

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV071323\  
 Data File : VV031698.D  
 Acq On : 13 Jul 2023 16:30  
 Operator : SY/MD  
 Sample : VV0713WBL01  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VBLK348

Quant Time: Jul 14 06:07:09 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jul 14 06:00:54 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.542  | 114   | 193934   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.792  | 117   | 205875   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191 | 152   | 88371    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 77095    | 4.489    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 89.800%  |
| 7) Chloroethane-d5            | 1.532  | 69    | 70511    | 4.529    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 90.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.059  | 65    | 40127    | 4.553    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 91.000%  |
| 20) 2-Butanone-d5             | 3.805  | 46    | 202808   | 46.222   | ug/L   | -0.01    |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 92.440%  |
| 24) Chloroform-d              | 4.259  | 84    | 172782   | 4.723    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.400%  |
| 26) 1,2-Dichloroethane-d4     | 4.950  | 65    | 91184    | 4.879    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 97.600%  |
| 32) Benzene-d6                | 4.969  | 84    | 284298   | 4.837    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 96.800%  |
| 36) 1,2-Dichloropropane-d6    | 5.998  | 67    | 106890   | 4.907    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 98.200%  |
| 41) Toluene-d8                | 7.252  | 98    | 226420   | 4.195    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 83.800%  |
| 43) trans-1,3-Dichloroprop... | 7.561  | 79    | 34085    | 4.954    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 99.000%  |
| 46) 2-Hexanone-d5             | 8.034  | 63    | 138468   | 43.335   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 86.680%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159 | 84    | 77570    | 4.853    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 97.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567 | 152   | 83682    | 5.437    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 108.800% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108  | 85    | 4856     | 0.231    | ug/L   | 94       |
| 3) Chloromethane              | 1.230  | 50    | 5622     | 0.258    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.281  | 62    | 4779     | 0.229    | ug/L # | 52       |
| 6) Bromomethane               | 1.487  | 94    | 3843     | 0.301    | ug/L   | 90       |
| 8) Chloroethane               | 1.551  | 64    | 3423     | 0.283    | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 1.712  | 101   | 8070     | 0.268    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069  | 101   | 5367     | 0.324    | ug/L # | 87       |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 4864     | 0.321    | ug/L # | 1        |
| 13) Acetone                   | 2.127  | 43    | 9551     | 3.421    | ug/L   | 99       |
| 14) Carbon disulfide          | 2.243  | 76    | 8452     | 0.180    | ug/L   | 96       |
| 15) Methyl Acetate            | 2.400  | 43    | 1895     | 0.317    | ug/L # | 60       |
| 16) Methylene chloride        | 2.449  | 84    | 6989     | 0.348    | ug/L   | 90       |
| 17) Methyl tert-butyl Ether   | 2.715  | 73    | 7021     | 0.253    | ug/L # | 89       |
| 18) trans-1,2-Dichloroethene  | 2.706  | 96    | 3321     | 0.254    | ug/L   | 89       |
| 19) 1,1-Dichloroethane        | 3.117  | 63    | 7341     | 0.257    | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 3.821  | 96    | 3467     | 0.268    | ug/L   | 91       |
| 23) Bromochloromethane        | 4.165  | 128   | 792      | 0.122    | ug/L # | 36       |
| 27) 1,2-Dichloroethane        | 5.069  | 62    | 3545     | 0.200    | ug/L # | 92       |
| 29) 1,1,1-Trichloroethane     | 4.526  | 97    | 6393     | 0.257    | ug/L # | 79       |

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 Sample : VV0713WBL01  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VBLK348

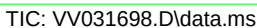
Quant Time: Jul 14 06:07:09 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jul 14 06:00:54 2023  
 Response via : Initial Calibration

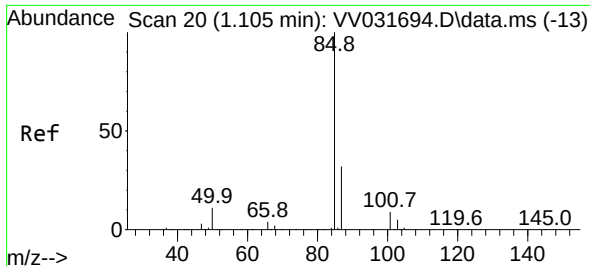
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 30) Cyclohexane               | 4.593  | 56   | 3965     | 0.219 | ug/L # | 91       |
| 33) Benzene                   | 5.024  | 78   | 14383    | 0.275 | ug/L   | 100      |
| 34) Trichloroethene           | 5.847  | 95   | 4482     | 0.302 | ug/L # | 66       |
| 35) Methylcyclohexane         | 6.050  | 83   | 3444     | 0.187 | ug/L # | 83       |
| 37) 1,2-Dichloropropane       | 6.104  | 63   | 3134     | 0.209 | ug/L # | 94       |
| 38) Bromodichloromethane      | 6.445  | 83   | 4791     | 0.240 | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 6.969  | 75   | 4255     | 0.228 | ug/L   | 90       |
| 40) 4-Methyl-2-pentanone      | 7.175  | 43   | 16612    | 2.070 | ug/L # | 89       |
| 42) Toluene                   | 7.333  | 91   | 13300    | 0.263 | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene | 7.599  | 75   | 3119     | 0.191 | ug/L # | 80       |
| 45) 1,1,2-Trichloroethane     | 7.792  | 97   | 2340     | 0.210 | ug/L # | 75       |
| 47) Tetrachloroethene         | 7.921  | 164  | 2833     | 0.277 | ug/L   | 84       |
| 48) 2-Hexanone                | 8.095  | 43   | 24260    | 4.126 | ug/L # | 98       |
| 49) Dibromochloromethane      | 8.188  | 129  | 1959     | 0.164 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.294  | 107  | 2438     | 0.234 | ug/L # | 95       |
| 51) Chlorobenzene             | 8.824  | 112  | 9259     | 0.278 | ug/L   | 91       |
| 53) m,p-Xylene                | 9.085  | 106  | 4596     | 0.248 | ug/L   | 81       |
| 54) o-Xylene                  | 9.490  | 106  | 3032     | 0.177 | ug/L   | 73       |
| 55) Styrene                   | 9.513  | 104  | 6808     | 0.210 | ug/L   | 90       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 3473     | 0.294 | ug/L   | 91       |
| 59) Bromoform                 | 9.670  | 173  | 1565     | 0.265 | ug/L # | 58       |
| 60) Isopropylbenzene          | 9.876  | 105  | 9387     | 0.240 | ug/L # | 90       |
| 61) 1,2,3-Trichloropropane    | 10.217 | 75   | 2510     | 0.320 | ug/L # | 91       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 7976     | 0.253 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.863 | 105  | 7735     | 0.245 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.130 | 146  | 5841     | 0.277 | ug/L   | 89       |
| 65) 1,4-Dichlorobenzene       | 11.220 | 146  | 6734     | 0.302 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 11.586 | 146  | 6801     | 0.336 | ug/L   | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.593 | 180  | 4895     | 0.317 | ug/L # | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.210 | 180  | 4099     | 0.335 | ug/L   | 96       |
| 71) Naphthalene               | 13.451 | 128  | 7757     | 0.393 | ug/L # | 97       |
| 72) 1,2,3-Trichlorobenzene    | 13.689 | 180  | 3313     | 0.293 | ug/L # | 90       |
| -----                         |        |      |          |       |        |          |

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

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VBLK348

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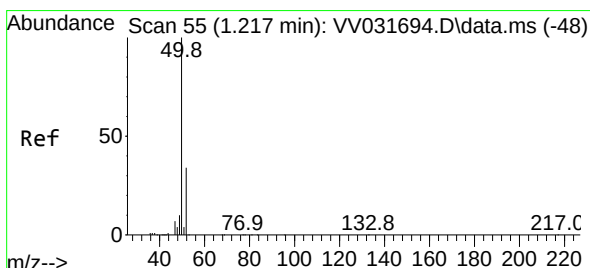
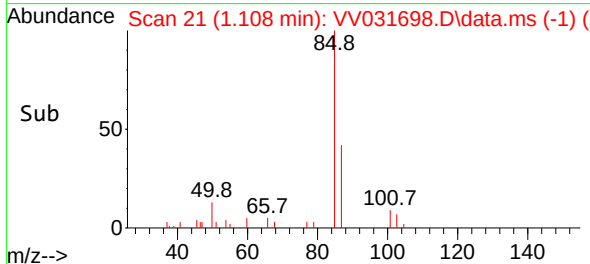
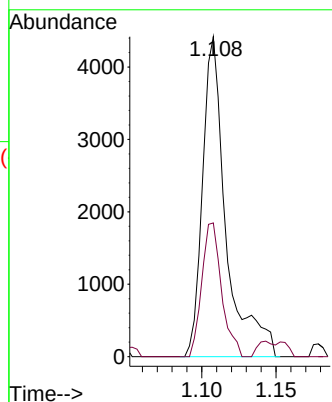
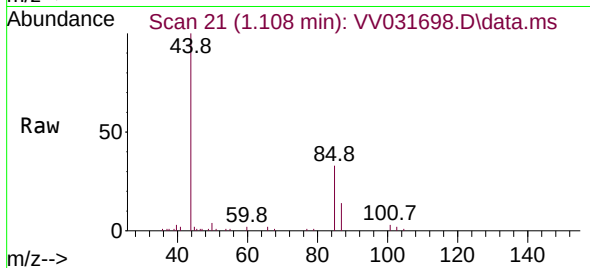




#2  
 Dichlorodifluoromethane  
 Concen: 0.231 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: VV031698.D  
 Acq: 13 Jul 2023 16:30

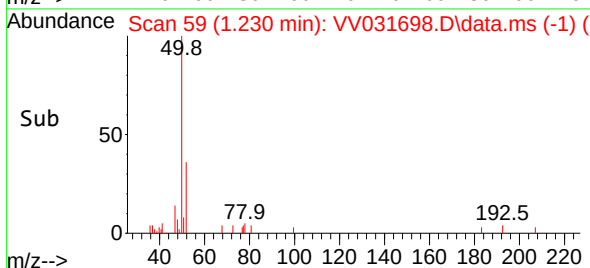
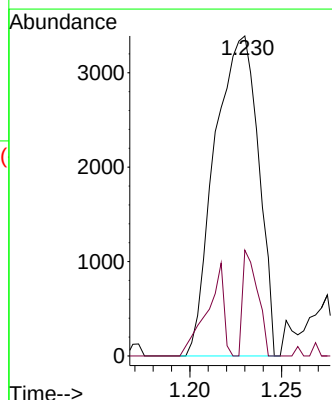
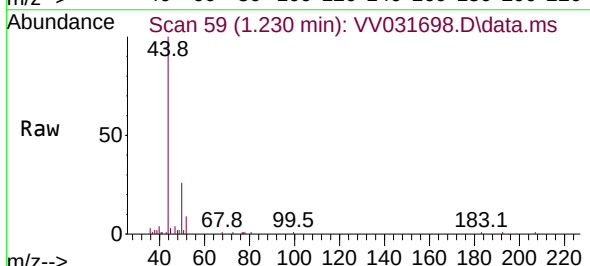
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VBLK348

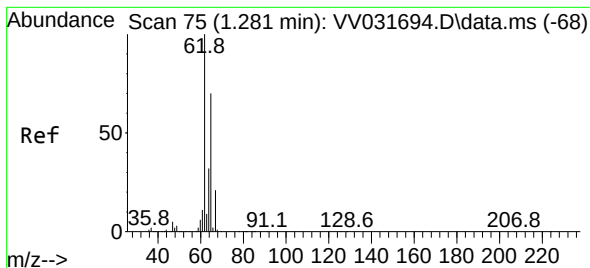
Tgt Ion: 85 Resp: 4856  
 Ion Ratio Lower Upper  
 85 100  
 87 35.2 25.5 38.3



#3  
 Chloromethane  
 Concen: 0.258 ug/L  
 RT: 1.230 min Scan# 59  
 Delta R.T. 0.013 min  
 Lab File: VV031698.D  
 Acq: 13 Jul 2023 16:30

Tgt Ion: 50 Resp: 5622  
 Ion Ratio Lower Upper  
 50 100  
 52 33.0 23.5 43.7

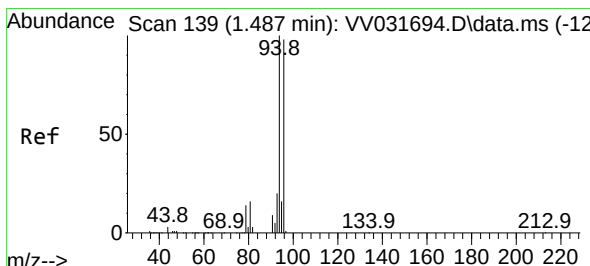
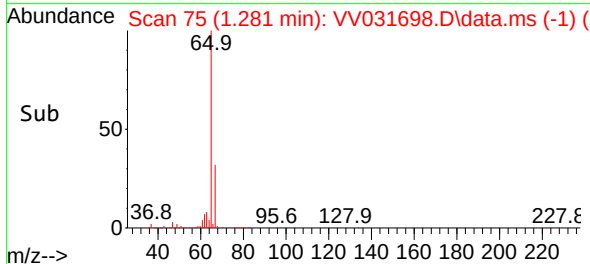
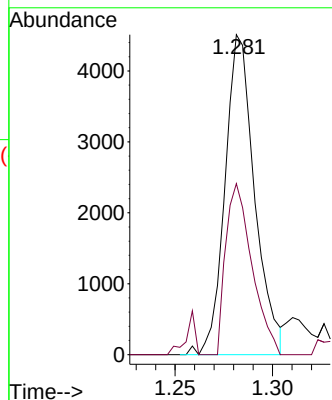
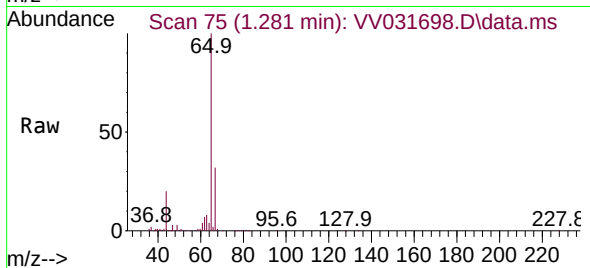




#5  
 Vinyl chloride  
 Concen: 0.229 ug/L  
 RT: 1.281 min Scan# 75  
 Delta R.T. -0.000 min  
 Lab File: VV031698.D  
 Acq: 13 Jul 2023 16:30

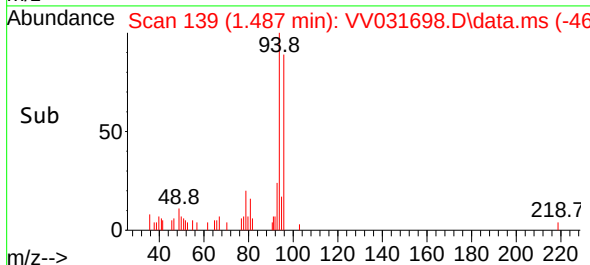
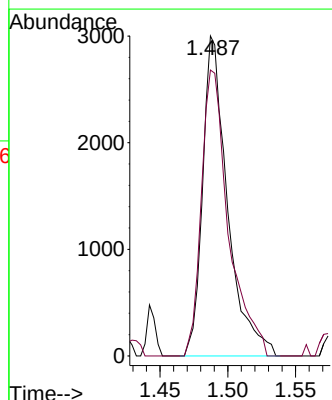
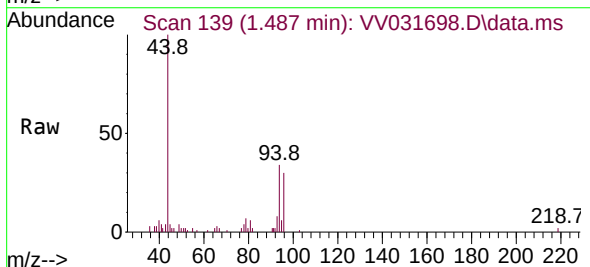
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VBLK348

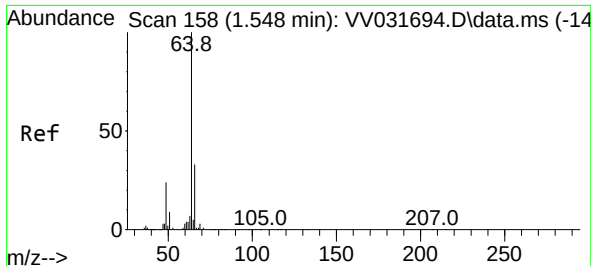
Tgt Ion: 62 Resp: 4779  
 Ion Ratio Lower Upper  
 62 100  
 64 53.4 71.7 133.1#



#6  
 Bromomethane  
 Concen: 0.301 ug/L  
 RT: 1.487 min Scan# 139  
 Delta R.T. -0.000 min  
 Lab File: VV031698.D  
 Acq: 13 Jul 2023 16:30

Tgt Ion: 94 Resp: 3843  
 Ion Ratio Lower Upper  
 94 100  
 96 89.3 69.4 128.8

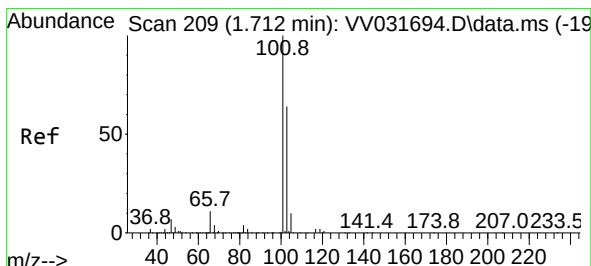
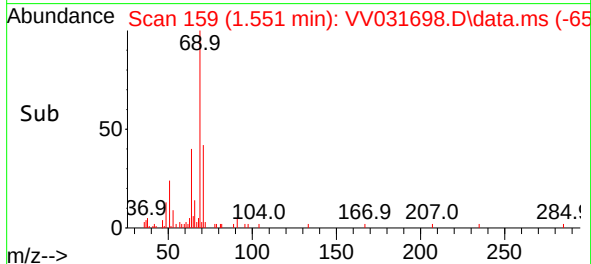
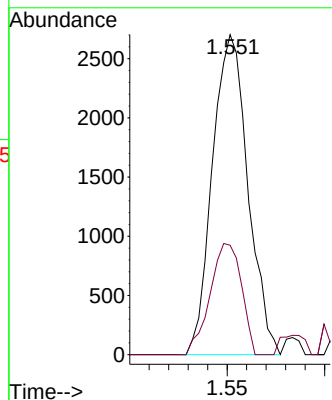
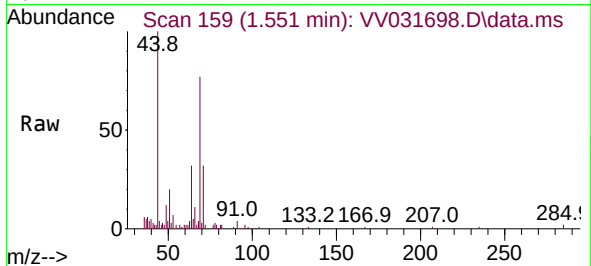




#8  
Chloroethane  
Concen: 0.283 ug/L  
RT: 1.551 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

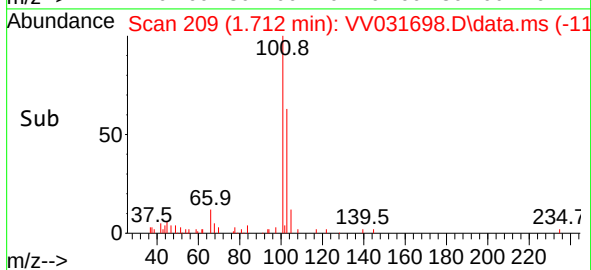
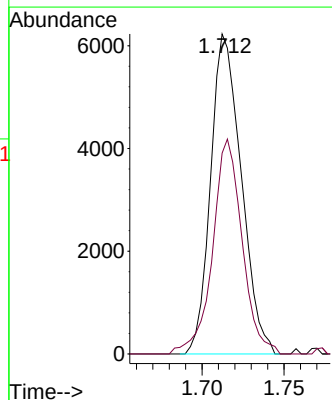
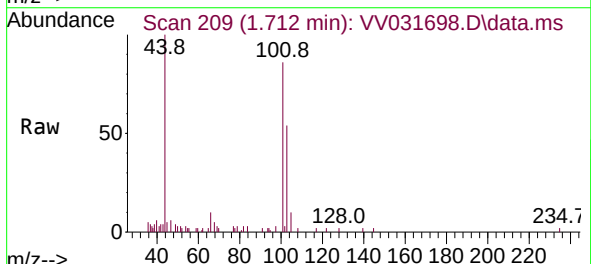
Instrument :  
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ClientSampleId :  
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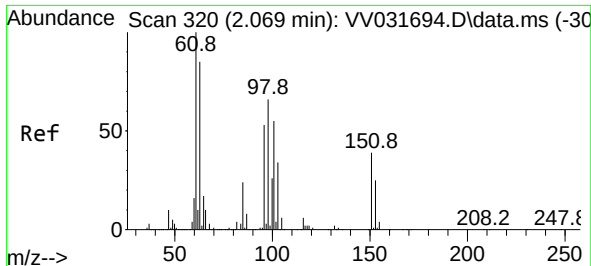
Tgt Ion: 64 Resp: 3423  
Ion Ratio Lower Upper  
64 100  
66 34.2 23.0 42.6



#9  
Trichlorofluoromethane  
Concen: 0.268 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. -0.000 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Tgt Ion: 101 Resp: 8070  
Ion Ratio Lower Upper  
101 100  
103 64.8 51.0 76.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.324 ug/L

RT: 2.069 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

VBLK348

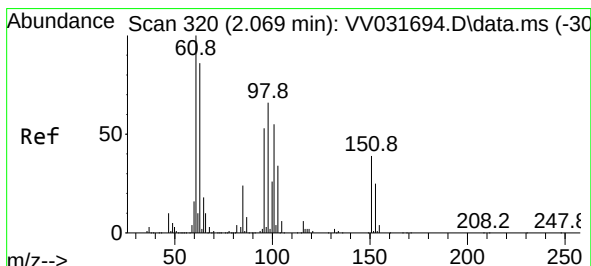
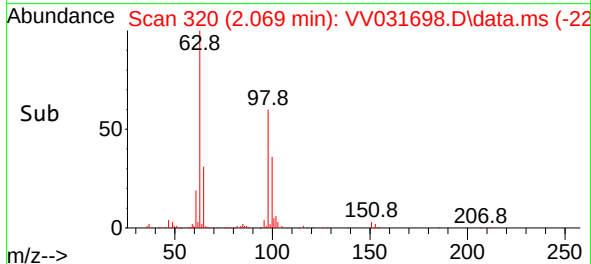
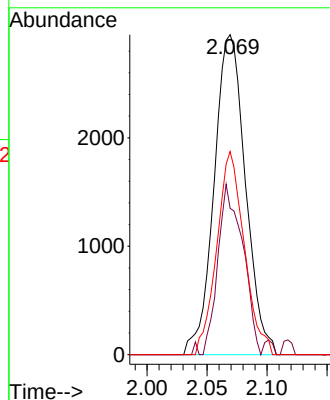
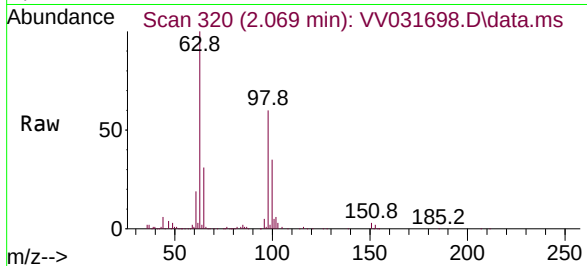
Tgt Ion:101 Resp: 5367

Ion Ratio Lower Upper

101 100

85 42.3 36.2 54.2

151 55.6 56.6 84.8#



#12

1,1-Dichloroethene

Concen: 0.321 ug/L

RT: 2.069 min Scan# 320

Delta R.T. -0.000 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

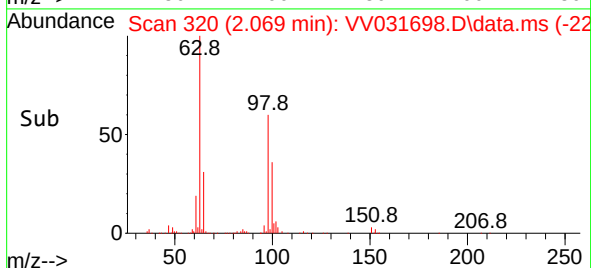
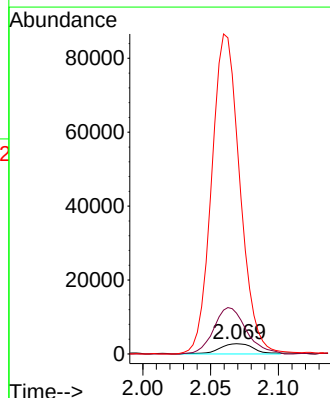
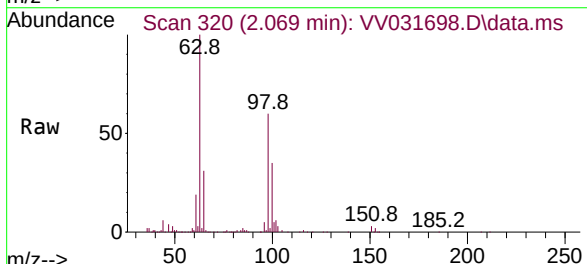
Tgt Ion: 96 Resp: 4864

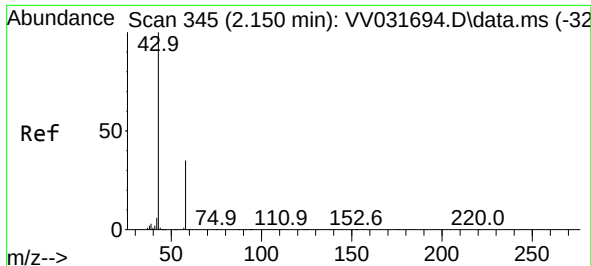
Ion Ratio Lower Upper

96 100

61 400.9 131.3 243.9#

63 2161.5 112.6 209.2#





#13

Acetone

Concen: 3.421 ug/L

RT: 2.127 min Scan# 31

Delta R.T. -0.023 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

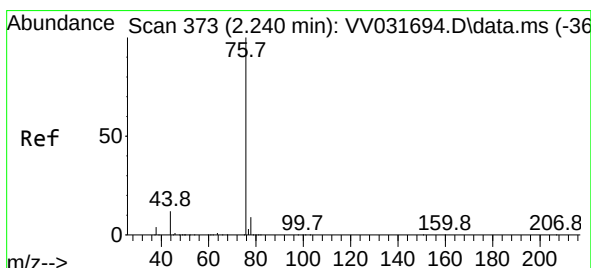
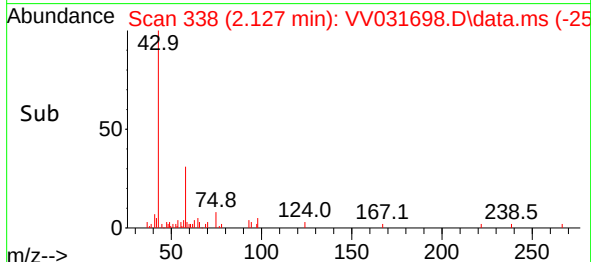
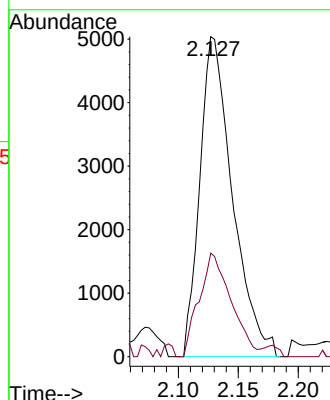
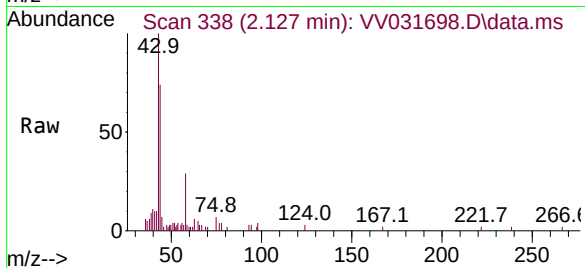
VBLK348

Tgt Ion: 43 Resp: 9551

Ion Ratio Lower Upper

43 100

58 31.6 0.0 64.6



#14

Carbon disulfide

Concen: 0.180 ug/L

RT: 2.243 min Scan# 374

Delta R.T. 0.003 min

Lab File: VV031698.D

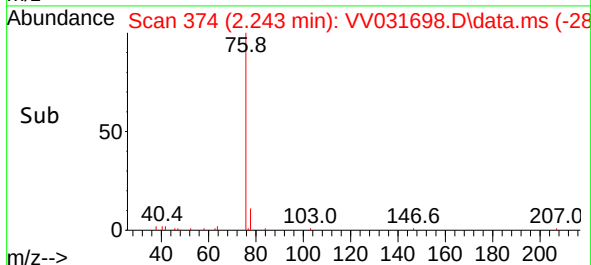
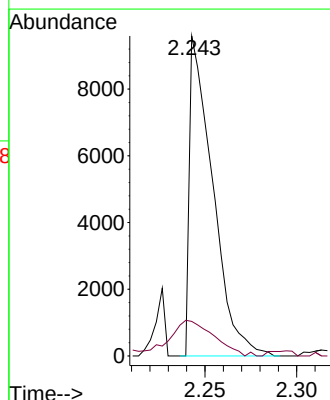
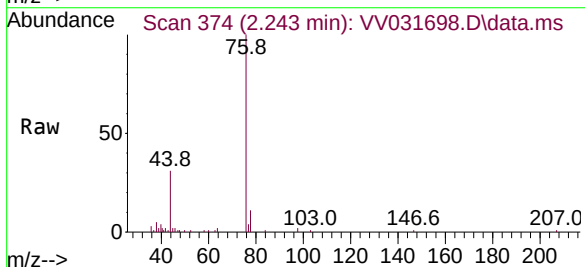
Acq: 13 Jul 2023 16:30

Tgt Ion: 76 Resp: 8452

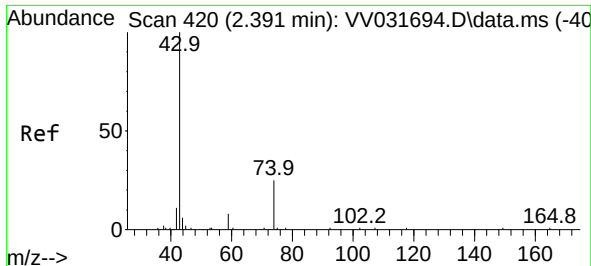
Ion Ratio Lower Upper

76 100

78 10.8 7.4 11.2



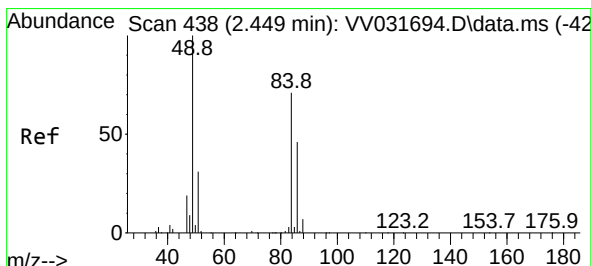
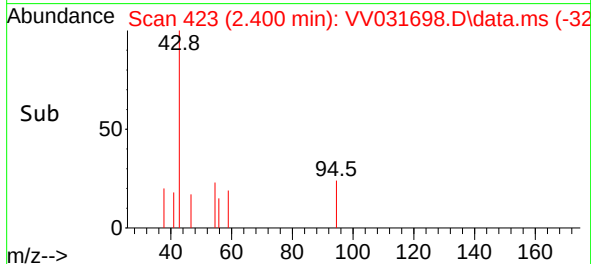
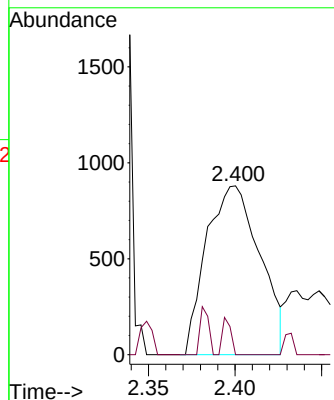
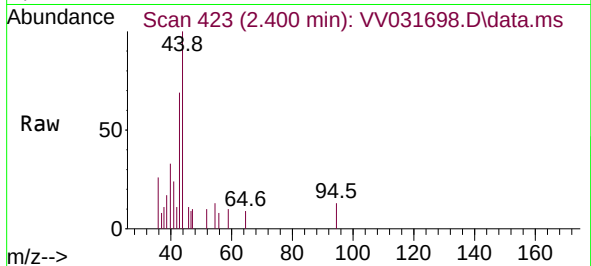




#15  
Methyl Acetate  
Concen: 0.317 ug/L  
RT: 2.400 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

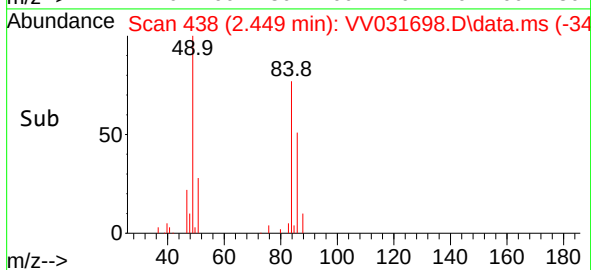
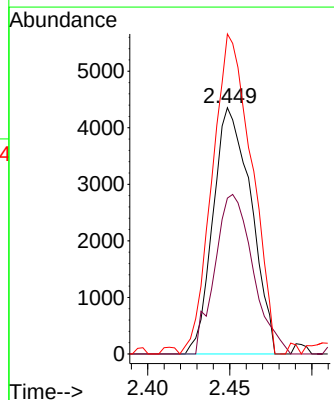
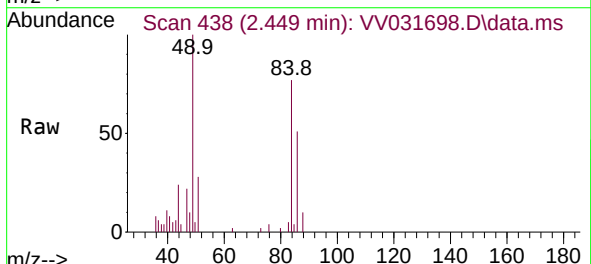
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

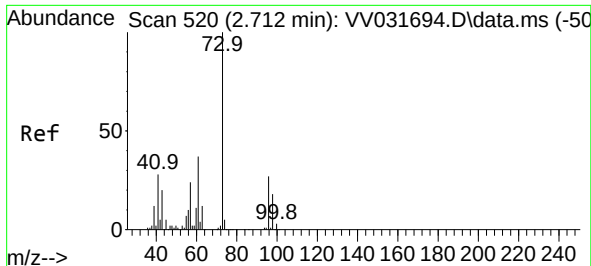
Tgt Ion: 43 Resp: 1895  
Ion Ratio Lower Upper  
43 100  
74 3.5 18.0 27.0#



#16  
Methylene chloride  
Concen: 0.348 ug/L  
RT: 2.449 min Scan# 438  
Delta R.T. -0.000 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Tgt Ion: 84 Resp: 6989  
Ion Ratio Lower Upper  
84 100  
86 63.3 46.3 86.1  
49 130.0 101.8 189.0





#17

Methyl tert-butyl Ether

Concen: 0.253 ug/L

RT: 2.715 min Scan# 518

Delta R.T. 0.003 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

VBLK348

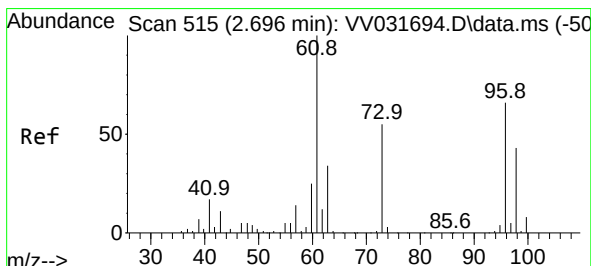
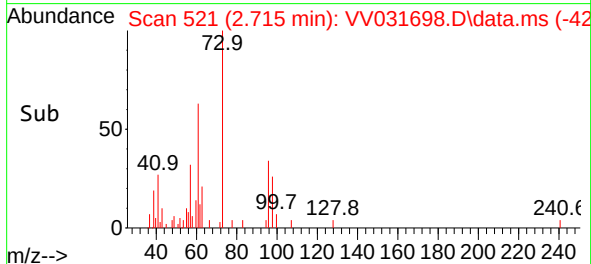
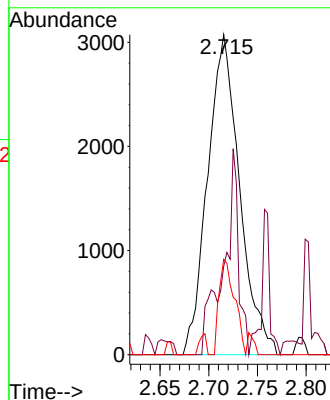
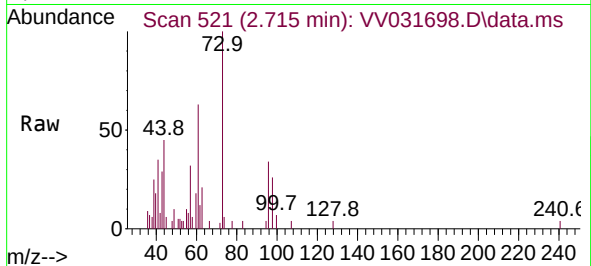
Tgt Ion: 73 Resp: 7021

Ion Ratio Lower Upper

73 100

43 22.8 18.1 27.1

57 14.4 19.6 29.4#



#18

trans-1,2-Dichloroethene

Concen: 0.254 ug/L

RT: 2.706 min Scan# 518

Delta R.T. 0.010 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

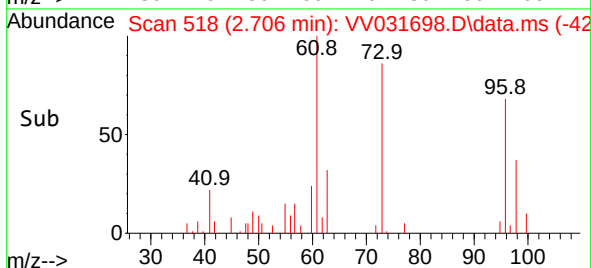
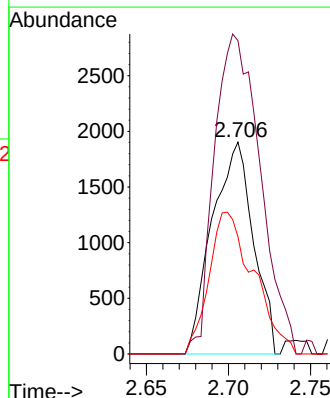
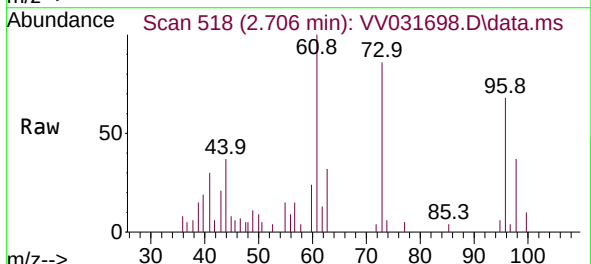
Tgt Ion: 96 Resp: 3321

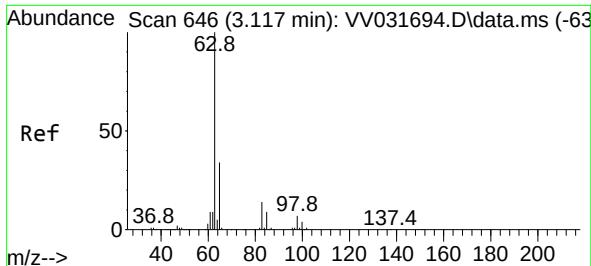
Ion Ratio Lower Upper

96 100

61 139.9 105.5 195.9

98 52.4 45.4 84.2

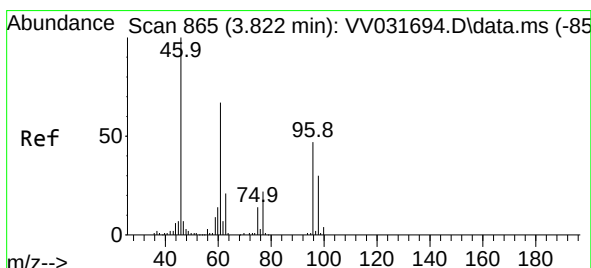
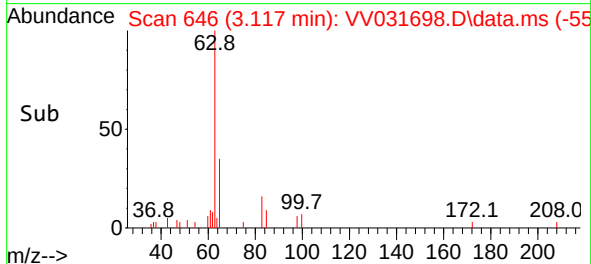
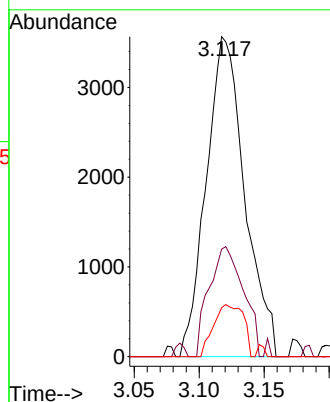
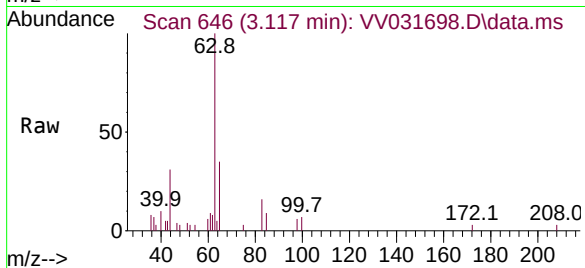




#19  
1,1-Dichloroethane  
Concen: 0.257 ug/L  
RT: 3.117 min Scan# 646  
Delta R.T. -0.000 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

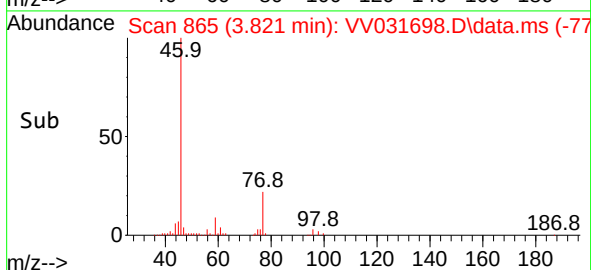
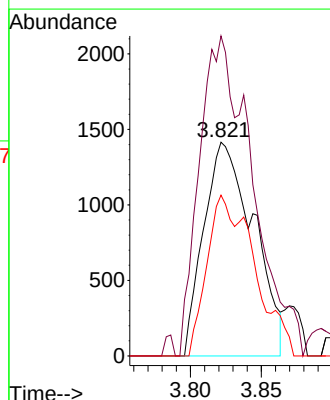
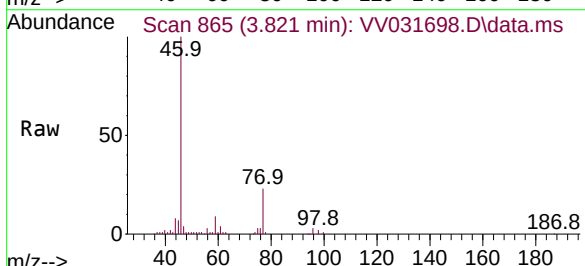
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

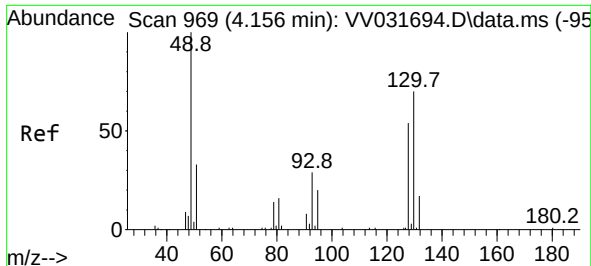
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 7341  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 33.6  | 23.4  | 43.6  |
| 83       | 15.3  | 9.4   | 17.4  |



#22  
cis-1,2-Dichloroethene  
Concen: 0.268 ug/L  
RT: 3.821 min Scan# 865  
Delta R.T. -0.000 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 3467  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 149.8 | 99.4  | 184.6 |
| 98       | 75.3  | 45.1  | 83.7  |

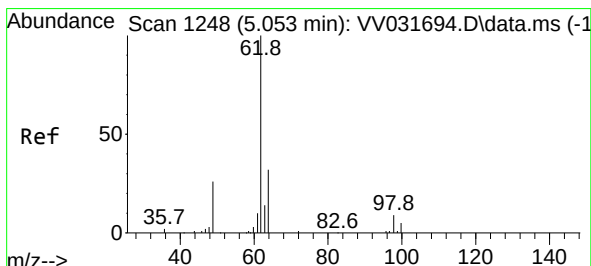
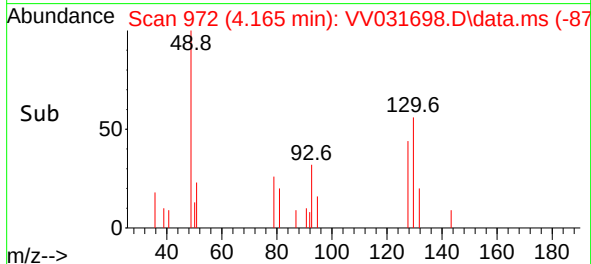
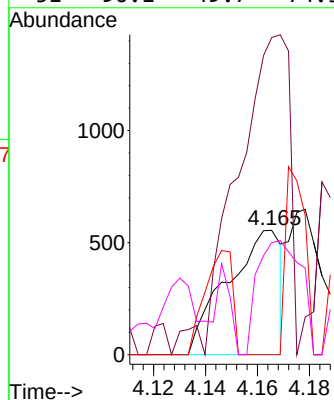
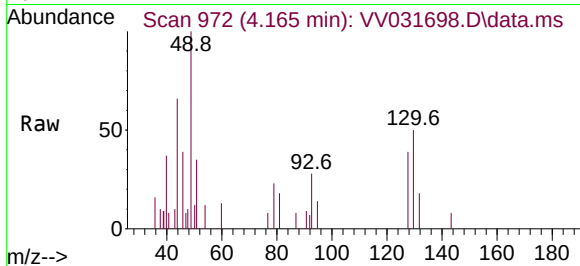




#23  
Bromochloromethane  
Concen: 0.122 ug/L  
RT: 4.165 min Scan# 91  
Delta R.T. 0.010 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

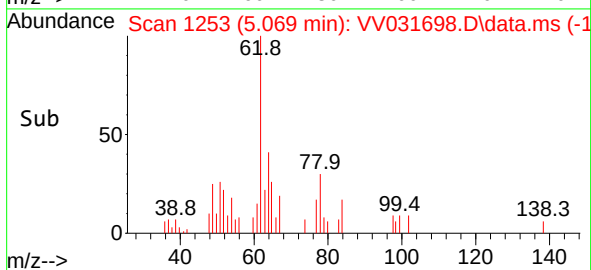
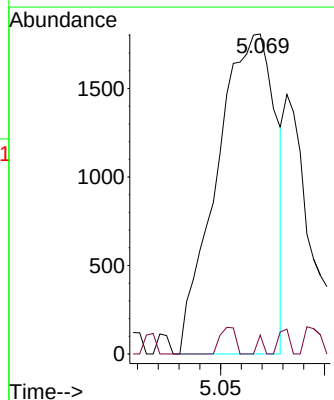
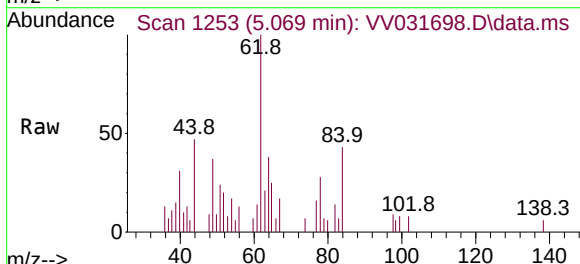
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

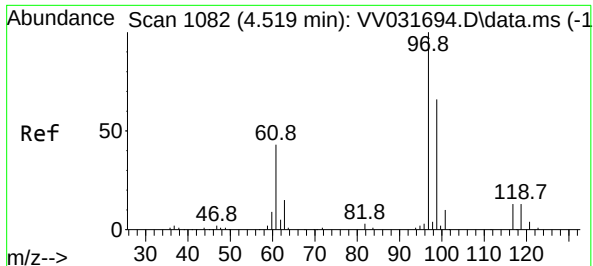
Tgt Ion:128 Resp: 792  
Ion Ratio Lower Upper  
128 100  
49 255.0 136.1 252.7#  
130 0.0 91.3 169.5#  
51 90.1 49.7 74.5#



#27  
1,2-Dichloroethane  
Concen: 0.200 ug/L  
RT: 5.069 min Scan# 1253  
Delta R.T. 0.016 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Tgt Ion: 62 Resp: 3545  
Ion Ratio Lower Upper  
62 100  
98 5.9 7.0 10.4#





#29

1,1,1-Trichloroethane

Concen: 0.257 ug/L

RT: 4.526 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

VBLK348

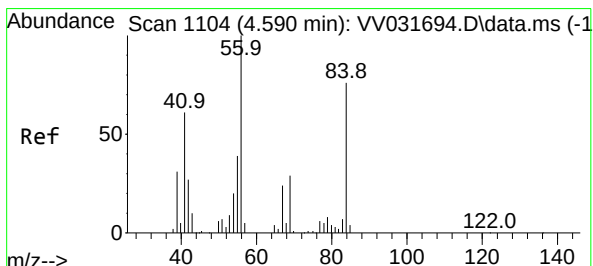
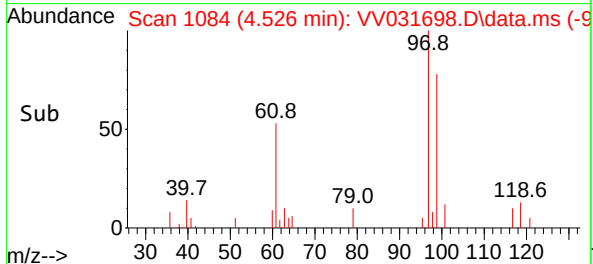
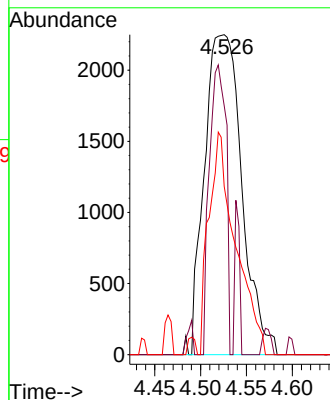
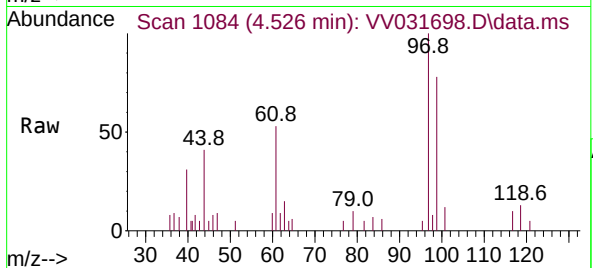
Tgt Ion: 97 Resp: 6393

Ion Ratio Lower Upper

97 100

99 40.1 50.4 75.6#

61 49.6 35.6 53.4



#30

Cyclohexane

Concen: 0.219 ug/L

RT: 4.593 min Scan# 1105

Delta R.T. 0.003 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

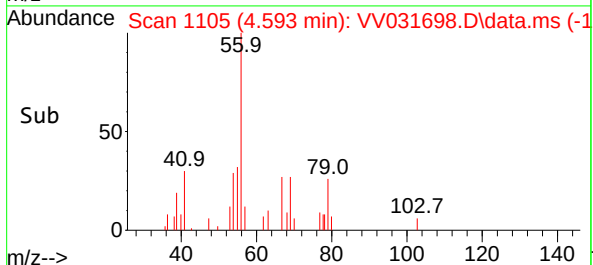
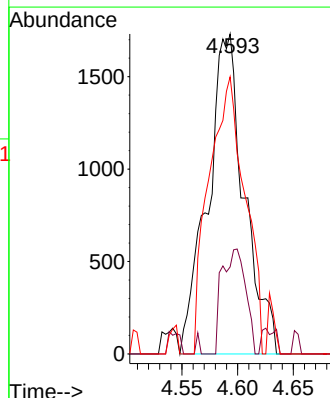
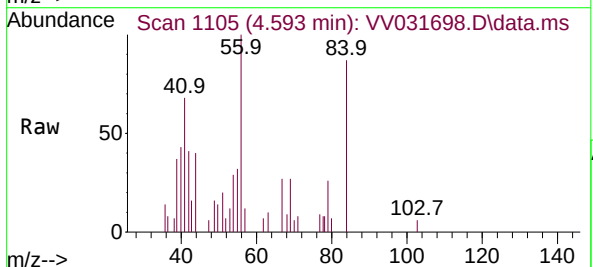
Tgt Ion: 56 Resp: 3965

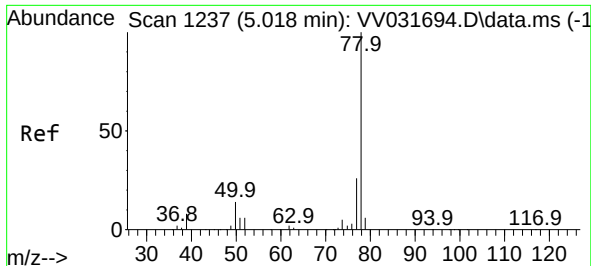
Ion Ratio Lower Upper

56 100

69 21.1 22.9 34.3#

84 84.9 62.7 94.1





#33

Benzene

Concen: 0.275 ug/L

RT: 5.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

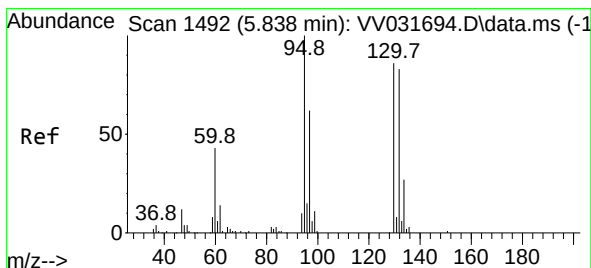
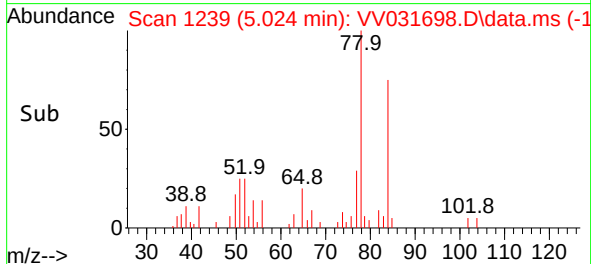
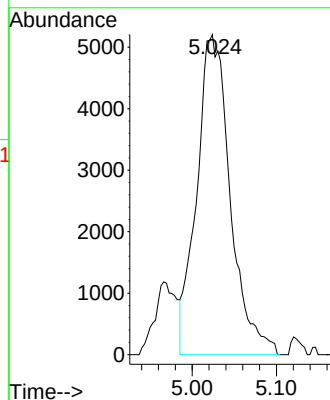
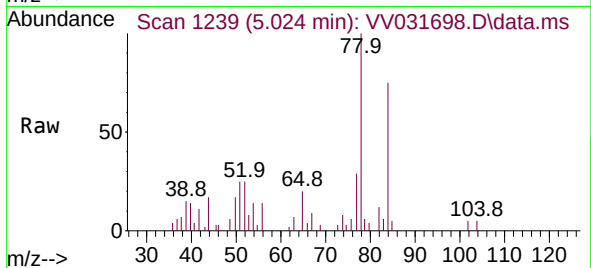
Instrument :

MSVOA\_V

ClientSampleId :

VBLK348

Tgt Ion: 78 Resp: 14383



#34

Trichloroethene

Concen: 0.302 ug/L

RT: 5.847 min Scan# 1495

Delta R.T. 0.010 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Tgt Ion: 95 Resp: 4482

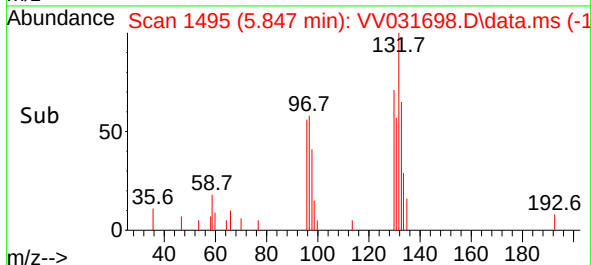
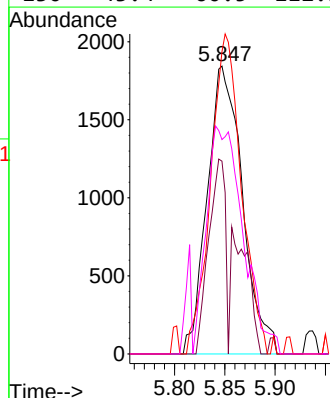
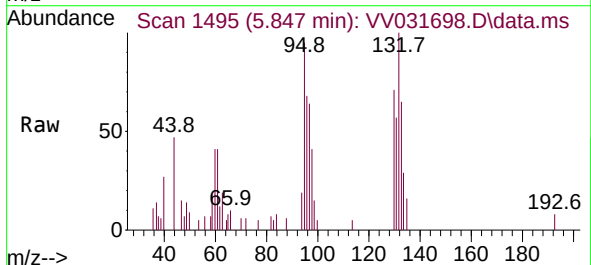
Ion Ratio Lower Upper

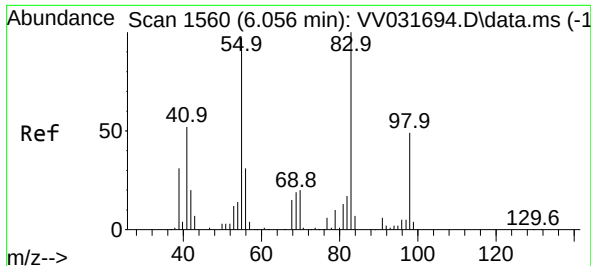
95 100

97 39.0 43.3 80.5#

132 61.2 58.3 108.3

130 43.4 60.5 112.5#

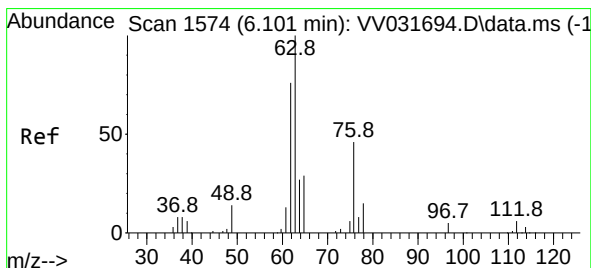
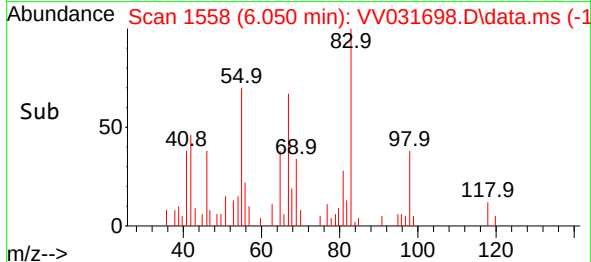
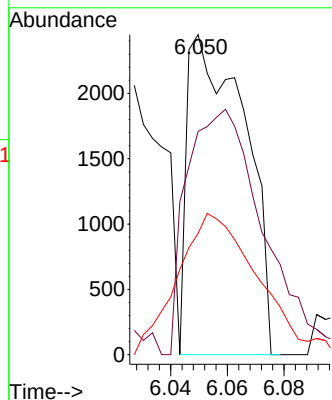
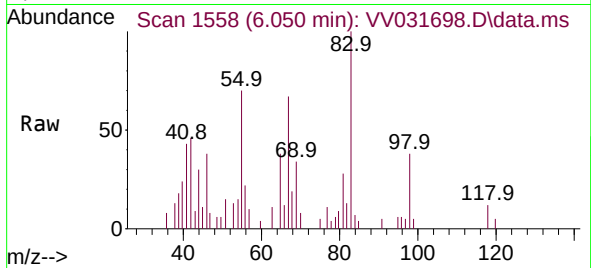




#35  
Methylcyclohexane  
Concen: 0.187 ug/L  
RT: 6.050 min Scan# 11  
Delta R.T. -0.007 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

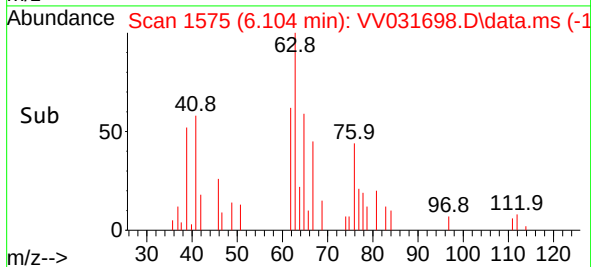
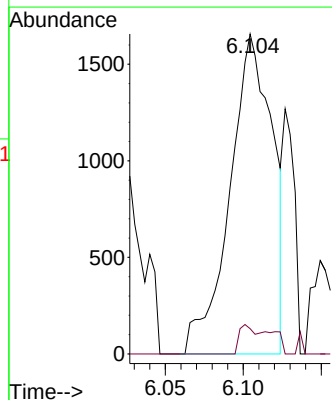
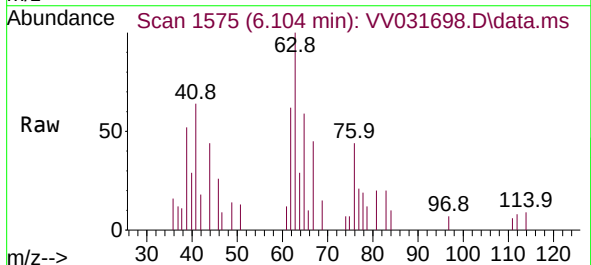
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

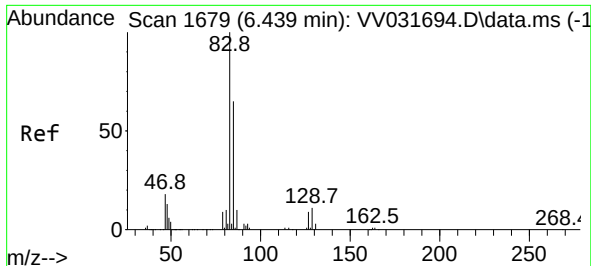
Tgt Ion: 83 Resp: 3444  
Ion Ratio Lower Upper  
83 100  
55 103.0 73.8 110.6  
98 61.7 35.1 52.7#



#37  
1,2-Dichloropropane  
Concen: 0.209 ug/L  
RT: 6.104 min Scan# 1575  
Delta R.T. 0.003 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Tgt Ion: 63 Resp: 3134  
Ion Ratio Lower Upper  
63 100  
112 3.8 1.4 2.2#





#38

Bromodichloromethane

Concen: 0.240 ug/L

RT: 6.445 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

VBLK348

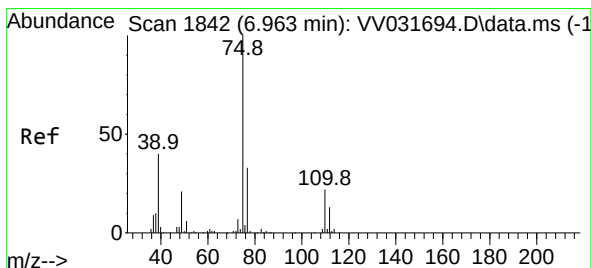
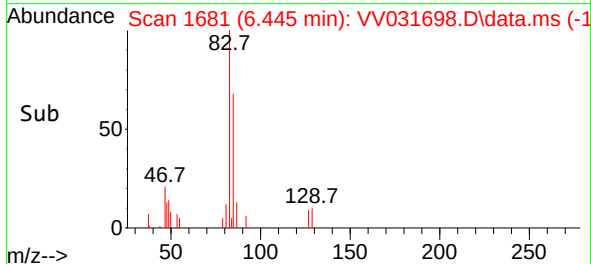
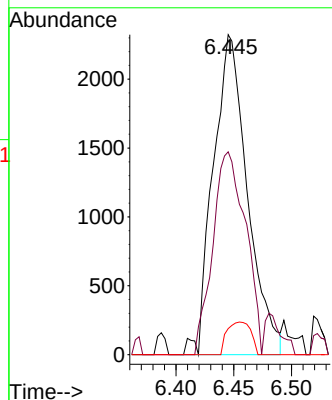
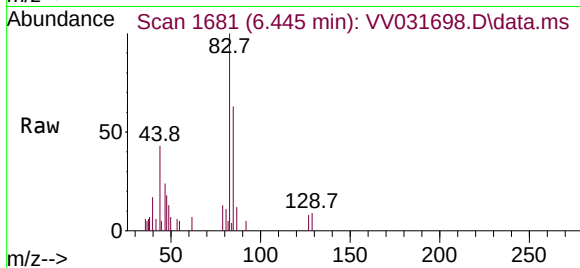
Tgt Ion: 83 Resp: 4791

Ion Ratio Lower Upper

83 100

85 63.4 45.5 84.5

127 8.1 6.9 10.3



#39

cis-1,3-Dichloropropene

Concen: 0.228 ug/L

RT: 6.969 min Scan# 1844

Delta R.T. 0.006 min

Lab File: VV031698.D

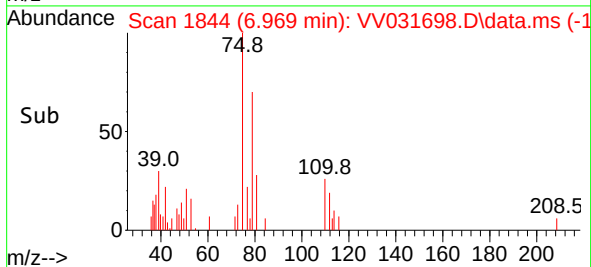
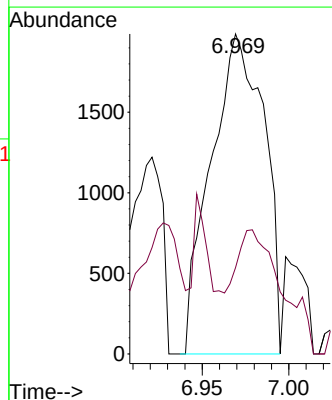
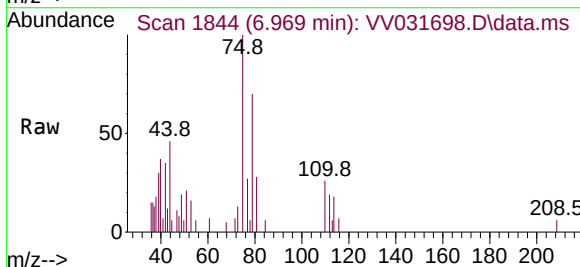
Acq: 13 Jul 2023 16:30

Tgt Ion: 75 Resp: 4255

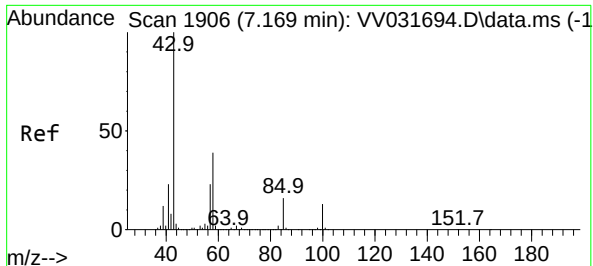
Ion Ratio Lower Upper

75 100

77 27.0 23.0 42.6







#40

4-Methyl-2-pentanone

Concen: 2.070 ug/L

RT: 7.175 min Scan# 1906

Delta R.T. 0.006 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

VBLK348

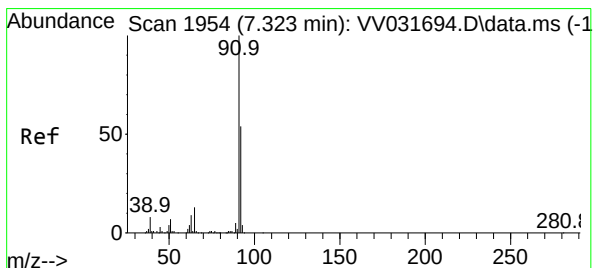
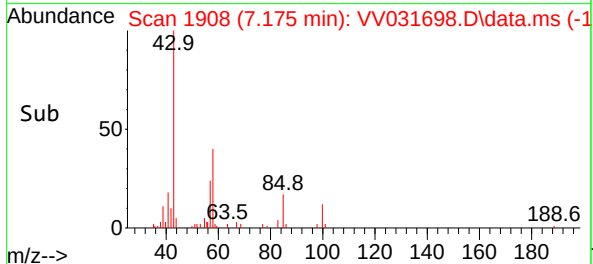
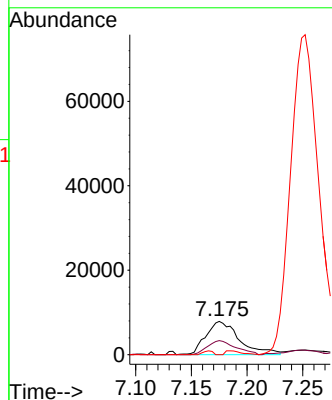
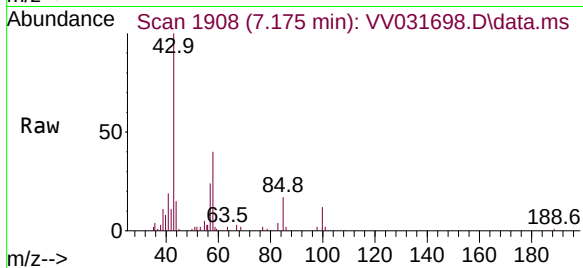
Tgt Ion: 43 Resp: 16612

Ion Ratio Lower Upper

43 100

58 35.5 30.3 45.5

100 0.0 9.7 14.5#



#42

Toluene

Concen: 0.263 ug/L

RT: 7.333 min Scan# 1957

Delta R.T. 0.010 min

Lab File: VV031698.D

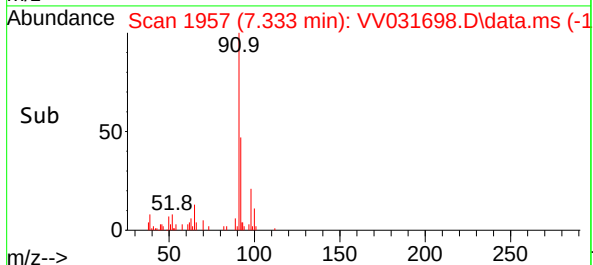
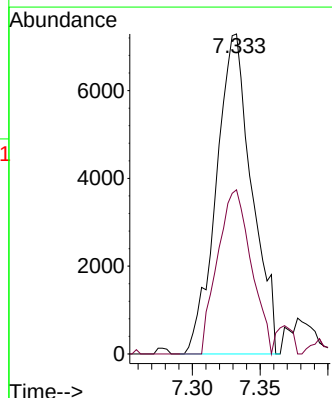
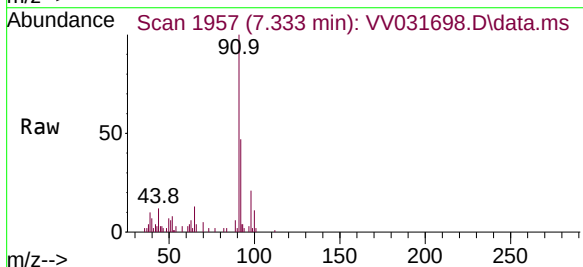
Acq: 13 Jul 2023 16:30

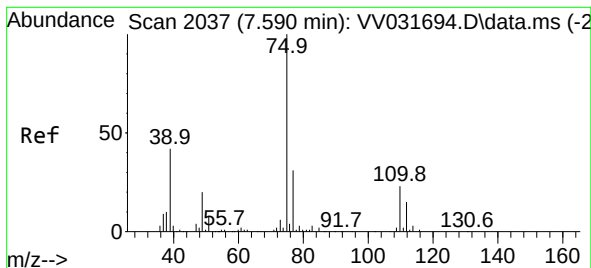
Tgt Ion: 91 Resp: 13300

Ion Ratio Lower Upper

91 100

92 51.3 38.1 70.7





#44

trans-1,3-Dichloropropene

Concen: 0.191 ug/L

RT: 7.599 min Scan# 2100

Delta R.T. 0.010 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

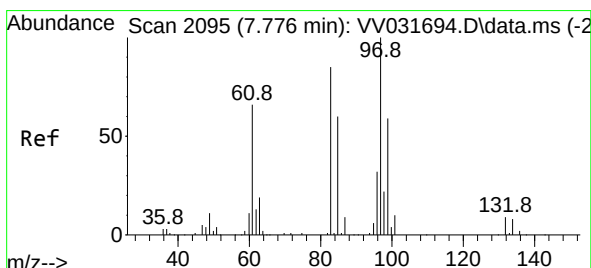
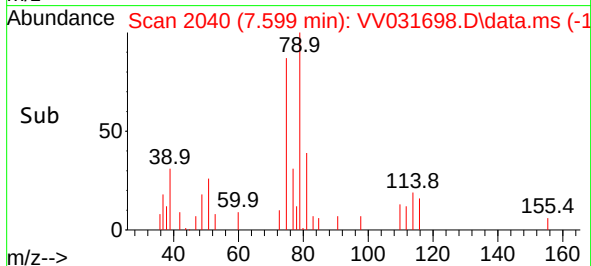
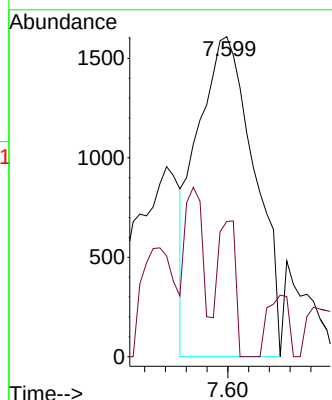
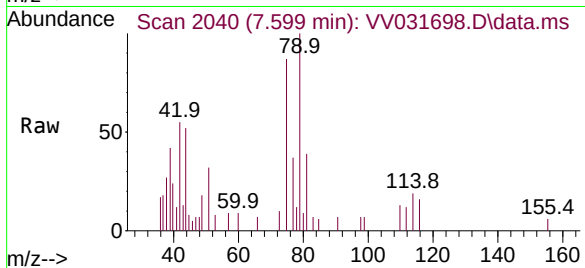
VBLK348

Tgt Ion: 75 Resp: 3119

Ion Ratio Lower Upper

75 100

77 42.3 21.7 40.3#



#45

1,1,2-Trichloroethane

Concen: 0.210 ug/L

RT: 7.792 min Scan# 2100

Delta R.T. 0.016 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Tgt Ion: 97 Resp: 2340

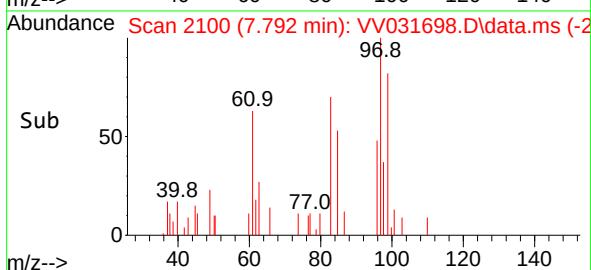
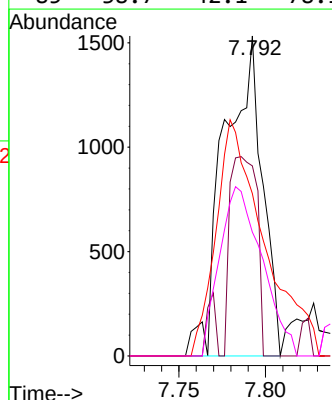
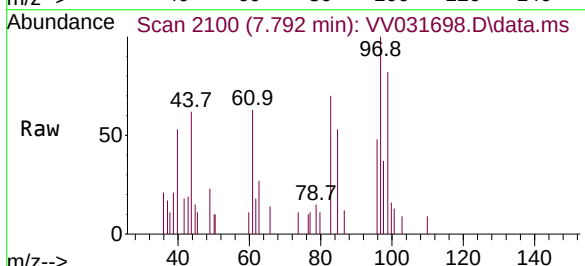
Ion Ratio Lower Upper

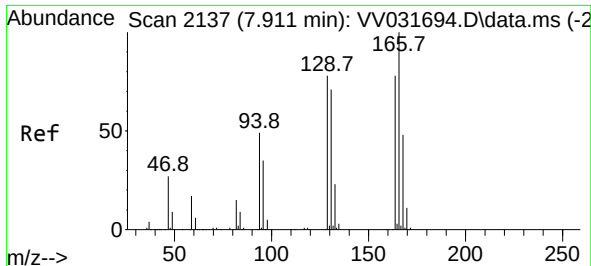
97 100

99 59.4 40.9 76.0

83 50.8 59.7 110.9#

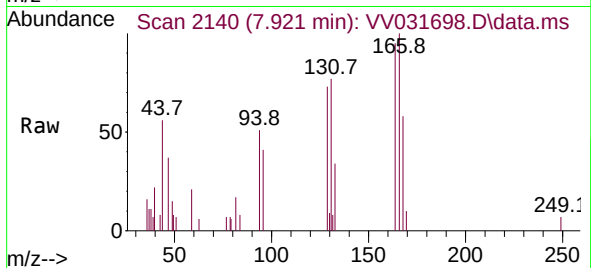
85 38.7 42.1 78.1#





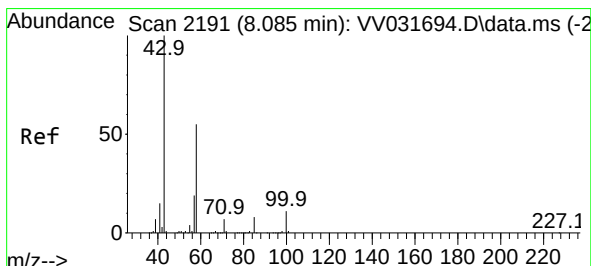
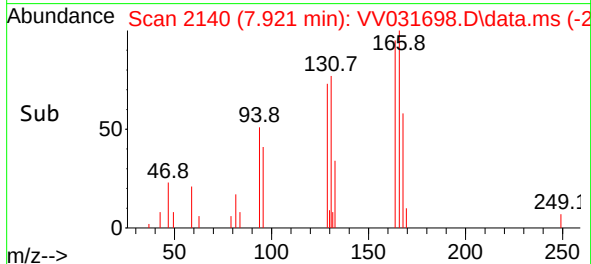
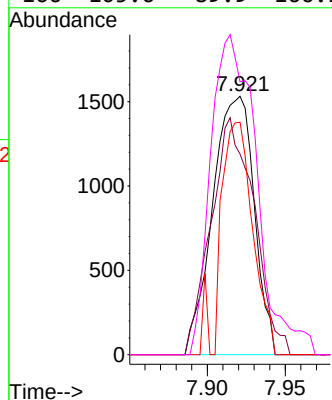
#47  
Tetrachloroethene  
Concen: 0.277 ug/L  
RT: 7.921 min Scan# 2140  
Delta R.T. 0.010 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348



Tgt Ion:164 Resp: 2833

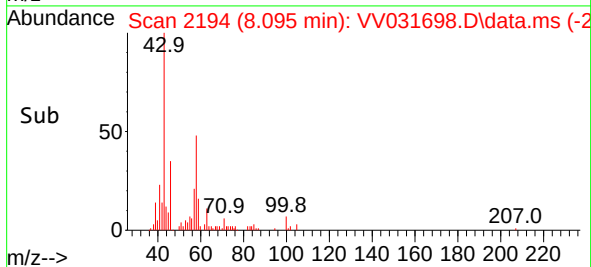
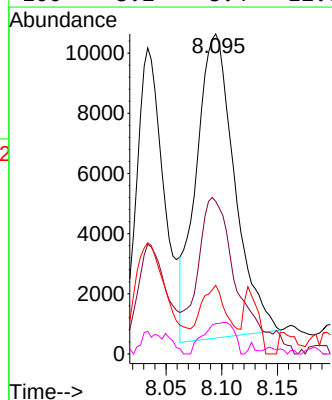
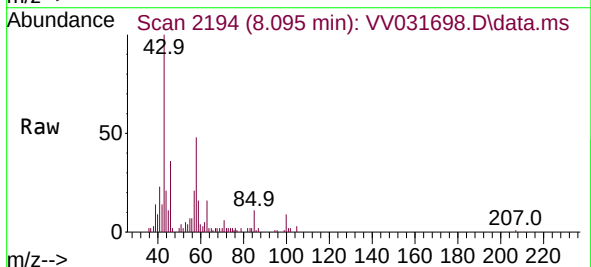
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 77.6  | 70.5  | 130.9 |
| 131 | 89.9  | 64.0  | 118.8 |
| 166 | 105.6 | 89.9  | 166.9 |

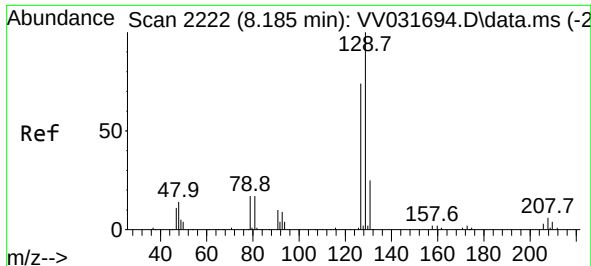


#48  
2-Hexanone  
Concen: 4.126 ug/L  
RT: 8.095 min Scan# 2194  
Delta R.T. 0.010 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Tgt Ion: 43 Resp: 24260

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 53.1  | 42.6  | 64.0  |
| 57  | 16.0  | 14.6  | 21.8  |
| 100 | 8.2   | 8.4   | 12.6  |





#49

Dibromochloromethane

Concen: 0.164 ug/L

RT: 8.188 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

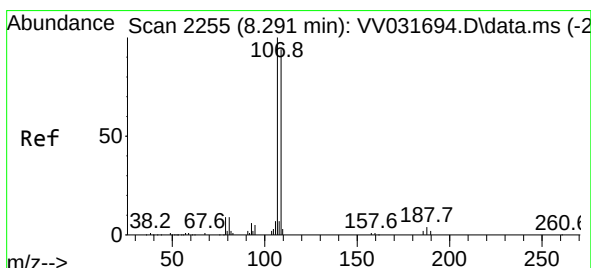
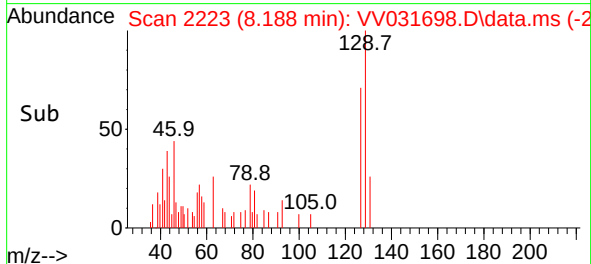
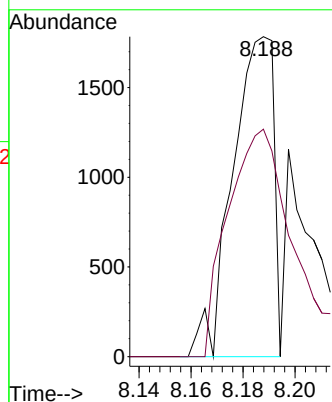
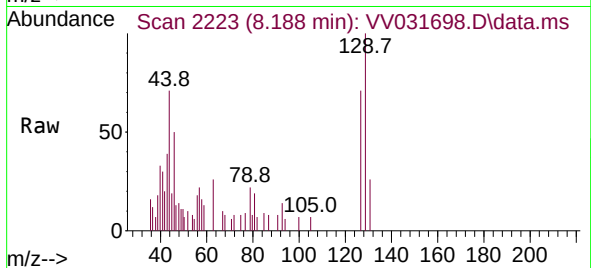
VBLK348

Tgt Ion:129 Resp: 1959

Ion Ratio Lower Upper

129 100

127 71.1 51.7 96.1



#50

1,2-Dibromoethane

Concen: 0.234 ug/L

RT: 8.294 min Scan# 2256

Delta R.T. 0.003 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

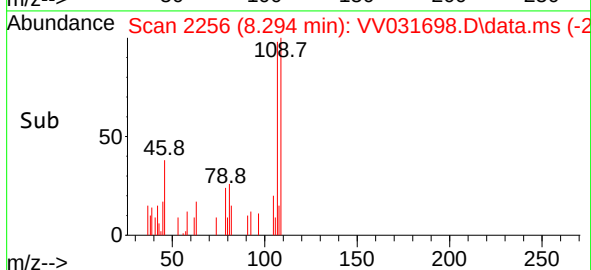
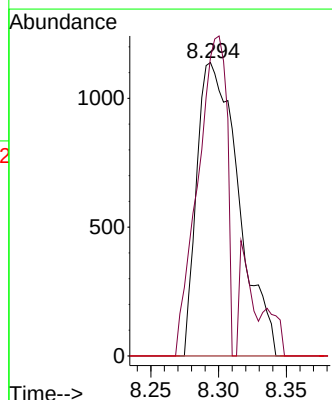
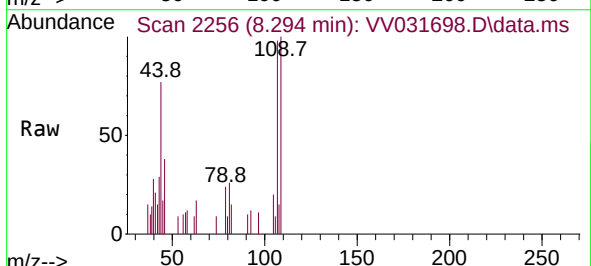
Tgt Ion:107 Resp: 2438

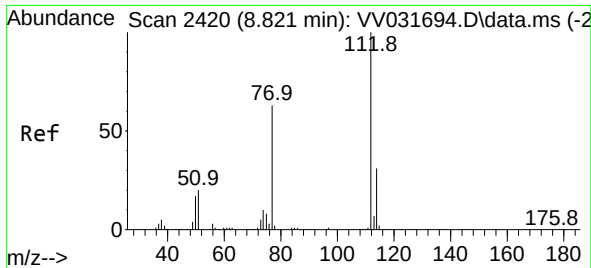
Ion Ratio Lower Upper

107 100

109 101.7 67.6 125.6

188 0.0 3.0 4.6#

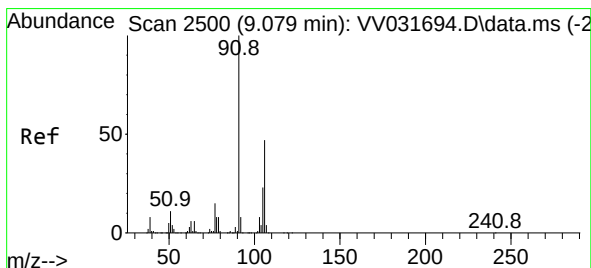
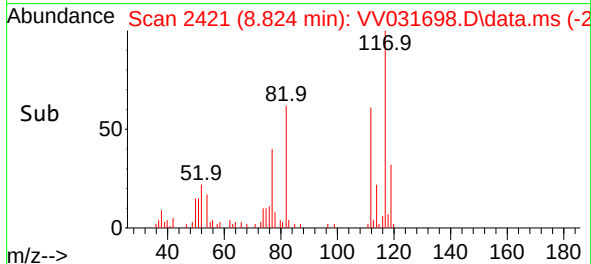
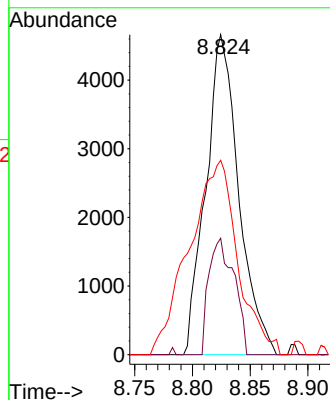
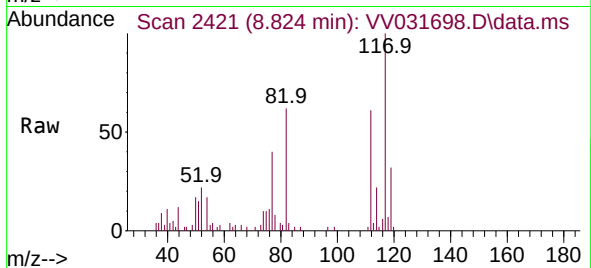




#51  
Chlorobenzene  
Concen: 0.278 ug/L  
RT: 8.824 min Scan# 2420  
Delta R.T. 0.003 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

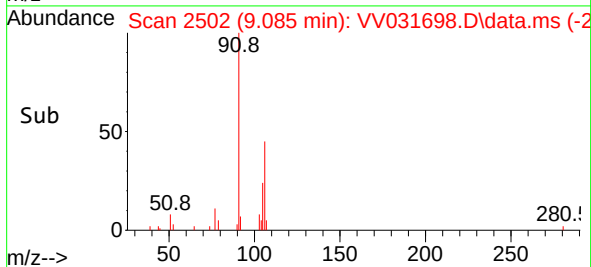
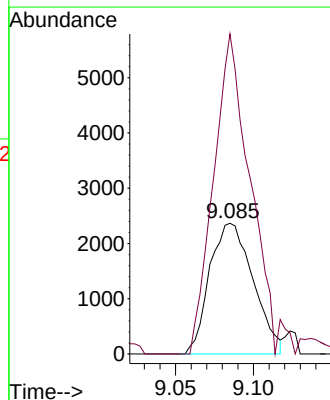
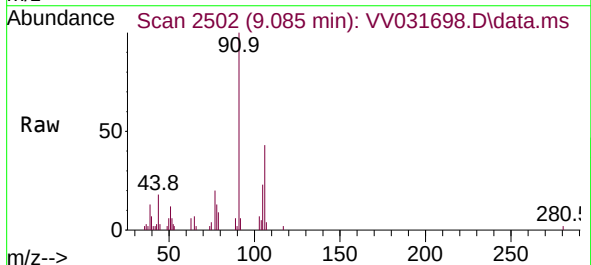
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

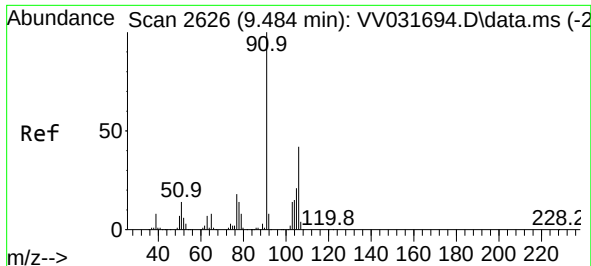
Tgt Ion:112 Resp: 9259  
Ion Ratio Lower Upper  
112 100  
114 36.4 21.6 40.2  
77 60.8 54.2 81.4



#53  
m,p-Xylene  
Concen: 0.248 ug/L  
RT: 9.085 min Scan# 2502  
Delta R.T. 0.006 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Tgt Ion:106 Resp: 4596  
Ion Ratio Lower Upper  
106 100  
91 244.7 149.9 278.3





#54

o-Xylene

Concen: 0.177 ug/L

RT: 9.490 min Scan# 2

Delta R.T. 0.006 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

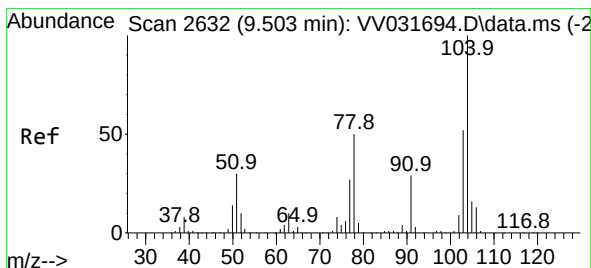
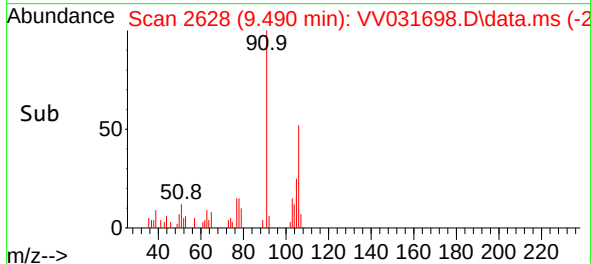
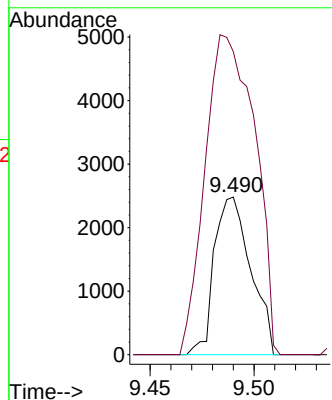
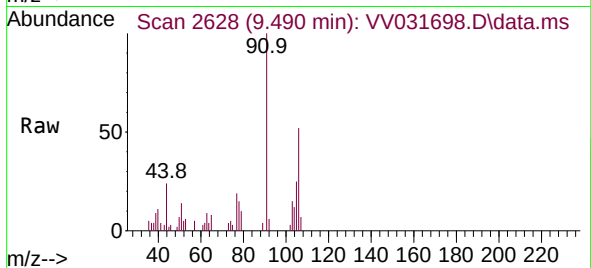
VBLK348

Tgt Ion:106 Resp: 3032

Ion Ratio Lower Upper

106 100

91 192.3 166.7 309.5



#55

Styrene

Concen: 0.210 ug/L

RT: 9.513 min Scan# 2635

Delta R.T. 0.010 min

Lab File: VV031698.D

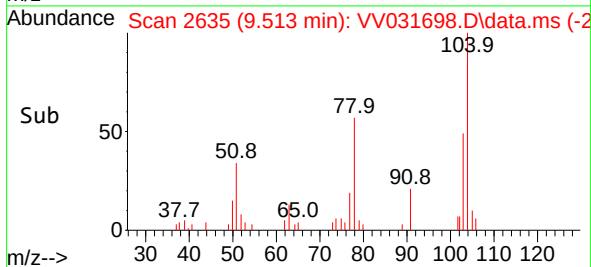
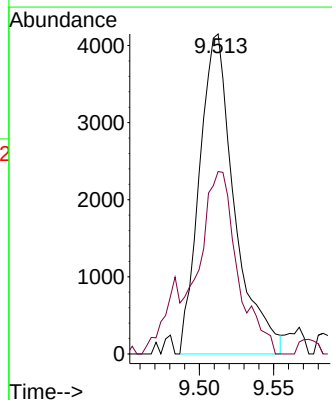
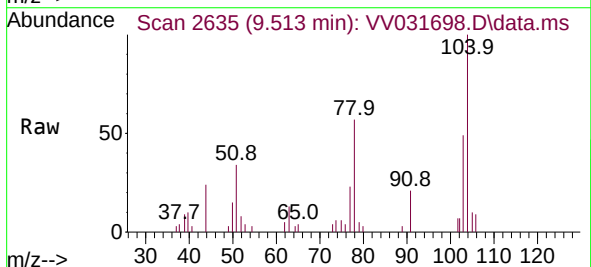
Acq: 13 Jul 2023 16:30

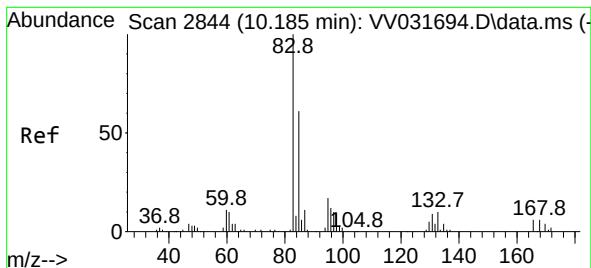
Tgt Ion:104 Resp: 6808

Ion Ratio Lower Upper

104 100

78 57.0 35.3 65.5

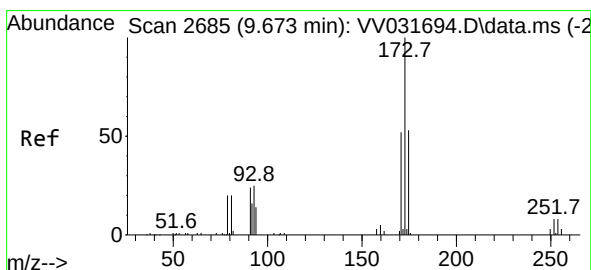
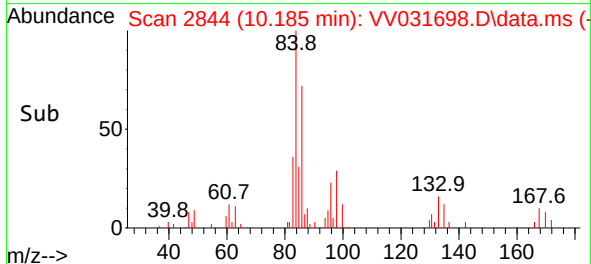
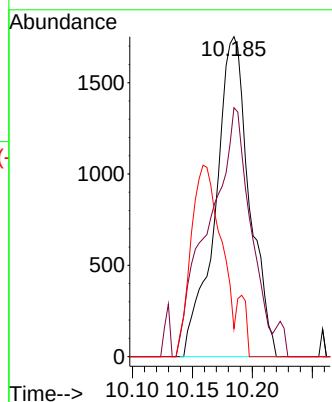
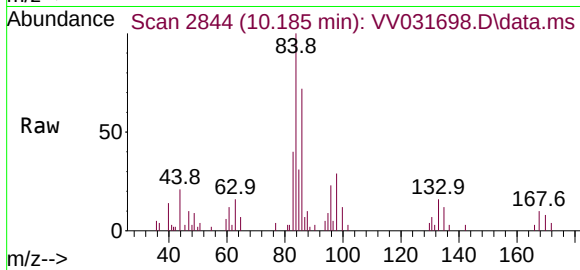




#57  
1,1,2,2-Tetrachloroethane  
Concen: 0.294 ug/L  
RT: 10.185 min Scan# 2844  
Delta R.T. -0.000 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

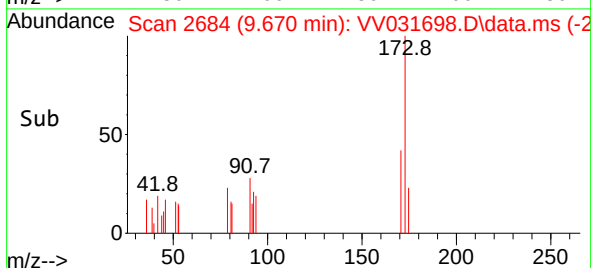
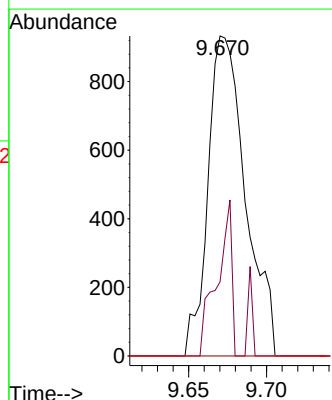
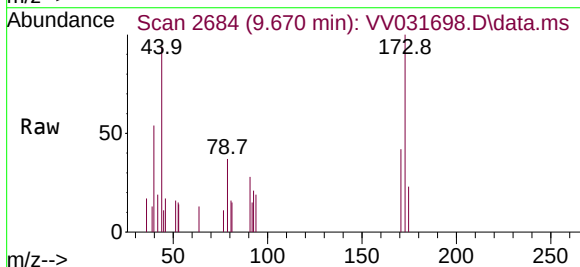
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

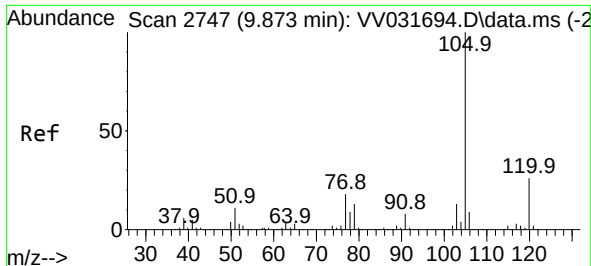
Tgt Ion: 83 Resp: 3473  
Ion Ratio Lower Upper  
83 100  
85 77.8 48.6 90.2  
131 8.7 7.0 10.6



#59  
Bromoform  
Concen: 0.265 ug/L  
RT: 9.670 min Scan# 2684  
Delta R.T. -0.003 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Tgt Ion: 173 Resp: 1565  
Ion Ratio Lower Upper  
173 100  
175 19.2 40.2 60.4#  
254 0.0 6.4 9.6#

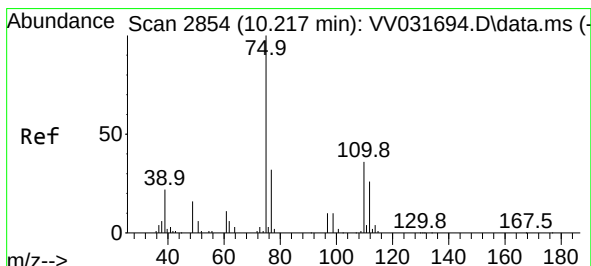
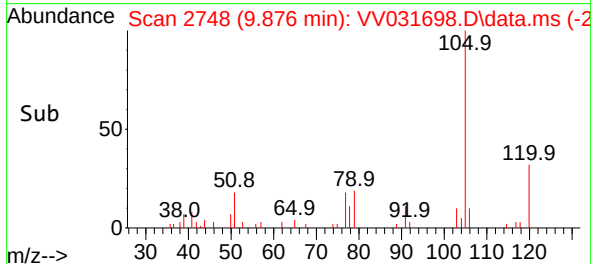
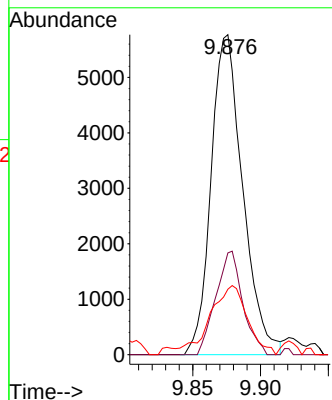
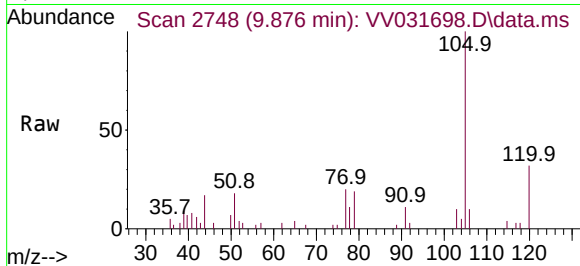




#60  
Isopropylbenzene  
Concen: 0.240 ug/L  
RT: 9.876 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

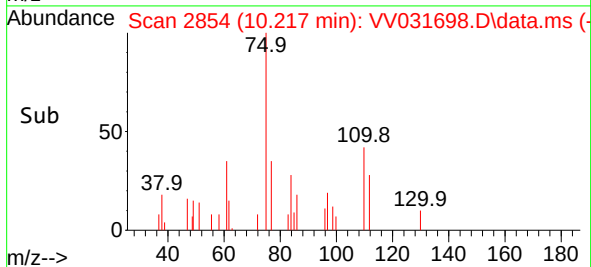
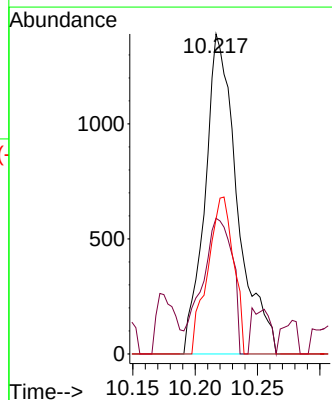
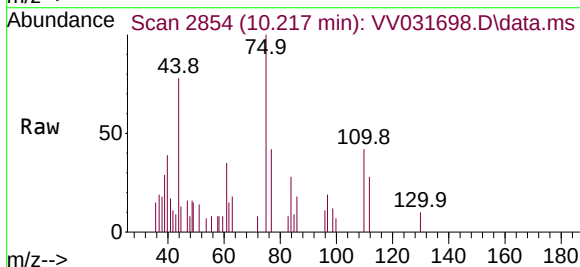
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

Tgt Ion:105 Resp: 9387  
Ion Ratio Lower Upper  
105 100  
120 27.5 20.0 30.0  
77 25.4 14.2 21.4#

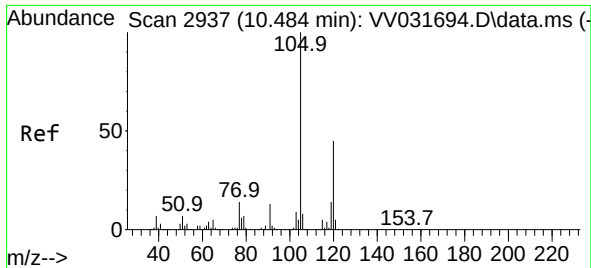


#61  
1,2,3-Trichloropropane  
Concen: 0.320 ug/L  
RT: 10.217 min Scan# 2854  
Delta R.T. -0.000 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Tgt Ion: 75 Resp: 2510  
Ion Ratio Lower Upper  
75 100  
77 39.4 25.9 38.9#  
110 39.2 28.6 42.8



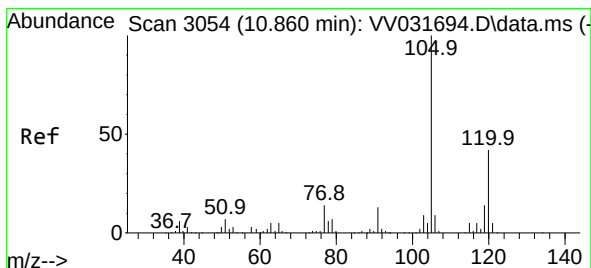
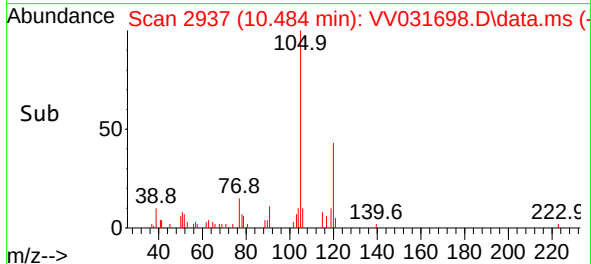
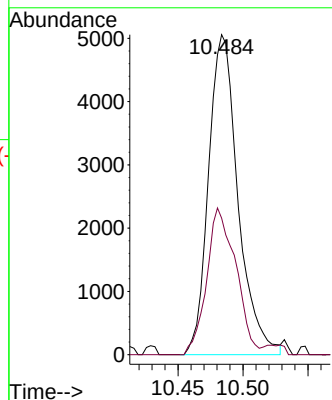
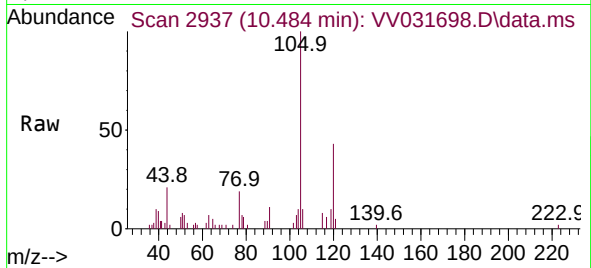




#62  
1,3,5-Trimethylbenzene  
Concen: 0.253 ug/L  
RT: 10.484 min Scan# 2937  
Delta R.T. -0.000 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

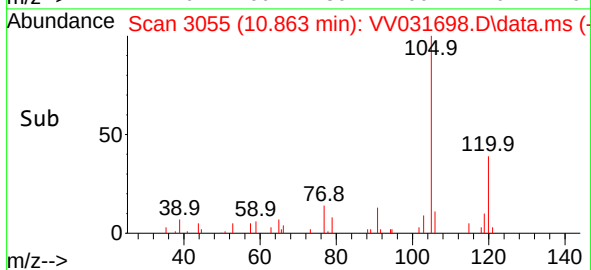
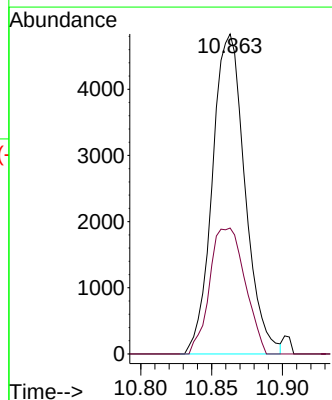
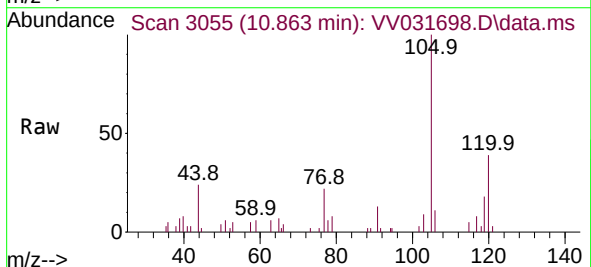
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

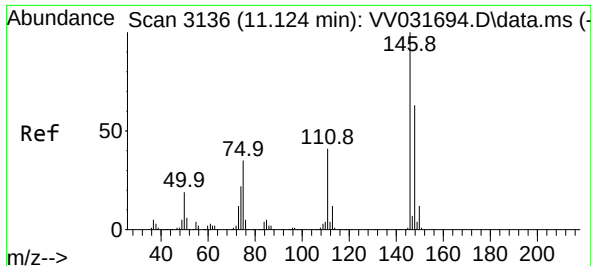
Tgt Ion:105 Resp: 7976  
Ion Ratio Lower Upper  
105 100  
120 45.3 36.2 54.4



#63  
1,2,4-Trimethylbenzene  
Concen: 0.245 ug/L  
RT: 10.863 min Scan# 3055  
Delta R.T. 0.003 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

Tgt Ion:105 Resp: 7735  
Ion Ratio Lower Upper  
105 100  
120 42.6 33.4 50.0

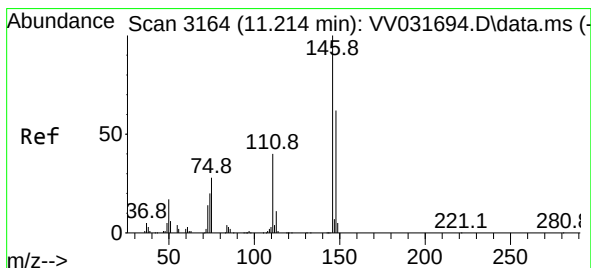
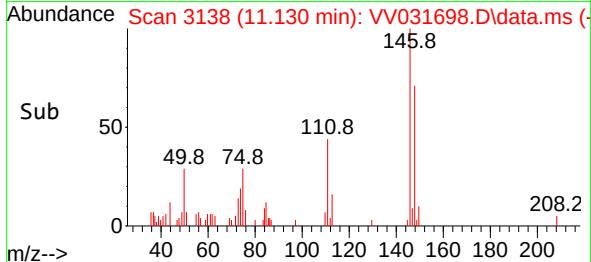
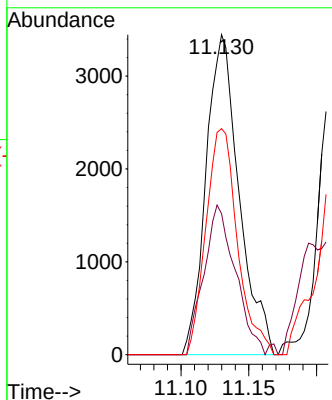
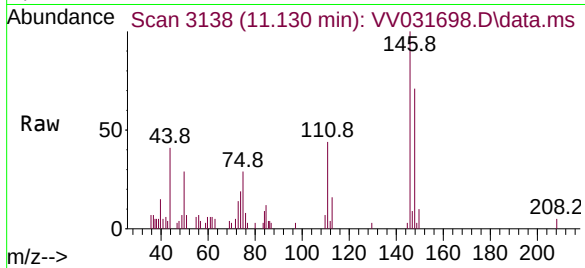




#64  
1,3-Dichlorobenzene  
Concen: 0.277 ug/L  
RT: 11.130 min Scan# 3136  
Delta R.T. 0.006 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

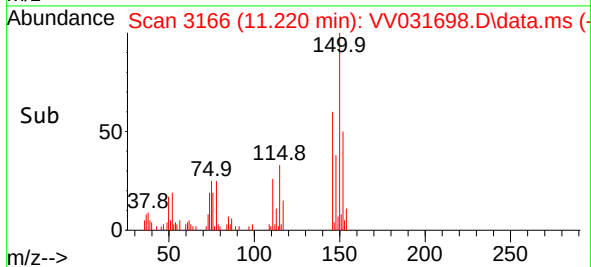
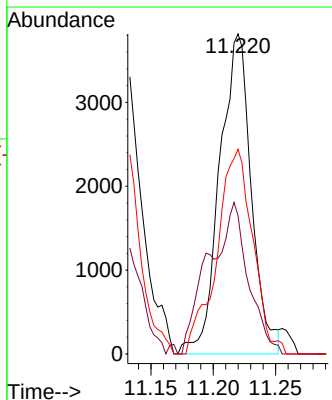
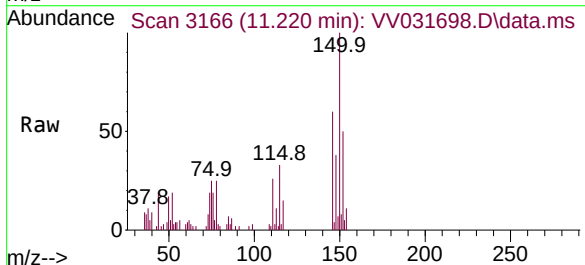
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

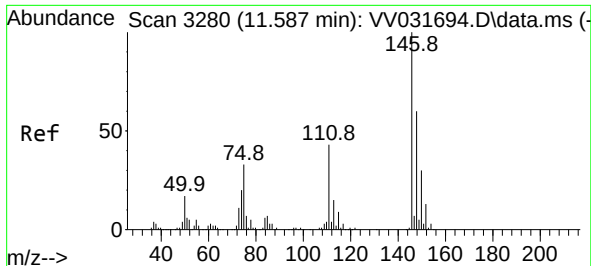
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 5841      |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 44.1  | 28.8 53.4 |
| 148         | 73.9  | 43.8 81.4 |



#65  
1,4-Dichlorobenzene  
Concen: 0.302 ug/L  
RT: 11.220 min Scan# 3166  
Delta R.T. 0.006 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 6734      |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 43.2  | 28.2 52.4 |
| 148         | 63.9  | 43.6 81.0 |





#67

1,2-Dichlorobenzene

Concen: 0.336 ug/L

RT: 11.586 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Instrument :

MSVOA\_V

ClientSampleId :

VBLK348

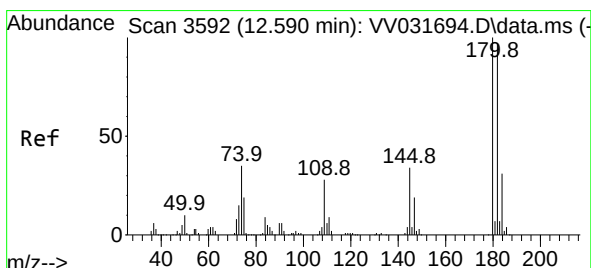
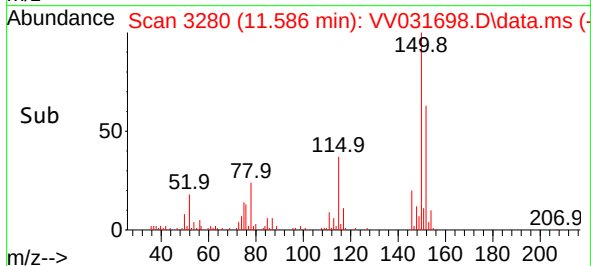
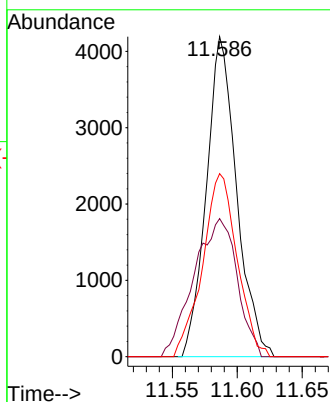
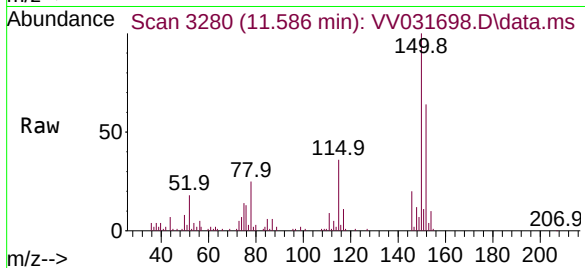
Tgt Ion:146 Resp: 6801

Ion Ratio Lower Upper

146 100

111 43.1 34.2 51.4

148 57.2 48.1 72.1



#69

1,3,5-Trichlorobenzene

Concen: 0.317 ug/L

RT: 12.593 min Scan# 3593

Delta R.T. 0.003 min

Lab File: VV031698.D

Acq: 13 Jul 2023 16:30

Tgt Ion:180 Resp: 4895

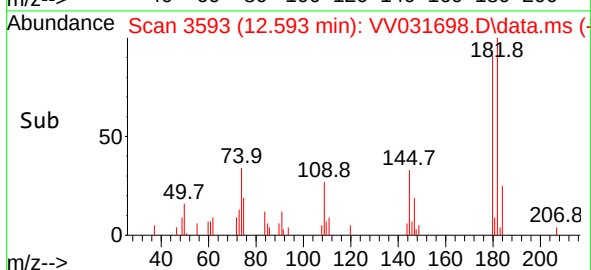
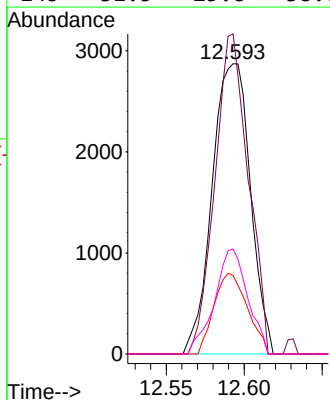
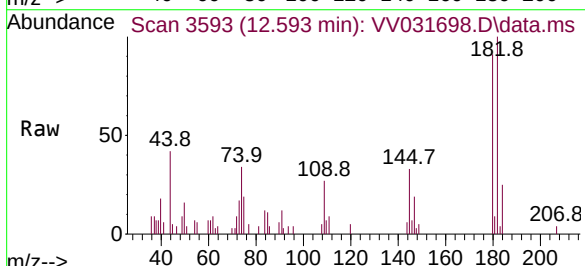
Ion Ratio Lower Upper

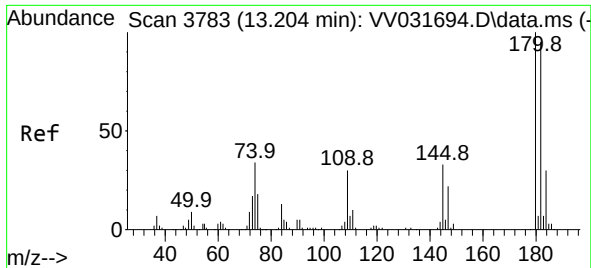
180 100

182 96.1 78.3 117.5

184 24.2 24.5 36.7#

145 31.5 25.8 38.6

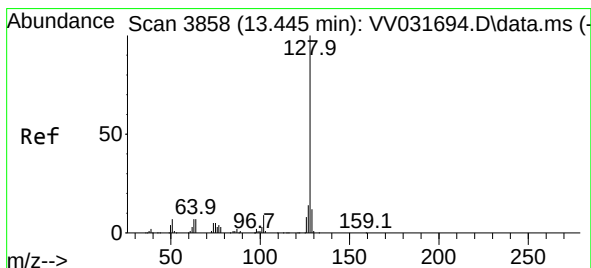
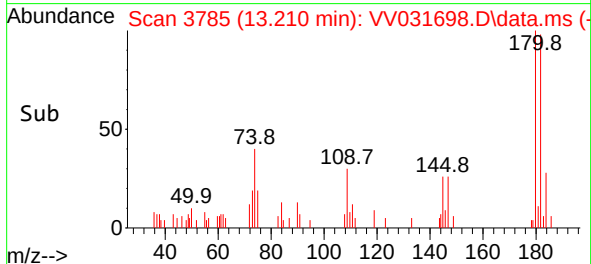
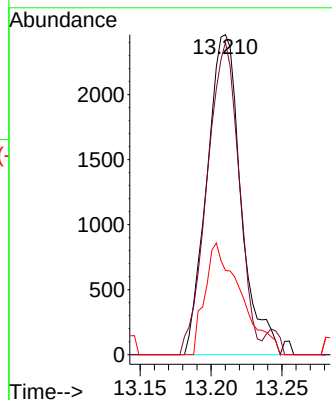
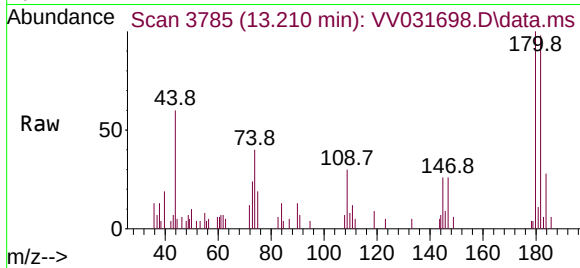




#70  
1,2,4-trichlorobenzene  
Concen: 0.335 ug/L  
RT: 13.210 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

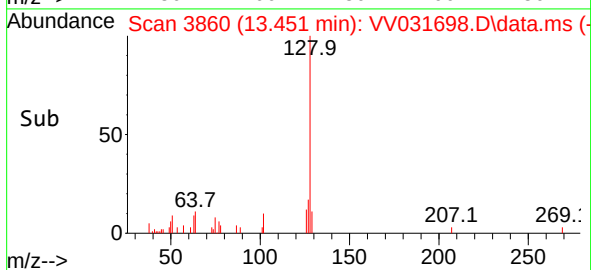
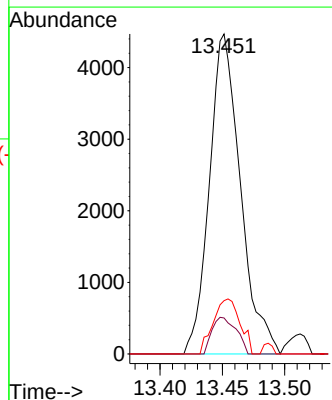
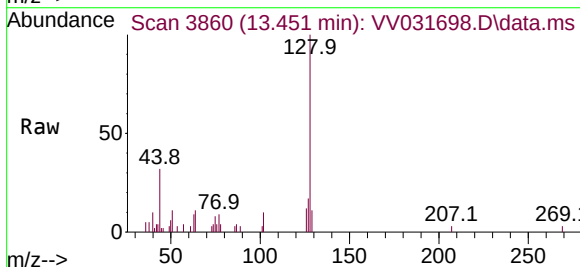
Instrument :  
MSVOA\_V  
ClientSampleId :  
VBLK348

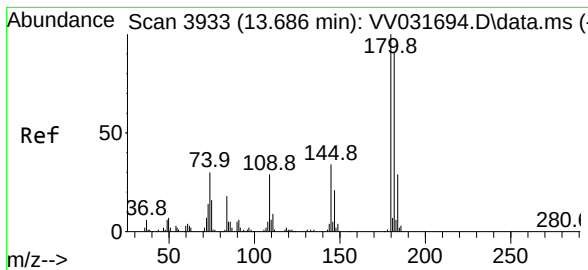
Tgt Ion:180 Resp: 4099  
Ion Ratio Lower Upper  
180 100  
182 91.9 76.0 114.0  
145 36.9 26.2 39.4



#71  
Naphthalene  
Concen: 0.393 ug/L  
RT: 13.451 min Scan# 3860  
Delta R.T. 0.006 min  
Lab File: VV031698.D  
Acq: 13 Jul 2023 16:30

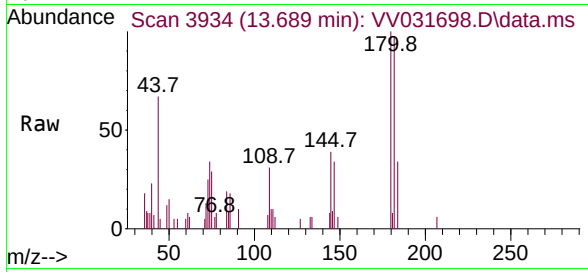
Tgt Ion:128 Resp: 7757  
Ion Ratio Lower Upper  
128 100  
129 8.9 9.1 13.7#  
127 14.8 11.6 17.4





#72  
 1,2,3-Trichlorobenzene  
 Concen: 0.293 ug/L  
 RT: 13.689 min Scan# 3934  
 Delta R.T. 0.003 min  
 Lab File: VV031698.D  
 Acq: 13 Jul 2023 16:30

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VBLK348



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 3313  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 99.0  | 74.6  | 111.8 |
| 145       | 46.0  | 27.4  | 41.0# |

