

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW071023\  
 Data File : VW031656.D  
 Acq On : 10 Jul 2023 09:44  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050386

Quant Time: Jul 10 11:35:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM061423WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 07 02:34:55 2023  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) 1,4-Difluorobenzene        | 5.542     | 114   | 163739   | 50.000   | ug/L       | 0.00     |
| 28) Chlorobenzene-d5          | 8.789     | 117   | 169561   | 50.000   | ug/L       | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191    | 152   | 116034   | 50.000   | ug/L       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 4) Vinyl Chloride-d3          | 1.281     | 65    | 70637    | 64.820   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 135 | Recovery | = 129.640% |          |
| 7) Chloroethane-d5            | 1.532     | 69    | 53472    | 56.237   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 130 | Recovery | = 112.480% |          |
| 11) 1,1-Dichloroethene-d2     | 2.063     | 65    | 32593    | 58.033   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 125 | Recovery | = 116.060% |          |
| 21) 2-Butanone-d5             | 3.796     | 46    | 81812    | 92.716   | ug/L       | 0.00     |
| Spiked Amount                 | 100.000   | Range | 40 - 130 | Recovery | = 92.720%  |          |
| 24) Chloroform-d              | 4.259     | 84    | 138481   | 50.741   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 101.480% |          |
| 26) 1,2-Dichloroethane-d4     | 4.947     | 65    | 88360    | 51.747   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 103.500% |          |
| 32) Benzene-d6                | 4.966     | 84    | 232839   | 48.785   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 97.560%  |          |
| 36) 1,2-Dichloropropane-d6    | 5.995     | 67    | 80020    | 47.304   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 120 | Recovery | = 94.600%  |          |
| 41) Toluene-d8                | 7.249     | 98    | 224616   | 51.285   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 80 - 120 | Recovery | = 102.560% |          |
| 43) trans-1,3-Dichloroprop... | 7.558     | 79    | 36937    | 44.791   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 125 | Recovery | = 89.580%  |          |
| 47) 2-Hexanone-d5             | 8.030     | 63    | 53450    | 80.026   | ug/L       | 0.00     |
| Spiked Amount                 | 100.000   | Range | 45 - 130 | Recovery | = 80.030%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159    | 84    | 112616   | 44.105   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 120 | Recovery | = 88.220%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.567    | 152   | 90623    | 40.972   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 80 - 120 | Recovery | = 81.940%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.108     | 85    | 79377    | 45.703   | ug/L       | 98       |
| 3) Chloromethane              | 1.217     | 50    | 81429    | 49.686   | ug/L       | 99       |
| 5) Vinyl chloride             | 1.285     | 62    | 81673    | 50.273   | ug/L       | 99       |
| 6) Bromomethane               | 1.490     | 94    | 47623    | 44.976   | ug/L       | 99       |
| 8) Chloroethane               | 1.552     | 64    | 46365    | 44.187   | ug/L       | 94       |
| 9) Trichlorofluoromethane     | 1.716     | 101   | 129388   | 47.872   | ug/L       | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.072     | 101   | 75878    | 52.387   | ug/L       | 96       |
| 12) 1,1-Dichloroethene        | 2.072     | 96    | 60307    | 49.777   | ug/L       | 90       |
| 13) Acetone                   | 2.121     | 43    | 81625    | 93.746   | ug/L       | 97       |
| 14) Carbon disulfide          | 2.246     | 76    | 171269   | 46.734   | ug/L       | 99       |
| 15) Methyl Acetate            | 2.378     | 43    | 80035    | 54.596   | ug/L       | 96       |
| 16) Methylene chloride        | 2.452     | 84    | 69104    | 45.495   | ug/L       | 97       |
| 17) trans-1,2-Dichloroethene  | 2.699     | 96    | 58547    | 46.295   | ug/L       | 92       |
| 18) Methyl tert-butyl Ether   | 2.709     | 73    | 200239   | 47.452   | ug/L       | 96       |
| 19) 1,1-Dichloroethane        | 3.117     | 63    | 132429   | 48.518   | ug/L       | 99       |
| 20) cis-1,2-Dichloroethene    | 3.822     | 96    | 64497    | 47.192   | ug/L       | 99       |
| 22) 2-Butanone                | 3.876     | 43    | 108603   | 99.845   | ug/L       | 96       |
| 23) Bromochloromethane        | 4.156     | 128   | 35265    | 47.735   | ug/L       | 93       |
| 25) Chloroform                | 4.285     | 83    | 142864   | 50.350   | ug/L       | 98       |

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 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

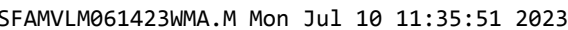
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050386

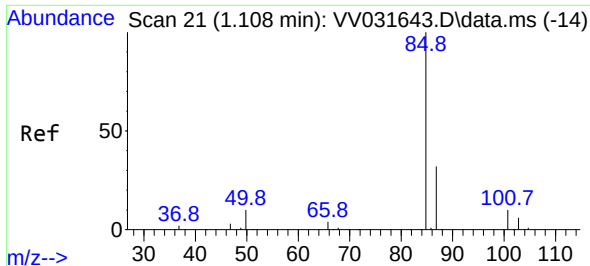
Quant Time: Jul 10 11:35:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM061423WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 07 02:34:55 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.047  | 62   | 115384   | 52.690  | ug/L   | 99       |
| 29) Cyclohexane               | 4.593  | 56   | 98199    | 44.514  | ug/L   | 95       |
| 30) 1,1,1-Trichloroethane     | 4.519  | 97   | 131653   | 48.427  | ug/L   | 99       |
| 31) Carbon tetrachloride      | 4.744  | 117  | 117352   | 48.719  | ug/L   | 99       |
| 33) Benzene                   | 5.018  | 78   | 268647   | 47.588  | ug/L   | 100      |
| 34) Trichloroethene           | 5.838  | 95   | 72005    | 47.732  | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.059  | 83   | 97710    | 43.959  | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 80221    | 48.392  | ug/L   | 99       |
| 38) Bromodichloromethane      | 6.439  | 83   | 111266   | 49.657  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 6.960  | 75   | 106065   | 43.103  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.165  | 43   | 217787   | 111.886 | ug/L   | 96       |
| 42) Toluene                   | 7.320  | 91   | 288690   | 49.321  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 115695   | 48.279  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 76988    | 49.163  | ug/L   | 97       |
| 46) Tetrachloroethene         | 7.911  | 164  | 53350    | 45.060  | ug/L   | 95       |
| 48) 2-Hexanone                | 8.082  | 43   | 175302   | 112.764 | ug/L   | 92       |
| 49) Dibromochloromethane      | 8.181  | 129  | 85393    | 49.064  | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 79636    | 47.760  | ug/L   | 99       |
| 51) Chlorobenzene             | 8.818  | 112  | 175993   | 45.398  | ug/L   | 99       |
| 52) Ethylbenzene              | 8.953  | 91   | 307219   | 47.038  | ug/L   | 98       |
| 53) m,p-Xylene                | 9.079  | 106  | 114875   | 48.028  | ug/L   | 98       |
| 54) o-Xylene                  | 9.484  | 106  | 106032   | 46.715  | ug/L   | 99       |
| 55) Styrene                   | 9.500  | 104  | 211049   | 52.064  | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.181 | 83   | 122981   | 48.064  | ug/L   | 96       |
| 59) Bromoform                 | 9.670  | 173  | 67604    | 47.002  | ug/L # | 99       |
| 60) Isopropylbenzene          | 9.873  | 105  | 299584   | 40.498  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 100908   | 44.029  | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 243165   | 39.772  | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 230515   | 40.465  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.123 | 146  | 162694   | 43.868  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.214 | 146  | 174683   | 44.201  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 164731   | 44.008  | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 32604    | 47.931  | ug/L   | 89       |
| 69) 1,3,5-Trichlorobenzene    | 12.586 | 180  | 130297   | 46.107  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 106196   | 42.872  | ug/L   | 99       |
| 71) Naphthalene               | 13.445 | 128  | 272668   | 43.458  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 115609   | 44.913  | ug/L   | 96       |

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

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QLast Update : Fri Jul 07 02:34:55 2023  
Response via : Initial Calibration

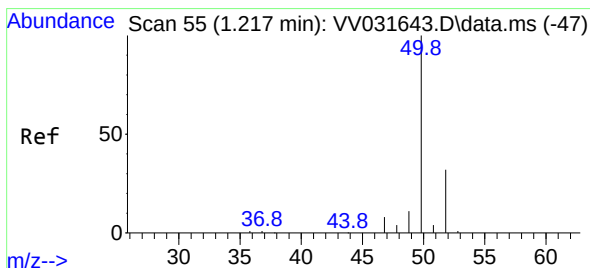
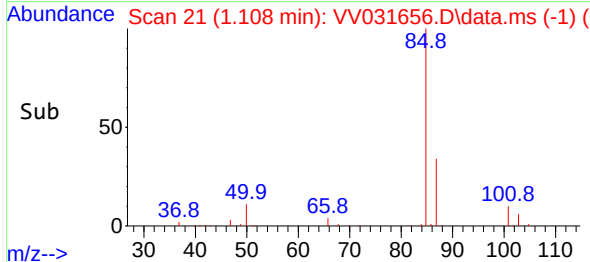
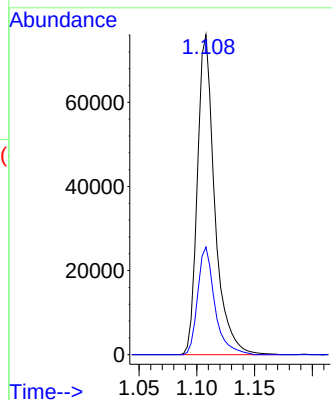
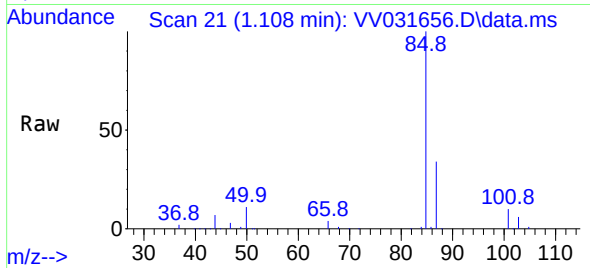




#2  
Dichlorodifluoromethane  
Concen: 45.703 ug/L  
RT: 1.108 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

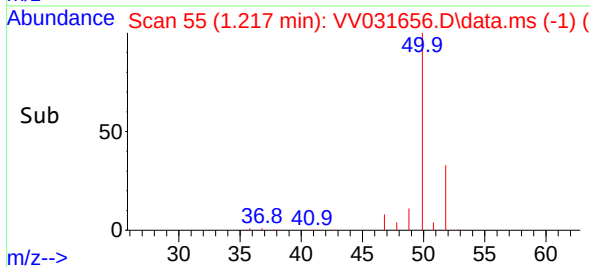
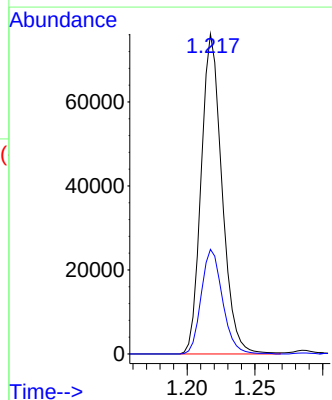
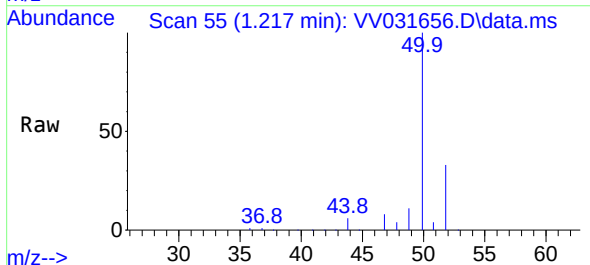
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

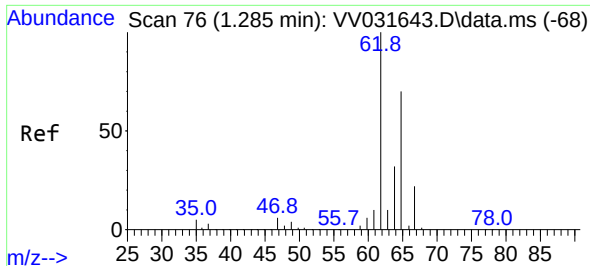
Tgt Ion: 85 Resp: 79377  
Ion Ratio Lower Upper  
85 100  
87 33.2 25.5 38.3



#3  
Chloromethane  
Concen: 49.686 ug/L  
RT: 1.217 min Scan# 55  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 50 Resp: 81429  
Ion Ratio Lower Upper  
50 100  
52 32.7 22.3 41.5

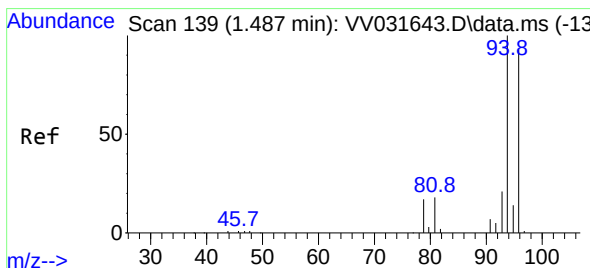
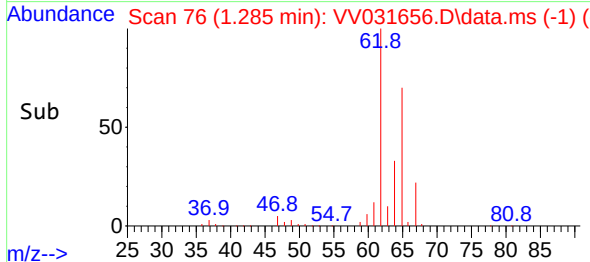
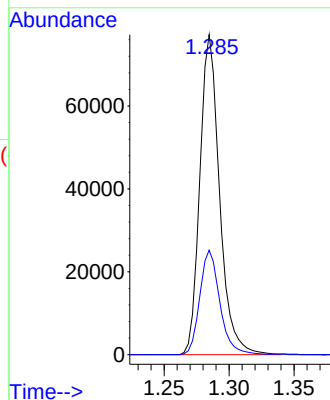
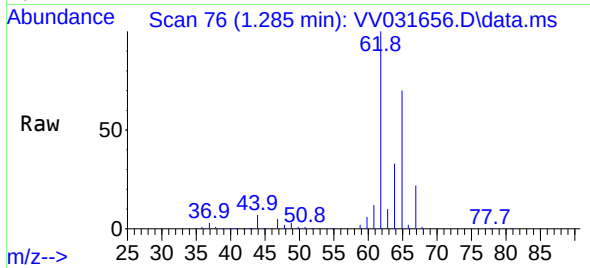




#5  
 Vinyl chloride  
 Concen: 50.273 ug/L  
 RT: 1.285 min Scan# 70  
 Delta R.T. 0.000 min  
 Lab File: VV031656.D  
 Acq: 10 Jul 2023 09:44

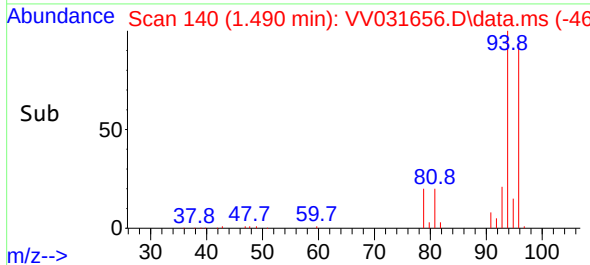
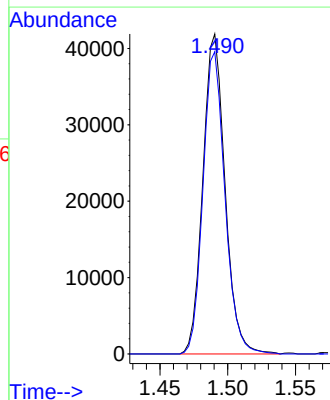
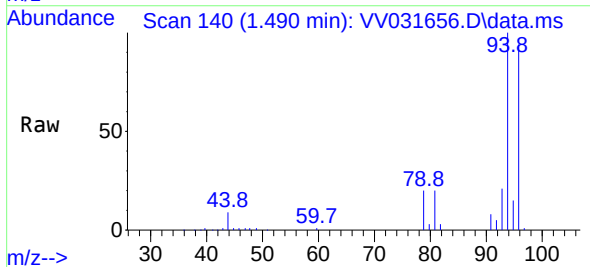
Instrument :  
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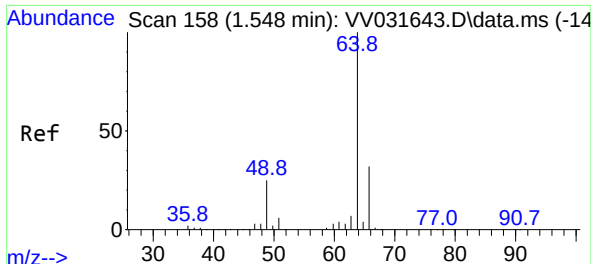
Tgt Ion: 62 Resp: 81673  
 Ion Ratio Lower Upper  
 62 100  
 64 32.7 23.4 43.4



#6  
 Bromomethane  
 Concen: 44.976 ug/L  
 RT: 1.490 min Scan# 140  
 Delta R.T. 0.003 min  
 Lab File: VV031656.D  
 Acq: 10 Jul 2023 09:44

Tgt Ion: 94 Resp: 47623  
 Ion Ratio Lower Upper  
 94 100  
 96 94.4 65.4 121.4

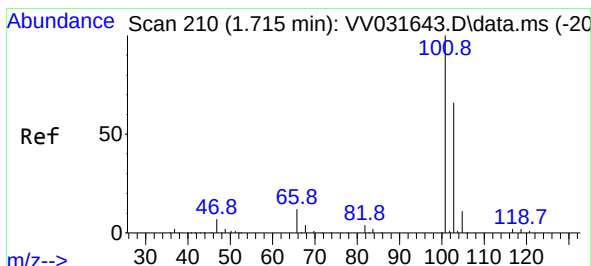
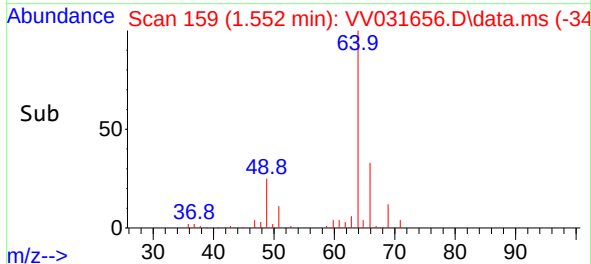
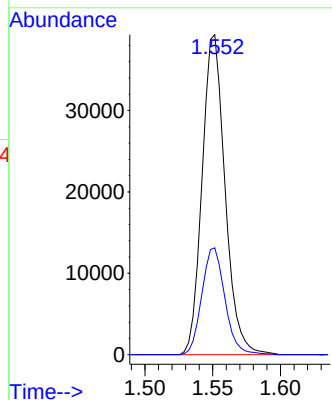
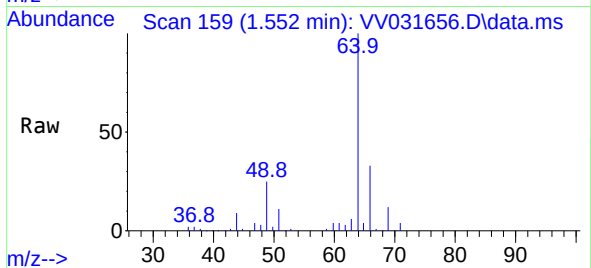




#8  
Chloroethane  
Concen: 44.187 ug/L  
RT: 1.552 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

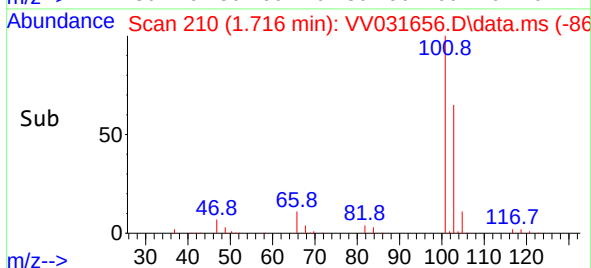
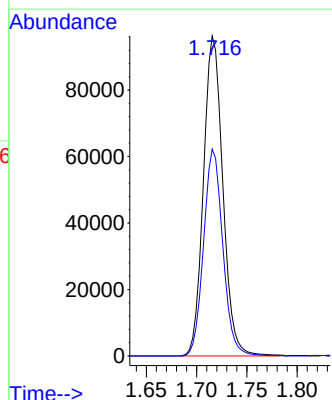
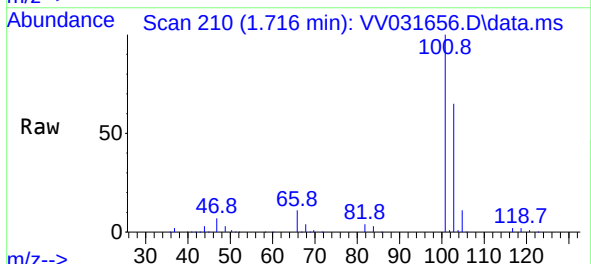
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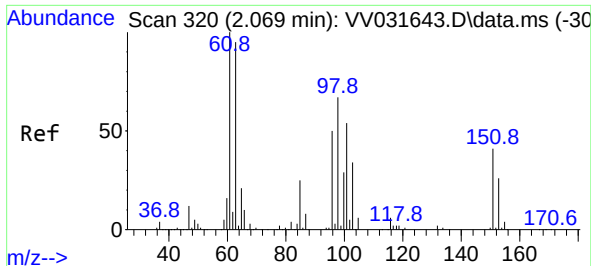
Tgt Ion: 64 Resp: 46365  
Ion Ratio Lower Upper  
64 100  
66 33.4 21.0 39.0



#9  
Trichlorofluoromethane  
Concen: 47.872 ug/L  
RT: 1.716 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion:101 Resp: 129388  
Ion Ratio Lower Upper  
101 100  
103 63.9 50.9 76.3

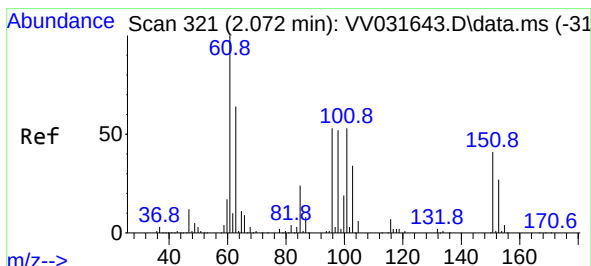
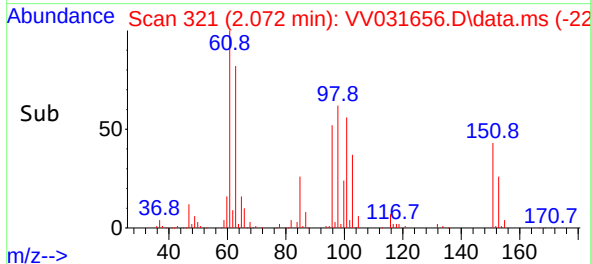
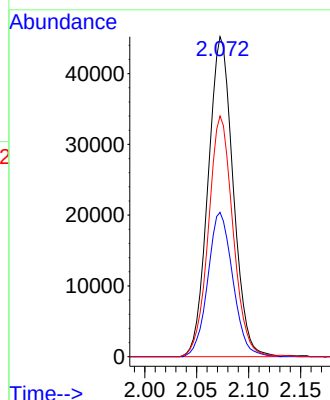
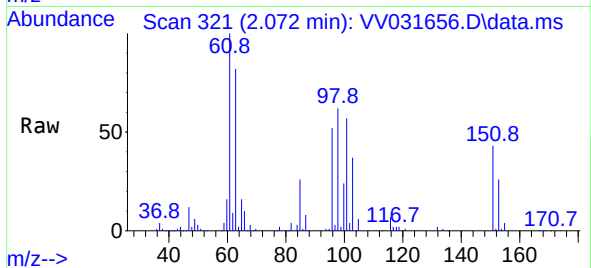




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 52.387 ug/L  
RT: 2.072 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

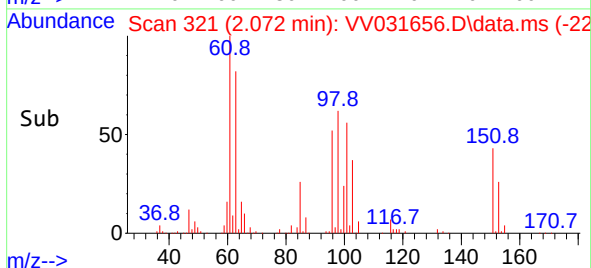
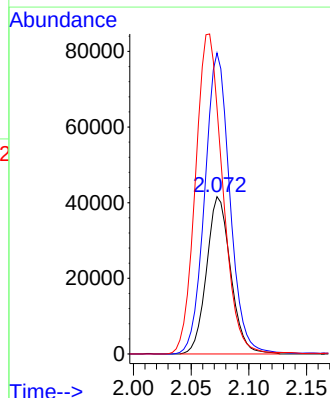
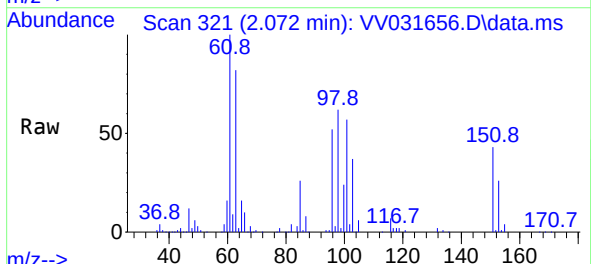
Instrument :  
MSVOA\_V  
ClientSampleId :  
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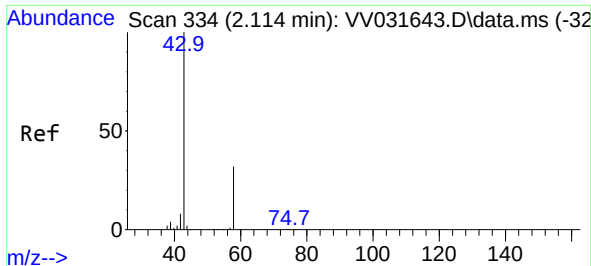
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Ion Ratio Lower Upper  
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151 73.8 62.3 93.5



#12  
1,1-Dichloroethene  
Concen: 49.777 ug/L  
RT: 2.072 min Scan# 321  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 96 Resp: 60307  
Ion Ratio Lower Upper  
96 100  
61 191.3 128.9 239.5  
63 156.5 95.3 177.1





#13

Acetone

Concen: 93.746 ug/L

RT: 2.121 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

Instrument :

MSVOA\_V

ClientSampleId :

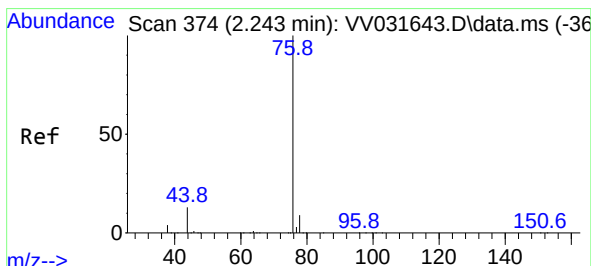
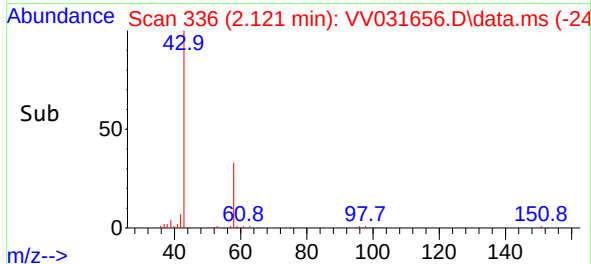
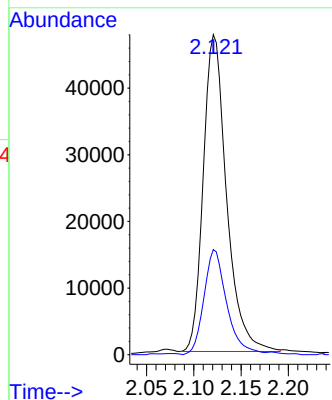
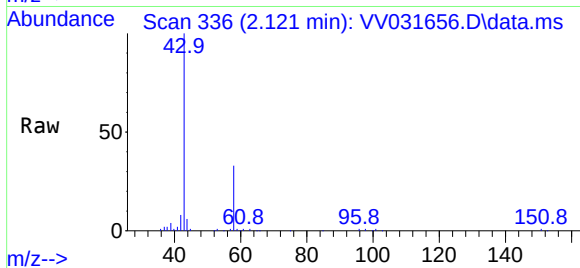
VSTD050386

Tgt Ion: 43 Resp: 81625

Ion Ratio Lower Upper

43 100

58 32.3 0.0 68.6



#14

Carbon disulfide

Concen: 46.734 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.003 min

Lab File: VV031656.D

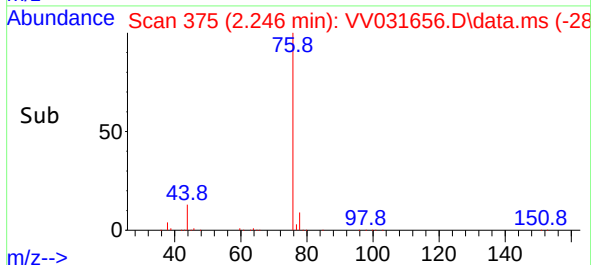
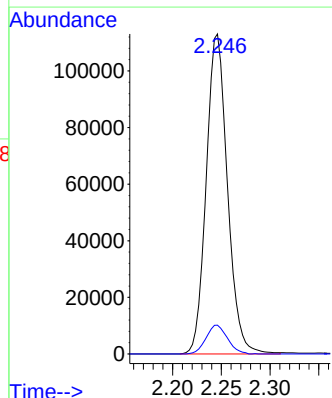
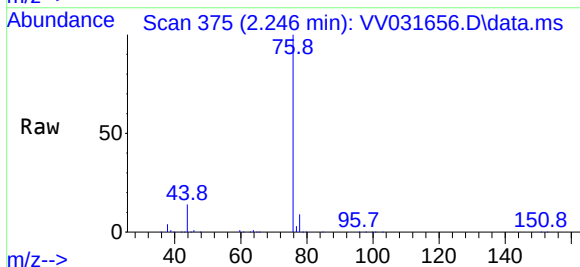
Acq: 10 Jul 2023 09:44

Tgt Ion: 76 Resp: 171269

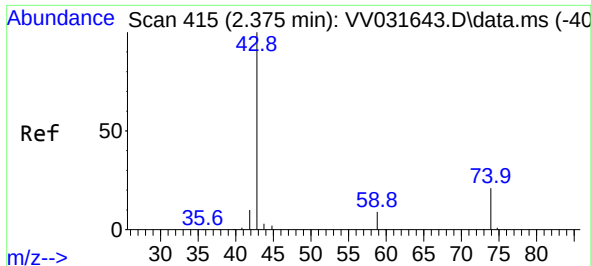
Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7



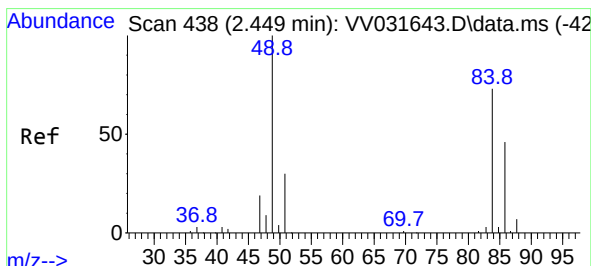
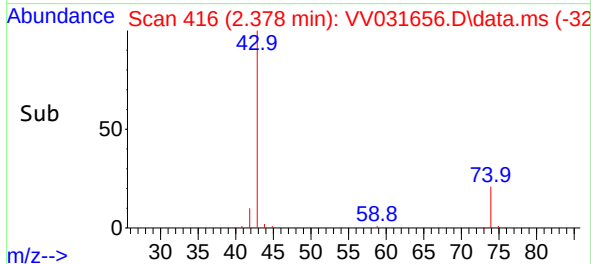
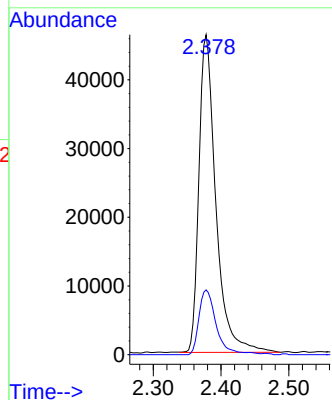
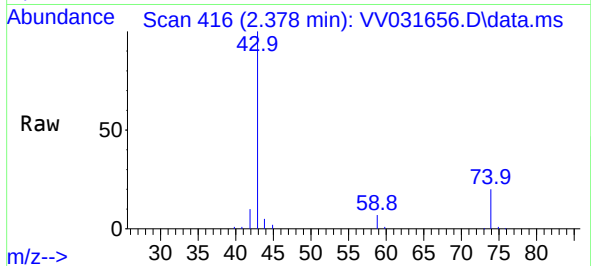




#15  
Methyl Acetate  
Concen: 54.596 ug/L  
RT: 2.378 min Scan# 415  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

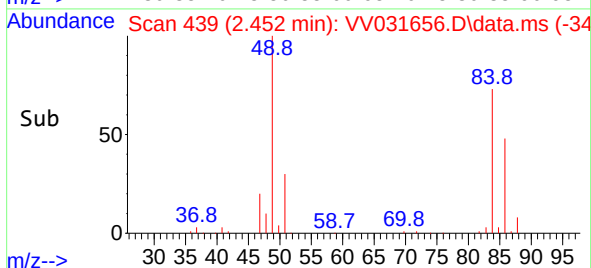
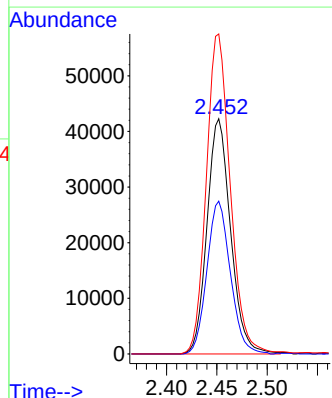
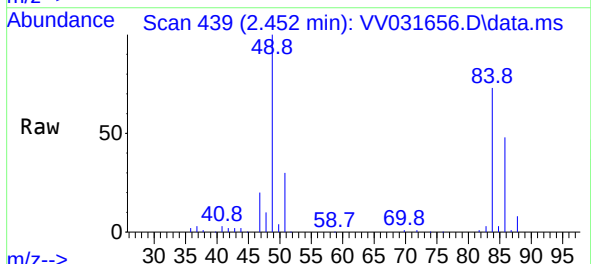
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

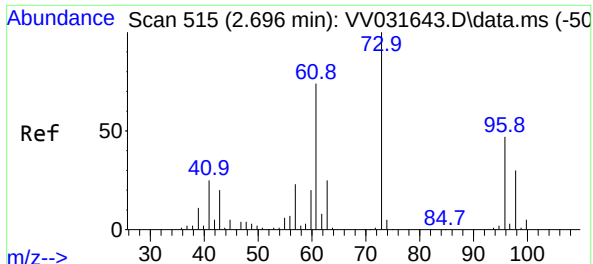
Tgt Ion: 43 Resp: 80035  
Ion Ratio Lower Upper  
43 100  
74 20.5 17.8 26.6



#16  
Methylene chloride  
Concen: 45.495 ug/L  
RT: 2.452 min Scan# 439  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 84 Resp: 69104  
Ion Ratio Lower Upper  
84 100  
86 65.0 45.8 85.0  
49 136.1 92.1 171.1

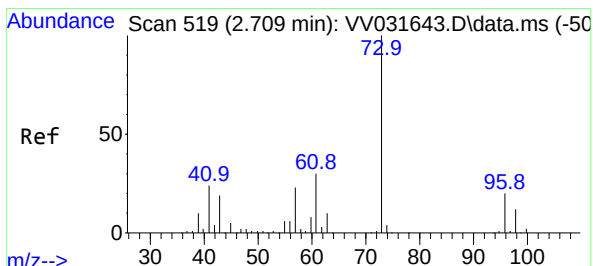
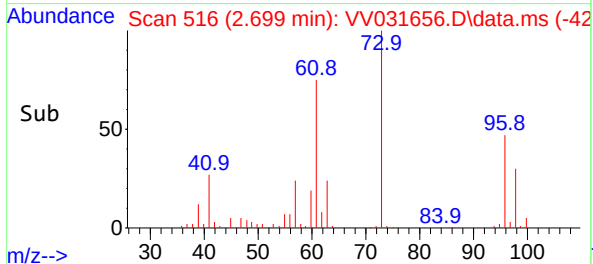
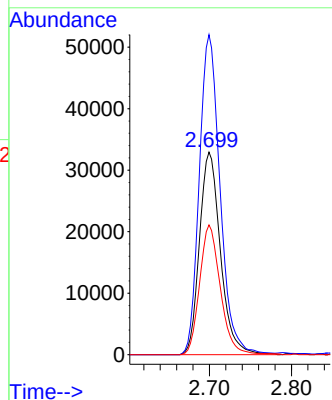
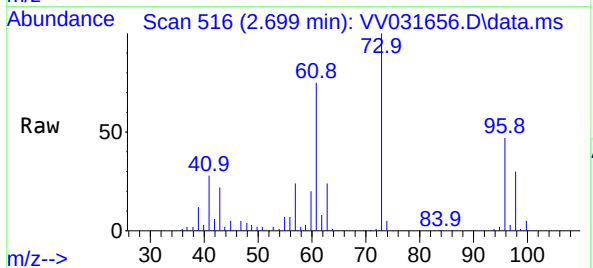




#17  
trans-1,2-Dichloroethene  
Concen: 46.295 ug/L  
RT: 2.699 min Scan# 515  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

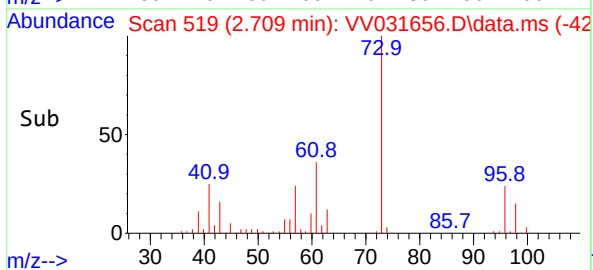
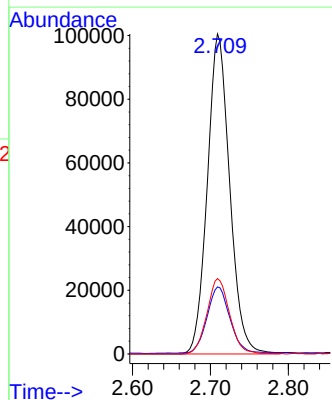
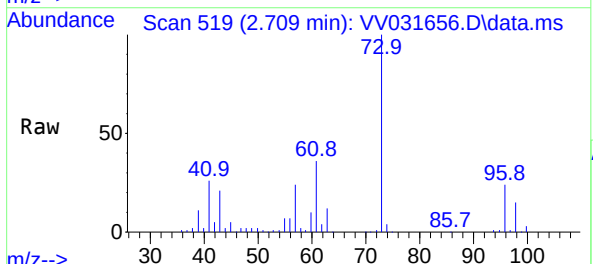
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

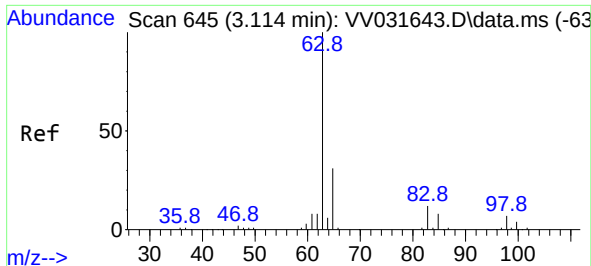
Tgt Ion: 96 Resp: 58547  
Ion Ratio Lower Upper  
96 100  
61 157.9 102.5 190.3  
98 66.1 44.1 81.9



#18  
Methyl tert-butyl Ether  
Concen: 47.452 ug/L  
RT: 2.709 min Scan# 519  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 73 Resp: 200239  
Ion Ratio Lower Upper  
73 100  
43 21.2 15.0 22.4  
57 23.7 18.2 27.4





#19

1,1-Dichloroethane

Concen: 48.518 ug/L

RT: 3.117 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050386

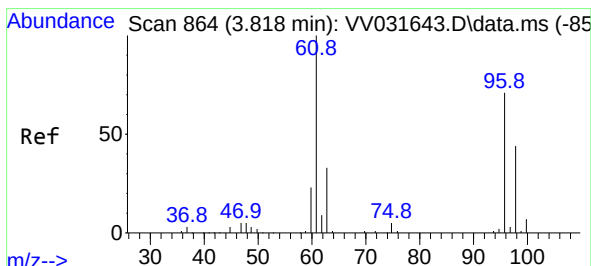
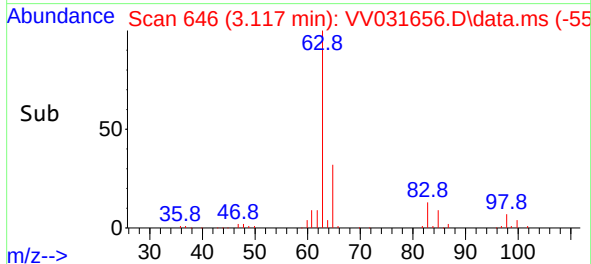
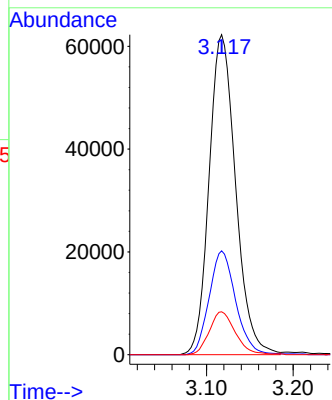
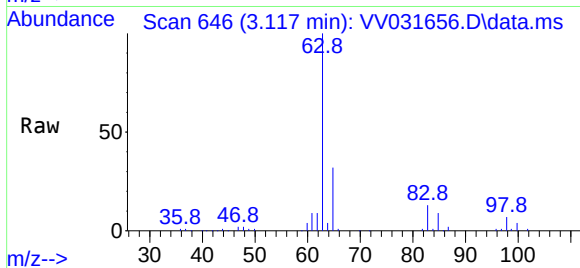
Tgt Ion: 63 Resp: 132429

Ion Ratio Lower Upper

63 100

65 32.4 22.5 41.7

83 13.4 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 47.192 ug/L

RT: 3.822 min Scan# 865

Delta R.T. 0.003 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

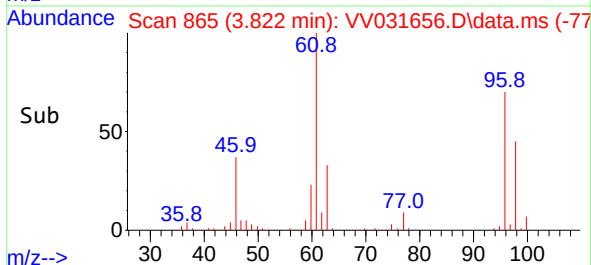
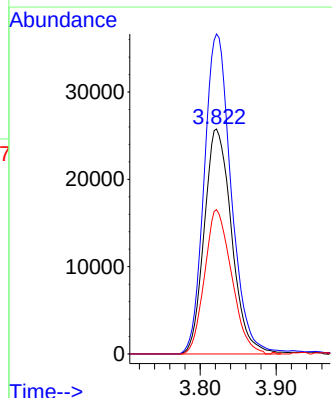
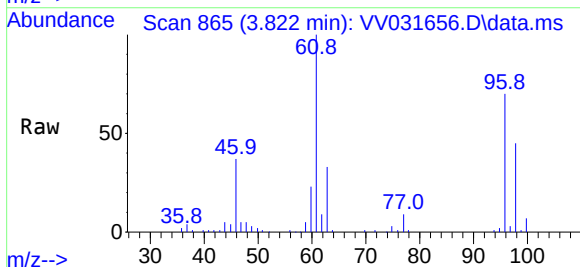
Tgt Ion: 96 Resp: 64497

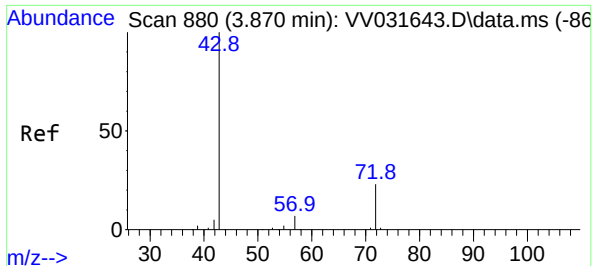
Ion Ratio Lower Upper

96 100

61 142.3 98.6 183.0

98 64.2 45.7 84.9

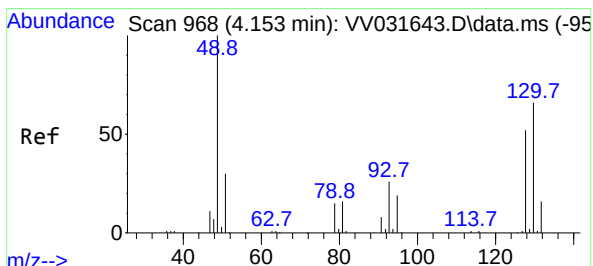
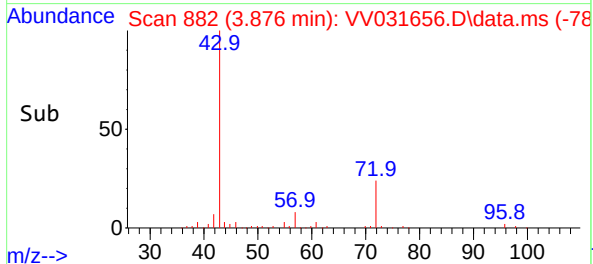
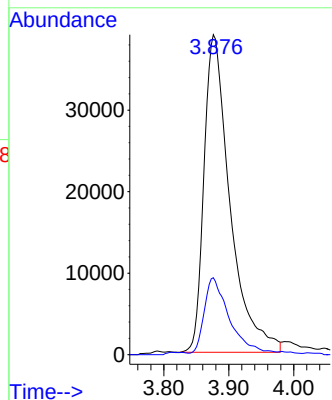
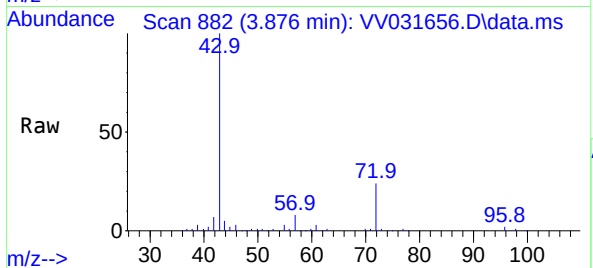




#22  
2-Butanone  
Concen: 99.845 ug/L  
RT: 3.876 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

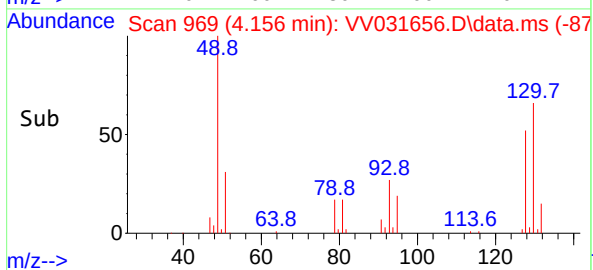
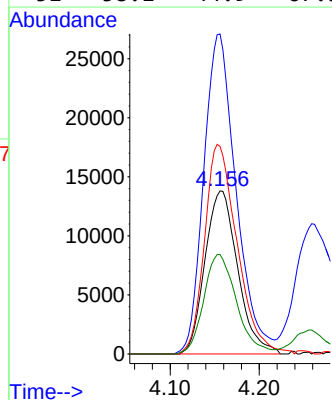
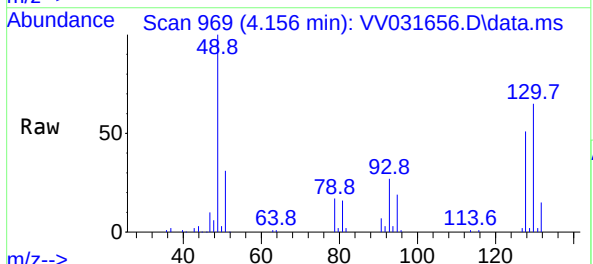
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

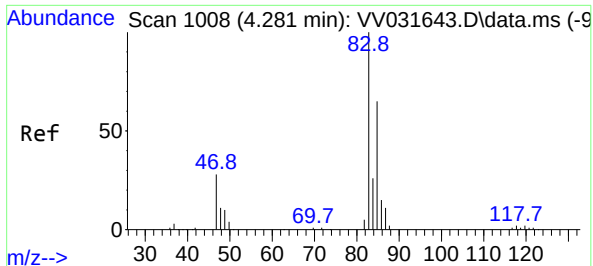
Tgt Ion: 43 Resp: 108603  
Ion Ratio Lower Upper  
43 100  
72 22.5 12.2 36.4



#23  
Bromochloromethane  
Concen: 47.735 ug/L  
RT: 4.156 min Scan# 969  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion:128 Resp: 35265  
Ion Ratio Lower Upper  
128 100  
49 187.0 120.6 224.0  
130 121.3 88.1 163.7  
51 58.1 44.9 67.3





#25

Chloroform

Concen: 50.350 ug/L

RT: 4.285 min Scan# 1008

Delta R.T. 0.003 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

Instrument :

MSVOA\_V

ClientSampleId :

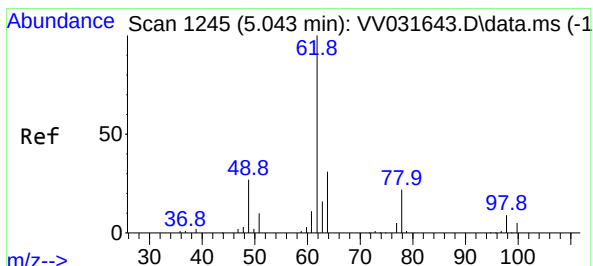
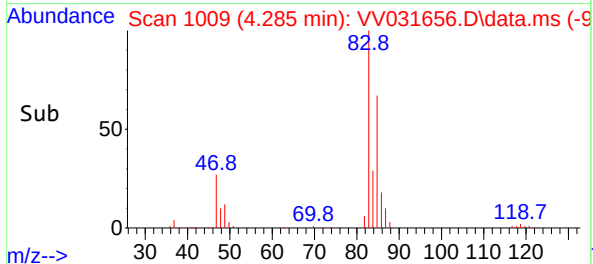
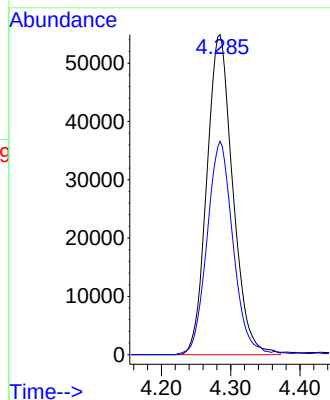
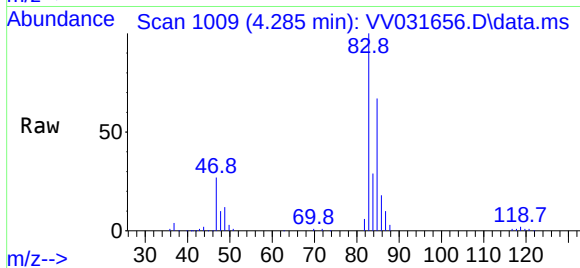
VSTD050386

Tgt Ion: 83 Resp: 142864

Ion Ratio Lower Upper

83 100

85 66.6 45.3 84.1



#27

1,2-Dichloroethane

Concen: 52.690 ug/L

RT: 5.047 min Scan# 1246

Delta R.T. 0.003 min

Lab File: VV031656.D

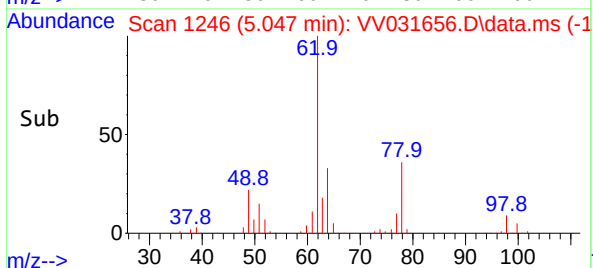
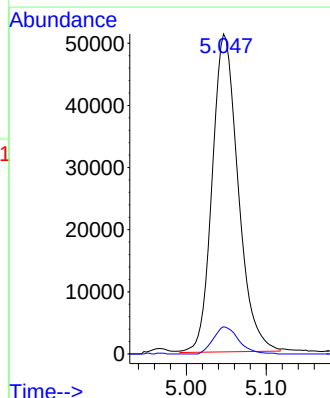
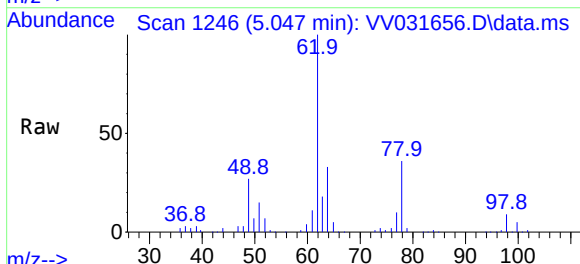
Acq: 10 Jul 2023 09:44

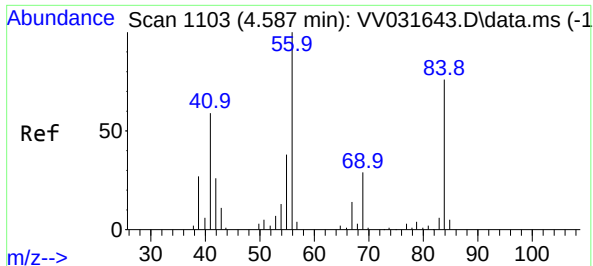
Tgt Ion: 62 Resp: 115384

Ion Ratio Lower Upper

62 100

98 8.5 6.6 9.8

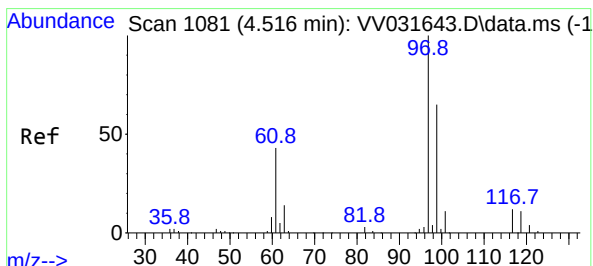
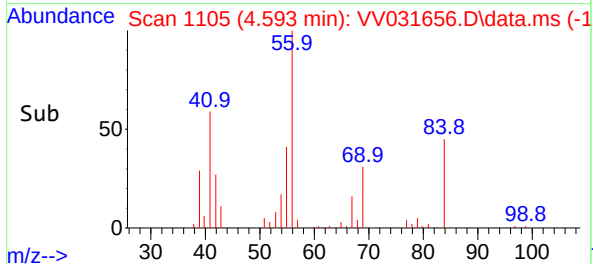
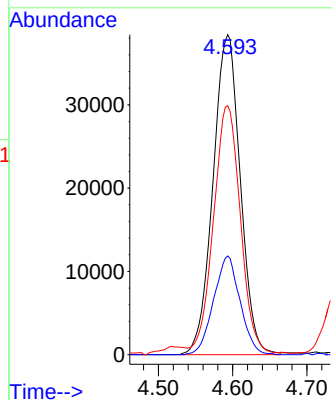
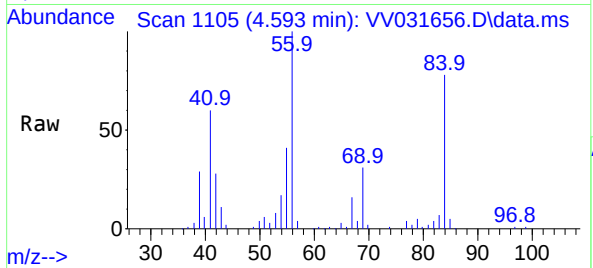




#29  
Cyclohexane  
Concen: 44.514 ug/L  
RT: 4.593 min Scan# 1105  
Delta R.T. 0.006 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

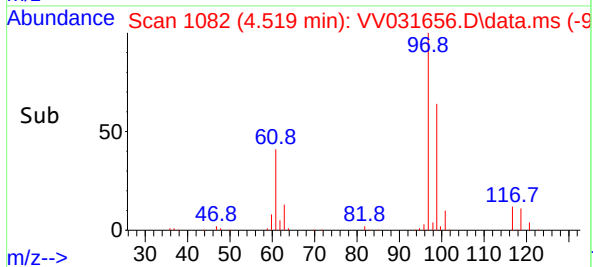
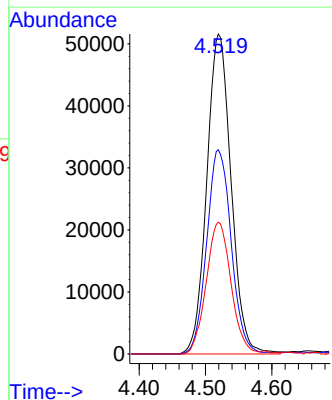
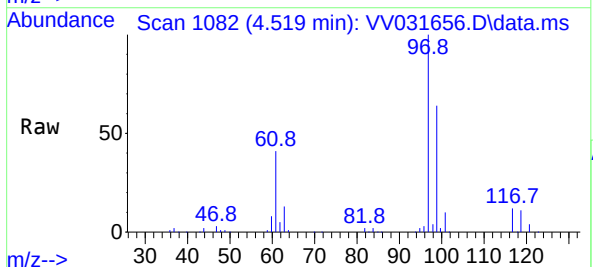
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

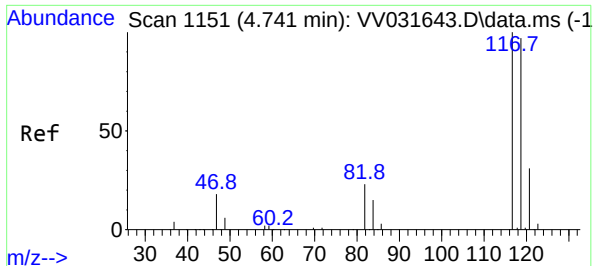
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 56    | Resp: | 98199 |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 29.8  | 24.3  | 36.5  |
| 84        | 75.6  | 65.0  | 97.6  |



#30  
1,1,1-Trichloroethane  
Concen: 48.427 ug/L  
RT: 4.519 min Scan# 1082  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 131653 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.3  | 51.8  | 77.6   |
| 61        | 41.9  | 33.0  | 49.6   |

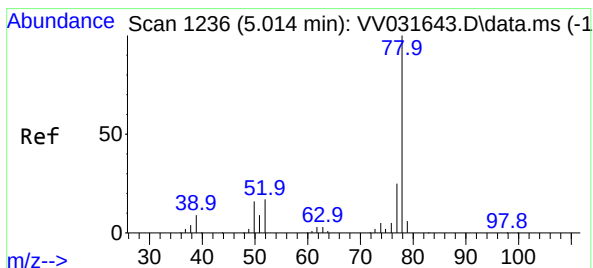
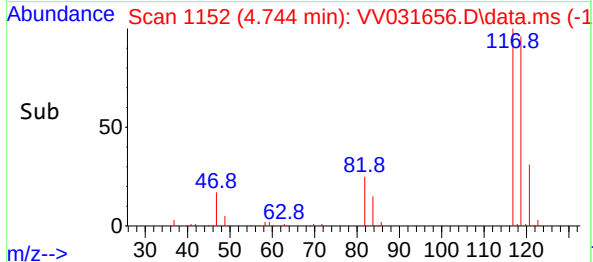
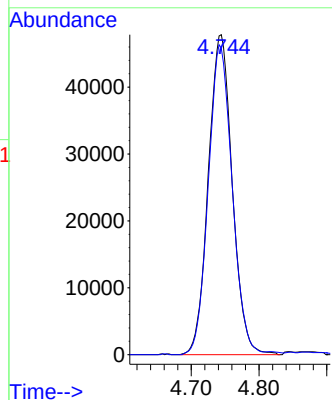
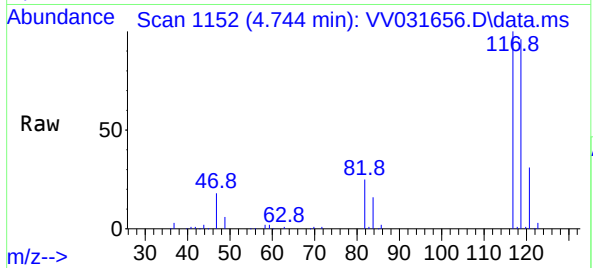




#31  
Carbon tetrachloride  
Concen: 48.719 ug/L  
RT: 4.744 min Scan# 1151  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

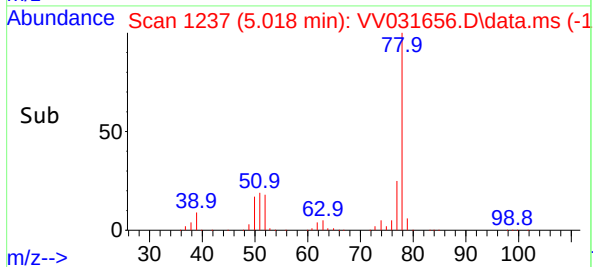
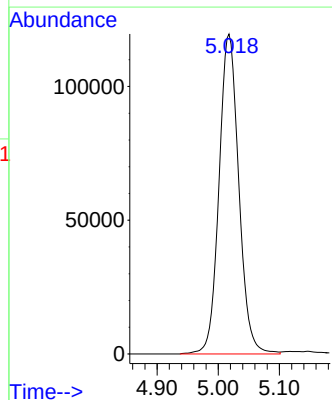
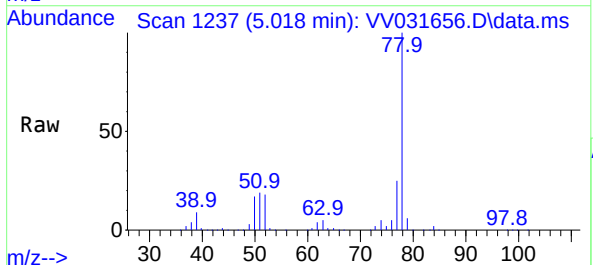
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

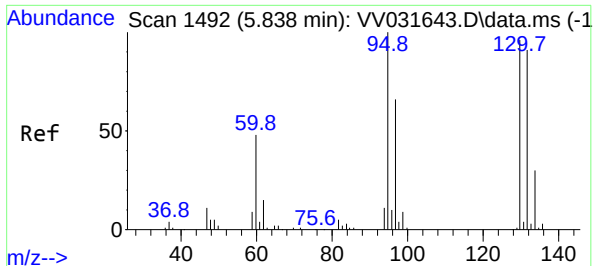
Tgt Ion:117 Resp: 117352  
Ion Ratio Lower Upper  
117 100  
119 96.4 76.2 114.4



#33  
Benzene  
Concen: 47.588 ug/L  
RT: 5.018 min Scan# 1237  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 78 Resp: 268647

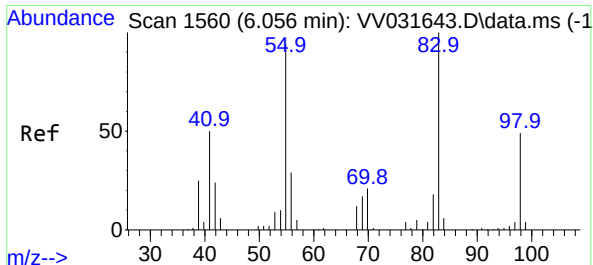
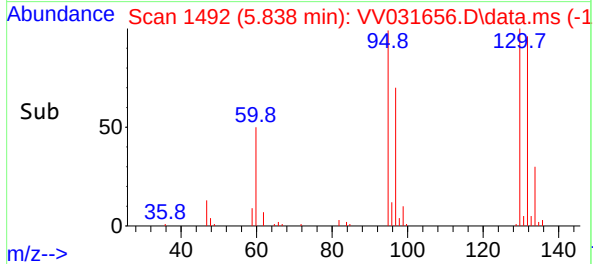
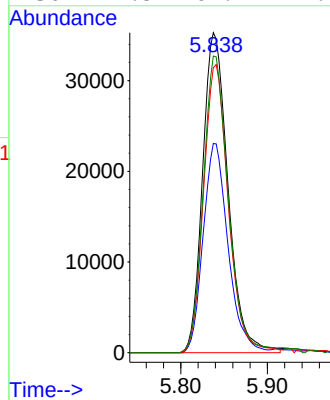
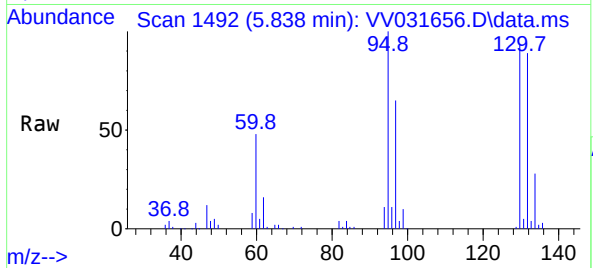




#34  
Trichloroethene  
Concen: 47.732 ug/L  
RT: 5.838 min Scan# 1492  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

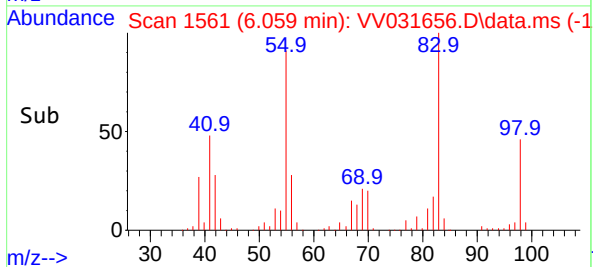
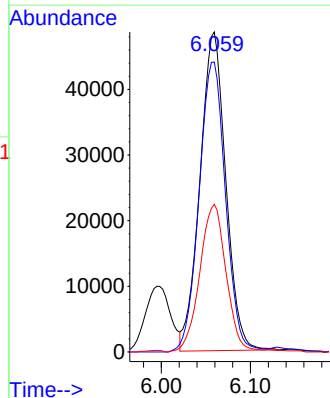
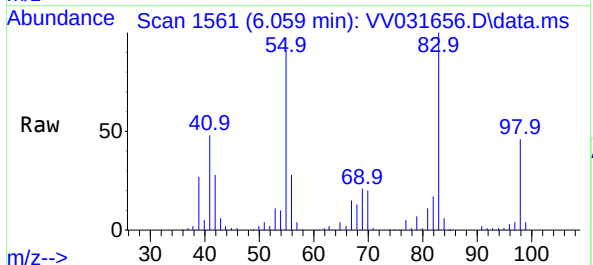
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

Tgt Ion: 95 Resp: 72005  
Ion Ratio Lower Upper  
95 100  
97 65.4 46.8 86.8  
132 93.4 66.4 123.2  
130 97.5 69.7 129.4

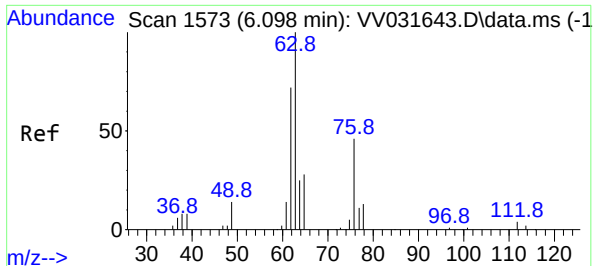


#35  
Methylcyclohexane  
Concen: 43.959 ug/L  
RT: 6.059 min Scan# 1561  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 83 Resp: 97710  
Ion Ratio Lower Upper  
83 100  
55 93.2 68.7 103.1  
98 47.2 37.0 55.4



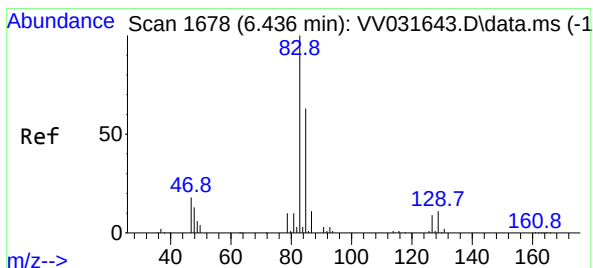
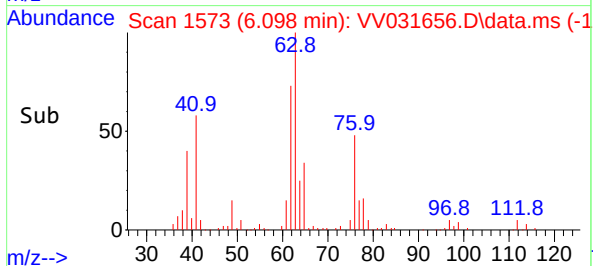
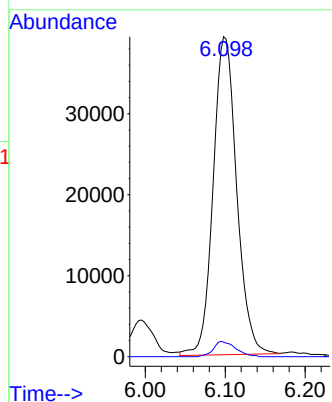
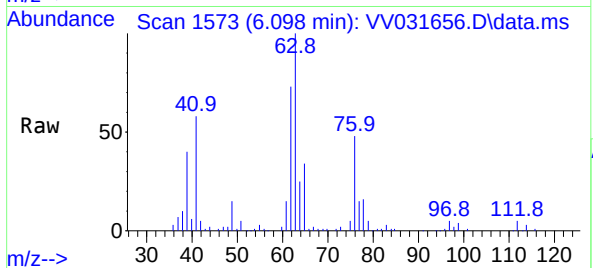




#37  
1,2-Dichloropropane  
Concen: 48.392 ug/L  
RT: 6.098 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

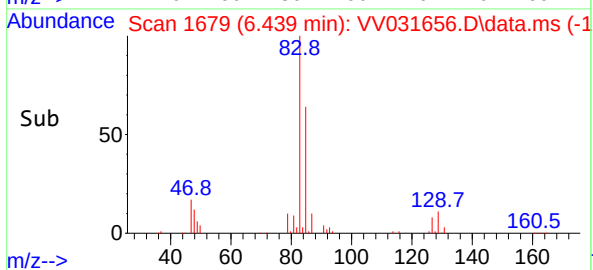
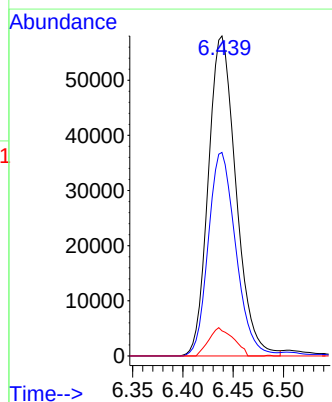
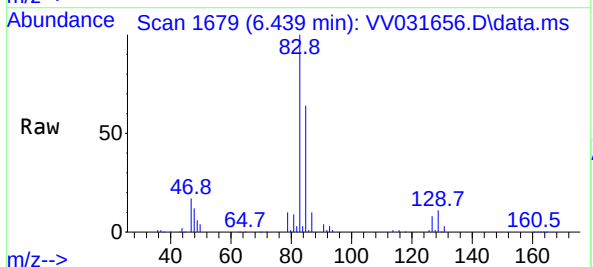
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

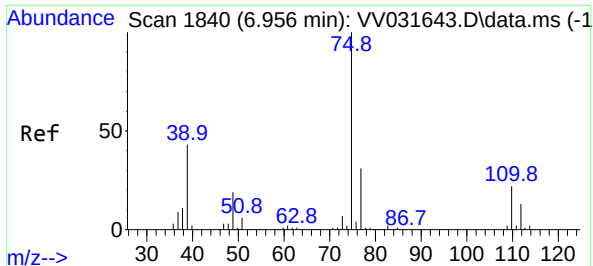
Tgt Ion: 63 Resp: 80221  
Ion Ratio Lower Upper  
63 100  
112 4.5 3.3 4.9



#38  
Bromodichloromethane  
Concen: 49.657 ug/L  
RT: 6.439 min Scan# 1679  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 83 Resp: 111266  
Ion Ratio Lower Upper  
83 100  
85 63.6 45.3 84.1  
127 8.9 7.6 11.4





#39

cis-1,3-Dichloropropene

Concen: 43.103 ug/L

RT: 6.960 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

Instrument :

MSVOA\_V

ClientSampleId :

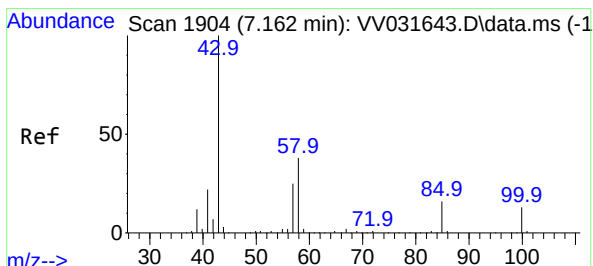
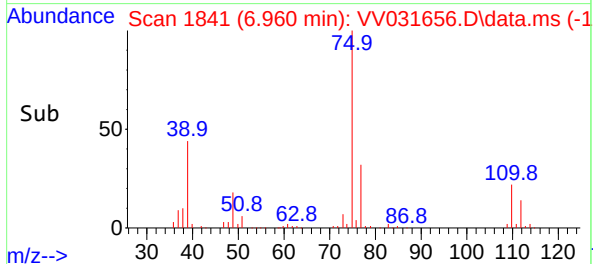
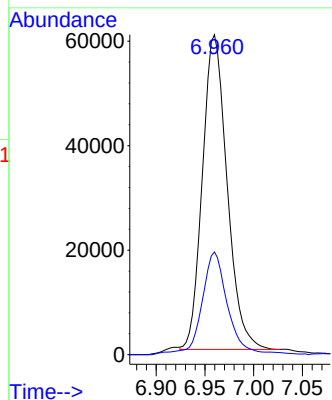
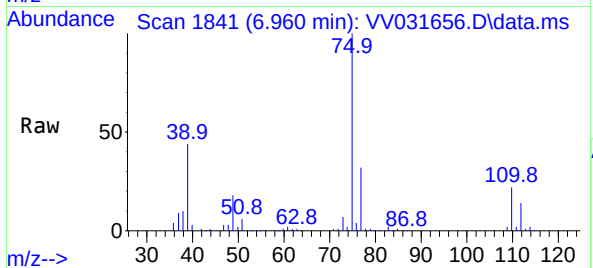
VSTD050386

Tgt Ion: 75 Resp: 106065

Ion Ratio Lower Upper

75 100

77 32.1 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 111.886 ug/L

RT: 7.165 min Scan# 1905

Delta R.T. 0.003 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

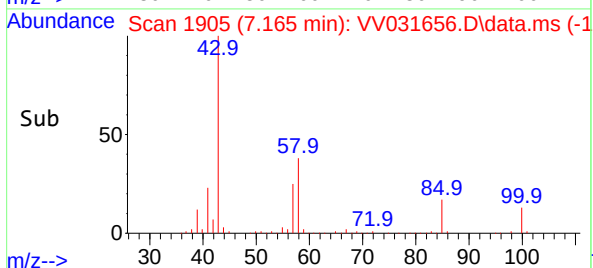
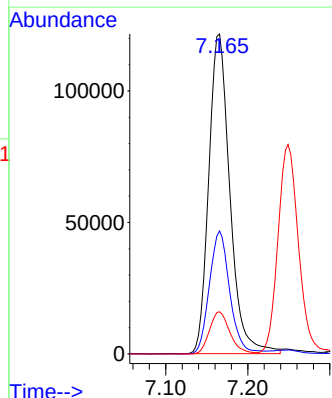
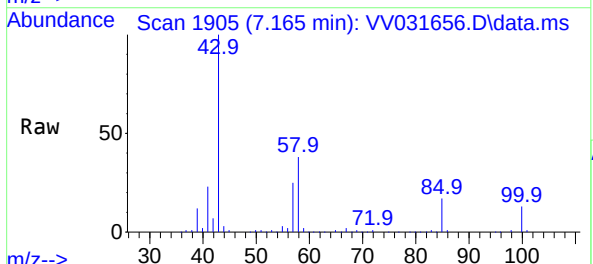
Tgt Ion: 43 Resp: 217787

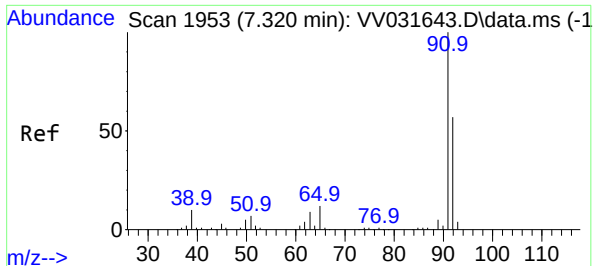
Ion Ratio Lower Upper

43 100

58 37.3 31.8 47.8

100 12.7 11.1 16.7





#42

Toluene

Concen: 49.321 ug/L

RT: 7.320 min Scan# 1953

Delta R.T. 0.000 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

Instrument :

MSVOA\_V

ClientSampleId :

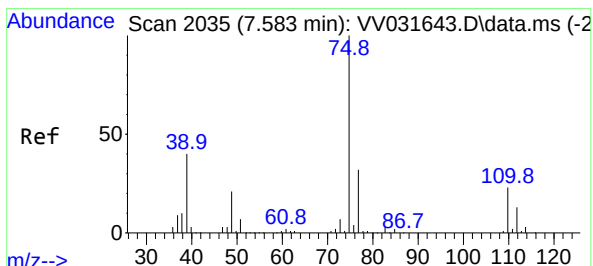
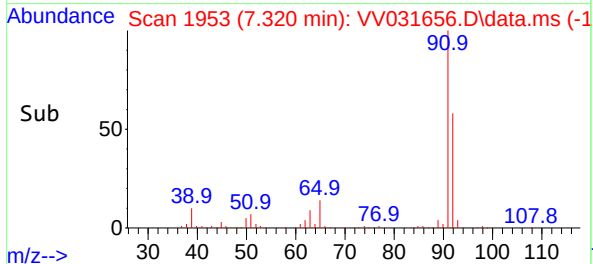
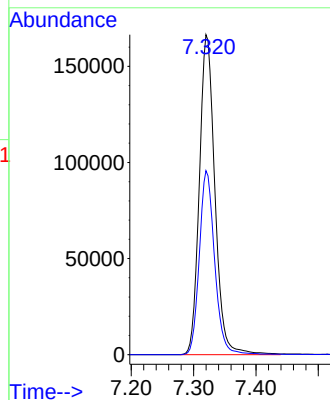
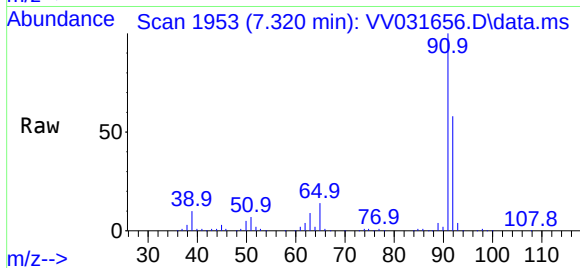
VSTD050386

Tgt Ion: 91 Resp: 288690

Ion Ratio Lower Upper

91 100

92 57.5 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 48.279 ug/L

RT: 7.587 min Scan# 2036

Delta R.T. 0.003 min

Lab File: VV031656.D

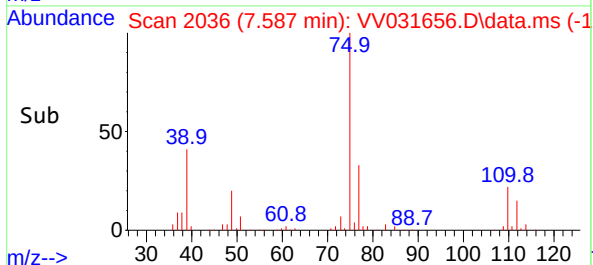
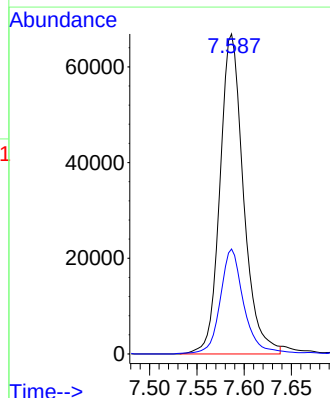
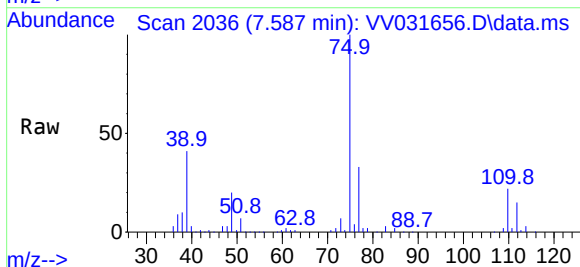
Acq: 10 Jul 2023 09:44

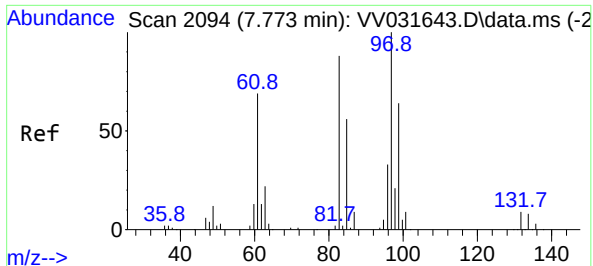
Tgt Ion: 75 Resp: 115695

Ion Ratio Lower Upper

75 100

77 32.8 22.1 41.1

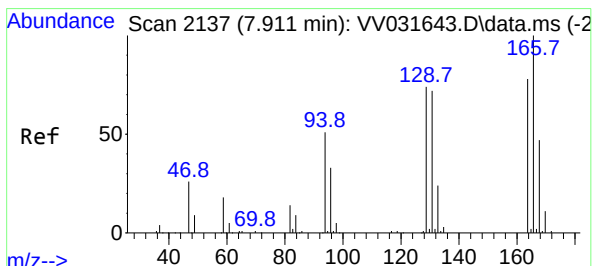
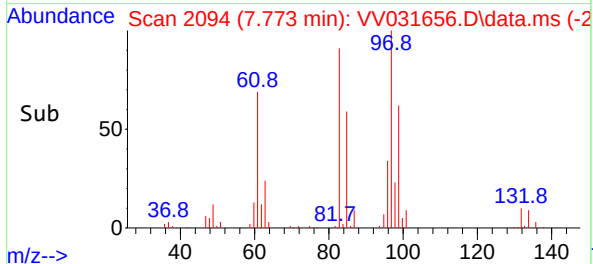
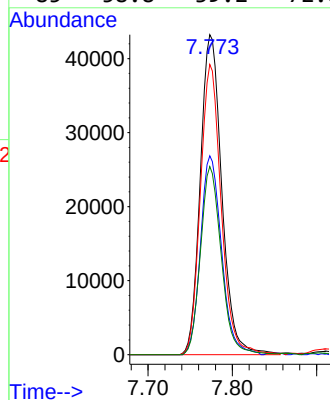
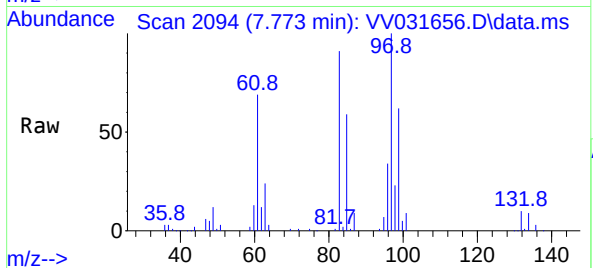




#45  
1,1,2-Trichloroethane  
Concen: 49.163 ug/L  
RT: 7.773 min Scan# 2094  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

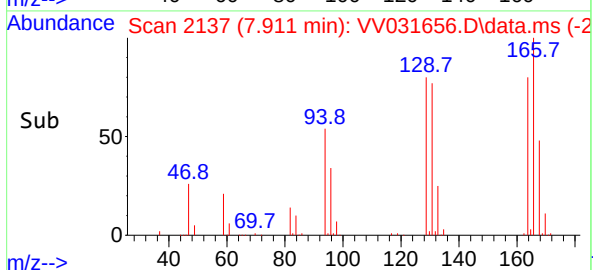
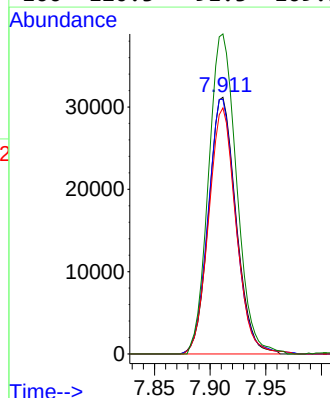
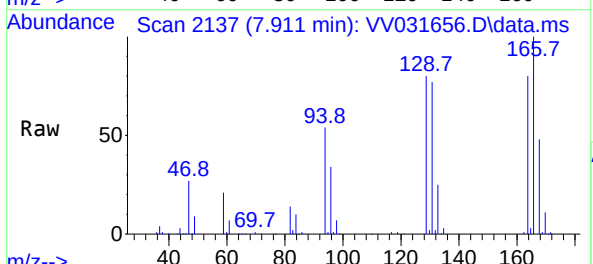
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

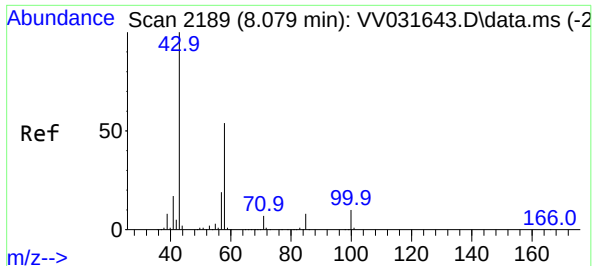
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 76988 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.2  | 43.7  | 81.1  |
| 83       | 90.7  | 60.9  | 113.1 |
| 85       | 58.8  | 39.2  | 72.8  |



#46  
Tetrachloroethene  
Concen: 45.060 ug/L  
RT: 7.911 min Scan# 2137  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 53350 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 95.7  | 68.4  | 127.0 |
| 131      | 92.5  | 67.6  | 125.6 |
| 166      | 120.3 | 91.3  | 169.5 |

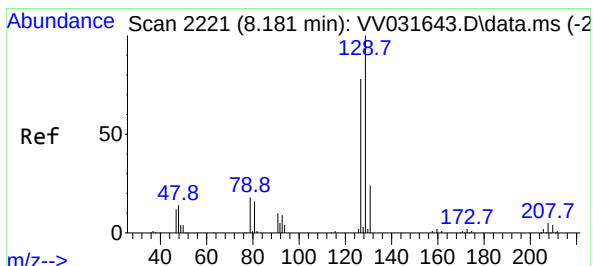
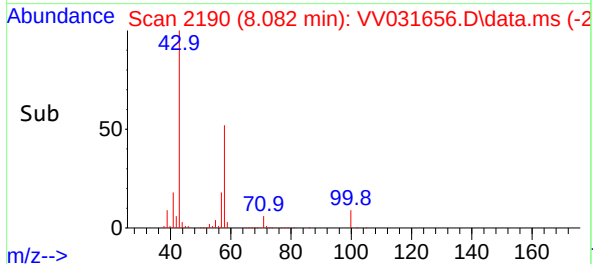
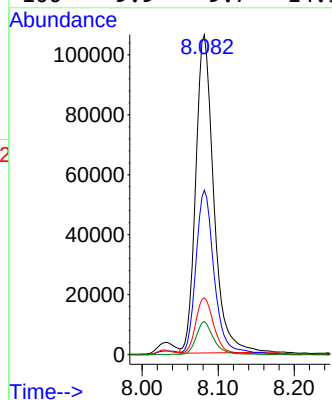
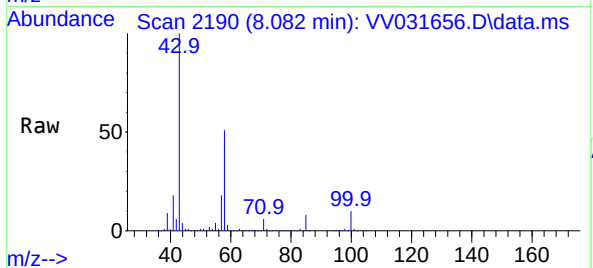




#48  
2-Hexanone  
Concen: 112.764 ug/L  
RT: 8.082 min Scan# 2189  
Delta R.T. 0.003 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

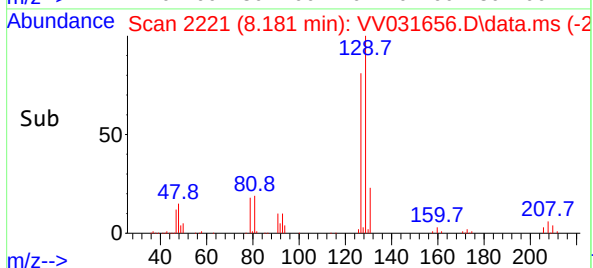
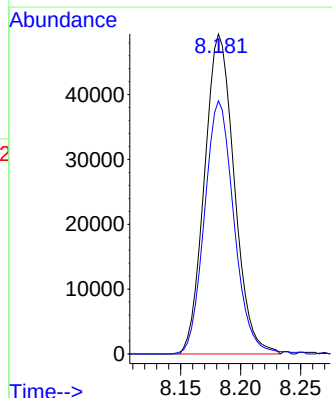
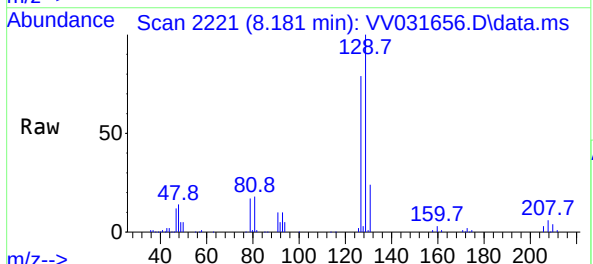
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

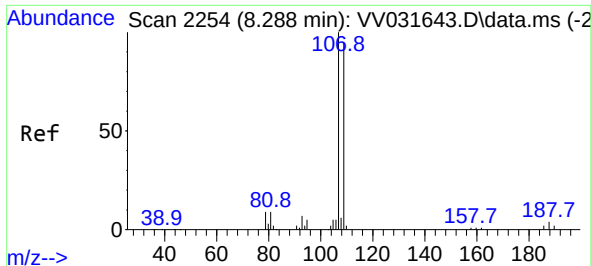
Tgt Ion: 43 Resp: 175302  
Ion Ratio Lower Upper  
43 100  
58 51.0 46.7 70.1  
57 17.7 15.5 23.3  
100 9.9 9.7 14.5



#49  
Dibromochloromethane  
Concen: 49.064 ug/L  
RT: 8.181 min Scan# 2221  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 129 Resp: 85393  
Ion Ratio Lower Upper  
129 100  
127 82.0 55.8 103.6

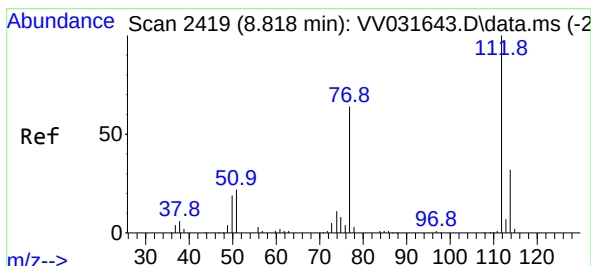
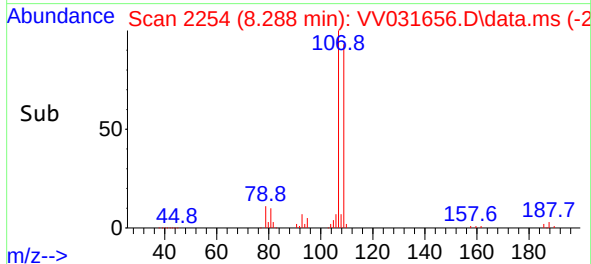
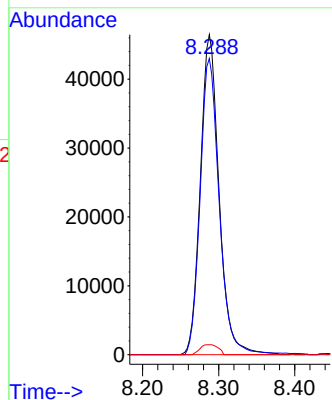
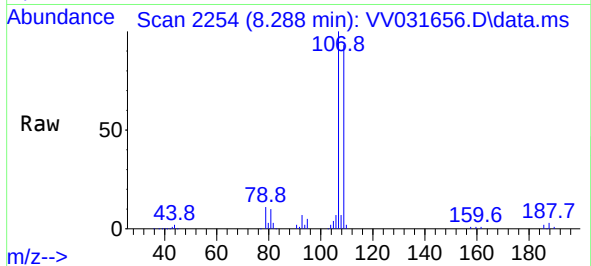




#50  
1,2-Dibromoethane  
Concen: 47.760 ug/L  
RT: 8.288 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

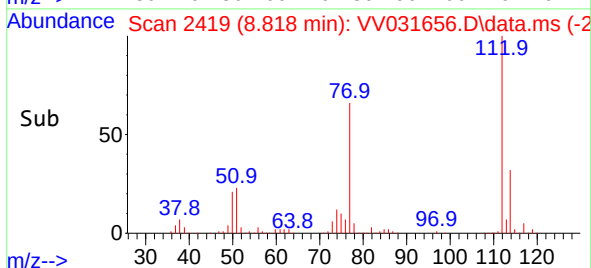
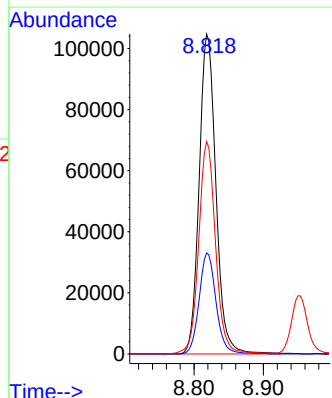
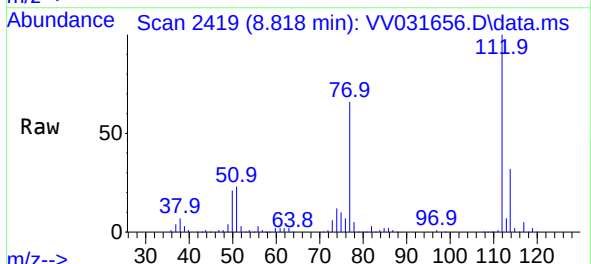
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

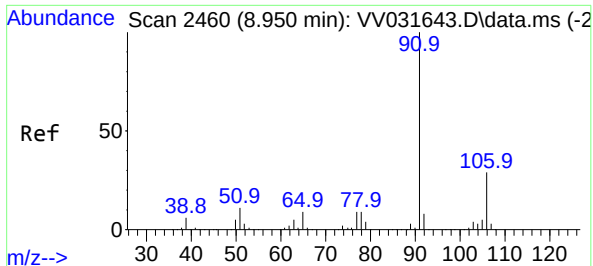
Tgt Ion:107 Resp: 79636  
Ion Ratio Lower Upper  
107 100  
109 92.6 65.7 122.1  
188 3.1 2.6 4.0



#51  
Chlorobenzene  
Concen: 45.398 ug/L  
RT: 8.818 min Scan# 2419  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion:112 Resp: 175993  
Ion Ratio Lower Upper  
112 100  
114 31.5 22.9 42.5  
77 66.4 52.5 78.7





#52

Ethylbenzene

Concen: 47.038 ug/L

RT: 8.953 min Scan# 2460

Delta R.T. 0.003 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

Instrument :

MSVOA\_V

ClientSampleId :

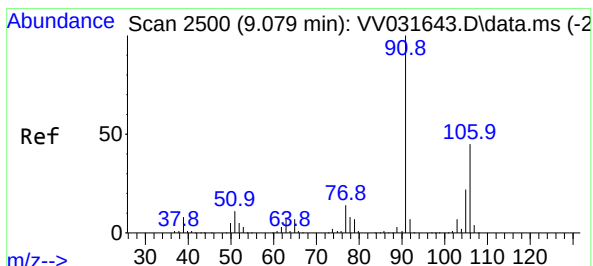
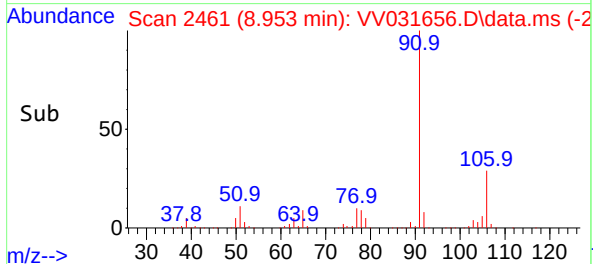
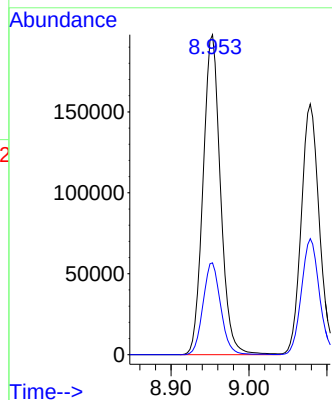
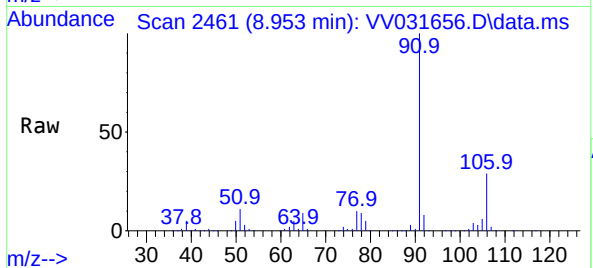
VSTD050386

Tgt Ion: 91 Resp: 307219

Ion Ratio Lower Upper

91 100

106 28.7 20.8 38.6



#53

m,p-Xylene

Concen: 48.028 ug/L

RT: 9.079 min Scan# 2500

Delta R.T. 0.000 min

Lab File: VV031656.D

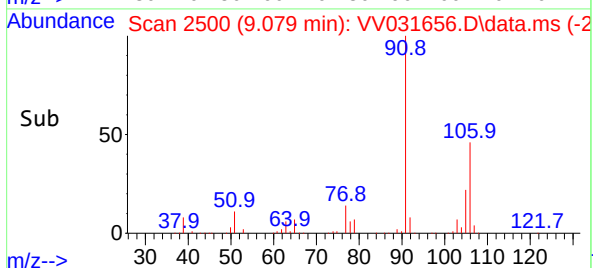
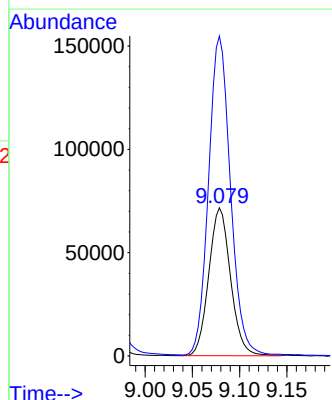
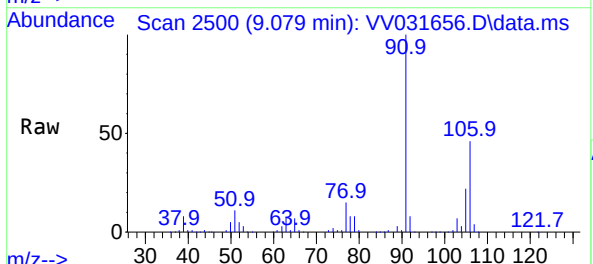
Acq: 10 Jul 2023 09:44

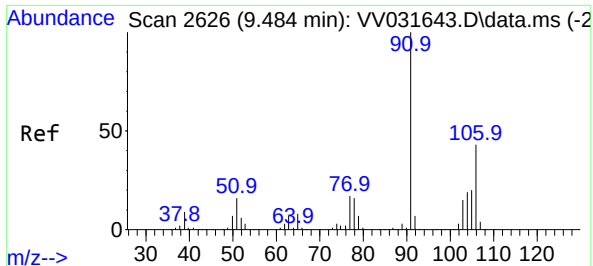
Tgt Ion:106 Resp: 114875

Ion Ratio Lower Upper

106 100

91 216.0 149.0 276.6

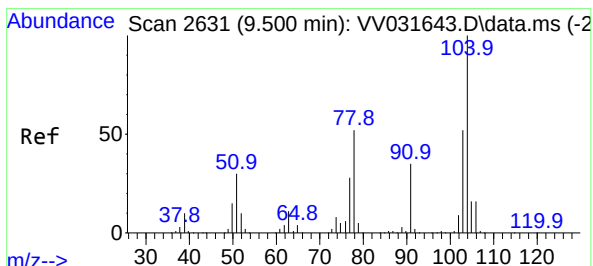
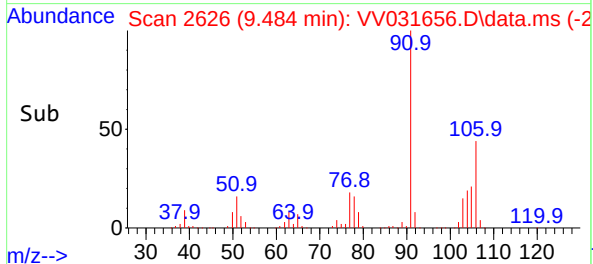
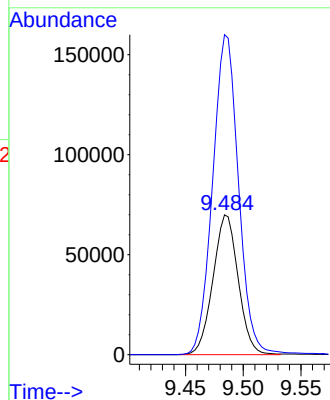
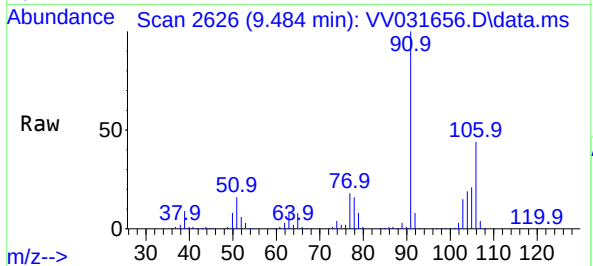




#54  
o-Xylene  
Concen: 46.715 ug/L  
RT: 9.484 min Scan# 2626  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

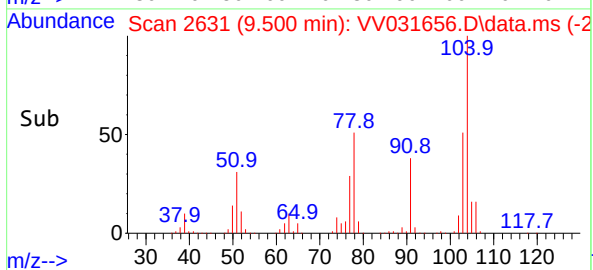
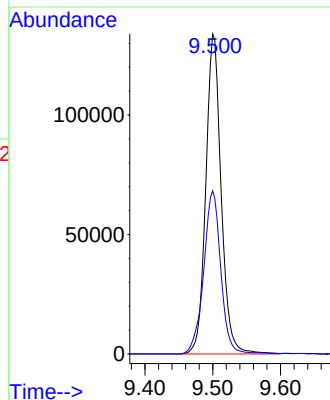
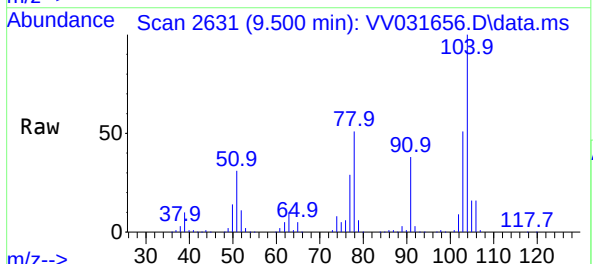
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

Tgt Ion:106 Resp: 106032  
Ion Ratio Lower Upper  
106 100  
91 228.9 161.3 299.7

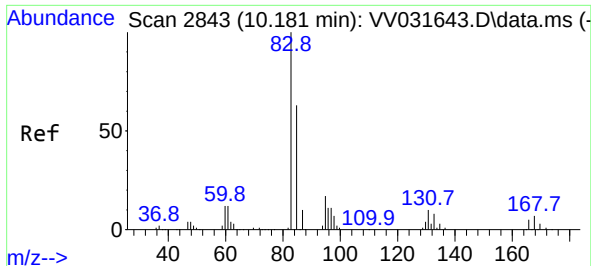


#55  
Styrene  
Concen: 52.064 ug/L  
RT: 9.500 min Scan# 2631  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion:104 Resp: 211049  
Ion Ratio Lower Upper  
104 100  
78 51.0 35.1 65.3



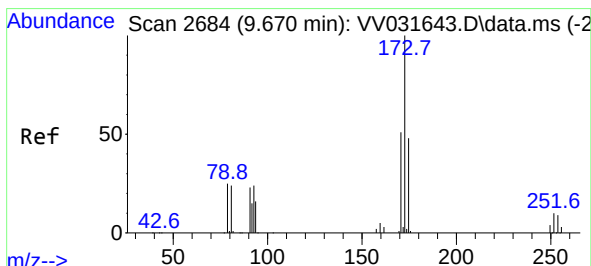
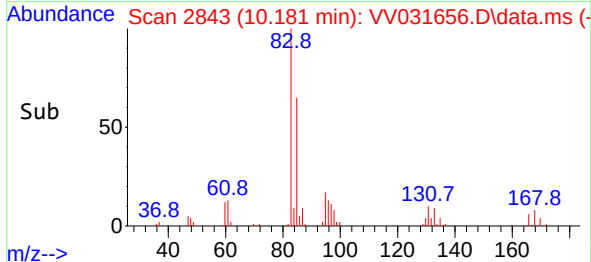
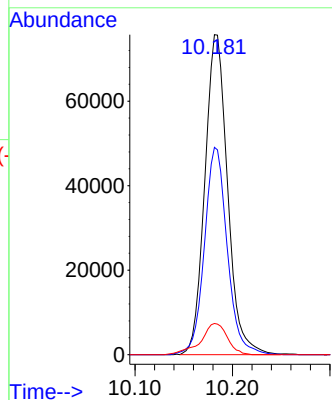
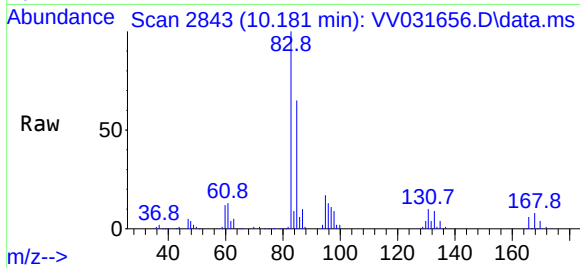




#57  
1,1,2,2-Tetrachloroethane  
Concen: 48.064 ug/L  
RT: 10.181 min Scan# 2843  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

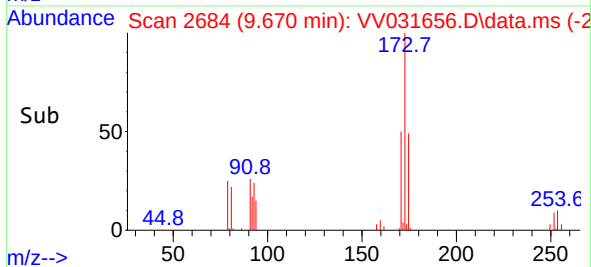
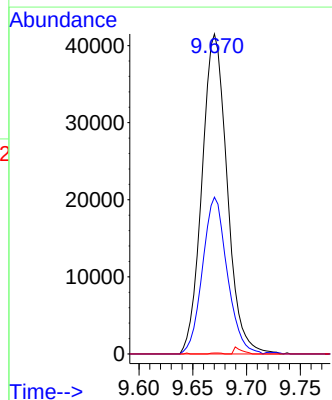
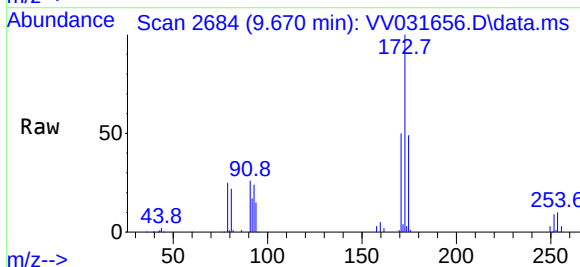
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

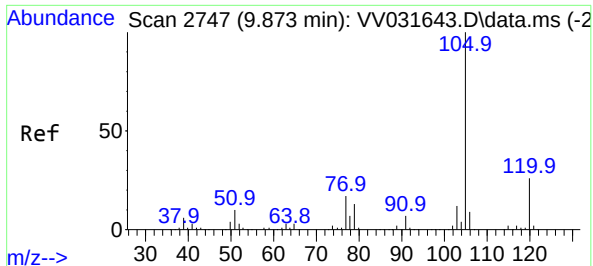
Tgt Ion: 83 Resp: 122981  
Ion Ratio Lower Upper  
83 100  
85 64.8 43.1 80.1  
131 13.6 10.6 16.0



#59  
Bromoform  
Concen: 47.002 ug/L  
RT: 9.670 min Scan# 2684  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 173 Resp: 67604  
Ion Ratio Lower Upper  
173 100  
175 48.1 37.7 56.5  
254 0.1 0.1 0.1#

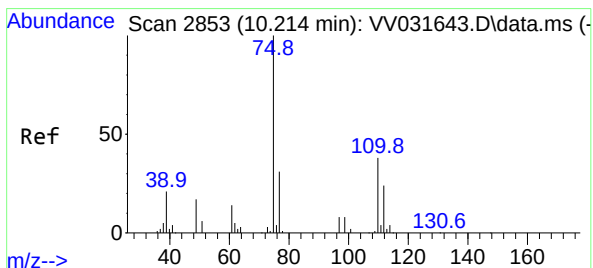
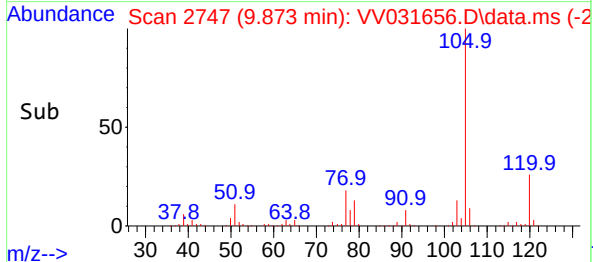
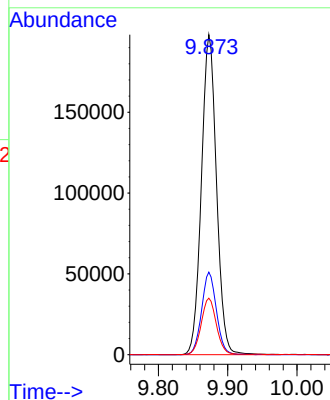
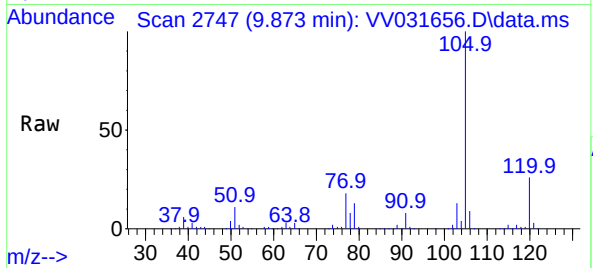




#60  
Isopropylbenzene  
Concen: 40.498 ug/L  
RT: 9.873 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

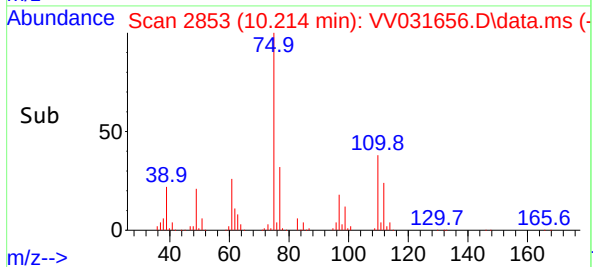
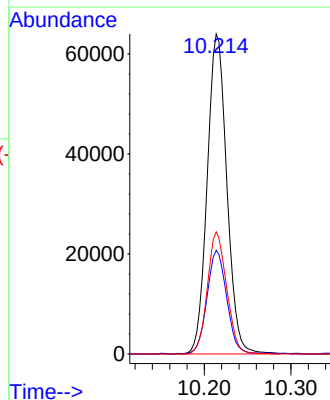
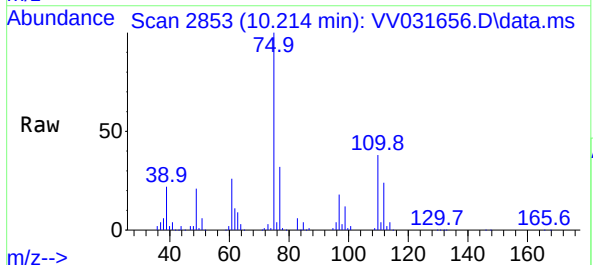
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

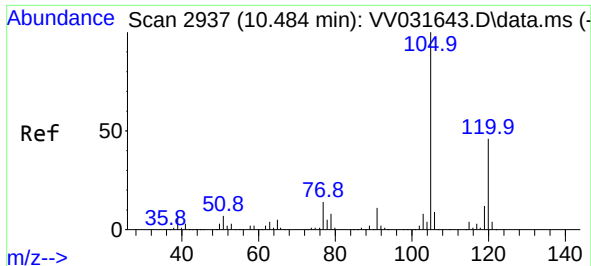
Tgt Ion:105 Resp: 299584  
Ion Ratio Lower Upper  
105 100  
120 25.2 20.2 30.2  
77 17.9 13.5 20.3



#61  
1,2,3-Trichloropropane  
Concen: 44.029 ug/L  
RT: 10.214 min Scan# 2853  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion: 75 Resp: 100908  
Ion Ratio Lower Upper  
75 100  
77 32.3 25.4 38.0  
110 37.4 31.3 46.9

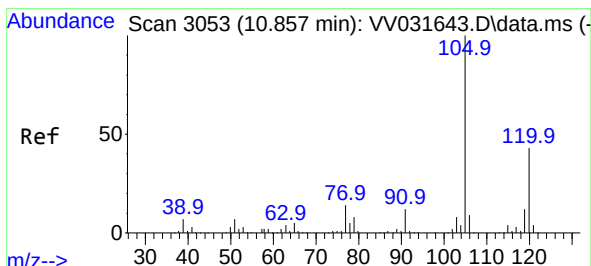
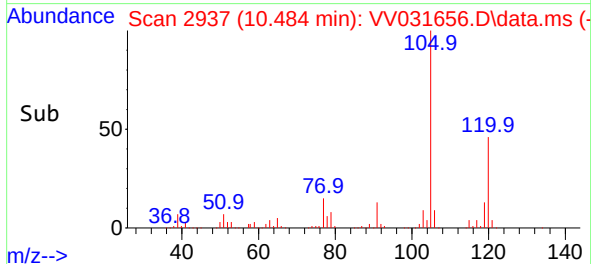
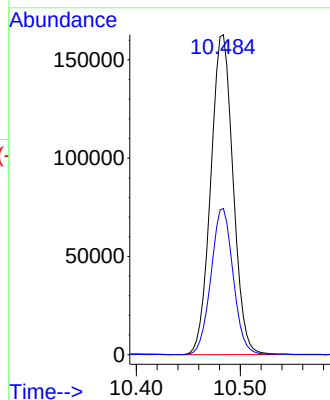
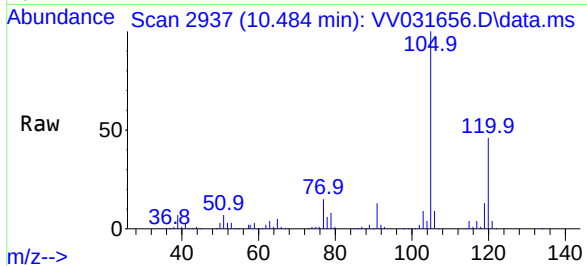




#62  
1,3,5-Trimethylbenzene  
Concen: 39.772 ug/L  
RT: 10.484 min Scan# 2937  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

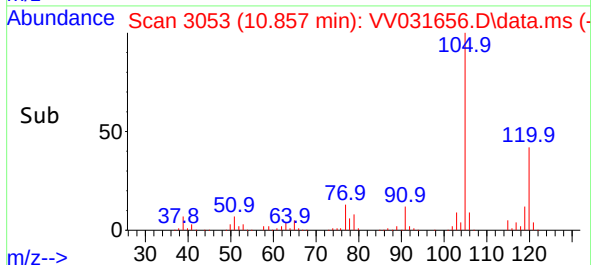
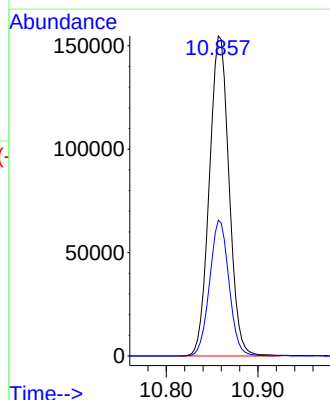
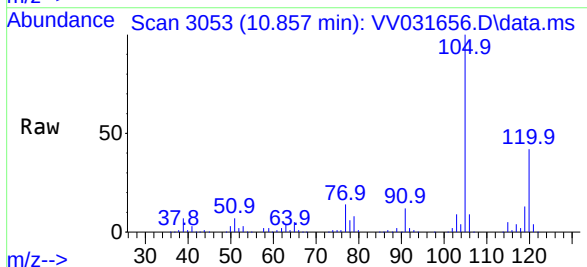
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

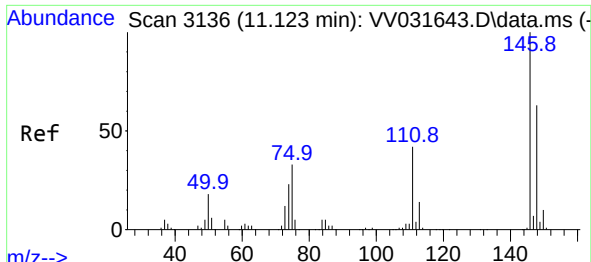
Tgt Ion:105 Resp: 243165  
Ion Ratio Lower Upper  
105 100  
120 45.5 36.2 54.2



#63  
1,2,4-Trimethylbenzene  
Concen: 40.465 ug/L  
RT: 10.857 min Scan# 3053  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion:105 Resp: 230515  
Ion Ratio Lower Upper  
105 100  
120 41.7 33.4 50.2

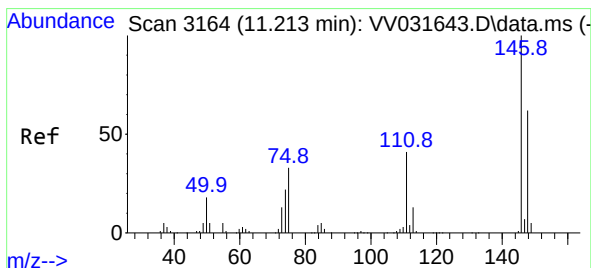
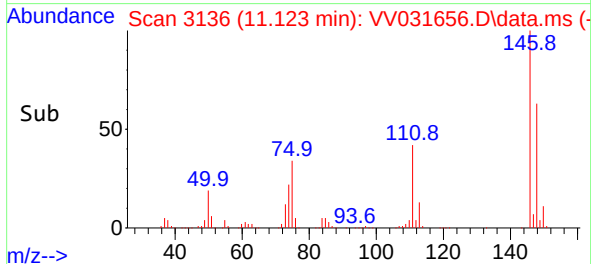
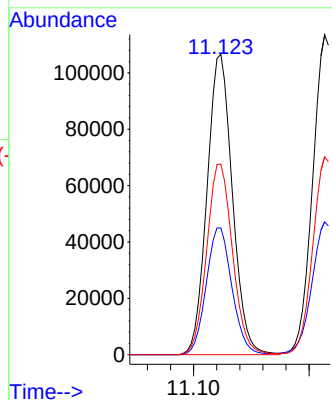
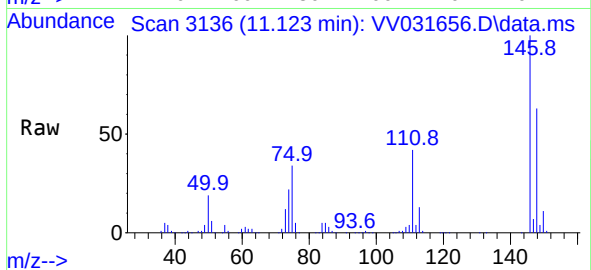




#64  
1,3-Dichlorobenzene  
Concen: 43.868 ug/L  
RT: 11.123 min Scan# 3136  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

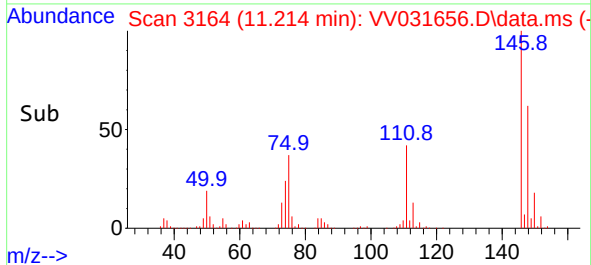
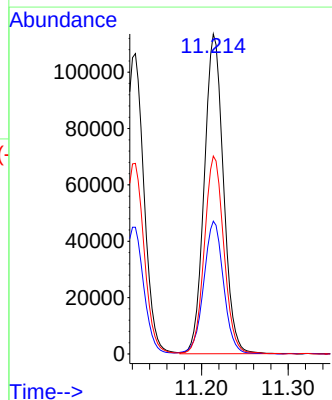
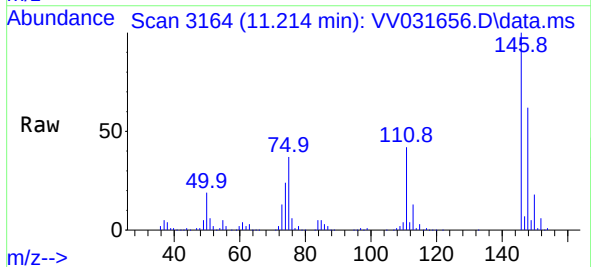
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

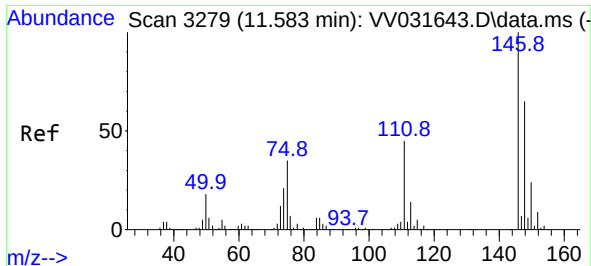
Tgt Ion:146 Resp: 162694  
Ion Ratio Lower Upper  
146 100  
111 42.2 30.4 56.5  
148 63.5 44.7 83.1



#65  
1,4-Dichlorobenzene  
Concen: 44.201 ug/L  
RT: 11.214 min Scan# 3164  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion:146 Resp: 174683  
Ion Ratio Lower Upper  
146 100  
111 41.5 27.9 51.7  
148 61.9 43.6 81.0





#67

1,2-Dichlorobenzene

Concen: 44.008 ug/L

RT: 11.583 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050386

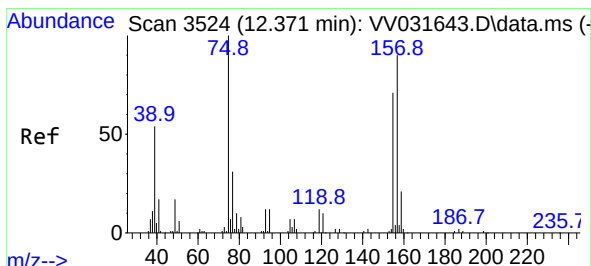
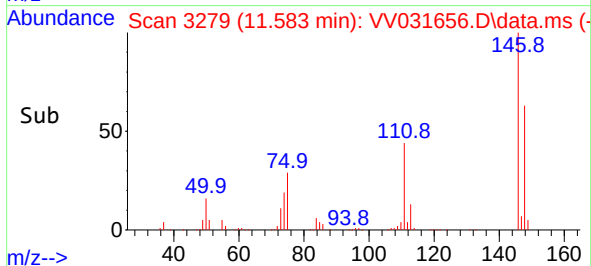
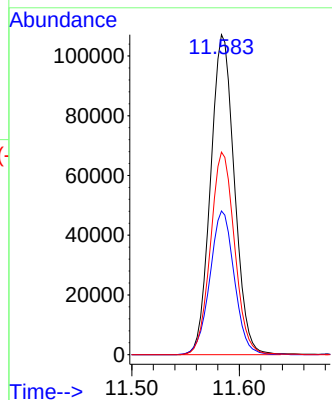
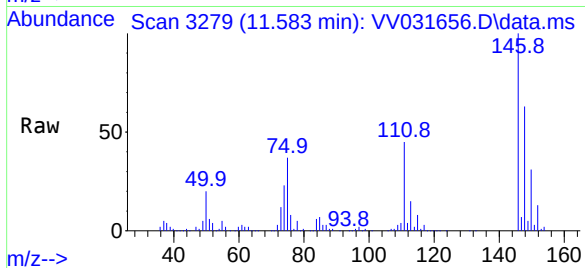
Tgt Ion:146 Resp: 164731

Ion Ratio Lower Upper

146 100

111 44.9 35.9 53.9

148 63.3 52.6 78.8



#68

1,2-Dibromo-3-chloropropane

Concen: 47.931 ug/L

RT: 12.371 min Scan# 3524

Delta R.T. 0.000 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

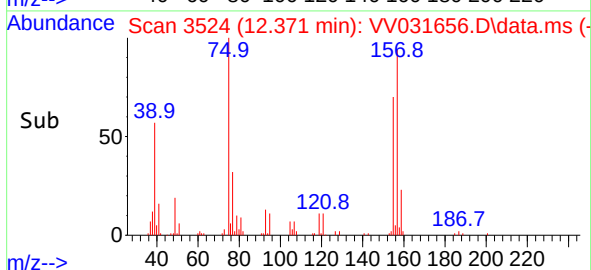
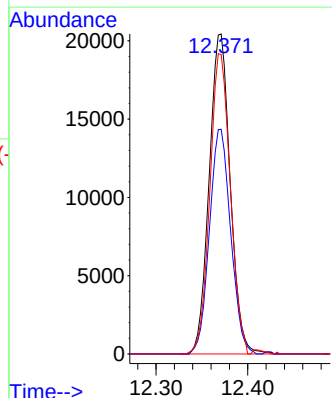
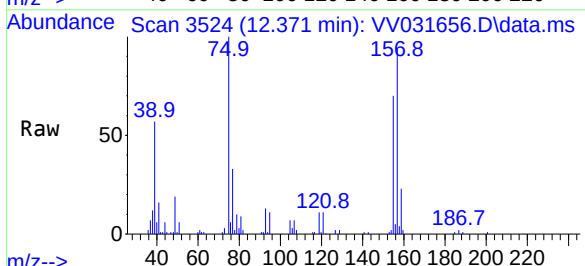
Tgt Ion: 75 Resp: 32604

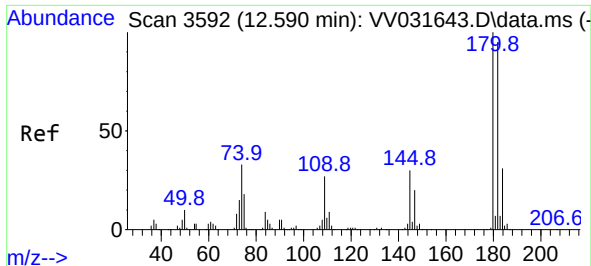
Ion Ratio Lower Upper

75 100

155 70.2 63.2 94.8

157 93.6 85.3 127.9





#69

1,3,5-Trichlorobenzene

Concen: 46.107 ug/L

RT: 12.586 min Scan# 3591

Delta R.T. -0.003 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050386

Tgt Ion:180 Resp: 130297

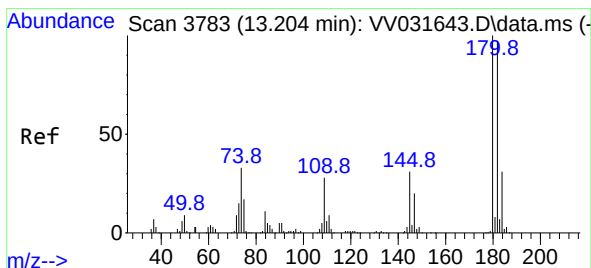
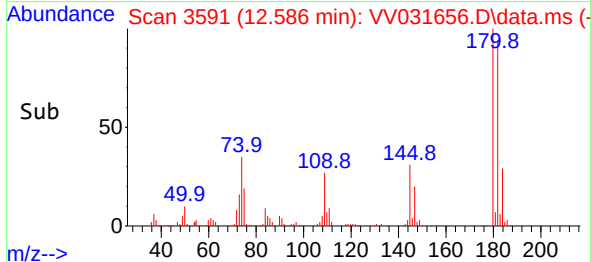
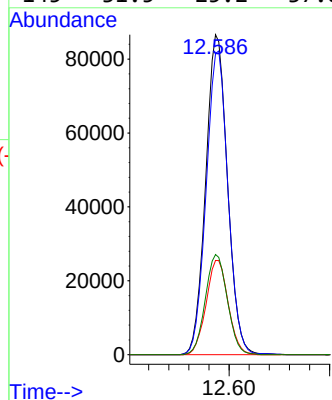
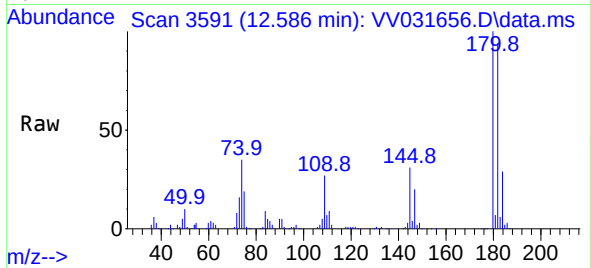
Ion Ratio Lower Upper

180 100

182 95.0 76.6 115.0

184 29.9 24.7 37.1

145 31.5 25.2 37.8



#70

1,2,4-trichlorobenzene

Concen: 42.872 ug/L

RT: 13.204 min Scan# 3783

Delta R.T. 0.000 min

Lab File: VV031656.D

Acq: 10 Jul 2023 09:44

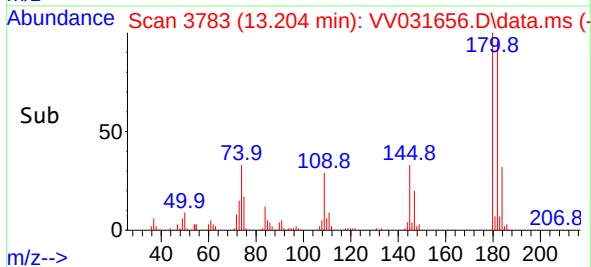
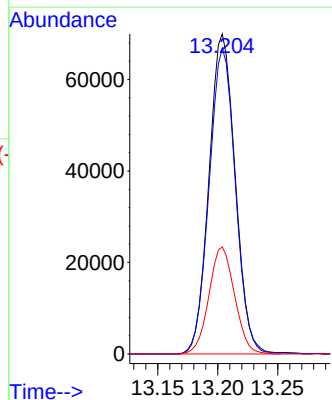
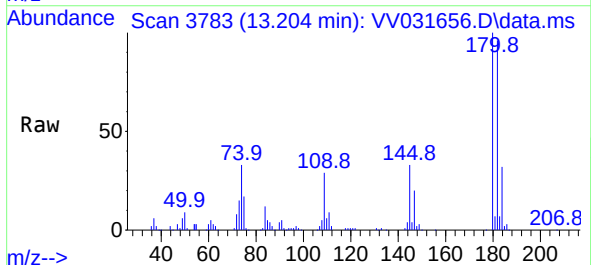
Tgt Ion:180 Resp: 106196

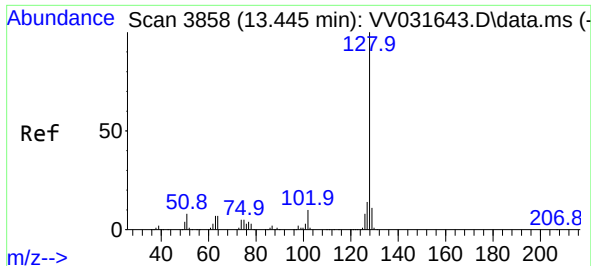
Ion Ratio Lower Upper

180 100

182 95.9 77.7 116.5

145 32.7 26.1 39.1

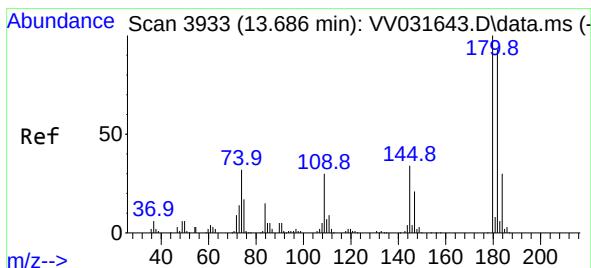
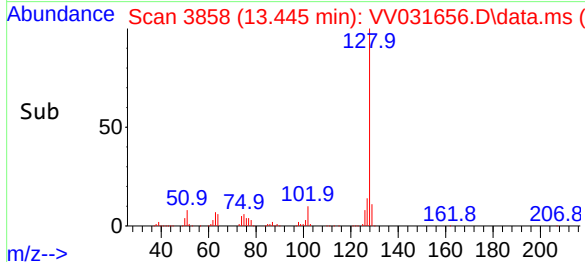
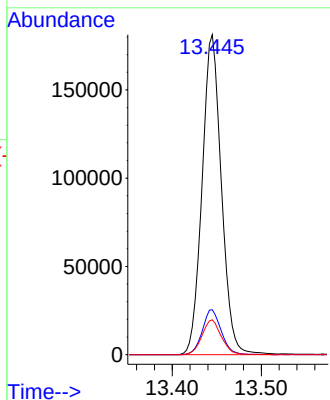
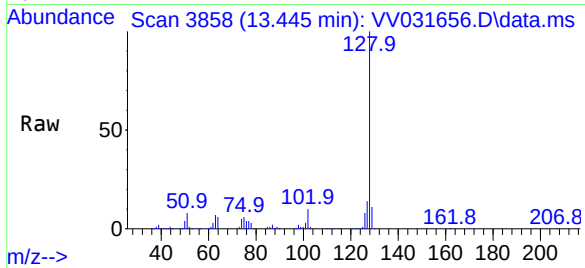




#71  
Naphthalene  
Concen: 43.458 ug/L  
RT: 13.445 min Scan# 3858  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050386

Tgt Ion:128 Resp: 272668  
Ion Ratio Lower Upper  
128 100  
127 13.7 10.6 16.0  
129 11.0 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 44.913 ug/L  
RT: 13.686 min Scan# 3933  
Delta R.T. 0.000 min  
Lab File: VV031656.D  
Acq: 10 Jul 2023 09:44

Tgt Ion:180 Resp: 115609  
Ion Ratio Lower Upper  
180 100  
182 95.9 74.0 111.0  
145 34.7 26.2 39.2

