

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW031423\  
 Data File : VW030187.D  
 Acq On : 14 Mar 2023 10:54  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005300

Quant Time: Mar 15 01:33:24 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR022323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Mar 14 03:44:35 2023  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|--------|----------|
| -----                         |           |       |          |          |        |          |
| Internal Standards            |           |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.542     | 114   | 140067   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.793     | 117   | 138035   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.194    | 152   | 86838    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |           |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.282     | 65    | 50548    | 5.577    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 40 - 130 | Recovery | =      | 111.600% |
| 7) Chloroethane-d5            | 1.539     | 69    | 44584    | 5.241    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 65 - 130 | Recovery | =      | 104.800% |
| 11) 1,1-Dichloroethene-d2     | 2.066     | 63    | 100754   | 5.407    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 60 - 125 | Recovery | =      | 108.200% |
| 20) 2-Butanone-d5             | 3.838     | 46    | 77391    | 46.316   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000    | Range | 40 - 130 | Recovery | =      | 92.640%  |
| 24) Chloroform-d              | 4.259     | 84    | 97924    | 5.289    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 70 - 125 | Recovery | =      | 105.800% |
| 26) 1,2-Dichloroethane-d4     | 4.953     | 65    | 40969    | 5.421    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 70 - 130 | Recovery | =      | 108.400% |
| 32) Benzene-d6                | 4.970     | 84    | 182917   | 4.925    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 70 - 125 | Recovery | =      | 98.400%  |
| 36) 1,2-Dichloropropane-d6    | 5.998     | 67    | 53958    | 4.829    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 60 - 140 | Recovery | =      | 96.600%  |
| 41) Toluene-d8                | 7.252     | 98    | 179560   | 5.100    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 70 - 130 | Recovery | =      | 102.000% |
| 43) trans-1,3-Dichloroprop... | 7.561     | 79    | 20595    | 5.387    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 55 - 130 | Recovery | =      | 107.800% |
| 46) 2-Hexanone-d5             | 8.037     | 63    | 74313    | 46.986   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 45 - 130 | Recovery | =      | 93.980%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.162    | 84    | 43234    | 5.439    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 65 - 120 | Recovery | =      | 108.800% |
| 66) 1,2-Dichlorobenzene-d4    | 11.571    | 152   | 66282    | 4.511    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000     | Range | 80 - 120 | Recovery | =      | 90.200%  |
| Target Compounds              |           |       |          |          |        |          |
|                               |           |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.108     | 85    | 55163    | 4.840    | ug/L   | 97       |
| 3) Chloromethane              | 1.217     | 50    | 76124    | 4.239    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.285     | 62    | 56470    | 4.732    | ug/L   | 100      |
| 6) Bromomethane               | 1.494     | 94    | 12455    | 5.814    | ug/L   | 99       |
| 8) Chloroethane               | 1.555     | 64    | 35813    | 4.925    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.719     | 101   | 87800    | 5.128    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.073     | 101   | 56232    | 5.295    | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.076     | 96    | 48468    | 5.156    | ug/L   | 96       |
| 13) Acetone                   | 2.166     | 43    | 61395    | 49.712   | ug/L # | 62       |
| 14) Carbon disulfide          | 2.246     | 76    | 110993   | 4.413    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.391     | 43    | 13839    | 4.798    | ug/L   | 97       |
| 16) Methylene chloride        | 2.455     | 84    | 50021    | 4.356    | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 2.712     | 73    | 88667    | 4.824    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 2.703     | 96    | 42886    | 4.796    | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.121     | 63    | 86246    | 5.178    | ug/L   | 98       |
| 21) 2-Butanone                | 3.915     | 43    | 79106    | 47.627   | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 3.828     | 96    | 46026    | 4.657    | ug/L   | 98       |
| 23) Bromochloromethane        | 4.163     | 128   | 22835    | 5.407    | ug/L   | 96       |
| 25) Chloroform                | 4.288     | 83    | 93620    | 5.403    | ug/L   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW031423\  
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 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

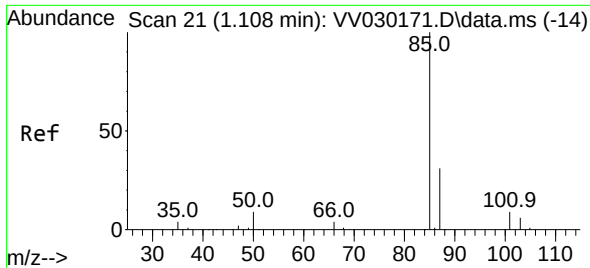
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005300

Quant Time: Mar 15 01:33:24 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR022323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Mar 14 03:44:35 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.053  | 62   | 48845    | 5.389  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 4.523  | 97   | 83298    | 5.137  | ug/L  | 99       |
| 30) Cyclohexane               | 4.597  | 56   | 57106    | 4.076  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.744  | 117  | 74585    | 5.117  | ug/L  | 99       |
| 33) Benzene                   | 5.021  | 78   | 182346   | 4.837  | ug/L  | 100      |
| 34) Trichloroethene           | 5.841  | 95   | 49098    | 4.648  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.063  | 83   | 66386    | 4.152  | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.101  | 63   | 49019    | 5.111  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.442  | 83   | 63858    | 5.216  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 6.963  | 75   | 64916    | 4.624  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.169  | 43   | 210877   | 53.285 | ug/L  | 98       |
| 42) Toluene                   | 7.323  | 91   | 204638   | 5.012  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene | 7.590  | 75   | 54679    | 4.989  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.777  | 97   | 36046    | 5.253  | ug/L  | 96       |
| 47) Tetrachloroethene         | 7.915  | 164  | 42529    | 4.690  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.088  | 43   | 154353   | 54.480 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.185  | 129  | 44474    | 5.538  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.291  | 107  | 32711    | 5.109  | ug/L  | 96       |
| 51) Chlorobenzene             | 8.821  | 112  | 133735   | 4.857  | ug/L  | 99       |
| 52) Ethylbenzene              | 8.953  | 91   | 209597   | 4.717  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.082  | 106  | 82227    | 4.815  | ug/L  | 97       |
| 54) o-Xylene                  | 9.487  | 106  | 78669    | 4.823  | ug/L  | 100      |
| 55) Styrene                   | 9.503  | 104  | 140684   | 5.186  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.188 | 83   | 43414    | 5.656  | ug/L  | 100      |
| 59) Bromoform                 | 9.674  | 173  | 26918    | 5.172  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.876  | 105  | 221980   | 4.443  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.220 | 75   | 28178    | 4.848  | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.487 | 105  | 173513   | 4.228  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.860 | 105  | 182673   | 4.351  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.127 | 146  | 120889   | 4.647  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.217 | 146  | 122770   | 4.677  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 11.587 | 146  | 110646   | 4.817  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.374 | 75   | 6239     | 4.806  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.593 | 180  | 93281    | 4.361  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.207 | 180  | 72437    | 4.181  | ug/L  | 98       |
| 71) Naphthalene               | 13.448 | 128  | 90142    | 3.981  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.693 | 180  | 60735    | 4.258  | ug/L  | 99       |

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

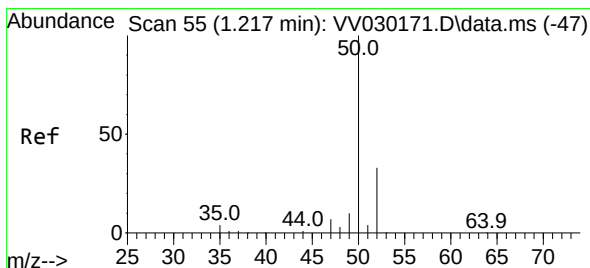
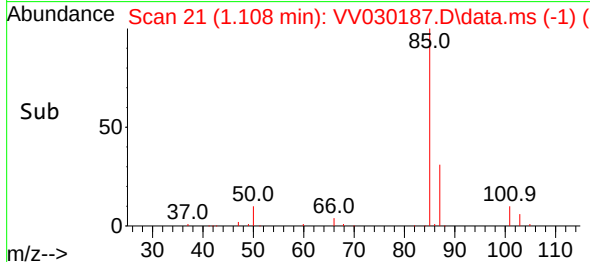
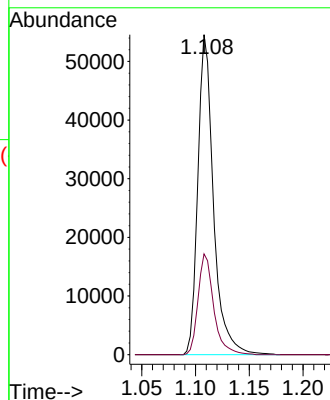
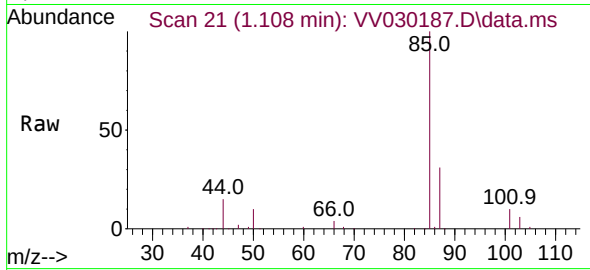




#2  
 Dichlorodifluoromethane  
 Concen: 4.840 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

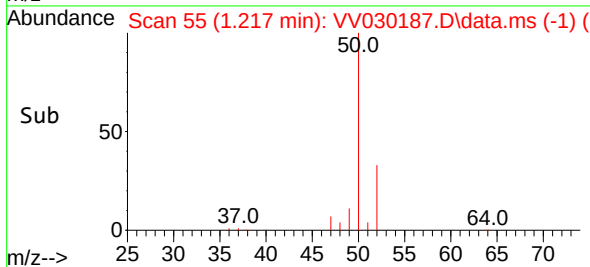
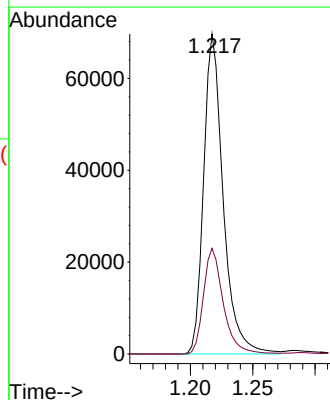
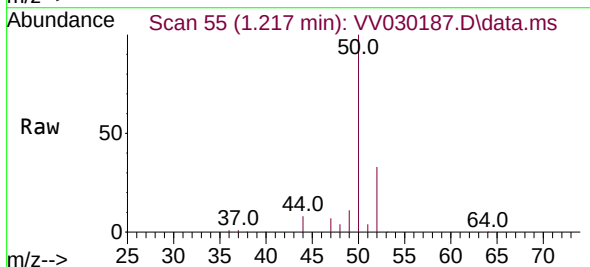
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005300

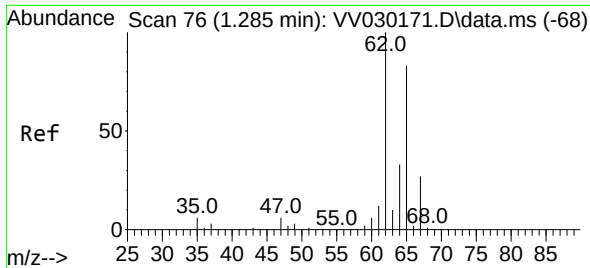
Tgt Ion: 85 Resp: 55163  
 Ion Ratio Lower Upper  
 85 100  
 87 31.5 26.6 39.8



#3  
 Chloromethane  
 Concen: 4.239 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. 0.000 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

Tgt Ion: 50 Resp: 76124  
 Ion Ratio Lower Upper  
 50 100  
 52 33.0 23.6 43.8

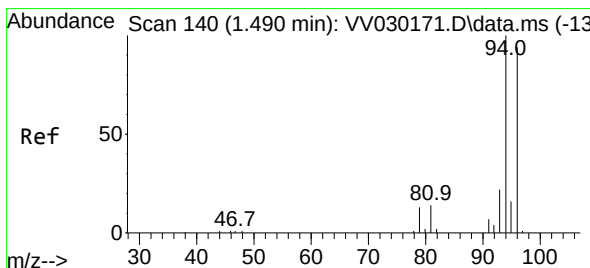
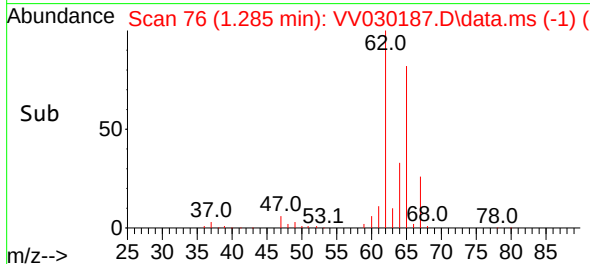
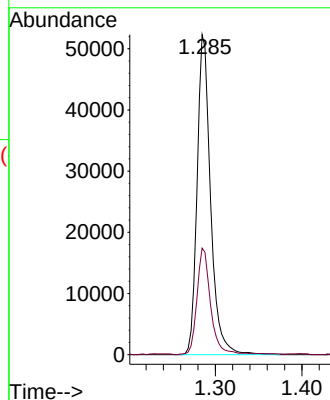
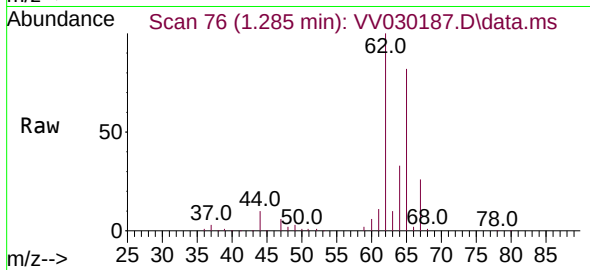




#5  
 Vinyl chloride  
 Concen: 4.732 ug/L  
 RT: 1.285 min Scan# 76  
 Delta R.T. 0.000 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

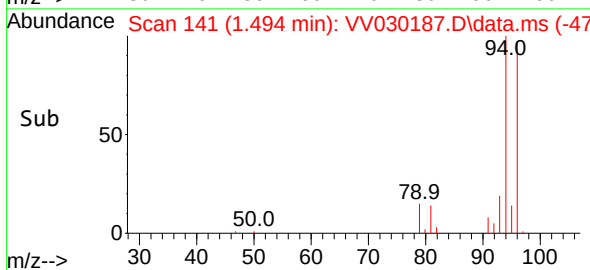
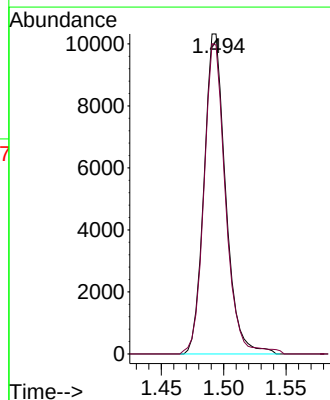
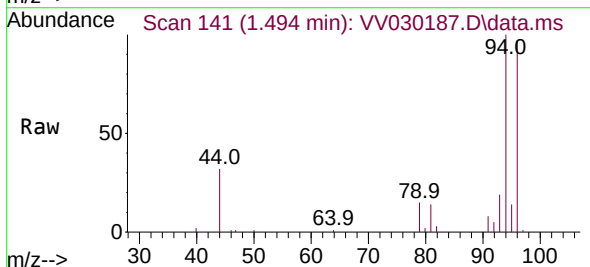
Instrument :  
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 ClientSampleId :  
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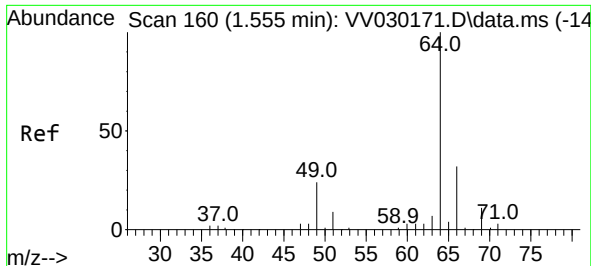
Tgt Ion: 62 Resp: 56470  
 Ion Ratio Lower Upper  
 62 100  
 64 33.3 23.1 42.9



#6  
 Bromomethane  
 Concen: 5.814 ug/L  
 RT: 1.494 min Scan# 141  
 Delta R.T. 0.003 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

Tgt Ion: 94 Resp: 12455  
 Ion Ratio Lower Upper  
 94 100  
 96 96.5 68.4 127.0

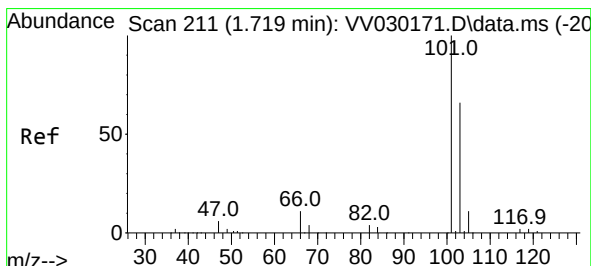
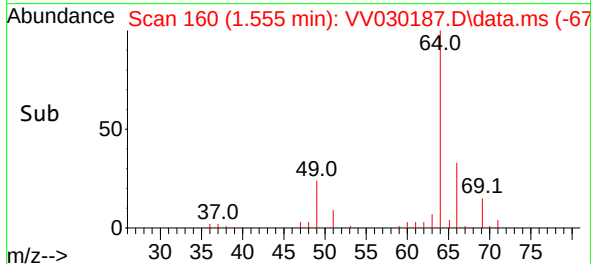
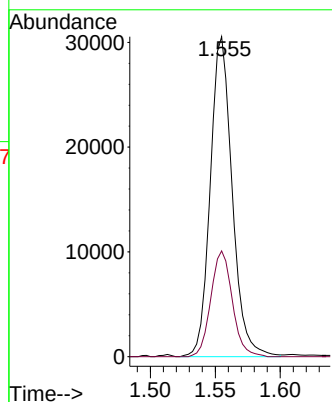
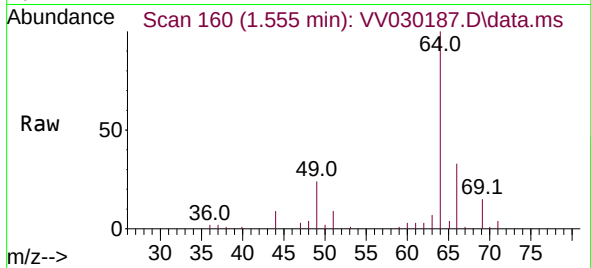




#8  
Chloroethane  
Concen: 4.925 ug/L  
RT: 1.555 min Scan# 160  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

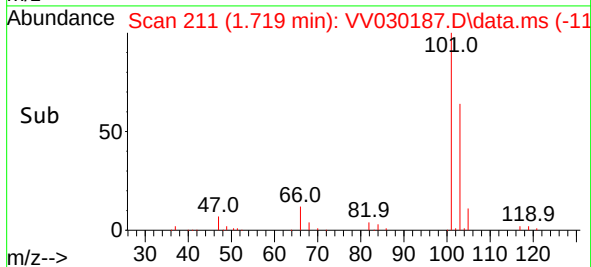
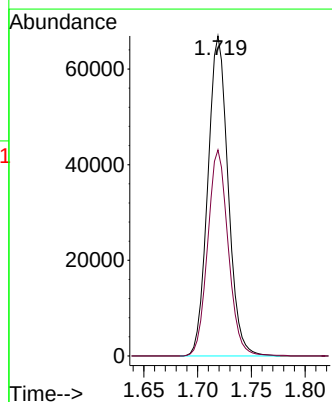
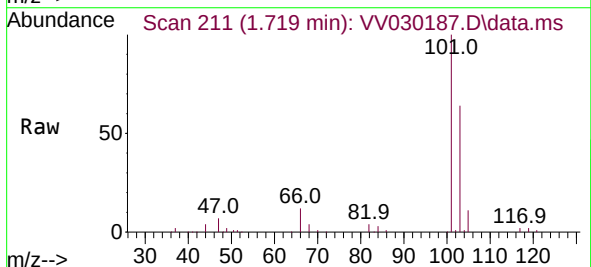
Instrument :  
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ClientSampleId :  
VSTD005300

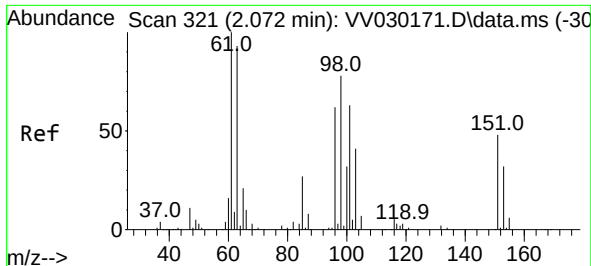
Tgt Ion: 64 Resp: 35813  
Ion Ratio Lower Upper  
64 100  
66 33.1 22.4 41.6



#9  
Trichlorofluoromethane  
Concen: 5.128 ug/L  
RT: 1.719 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion:101 Resp: 87800  
Ion Ratio Lower Upper  
101 100  
103 65.1 52.7 79.1

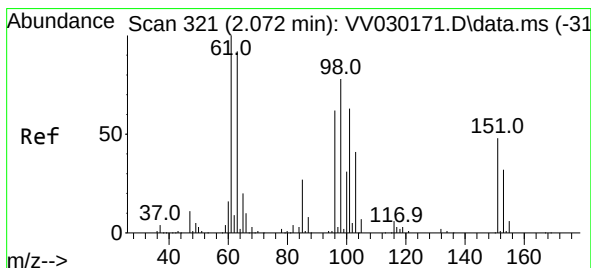
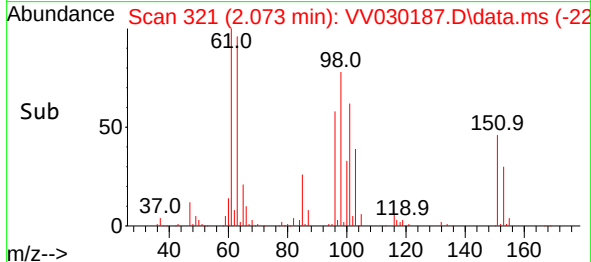
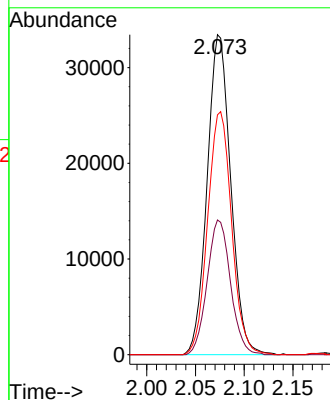
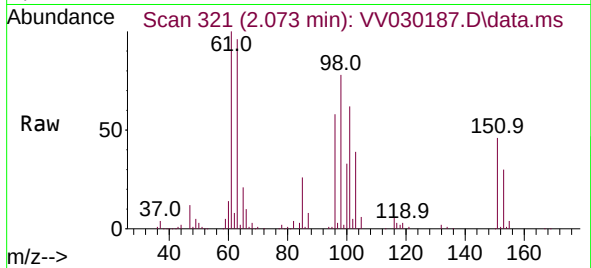




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.295 ug/L  
 RT: 2.073 min Scan# 311  
 Delta R.T. 0.000 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

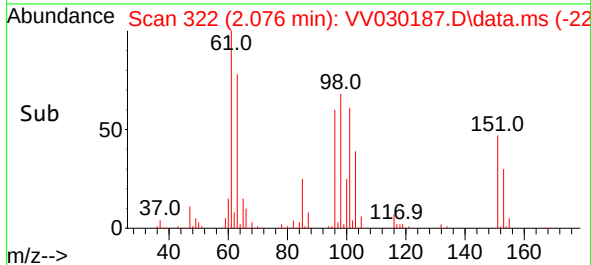
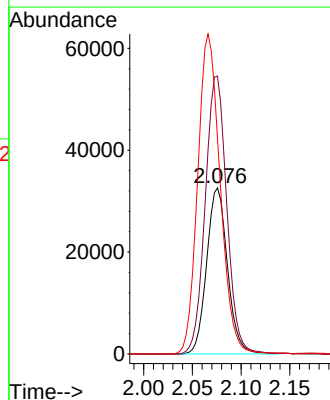
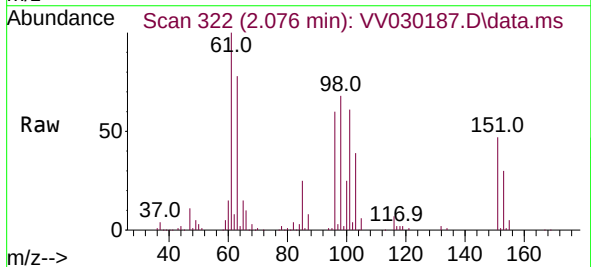
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005300

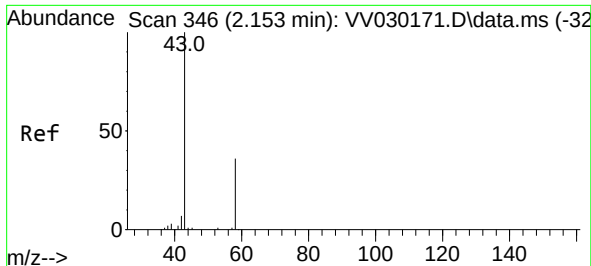
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 Ion Ratio Lower Upper  
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 85 41.6 33.5 50.3  
 151 77.1 61.6 92.4



#12  
 1,1-Dichloroethene  
 Concen: 5.156 ug/L  
 RT: 2.076 min Scan# 322  
 Delta R.T. 0.003 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

Tgt Ion: 96 Resp: 48468  
 Ion Ratio Lower Upper  
 96 100  
 61 167.4 115.6 214.6  
 63 130.1 85.6 159.0





#13

Acetone

Concen: 49.712 ug/L

RT: 2.166 min Scan# 3

Delta R.T. 0.013 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

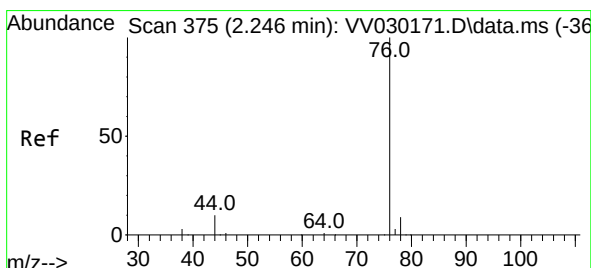
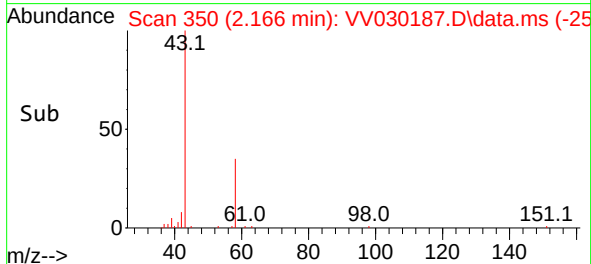
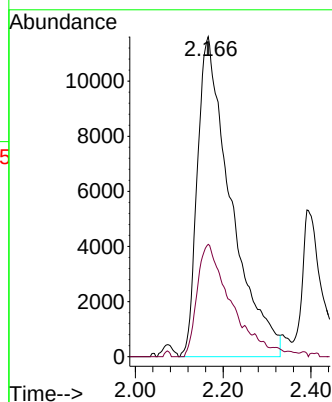
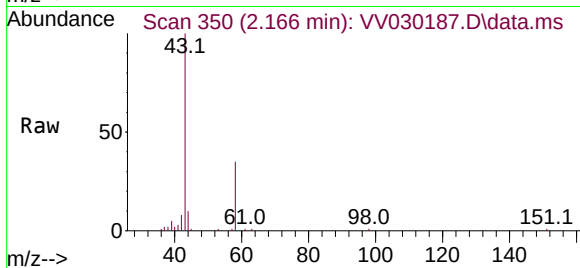
VSTD005300

Tgt Ion: 43 Resp: 61395

Ion Ratio Lower Upper

43 100

58 30.4 0.0 29.4#



#14

Carbon disulfide

Concen: 4.413 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.000 min

Lab File: VV030187.D

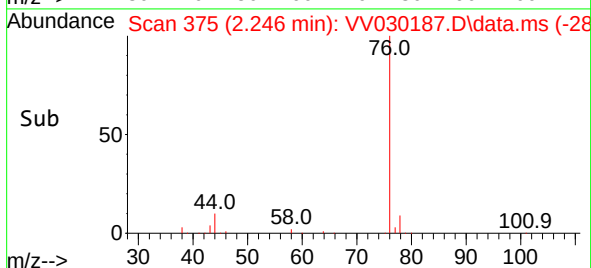
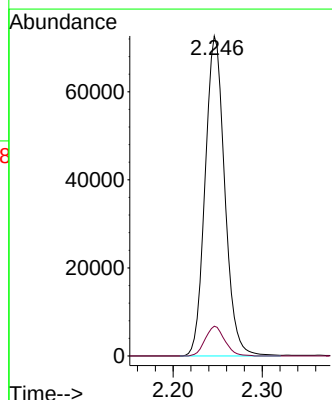
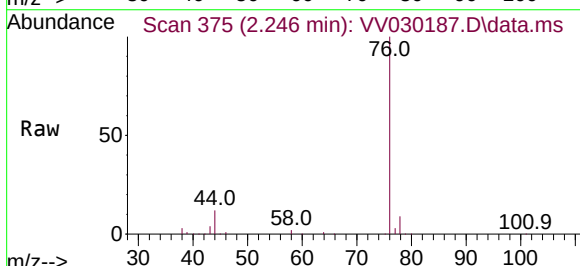
Acq: 14 Mar 2023 10:54

Tgt Ion: 76 Resp: 110993

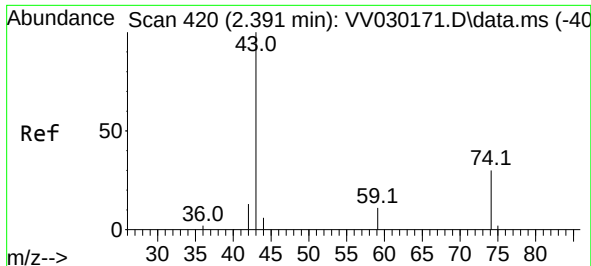
Ion Ratio Lower Upper

76 100

78 9.3 7.7 11.5



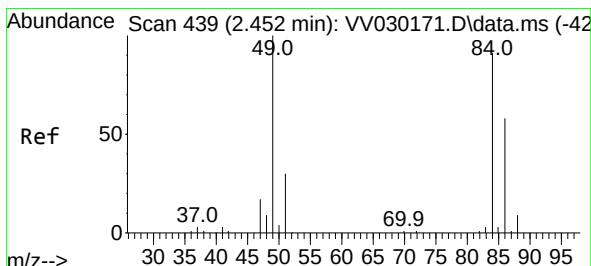
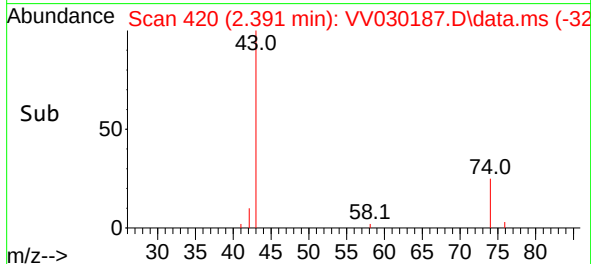
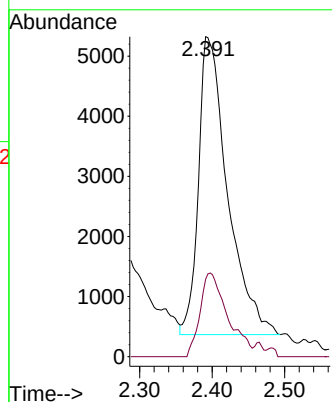
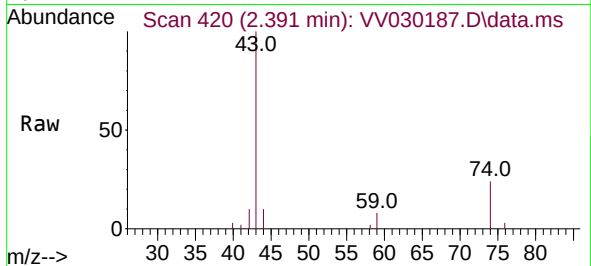




#15  
Methyl Acetate  
Concen: 4.798 ug/L  
RT: 2.391 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

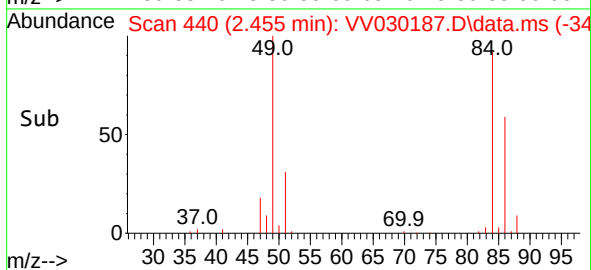
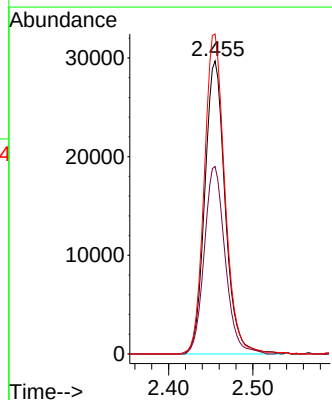
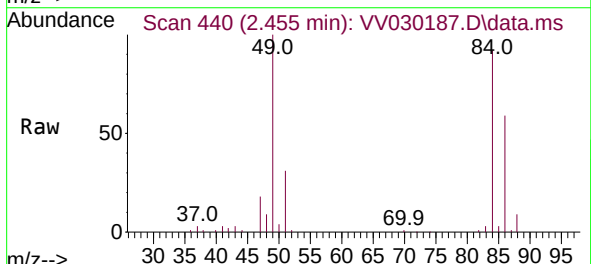
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

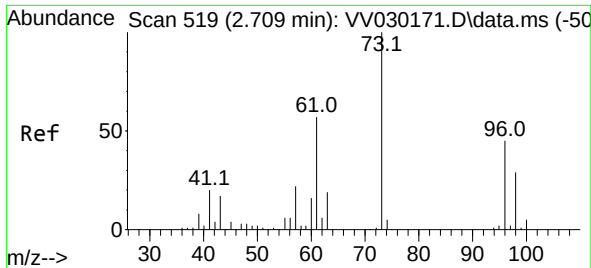
Tgt Ion: 43 Resp: 13839  
Ion Ratio Lower Upper  
43 100  
74 26.6 20.1 30.1



#16  
Methylene chloride  
Concen: 4.356 ug/L  
RT: 2.455 min Scan# 440  
Delta R.T. 0.003 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion: 84 Resp: 50021  
Ion Ratio Lower Upper  
84 100  
86 64.0 44.7 83.1  
49 109.2 78.8 146.3

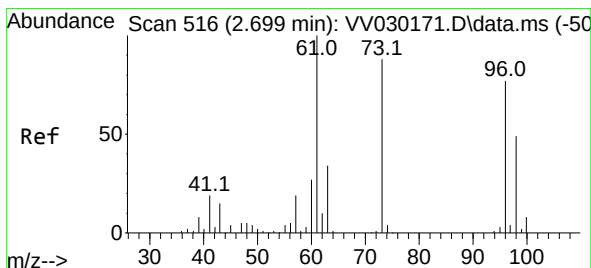
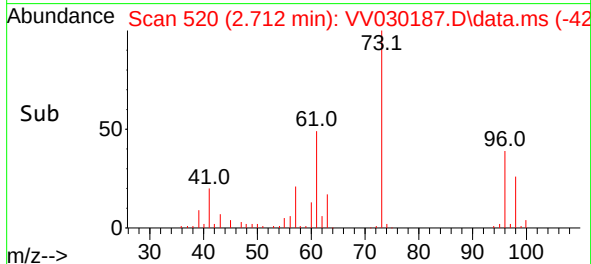
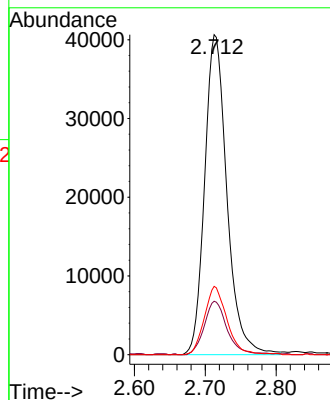
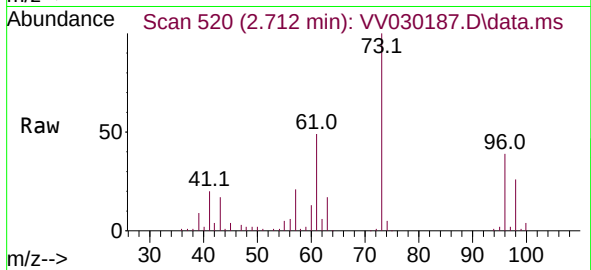




#17  
Methyl tert-butyl Ether  
Concen: 4.824 ug/L  
RT: 2.712 min Scan# 519  
Delta R.T. 0.003 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

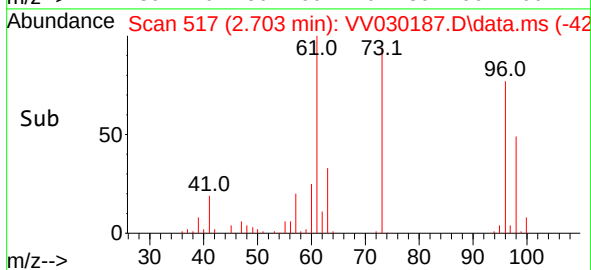
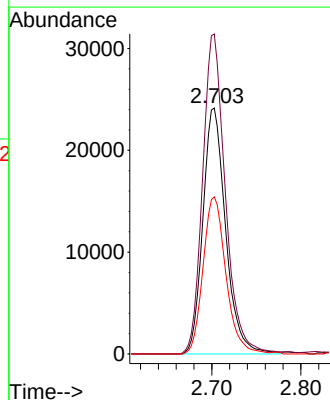
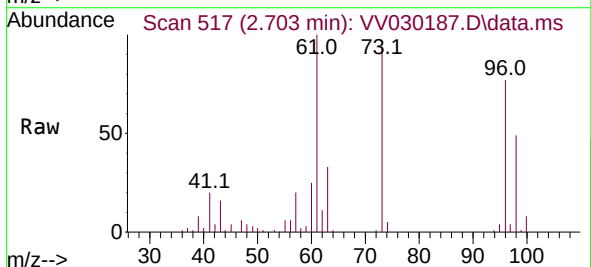
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

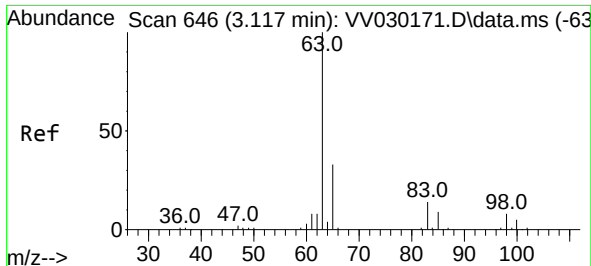
Tgt Ion: 73 Resp: 88667  
Ion Ratio Lower Upper  
73 100  
43 17.3 13.4 20.2  
57 21.5 16.8 25.2



#18  
trans-1,2-Dichloroethene  
Concen: 4.796 ug/L  
RT: 2.703 min Scan# 517  
Delta R.T. 0.003 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion: 96 Resp: 42886  
Ion Ratio Lower Upper  
96 100  
61 130.1 91.0 169.0  
98 63.9 45.2 84.0





#19

1,1-Dichloroethane

Concen: 5.178 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005300

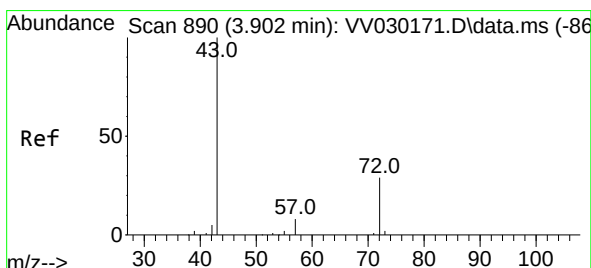
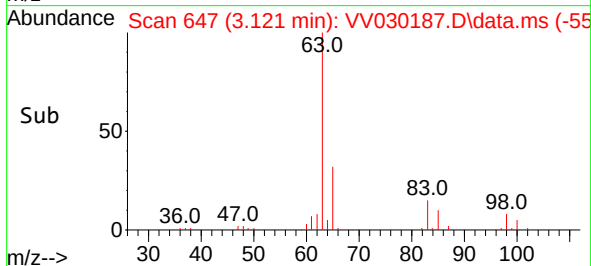
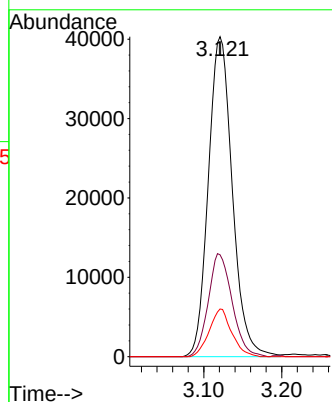
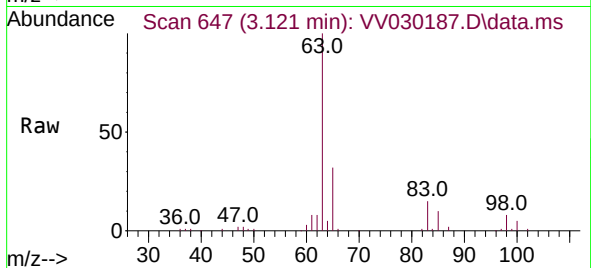
Tgt Ion: 63 Resp: 86246

Ion Ratio Lower Upper

63 100

65 31.9 23.0 42.8

83 14.9 9.6 17.8



#21

2-Butanone

Concen: 47.627 ug/L

RT: 3.915 min Scan# 894

Delta R.T. 0.013 min

Lab File: VV030187.D

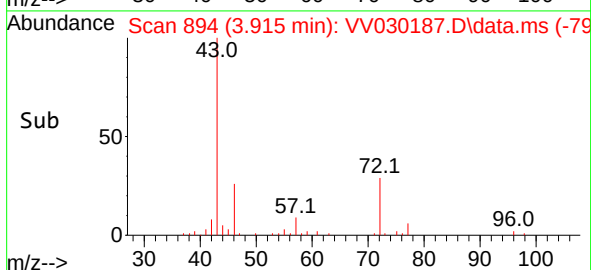
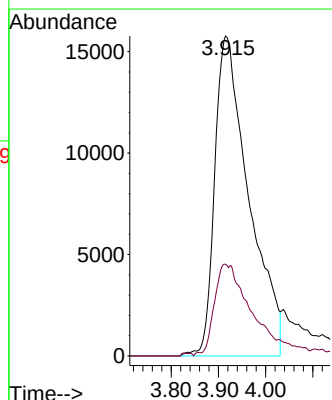
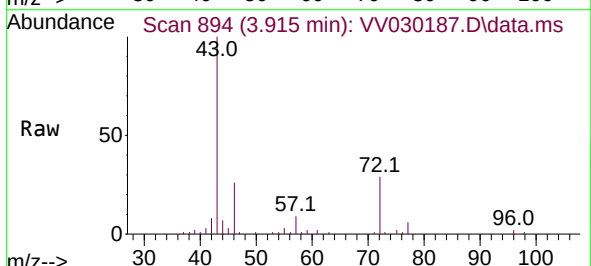
Acq: 14 Mar 2023 10:54

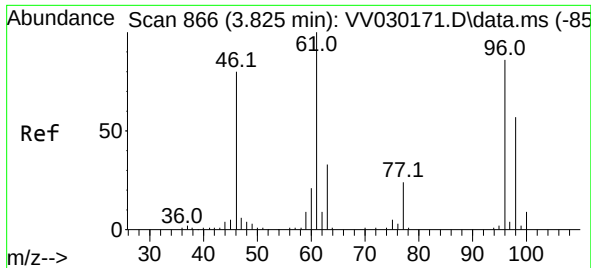
Tgt Ion: 43 Resp: 79106

Ion Ratio Lower Upper

43 100

72 29.7 15.1 45.3

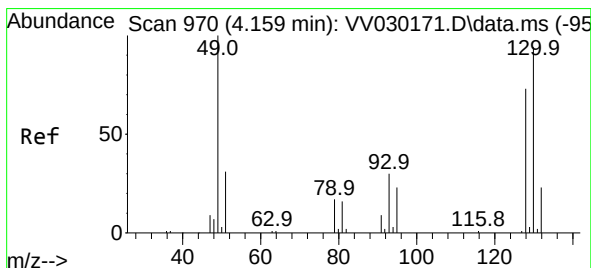
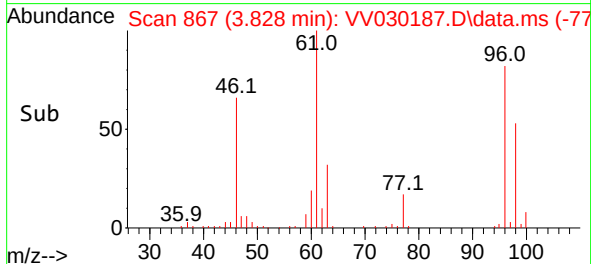
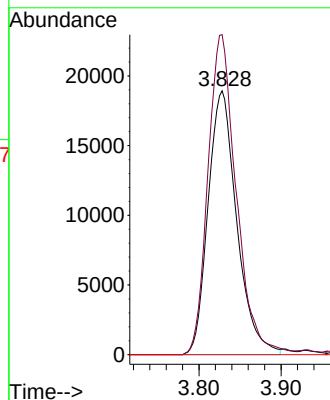
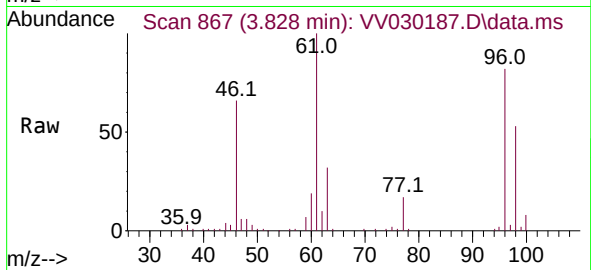




#22  
 cis-1,2-Dichloroethene  
 Concen: 4.657 ug/L  
 RT: 3.828 min Scan# 866  
 Delta R.T. 0.003 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

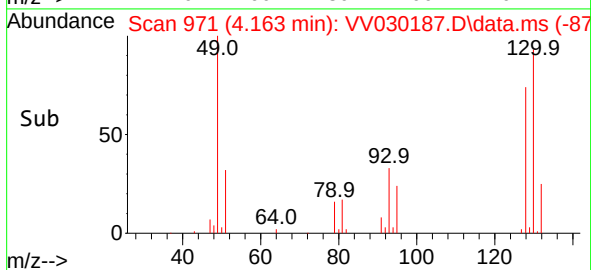
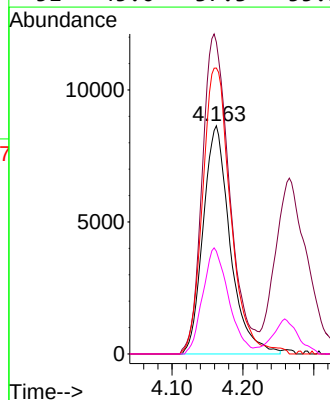
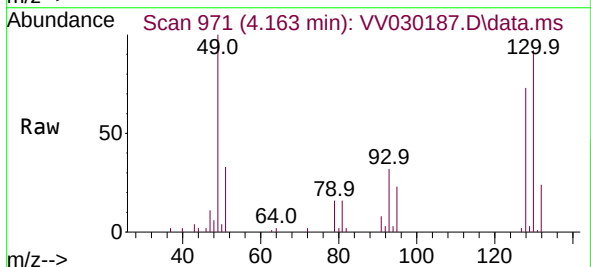
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005300

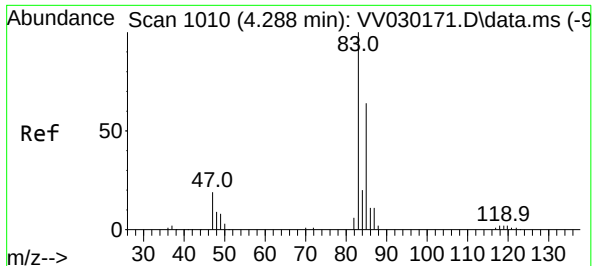
Tgt Ion: 96 Resp: 46026  
 Ion Ratio Lower Upper  
 96 100  
 61 121.3 83.4 154.8  
 68 0.0 0.0 0.0



#23  
 Bromochloromethane  
 Concen: 5.407 ug/L  
 RT: 4.163 min Scan# 971  
 Delta R.T. 0.003 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

Tgt Ion: 128 Resp: 22835  
 Ion Ratio Lower Upper  
 128 100  
 49 136.6 99.5 184.9  
 130 125.3 90.5 168.1  
 51 45.0 37.3 55.9





#25

Chloroform

Concen: 5.403 ug/L

RT: 4.288 min Scan# 1010

Delta R.T. 0.000 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

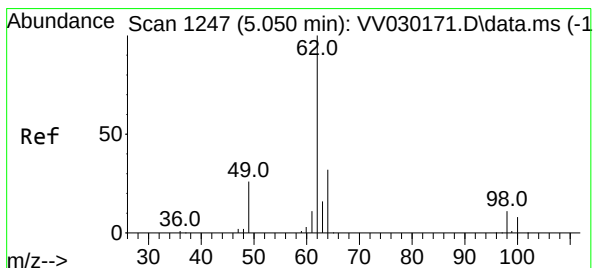
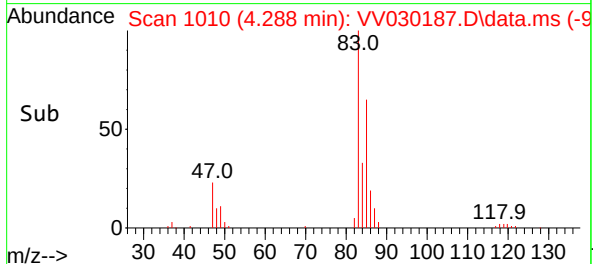
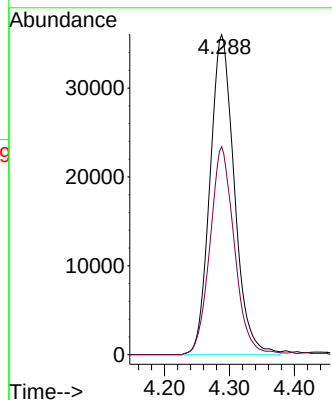
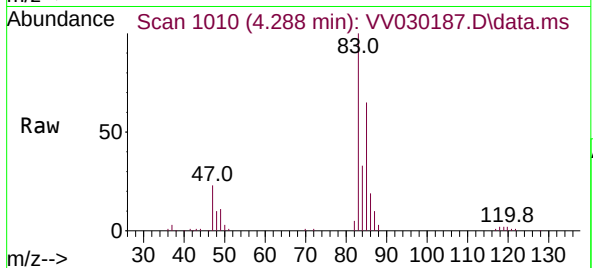
VSTD005300

Tgt Ion: 83 Resp: 93620

Ion Ratio Lower Upper

83 100

85 65.0 46.5 86.5



#27

1,2-Dichloroethane

Concen: 5.389 ug/L

RT: 5.053 min Scan# 1248

Delta R.T. 0.003 min

Lab File: VV030187.D

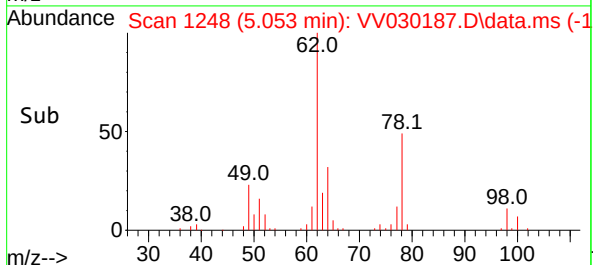
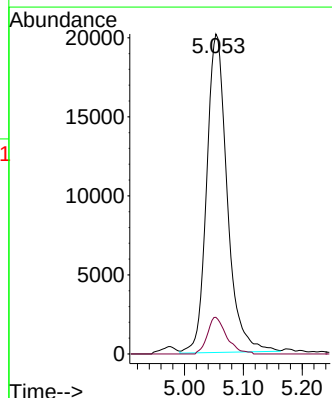
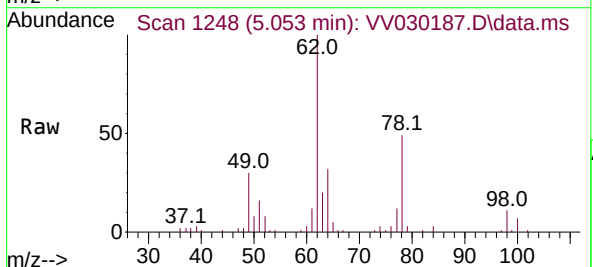
Acq: 14 Mar 2023 10:54

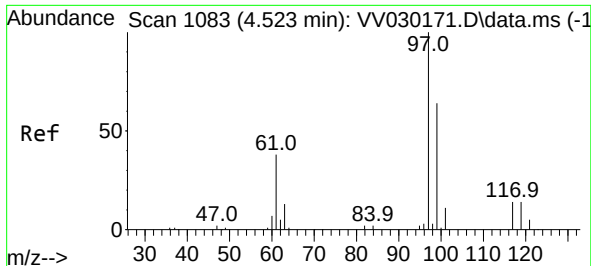
Tgt Ion: 62 Resp: 48845

Ion Ratio Lower Upper

62 100

98 11.4 9.0 13.4

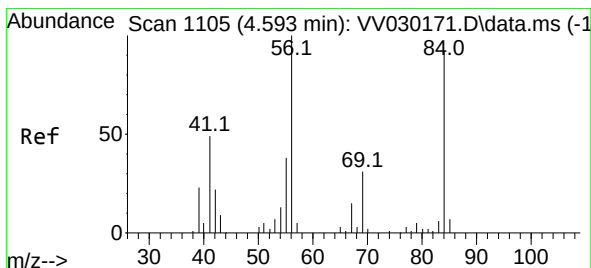
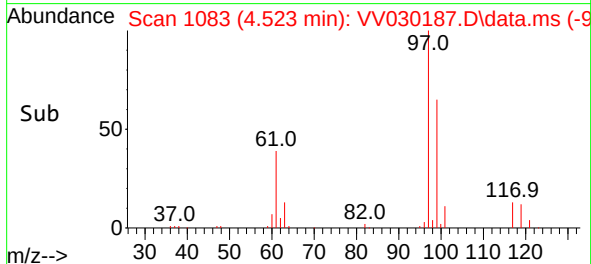
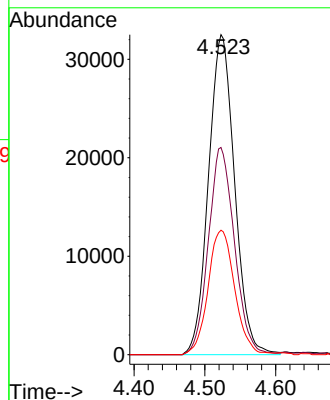
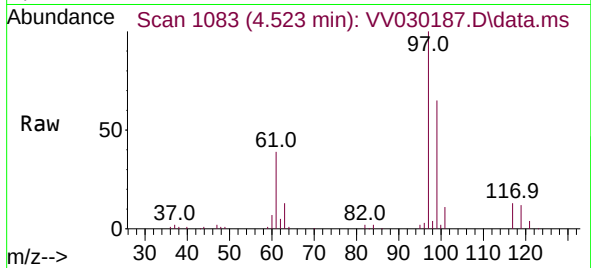




#29  
1,1,1-Trichloroethane  
Concen: 5.137 ug/L  
RT: 4.523 min Scan# 1106  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

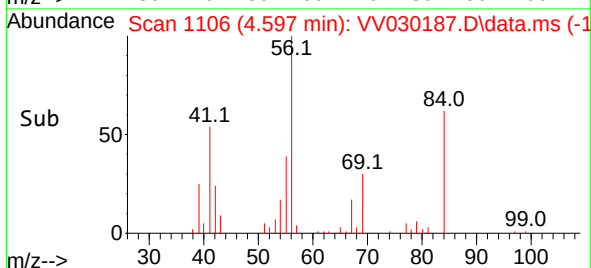
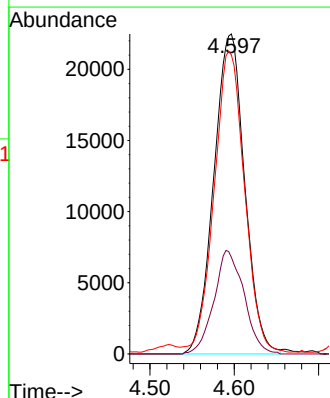
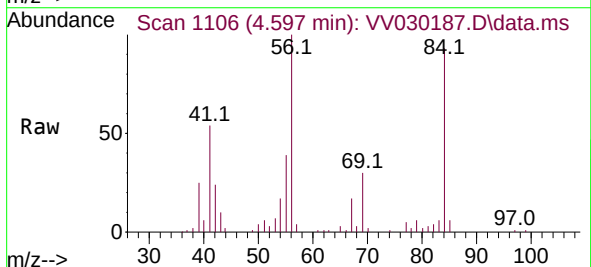
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

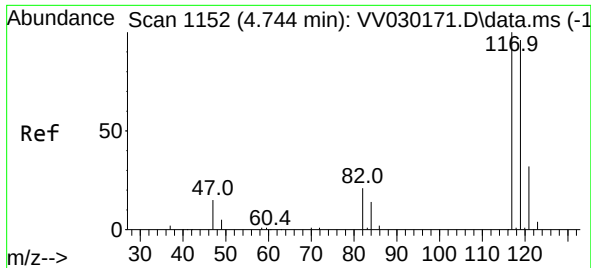
Tgt Ion: 97 Resp: 83298  
Ion Ratio Lower Upper  
97 100  
99 64.6 51.3 76.9  
61 39.7 31.5 47.3



#30  
Cyclohexane  
Concen: 4.076 ug/L  
RT: 4.597 min Scan# 1106  
Delta R.T. 0.003 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion: 56 Resp: 57106  
Ion Ratio Lower Upper  
56 100  
69 31.5 25.1 37.7  
84 92.2 74.6 111.8

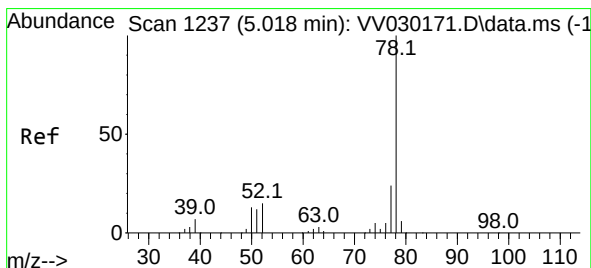
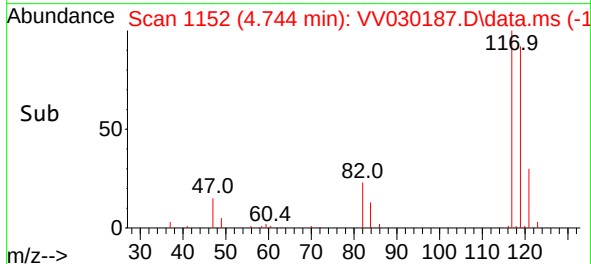
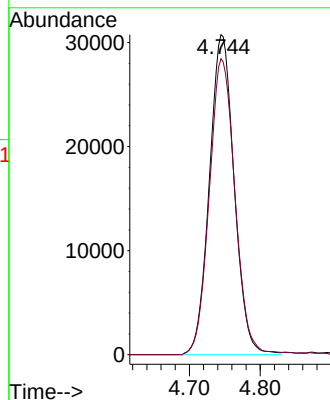
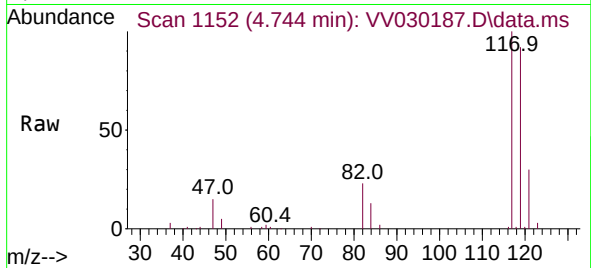




#31  
Carbon tetrachloride  
Concen: 5.117 ug/L  
RT: 4.744 min Scan# 1152  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

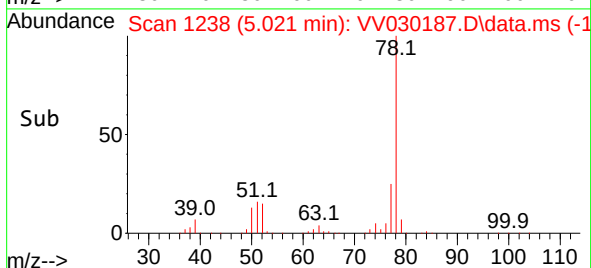
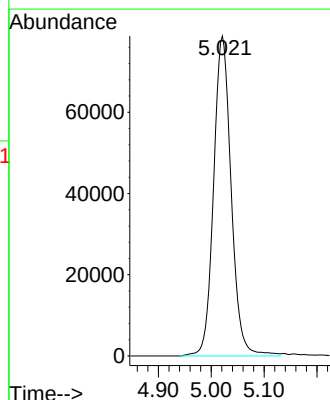
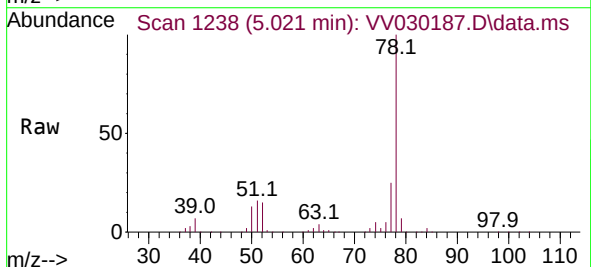
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

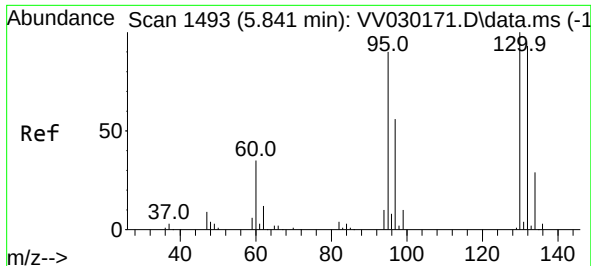
Tgt Ion:117 Resp: 74585  
Ion Ratio Lower Upper  
117 100  
119 96.0 76.1 114.1



#33  
Benzene  
Concen: 4.837 ug/L  
RT: 5.021 min Scan# 1238  
Delta R.T. 0.003 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion: 78 Resp: 182346



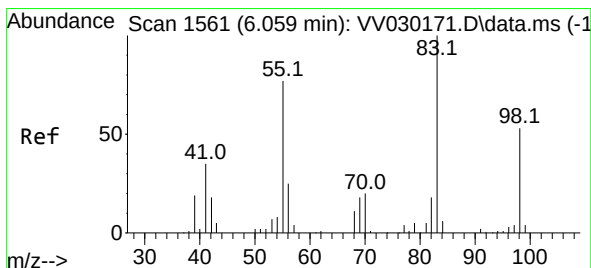
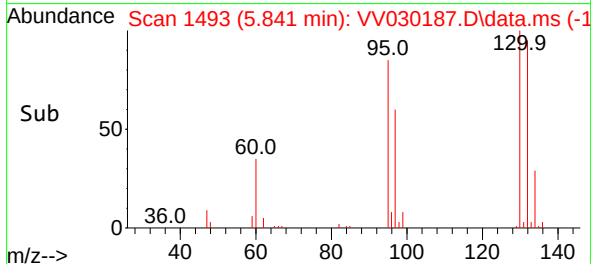
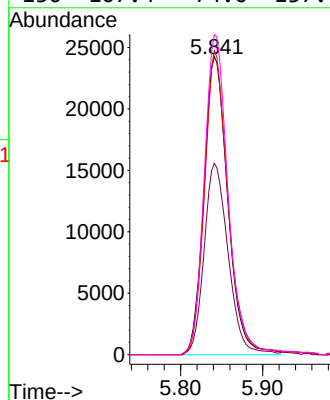
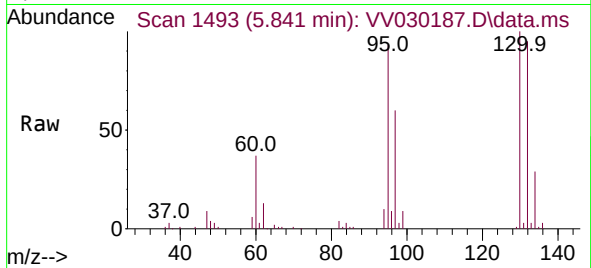


#34  
Trichloroethene  
Concen: 4.648 ug/L  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

Tgt Ion: 95 Resp: 49098

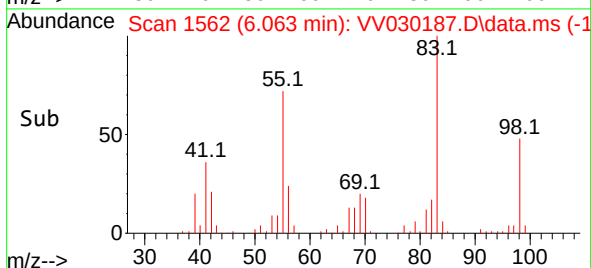
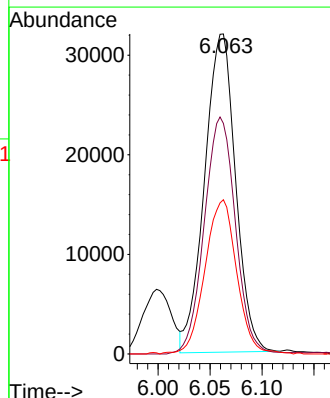
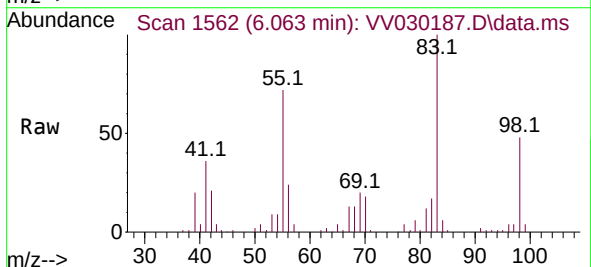
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.2  | 46.5  | 86.5  |
| 132 | 102.0 | 71.7  | 133.3 |
| 130 | 107.4 | 74.0  | 137.4 |



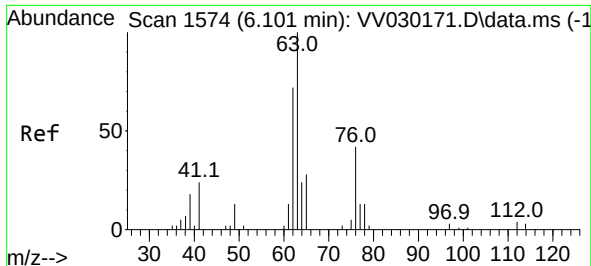
#35  
Methylcyclohexane  
Concen: 4.152 ug/L  
RT: 6.063 min Scan# 1562  
Delta R.T. 0.003 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion: 83 Resp: 66386

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 74.9  | 57.6  | 86.4  |
| 98  | 49.6  | 38.8  | 58.2  |







#37

1,2-Dichloropropane

Concen: 5.111 ug/L

RT: 6.101 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

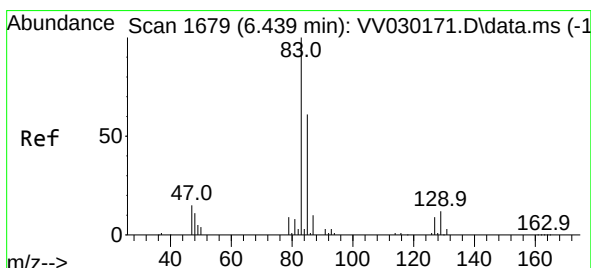
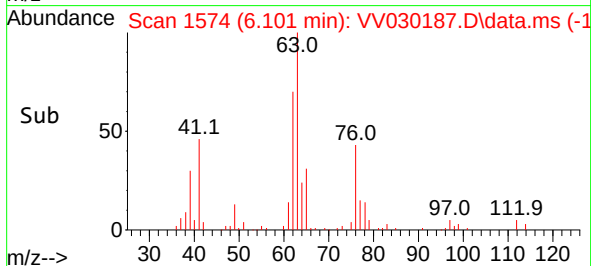
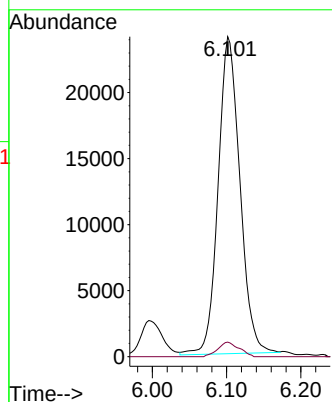
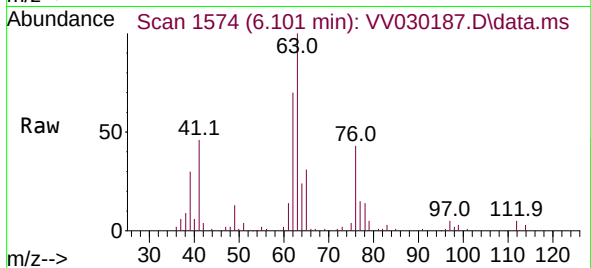
VSTD005300

Tgt Ion: 63 Resp: 49019

Ion Ratio Lower Upper

63 100

112 4.5 3.8 5.6



#38

Bromodichloromethane

Concen: 5.216 ug/L

RT: 6.442 min Scan# 1680

Delta R.T. 0.003 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

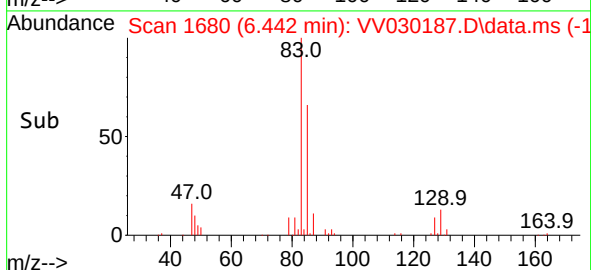
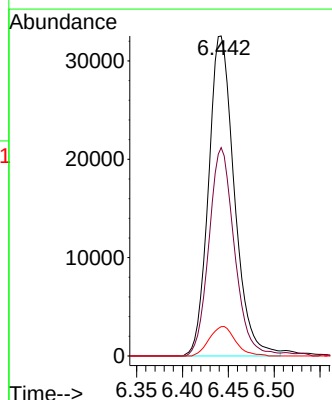
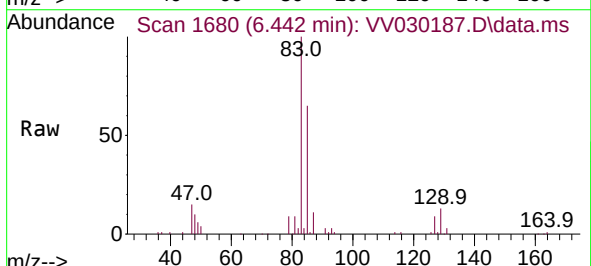
Tgt Ion: 83 Resp: 63858

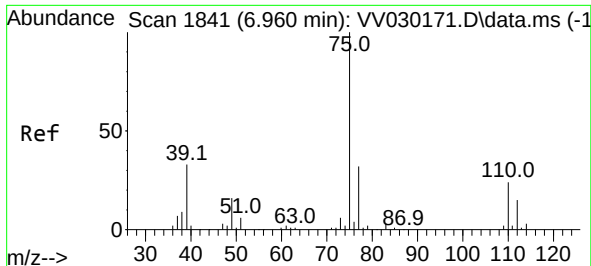
Ion Ratio Lower Upper

83 100

85 65.1 44.3 82.3

127 9.2 7.2 10.8





#39

cis-1,3-Dichloropropene

Concen: 4.624 ug/L

RT: 6.963 min Scan# 1842

Delta R.T. 0.003 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

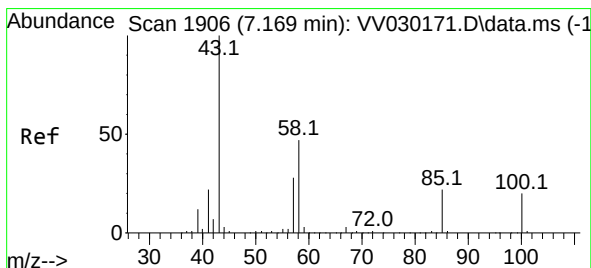
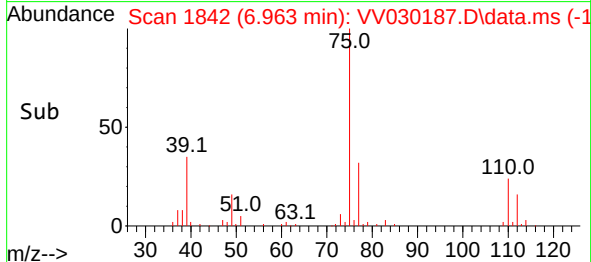
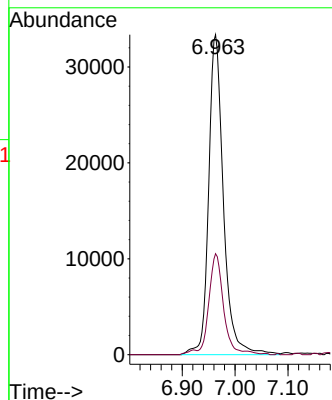
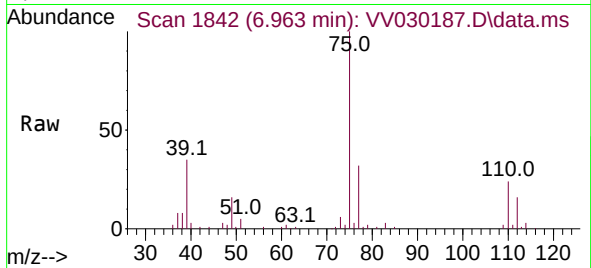
VSTD005300

Tgt Ion: 75 Resp: 64916

Ion Ratio Lower Upper

75 100

77 31.5 22.3 41.3



#40

4-Methyl-2-pentanone

Concen: 53.285 ug/L

RT: 7.169 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

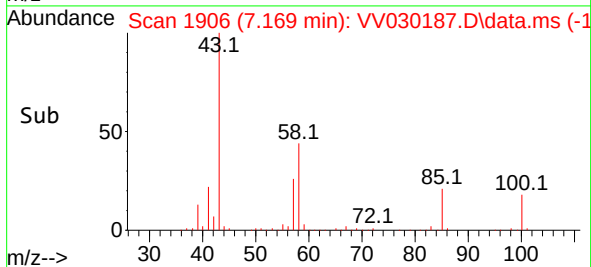
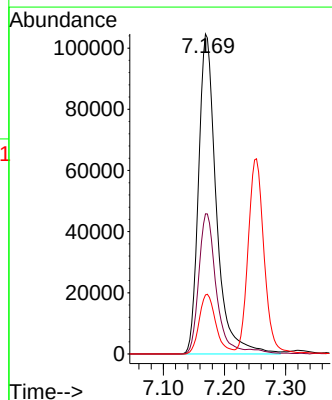
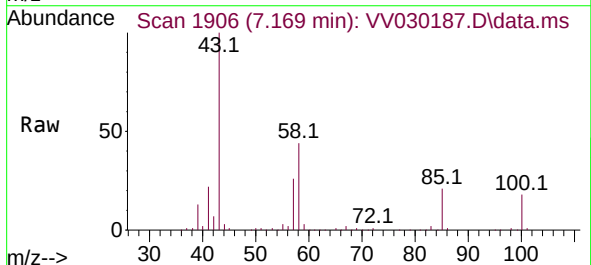
Tgt Ion: 43 Resp: 210877

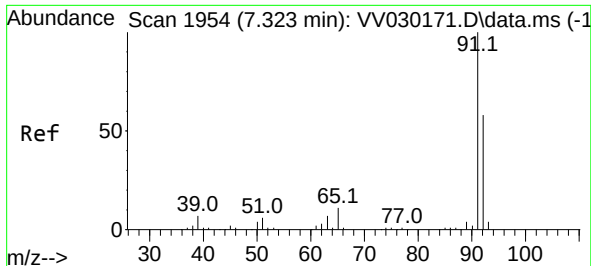
Ion Ratio Lower Upper

43 100

58 42.6 35.3 52.9

100 17.7 14.7 22.1





#42

Toluene

Concen: 5.012 ug/L

RT: 7.323 min Scan# 1954

Delta R.T. 0.000 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

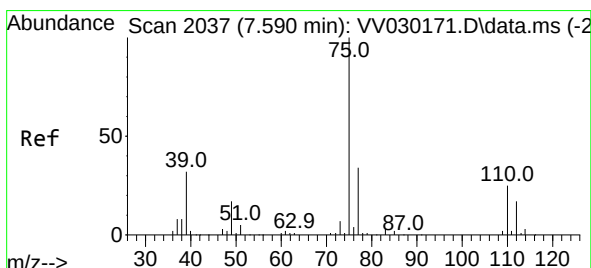
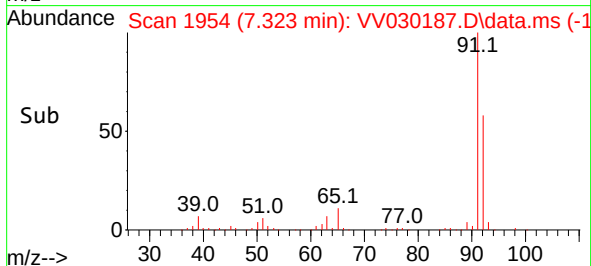
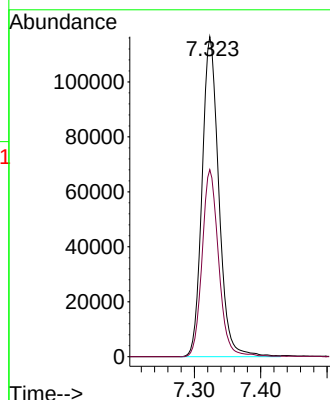
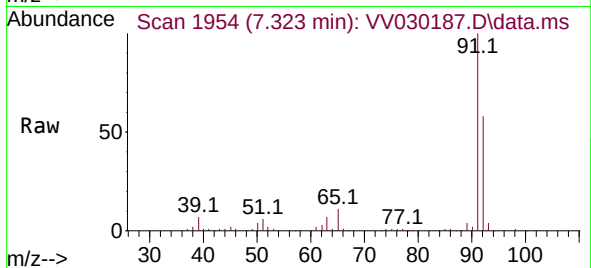
VSTD005300

Tgt Ion: 91 Resp: 204638

Ion Ratio Lower Upper

91 100

92 58.4 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 4.989 ug/L

RT: 7.590 min Scan# 2037

Delta R.T. 0.000 min

Lab File: VV030187.D

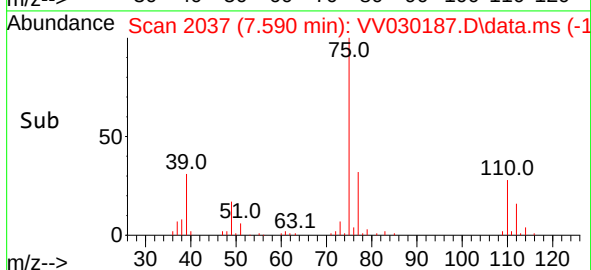
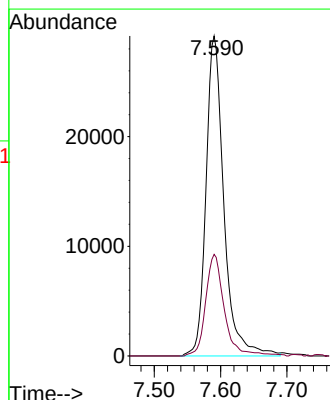
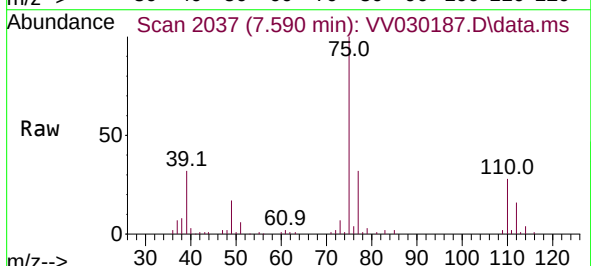
Acq: 14 Mar 2023 10:54

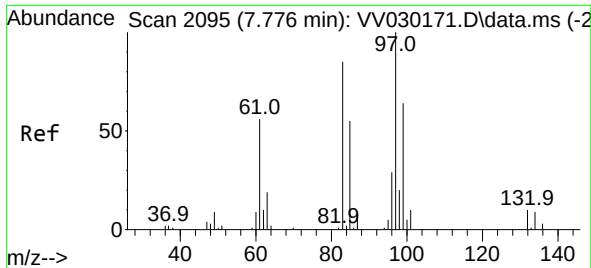
Tgt Ion: 75 Resp: 54679

Ion Ratio Lower Upper

75 100

77 31.7 22.1 41.1

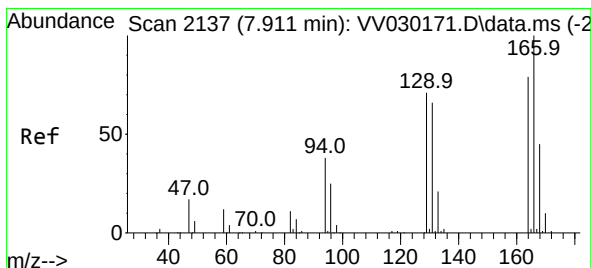
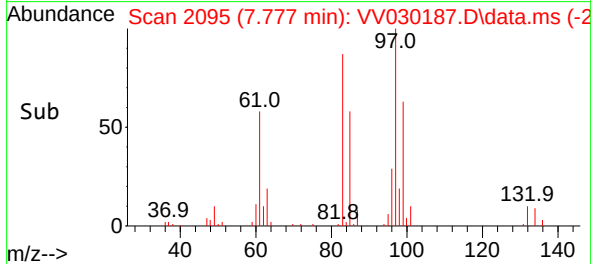
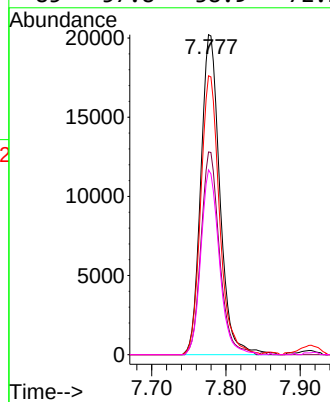
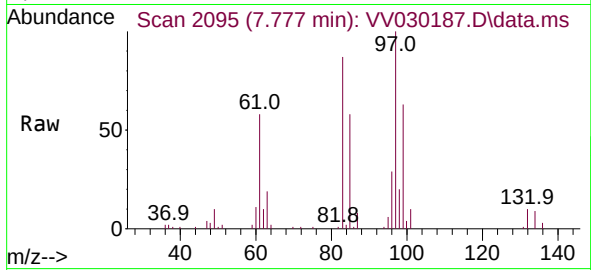




#45  
1,1,2-Trichloroethane  
Concen: 5.253 ug/L  
RT: 7.777 min Scan# 2095  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

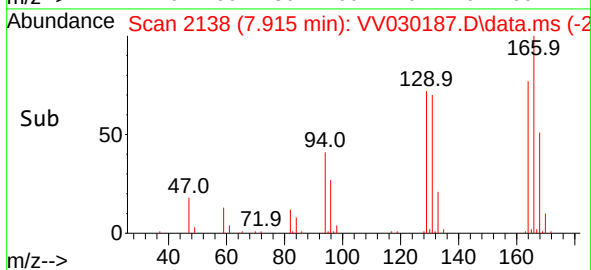
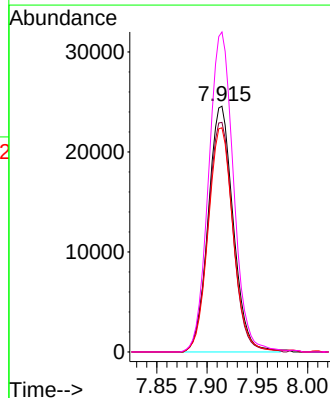
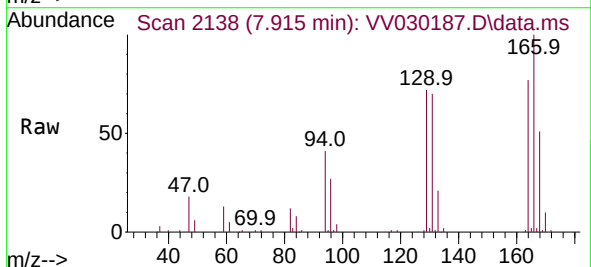
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

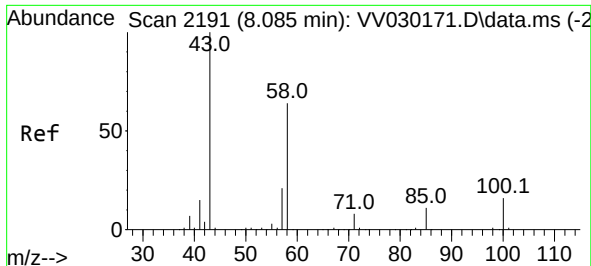
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 36046 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.3  | 42.6  | 79.2  |
| 83       | 87.1  | 57.7  | 107.3 |
| 85       | 57.8  | 38.9  | 72.2  |



#47  
Tetrachloroethene  
Concen: 4.690 ug/L  
RT: 7.915 min Scan# 2138  
Delta R.T. 0.003 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 42529 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 93.5  | 63.6  | 118.2 |
| 131      | 91.2  | 61.7  | 114.7 |
| 166      | 130.2 | 90.8  | 168.6 |



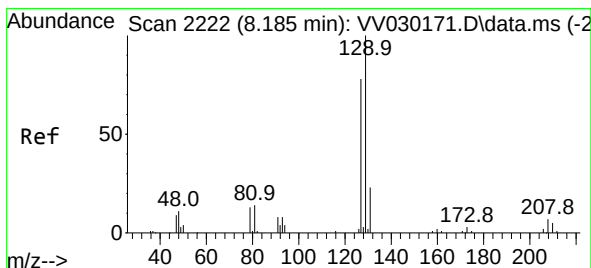
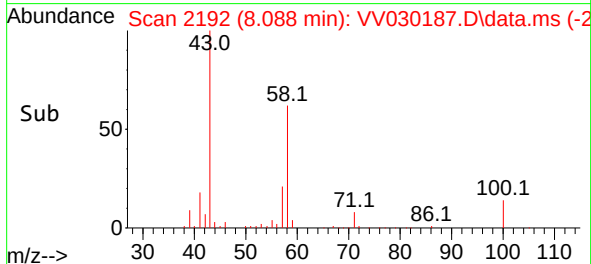
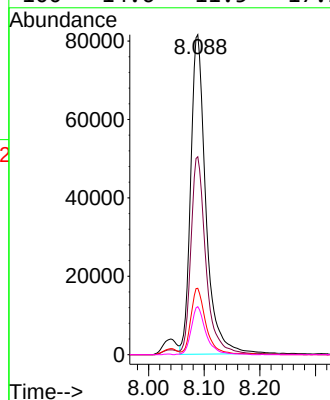
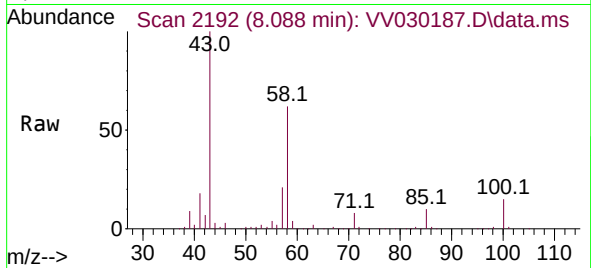


#48  
2-Hexanone  
Concen: 54.480 ug/L  
RT: 8.088 min Scan# 2192  
Delta R.T. 0.003 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

Tgt Ion: 43 Resp: 154353

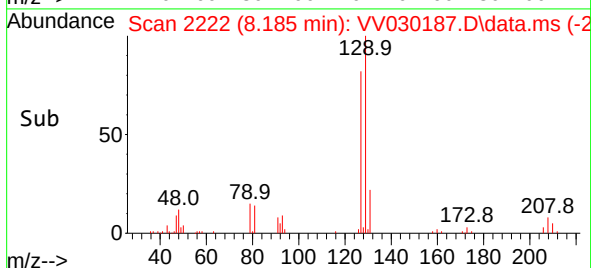
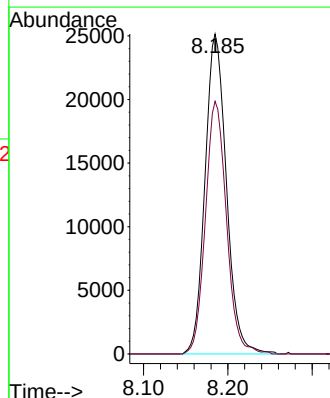
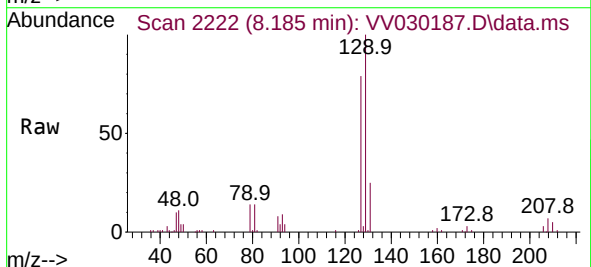
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 60.4  | 49.8  | 74.8  |
| 57  | 20.2  | 16.6  | 24.8  |
| 100 | 14.6  | 11.5  | 17.3  |

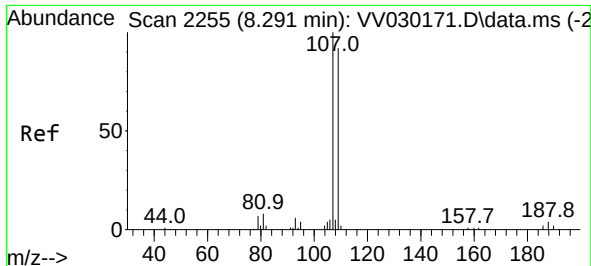


#49  
Dibromochloromethane  
Concen: 5.538 ug/L  
RT: 8.185 min Scan# 2222  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion: 129 Resp: 44474

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.9  | 54.7  | 101.5 |





#50

1,2-Dibromoethane

Concen: 5.109 ug/L

RT: 8.291 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005300

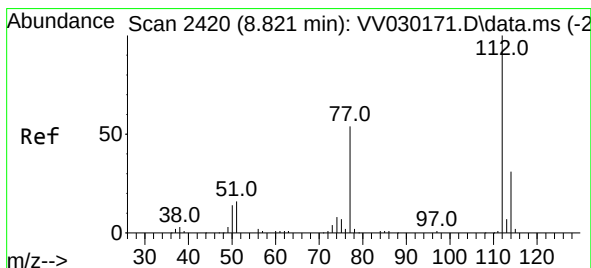
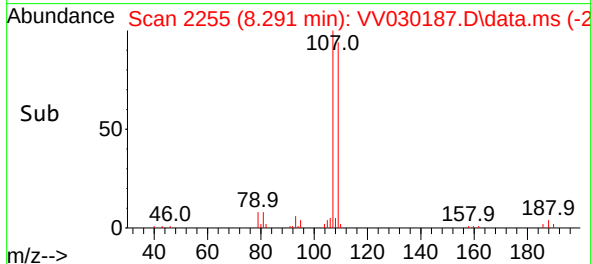
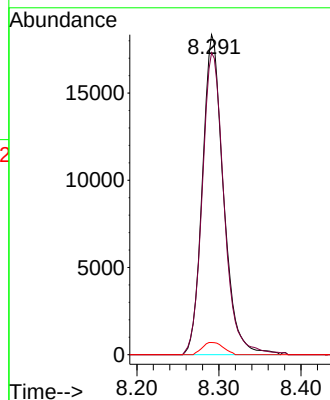
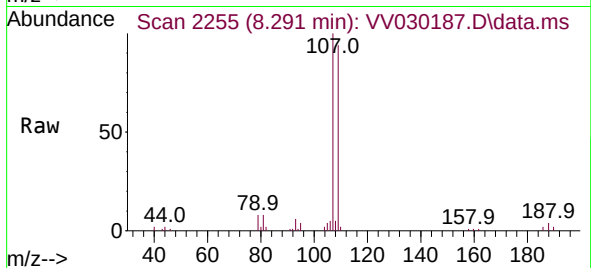
Tgt Ion:107 Resp: 32711

Ion Ratio Lower Upper

107 100

109 94.4 63.3 117.7

188 3.8 3.0 4.6



#51

Chlorobenzene

Concen: 4.857 ug/L

RT: 8.821 min Scan# 2420

Delta R.T. 0.000 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

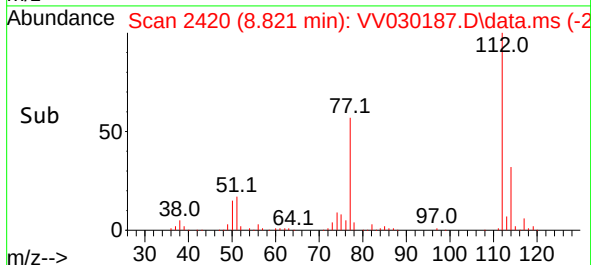
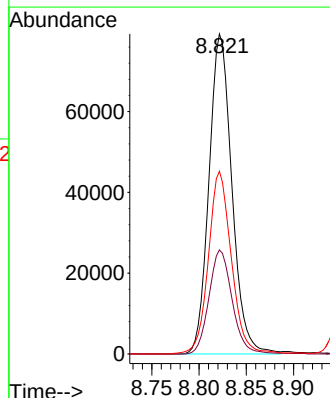
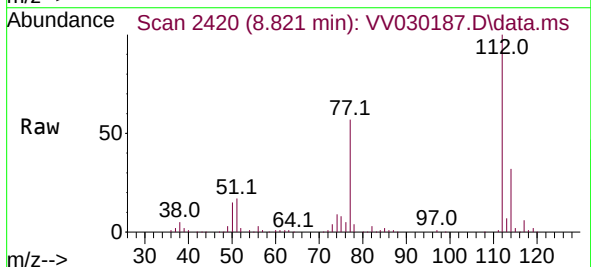
Tgt Ion:112 Resp: 133735

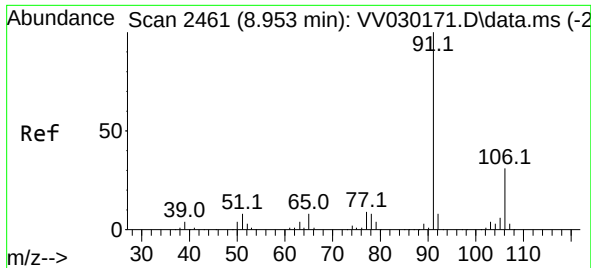
Ion Ratio Lower Upper

112 100

114 32.5 22.5 41.7

77 57.1 45.3 67.9

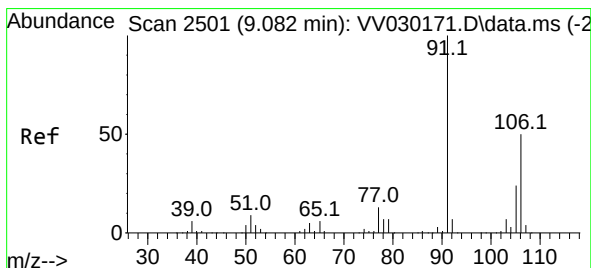
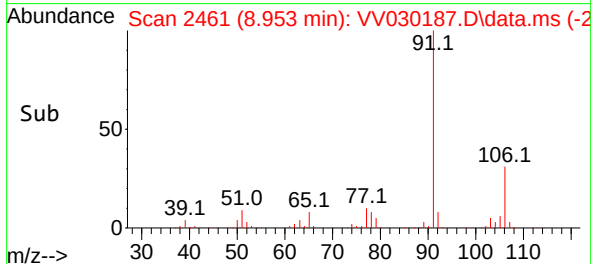
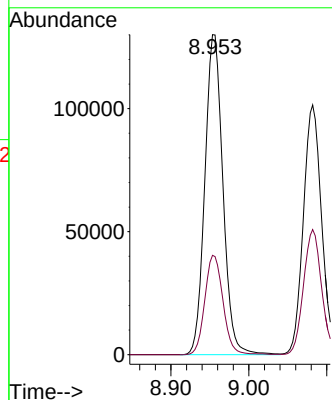
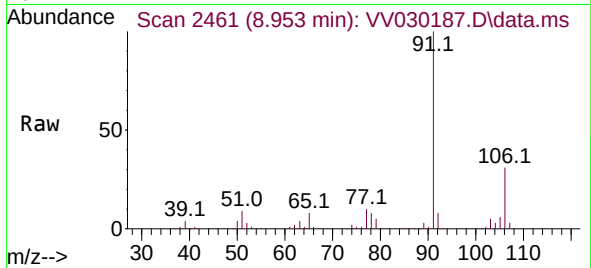




#52  
Ethylbenzene  
Concen: 4.717 ug/L  
RT: 8.953 min Scan# 2461  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

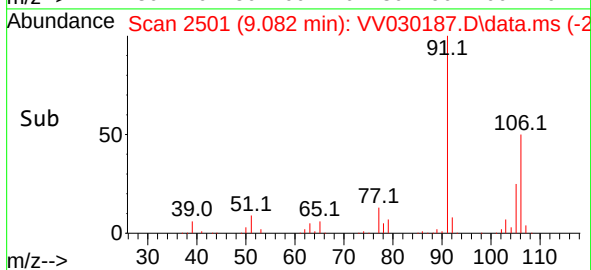
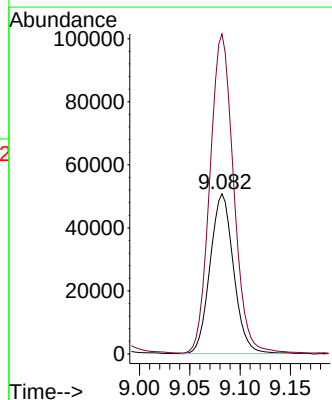
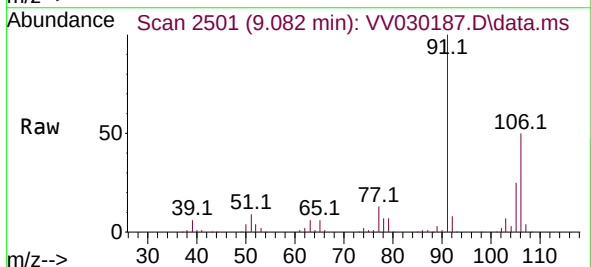
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

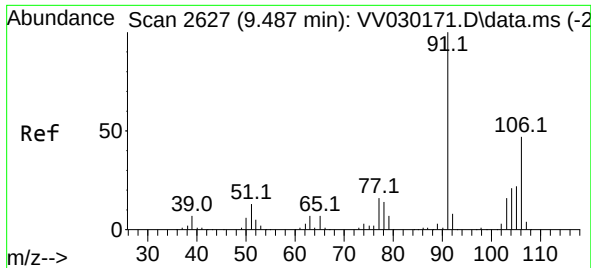
Tgt Ion: 91 Resp: 209597  
Ion Ratio Lower Upper  
91 100  
106 31.1 22.0 40.8



#53  
m,p-Xylene  
Concen: 4.815 ug/L  
RT: 9.082 min Scan# 2501  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion: 106 Resp: 82227  
Ion Ratio Lower Upper  
106 100  
91 199.7 142.5 264.7

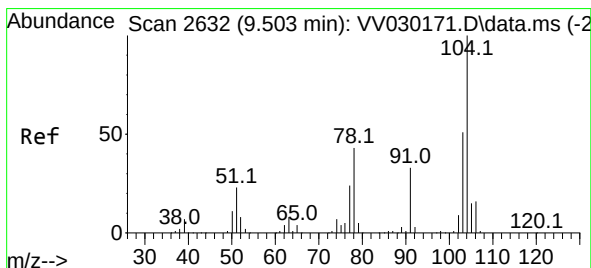
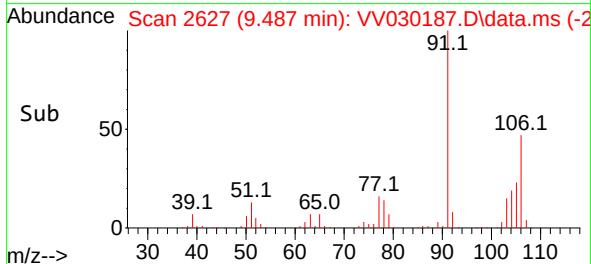
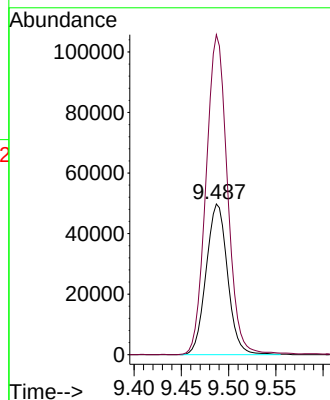
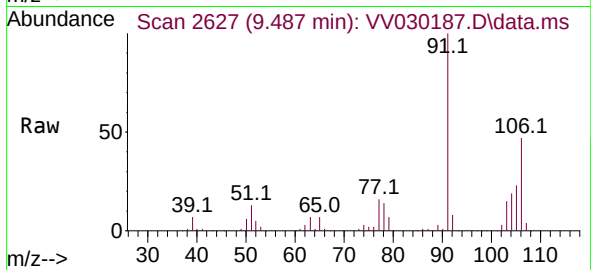




#54  
o-Xylene  
Concen: 4.823 ug/L  
RT: 9.487 min Scan# 2627  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

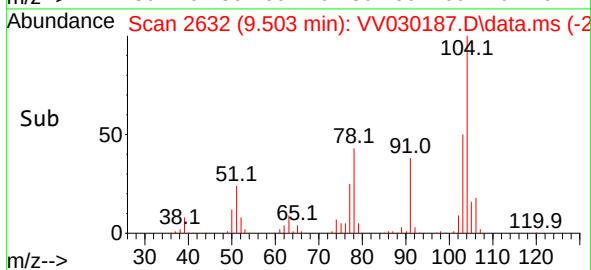
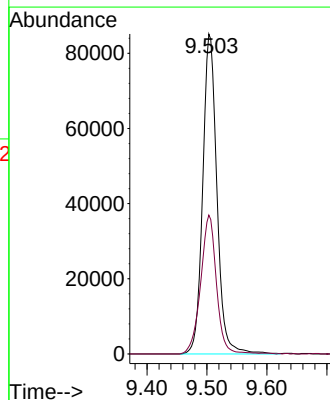
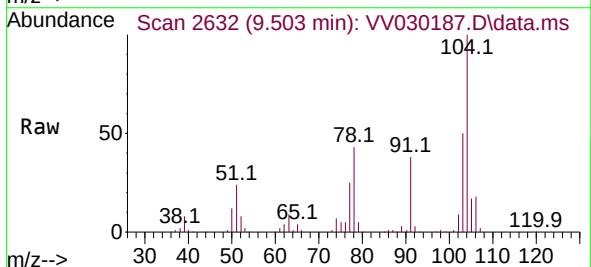
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

Tgt Ion:106 Resp: 78669  
Ion Ratio Lower Upper  
106 100  
91 212.2 148.8 276.4

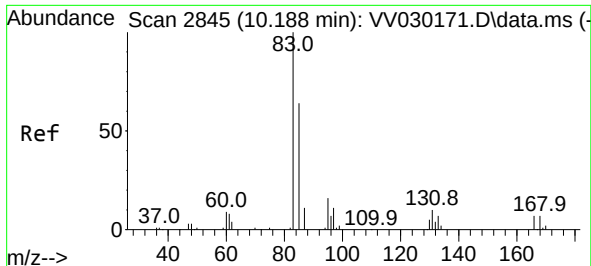


#55  
Styrene  
Concen: 5.186 ug/L  
RT: 9.503 min Scan# 2632  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion:104 Resp: 140684  
Ion Ratio Lower Upper  
104 100  
78 43.4 31.1 57.9







#57

1,1,2,2-Tetrachloroethane

Concen: 5.656 ug/L

RT: 10.188 min Scan# 2845

Delta R.T. 0.000 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005300

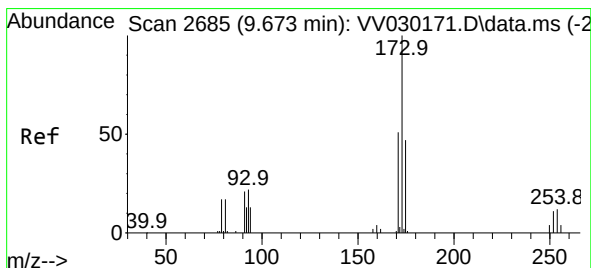
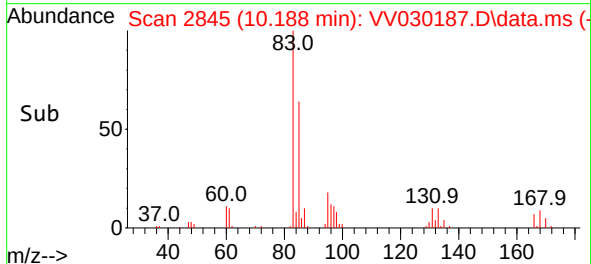
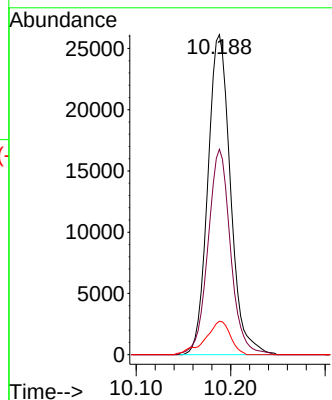
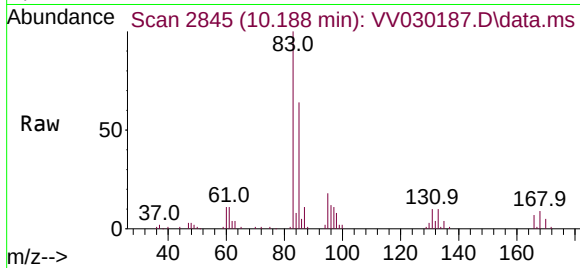
Tgt Ion: 83 Resp: 43414

Ion Ratio Lower Upper

83 100

85 64.2 45.0 83.6

131 10.5 8.2 12.4



#59

Bromoform

Concen: 5.172 ug/L

RT: 9.674 min Scan# 2685

Delta R.T. 0.000 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

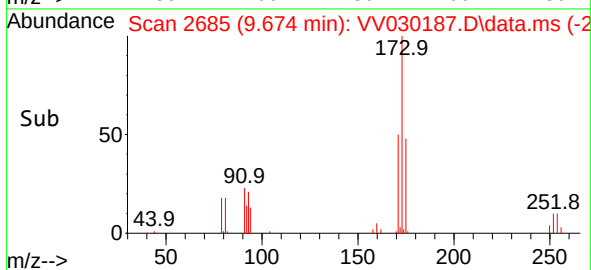
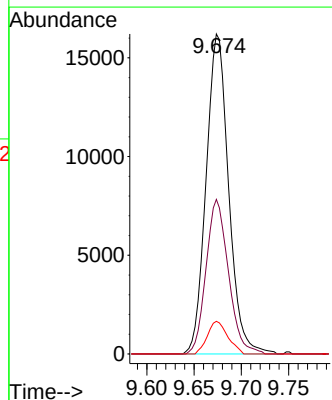
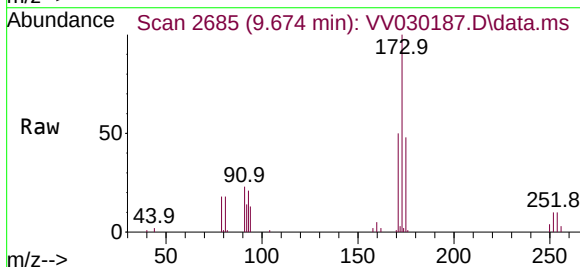
Tgt Ion: 173 Resp: 26918

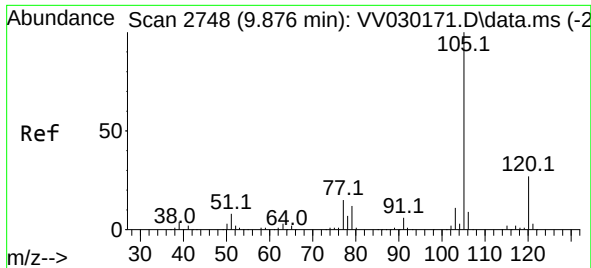
Ion Ratio Lower Upper

173 100

175 47.9 38.5 57.7

254 9.2 8.6 13.0

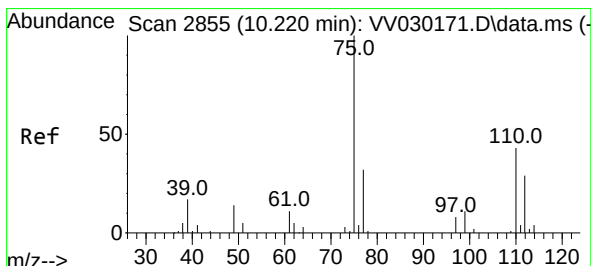
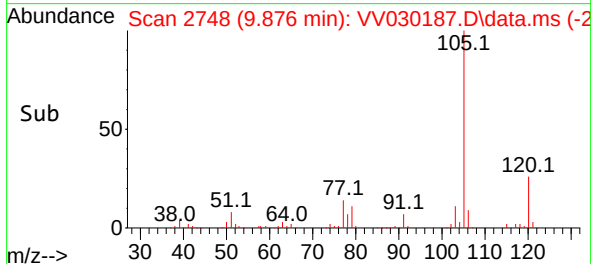
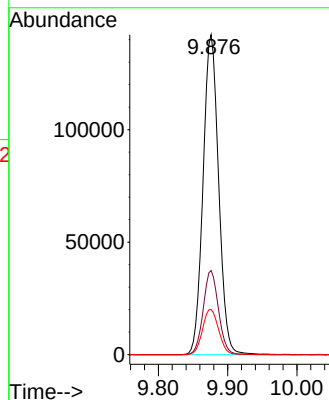
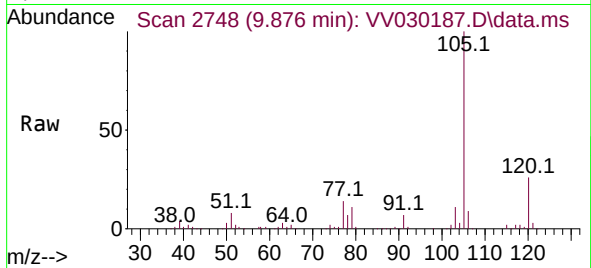




#60  
Isopropylbenzene  
Concen: 4.443 ug/L  
RT: 9.876 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

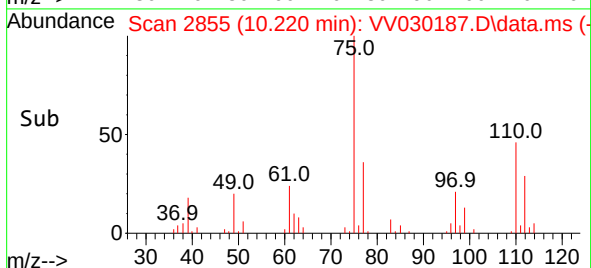
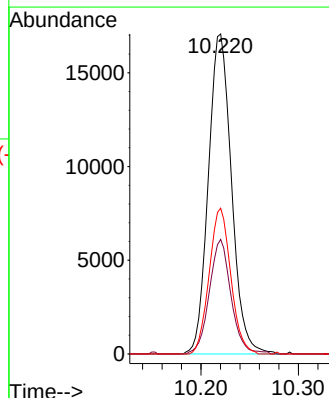
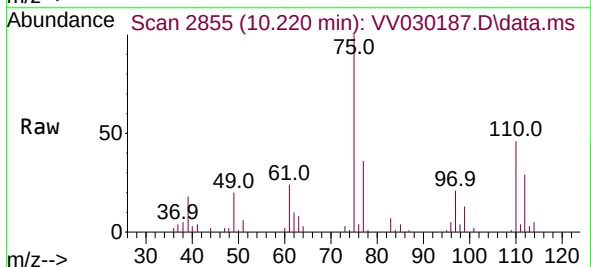
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

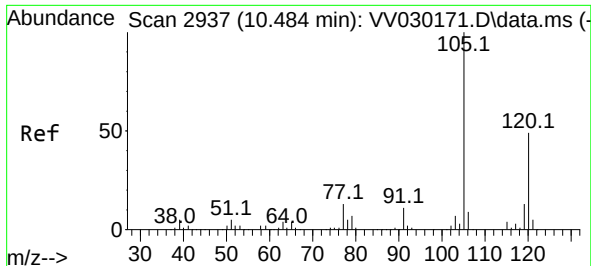
Tgt Ion:105 Resp: 221980  
Ion Ratio Lower Upper  
105 100  
120 25.8 21.4 32.0  
77 14.8 12.1 18.1



#61  
1,2,3-Trichloropropane  
Concen: 4.848 ug/L  
RT: 10.220 min Scan# 2855  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion: 75 Resp: 28178  
Ion Ratio Lower Upper  
75 100  
77 33.5 26.5 39.7  
110 42.5 31.8 47.6





#62

1,3,5-Trimethylbenzene

Concen: 4.228 ug/L

RT: 10.487 min Scan# 2937

Delta R.T. 0.003 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

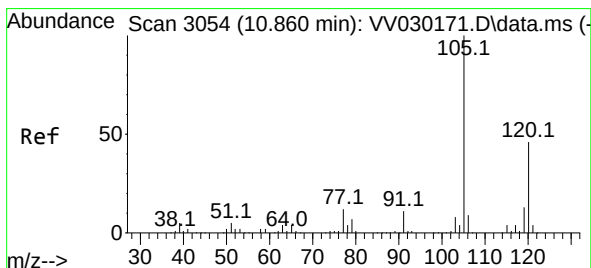
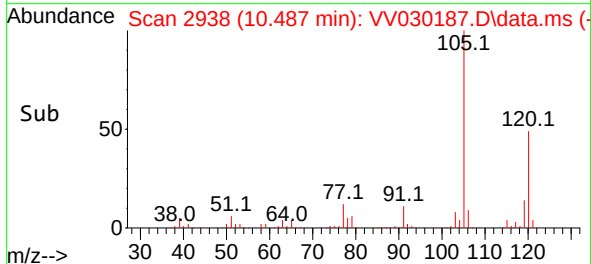
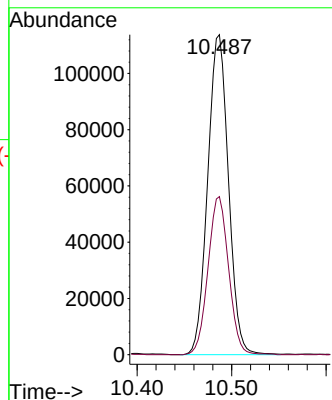
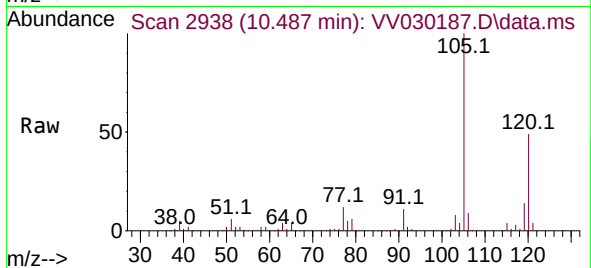
VSTD005300

Tgt Ion:105 Resp: 173513

Ion Ratio Lower Upper

105 100

120 49.0 39.6 59.4



#63

1,2,4-Trimethylbenzene

Concen: 4.351 ug/L

RT: 10.860 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VV030187.D

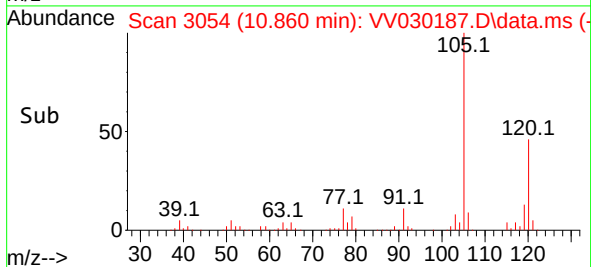
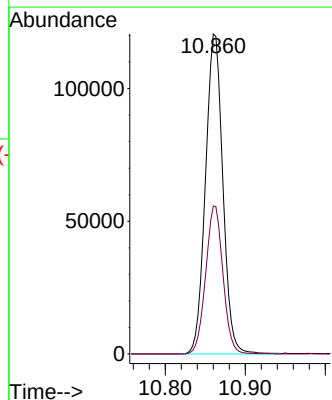
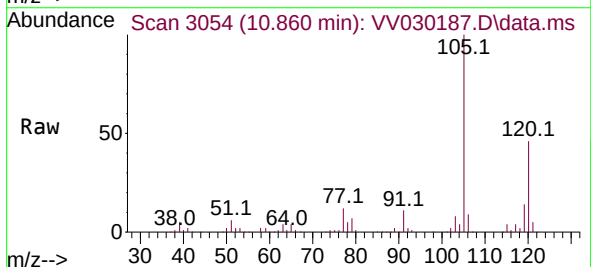
Acq: 14 Mar 2023 10:54

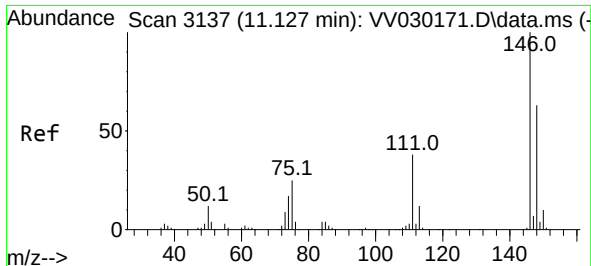
Tgt Ion:105 Resp: 182673

Ion Ratio Lower Upper

105 100

120 46.0 36.2 54.4

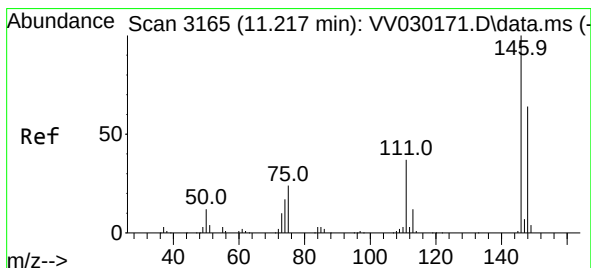
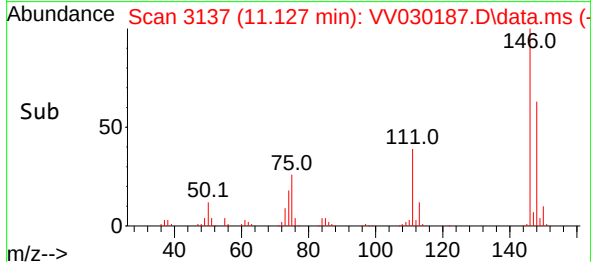
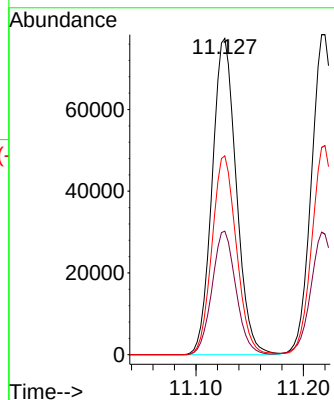
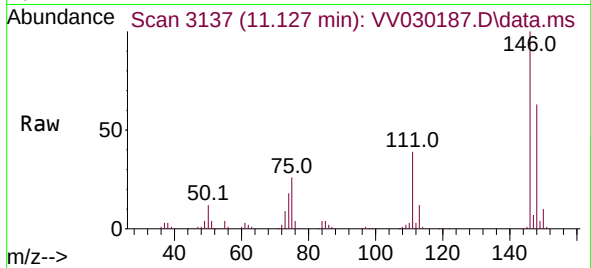




#64  
1,3-Dichlorobenzene  
Concen: 4.647 ug/L  
RT: 11.127 min Scan# 3137  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

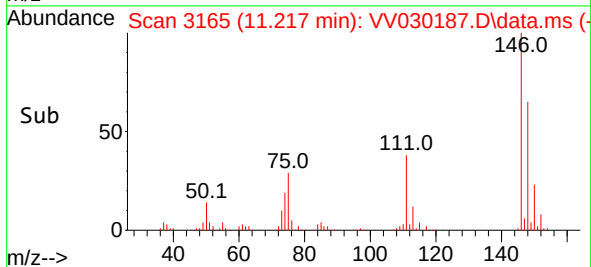
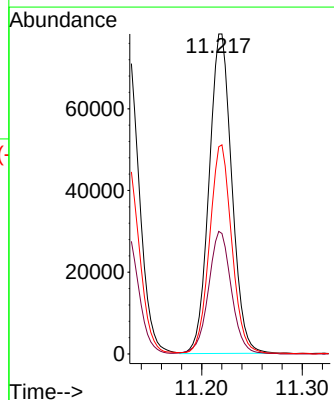
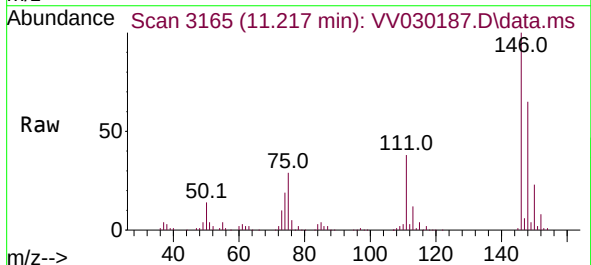
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005300

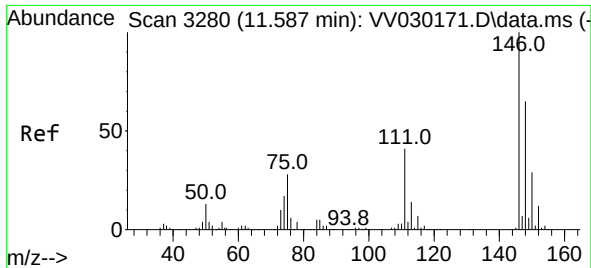
Tgt Ion:146 Resp: 120889  
Ion Ratio Lower Upper  
146 100  
111 39.1 27.7 51.5  
148 62.8 44.5 82.7



#65  
1,4-Dichlorobenzene  
Concen: 4.677 ug/L  
RT: 11.217 min Scan# 3165  
Delta R.T. 0.000 min  
Lab File: VV030187.D  
Acq: 14 Mar 2023 10:54

Tgt Ion:146 Resp: 122770  
Ion Ratio Lower Upper  
146 100  
111 38.3 27.4 51.0  
148 64.7 44.1 81.9

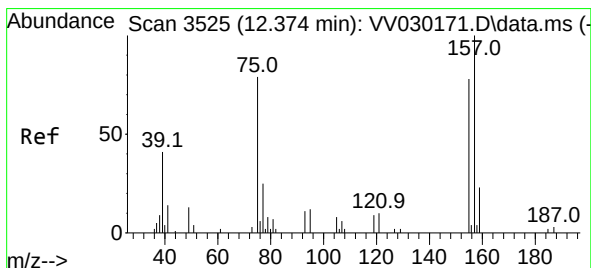
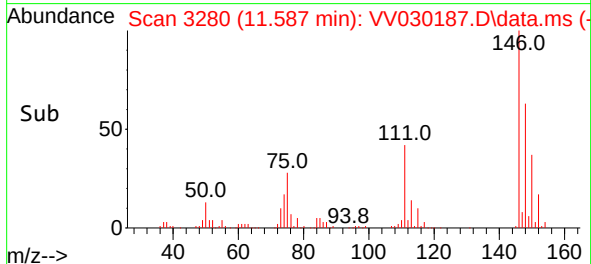
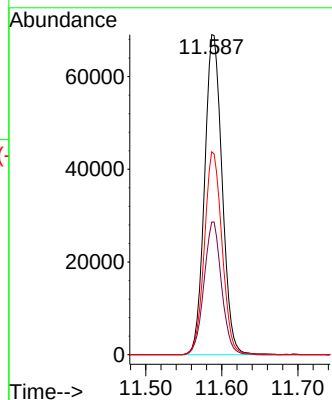
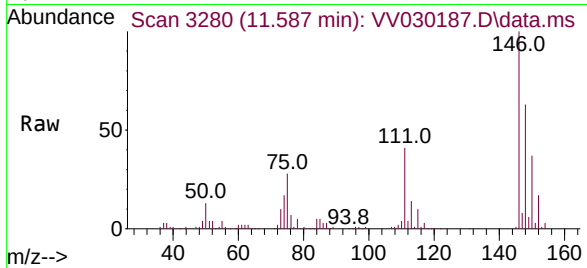




#67  
 1,2-Dichlorobenzene  
 Concen: 4.817 ug/L  
 RT: 11.587 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

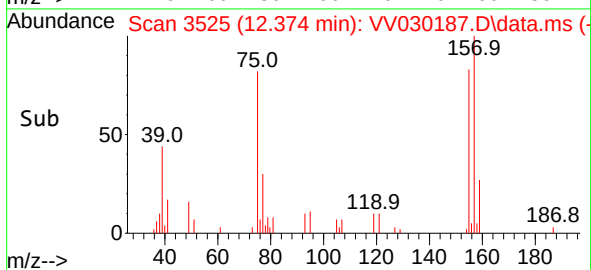
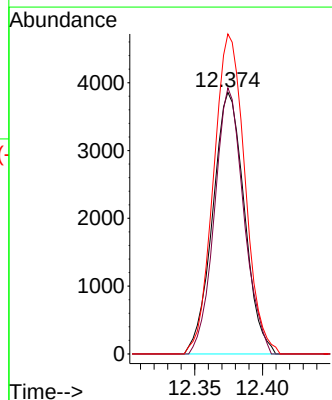
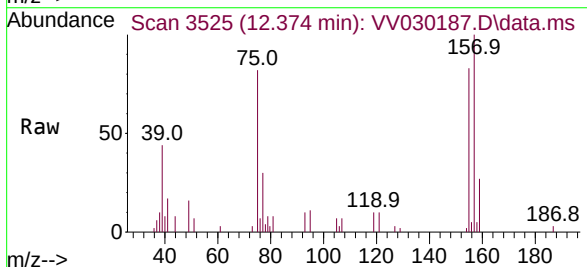
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005300

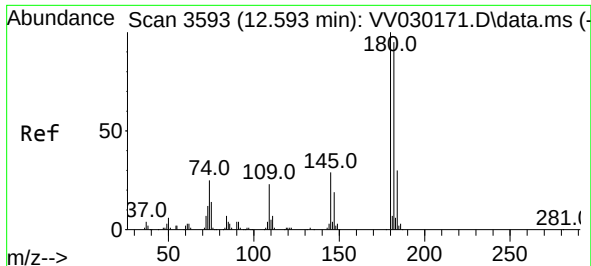
Tgt Ion:146 Resp: 110646  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 33.5 50.3  
 148 63.4 51.3 76.9



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.806 ug/L  
 RT: 12.374 min Scan# 3525  
 Delta R.T. 0.000 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

Tgt Ion: 75 Resp: 6239  
 Ion Ratio Lower Upper  
 75 100  
 155 101.7 79.1 118.7  
 157 122.3 95.5 143.3

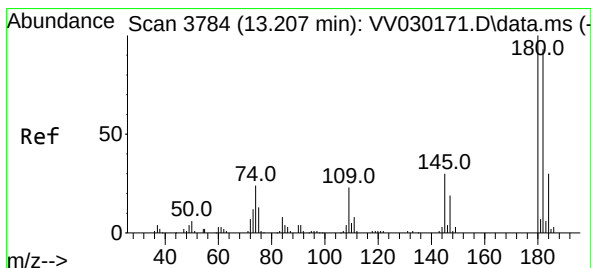
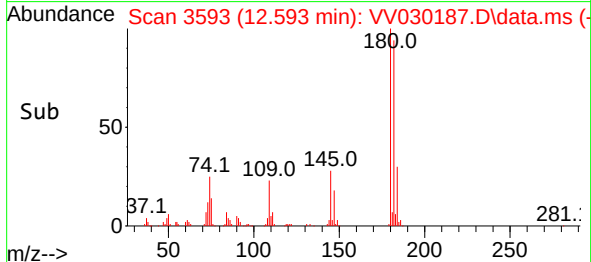
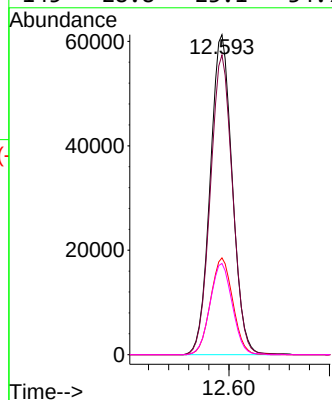
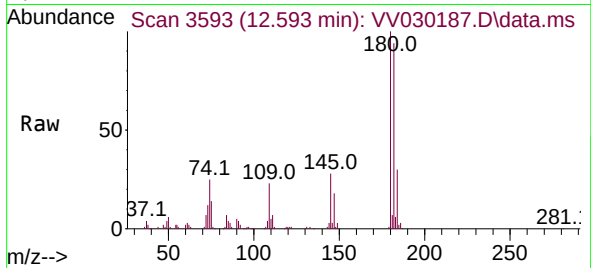




#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.361 ug/L  
 RT: 12.593 min Scan# 3593  
 Delta R.T. 0.000 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

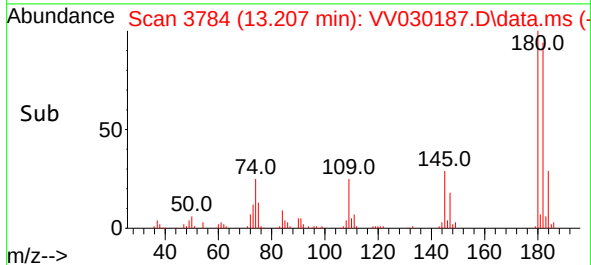
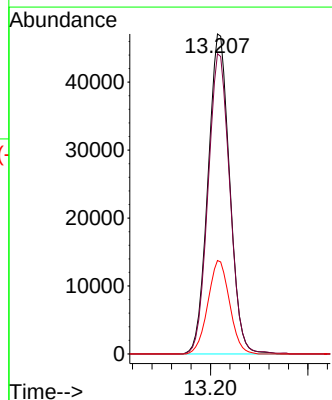
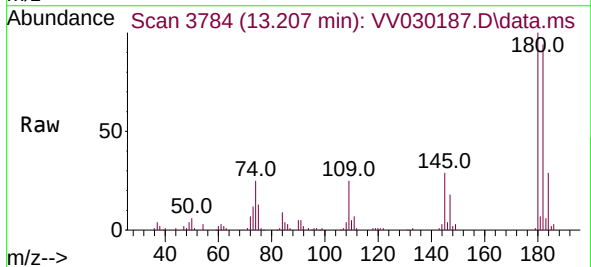
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005300

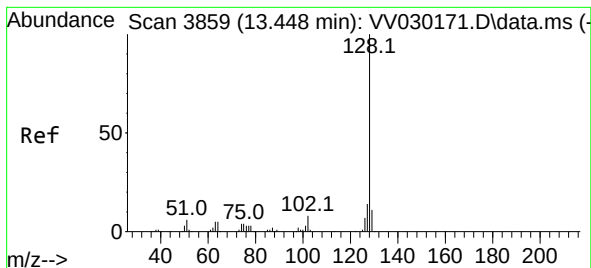
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 93281      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.4  | 76.5 114.7 |
| 184         | 30.5  | 24.3 36.5  |
| 145         | 28.8  | 23.1 34.7  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 4.181 ug/L  
 RT: 13.207 min Scan# 3784  
 Delta R.T. 0.000 min  
 Lab File: VV030187.D  
 Acq: 14 Mar 2023 10:54

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 72437      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.4  | 77.3 115.9 |
| 145         | 29.3  | 23.1 34.7  |





#71

Naphthalene

Concen: 3.981 ug/L

RT: 13.448 min Scan# 3859

Delta R.T. 0.000 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005300

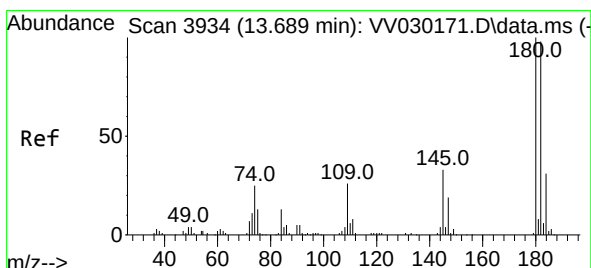
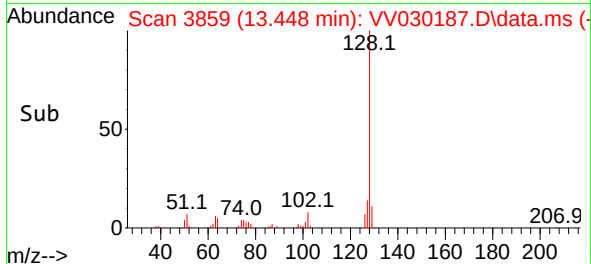
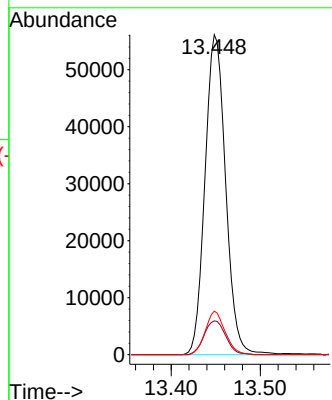
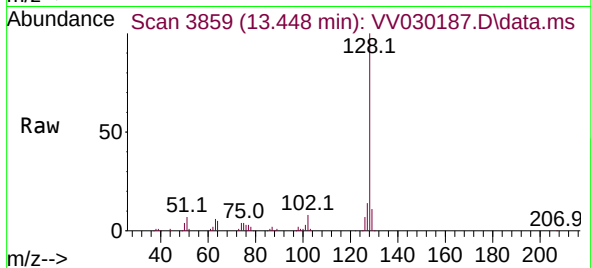
Tgt Ion:128 Resp: 90142

Ion Ratio Lower Upper

128 100

129 11.1 8.6 13.0

127 13.0 10.4 15.6



#72

1,2,3-Trichlorobenzene

Concen: 4.258 ug/L

RT: 13.693 min Scan# 3935

Delta R.T. 0.003 min

Lab File: VV030187.D

Acq: 14 Mar 2023 10:54

Tgt Ion:180 Resp: 60735

Ion Ratio Lower Upper

180 100

182 96.6 76.2 114.2

145 31.7 25.1 37.7

