

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV091323\  
 Data File : VV032086.D  
 Acq On : 13 Sep 2023 19:01  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Sep 14 06:25:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082323WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 14 06:19:55 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.539   | 114   | 289731   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789   | 117   | 280788   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.188  | 152   | 146196   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 70639    | 38.957   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 77.920%  |
| 7) Chloroethane-d5            | 1.529   | 69    | 61980    | 38.993   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 77.980%  |
| 11) 1,1-Dichloroethene-d2     | 2.060   | 65    | 30430    | 35.840   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 71.680%  |
| 21) 2-Butanone-d5             | 3.789   | 46    | 142124   | 99.659   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 99.660%  |
| 24) Chloroform-d              | 4.252   | 84    | 155702   | 39.286   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 78.580%  |
| 26) 1,2-Dichloroethane-d4     | 4.947   | 65    | 100479   | 38.203   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 76.400%  |
| 32) Benzene-d6                | 4.963   | 84    | 306641   | 40.022   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 80.040%  |
| 36) 1,2-Dichloropropane-d6    | 5.992   | 67    | 102551   | 41.584   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 83.160%  |
| 41) Toluene-d8                | 7.246   | 98    | 280182   | 39.688   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 79.380%# |
| 43) trans-1,3-Dichloroprop... | 7.558   | 79    | 50032    | 39.142   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 78.280%  |
| 47) 2-Hexanone-d5             | 8.027   | 63    | 96158    | 127.218  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 127.220% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.156  | 84    | 144702   | 45.407   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 90.820%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.564  | 152   | 106308   | 39.889   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 79.780%# |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105   | 85    | 74412    | 42.188   | ug/L   | 96       |
| 3) Chloromethane              | 1.217   | 50    | 89994    | 50.036   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.282   | 62    | 91342    | 47.555   | ug/L   | 98       |
| 6) Bromomethane               | 1.484   | 94    | 53298    | 47.127   | ug/L   | 100      |
| 8) Chloroethane               | 1.548   | 64    | 61899    | 48.491   | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 1.712   | 101   | 126373   | 45.134   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069   | 101   | 77532    | 45.861   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.069   | 96    | 69976    | 46.083   | ug/L   | 87       |
| 13) Acetone                   | 2.114   | 43    | 105279   | 82.942   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.240   | 76    | 150030   | 43.361   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.375   | 43    | 133592   | 59.012   | ug/L   | 98       |
| 16) Methylene chloride        | 2.449   | 84    | 101107   | 51.814   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.696   | 96    | 79576    | 47.800   | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 2.706   | 73    | 350319   | 49.791   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.114   | 63    | 191348   | 51.288   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.818   | 96    | 104326   | 49.950   | ug/L   | 98       |
| 22) 2-Butanone                | 3.870   | 43    | 181866   | 108.280  | ug/L   | 95       |
| 23) Bromochloromethane        | 4.150   | 128   | 51443    | 50.768   | ug/L   | 97       |
| 25) Chloroform                | 4.281   | 83    | 189625   | 48.885   | ug/L   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW091323\  
 Data File : VW032086.D  
 Acq On : 13 Sep 2023 19:01  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

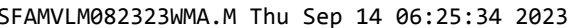
Instrument :  
 MSVOA\_V  
 ClientSampleId :

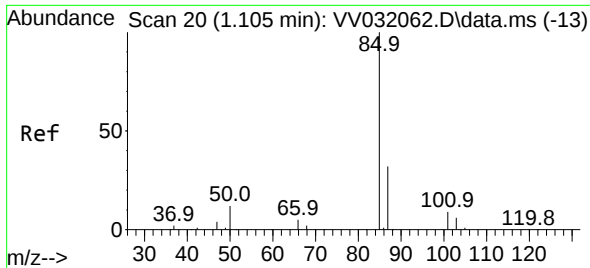
Quant Time: Sep 14 06:25:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082323WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 14 06:19:55 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.043  | 62   | 148992   | 48.754  | ug/L  | 98       |
| 29) Cyclohexane               | 4.587  | 56   | 141251   | 48.315  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 4.516  | 97   | 154088   | 47.047  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 4.738  | 117  | 124037   | 44.600  | ug/L  | 98       |
| 33) Benzene                   | 5.014  | 78   | 385712   | 51.125  | ug/L  | 100      |
| 34) Trichloroethene           | 5.838  | 95   | 103475   | 44.846  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.053  | 83   | 136594   | 44.507  | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.095  | 63   | 114750   | 53.660  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.436  | 83   | 147314   | 48.532  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.957  | 75   | 179412   | 48.256  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.162  | 43   | 396974   | 116.957 | ug/L  | 98       |
| 42) Toluene                   | 7.320  | 91   | 411395   | 49.571  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.583  | 75   | 163784   | 45.849  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 110930   | 51.345  | ug/L  | 97       |
| 46) Tetrachloroethene         | 7.908  | 164  | 66450    | 45.865  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.079  | 43   | 291993   | 112.650 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.182  | 129  | 105048   | 47.317  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.284  | 107  | 111982   | 49.487  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.818  | 112  | 275402   | 49.941  | ug/L  | 99       |
| 52) Ethylbenzene              | 8.950  | 91   | 477464   | 48.568  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.075  | 106  | 173372   | 47.498  | ug/L  | 98       |
| 54) o-Xylene                  | 9.481  | 106  | 177170   | 48.803  | ug/L  | 100      |
| 55) Styrene                   | 9.500  | 104  | 313374   | 48.829  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.181 | 83   | 180797   | 59.116  | ug/L  | 100      |
| 59) Bromoform                 | 9.670  | 173  | 72421    | 47.770  | ug/L  | 100      |
| 60) Isopropylbenzene          | 9.870  | 105  | 483255   | 49.352  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 150586   | 54.519  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.480 | 105  | 391758   | 47.555  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.853 | 105  | 395166   | 47.684  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.120 | 146  | 214371   | 48.849  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.214 | 146  | 218463   | 48.957  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 218377   | 50.219  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.368 | 75   | 40152    | 48.396  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.587 | 180  | 142009   | 44.390  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 140269   | 45.678  | ug/L  | 99       |
| 71) Naphthalene               | 13.442 | 128  | 493565   | 50.307  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.683 | 180  | 138089   | 46.928  | ug/L  | 100      |

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082323WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Sep 14 06:19:55 2023  
Response via : Initial Calibration

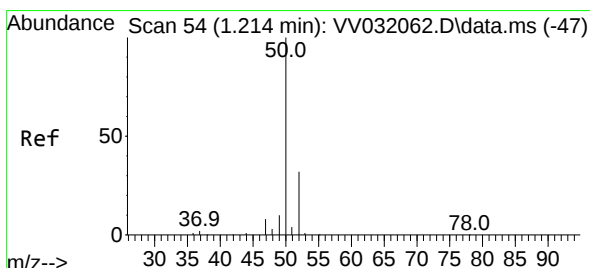
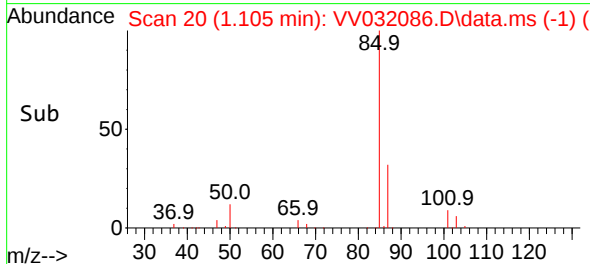
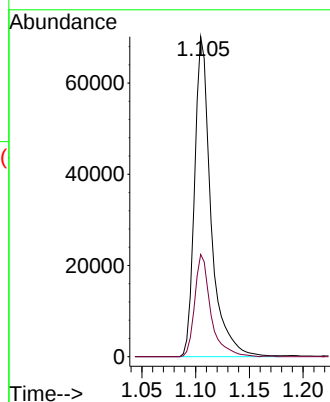
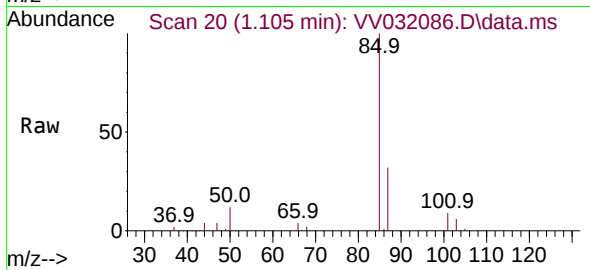




#2  
 Dichlorodifluoromethane  
 Concen: 42.188 ug/L  
 RT: 1.105 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VV032086.D  
 Acq: 13 Sep 2023 19:01

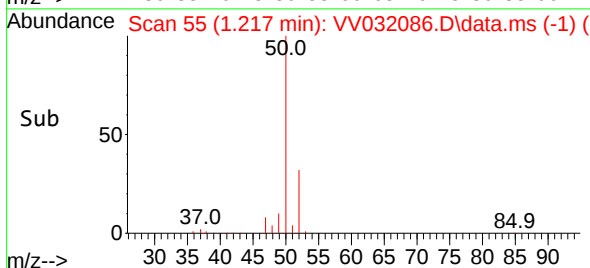
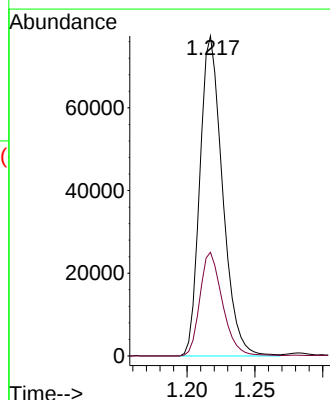
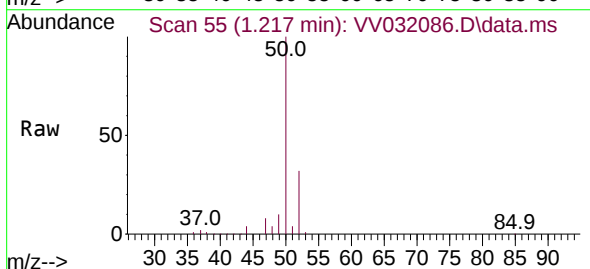
Instrument :  
 MSVOA\_V  
 ClientSampleId :

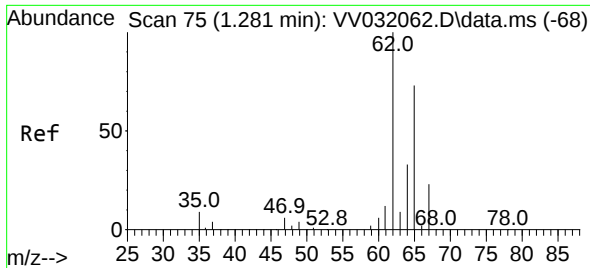
Tgt Ion: 85 Resp: 74412  
 Ion Ratio Lower Upper  
 85 100  
 87 31.3 26.8 40.2



#3  
 Chloromethane  
 Concen: 50.036 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. 0.003 min  
 Lab File: VV032086.D  
 Acq: 13 Sep 2023 19:01

Tgt Ion: 50 Resp: 89994  
 Ion Ratio Lower Upper  
 50 100  
 52 32.4 23.0 42.6

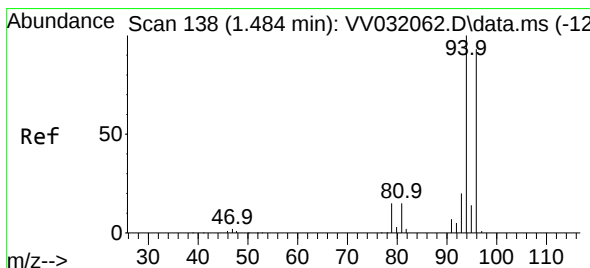
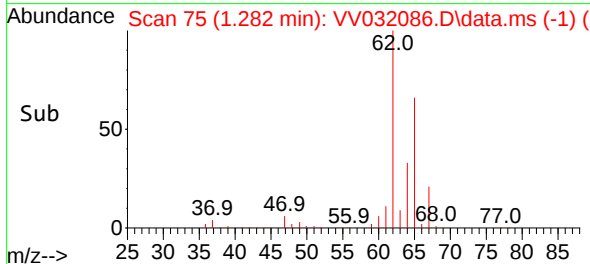
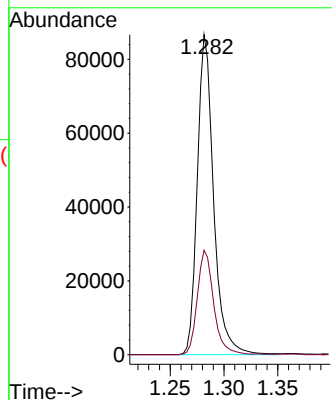
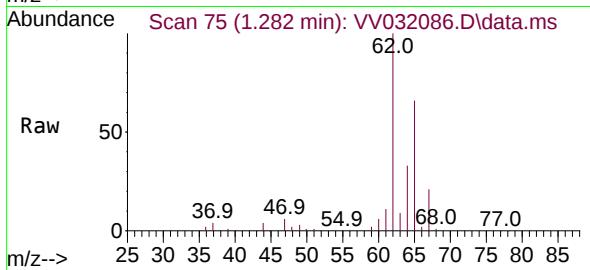




#5  
 Vinyl chloride  
 Concen: 47.555 ug/L  
 RT: 1.282 min Scan# 75  
 Delta R.T. 0.000 min  
 Lab File: VV032086.D  
 Acq: 13 Sep 2023 19:01

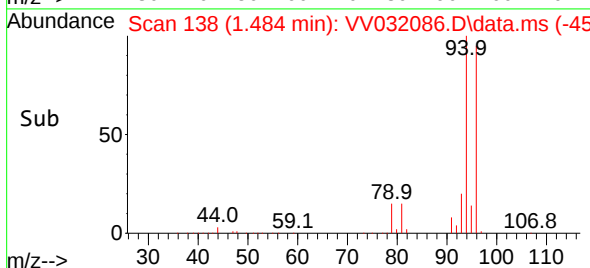
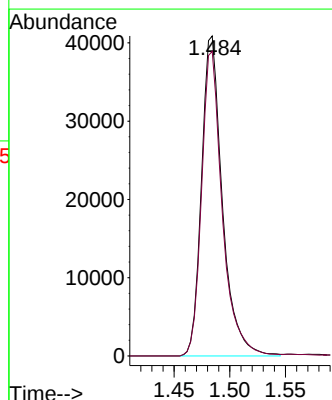
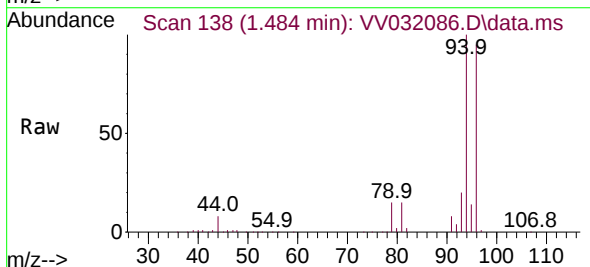
Instrument :  
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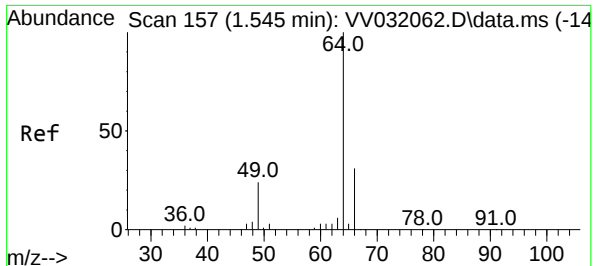
Tgt Ion: 62 Resp: 91342  
 Ion Ratio Lower Upper  
 62 100  
 64 32.6 23.6 43.8



#6  
 Bromomethane  
 Concen: 47.127 ug/L  
 RT: 1.484 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: VV032086.D  
 Acq: 13 Sep 2023 19:01

Tgt Ion: 94 Resp: 53298  
 Ion Ratio Lower Upper  
 94 100  
 96 95.2 66.4 123.4

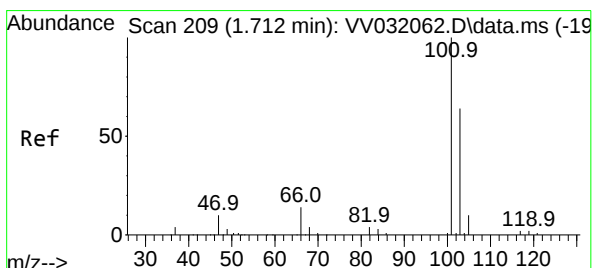
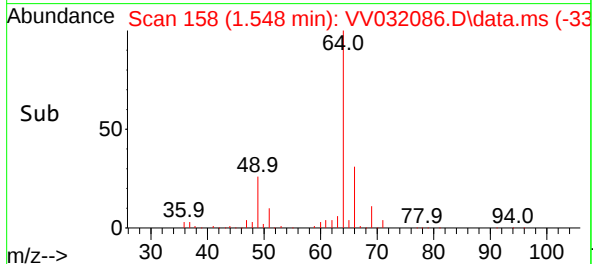
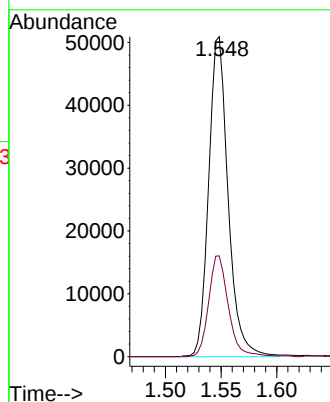
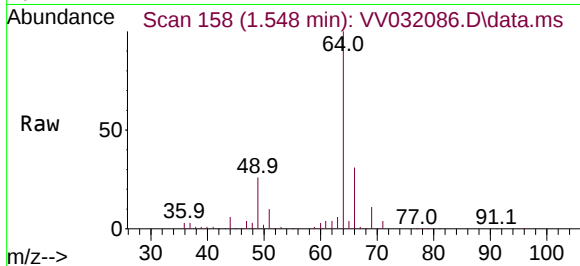




#8  
Chloroethane  
Concen: 48.491 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

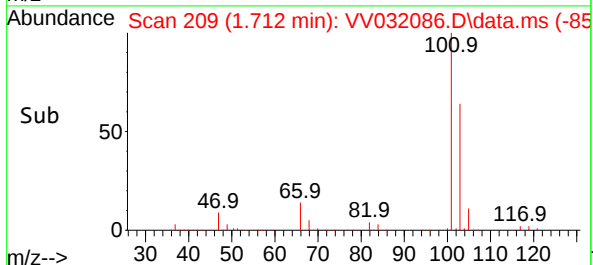
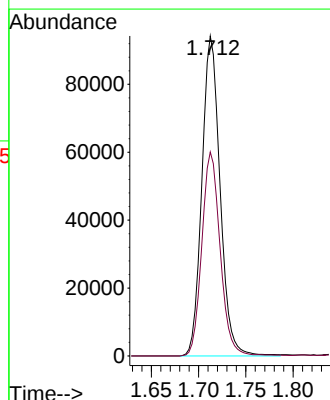
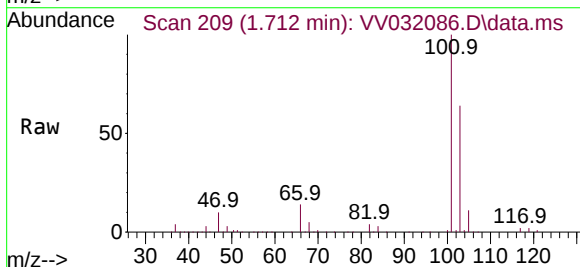
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MSVOA\_V  
ClientSampleId :

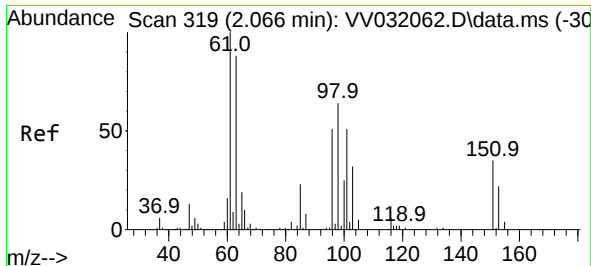
Tgt Ion: 64 Resp: 61899  
Ion Ratio Lower Upper  
64 100  
66 31.5 23.2 43.2



#9  
Trichlorofluoromethane  
Concen: 45.134 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion:101 Resp: 126373  
Ion Ratio Lower Upper  
101 100  
103 63.9 51.9 77.9

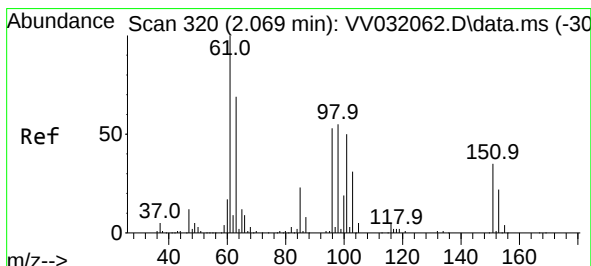
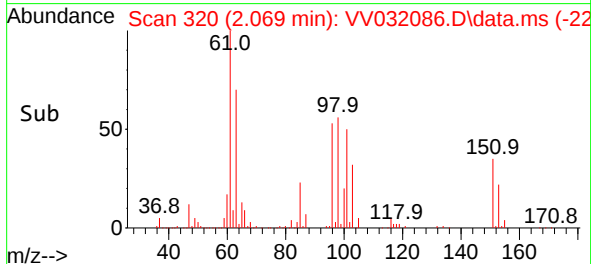
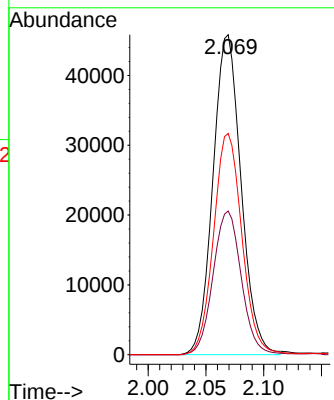
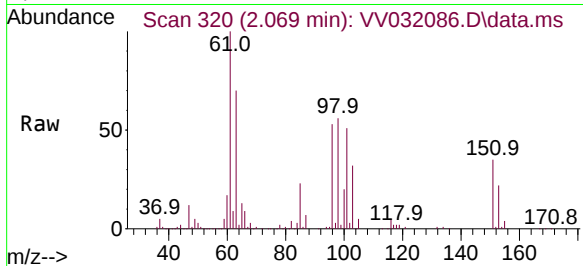




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 45.861 ug/L  
 RT: 2.069 min Scan# 319  
 Delta R.T. 0.003 min  
 Lab File: VV032086.D  
 Acq: 13 Sep 2023 19:01

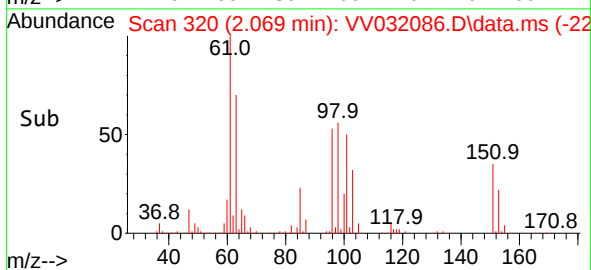
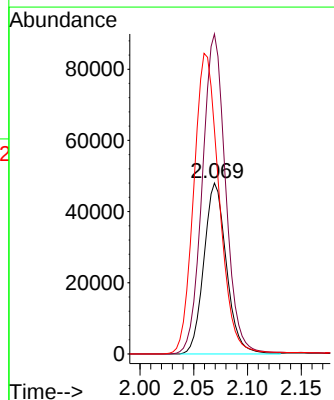
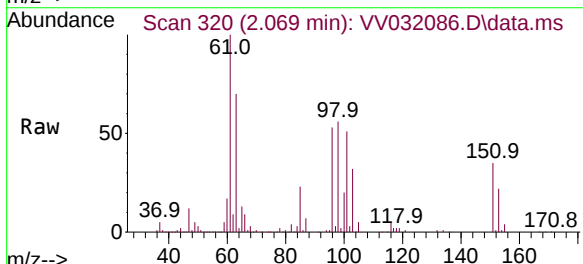
Instrument :  
 MSVOA\_V  
 ClientSampleId :

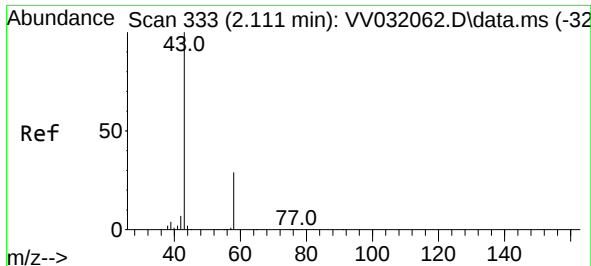
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 Ion Ratio Lower Upper  
 101 100  
 85 45.1 35.8 53.8  
 151 69.9 56.5 84.7



#12  
 1,1-Dichloroethene  
 Concen: 46.083 ug/L  
 RT: 2.069 min Scan# 320  
 Delta R.T. 0.000 min  
 Lab File: VV032086.D  
 Acq: 13 Sep 2023 19:01

Tgt Ion: 96 Resp: 69976  
 Ion Ratio Lower Upper  
 96 100  
 61 187.3 133.8 248.6  
 63 131.1 115.2 214.0





#13

Acetone

Concen: 82.942 ug/L

RT: 2.114 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

Instrument :

MSVOA\_V

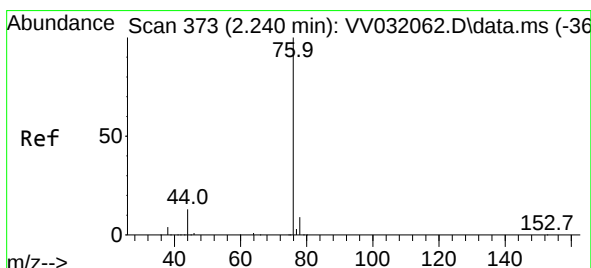
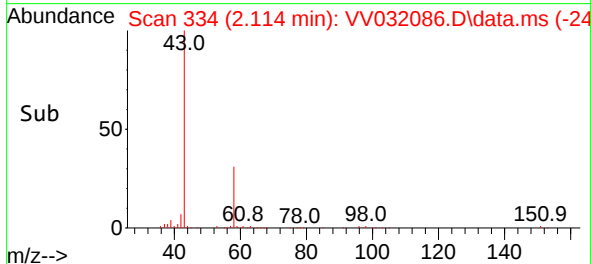
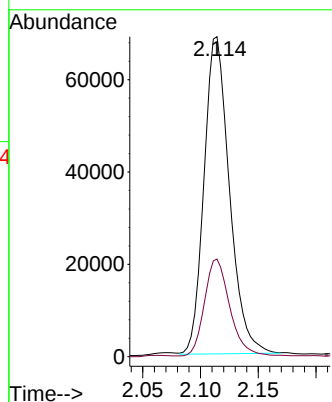
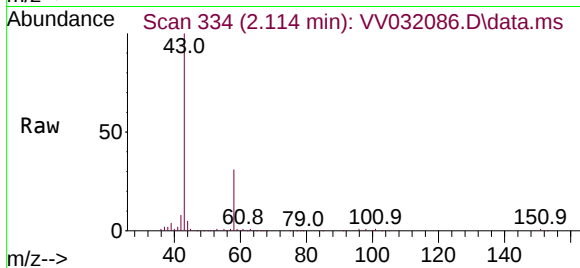
ClientSampleId :

Tgt Ion: 43 Resp: 105279

Ion Ratio Lower Upper

43 100

58 30.8 0.0 61.0



#14

Carbon disulfide

Concen: 43.361 ug/L

RT: 2.240 min Scan# 373

Delta R.T. 0.000 min

Lab File: VV032086.D

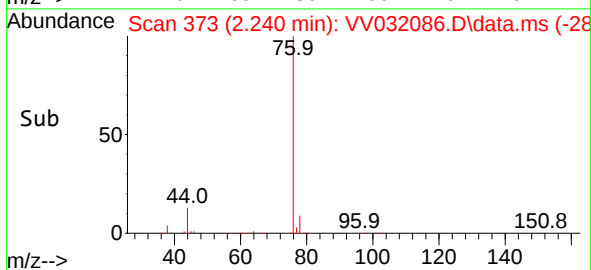
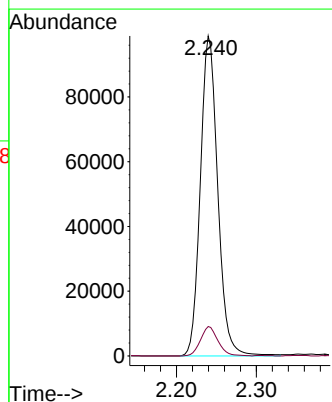
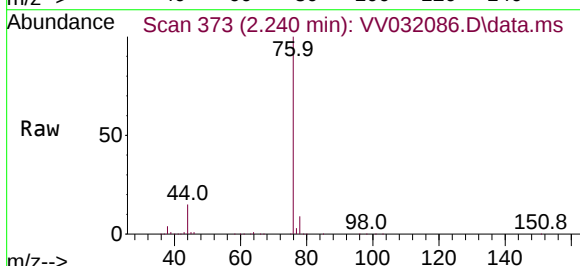
Acq: 13 Sep 2023 19:01

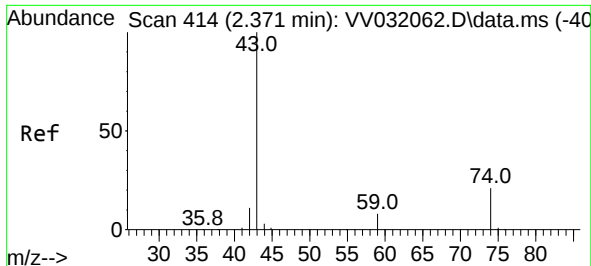
Tgt Ion: 76 Resp: 150030

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0

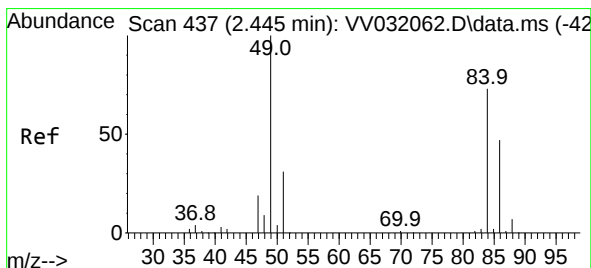
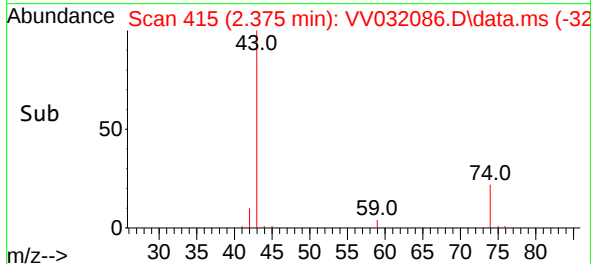
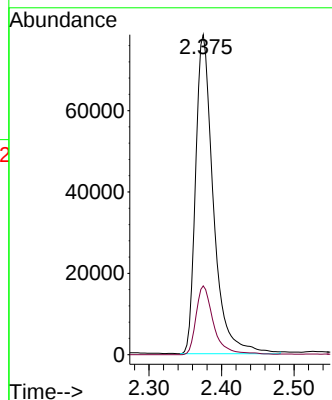
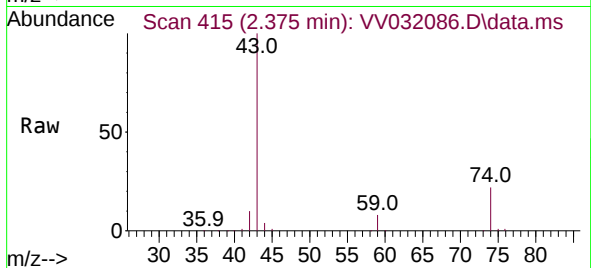




#15  
Methyl Acetate  
Concen: 59.012 ug/L  
RT: 2.375 min Scan# 414  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

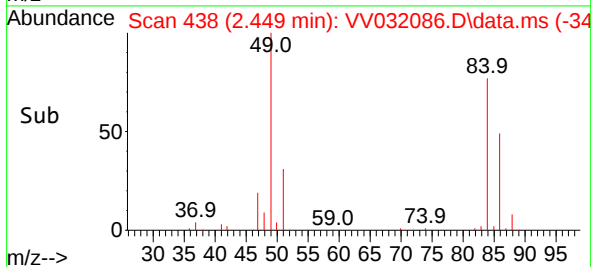
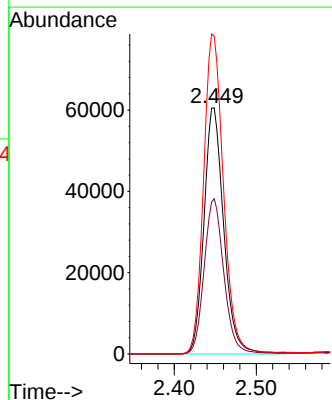
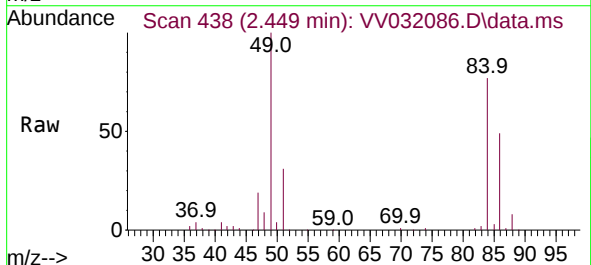
Instrument :  
MSVOA\_V  
ClientSampleId :

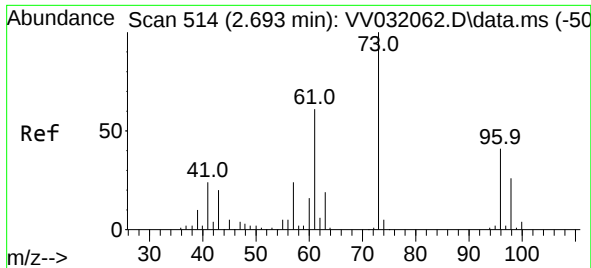
Tgt Ion: 43 Resp: 133592  
Ion Ratio Lower Upper  
43 100  
74 21.3 17.9 26.9



#16  
Methylene chloride  
Concen: 51.814 ug/L  
RT: 2.449 min Scan# 438  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion: 84 Resp: 101107  
Ion Ratio Lower Upper  
84 100  
86 63.1 44.6 82.8  
49 129.2 91.6 170.2

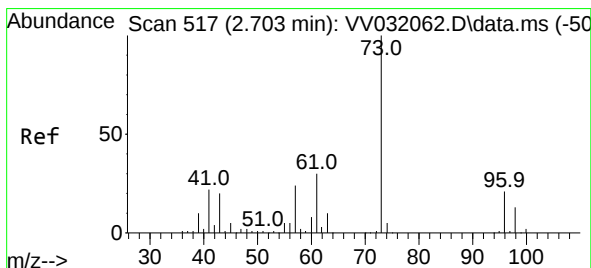
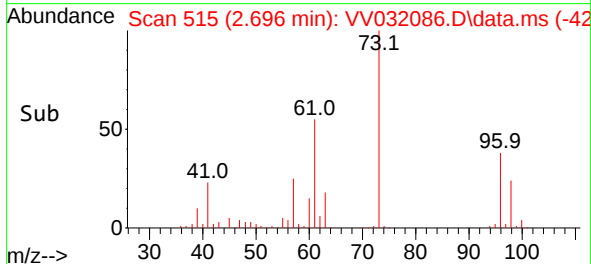
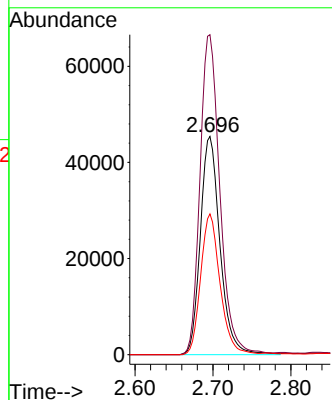
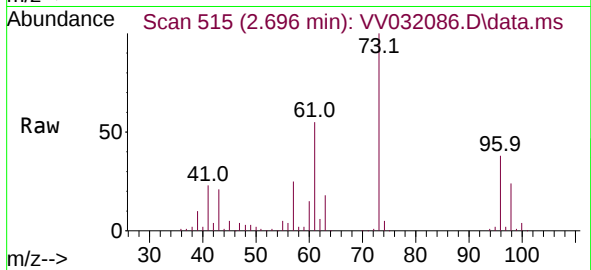




#17  
trans-1,2-Dichloroethene  
Concen: 47.800 ug/L  
RT: 2.696 min Scan# 514  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

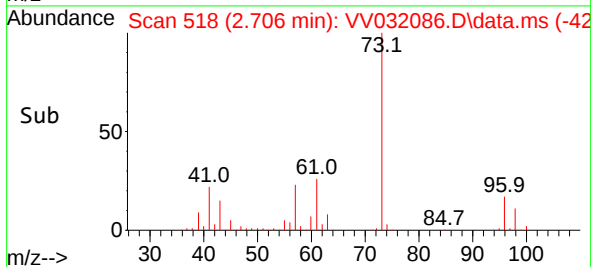
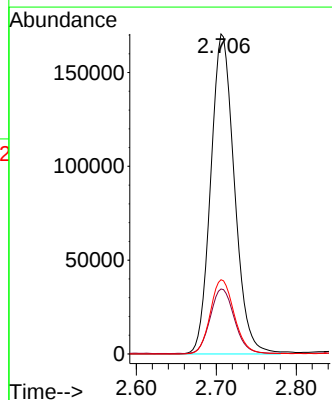
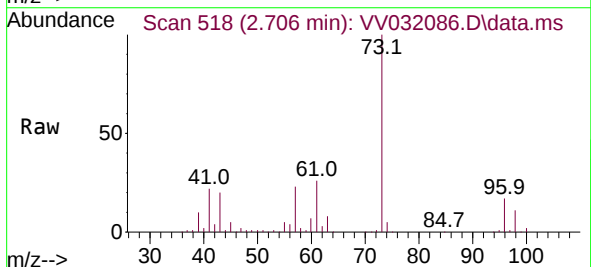
Instrument :  
MSVOA\_V  
ClientSampleId :

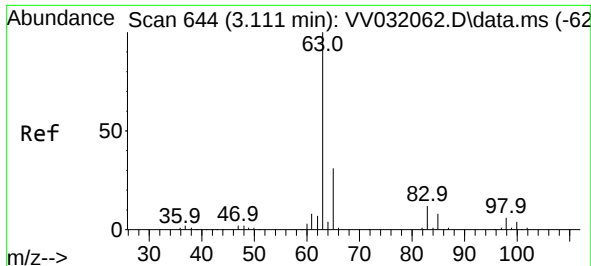
Tgt Ion: 96 Resp: 79576  
Ion Ratio Lower Upper  
96 100  
61 146.7 107.3 199.3  
98 64.5 46.3 85.9



#18  
Methyl tert-butyl Ether  
Concen: 49.791 ug/L  
RT: 2.706 min Scan# 518  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion: 73 Resp: 350319  
Ion Ratio Lower Upper  
73 100  
43 20.6 16.6 25.0  
57 23.6 17.6 26.4





#19

1,1-Dichloroethane

Concen: 51.288 ug/L

RT: 3.114 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

Instrument :

MSVOA\_V

ClientSampleId :

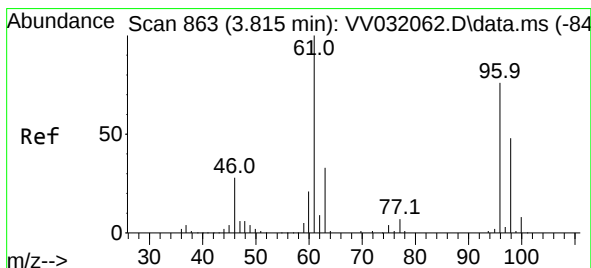
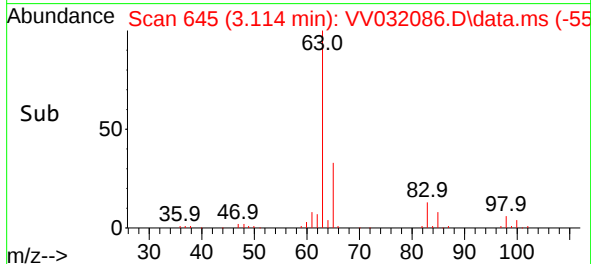
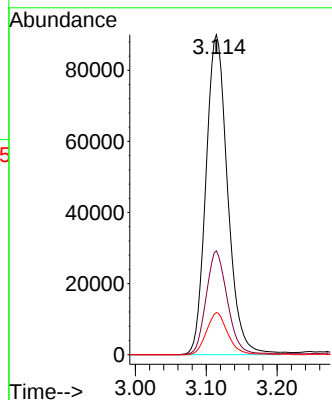
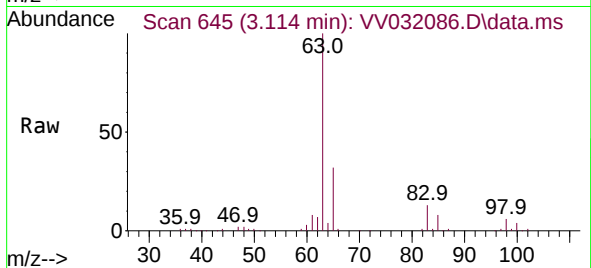
Tgt Ion: 63 Resp: 191348

Ion Ratio Lower Upper

63 100

65 32.5 22.4 41.6

83 13.2 8.7 16.1



#20

cis-1,2-Dichloroethene

Concen: 49.950 ug/L

RT: 3.818 min Scan# 864

Delta R.T. 0.003 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

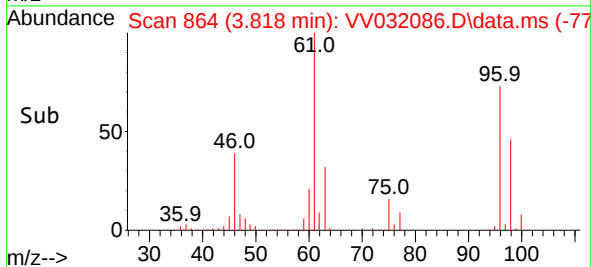
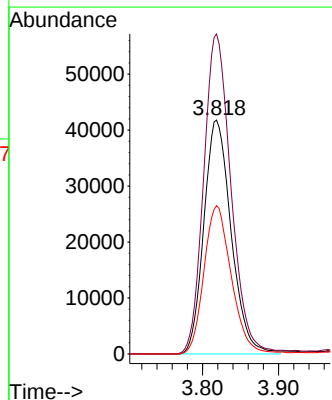
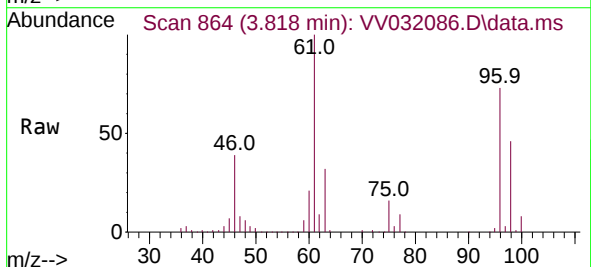
Tgt Ion: 96 Resp: 104326

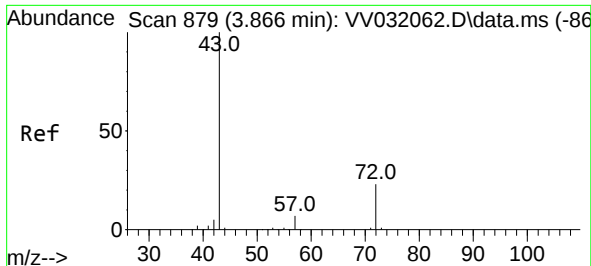
Ion Ratio Lower Upper

96 100

61 136.8 97.3 180.7

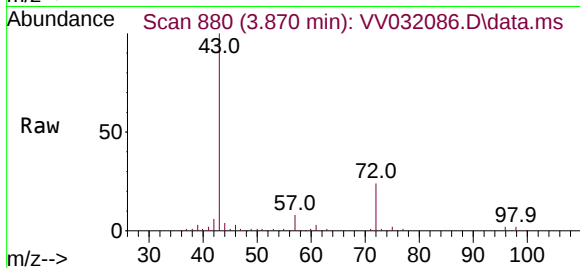
98 63.4 45.3 84.1



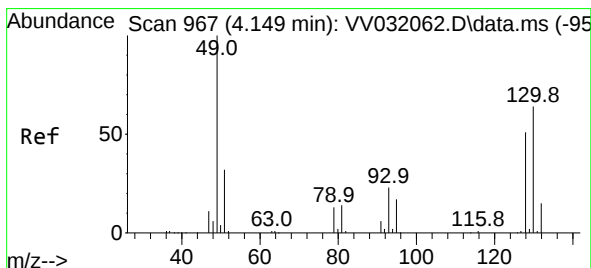
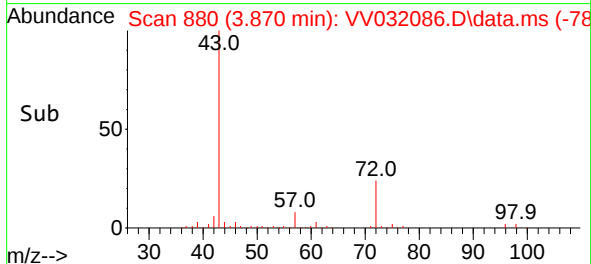
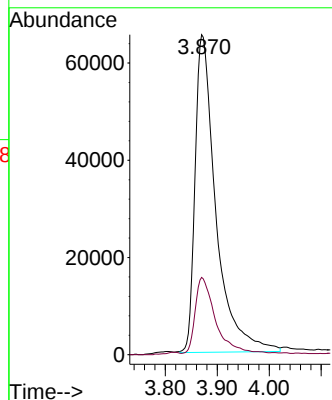


#22  
2-Butanone  
Concen: 108.280 ug/L  
RT: 3.870 min Scan# 879  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Instrument :  
MSVOA\_V  
ClientSampleId :

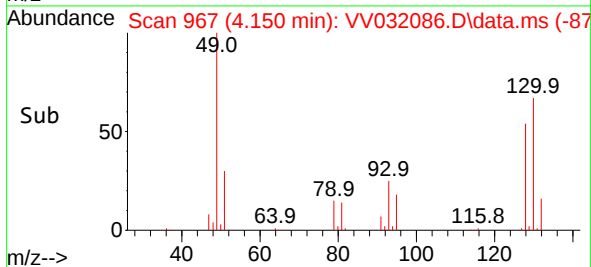
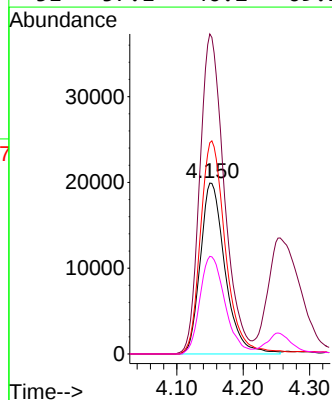
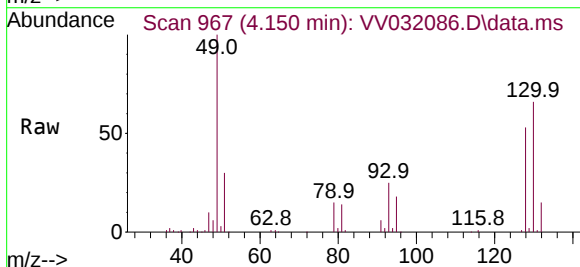


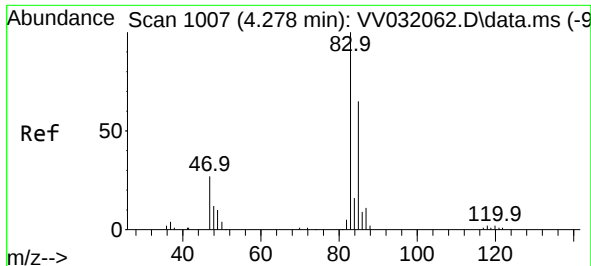
Tgt Ion: 43 Resp: 181866  
Ion Ratio Lower Upper  
43 100  
72 22.9 12.6 37.8



#23  
Bromochloromethane  
Concen: 50.768 ug/L  
RT: 4.150 min Scan# 967  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion:128 Resp: 51443  
Ion Ratio Lower Upper  
128 100  
49 187.3 127.8 237.4  
130 123.6 90.1 167.3  
51 57.1 46.2 69.2

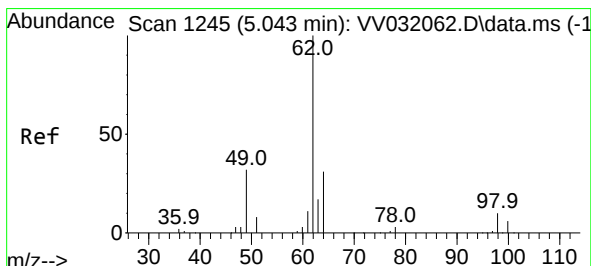
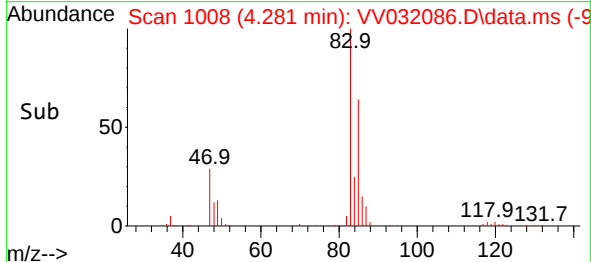
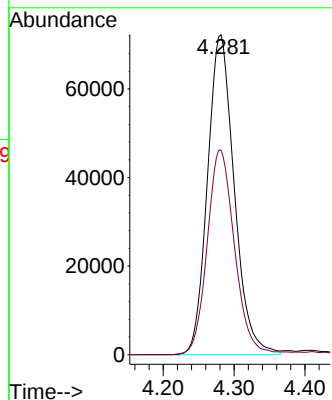
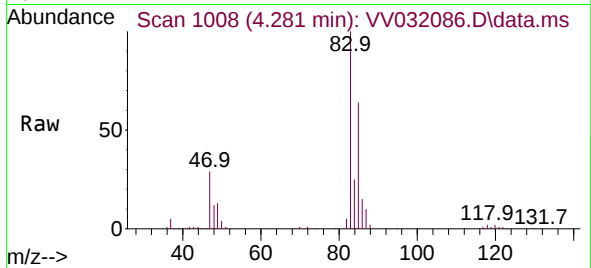




#25  
Chloroform  
Concen: 48.885 ug/L  
RT: 4.281 min Scan# 1008  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

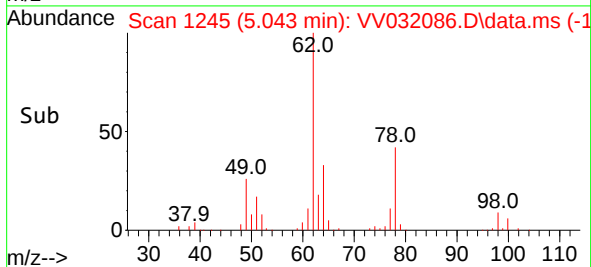
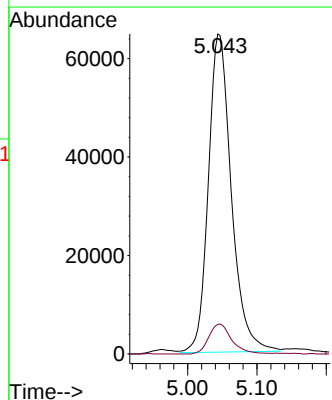
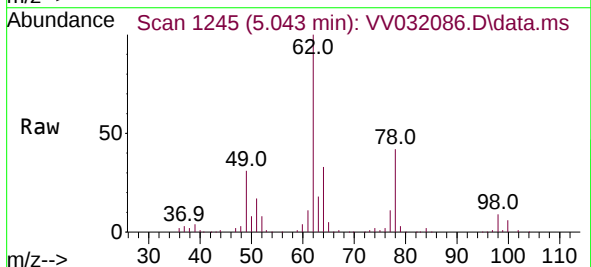
Instrument :  
MSVOA\_V  
ClientSampleId :

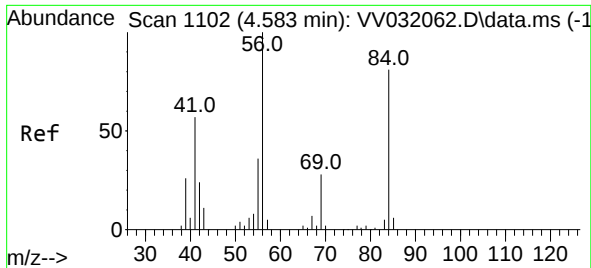
Tgt Ion: 83 Resp: 189625  
Ion Ratio Lower Upper  
83 100  
85 64.0 44.9 83.3



#27  
1,2-Dichloroethane  
Concen: 48.754 ug/L  
RT: 5.043 min Scan# 1245  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion: 62 Resp: 148992  
Ion Ratio Lower Upper  
62 100  
98 9.3 7.0 10.4





#29

Cyclohexane

Concen: 48.315 ug/L

RT: 4.587 min Scan# 1102

Delta R.T. 0.003 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

Instrument :

MSVOA\_V

ClientSampleId :

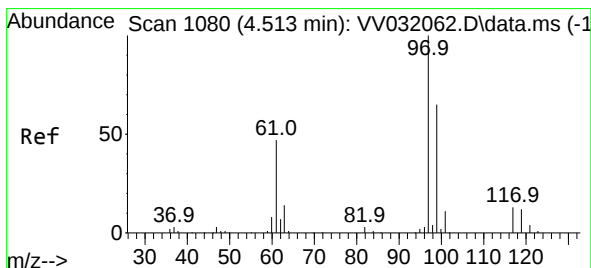
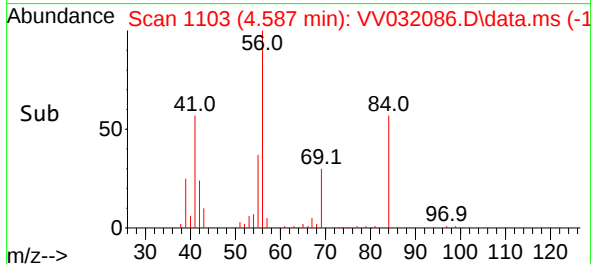
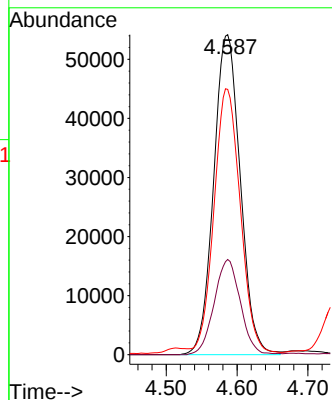
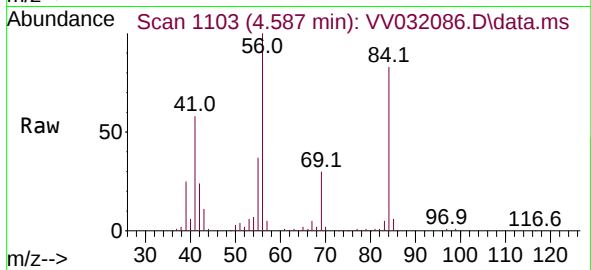
Tgt Ion: 56 Resp: 141251

Ion Ratio Lower Upper

56 100

69 29.2 24.2 36.4

84 82.1 67.5 101.3



#30

1,1,1-Trichloroethane

Concen: 47.047 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. 0.003 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

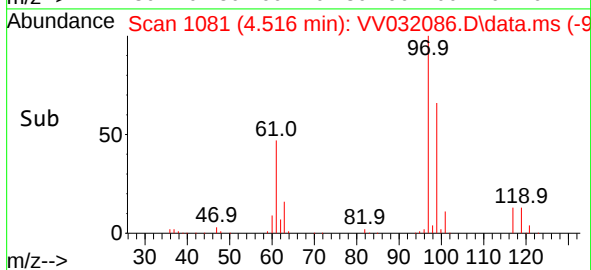
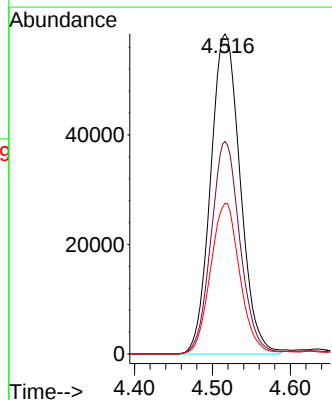
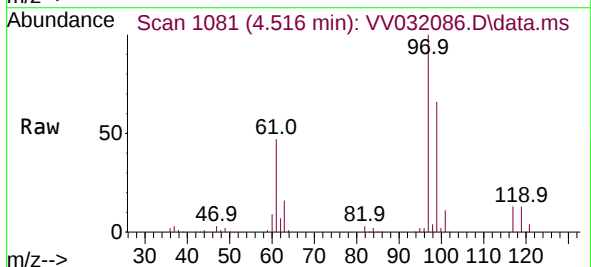
Tgt Ion: 97 Resp: 154088

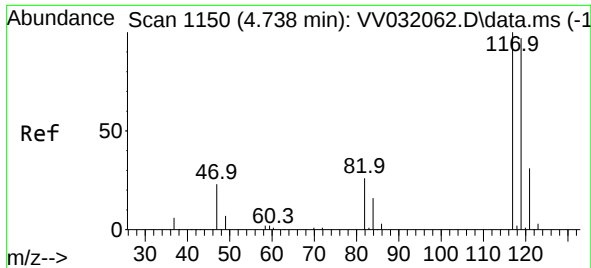
Ion Ratio Lower Upper

97 100

99 65.1 51.0 76.4

61 46.7 36.5 54.7

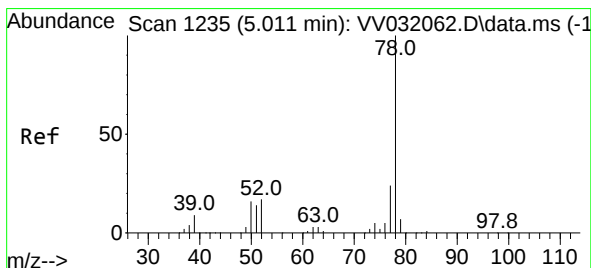
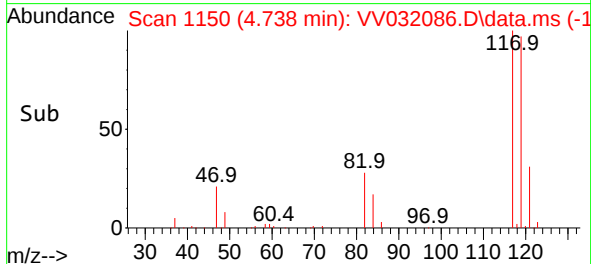
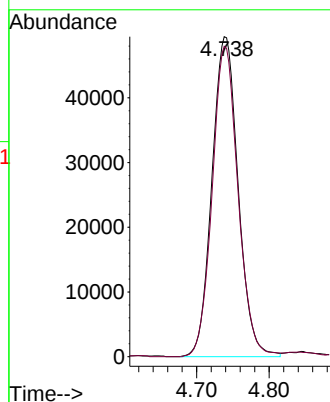
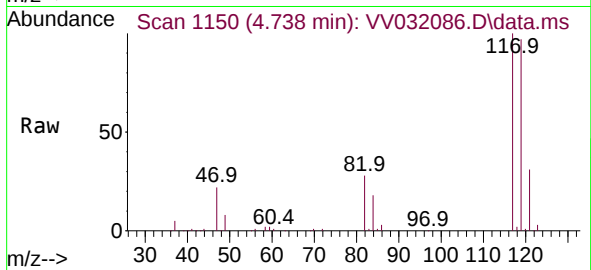




#31  
Carbon tetrachloride  
Concen: 44.600 ug/L  
RT: 4.738 min Scan# 1150  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

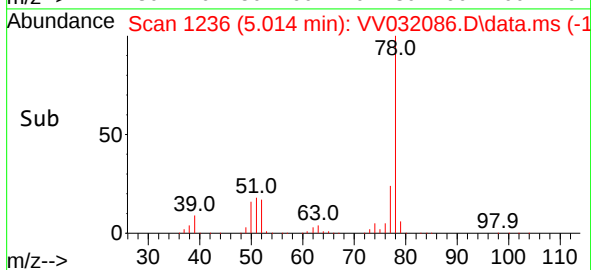
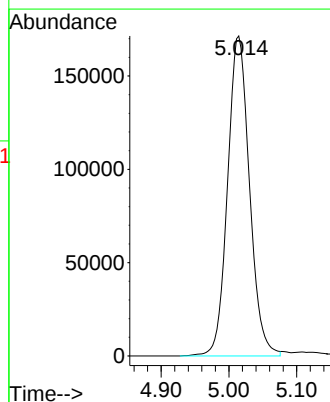
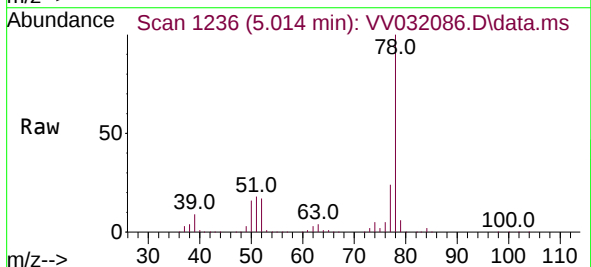
Instrument :  
MSVOA\_V  
ClientSampleId :

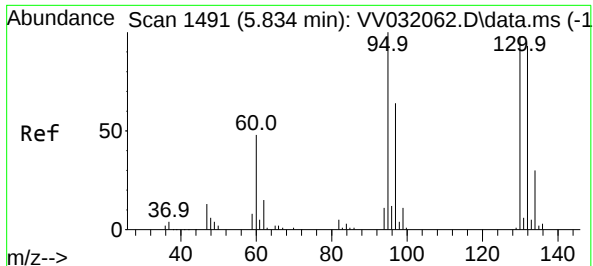
Tgt Ion:117 Resp: 124037  
Ion Ratio Lower Upper  
117 100  
119 95.8 75.4 113.2



#33  
Benzene  
Concen: 51.125 ug/L  
RT: 5.014 min Scan# 1236  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

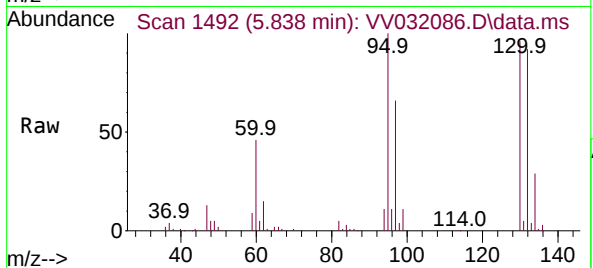
Tgt Ion: 78 Resp: 385712





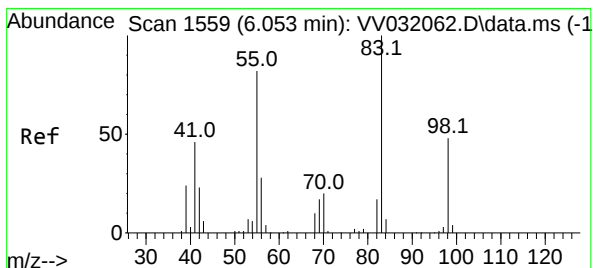
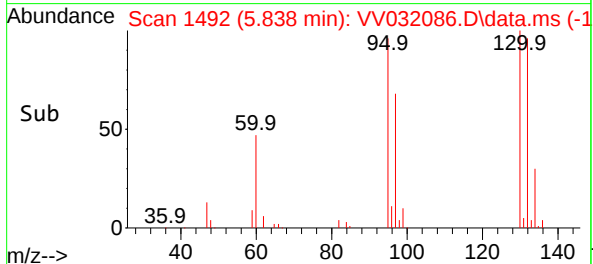
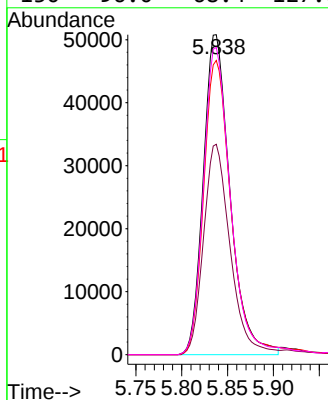
#34  
Trichloroethene  
Concen: 44.846 ug/L  
RT: 5.838 min Scan# 1491  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Instrument :  
MSVOA\_V  
ClientSampleId :



Tgt Ion: 95 Resp: 103475

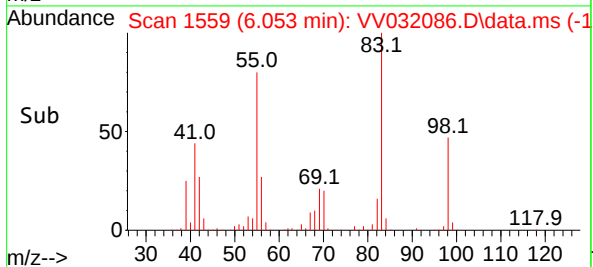
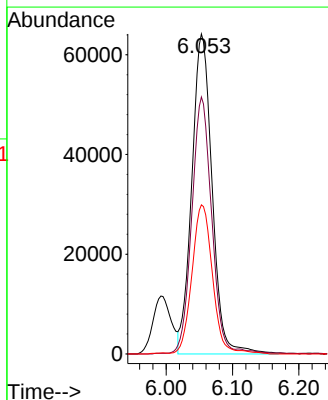
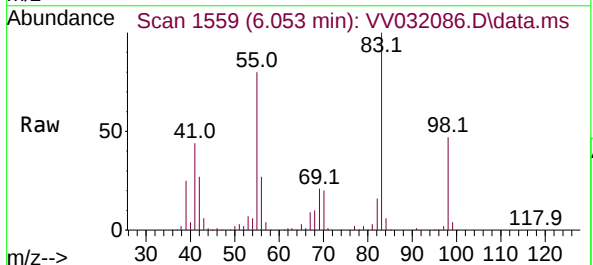
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.7  | 45.4  | 84.2  |
| 132 | 92.0  | 65.4  | 121.4 |
| 130 | 96.0  | 68.4  | 127.0 |

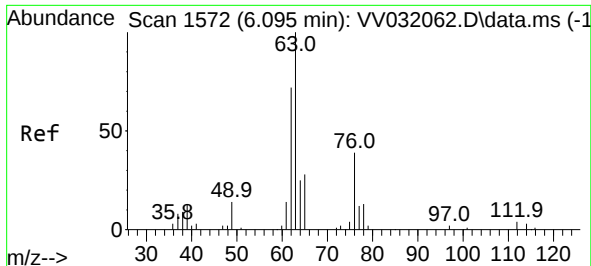


#35  
Methylcyclohexane  
Concen: 44.507 ug/L  
RT: 6.053 min Scan# 1559  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion: 83 Resp: 136594

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 77.2  | 62.2  | 93.2  |
| 98  | 45.9  | 36.7  | 55.1  |





#37

1,2-Dichloropropane

Concen: 53.660 ug/L

RT: 6.095 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

Instrument :

MSVOA\_V

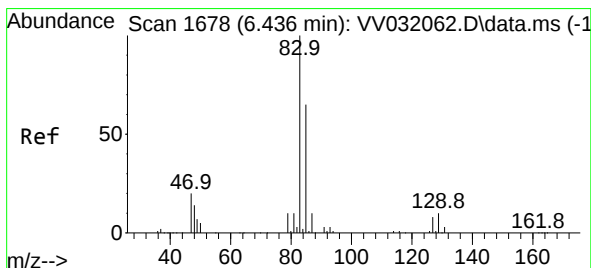
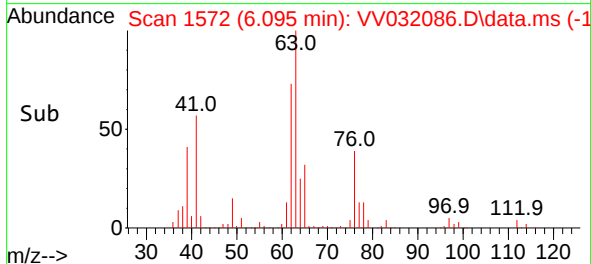
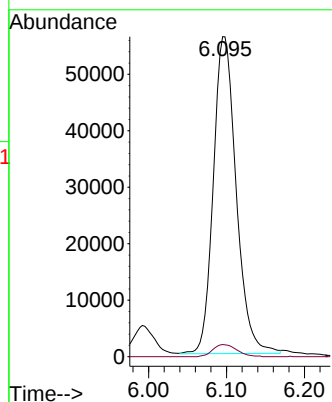
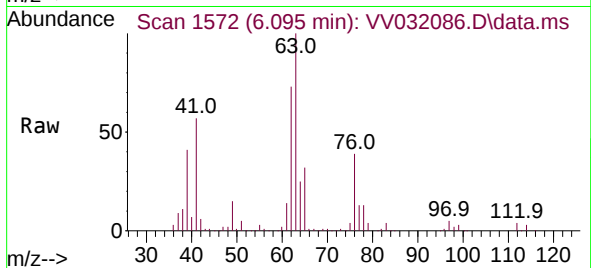
ClientSampleId :

Tgt Ion: 63 Resp: 114750

Ion Ratio Lower Upper

63 100

112 4.0 3.5 5.3



#38

Bromodichloromethane

Concen: 48.532 ug/L

RT: 6.436 min Scan# 1678

Delta R.T. 0.000 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

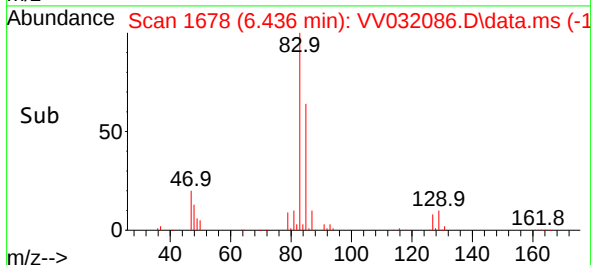
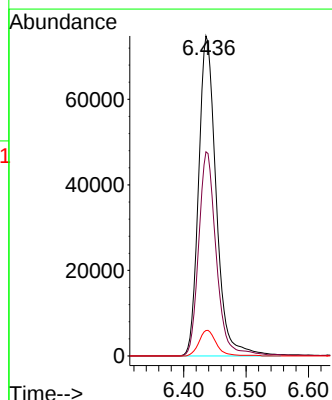
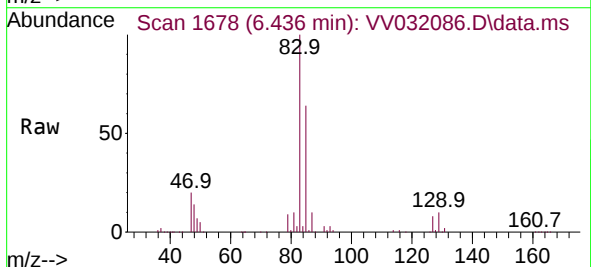
Tgt Ion: 83 Resp: 147314

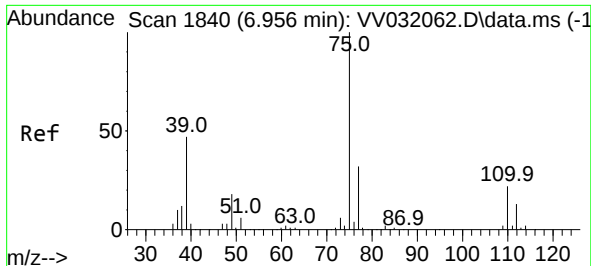
Ion Ratio Lower Upper

83 100

85 63.8 45.2 84.0

127 8.0 6.3 9.5





#39

cis-1,3-Dichloropropene

Concen: 48.256 ug/L

RT: 6.957 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

Instrument :

MSVOA\_V

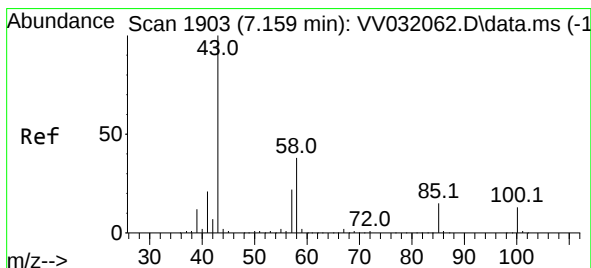
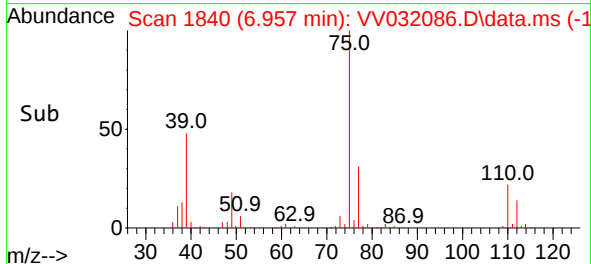
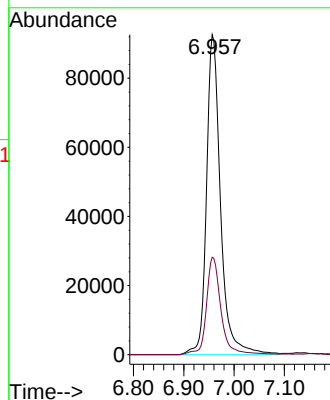
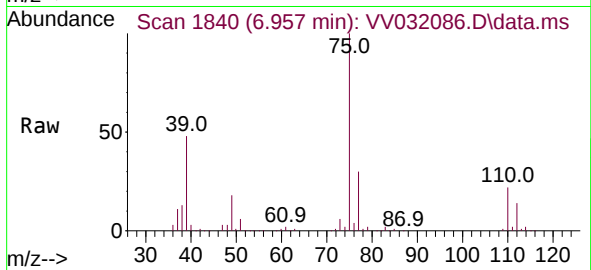
ClientSampleId :

Tgt Ion: 75 Resp: 179412

Ion Ratio Lower Upper

75 100

77 30.5 21.4 39.8



#40

4-Methyl-2-pentanone

Concen: 116.957 ug/L

RT: 7.162 min Scan# 1904

Delta R.T. 0.003 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

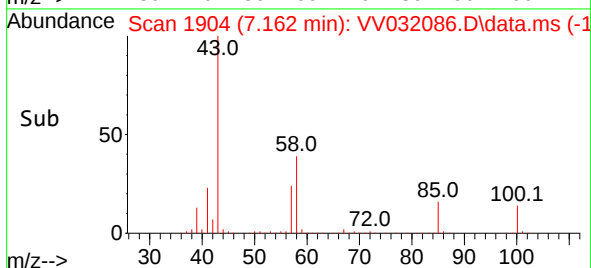
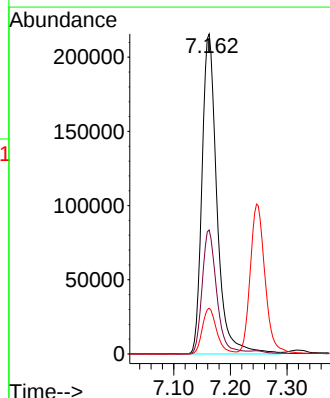
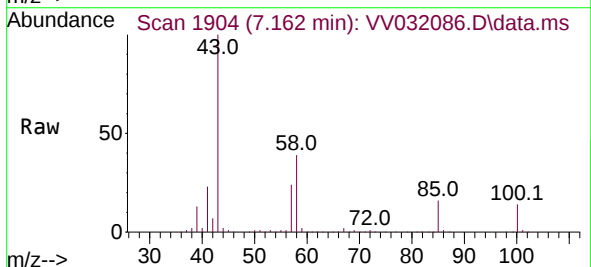
Tgt Ion: 43 Resp: 396974

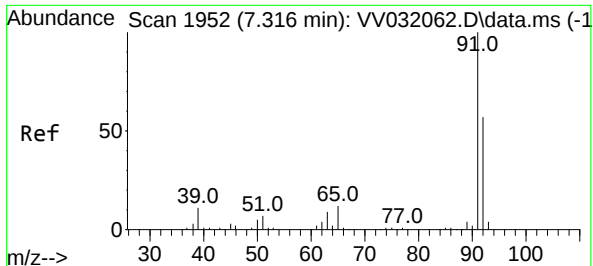
Ion Ratio Lower Upper

43 100

58 37.9 31.1 46.7

100 13.8 11.9 17.9





#42

Toluene

Concen: 49.571 ug/L

RT: 7.320 min Scan# 1953

Delta R.T. 0.003 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

Instrument :

MSVOA\_V

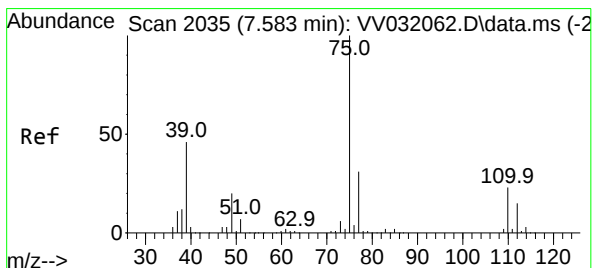
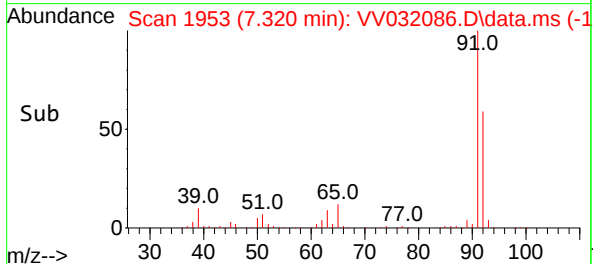
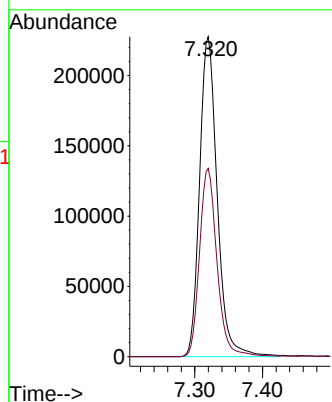
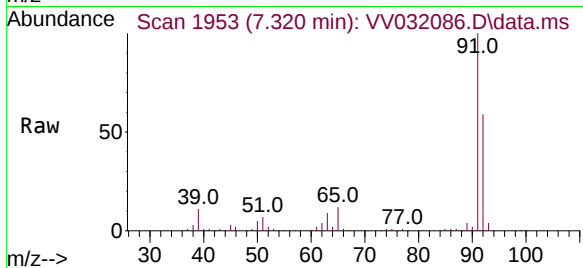
ClientSampleId :

Tgt Ion: 91 Resp: 411395

Ion Ratio Lower Upper

91 100

92 58.9 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 45.849 ug/L

RT: 7.583 min Scan# 2035

Delta R.T. 0.000 min

Lab File: VV032086.D

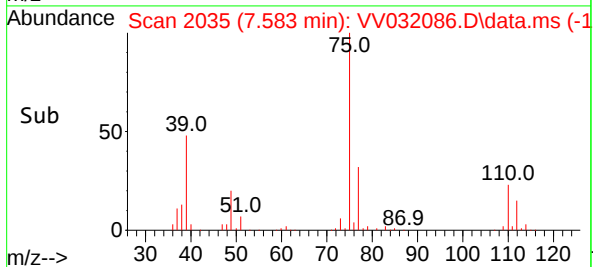
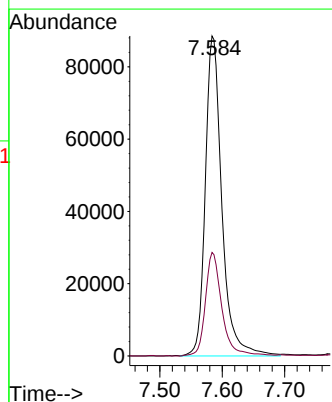
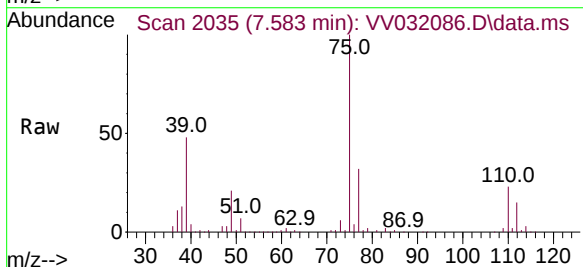
Acq: 13 Sep 2023 19:01

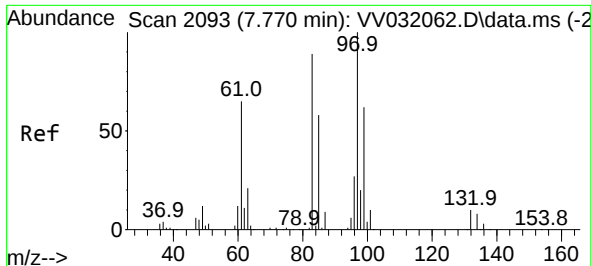
Tgt Ion: 75 Resp: 163784

Ion Ratio Lower Upper

75 100

77 32.4 22.5 41.9

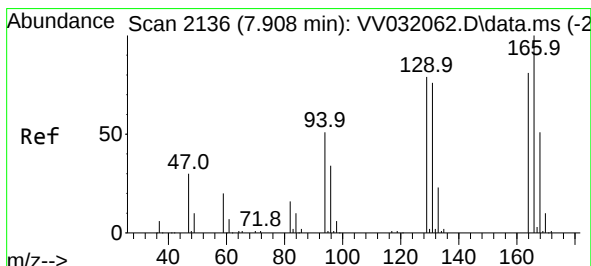
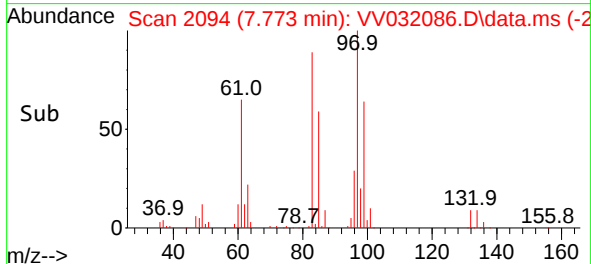
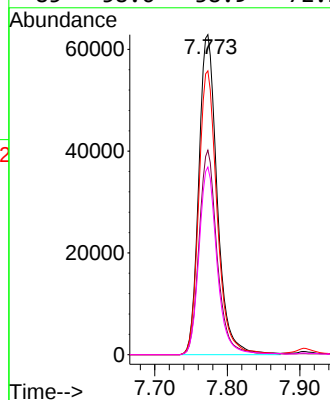
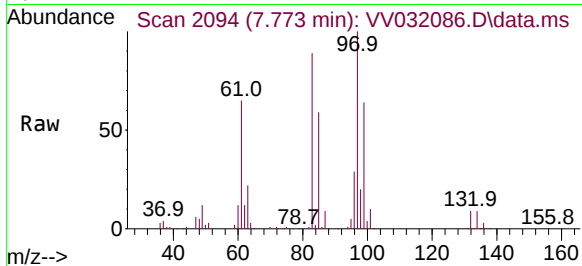




#45  
1,1,2-Trichloroethane  
Concen: 51.345 ug/L  
RT: 7.773 min Scan# 2093  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

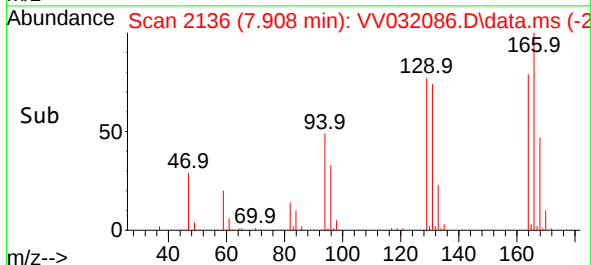
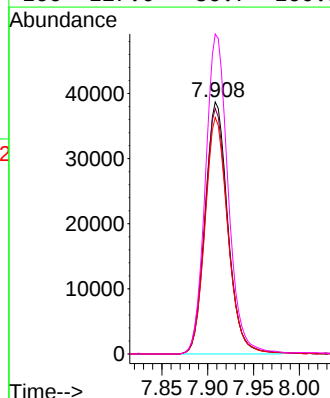
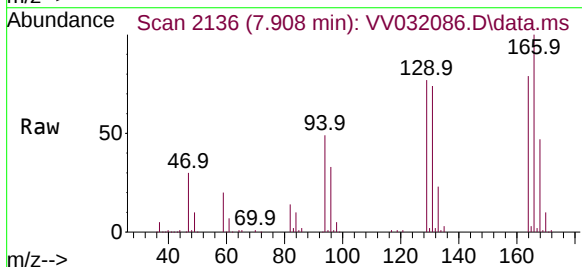
Instrument :  
MSVOA\_V  
ClientSampleId :

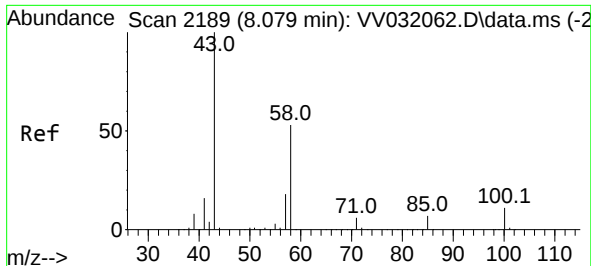
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 110930 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 99 63.9     | 43.0 79.8    |
| 83 88.7     | 61.2 113.6   |
| 85 58.6     | 38.9 72.2    |



#46  
Tetrachloroethene  
Concen: 45.865 ug/L  
RT: 7.908 min Scan# 2136  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 66450 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 97.4    | 68.3  | 126.9 |
| 131 | 93.9    | 64.9  | 120.5 |
| 166 | 127.0   | 86.7  | 160.9 |



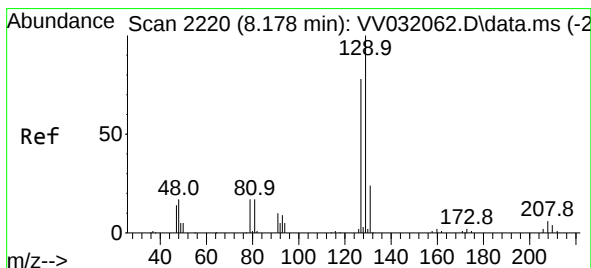
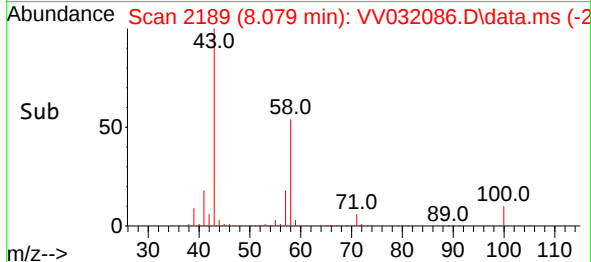
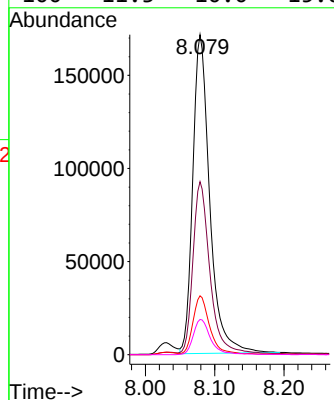
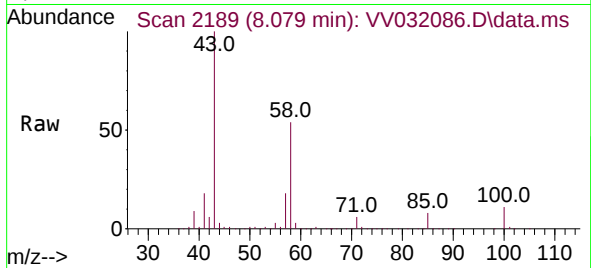


#48  
2-Hexanone  
Concen: 112.650 ug/L  
RT: 8.079 min Scan# 2189  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 43 Resp: 291993

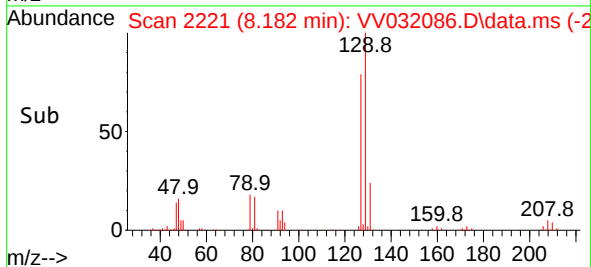
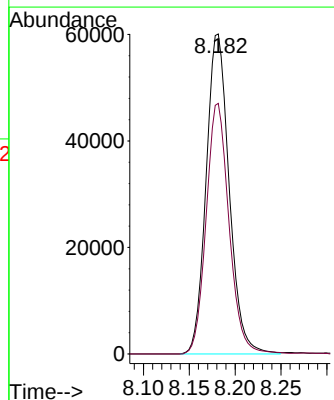
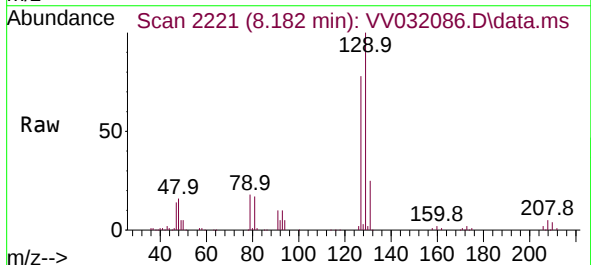
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 53.5  | 44.0  | 66.0  |
| 57  | 17.9  | 15.9  | 23.9  |
| 100 | 11.3  | 10.0  | 15.0  |

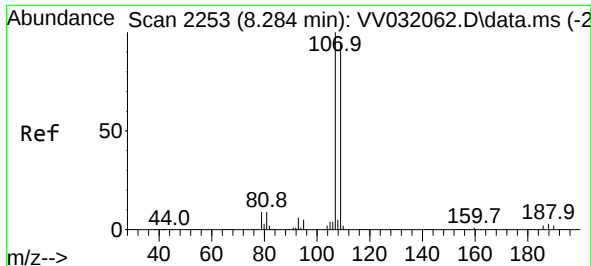


#49  
Dibromochloromethane  
Concen: 47.317 ug/L  
RT: 8.182 min Scan# 2221  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion: 129 Resp: 105048

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.3  | 54.7  | 101.7 |





#50

1,2-Dibromoethane

Concen: 49.487 ug/L

RT: 8.284 min Scan# 2119

Delta R.T. 0.000 min

Lab File: VV032086.D

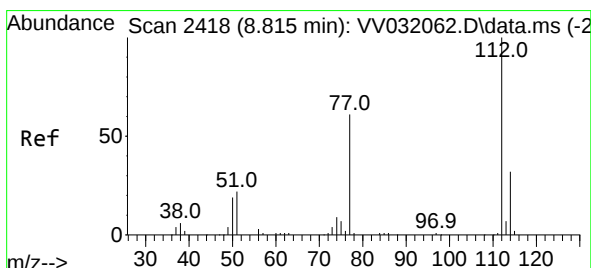
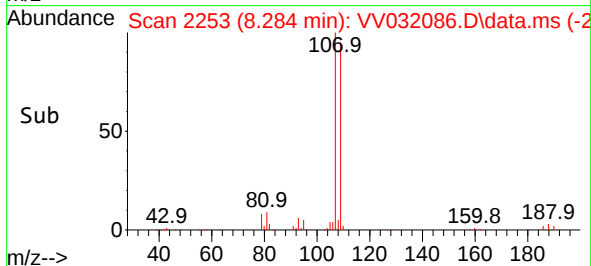
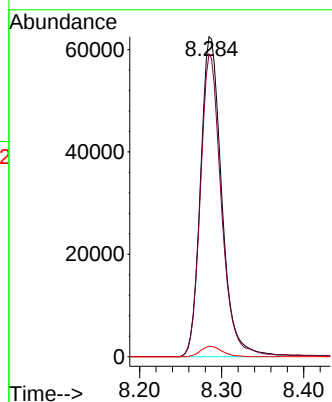
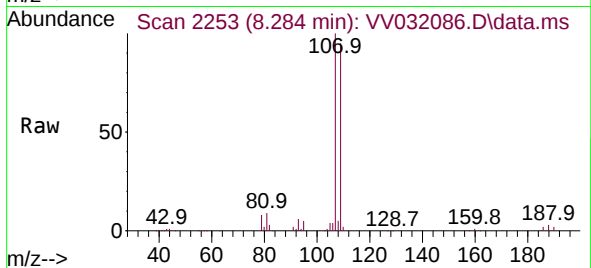
Acq: 13 Sep 2023 19:01

Instrument :

MSVOA\_V

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 111982 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 109      | 94.6  | 65.4  | 121.4  |
| 188      | 3.2   | 2.8   | 4.2    |



#51

Chlorobenzene

Concen: 49.941 ug/L

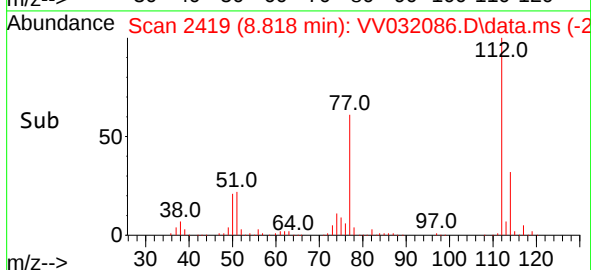
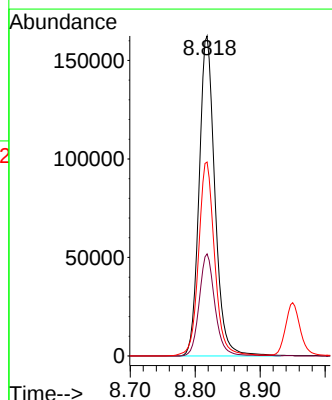
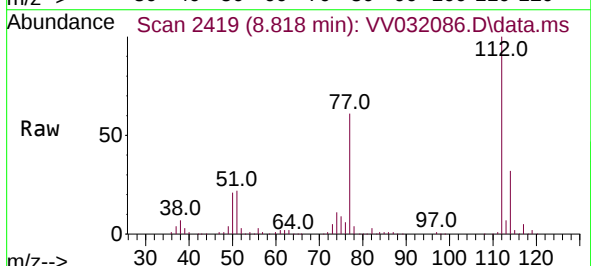
RT: 8.818 min Scan# 2419

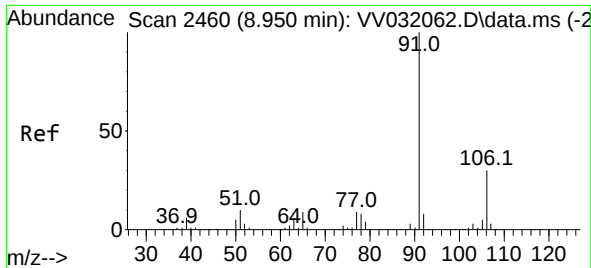
Delta R.T. 0.003 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 275402 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.9  | 22.0  | 40.8   |
| 77       | 60.6  | 49.4  | 74.0   |

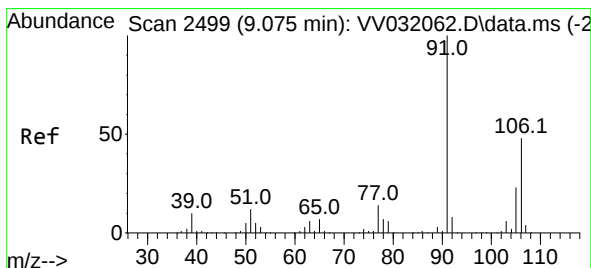
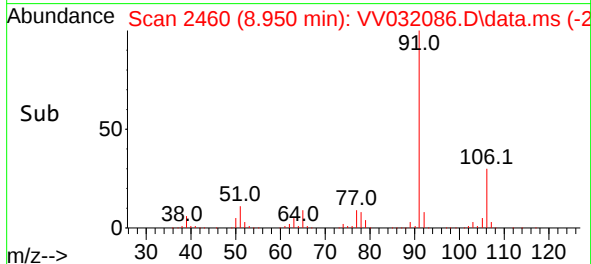
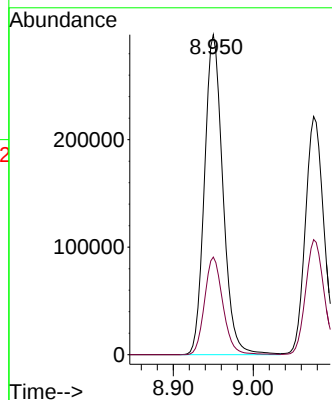
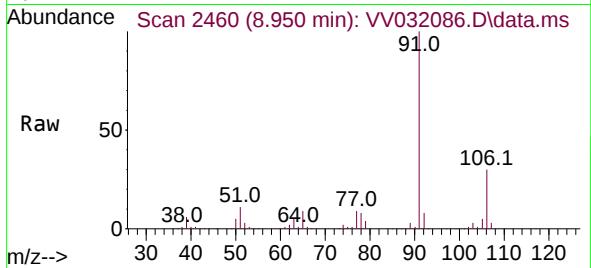




#52  
Ethylbenzene  
Concen: 48.568 ug/L  
RT: 8.950 min Scan# 2460  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

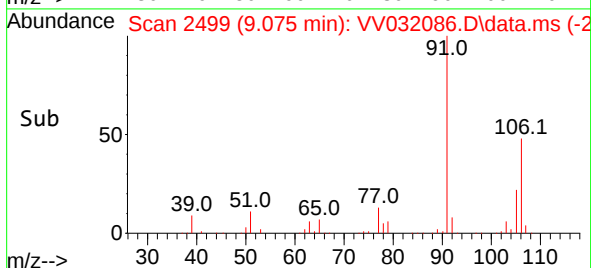
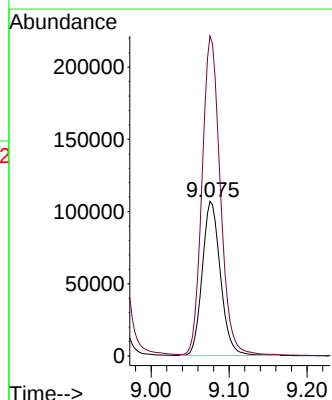
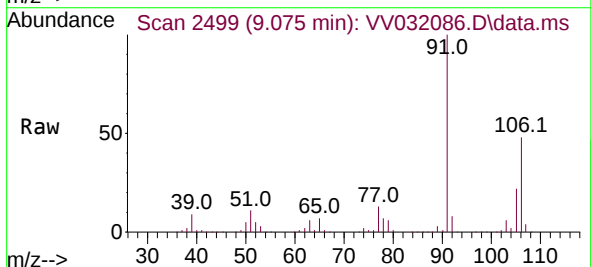
Instrument :  
MSVOA\_V  
ClientSampleId :

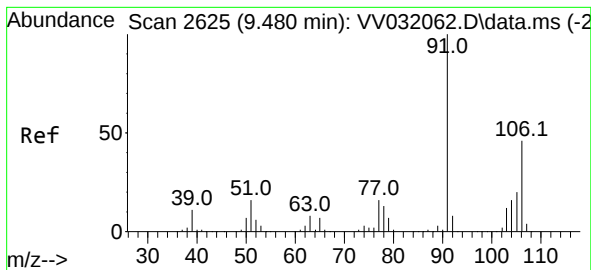
Tgt Ion: 91 Resp: 477464  
Ion Ratio Lower Upper  
91 100  
106 30.5 21.5 39.9



#53  
m,p-Xylene  
Concen: 47.498 ug/L  
RT: 9.075 min Scan# 2499  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion: 106 Resp: 173372  
Ion Ratio Lower Upper  
106 100  
91 207.1 147.0 273.0





#54

o-Xylene

Concen: 48.803 ug/L

RT: 9.481 min Scan# 2625

Delta R.T. 0.000 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

Instrument :

MSVOA\_V

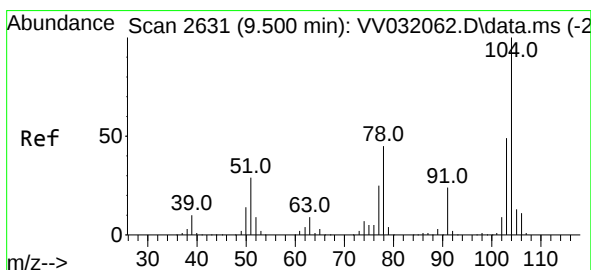
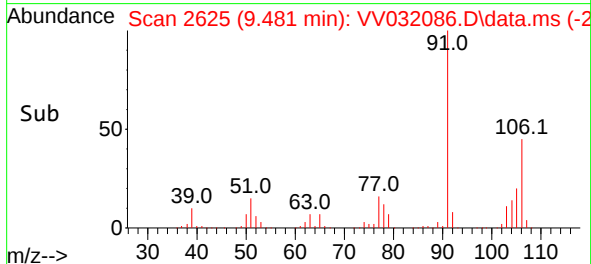
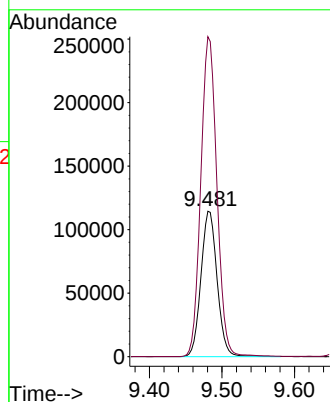
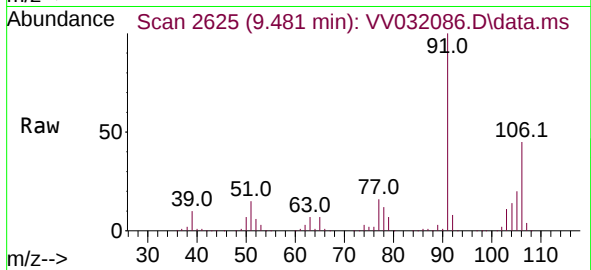
ClientSampleId :

Tgt Ion:106 Resp: 177170

Ion Ratio Lower Upper

106 100

91 220.0 154.3 286.5



#55

Styrene

Concen: 48.829 ug/L

RT: 9.500 min Scan# 2631

Delta R.T. 0.000 min

Lab File: VV032086.D

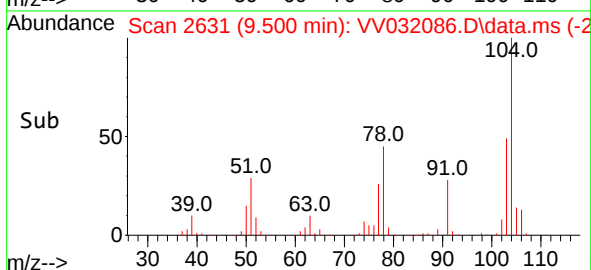
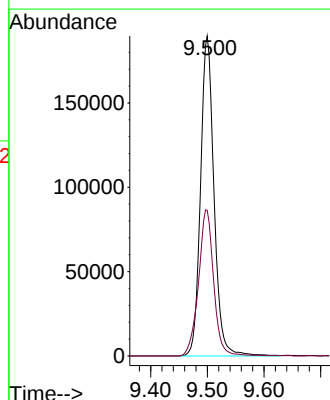
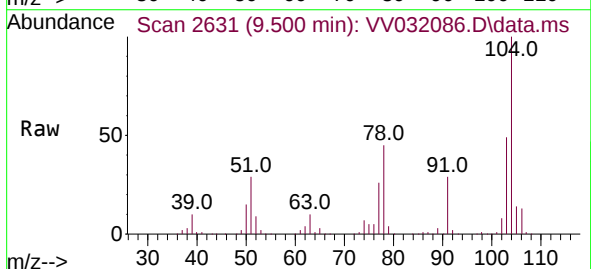
Acq: 13 Sep 2023 19:01

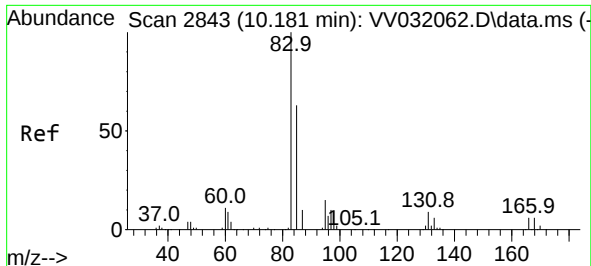
Tgt Ion:104 Resp: 313374

Ion Ratio Lower Upper

104 100

78 45.5 32.3 59.9





#57

1,1,2,2-Tetrachloroethane

Concen: 59.116 ug/L

RT: 10.181 min Scan# 2843

Delta R.T. 0.000 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

Instrument :

MSVOA\_V

ClientSampleId :

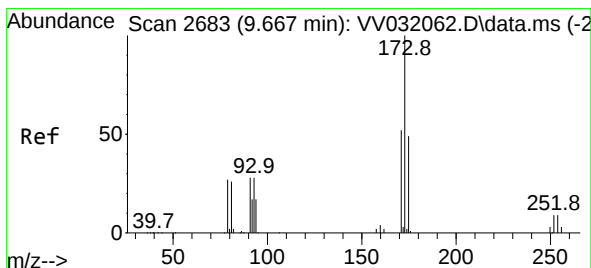
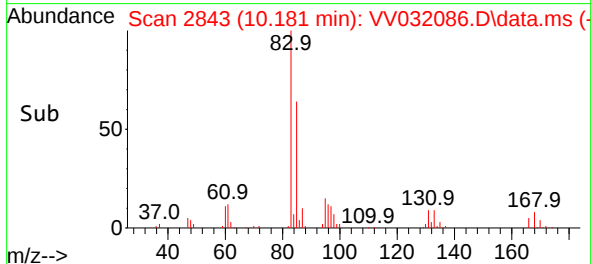
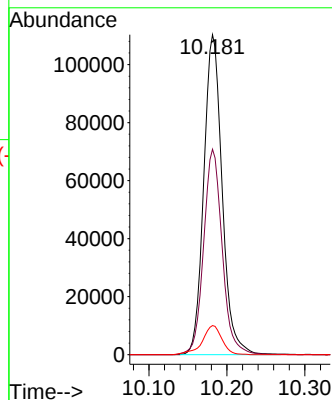
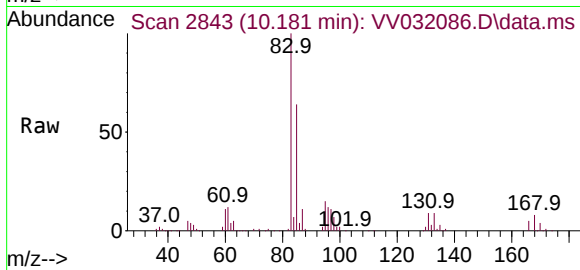
Tgt Ion: 83 Resp: 180797

Ion Ratio Lower Upper

83 100

85 64.2 45.1 83.9

131 9.1 7.4 11.2



#59

Bromoform

Concen: 47.770 ug/L

RT: 9.670 min Scan# 2684

Delta R.T. 0.003 min

Lab File: VV032086.D

Acq: 13 Sep 2023 19:01

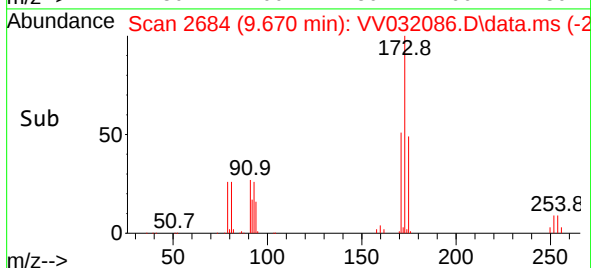
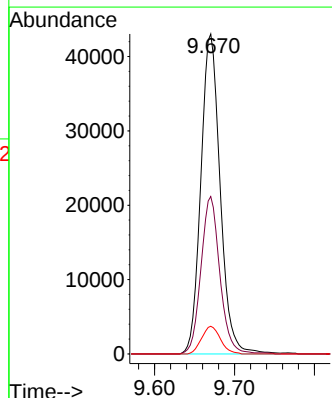
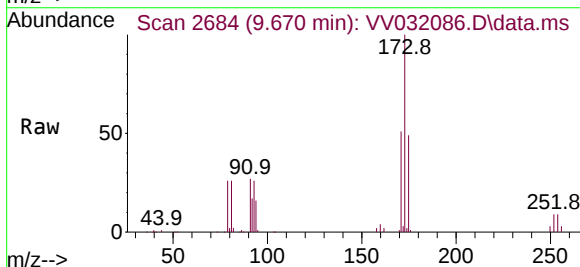
Tgt Ion: 173 Resp: 72421

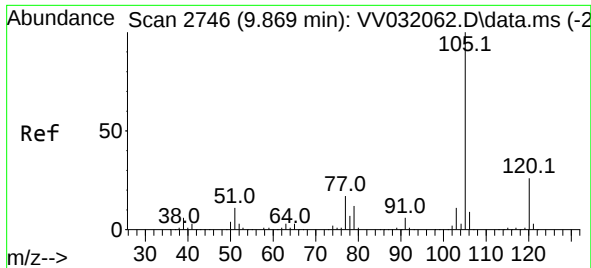
Ion Ratio Lower Upper

173 100

175 48.0 38.3 57.5

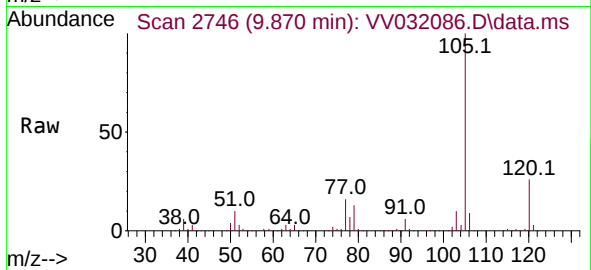
254 8.5 6.9 10.3



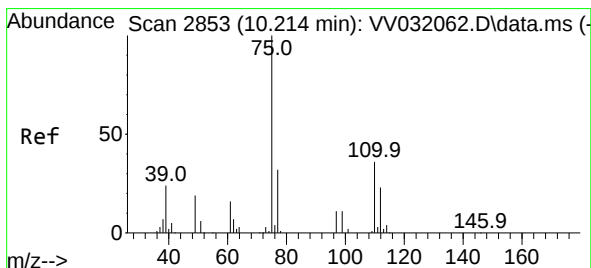
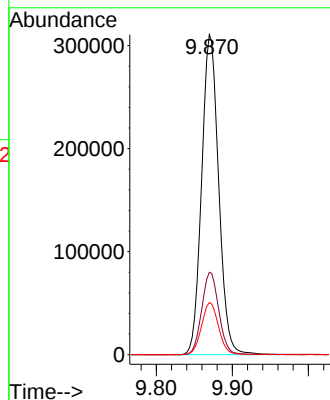
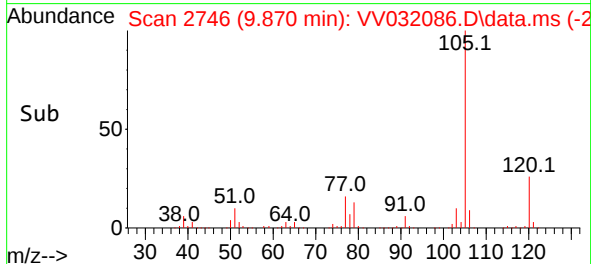


#60  
Isopropylbenzene  
Concen: 49.352 ug/L  
RT: 9.870 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

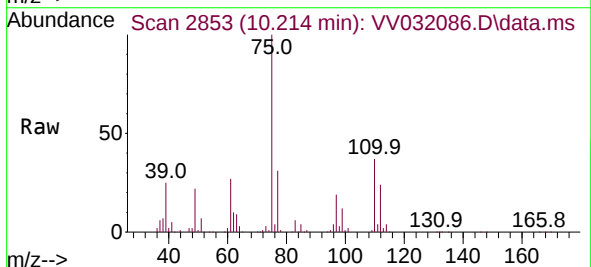
Instrument :  
MSVOA\_V  
ClientSampleId :



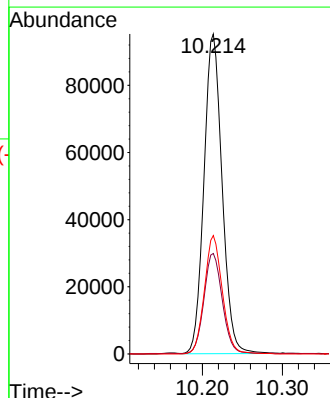
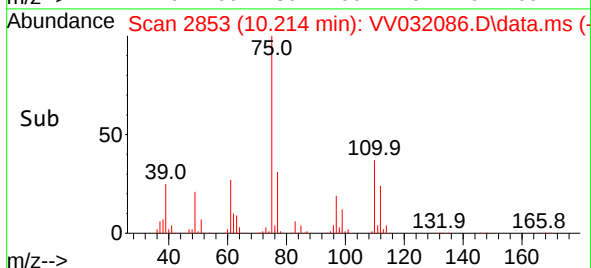
Tgt Ion:105 Resp: 483255  
Ion Ratio Lower Upper  
105 100  
120 25.8 20.6 31.0  
77 16.3 12.8 19.2

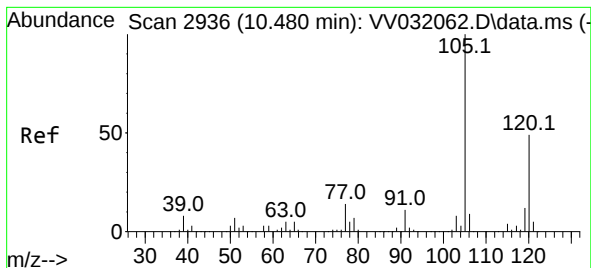


#61  
1,2,3-Trichloropropane  
Concen: 54.519 ug/L  
RT: 10.214 min Scan# 2853  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01



Tgt Ion: 75 Resp: 150586  
Ion Ratio Lower Upper  
75 100  
77 31.7 25.7 38.5  
110 36.5 30.3 45.5

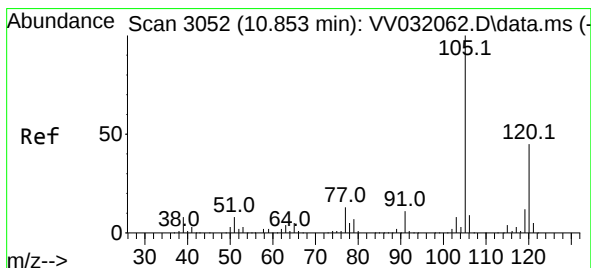
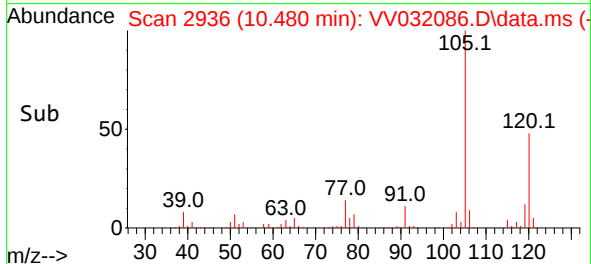
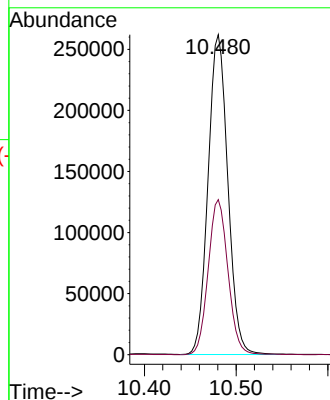
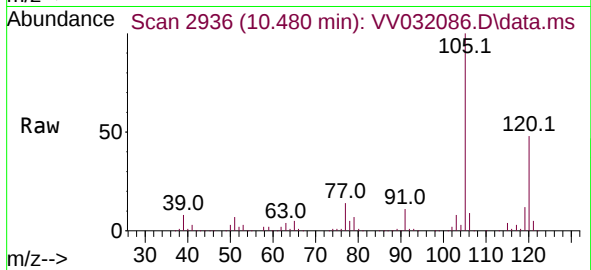




#62  
1,3,5-Trimethylbenzene  
Concen: 47.555 ug/L  
RT: 10.480 min Scan# 2936  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

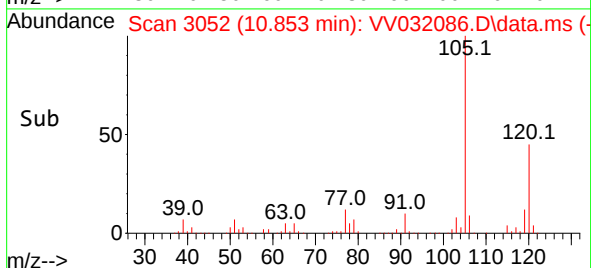
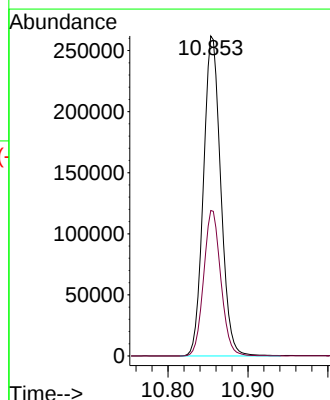
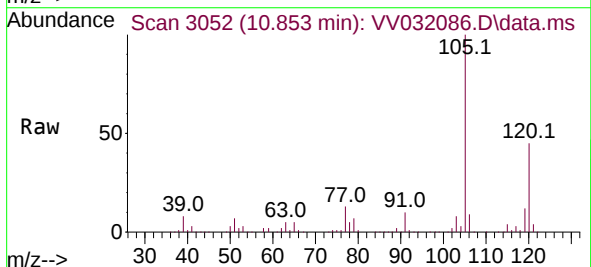
Instrument :  
MSVOA\_V  
ClientSampleId :

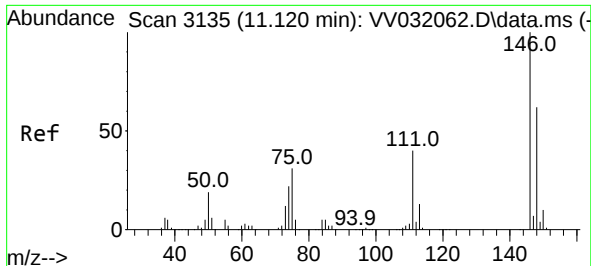
Tgt Ion:105 Resp: 391758  
Ion Ratio Lower Upper  
105 100  
120 48.6 38.2 57.4



#63  
1,2,4-Trimethylbenzene  
Concen: 47.684 ug/L  
RT: 10.853 min Scan# 3052  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion:105 Resp: 395166  
Ion Ratio Lower Upper  
105 100  
120 45.2 35.9 53.9

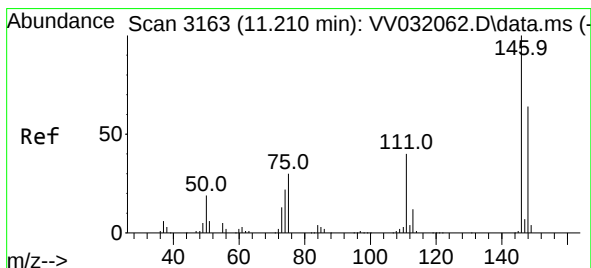
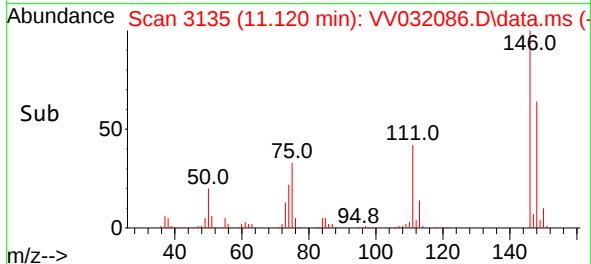
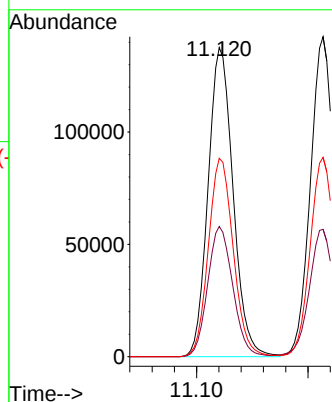
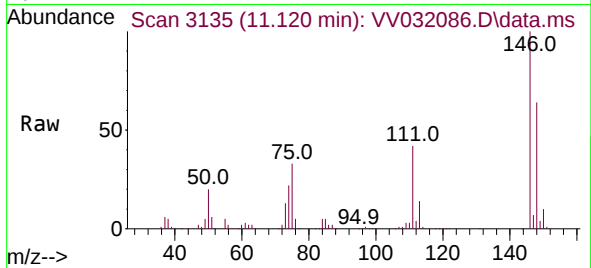




#64  
1,3-Dichlorobenzene  
Concen: 48.849 ug/L  
RT: 11.120 min Scan# 3135  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

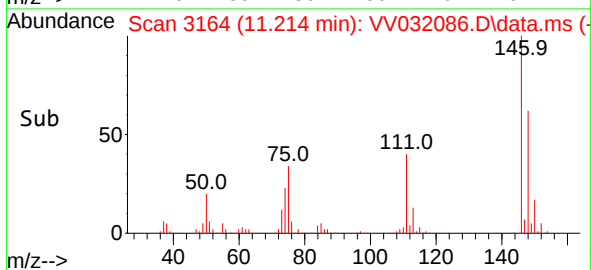
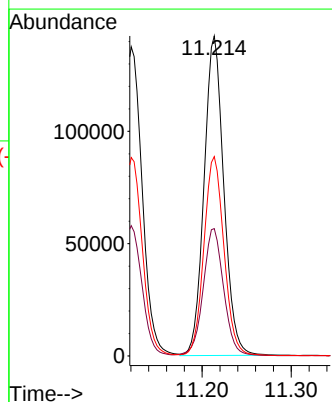
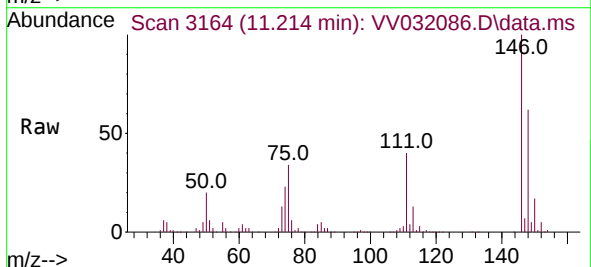
Instrument :  
MSVOA\_V  
ClientSampleId :

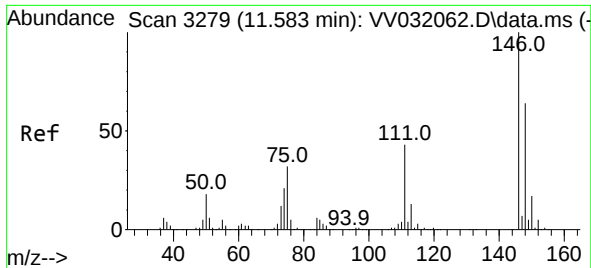
Tgt Ion:146 Resp: 214371  
Ion Ratio Lower Upper  
146 100  
111 42.1 30.2 56.0  
148 64.2 44.1 81.9



#65  
1,4-Dichlorobenzene  
Concen: 48.957 ug/L  
RT: 11.214 min Scan# 3164  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion:146 Resp: 218463  
Ion Ratio Lower Upper  
146 100  
111 39.8 28.5 52.9  
148 62.3 44.2 82.2

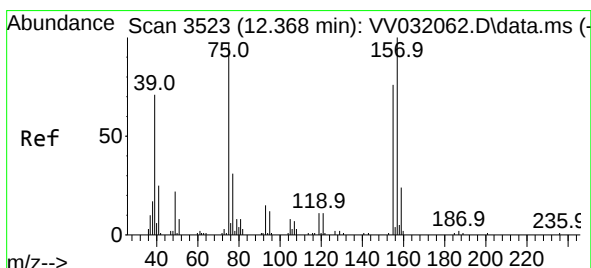
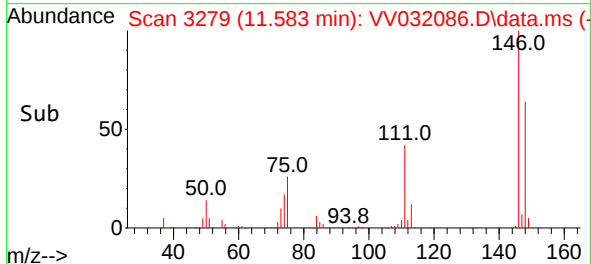
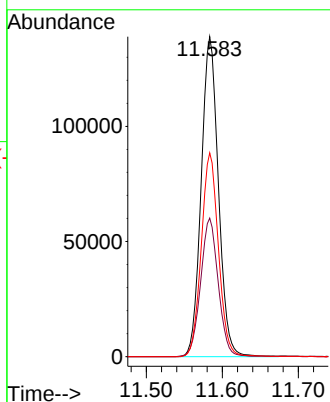
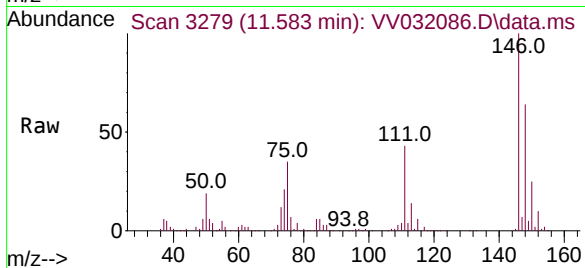




#67  
1,2-Dichlorobenzene  
Concen: 50.219 ug/L  
RT: 11.583 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

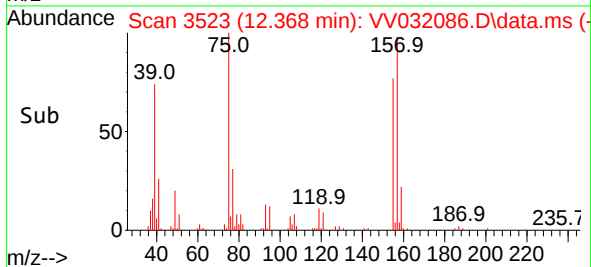
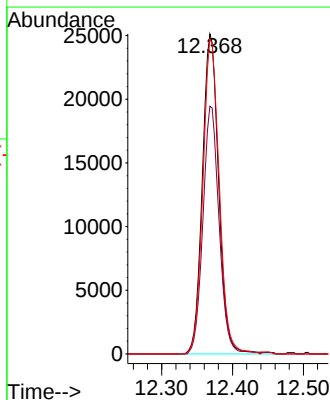
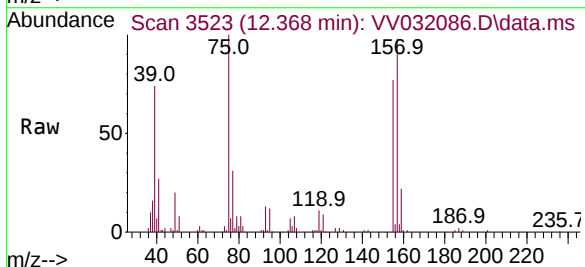
Instrument :  
MSVOA\_V  
ClientSampleId :

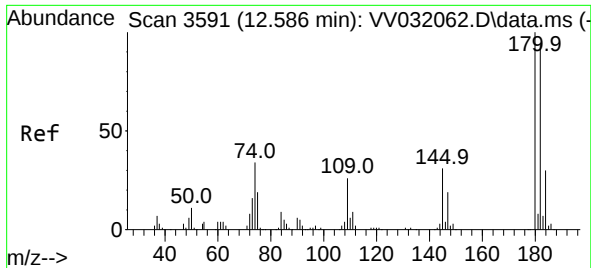
Tgt Ion:146 Resp: 218377  
Ion Ratio Lower Upper  
146 100  
111 43.3 35.8 53.6  
148 63.7 51.1 76.7



#68  
1,2-Dibromo-3-chloropropane  
Concen: 48.396 ug/L  
RT: 12.368 min Scan# 3523  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

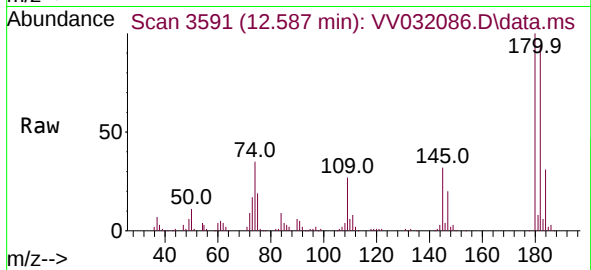
Tgt Ion: 75 Resp: 40152  
Ion Ratio Lower Upper  
75 100  
155 77.4 60.1 90.1  
157 98.4 77.3 115.9



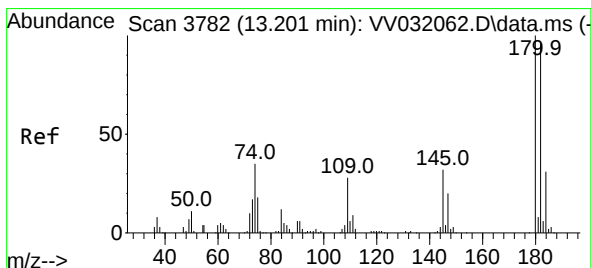
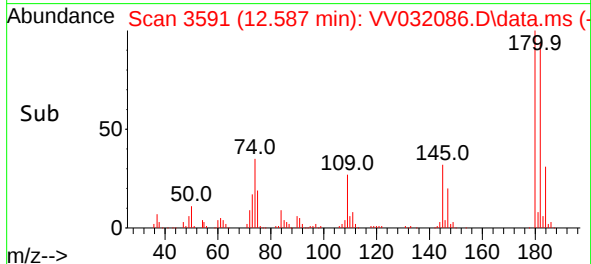
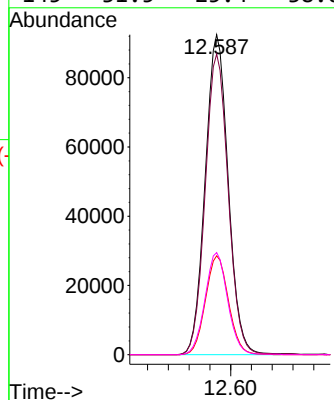


#69  
1,3,5-Trichlorobenzene  
Concen: 44.390 ug/L  
RT: 12.587 min Scan# 3591  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Instrument :  
MSVOA\_V  
ClientSampleId :

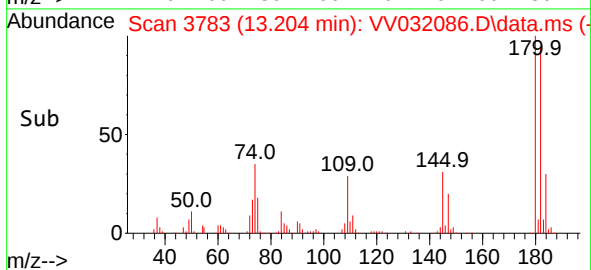
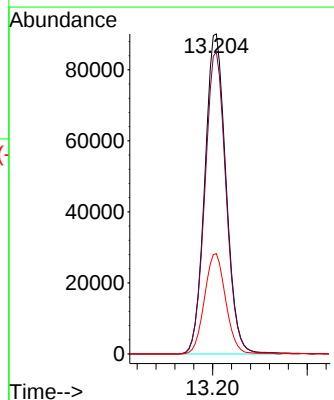
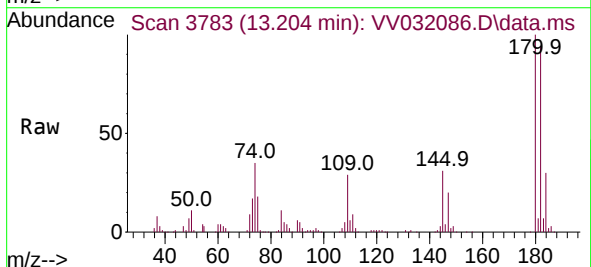


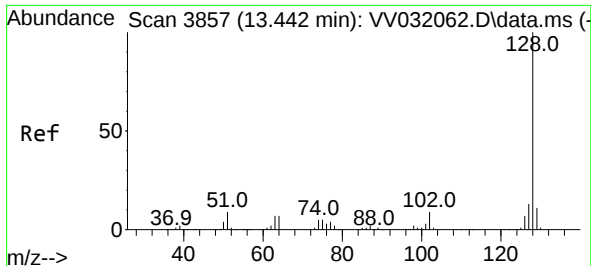
Tgt Ion:180 Resp: 142009  
Ion Ratio Lower Upper  
180 100  
182 93.9 75.4 113.2  
184 30.9 23.7 35.5  
145 31.5 25.4 38.0



#70  
1,2,4-trichlorobenzene  
Concen: 45.678 ug/L  
RT: 13.204 min Scan# 3783  
Delta R.T. 0.003 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

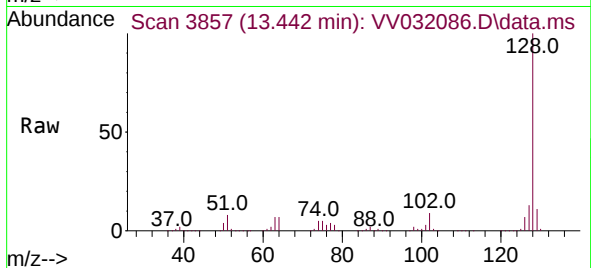
Tgt Ion:180 Resp: 140269  
Ion Ratio Lower Upper  
180 100  
182 94.5 75.4 113.2  
145 31.3 26.0 39.0



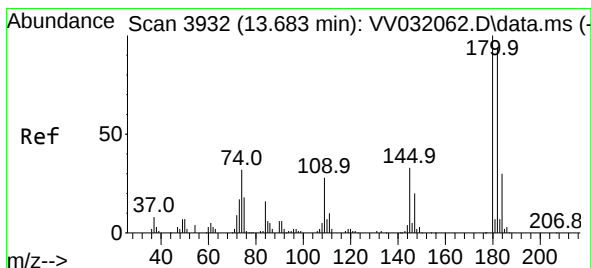
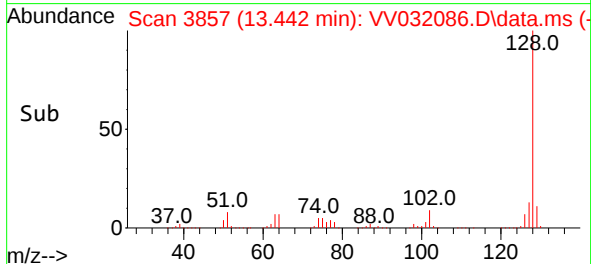
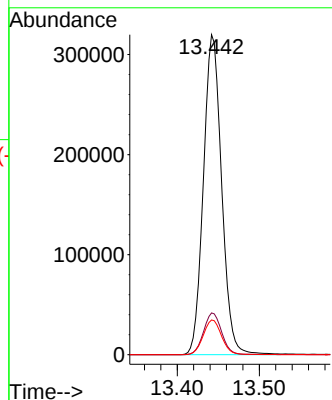


#71  
Naphthalene  
Concen: 50.307 ug/L  
RT: 13.442 min Scan# 3857  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Instrument :  
MSVOA\_V  
ClientSampleId :



Tgt Ion:128 Resp: 493565  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.4 15.6  
129 11.0 8.7 13.1



#72  
1,2,3-Trichlorobenzene  
Concen: 46.928 ug/L  
RT: 13.683 min Scan# 3932  
Delta R.T. 0.000 min  
Lab File: VV032086.D  
Acq: 13 Sep 2023 19:01

Tgt Ion:180 Resp: 138089  
Ion Ratio Lower Upper  
180 100  
182 95.7 76.7 115.1  
145 34.0 27.7 41.5

