

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW111622\  
 Data File : VV029054.D  
 Acq On : 17 Nov 2022 06:43  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005351

Quant Time: Nov 17 07:01:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Nov 17 04:20:13 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.613  | 114   | 271978   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.847  | 117   | 262445   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.239 | 152   | 138883   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304  | 65    | 79009    | 4.765    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 95.200%  |
| 7) Chloroethane-d5            | 1.568  | 69    | 64129    | 4.399    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 88.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.108  | 63    | 142298   | 4.709    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 94.200%  |
| 20) 2-Butanone-d5             | 3.902  | 46    | 109352   | 39.398   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 78.800%  |
| 24) Chloroform-d              | 4.343  | 84    | 173205   | 5.088    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 101.800% |
| 26) 1,2-Dichloroethane-d4     | 5.031  | 65    | 75868    | 4.953    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 99.000%  |
| 32) Benzene-d6                | 5.047  | 84    | 366048   | 4.673    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 93.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.066  | 67    | 100140   | 4.578    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 91.600%  |
| 41) Toluene-d8                | 7.310  | 98    | 358016   | 5.077    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 101.600% |
| 43) trans-1,3-Dichloroprop... | 7.619  | 79    | 35480    | 4.973    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 99.400%  |
| 46) 2-Hexanone-d5             | 8.088  | 63    | 156245   | 51.307   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 102.620% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.211 | 84    | 78060    | 5.147    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 103.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.616 | 152   | 131454   | 5.290    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 105.800% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.130  | 85    | 113672   | 5.014    | ug/L   | 99       |
| 3) Chloromethane              | 1.240  | 50    | 86638    | 4.604    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.311  | 62    | 100914   | 4.702    | ug/L   | 94       |
| 6) Bromomethane               | 1.523  | 94    | 56984    | 4.442    | ug/L   | 98       |
| 8) Chloroethane               | 1.584  | 64    | 64152    | 5.086    | ug/L   | 94       |
| 9) Trichlorofluoromethane     | 1.751  | 101   | 154224   | 5.329    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114  | 101   | 84134    | 5.135    | ug/L   | 94       |
| 12) 1,1-Dichloroethene        | 2.118  | 96    | 86657    | 5.263    | ug/L   | 89       |
| 13) Acetone                   | 2.195  | 43    | 61656    | 34.532   | ug/L   | 95       |
| 14) Carbon disulfide          | 2.291  | 76    | 275139   | 4.706    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.439  | 43    | 21979    | 5.072    | ug/L   | 95       |
| 16) Methylene chloride        | 2.503  | 84    | 107481   | 5.049    | ug/L   | 94       |
| 17) Methyl tert-butyl Ether   | 2.767  | 73    | 191482   | 5.425    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 2.757  | 96    | 104596   | 5.477    | ug/L   | 93       |
| 19) 1,1-Dichloroethane        | 3.185  | 63    | 165933   | 5.315    | ug/L   | 98       |
| 21) 2-Butanone                | 3.989  | 43    | 105726   | 38.247   | ug/L   | 84       |
| 22) cis-1,2-Dichloroethene    | 3.905  | 96    | 109806   | 5.656    | ug/L   | 94       |
| 23) Bromochloromethane        | 4.246  | 128   | 47969    | 5.842    | ug/L   | 96       |
| 25) Chloroform                | 4.368  | 83    | 179704   | 5.491    | ug/L   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW111622\  
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 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 52 Sample Multiplier: 1

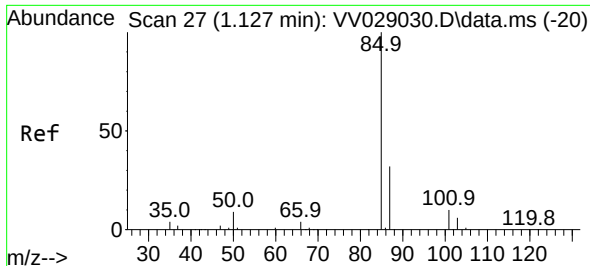
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005351

Quant Time: Nov 17 07:01:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Nov 17 04:20:13 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.127  | 62   | 91364    | 5.420  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane     | 4.603  | 97   | 156223   | 5.073  | ug/L   | 98       |
| 30) Cyclohexane               | 4.674  | 56   | 152008   | 4.856  | ug/L   | 99       |
| 31) Carbon tetrachloride      | 4.825  | 117  | 132988   | 5.014  | ug/L   | 99       |
| 33) Benzene                   | 5.095  | 78   | 411070   | 5.126  | ug/L   | 100      |
| 34) Trichloroethene           | 5.912  | 95   | 105289   | 5.128  | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.127  | 83   | 169728   | 4.704  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.169  | 63   | 93574    | 5.060  | ug/L   | 99       |
| 38) Bromodichloromethane      | 6.506  | 83   | 114795   | 4.901  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 7.024  | 75   | 119757   | 4.638  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.223  | 43   | 427261   | 53.697 | ug/L   | 95       |
| 42) Toluene                   | 7.381  | 91   | 451113   | 5.207  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 7.648  | 75   | 95869    | 4.783  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 7.834  | 97   | 68563    | 5.663  | ug/L   | 97       |
| 47) Tetrachloroethene         | 7.969  | 164  | 90724    | 5.518  | ug/L   | 98       |
| 48) 2-Hexanone                | 8.137  | 43   | 309434   | 55.516 | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.240  | 129  | 78296    | 5.349  | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.346  | 107  | 63036    | 5.605  | ug/L # | 96       |
| 51) Chlorobenzene             | 8.876  | 112  | 292260   | 5.456  | ug/L   | 98       |
| 52) Ethylbenzene              | 9.005  | 91   | 484045   | 5.366  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.130  | 106  | 192120   | 5.355  | ug/L   | 95       |
| 54) o-Xylene                  | 9.535  | 106  | 187778   | 5.506  | ug/L   | 97       |
| 55) Styrene                   | 9.555  | 104  | 316126   | 5.527  | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.233 | 83   | 78918    | 5.593  | ug/L   | 98       |
| 59) Bromoform                 | 9.725  | 173  | 39699    | 5.243  | ug/L   | 97       |
| 60) Isopropylbenzene          | 9.924  | 105  | 496651   | 5.509  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.265 | 75   | 53268    | 5.613  | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.532 | 105  | 415261   | 5.438  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.905 | 105  | 414598   | 5.420  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.172 | 146  | 235596   | 5.562  | ug/L   | 100      |
| 65) 1,4-Dichlorobenzene       | 11.262 | 146  | 230959   | 5.424  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.635 | 146  | 214080   | 5.625  | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.419 | 75   | 8256     | 4.421  | ug/L # | 77       |
| 69) 1,3,5-Trichlorobenzene    | 12.635 | 180  | 170762   | 5.226  | ug/L   | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.252 | 180  | 128901   | 5.215  | ug/L   | 97       |
| 71) Naphthalene               | 13.493 | 128  | 160024   | 5.018  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.731 | 180  | 112787   | 5.388  | ug/L   | 99       |

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

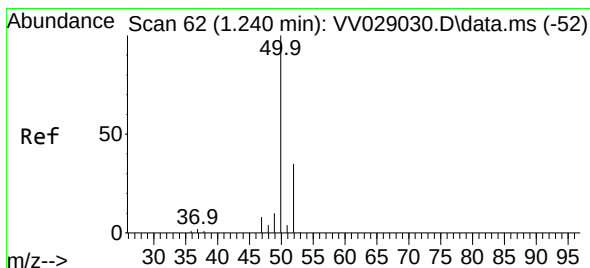
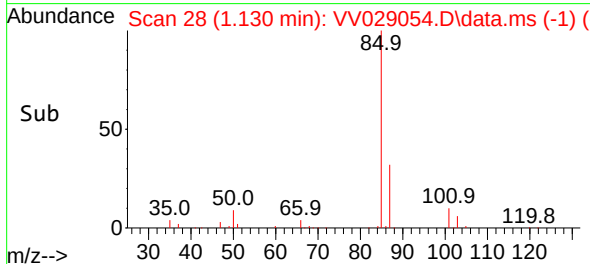
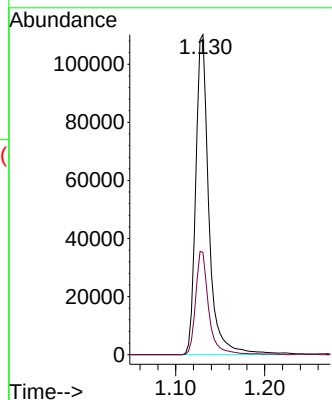
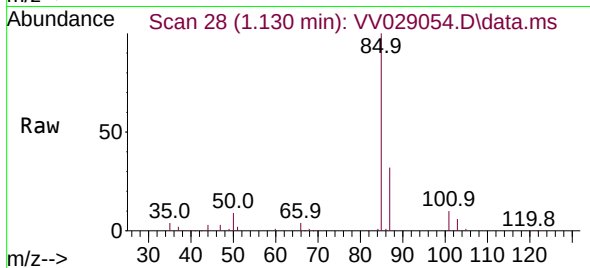




#2  
 Dichlorodifluoromethane  
 Concen: 5.014 ug/L  
 RT: 1.130 min Scan# 27  
 Delta R.T. 0.003 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

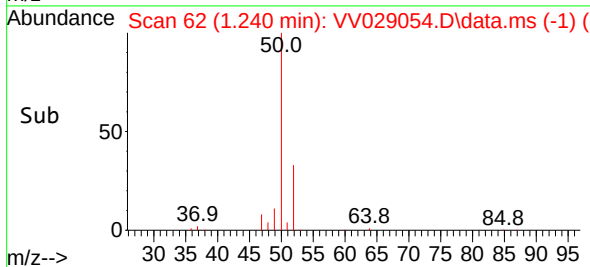
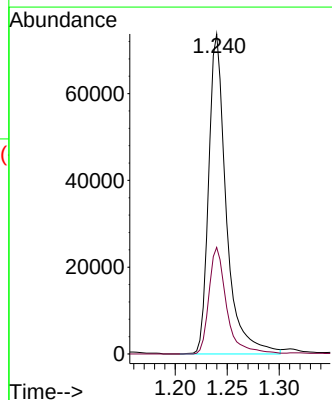
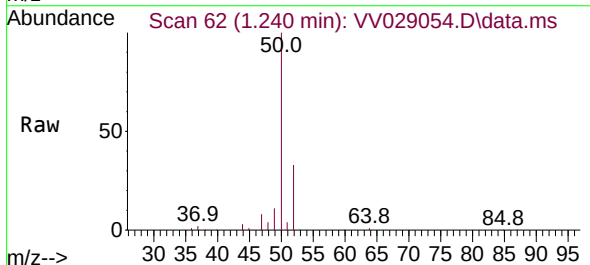
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005351

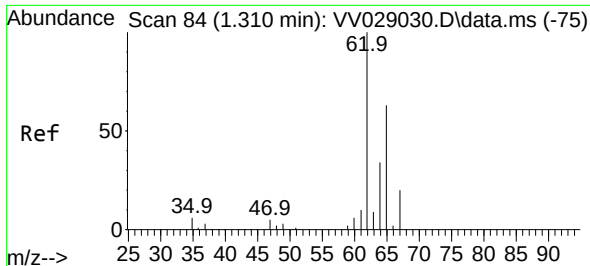
Tgt Ion: 85 Resp: 113672  
 Ion Ratio Lower Upper  
 85 100  
 87 31.9 25.0 37.4



#3  
 Chloromethane  
 Concen: 4.604 ug/L  
 RT: 1.240 min Scan# 62  
 Delta R.T. 0.000 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

Tgt Ion: 50 Resp: 86638  
 Ion Ratio Lower Upper  
 50 100  
 52 33.3 23.7 43.9

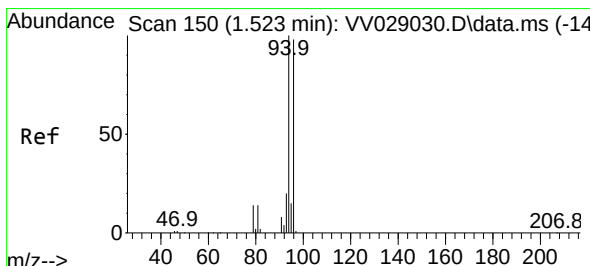
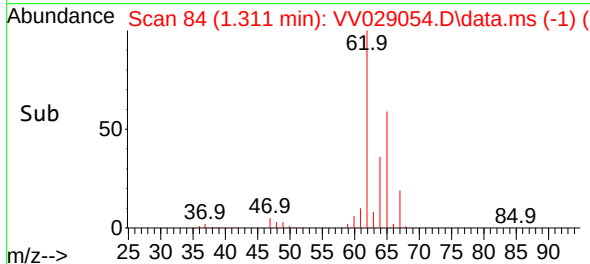
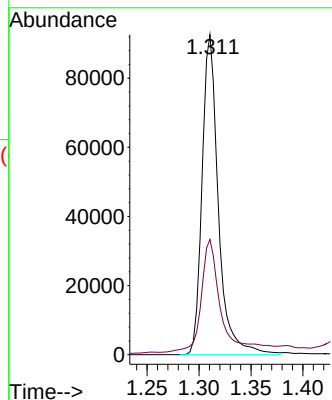
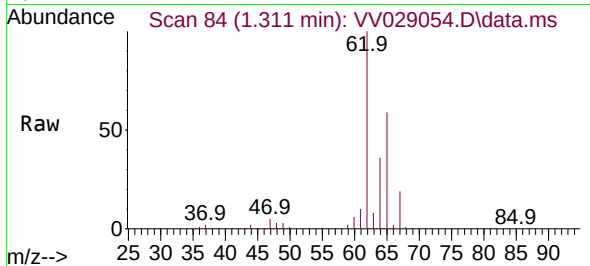




#5  
 Vinyl chloride  
 Concen: 4.702 ug/L  
 RT: 1.311 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

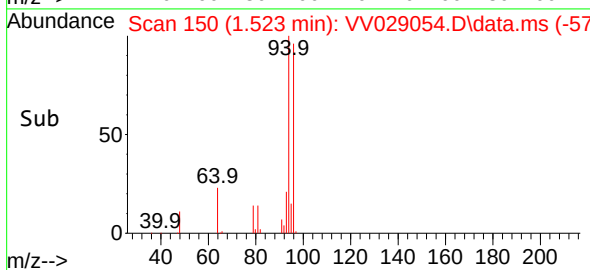
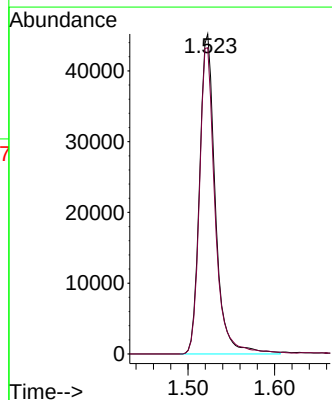
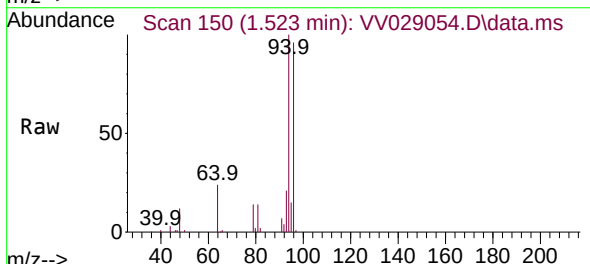
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005351

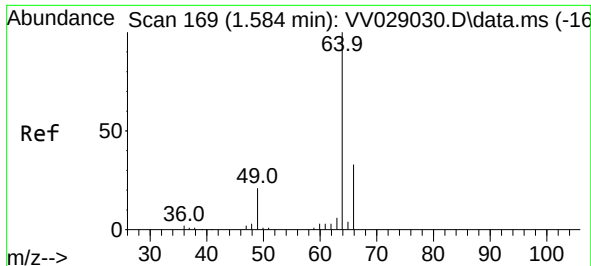
Tgt Ion: 62 Resp: 100914  
 Ion Ratio Lower Upper  
 62 100  
 64 36.0 22.8 42.4



#6  
 Bromomethane  
 Concen: 4.442 ug/L  
 RT: 1.523 min Scan# 150  
 Delta R.T. 0.000 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

Tgt Ion: 94 Resp: 56984  
 Ion Ratio Lower Upper  
 94 100  
 96 95.7 68.5 127.3

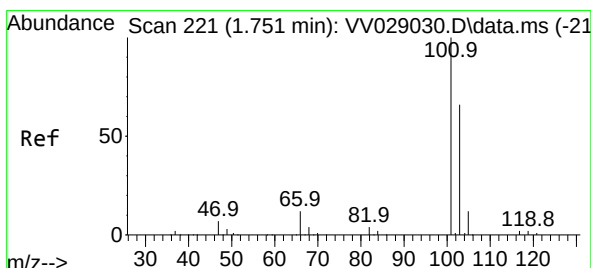
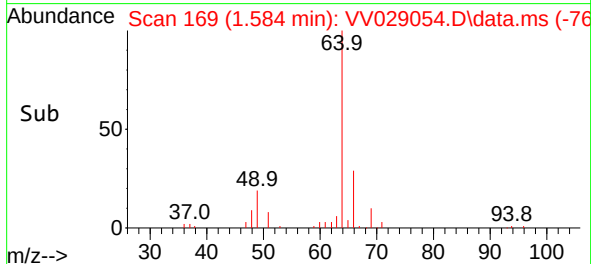
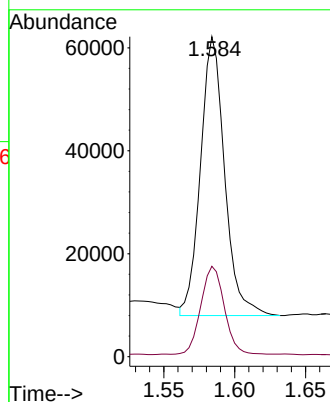
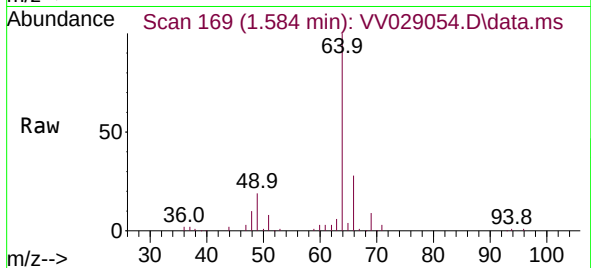




#8  
Chloroethane  
Concen: 5.086 ug/L  
RT: 1.584 min Scan# 169  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

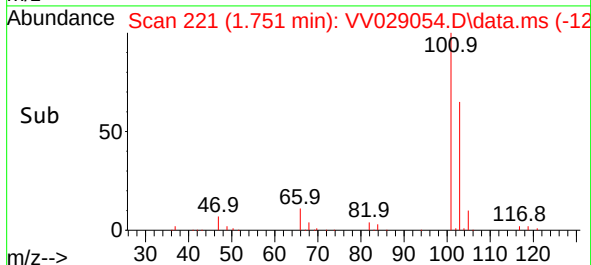
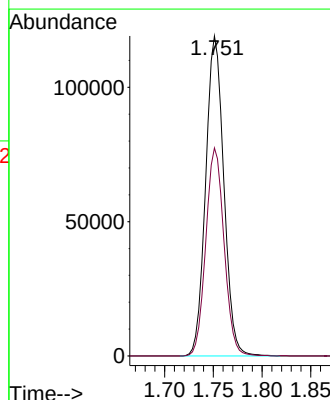
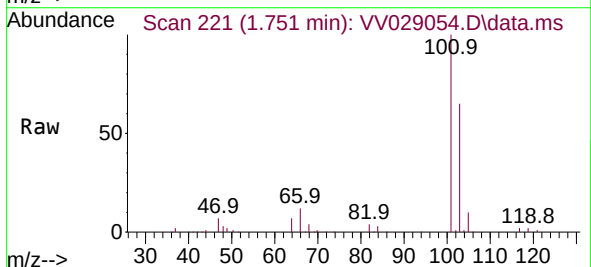
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

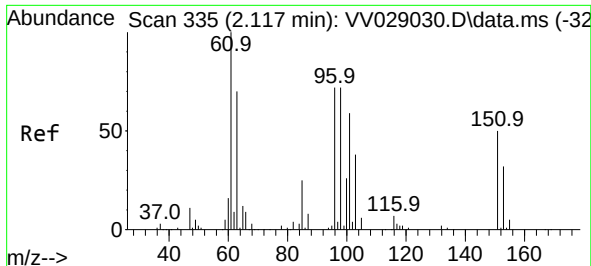
Tgt Ion: 64 Resp: 64152  
Ion Ratio Lower Upper  
64 100  
66 28.2 22.0 40.8



#9  
Trichlorofluoromethane  
Concen: 5.329 ug/L  
RT: 1.751 min Scan# 221  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion:101 Resp: 154224  
Ion Ratio Lower Upper  
101 100  
103 65.4 51.3 76.9

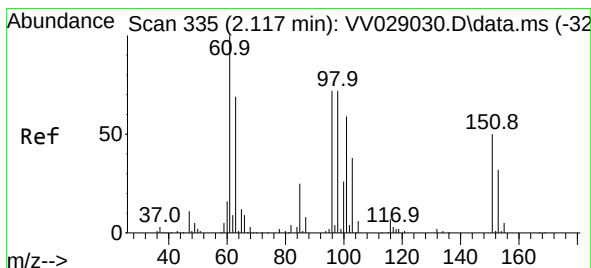
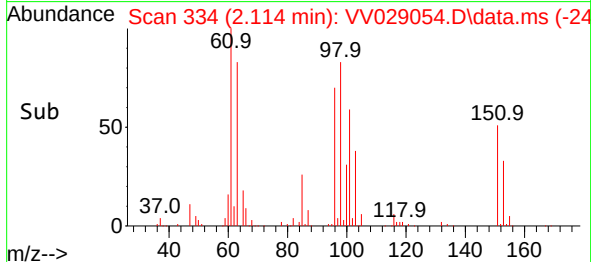
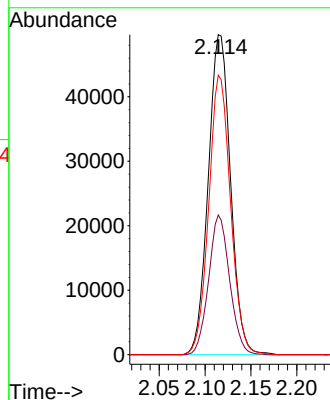
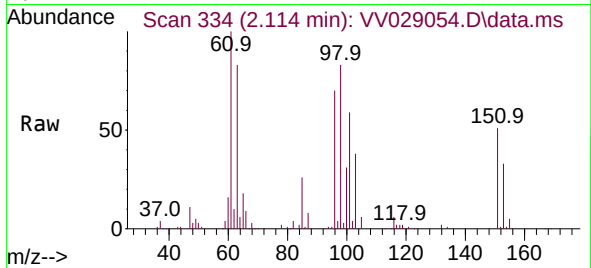




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.135 ug/L  
 RT: 2.114 min Scan# 311  
 Delta R.T. -0.003 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

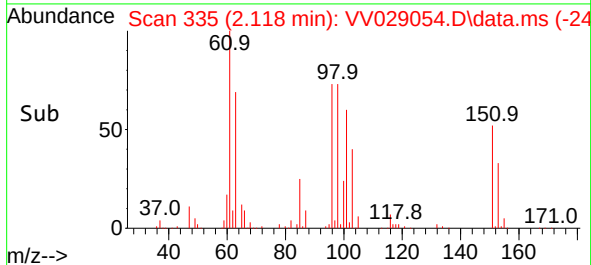
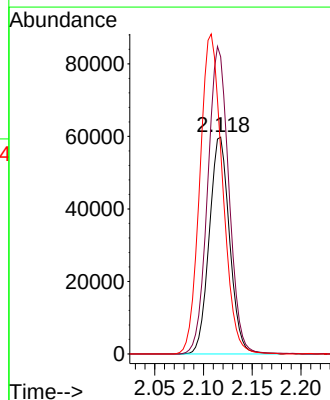
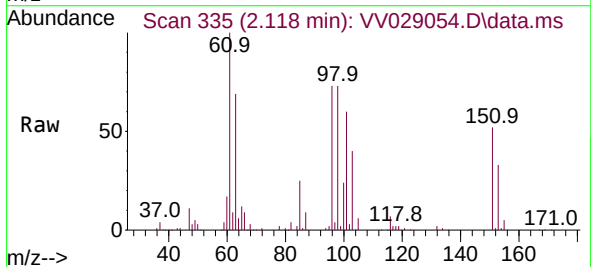
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005351

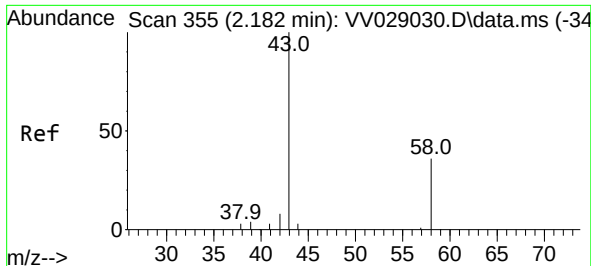
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 Ion Ratio Lower Upper  
 101 100  
 85 41.1 32.9 49.3  
 151 85.6 62.5 93.7



#12  
 1,1-Dichloroethene  
 Concen: 5.263 ug/L  
 RT: 2.118 min Scan# 335  
 Delta R.T. 0.000 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

Tgt Ion: 96 Resp: 86657  
 Ion Ratio Lower Upper  
 96 100  
 61 137.1 104.2 193.4  
 63 94.0 75.9 140.9





#13

Acetone

Concen: 34.532 ug/L

RT: 2.195 min Scan# 359

Delta R.T. 0.013 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

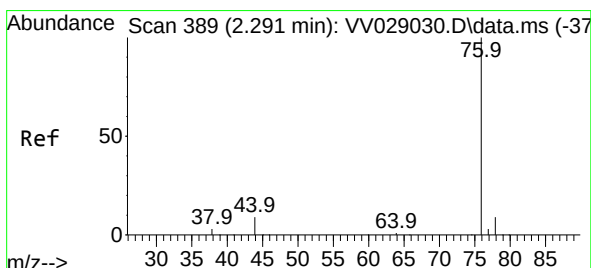
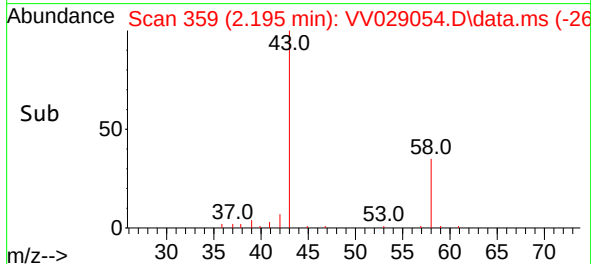
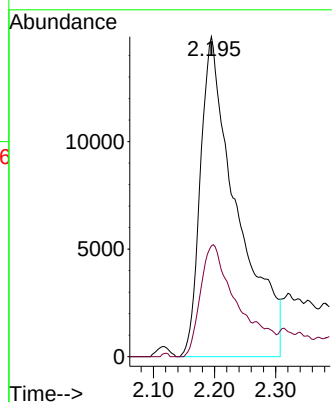
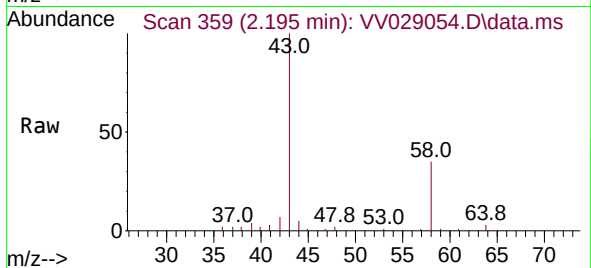
VSTD005351

Tgt Ion: 43 Resp: 61656

Ion Ratio Lower Upper

43 100

58 31.2 0.0 56.6



#14

Carbon disulfide

Concen: 4.706 ug/L

RT: 2.291 min Scan# 389

Delta R.T. 0.000 min

Lab File: VV029054.D

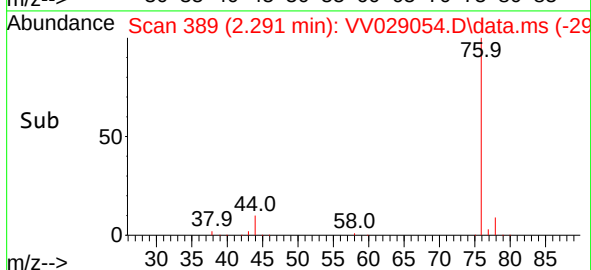
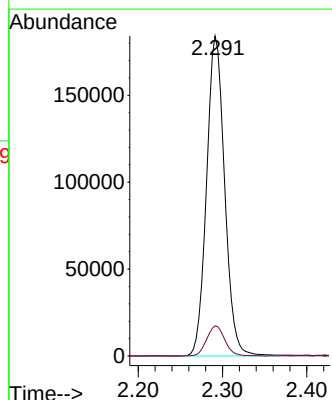
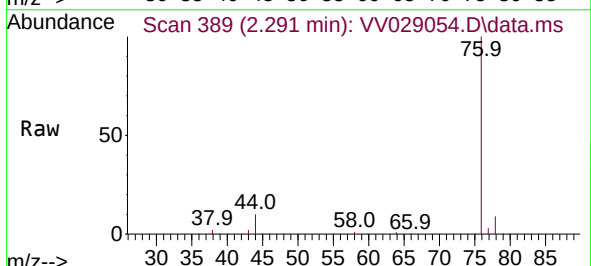
Acq: 17 Nov 2022 06:43

Tgt Ion: 76 Resp: 275139

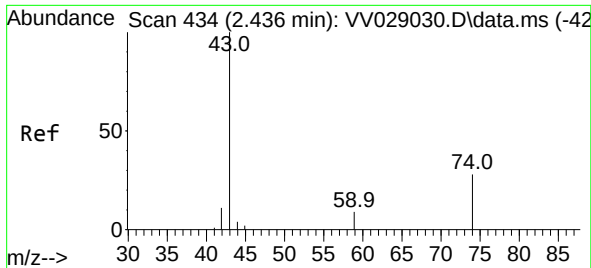
Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2



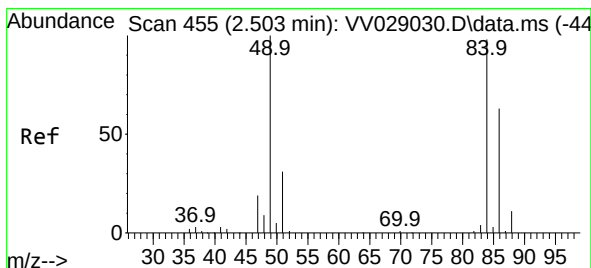
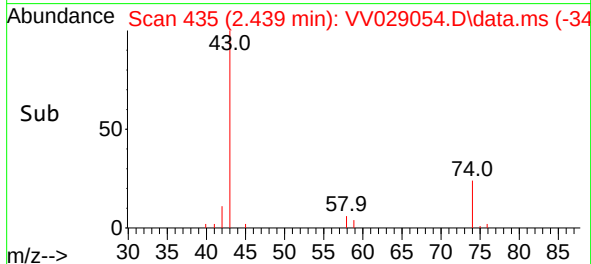
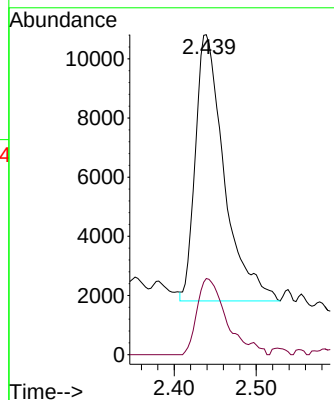
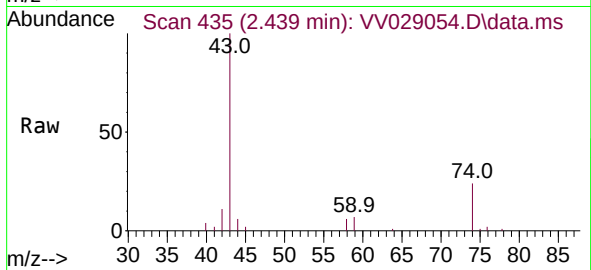




#15  
Methyl Acetate  
Concen: 5.072 ug/L  
RT: 2.439 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

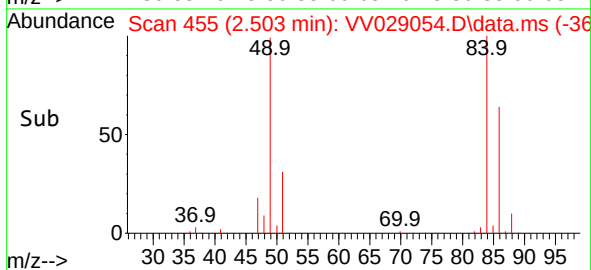
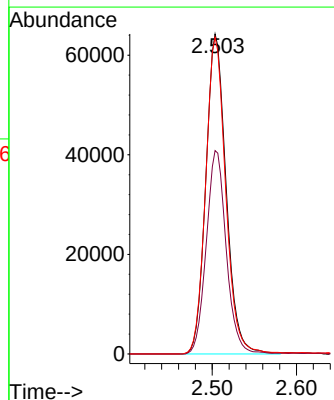
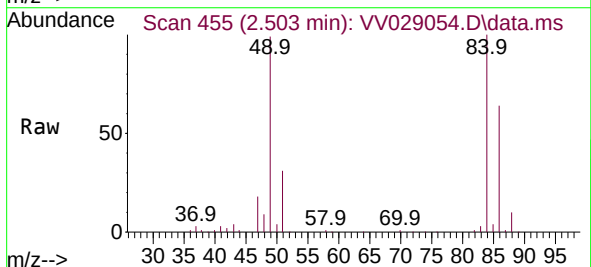
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

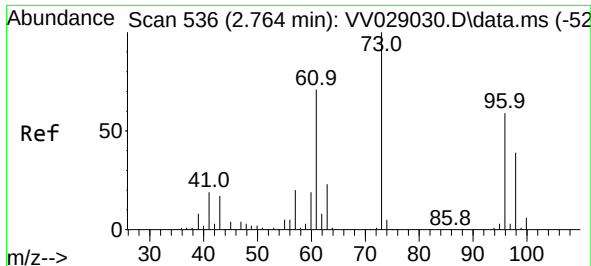
Tgt Ion: 43 Resp: 21979  
Ion Ratio Lower Upper  
43 100  
74 27.8 24.6 37.0



#16  
Methylene chloride  
Concen: 5.049 ug/L  
RT: 2.503 min Scan# 455  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion: 84 Resp: 107481  
Ion Ratio Lower Upper  
84 100  
86 63.6 45.8 85.0  
49 98.9 75.5 140.1

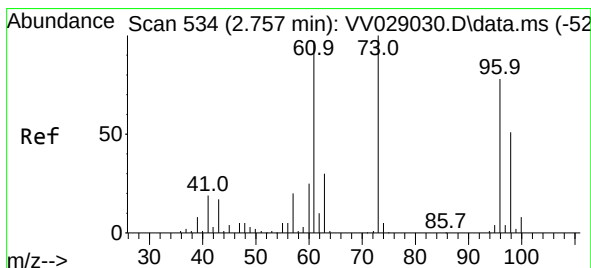
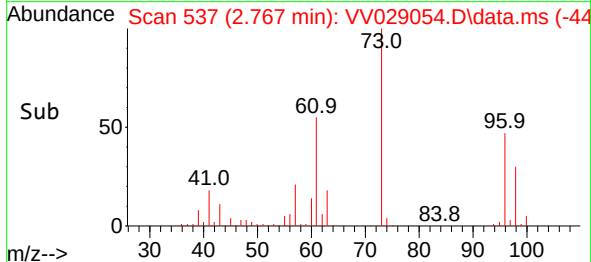
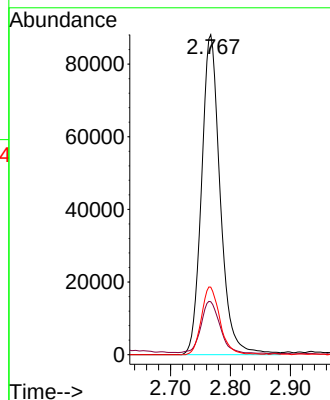
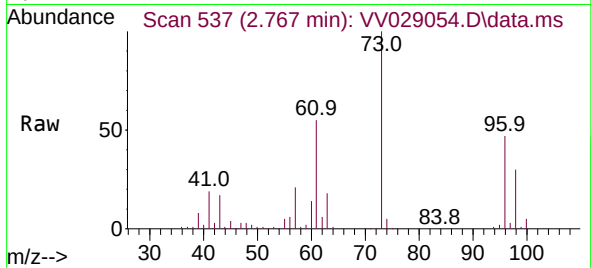




#17  
Methyl tert-butyl Ether  
Concen: 5.425 ug/L  
RT: 2.767 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

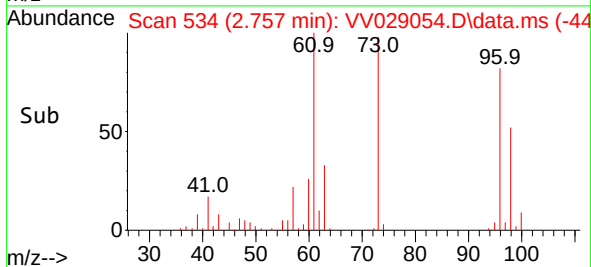
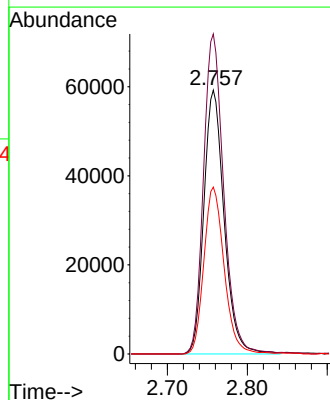
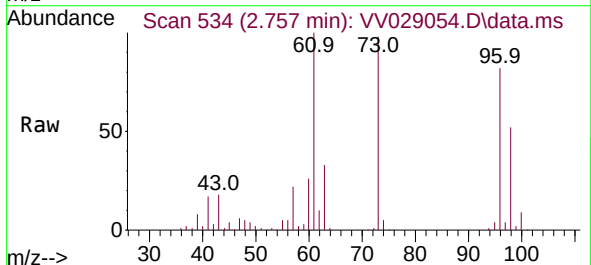
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

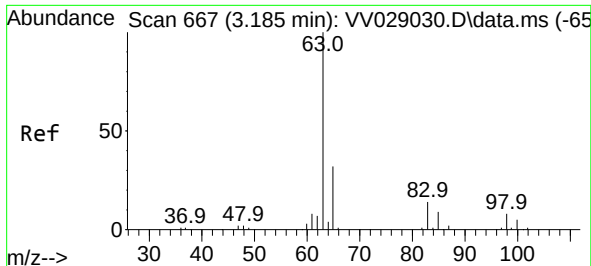
Tgt Ion: 73 Resp: 191482  
Ion Ratio Lower Upper  
73 100  
43 16.5 13.0 19.4  
57 20.9 16.6 24.8



#18  
trans-1,2-Dichloroethene  
Concen: 5.477 ug/L  
RT: 2.757 min Scan# 534  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion: 96 Resp: 104596  
Ion Ratio Lower Upper  
96 100  
61 121.3 91.8 170.6  
98 63.3 46.4 86.2





#19

1,1-Dichloroethane

Concen: 5.315 ug/L

RT: 3.185 min Scan# 6

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005351

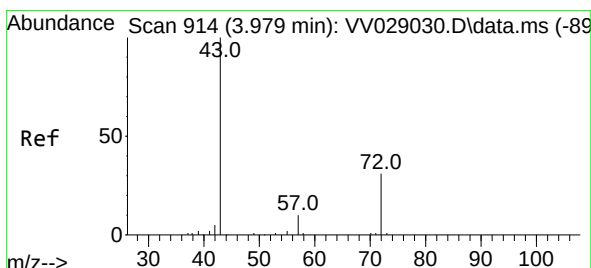
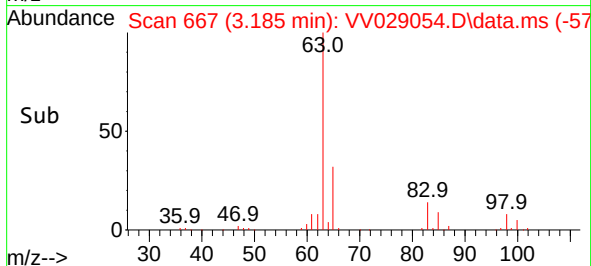
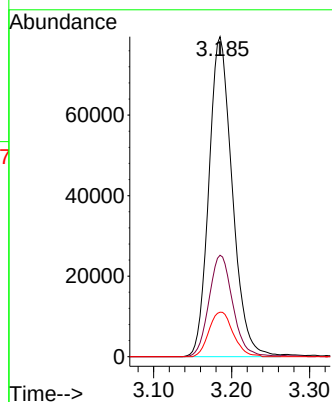
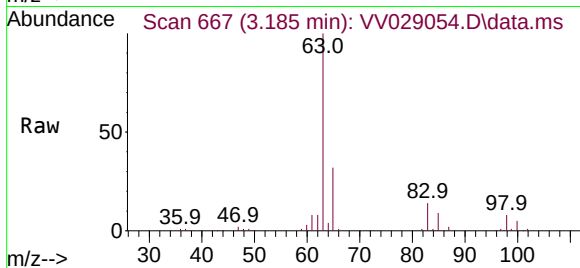
Tgt Ion: 63 Resp: 165933

Ion Ratio Lower Upper

63 100

65 31.7 23.0 42.6

83 13.9 9.4 17.6



#21

2-Butanone

Concen: 38.247 ug/L

RT: 3.989 min Scan# 917

Delta R.T. 0.010 min

Lab File: VV029054.D

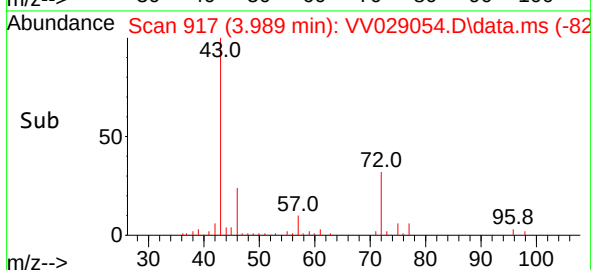
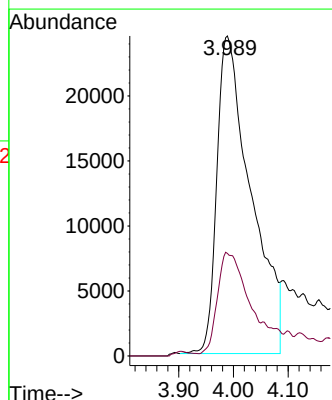
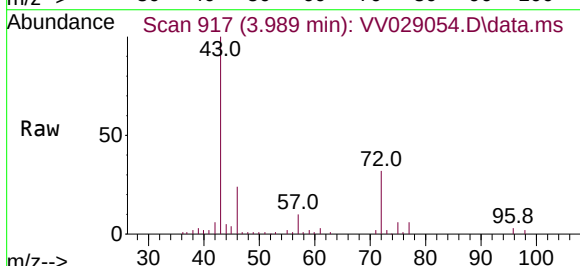
Acq: 17 Nov 2022 06:43

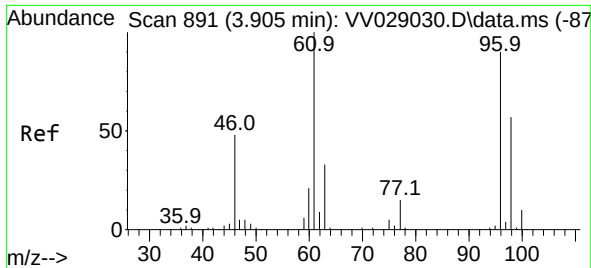
Tgt Ion: 43 Resp: 105726

Ion Ratio Lower Upper

43 100

72 31.9 11.9 35.9

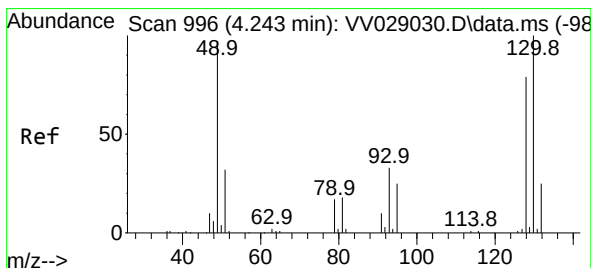
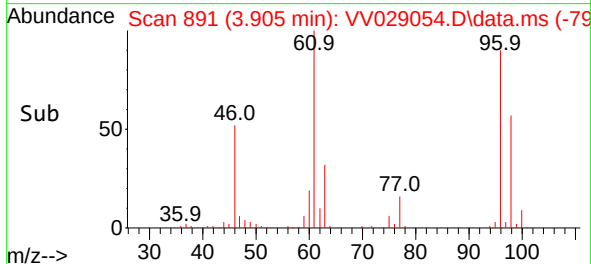
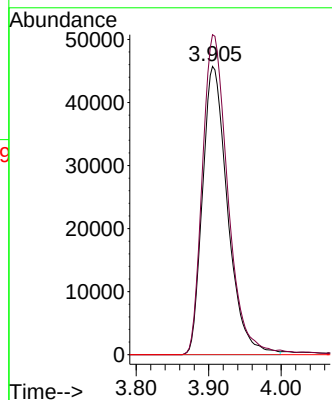
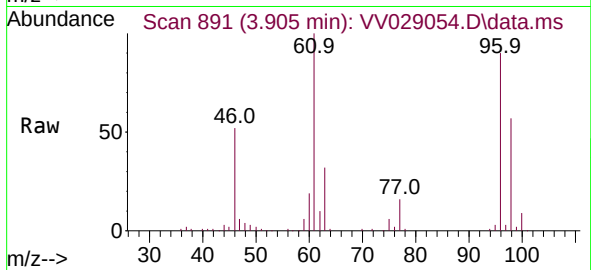




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.656 ug/L  
 RT: 3.905 min Scan# 891  
 Delta R.T. 0.000 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

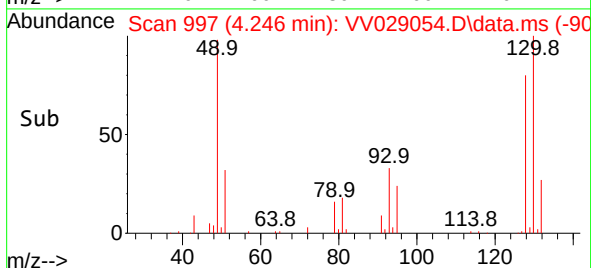
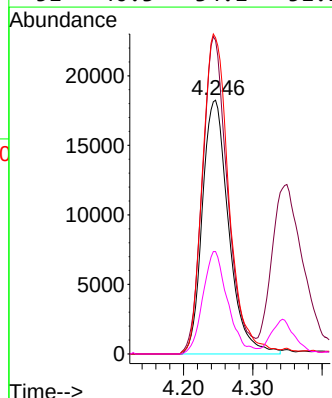
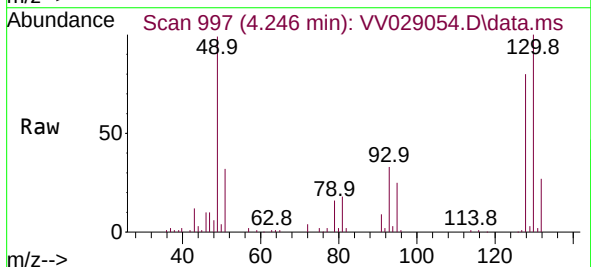
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005351

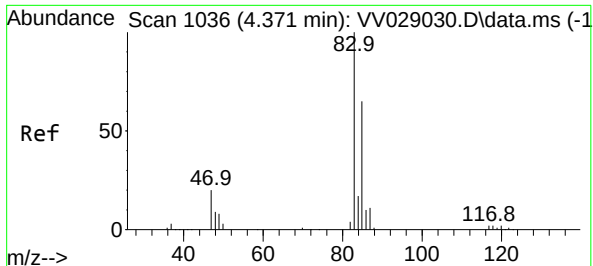
Tgt Ion: 96 Resp: 109806  
 Ion Ratio Lower Upper  
 96 100  
 61 111.0 82.3 152.9  
 68 0.0 0.0 0.0



#23  
 Bromochloromethane  
 Concen: 5.842 ug/L  
 RT: 4.246 min Scan# 997  
 Delta R.T. 0.003 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

Tgt Ion: 128 Resp: 47969  
 Ion Ratio Lower Upper  
 128 100  
 49 123.5 89.5 166.1  
 130 124.6 84.4 156.8  
 51 40.3 34.1 51.1





#25

Chloroform

Concen: 5.491 ug/L

RT: 4.368 min Scan# 1035

Delta R.T. -0.003 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

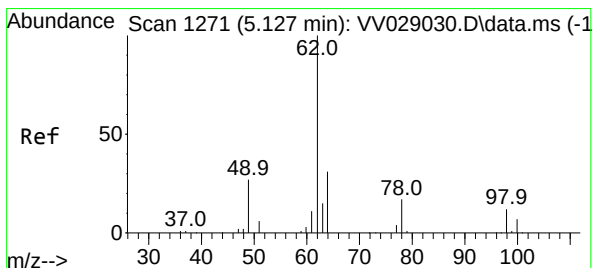
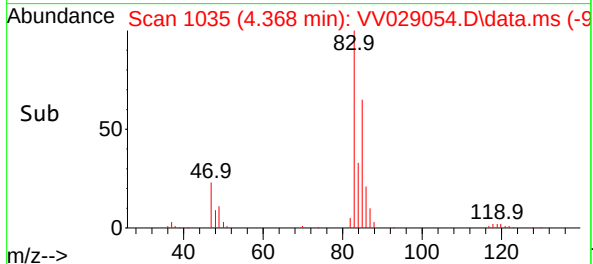
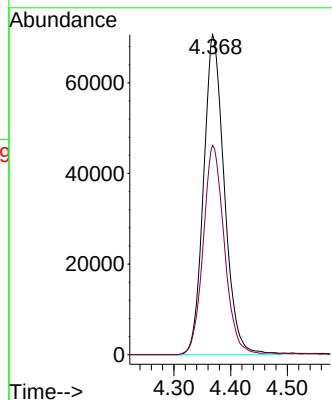
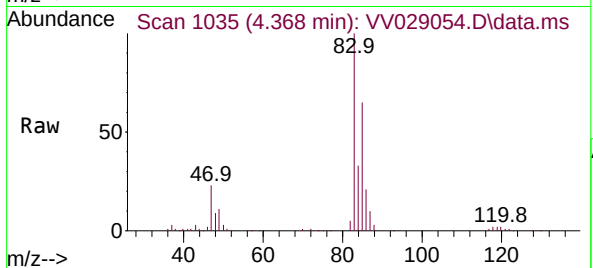
VSTD005351

Tgt Ion: 83 Resp: 179704

Ion Ratio Lower Upper

83 100

85 65.4 43.7 81.1



#27

1,2-Dichloroethane

Concen: 5.420 ug/L

RT: 5.127 min Scan# 1271

Delta R.T. 0.000 min

Lab File: VV029054.D

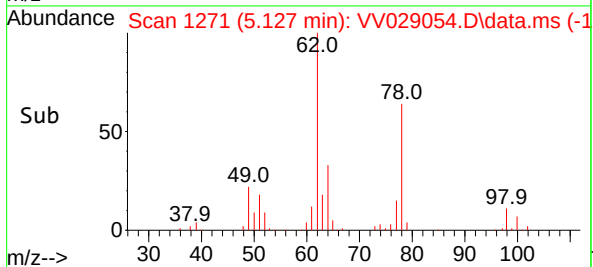
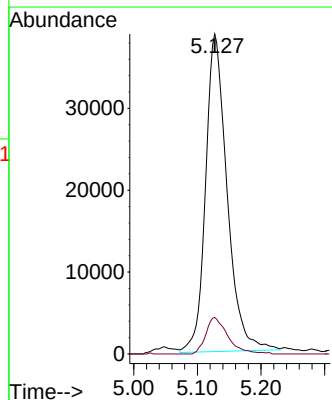
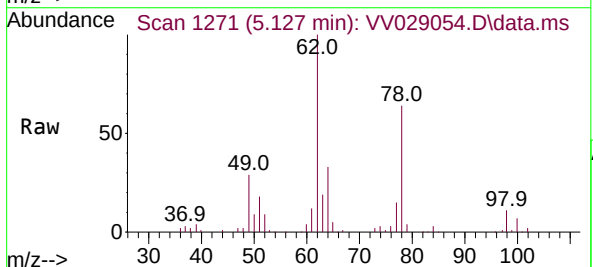
Acq: 17 Nov 2022 06:43

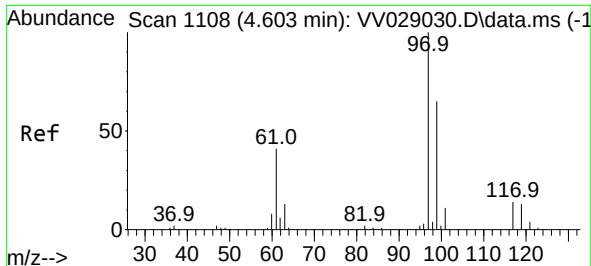
Tgt Ion: 62 Resp: 91364

Ion Ratio Lower Upper

62 100

98 11.4 9.0 13.6





#29

1,1,1-Trichloroethane

Concen: 5.073 ug/L

RT: 4.603 min Scan# 1108

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005351

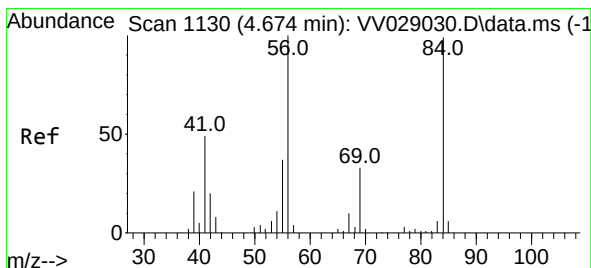
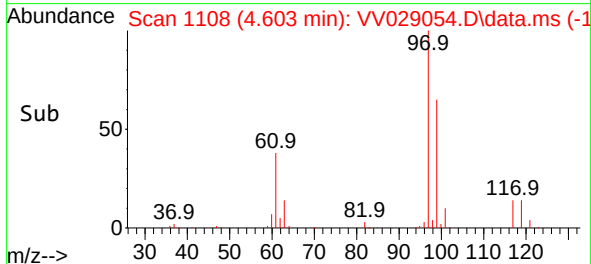
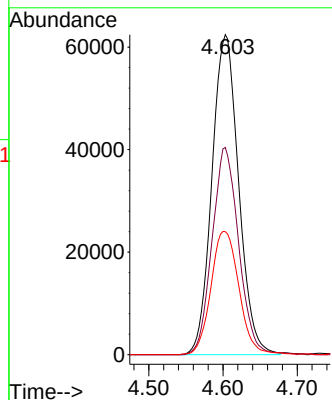
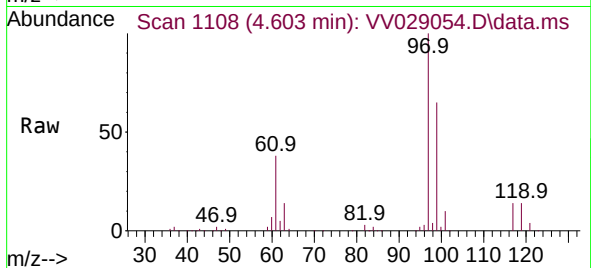
Tgt Ion: 97 Resp: 156223

Ion Ratio Lower Upper

97 100

99 64.3 52.7 79.1

61 40.6 33.8 50.6



#30

Cyclohexane

Concen: 4.856 ug/L

RT: 4.674 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

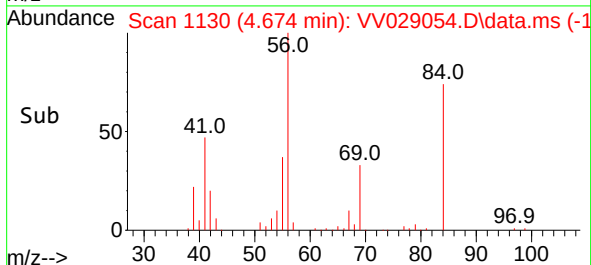
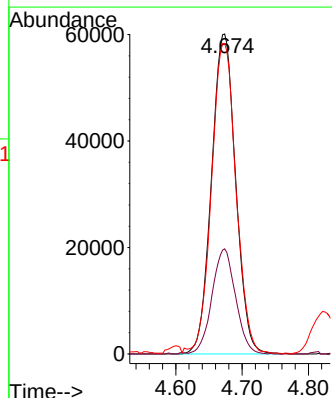
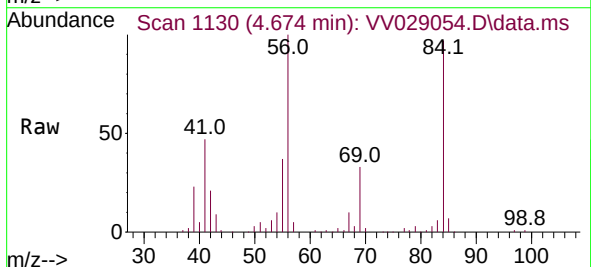
Tgt Ion: 56 Resp: 152008

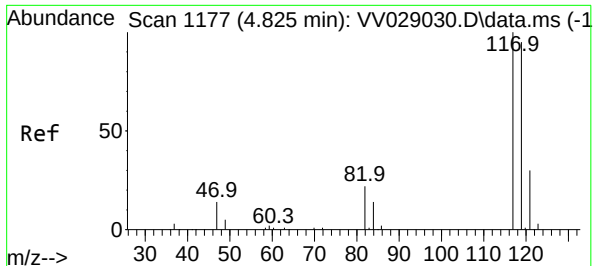
Ion Ratio Lower Upper

56 100

69 32.1 26.1 39.1

84 98.7 77.9 116.9

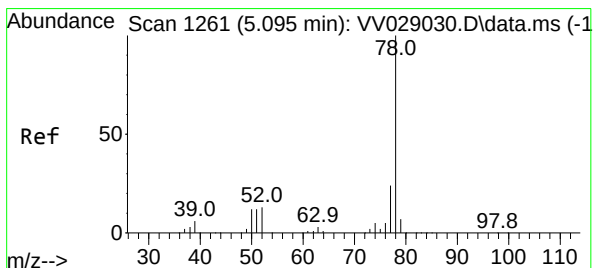
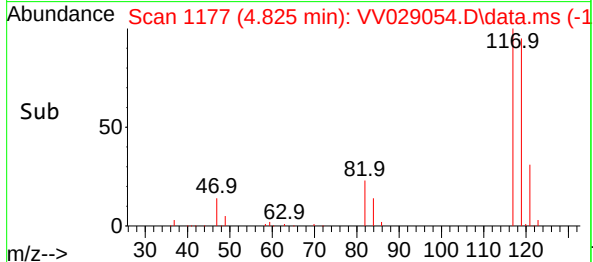
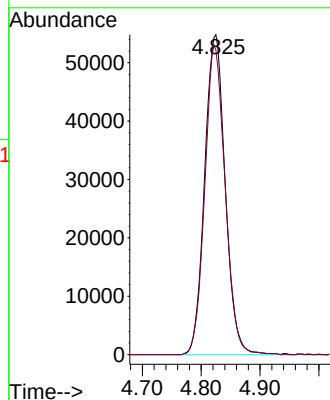
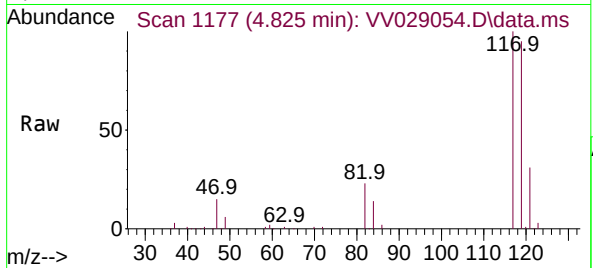




#31  
Carbon tetrachloride  
Concen: 5.014 ug/L  
RT: 4.825 min Scan# 1177  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

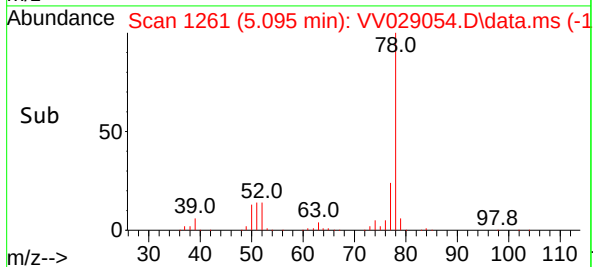
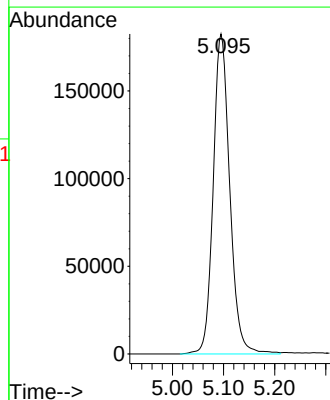
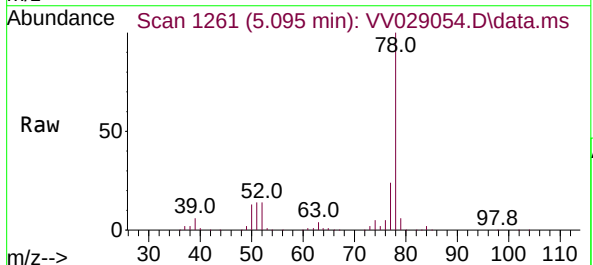
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

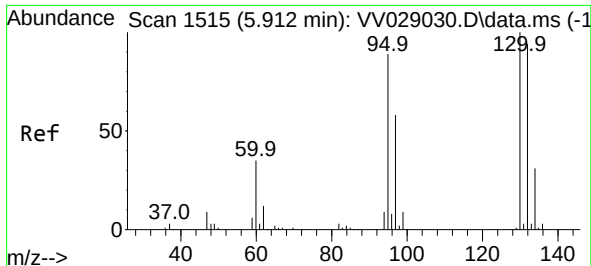
Tgt Ion:117 Resp: 132988  
Ion Ratio Lower Upper  
117 100  
119 95.8 77.0 115.6



#33  
Benzene  
Concen: 5.126 ug/L  
RT: 5.095 min Scan# 1261  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion: 78 Resp: 411070

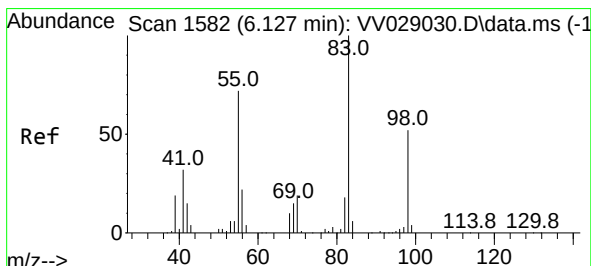
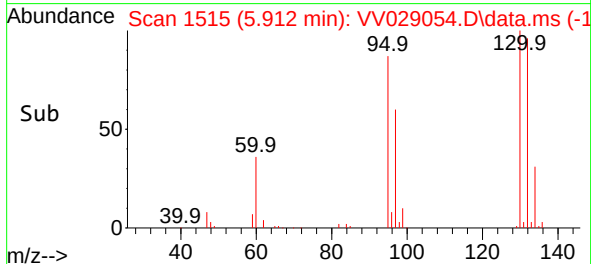
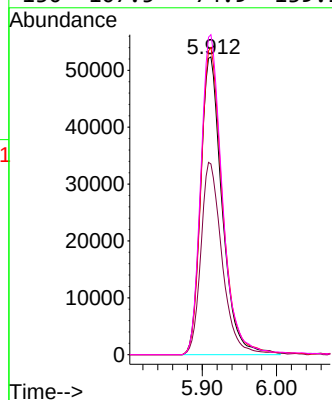
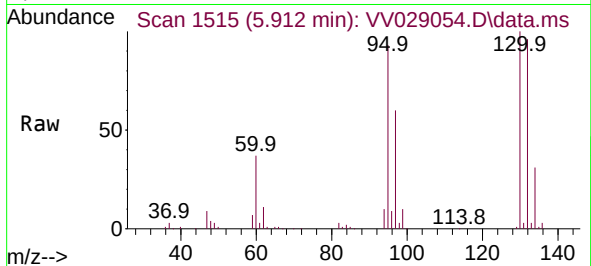




#34  
Trichloroethene  
Concen: 5.128 ug/L  
RT: 5.912 min Scan# 1515  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

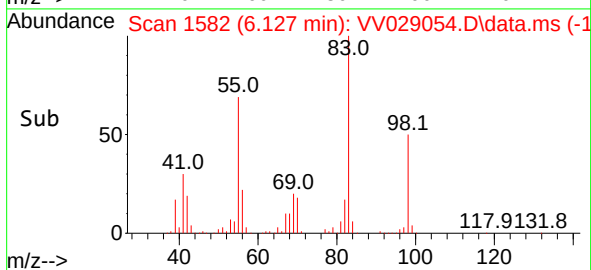
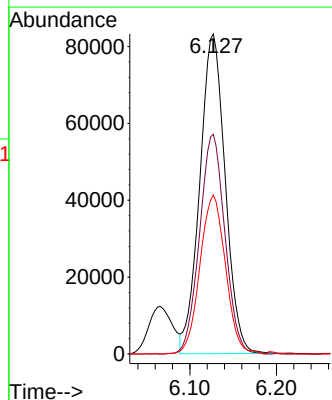
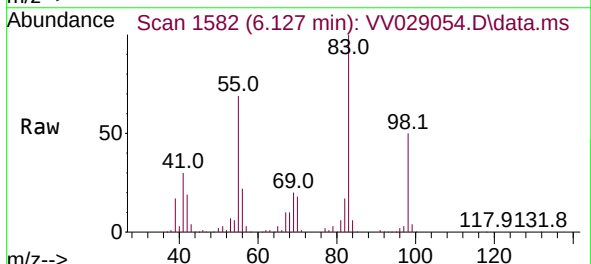
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

Tgt Ion: 95 Resp: 105289  
Ion Ratio Lower Upper  
95 100  
97 64.1 45.6 84.8  
132 103.2 69.1 128.3  
130 107.5 74.9 139.1

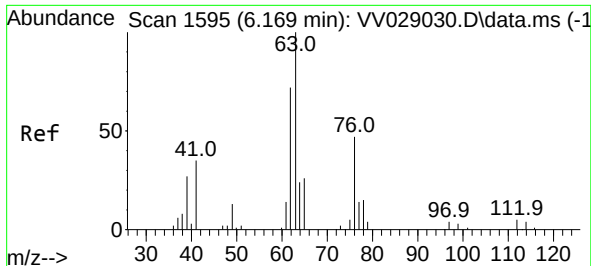


#35  
Methylcyclohexane  
Concen: 4.704 ug/L  
RT: 6.127 min Scan# 1582  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion: 83 Resp: 169728  
Ion Ratio Lower Upper  
83 100  
55 68.6 55.8 83.6  
98 50.0 38.2 57.2







#37

1,2-Dichloropropane

Concen: 5.060 ug/L

RT: 6.169 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

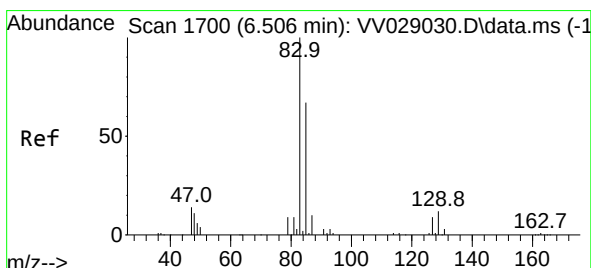
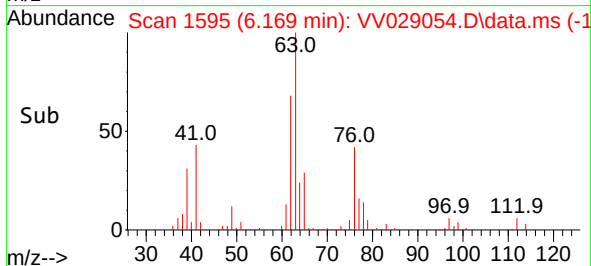
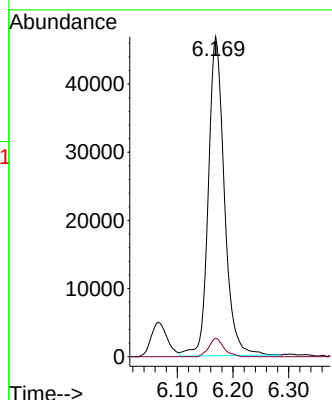
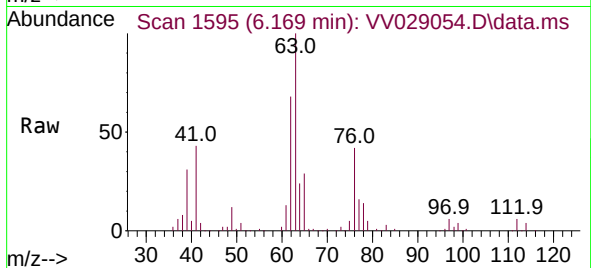
VSTD005351

Tgt Ion: 63 Resp: 93574

Ion Ratio Lower Upper

63 100

112 5.4 4.0 6.0



#38

Bromodichloromethane

Concen: 4.901 ug/L

RT: 6.506 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

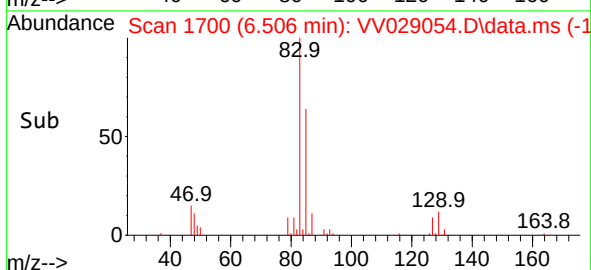
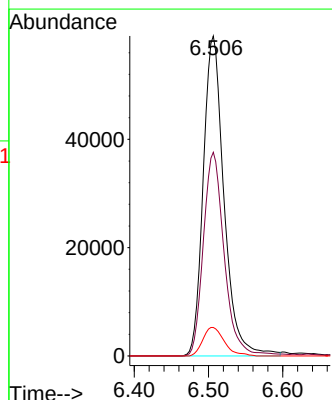
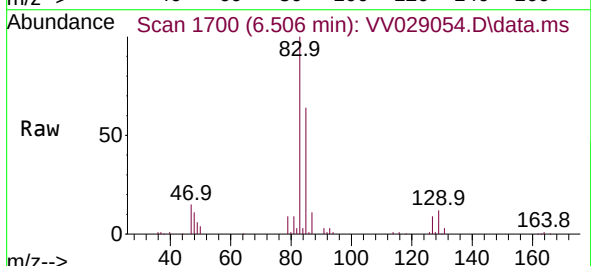
Tgt Ion: 83 Resp: 114795

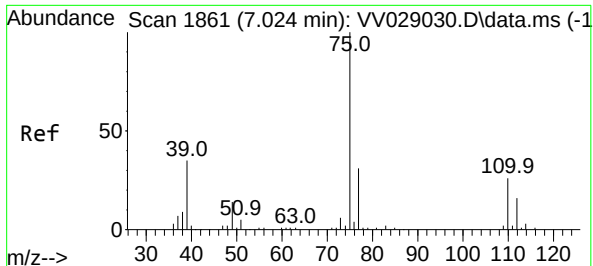
Ion Ratio Lower Upper

83 100

85 63.6 46.1 85.5

127 8.9 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 4.638 ug/L

RT: 7.024 min Scan# 1861

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

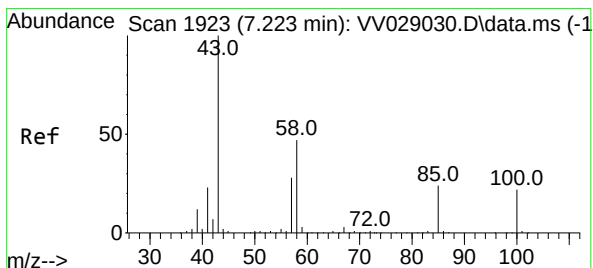
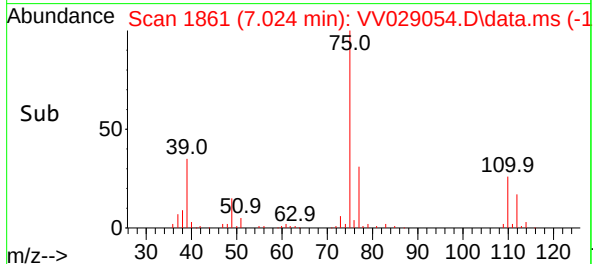
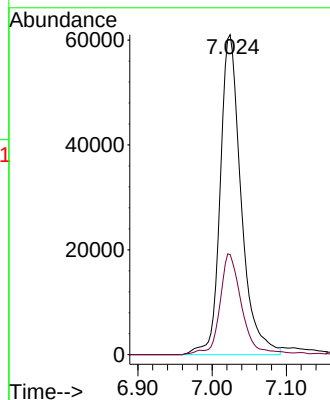
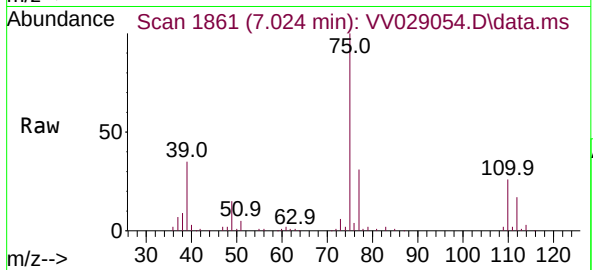
VSTD005351

Tgt Ion: 75 Resp: 119757

Ion Ratio Lower Upper

75 100

77 31.3 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 53.697 ug/L

RT: 7.223 min Scan# 1923

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

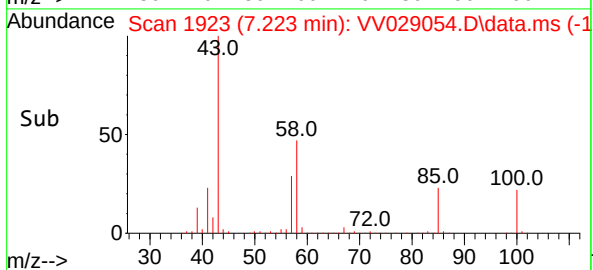
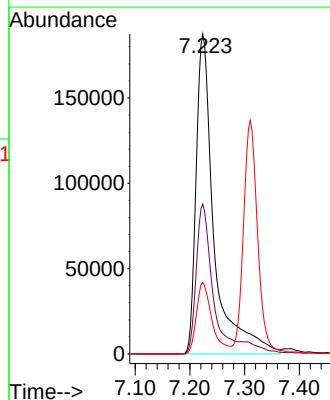
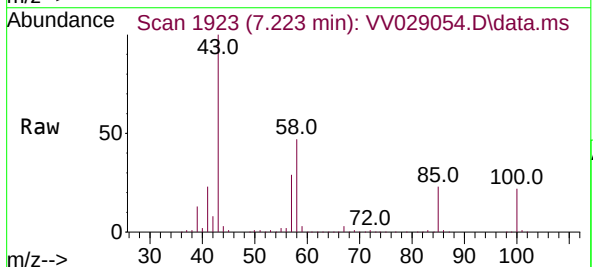
Tgt Ion: 43 Resp: 427261

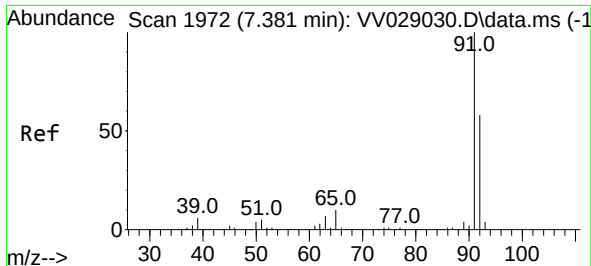
Ion Ratio Lower Upper

43 100

58 42.0 36.6 55.0

100 19.5 14.5 21.7





#42

Toluene

Concen: 5.207 ug/L

RT: 7.381 min Scan# 1972

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

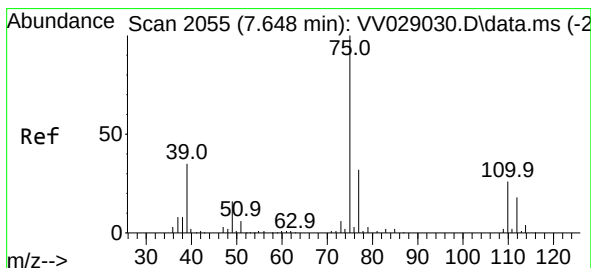
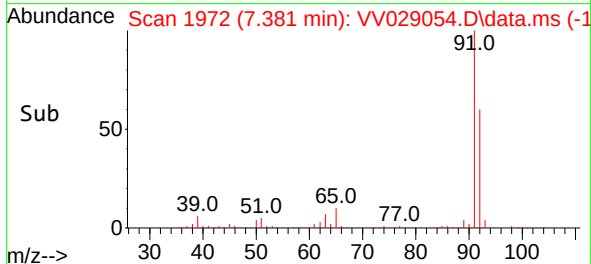
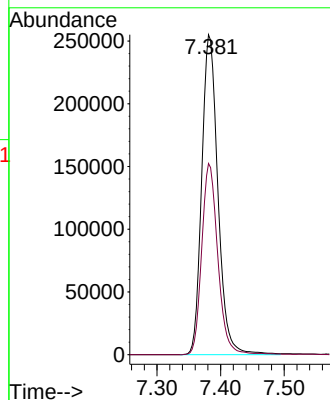
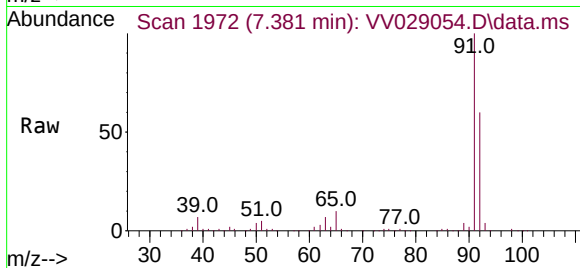
VSTD005351

Tgt Ion: 91 Resp: 451113

Ion Ratio Lower Upper

91 100

92 59.7 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 4.783 ug/L

RT: 7.648 min Scan# 2055

Delta R.T. 0.000 min

Lab File: VV029054.D

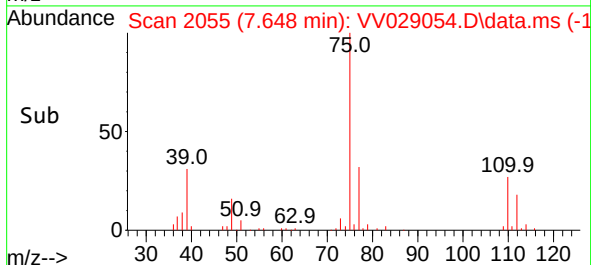
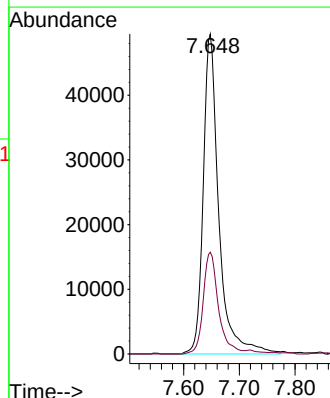
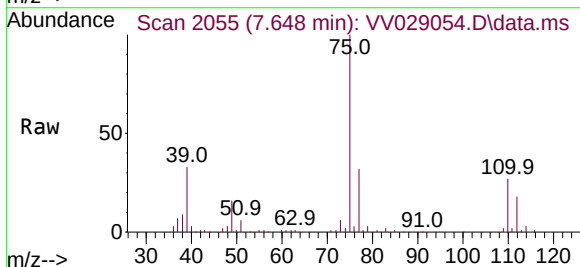
Acq: 17 Nov 2022 06:43

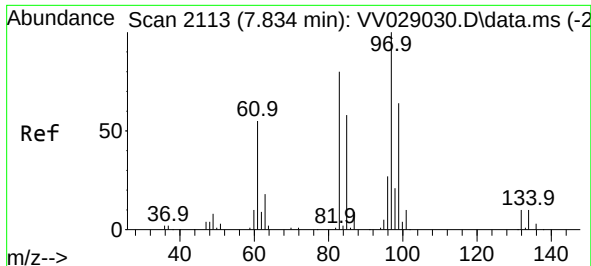
Tgt Ion: 75 Resp: 95869

Ion Ratio Lower Upper

75 100

77 31.8 22.2 41.2

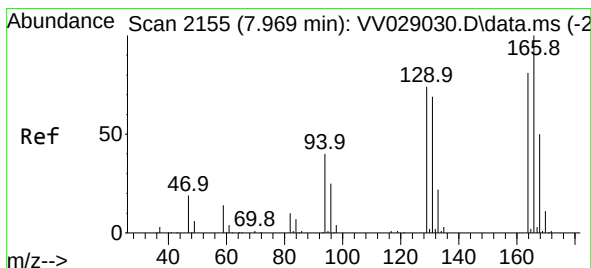
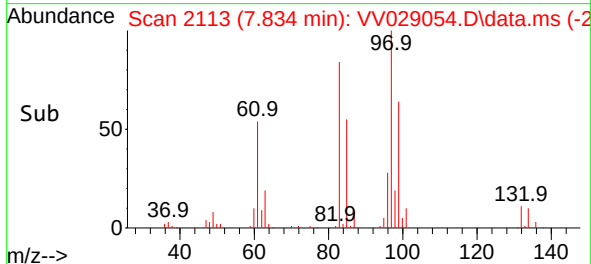
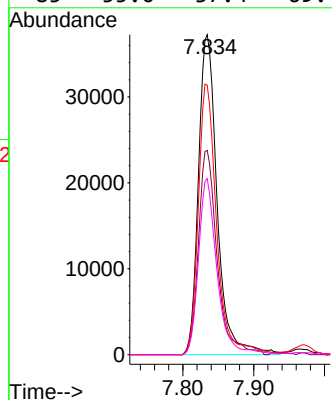
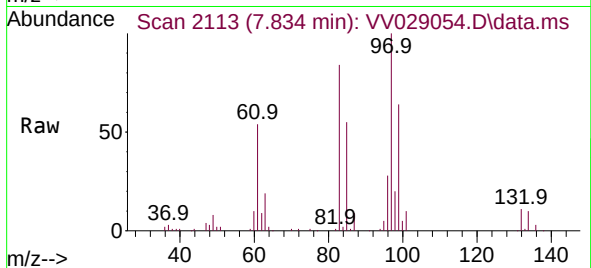




#45  
1,1,2-Trichloroethane  
Concen: 5.663 ug/L  
RT: 7.834 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

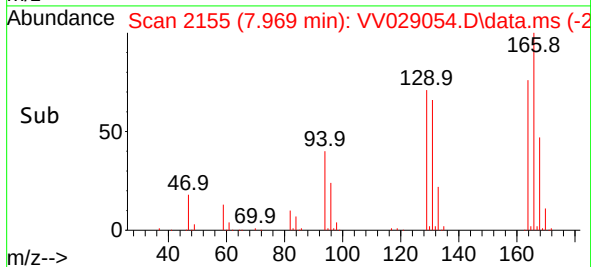
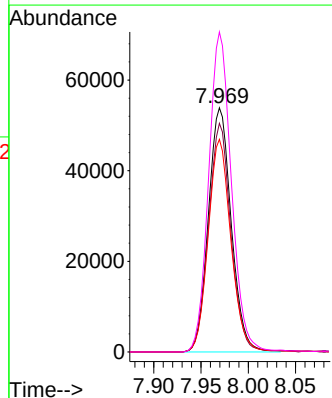
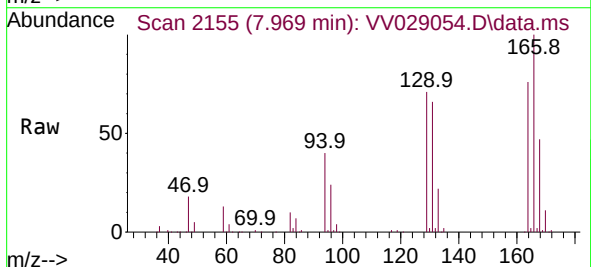
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

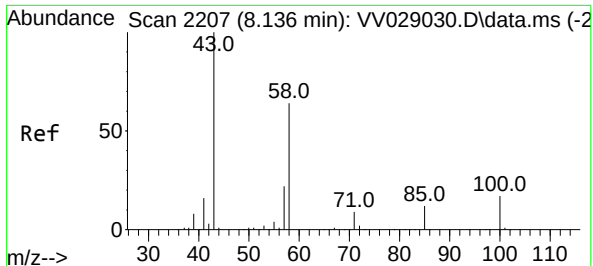
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 68563 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.9  | 41.5  | 77.1  |
| 83       | 84.3  | 60.0  | 111.4 |
| 85       | 55.0  | 37.4  | 69.4  |



#47  
Tetrachloroethene  
Concen: 5.518 ug/L  
RT: 7.969 min Scan# 2155  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 90724 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 93.6  | 63.9  | 118.7 |
| 131      | 87.1  | 61.8  | 114.8 |
| 166      | 131.1 | 90.2  | 167.4 |



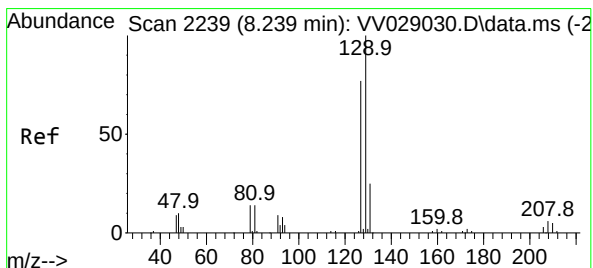
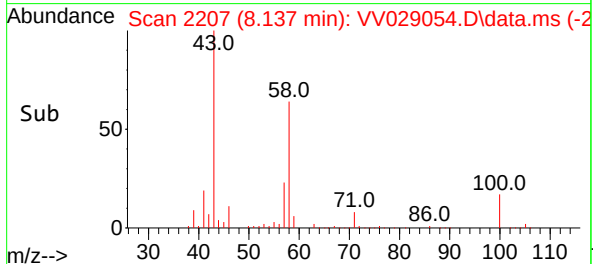
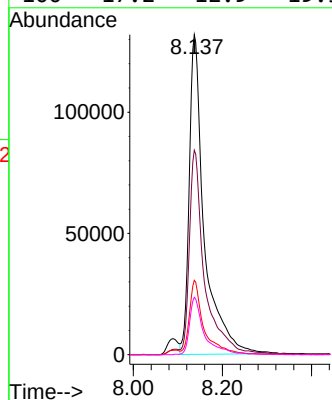
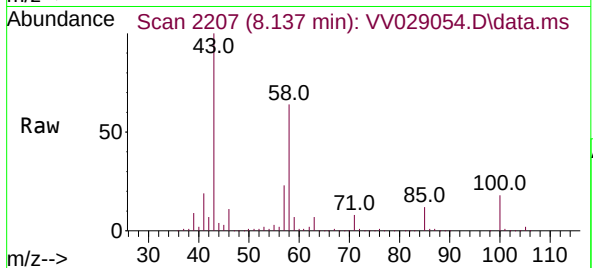


#48  
2-Hexanone  
Concen: 55.516 ug/L  
RT: 8.137 min Scan# 2207  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

Tgt Ion: 43 Resp: 309434

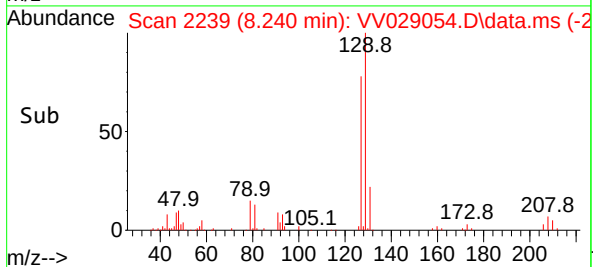
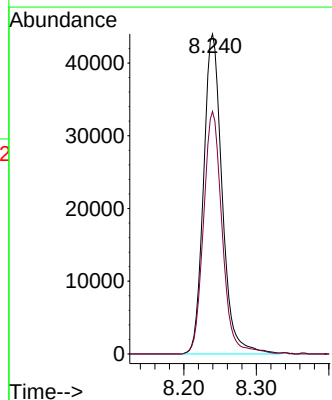
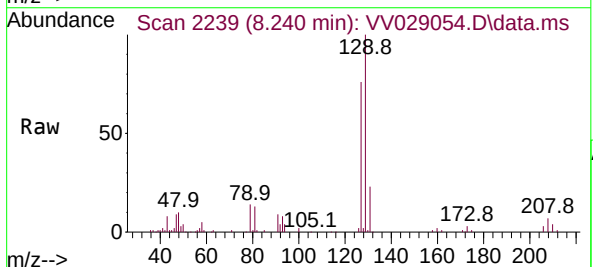
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 62.5  | 50.2  | 75.4  |
| 57  | 21.7  | 17.8  | 26.8  |
| 100 | 17.2  | 12.9  | 19.3  |

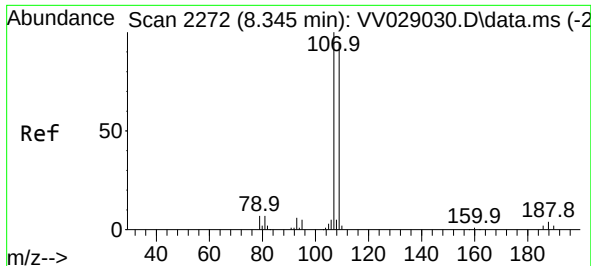


#49  
Dibromochloromethane  
Concen: 5.349 ug/L  
RT: 8.240 min Scan# 2239  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion: 129 Resp: 78296

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 75.8  | 54.5  | 101.1 |





#50

1,2-Dibromoethane

Concen: 5.605 ug/L

RT: 8.346 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005351

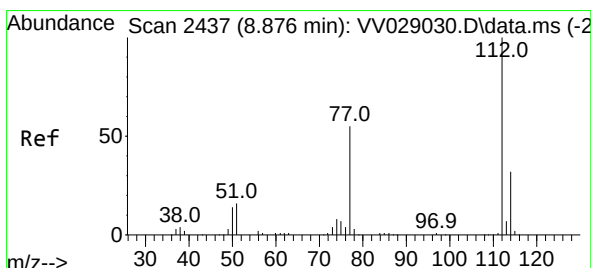
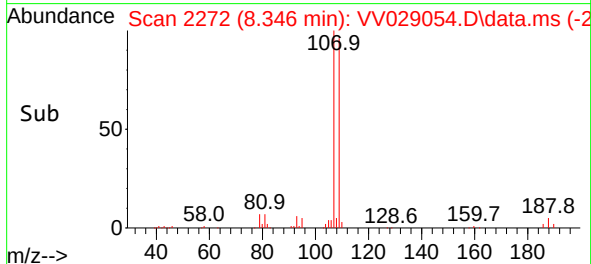
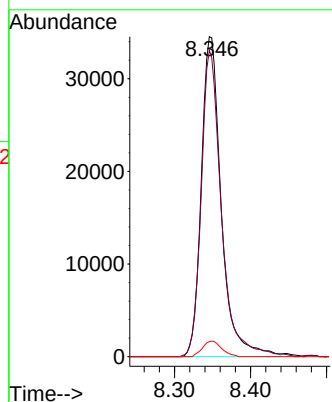
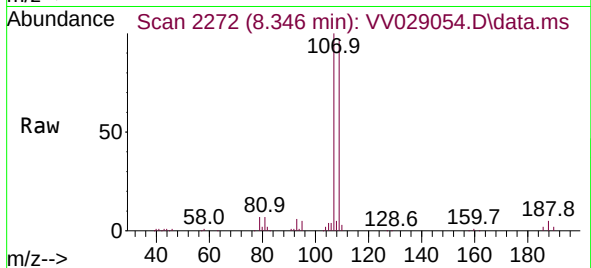
Tgt Ion:107 Resp: 63036

Ion Ratio Lower Upper

107 100

109 95.7 64.4 119.6

188 4.7 2.9 4.3#



#51

Chlorobenzene

Concen: 5.456 ug/L

RT: 8.876 min Scan# 2437

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

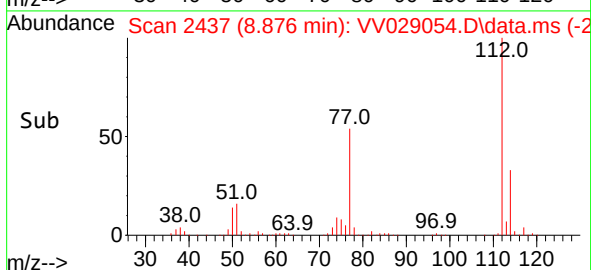
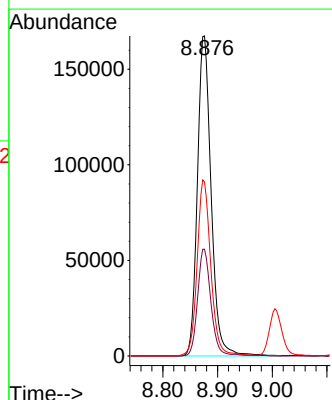
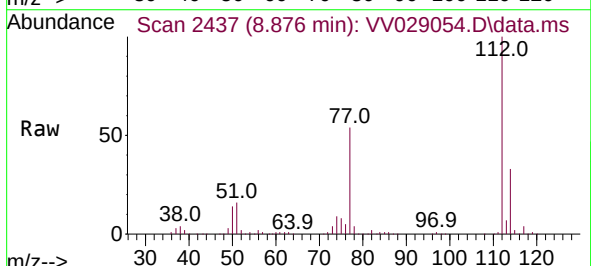
Tgt Ion:112 Resp: 292260

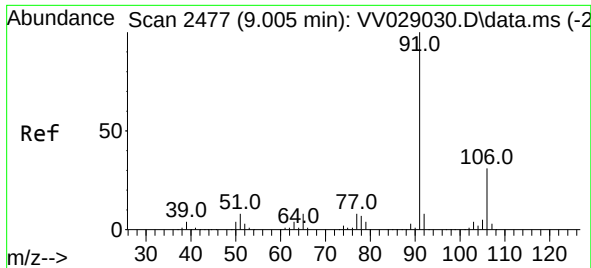
Ion Ratio Lower Upper

112 100

114 33.4 22.4 41.6

77 54.4 44.4 66.6

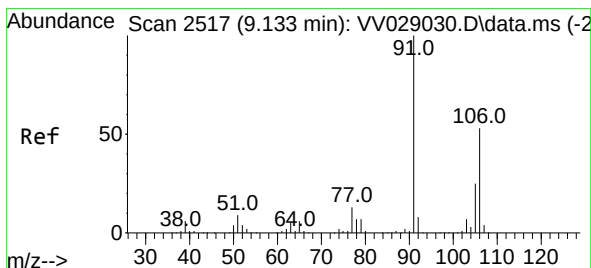
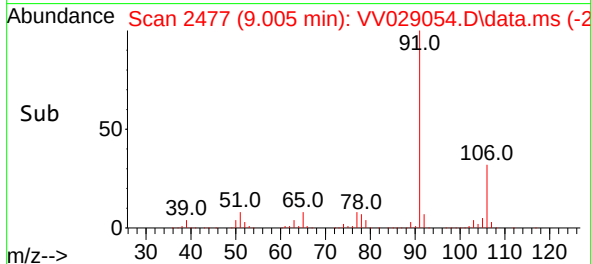
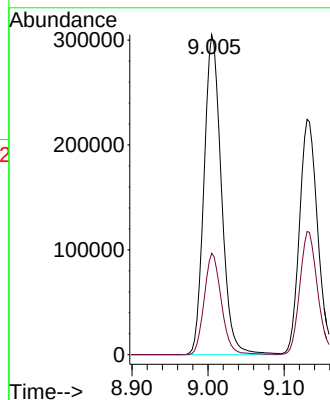
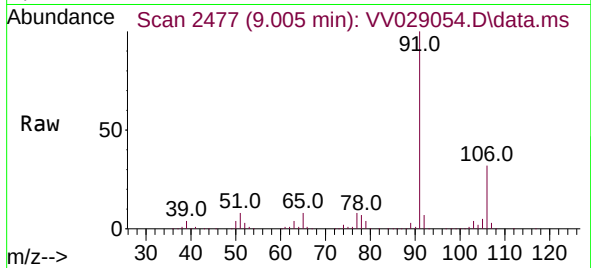




#52  
Ethylbenzene  
Concen: 5.366 ug/L  
RT: 9.005 min Scan# 2477  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

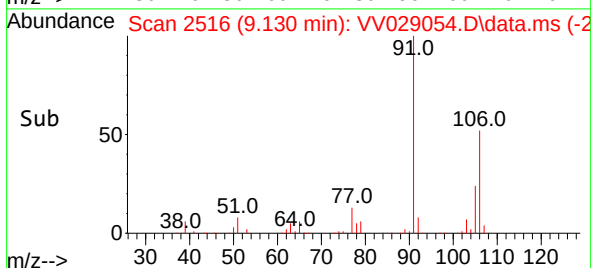
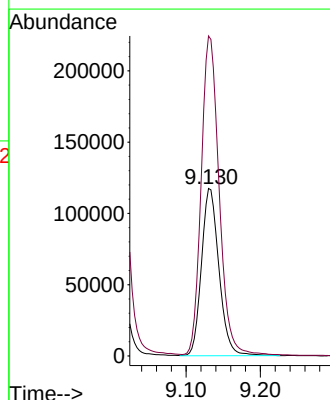
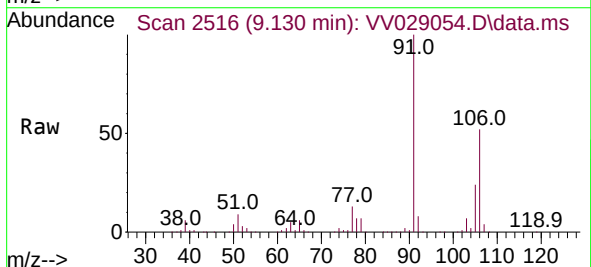
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

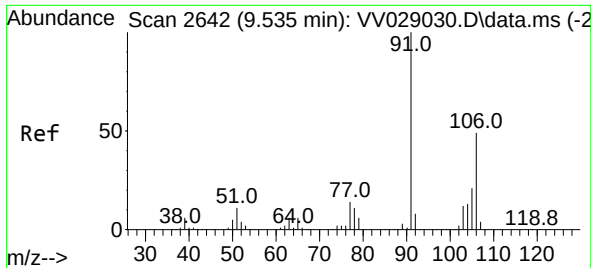
Tgt Ion: 91 Resp: 484045  
Ion Ratio Lower Upper  
91 100  
106 31.7 21.6 40.2



#53  
m,p-Xylene  
Concen: 5.355 ug/L  
RT: 9.130 min Scan# 2516  
Delta R.T. -0.003 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion: 106 Resp: 192120  
Ion Ratio Lower Upper  
106 100  
91 191.1 139.1 258.3

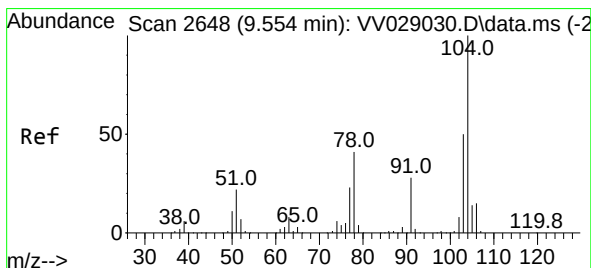
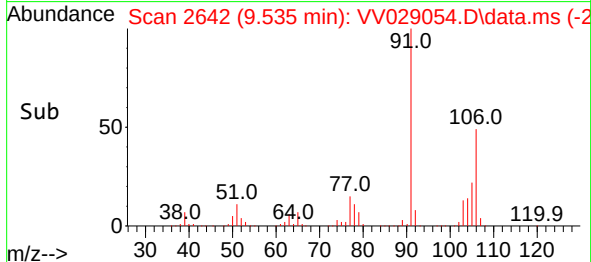
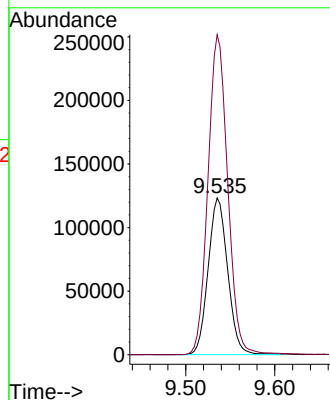
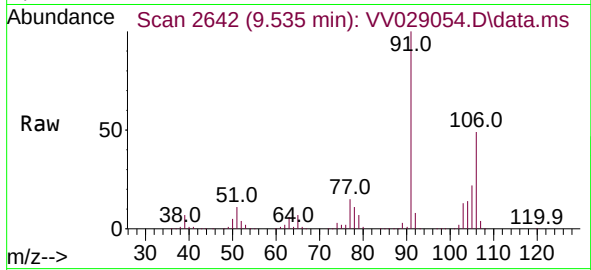




#54  
o-Xylene  
Concen: 5.506 ug/L  
RT: 9.535 min Scan# 2642  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

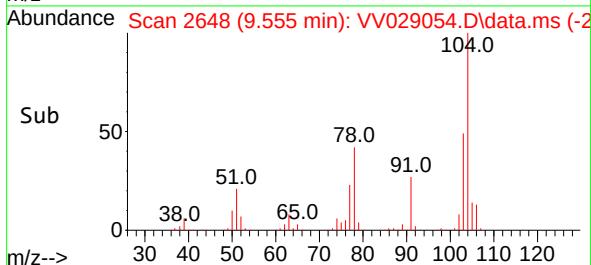
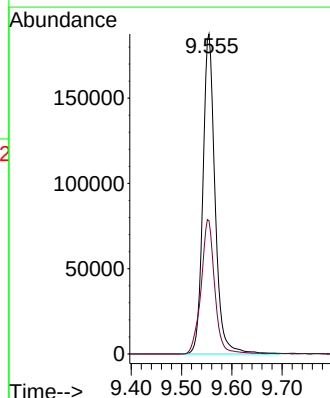
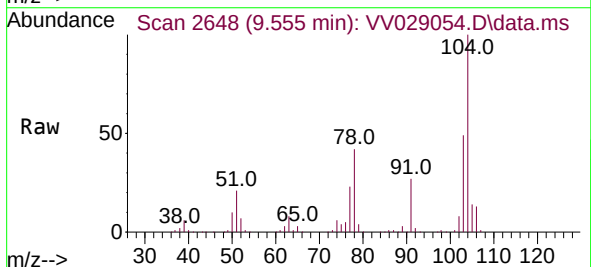
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

Tgt Ion:106 Resp: 187778  
Ion Ratio Lower Upper  
106 100  
91 204.0 145.7 270.7

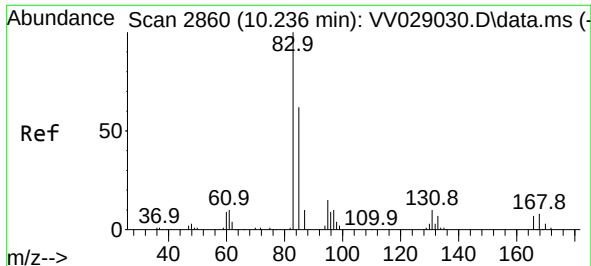


#55  
Styrene  
Concen: 5.527 ug/L  
RT: 9.555 min Scan# 2648  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion:104 Resp: 316126  
Ion Ratio Lower Upper  
104 100  
78 41.6 30.1 55.9



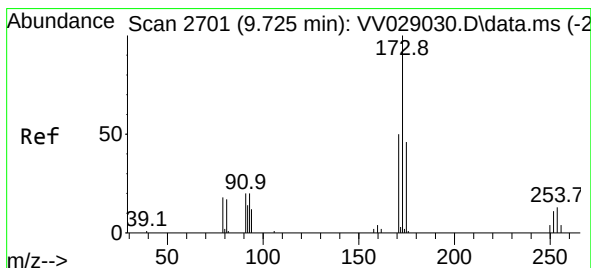
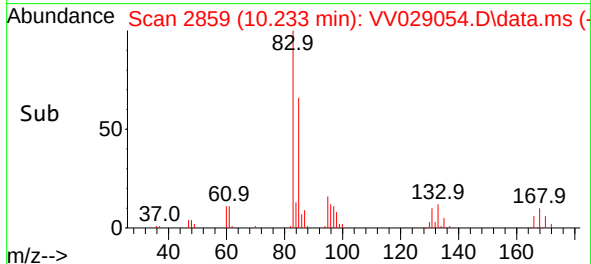
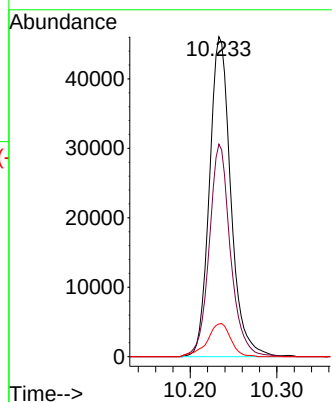
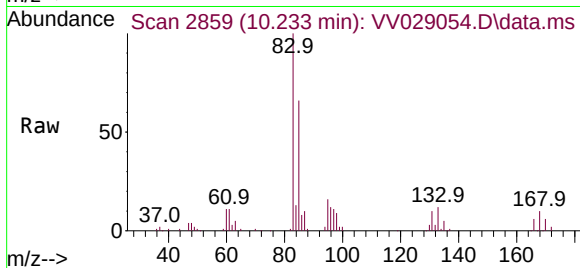




#57  
1,1,2,2-Tetrachloroethane  
Concen: 5.593 ug/L  
RT: 10.233 min Scan# 2859  
Delta R.T. -0.003 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

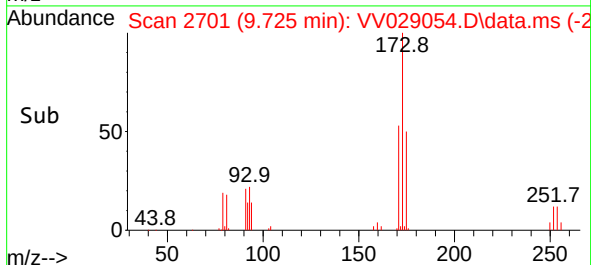
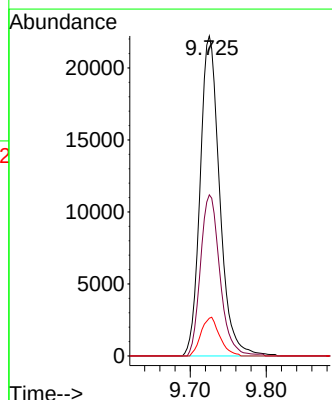
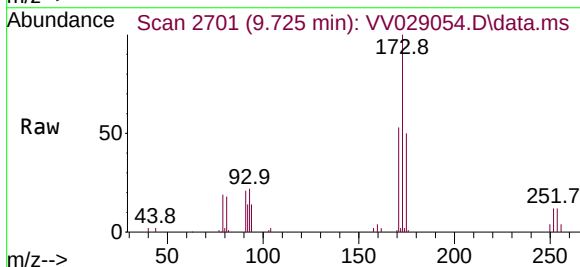
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

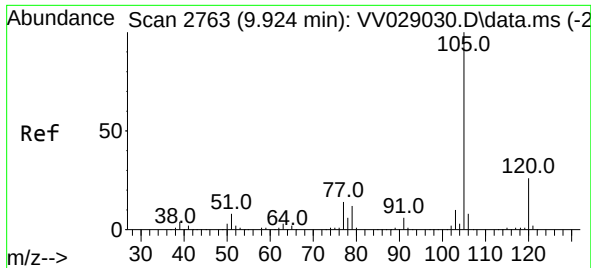
Tgt Ion: 83 Resp: 78918  
Ion Ratio Lower Upper  
83 100  
85 66.4 45.2 84.0  
131 10.3 7.5 11.3



#59  
Bromoform  
Concen: 5.243 ug/L  
RT: 9.725 min Scan# 2701  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion: 173 Resp: 39699  
Ion Ratio Lower Upper  
173 100  
175 50.0 38.2 57.4  
254 11.6 8.5 12.7

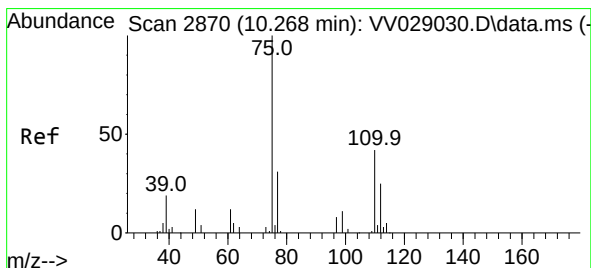
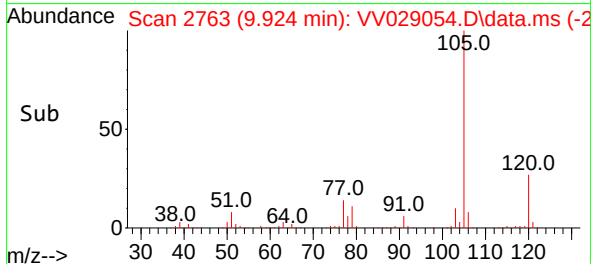
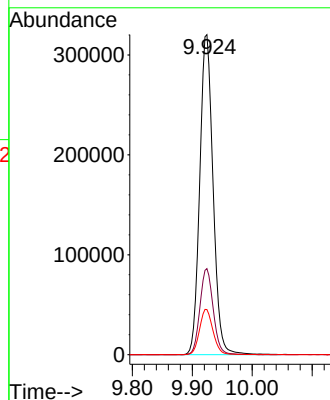
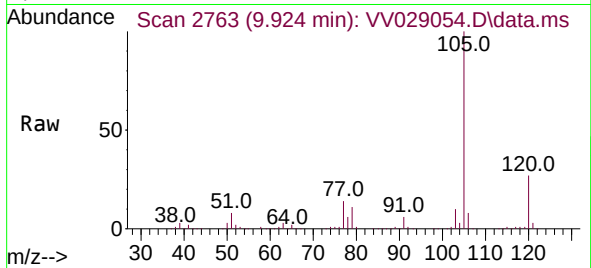




#60  
Isopropylbenzene  
Concen: 5.509 ug/L  
RT: 9.924 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

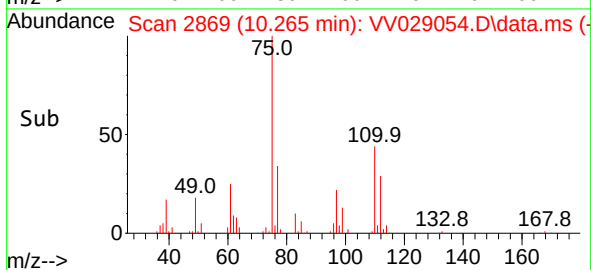
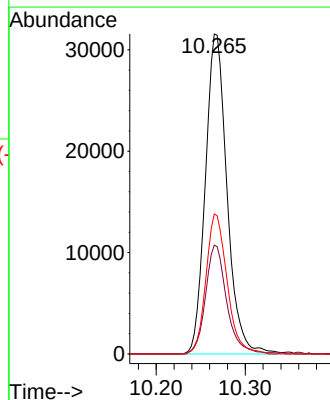
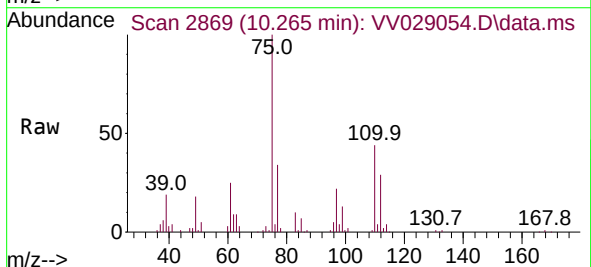
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005351

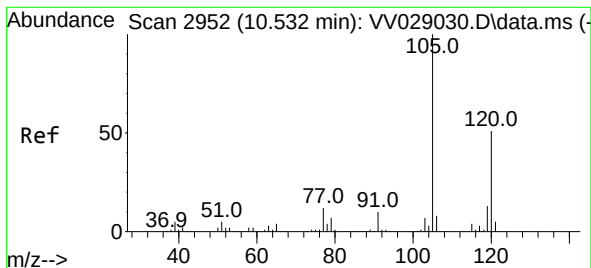
Tgt Ion:105 Resp: 496651  
Ion Ratio Lower Upper  
105 100  
120 26.8 21.3 31.9  
77 14.3 11.8 17.8



#61  
1,2,3-Trichloropropane  
Concen: 5.613 ug/L  
RT: 10.265 min Scan# 2869  
Delta R.T. -0.003 min  
Lab File: VV029054.D  
Acq: 17 Nov 2022 06:43

Tgt Ion: 75 Resp: 53268  
Ion Ratio Lower Upper  
75 100  
77 33.0 26.2 39.2  
110 42.7 32.6 48.8





#62

1,3,5-Trimethylbenzene

Concen: 5.438 ug/L

RT: 10.532 min Scan# 2952

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

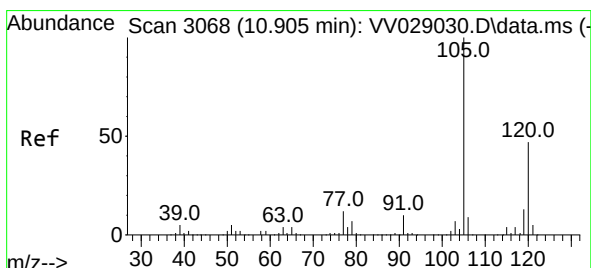
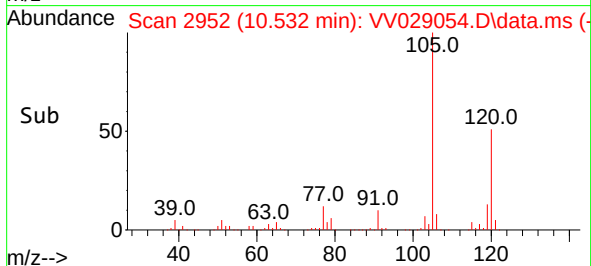
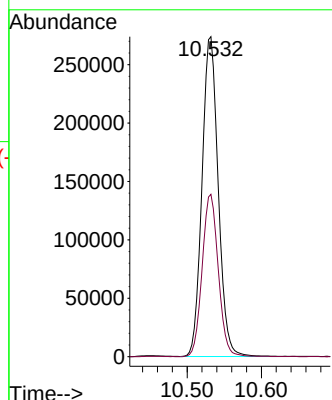
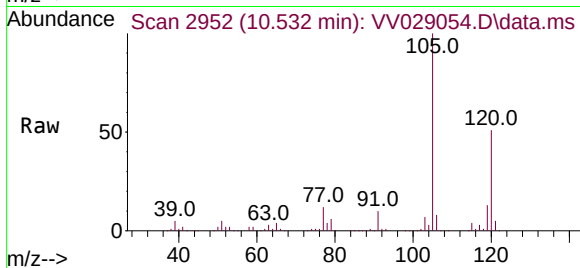
VSTD005351

Tgt Ion:105 Resp: 415261

Ion Ratio Lower Upper

105 100

120 50.5 39.9 59.9



#63

1,2,4-Trimethylbenzene

Concen: 5.420 ug/L

RT: 10.905 min Scan# 3068

Delta R.T. 0.000 min

Lab File: VV029054.D

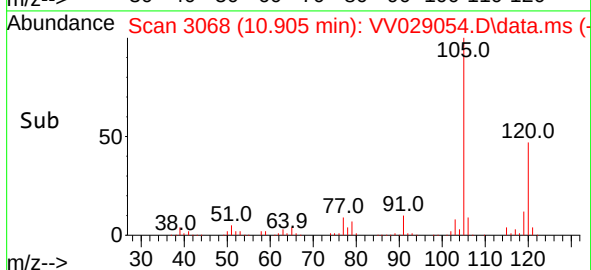
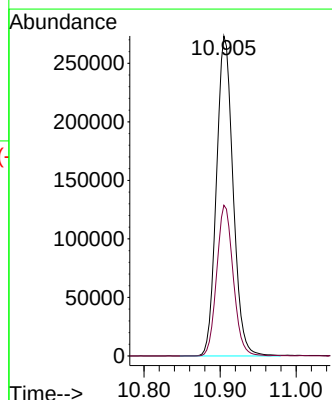
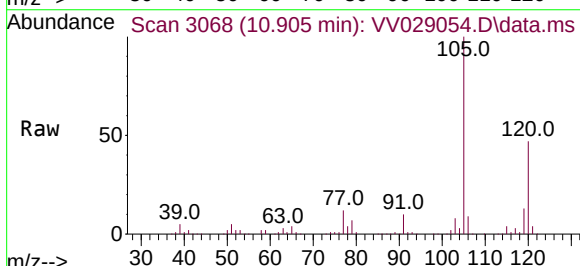
Acq: 17 Nov 2022 06:43

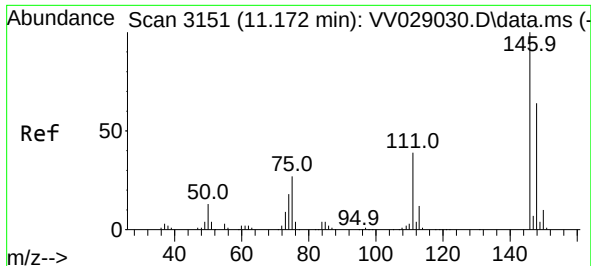
Tgt Ion:105 Resp: 414598

Ion Ratio Lower Upper

105 100

120 46.8 37.8 56.8

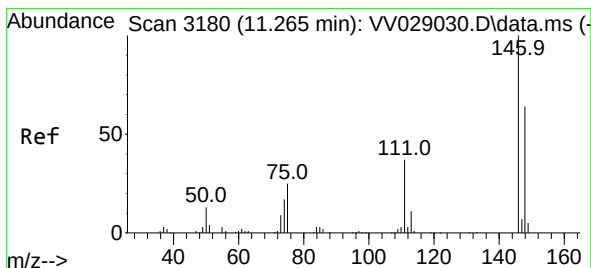
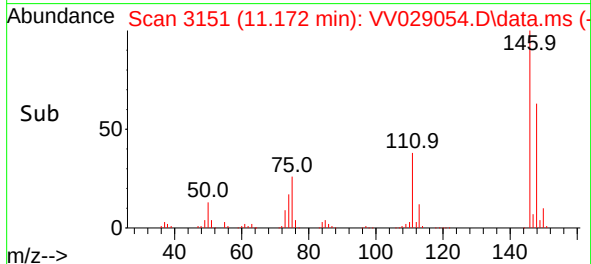
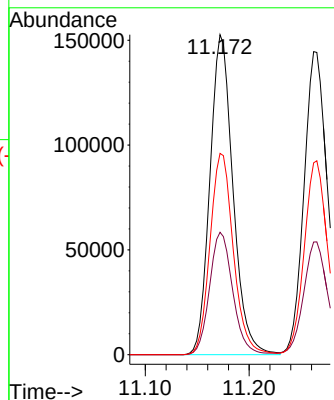
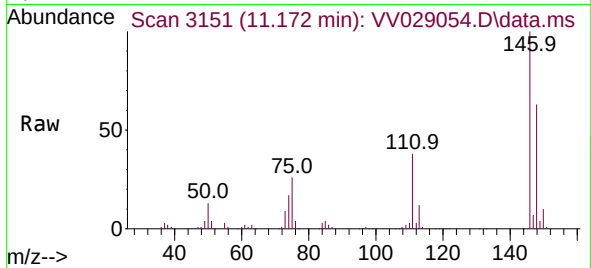




#64  
 1,3-Dichlorobenzene  
 Concen: 5.562 ug/L  
 RT: 11.172 min Scan# 3151  
 Delta R.T. 0.000 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

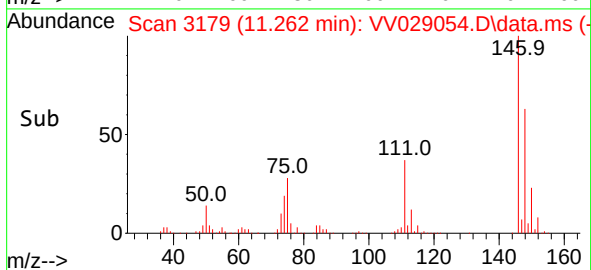
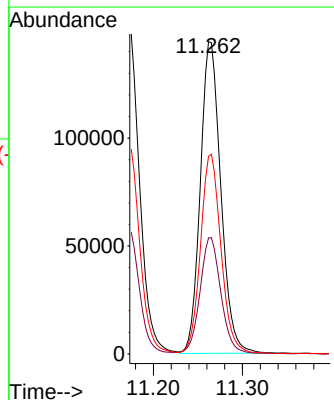
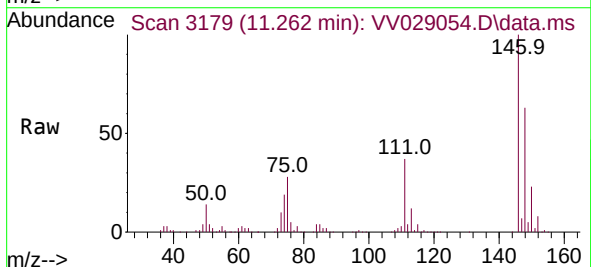
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005351

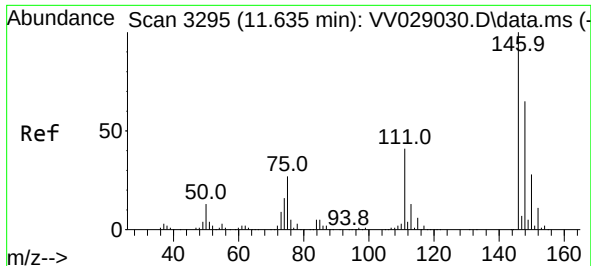
Tgt Ion:146 Resp: 235596  
 Ion Ratio Lower Upper  
 146 100  
 111 38.3 26.9 50.1  
 148 62.9 44.1 81.9



#65  
 1,4-Dichlorobenzene  
 Concen: 5.424 ug/L  
 RT: 11.262 min Scan# 3179  
 Delta R.T. -0.003 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

Tgt Ion:146 Resp: 230959  
 Ion Ratio Lower Upper  
 146 100  
 111 37.2 26.5 49.3  
 148 63.3 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 5.625 ug/L

RT: 11.635 min Scan# 3295

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005351

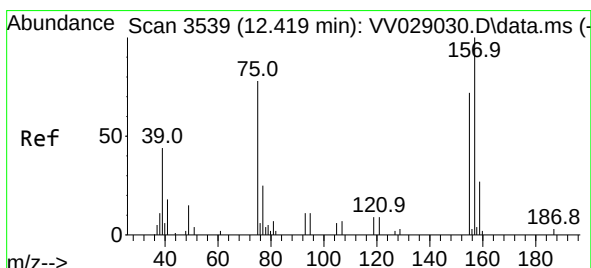
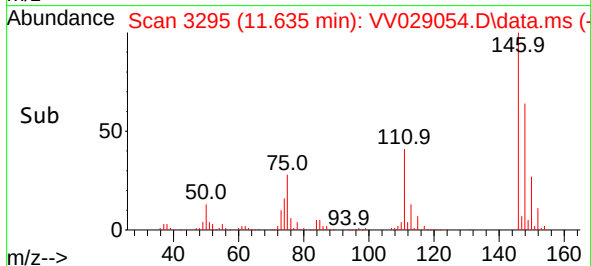
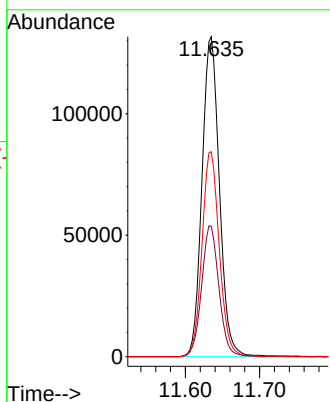
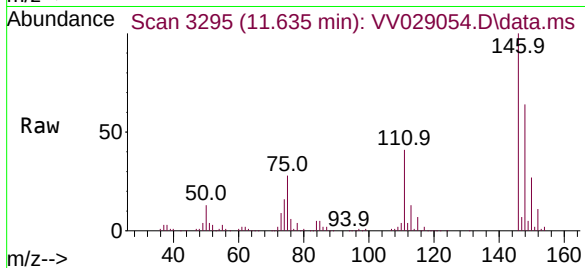
Tgt Ion:146 Resp: 214080

Ion Ratio Lower Upper

146 100

111 40.7 32.4 48.6

148 64.1 49.4 74.2



#68

1,2-Dibromo-3-chloropropane

Concen: 4.421 ug/L

RT: 12.419 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

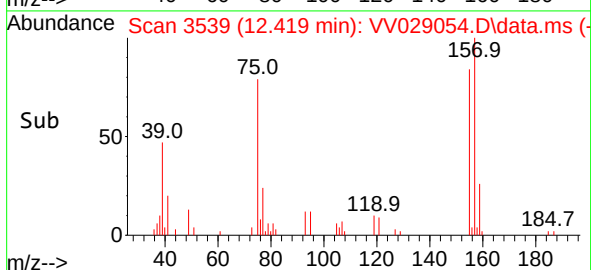
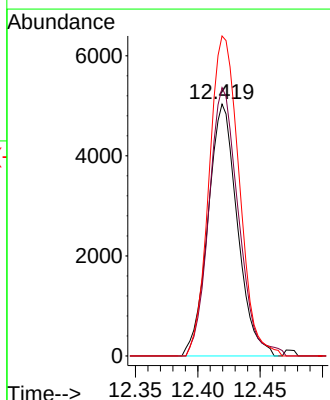
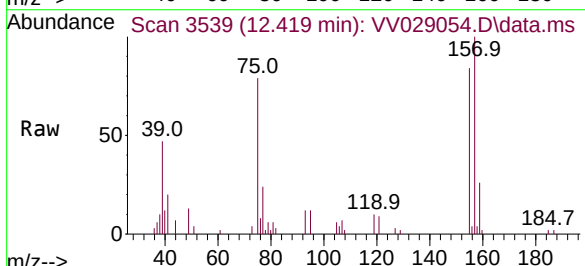
Tgt Ion: 75 Resp: 8256

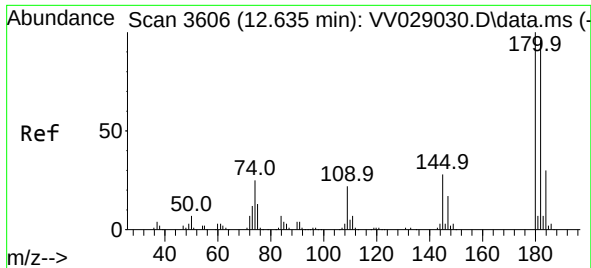
Ion Ratio Lower Upper

75 100

155 106.5 64.8 97.2#

157 127.1 86.3 129.5

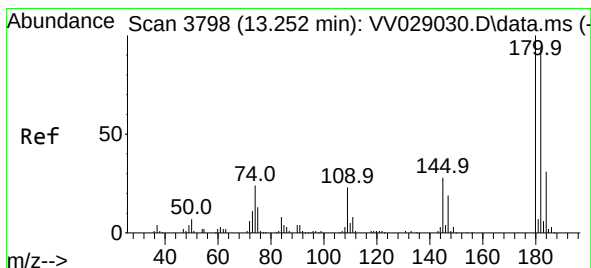
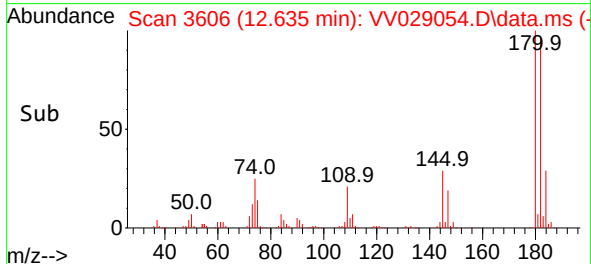
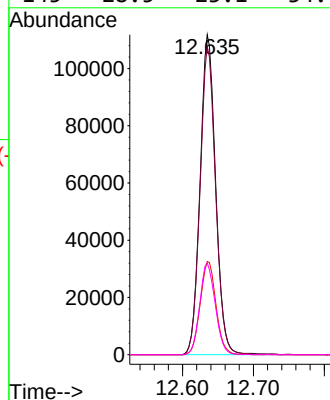
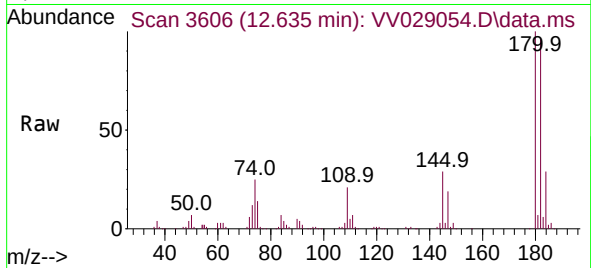




#69  
 1,3,5-Trichlorobenzene  
 Concen: 5.226 ug/L  
 RT: 12.635 min Scan# 3606  
 Delta R.T. 0.000 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

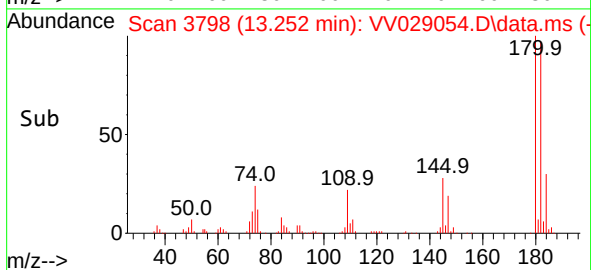
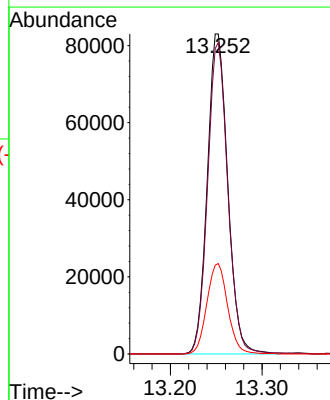
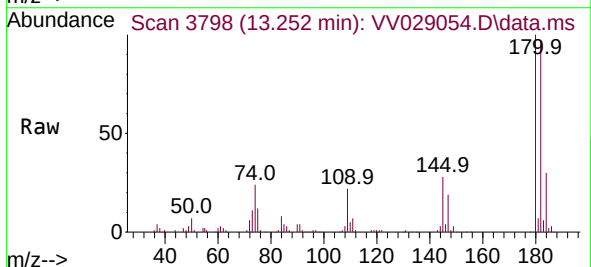
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005351

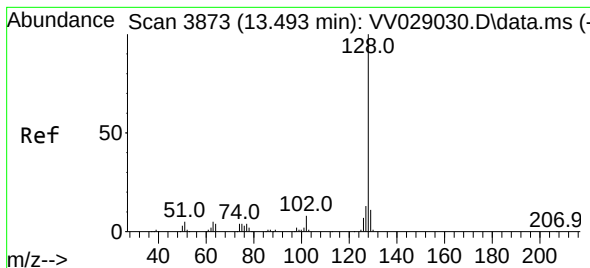
Tgt Ion:180 Resp: 170762  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 76.7 115.1  
 184 29.4 24.0 36.0  
 145 28.5 23.1 34.7



#70  
 1,2,4-trichlorobenzene  
 Concen: 5.215 ug/L  
 RT: 13.252 min Scan# 3798  
 Delta R.T. 0.000 min  
 Lab File: VV029054.D  
 Acq: 17 Nov 2022 06:43

Tgt Ion:180 Resp: 128901  
 Ion Ratio Lower Upper  
 180 100  
 182 95.7 74.3 111.5  
 145 28.6 23.7 35.5





#71

Naphthalene

Concen: 5.018 ug/L

RT: 13.493 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005351

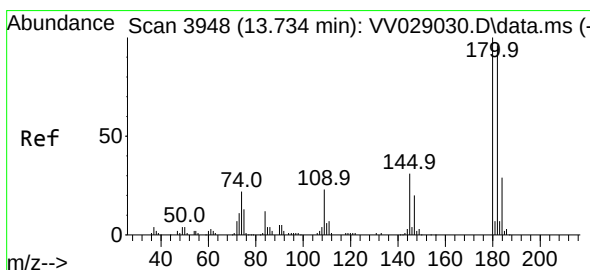
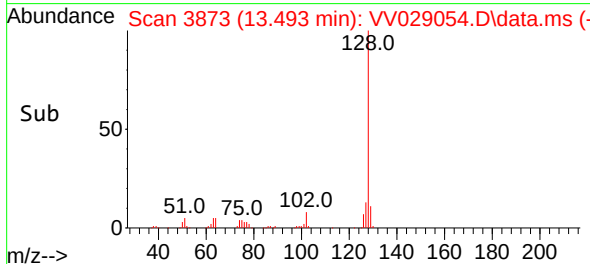
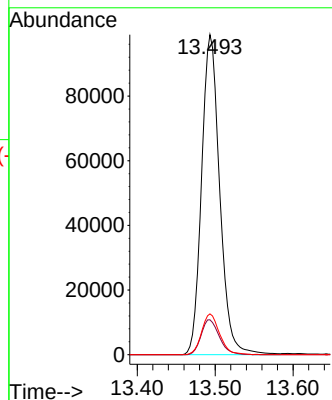
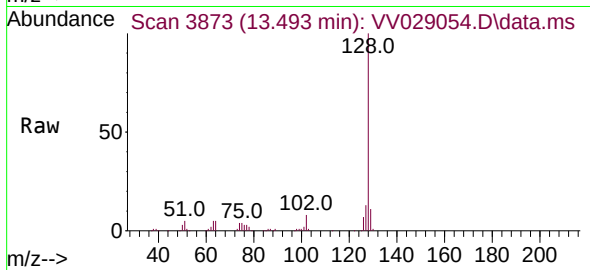
Tgt Ion:128 Resp: 160024

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

127 12.6 9.8 14.8



#72

1,2,3-Trichlorobenzene

Concen: 5.388 ug/L

RT: 13.731 min Scan# 3947

Delta R.T. -0.003 min

Lab File: VV029054.D

Acq: 17 Nov 2022 06:43

Tgt Ion:180 Resp: 112787

Ion Ratio Lower Upper

180 100

182 93.4 75.4 113.2

145 31.5 24.9 37.3

