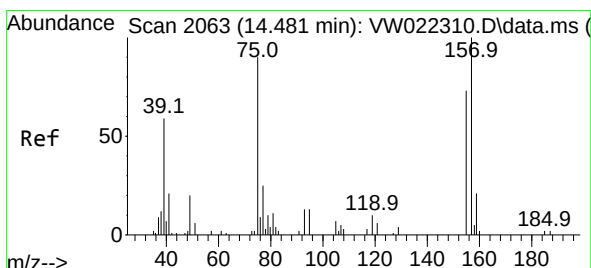
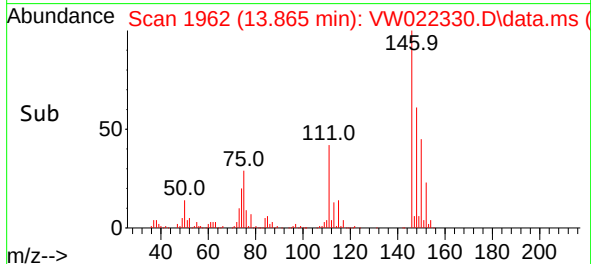
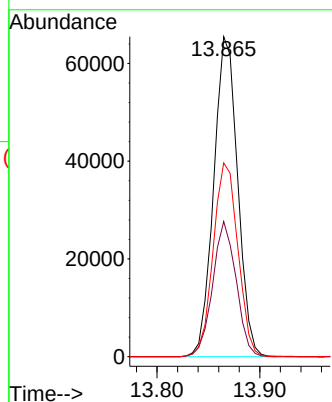
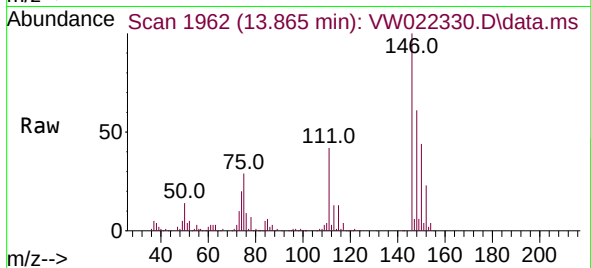
Tgt Ion:146 Resp: 105852

Ion Ratio Lower Upper

146 100

111 42.2 34.8 52.2

148 60.6 50.4 75.6



#68

1,2-Dibromo-3-chloropropane

Concen: 23.271 ug/L

RT: 14.481 min Scan# 2063

Delta R.T. 0.000 min

Lab File: VW022330.D

Acq: 15 Mar 2022 11:44

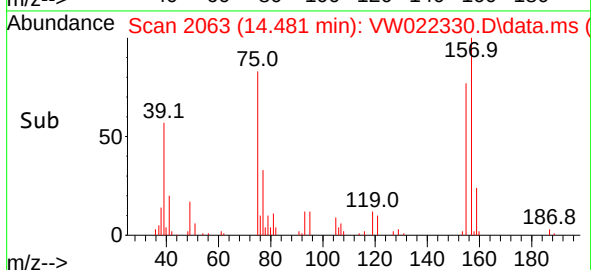
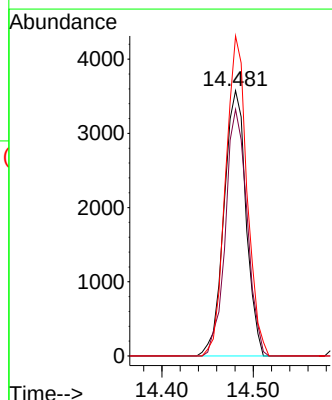
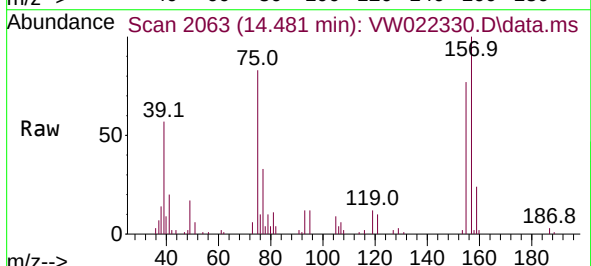
Tgt Ion: 75 Resp: 5994

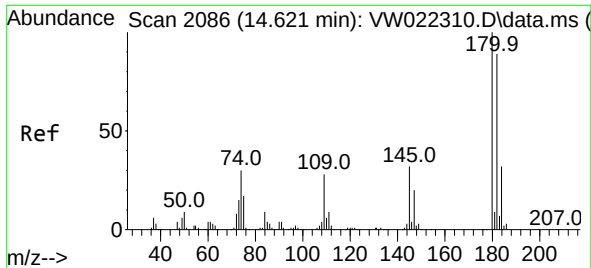
Ion Ratio Lower Upper

75 100

155 92.9 58.2 87.2#

157 120.6 80.5 120.7

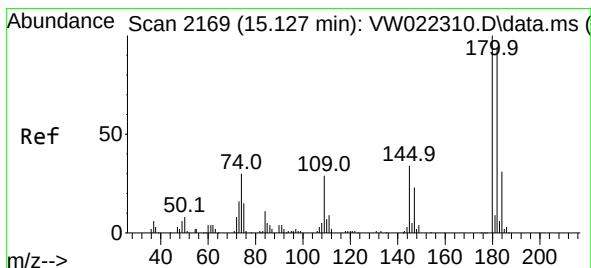
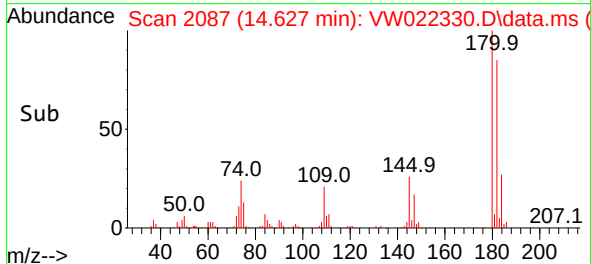
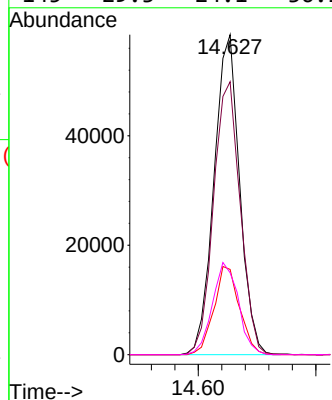
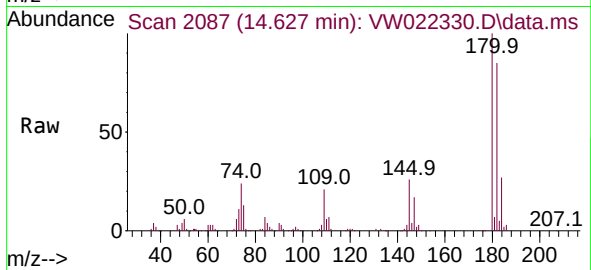




#69  
1,3,5-Trichlorobenzene  
Concen: 26.822 ug/L  
RT: 14.627 min Scan# 2086  
Delta R.T. 0.006 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

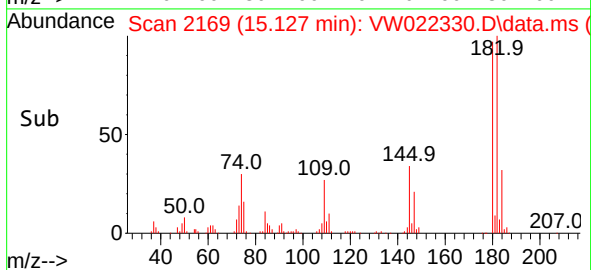
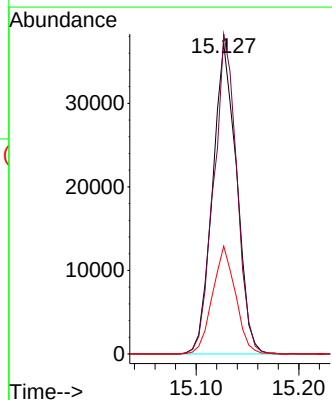
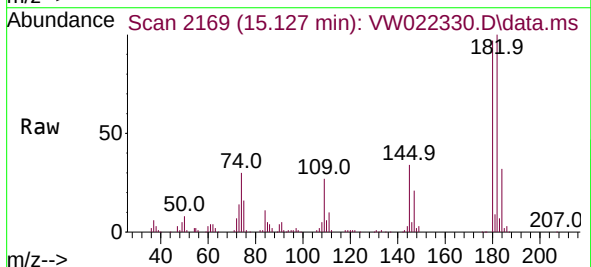
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

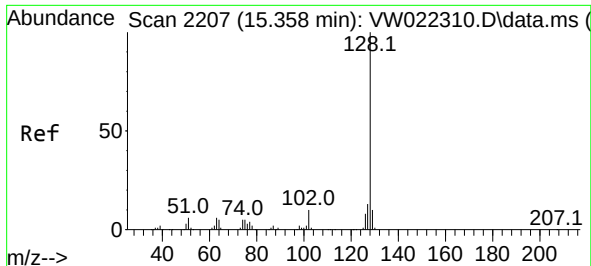
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 88500 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 89.0  | 69.4  | 104.0 |
| 184       | 27.6  | 21.8  | 32.8  |
| 145       | 29.3  | 24.1  | 36.1  |



#70  
1,2,4-trichlorobenzene  
Concen: 24.153 ug/L  
RT: 15.127 min Scan# 2169  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 60299 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 99.1  | 77.8  | 116.6 |
| 145       | 33.3  | 25.8  | 38.6  |

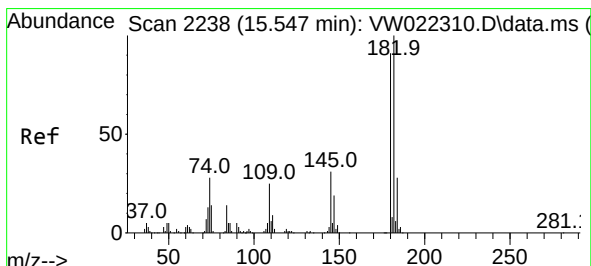
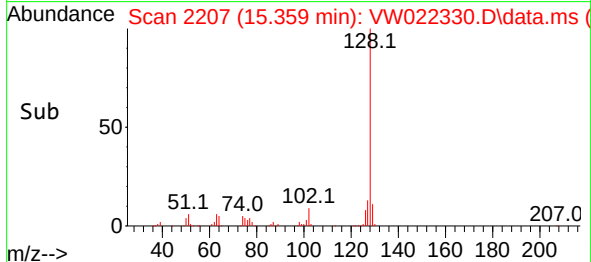
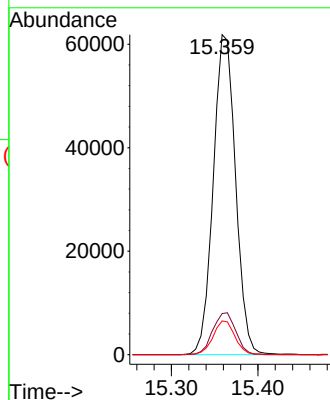
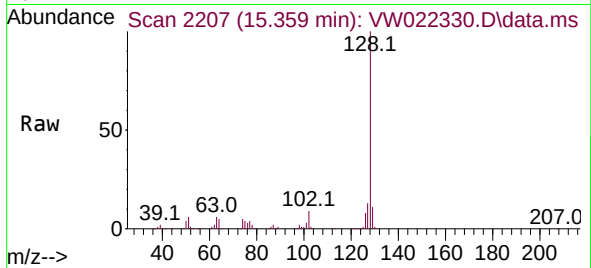




#71  
Naphthalene  
Concen: 25.114 ug/L  
RT: 15.359 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025585

Tgt Ion:128 Resp: 110682  
Ion Ratio Lower Upper  
128 100  
127 13.5 11.0 16.6  
129 10.4 8.9 13.3



#72  
1,2,3-Trichlorobenzene  
Concen: 26.139 ug/L  
RT: 15.548 min Scan# 2238  
Delta R.T. 0.000 min  
Lab File: VW022330.D  
Acq: 15 Mar 2022 11:44

Tgt Ion:180 Resp: 56445  
Ion Ratio Lower Upper  
180 100  
182 93.1 79.0 118.4  
145 32.1 28.0 42.0

