

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032823\  
 Data File : VU053461.D  
 Acq On : 29 Mar 2023 03:13  
 Operator : JC/MD  
 Sample : VSTDCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050177

Quant Time: Mar 29 04:20:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM031523WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 29 02:16:14 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|---------|-------|----------|----------|--------|-----------|
| -----                         |         |       |          |          |        |           |
| Internal Standards            |         |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 200586   | 50.000   | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 192024   | 50.000   | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.806  | 152   | 100592   | 50.000   | ug/L   | 0.00      |
| System Monitoring Compounds   |         |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 84997    | 45.931   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 91.860%   |
| 7) Chloroethane-d5            | 1.912   | 69    | 68587    | 45.821   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 91.640%   |
| 11) 1,1-Dichloroethene-d2     | 2.568   | 63    | 141270   | 44.069   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.140%   |
| 21) 2-Butanone-d5             | 4.626   | 46    | 112947   | 131.597  | ug/L   | 0.00      |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 131.600%# |
| 24) Chloroform-d              | 5.057   | 84    | 147482   | 48.388   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.780%   |
| 26) 1,2-Dichloroethane-d4     | 5.697   | 65    | 94066    | 49.695   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.380%   |
| 32) Benzene-d6                | 5.722   | 84    | 288634   | 46.342   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.680%   |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 97653    | 48.579   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 97.160%   |
| 41) Toluene-d8                | 7.893   | 98    | 267414   | 46.115   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 92.240%   |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 45749    | 46.128   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 92.260%   |
| 47) 2-Hexanone-d5             | 8.629   | 63    | 65794    | 104.692  | ug/L   | 0.00      |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 104.690%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751  | 84    | 138030   | 53.006   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 106.020%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.188  | 152   | 103970   | 53.380   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 106.760%  |
| Target Compounds              |         |       |          |          |        |           |
|                               |         |       |          |          | Qvalue |           |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 90978    | 43.453   | ug/L   | 100       |
| 3) Chloromethane              | 1.520   | 50    | 95086    | 49.286   | ug/L   | 96        |
| 5) Vinyl chloride             | 1.604   | 62    | 98648    | 46.743   | ug/L   | 100       |
| 6) Bromomethane               | 1.858   | 94    | 56609    | 44.623   | ug/L   | 97        |
| 8) Chloroethane               | 1.935   | 64    | 60226    | 48.312   | ug/L   | 99        |
| 9) Trichlorofluoromethane     | 2.137   | 101   | 123565   | 46.926   | ug/L   | 100       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581   | 101   | 73802    | 46.333   | ug/L   | 96        |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 65180    | 44.247   | ug/L   | 94        |
| 13) Acetone                   | 2.639   | 43    | 76640    | 78.403   | ug/L   | 92        |
| 14) Carbon disulfide          | 2.793   | 76    | 168145   | 37.686   | ug/L   | 98        |
| 15) Methyl Acetate            | 2.948   | 43    | 85616    | 63.900   | ug/L   | 95        |
| 16) Methylene chloride        | 3.044   | 84    | 76779    | 42.963   | ug/L   | 98        |
| 17) trans-1,2-Dichloroethene  | 3.349   | 96    | 67132    | 44.915   | ug/L   | 97        |
| 18) Methyl tert-butyl Ether   | 3.356   | 73    | 235214   | 46.800   | ug/L   | 98        |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 140283   | 45.979   | ug/L   | 100       |
| 20) cis-1,2-Dichloroethene    | 4.661   | 96    | 81608    | 46.486   | ug/L   | 99        |
| 22) 2-Butanone                | 4.703   | 43    | 121318   | 108.938  | ug/L   | 91        |
| 23) Bromochloromethane        | 4.970   | 128   | 40713    | 48.638   | ug/L   | 96        |
| 25) Chloroform                | 5.083   | 83    | 142150   | 46.560   | ug/L   | 97        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032823\  
 Data File : VU053461.D  
 Acq On : 29 Mar 2023 03:13  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 42 Sample Multiplier: 1

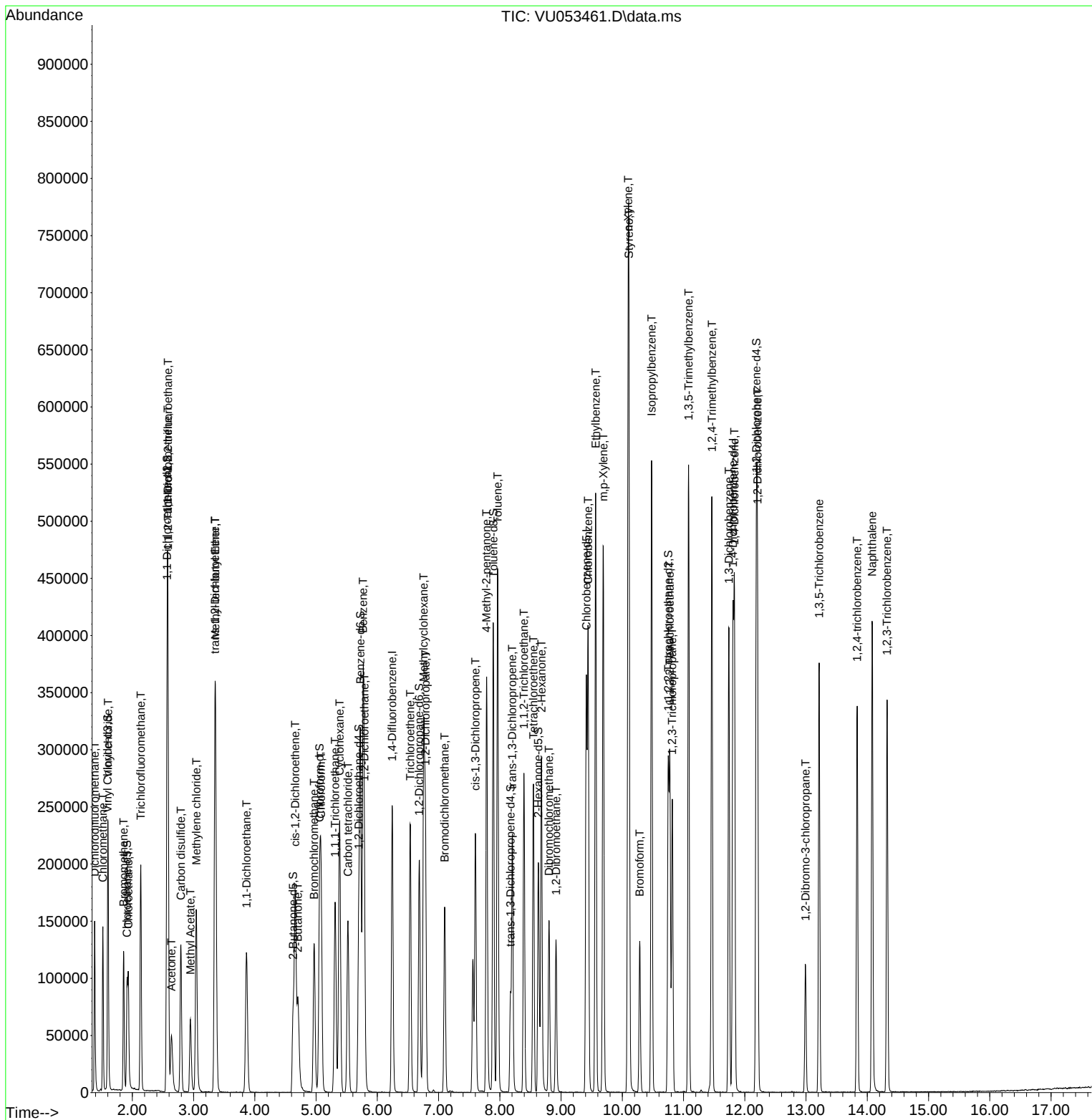
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050177

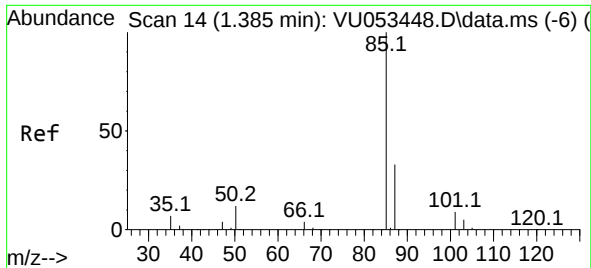
Quant Time: Mar 29 04:20:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM031523WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 29 02:16:14 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 115568   | 47.952  | ug/L   | 99       |
| 29) Cyclohexane               | 5.385  | 56   | 123631   | 43.209  | ug/L   | 97       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 117107   | 44.742  | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 93513    | 43.609  | ug/L   | 98       |
| 33) Benzene                   | 5.767  | 78   | 308066   | 46.275  | ug/L   | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 78917    | 45.463  | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.758  | 83   | 124150   | 40.802  | ug/L   | 96       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 87745    | 47.242  | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.099  | 83   | 102418   | 44.309  | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene   | 7.603  | 75   | 129858   | 42.555  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.783  | 43   | 241001   | 126.239 | ug/L   | 93       |
| 42) Toluene                   | 7.963  | 91   | 328685   | 45.924  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 123391   | 44.235  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 8.394  | 97   | 81929    | 48.443  | ug/L   | 97       |
| 46) Tetrachloroethene         | 8.549  | 164  | 54887    | 48.601  | ug/L   | 96       |
| 48) 2-Hexanone                | 8.680  | 43   | 186952   | 116.944 | ug/L   | 94       |
| 49) Dibromochloromethane      | 8.803  | 129  | 75406    | 43.586  | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.918  | 107  | 88289    | 48.993  | ug/L # | 98       |
| 51) Chlorobenzene             | 9.442  | 112  | 208770   | 46.802  | ug/L   | 99       |
| 52) Ethylbenzene              | 9.565  | 91   | 367000   | 45.217  | ug/L   | 97       |
| 53) m,p-Xylene                | 9.690  | 106  | 135110   | 44.601  | ug/L   | 99       |
| 54) o-Xylene                  | 10.095 | 106  | 134414   | 44.863  | ug/L   | 99       |
| 55) Styrene                   | 10.108 | 104  | 229380   | 45.936  | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.774 | 83   | 142239   | 51.297  | ug/L   | 97       |
| 59) Bromoform                 | 10.285 | 173  | 56627    | 49.467  | ug/L   | 98       |
| 60) 1,2,3-Trichloropropane    | 10.815 | 75   | 106702   | 53.381  | ug/L   | 99       |
| 61) Isopropylbenzene          | 10.478 | 105  | 355652   | 44.748  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.082 | 105  | 292402   | 44.445  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 283409   | 44.195  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.741 | 146  | 160951   | 48.286  | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.831 | 146  | 163513   | 48.864  | ug/L   | 94       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 164351   | 49.331  | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 27208    | 49.224  | ug/L   | 89       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 110963   | 52.506  | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 99813    | 52.564  | ug/L   | 97       |
| 71) Naphthalene               | 14.079 | 128  | 329609   | 51.500  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.323 | 180  | 100353   | 55.728  | ug/L   | 97       |

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

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Response via : Initial Calibration

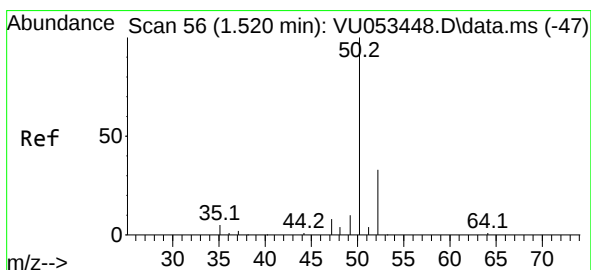
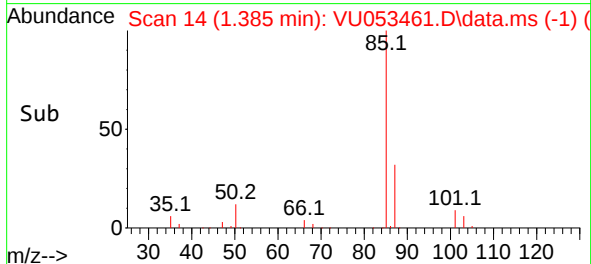
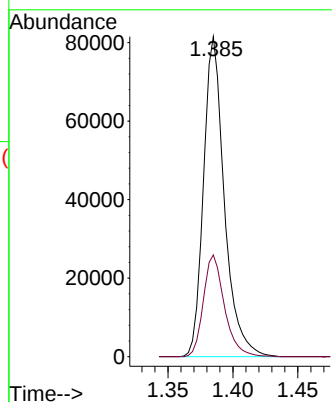
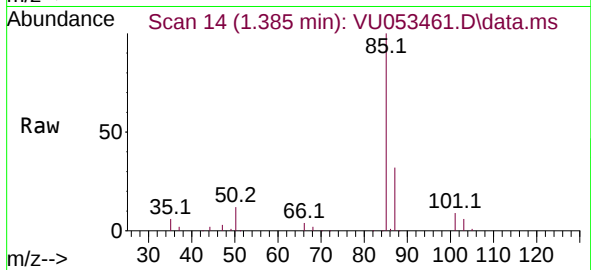




#2  
Dichlorodifluoromethane  
Concen: 43.453 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

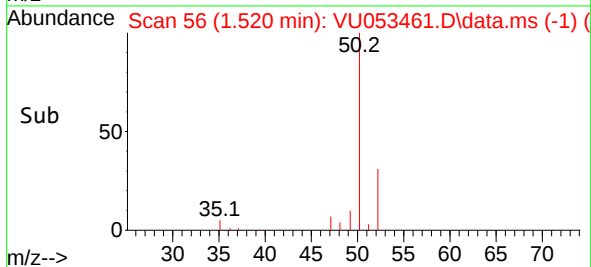
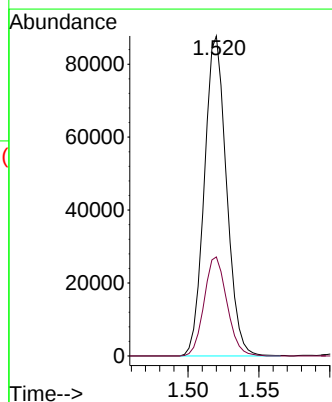
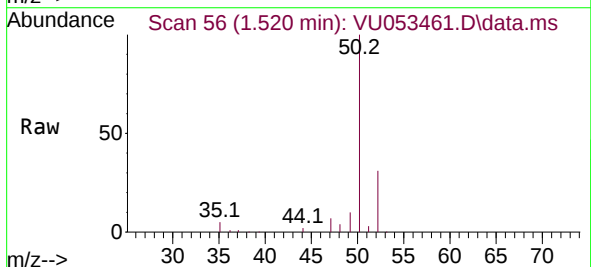
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

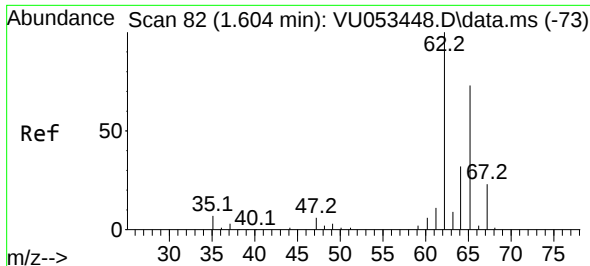
Tgt Ion: 85 Resp: 90978  
Ion Ratio Lower Upper  
85 100  
87 32.1 25.8 38.8



#3  
Chloromethane  
Concen: 49.286 ug/L  
RT: 1.520 min Scan# 56  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 50 Resp: 95086  
Ion Ratio Lower Upper  
50 100  
52 30.9 23.4 43.4

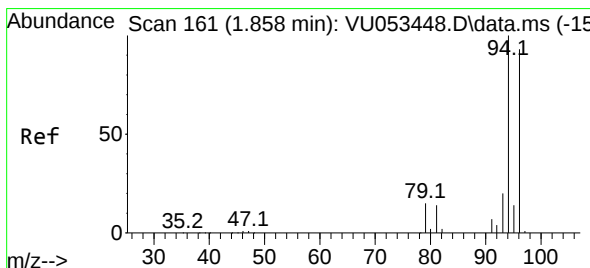
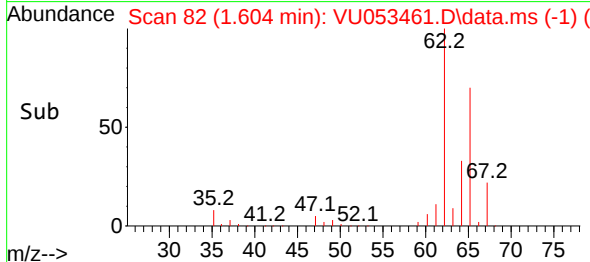
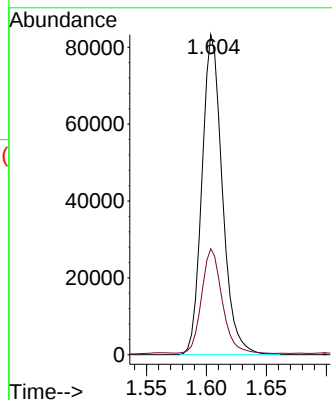
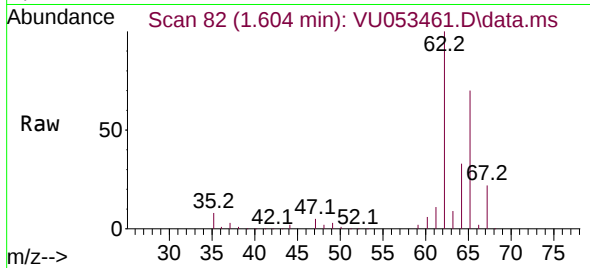




#5  
 Vinyl chloride  
 Concen: 46.743 ug/L  
 RT: 1.604 min Scan# 82  
 Delta R.T. -0.000 min  
 Lab File: VU053461.D  
 Acq: 29 Mar 2023 03:13

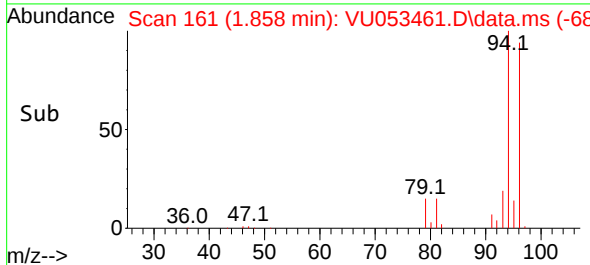
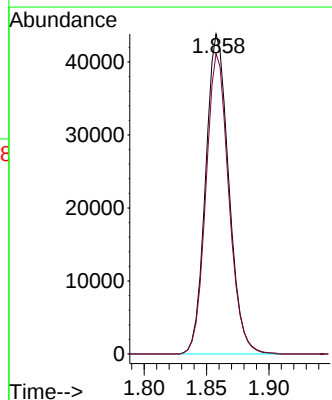
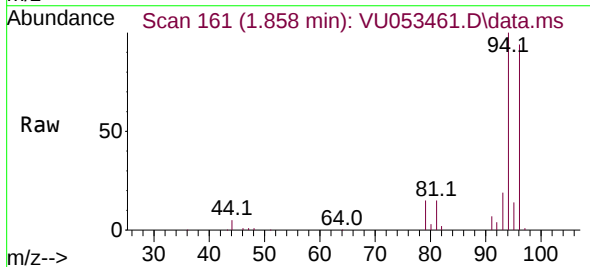
Instrument :  
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 ClientSampleId :  
 VSTD050177

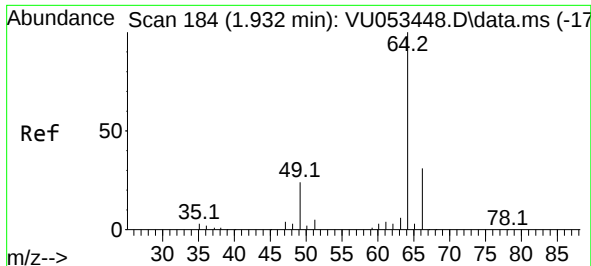
Tgt Ion: 62 Resp: 98648  
 Ion Ratio Lower Upper  
 62 100  
 64 33.1 23.2 43.0



#6  
 Bromomethane  
 Concen: 44.623 ug/L  
 RT: 1.858 min Scan# 161  
 Delta R.T. -0.000 min  
 Lab File: VU053461.D  
 Acq: 29 Mar 2023 03:13

Tgt Ion: 94 Resp: 56609  
 Ion Ratio Lower Upper  
 94 100  
 96 93.9 67.5 125.3

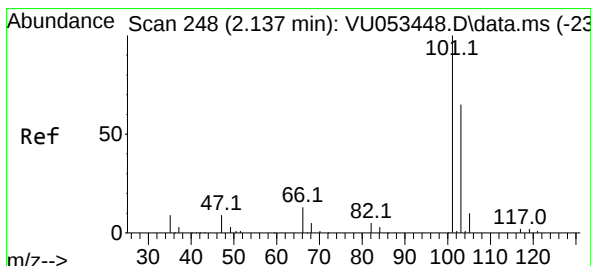
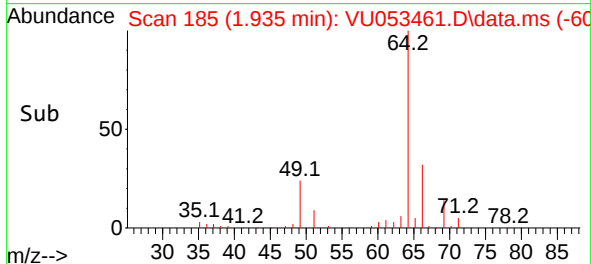
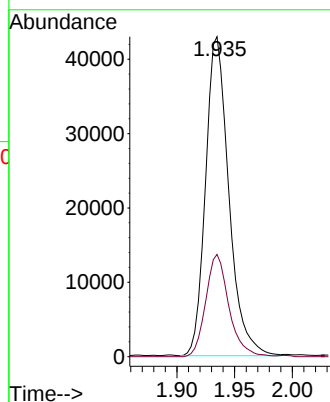
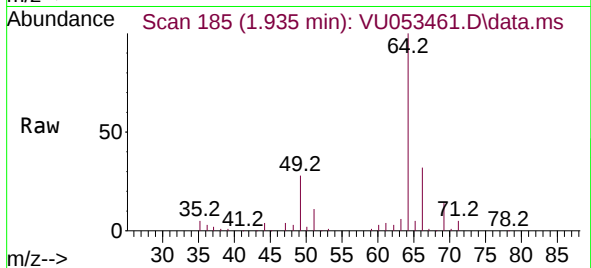




#8  
Chloroethane  
Concen: 48.312 ug/L  
RT: 1.935 min Scan# 184  
Delta R.T. 0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

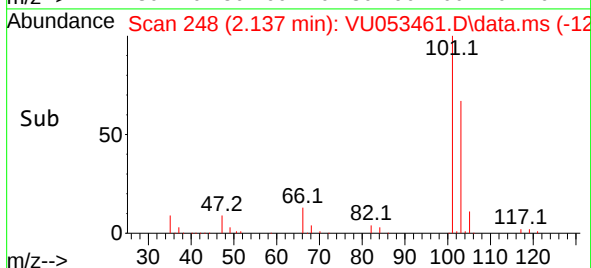
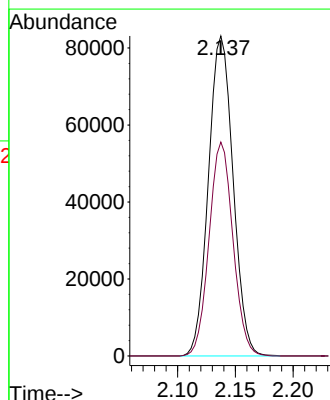
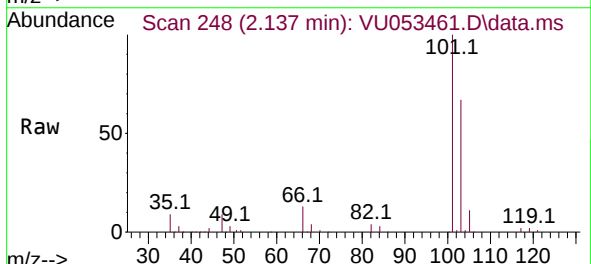
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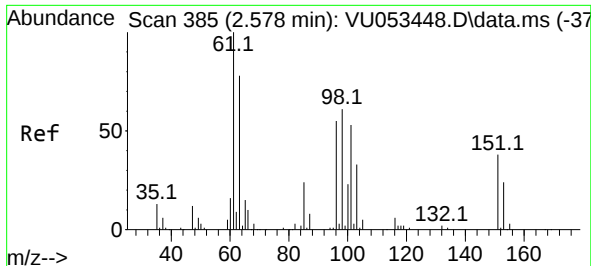
Tgt Ion: 64 Resp: 60226  
Ion Ratio Lower Upper  
64 100  
66 32.0 22.6 42.0



#9  
Trichlorofluoromethane  
Concen: 46.926 ug/L  
RT: 2.137 min Scan# 248  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion:101 Resp: 123565  
Ion Ratio Lower Upper  
101 100  
103 64.7 52.0 78.0

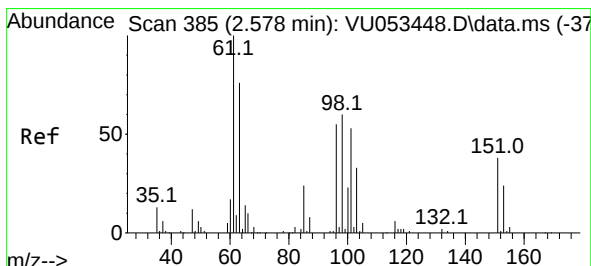
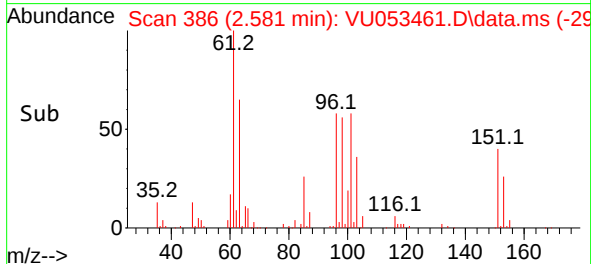
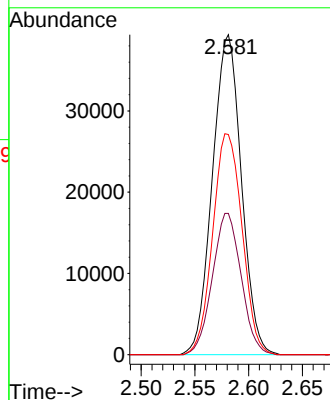
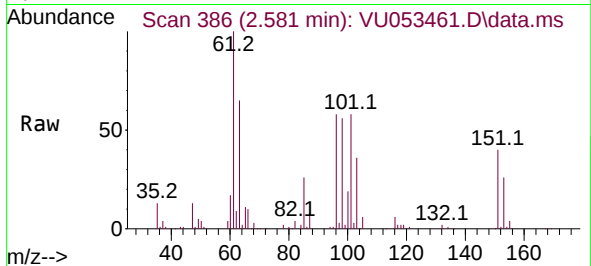




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 46.333 ug/L  
RT: 2.581 min Scan# 386  
Delta R.T. 0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

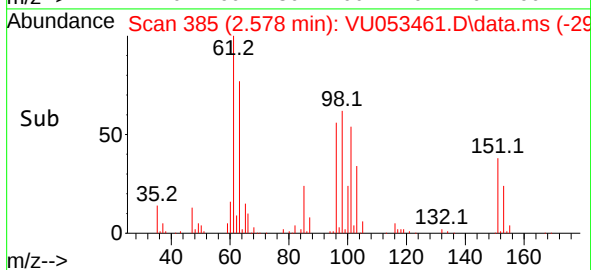
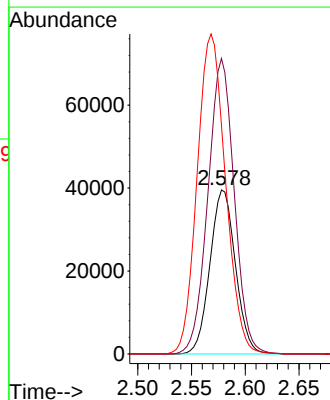
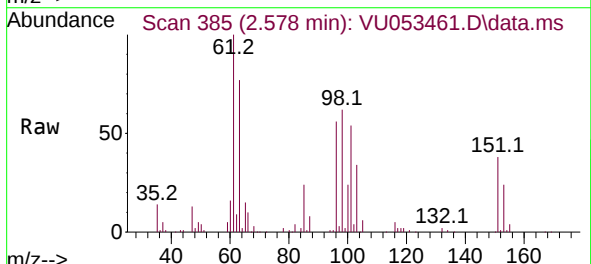
Instrument :  
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ClientSampleId :  
VSTD050177

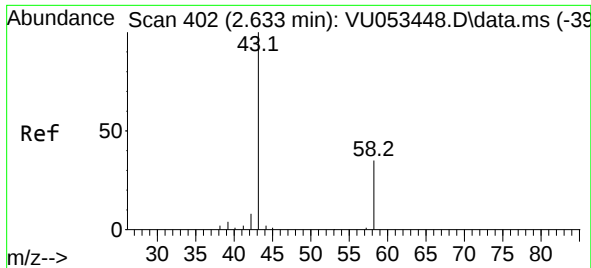
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Ion Ratio Lower Upper  
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85 43.8 37.0 55.6  
151 70.0 52.9 79.3



#12  
1,1-Dichloroethene  
Concen: 44.247 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 96 Resp: 65180  
Ion Ratio Lower Upper  
96 100  
61 180.2 122.2 226.9  
63 139.4 89.9 166.9





#13

Acetone

Concen: 78.403 ug/L

RT: 2.639 min Scan# 402

Delta R.T. 0.006 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

Instrument :

MSVOA\_U

ClientSampleId :

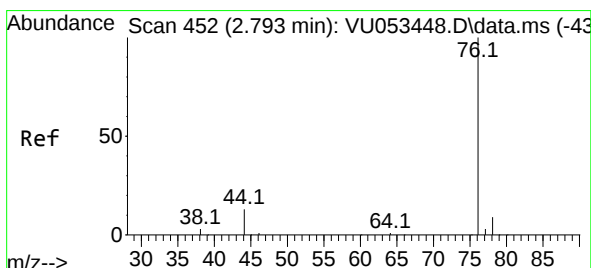
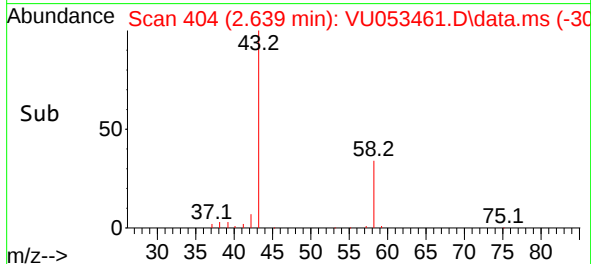
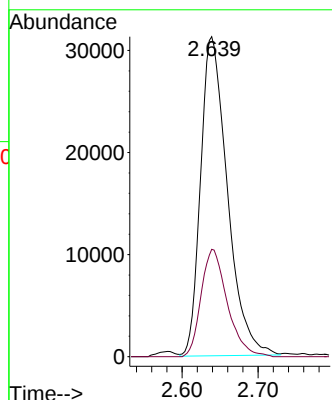
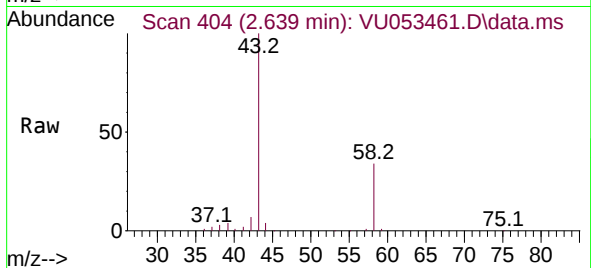
VSTD050177

Tgt Ion: 43 Resp: 76640

Ion Ratio Lower Upper

43 100

58 32.9 0.0 75.0



#14

Carbon disulfide

Concen: 37.686 ug/L

RT: 2.793 min Scan# 452

Delta R.T. -0.000 min

Lab File: VU053461.D

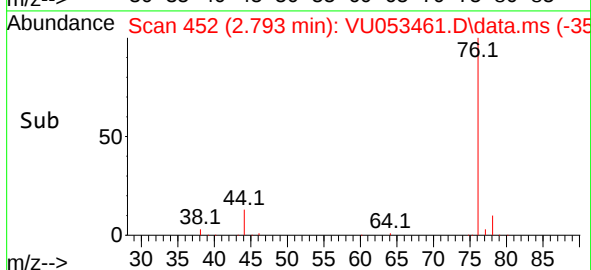
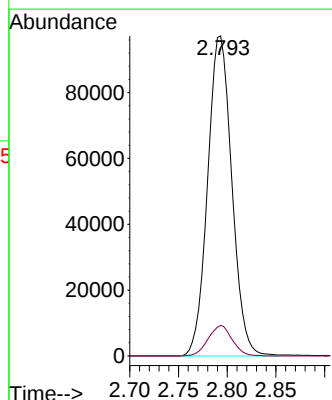
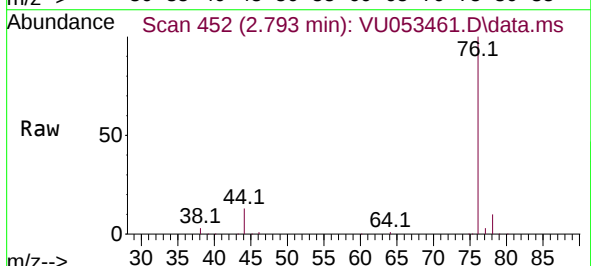
Acq: 29 Mar 2023 03:13

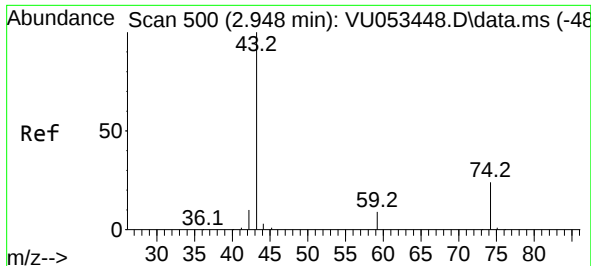
Tgt Ion: 76 Resp: 168145

Ion Ratio Lower Upper

76 100

78 9.5 7.0 10.6

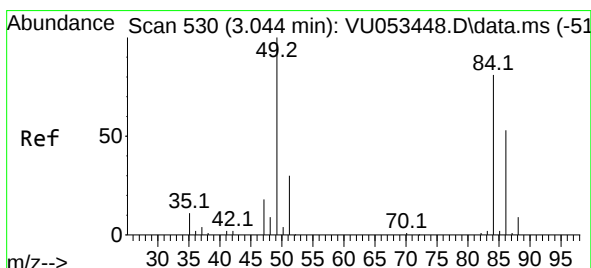
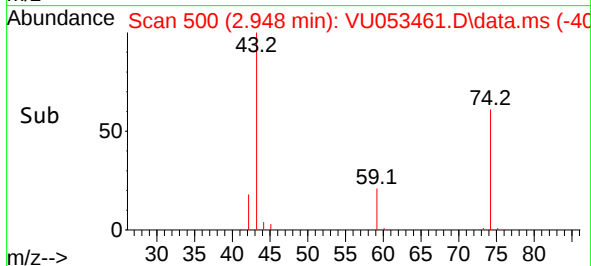
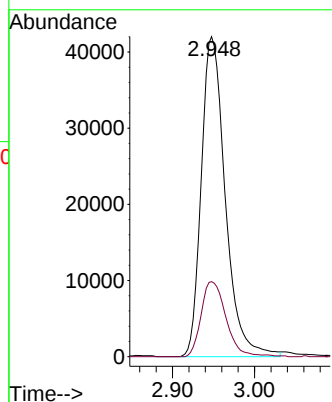
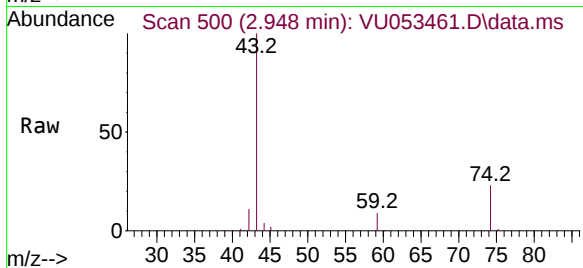




#15  
Methyl Acetate  
Concen: 63.900 ug/L  
RT: 2.948 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

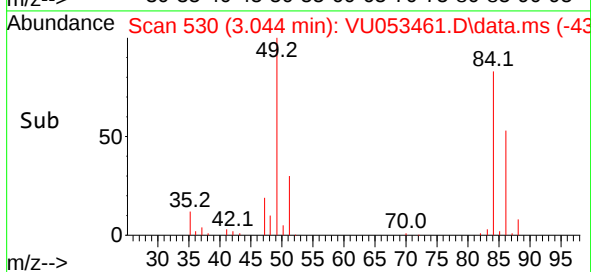
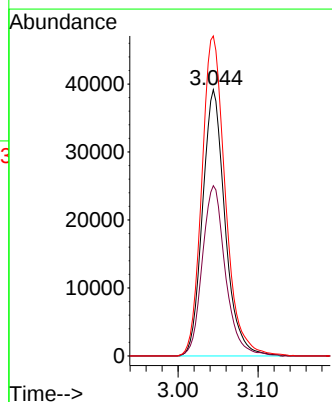
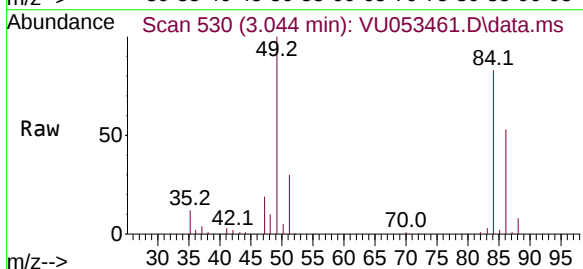
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

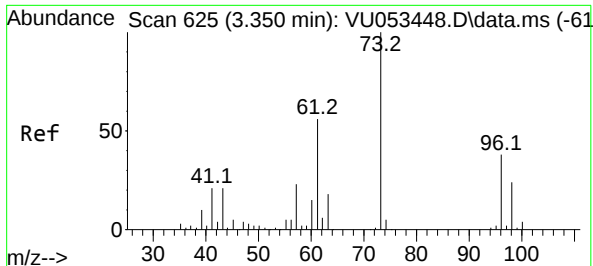
Tgt Ion: 43 Resp: 85616  
Ion Ratio Lower Upper  
43 100  
74 24.0 21.4 32.0



#16  
Methylene chloride  
Concen: 42.963 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 84 Resp: 76779  
Ion Ratio Lower Upper  
84 100  
86 63.9 44.4 82.4  
49 120.2 81.6 151.6





#17

trans-1,2-Dichloroethene

Concen: 44.915 ug/L

RT: 3.349 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050177

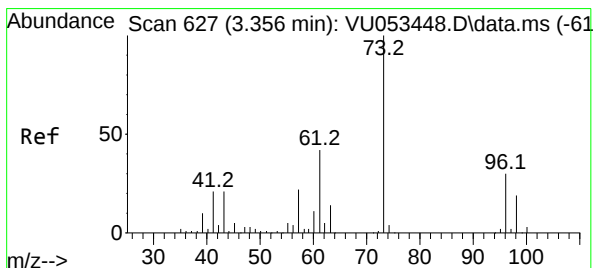
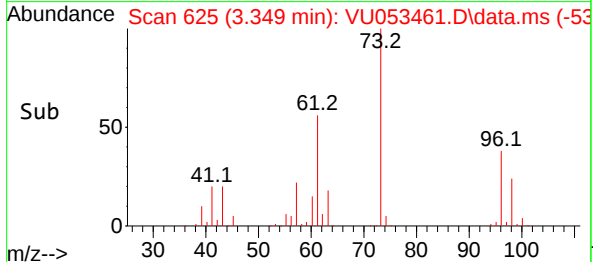
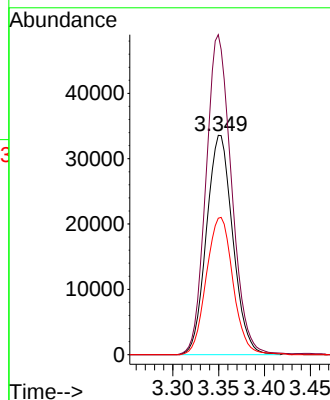
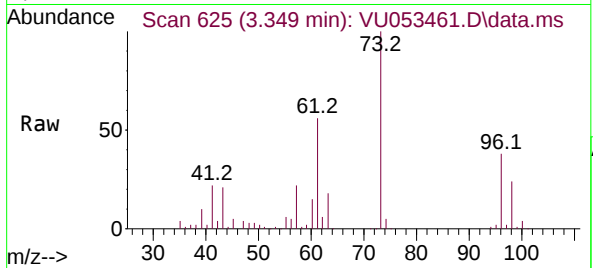
Tgt Ion: 96 Resp: 67132

Ion Ratio Lower Upper

96 100

61 145.9 99.6 185.0

98 62.2 45.5 84.5



#18

Methyl tert-butyl Ether

Concen: 46.800 ug/L

RT: 3.356 min Scan# 627

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

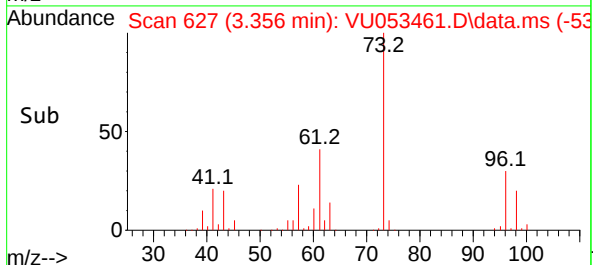
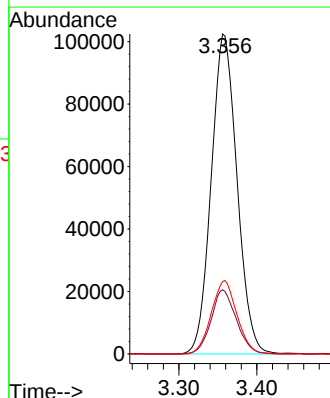
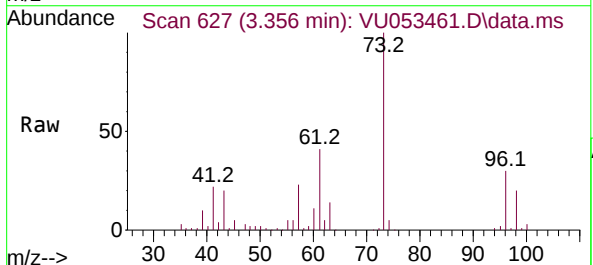
Tgt Ion: 73 Resp: 235214

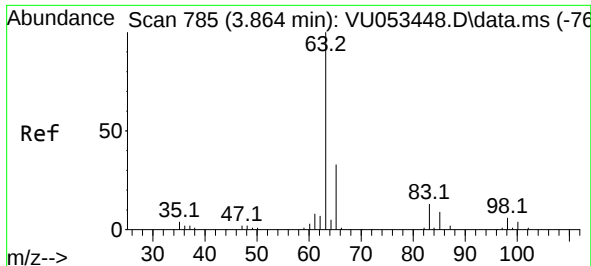
Ion Ratio Lower Upper

73 100

43 19.7 14.2 21.2

57 22.8 18.0 27.0

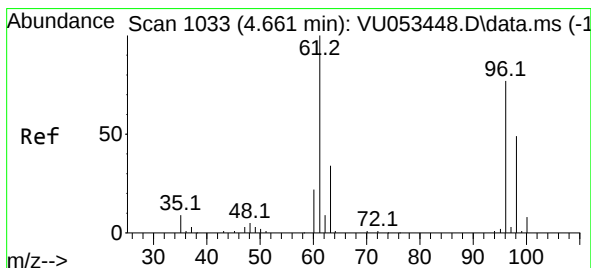
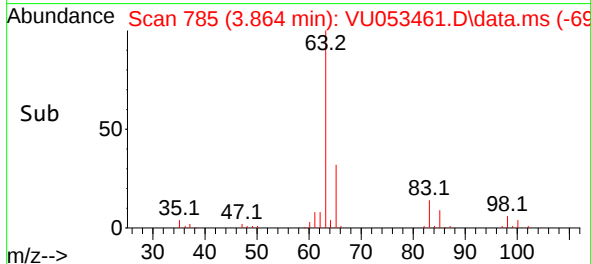
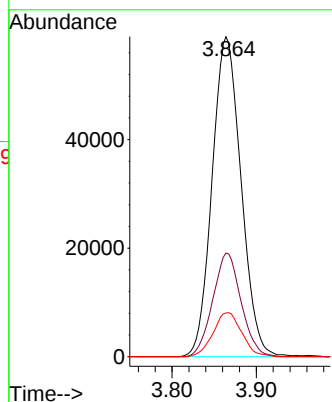
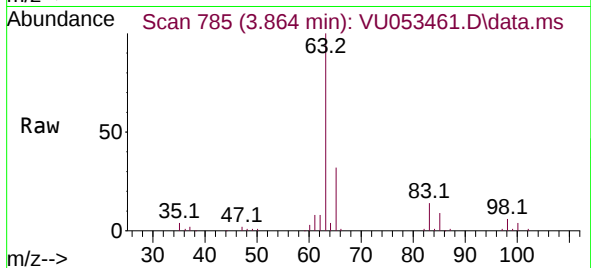




#19  
1,1-Dichloroethane  
Concen: 45.979 ug/L  
RT: 3.864 min Scan# 785  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

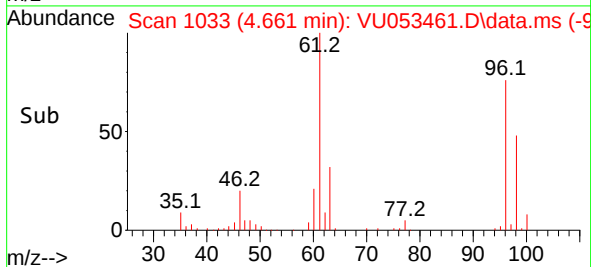
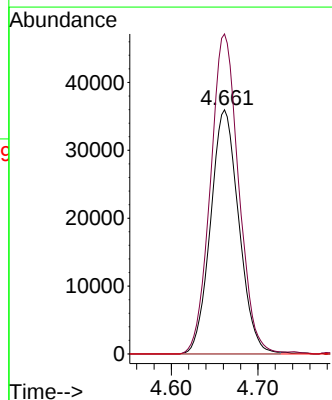
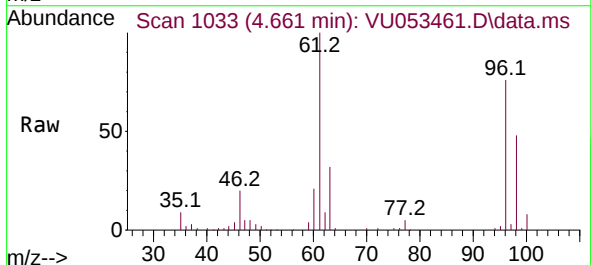
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

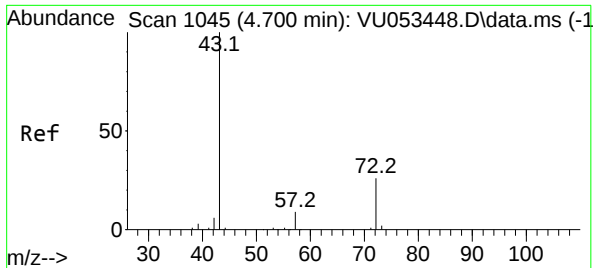
Tgt Ion: 63 Resp: 140283  
Ion Ratio Lower Upper  
63 100  
65 32.4 22.8 42.4  
83 13.7 9.4 17.6



#20  
cis-1,2-Dichloroethene  
Concen: 46.486 ug/L  
RT: 4.661 min Scan# 1033  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 96 Resp: 81608  
Ion Ratio Lower Upper  
96 100  
61 131.0 92.5 171.7  
68 0.0 0.0 0.0

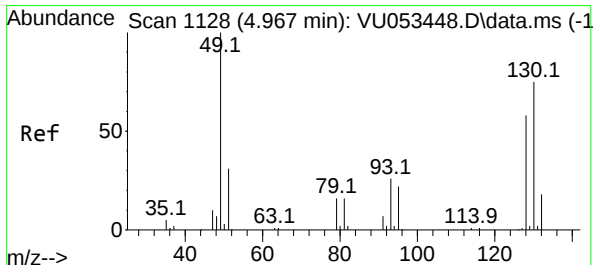
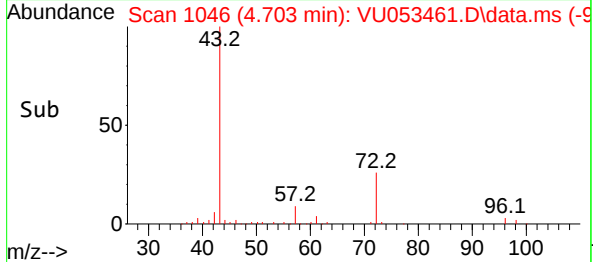
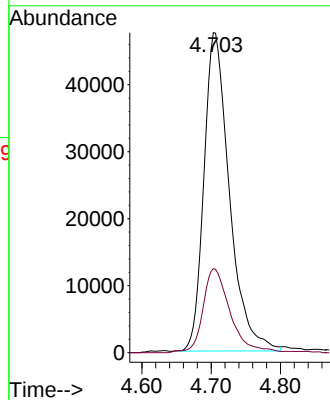
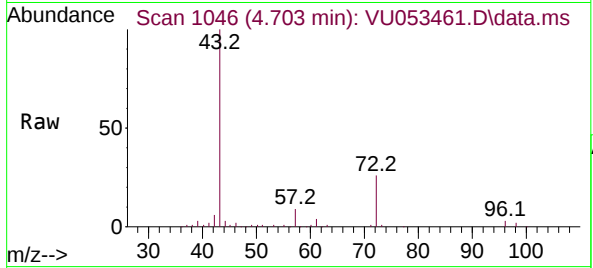




#22  
2-Butanone  
Concen: 108.938 ug/L  
RT: 4.703 min Scan# 110  
Delta R.T. 0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

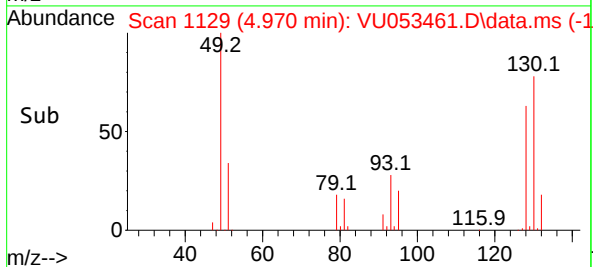
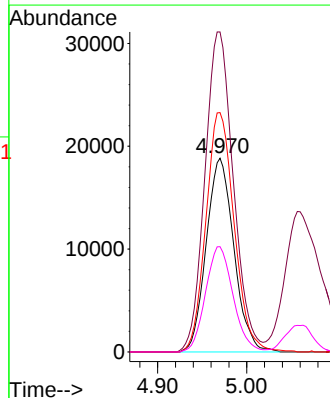
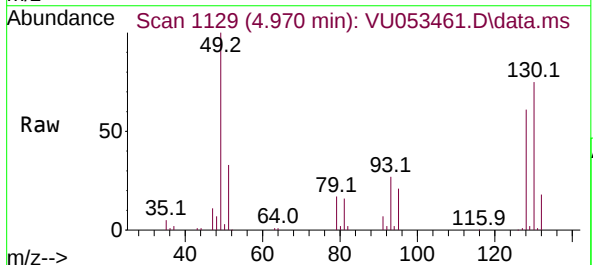
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

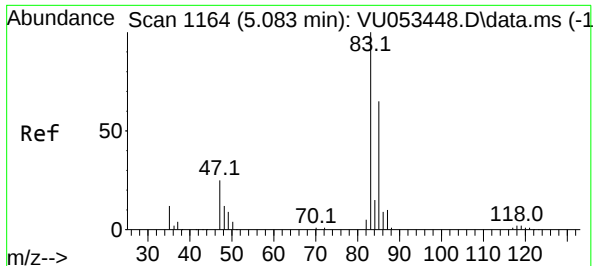
Tgt Ion: 43 Resp: 121318  
Ion Ratio Lower Upper  
43 100  
72 27.1 16.0 47.9



#23  
Bromochloromethane  
Concen: 48.638 ug/L  
RT: 4.970 min Scan# 1129  
Delta R.T. 0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion:128 Resp: 40713  
Ion Ratio Lower Upper  
128 100  
49 165.2 109.9 204.1  
130 123.6 87.2 161.9  
51 54.4 41.1 61.7

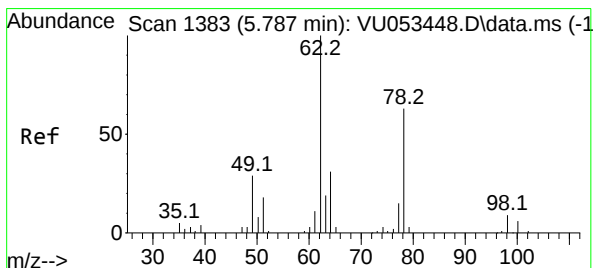
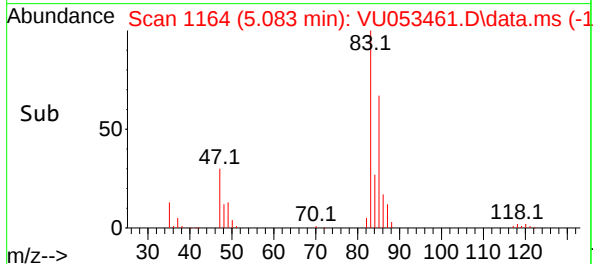
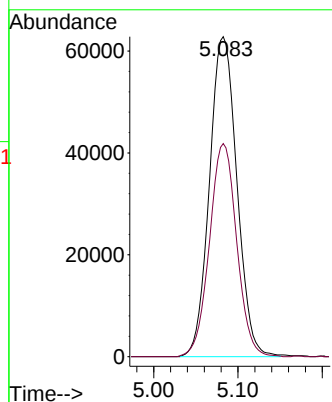
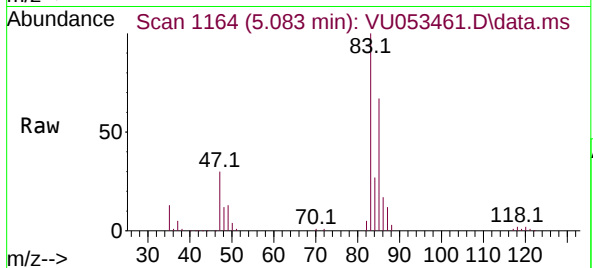




#25  
Chloroform  
Concen: 46.560 ug/L  
RT: 5.083 min Scan# 1164  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

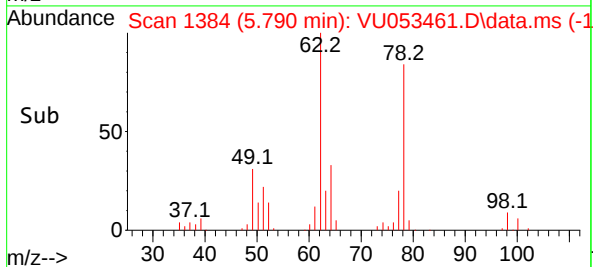
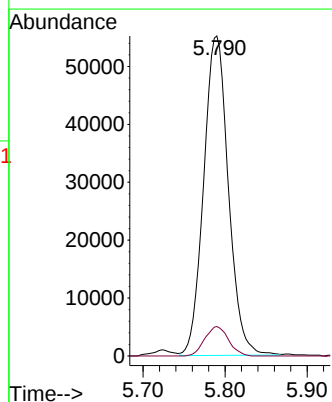
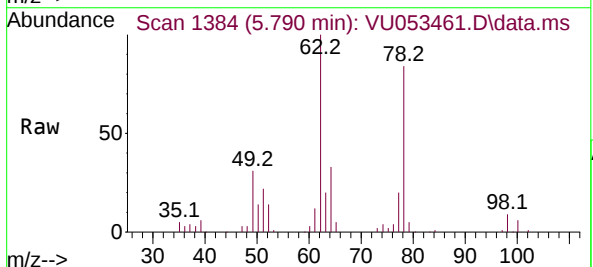
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

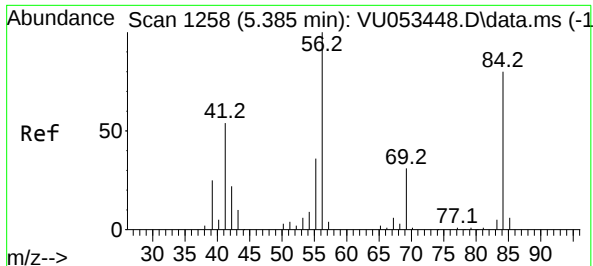
Tgt Ion: 83 Resp: 142150  
Ion Ratio Lower Upper  
83 100  
85 66.6 44.9 83.3



#27  
1,2-Dichloroethane  
Concen: 47.952 ug/L  
RT: 5.790 min Scan# 1384  
Delta R.T. 0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 62 Resp: 115568  
Ion Ratio Lower Upper  
62 100  
98 9.2 7.0 10.6





#29

Cyclohexane

Concen: 43.209 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050177

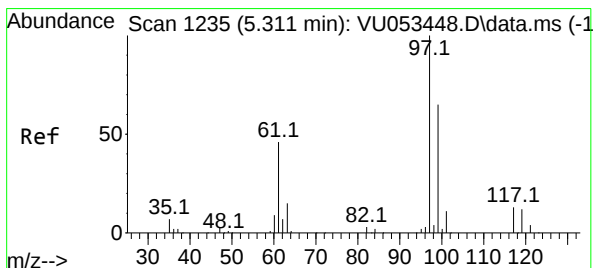
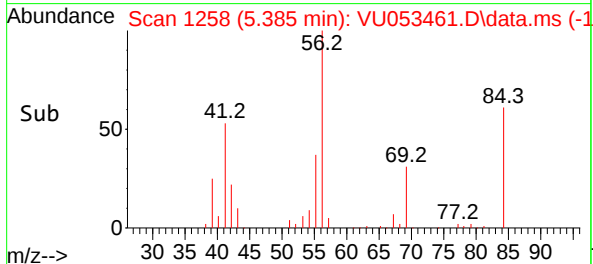
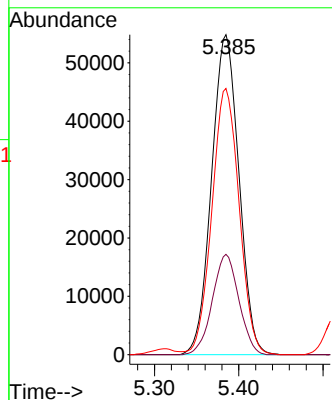
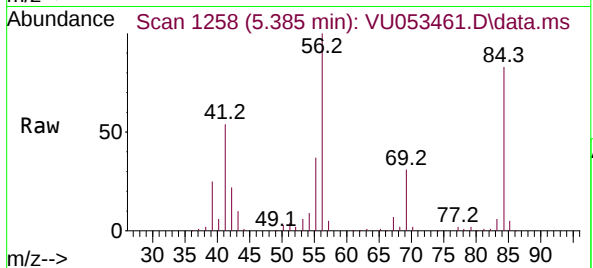
Tgt Ion: 56 Resp: 123631

Ion Ratio Lower Upper

56 100

69 30.3 25.4 38.0

84 82.9 69.0 103.6



#30

1,1,1-Trichloroethane

Concen: 44.742 ug/L

RT: 5.311 min Scan# 1235

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

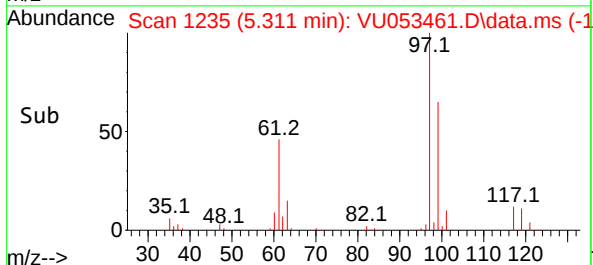
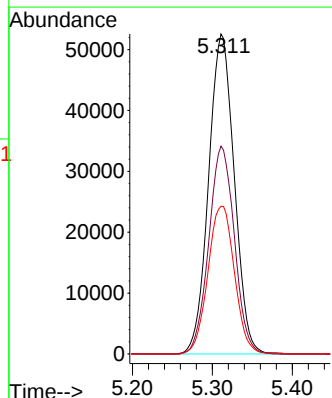
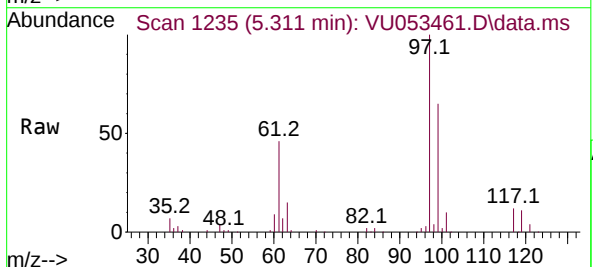
Tgt Ion: 97 Resp: 117107

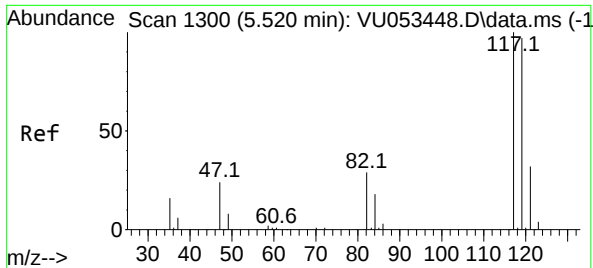
Ion Ratio Lower Upper

97 100

99 64.8 50.6 76.0

61 47.8 36.0 54.0

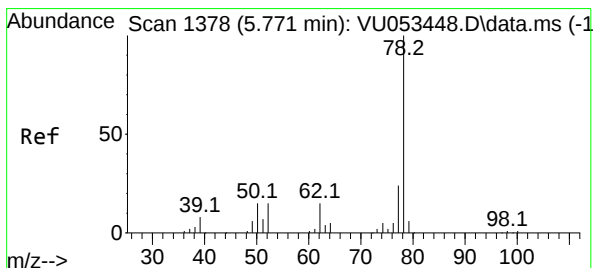
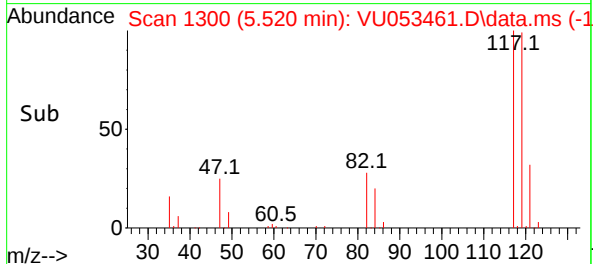
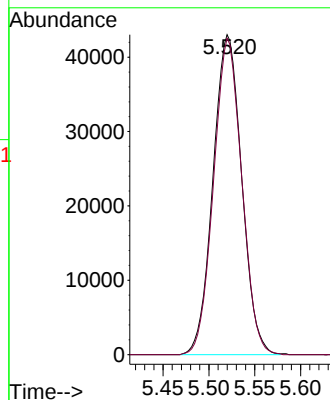
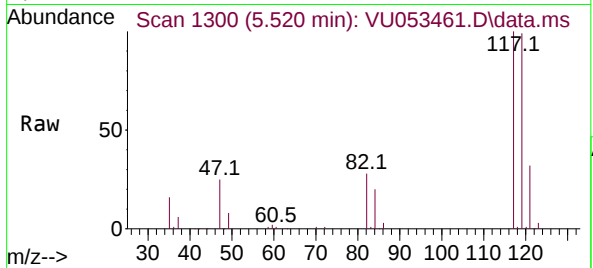




#31  
Carbon tetrachloride  
Concen: 43.609 ug/L  
RT: 5.520 min Scan# 1171  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

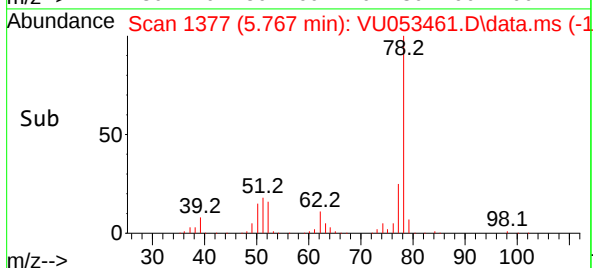
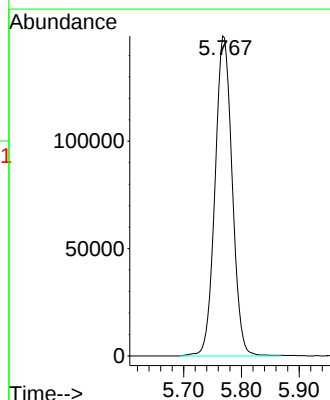
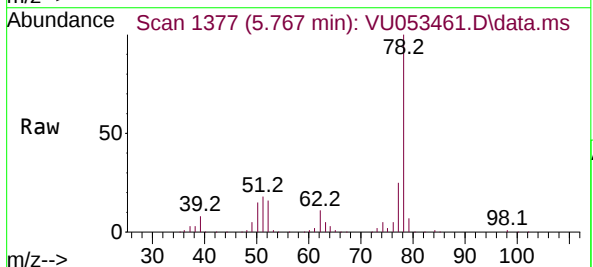
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

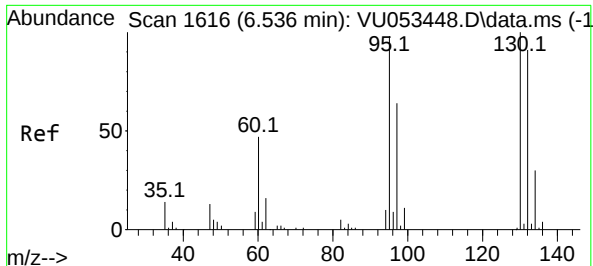
Tgt Ion:117 Resp: 93513  
Ion Ratio Lower Upper  
117 100  
119 97.0 76.2 114.2



#33  
Benzene  
Concen: 46.275 ug/L  
RT: 5.767 min Scan# 1377  
Delta R.T. -0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 78 Resp: 308066



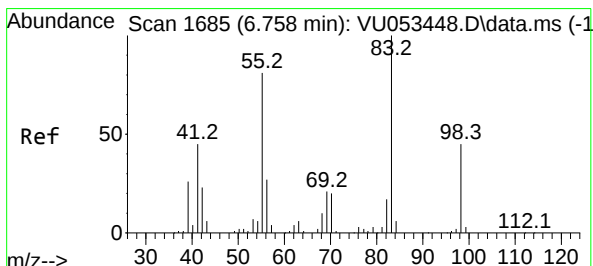
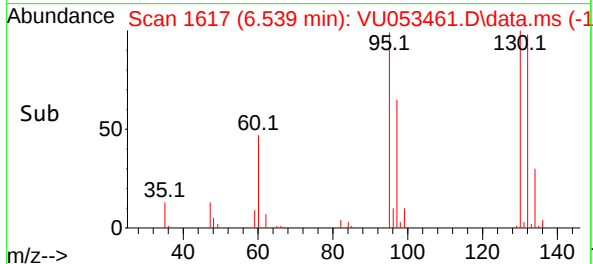
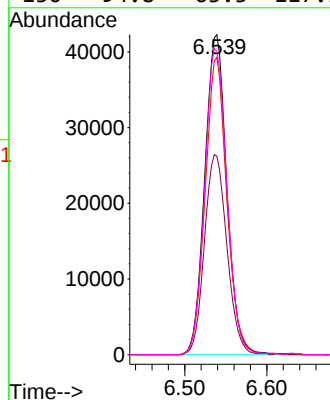
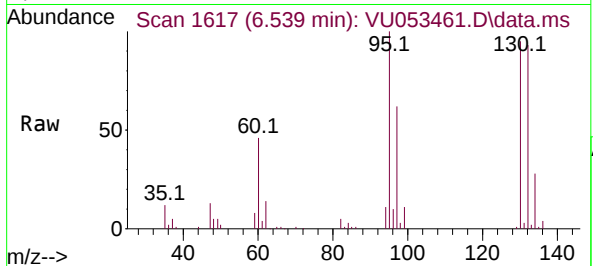


#34  
Trichloroethene  
Concen: 45.463 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. 0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

Tgt Ion: 95 Resp: 78917

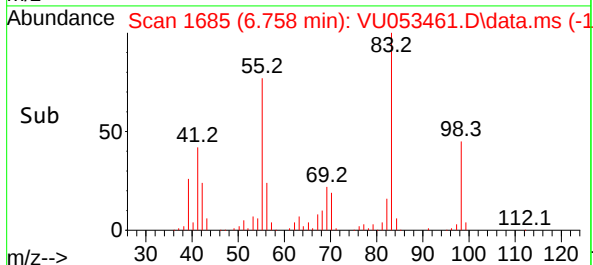
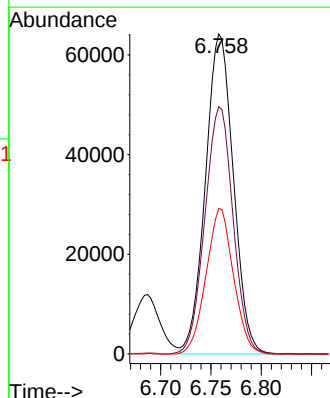
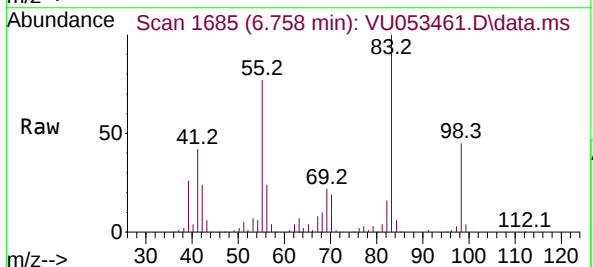
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 62.1  | 43.8  | 81.3  |
| 132 | 93.0  | 61.5  | 114.3 |
| 130 | 94.8  | 63.3  | 117.5 |

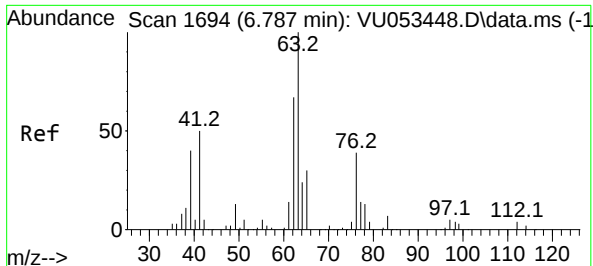


#35  
Methylcyclohexane  
Concen: 40.802 ug/L  
RT: 6.758 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 83 Resp: 124150

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 77.9  | 58.2  | 87.4  |
| 98  | 44.5  | 35.4  | 53.2  |

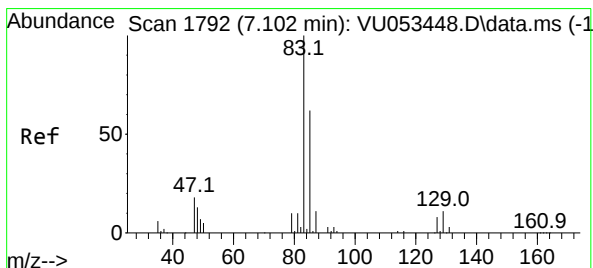
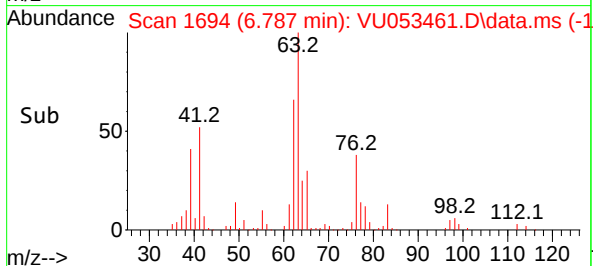
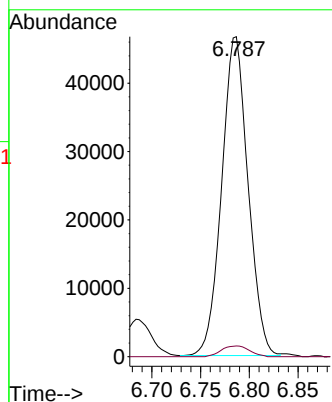
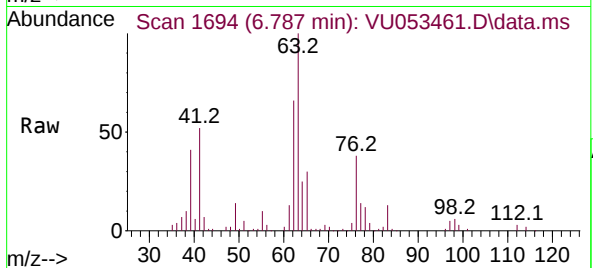




#37  
1,2-Dichloropropane  
Concen: 47.242 ug/L  
RT: 6.787 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

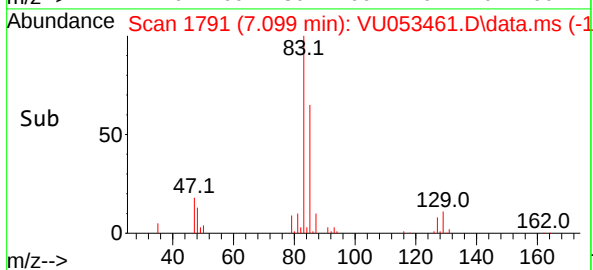
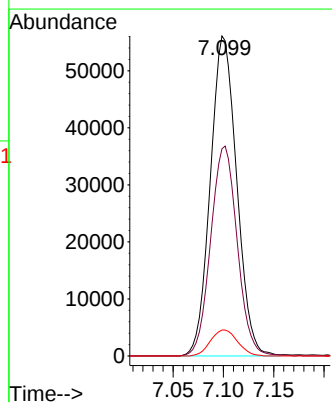
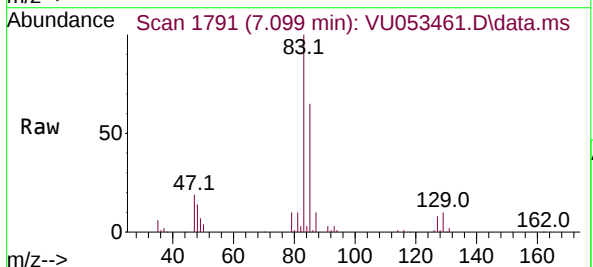
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

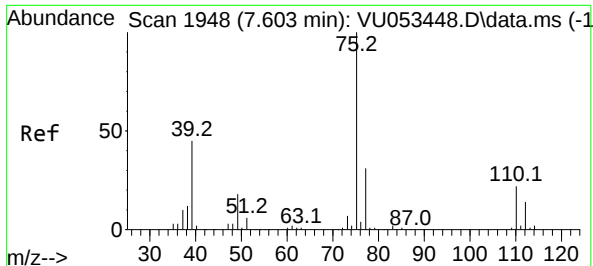
Tgt Ion: 63 Resp: 87745  
Ion Ratio Lower Upper  
63 100  
112 3.6 2.6 3.8



#38  
Bromodichloromethane  
Concen: 44.309 ug/L  
RT: 7.099 min Scan# 1791  
Delta R.T. -0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 83 Resp: 102418  
Ion Ratio Lower Upper  
83 100  
85 64.7 45.4 84.2  
127 8.1 5.9 8.9

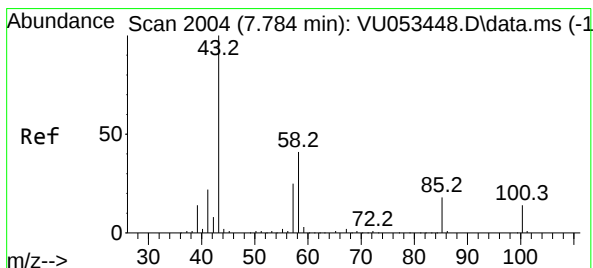
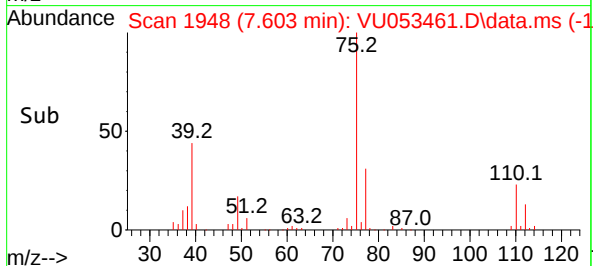
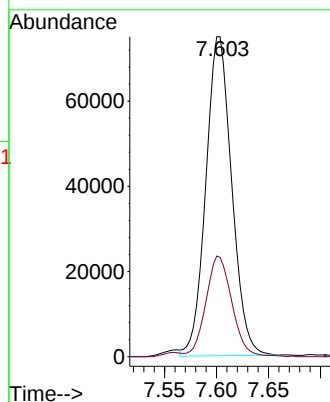
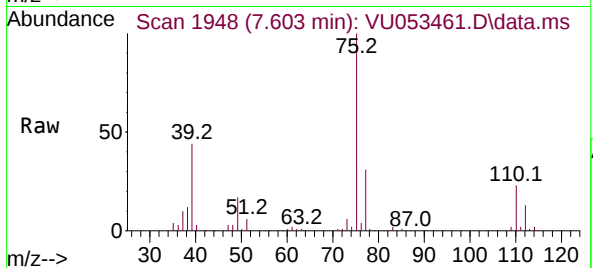




#39  
 cis-1,3-Dichloropropene  
 Concen: 42.555 ug/L  
 RT: 7.603 min Scan# 1948  
 Delta R.T. -0.000 min  
 Lab File: VU053461.D  
 Acq: 29 Mar 2023 03:13

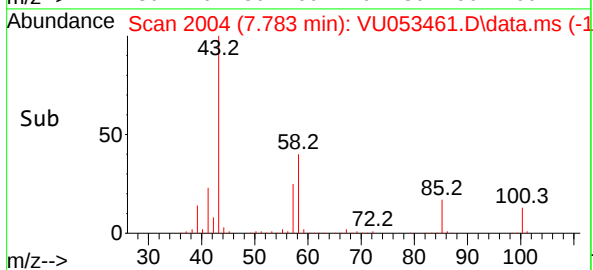
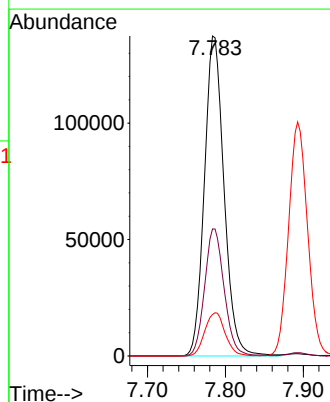
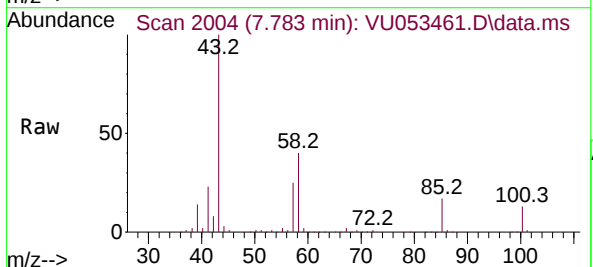
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050177

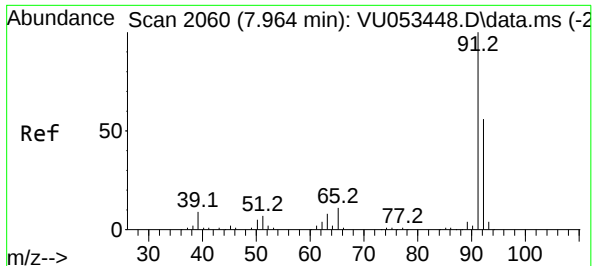
Tgt Ion: 75 Resp: 129858  
 Ion Ratio Lower Upper  
 75 100  
 77 31.1 21.9 40.7



#40  
 4-Methyl-2-pentanone  
 Concen: 126.239 ug/L  
 RT: 7.783 min Scan# 2004  
 Delta R.T. -0.000 min  
 Lab File: VU053461.D  
 Acq: 29 Mar 2023 03:13

Tgt Ion: 43 Resp: 241001  
 Ion Ratio Lower Upper  
 43 100  
 58 39.5 35.8 53.6  
 100 14.0 13.0 19.6





#42

Toluene

Concen: 45.924 ug/L

RT: 7.963 min Scan# 2060

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

Instrument :

MSVOA\_U

ClientSampleId :

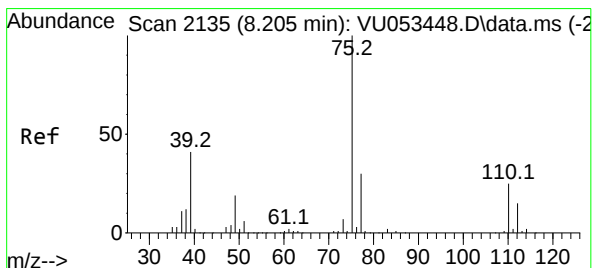
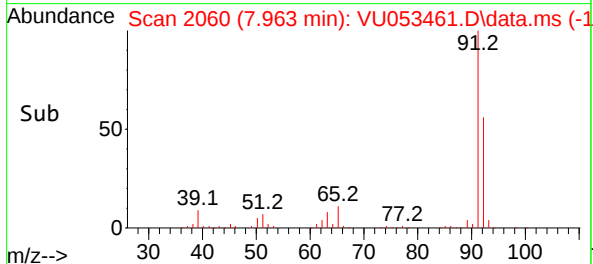
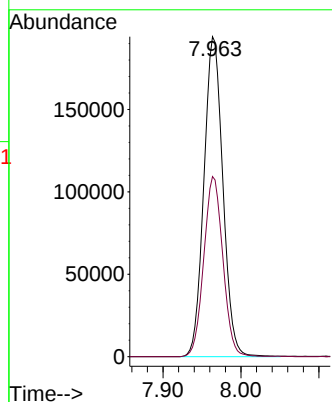
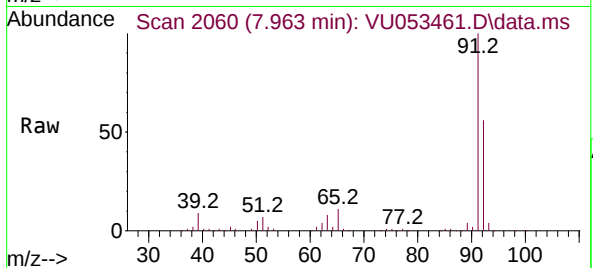
VSTD050177

Tgt Ion: 91 Resp: 328685

Ion Ratio Lower Upper

91 100

92 56.3 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 44.235 ug/L

RT: 8.205 min Scan# 2135

Delta R.T. -0.000 min

Lab File: VU053461.D

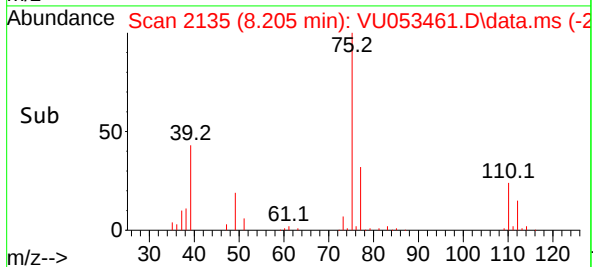
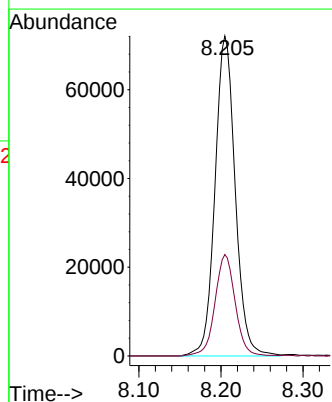
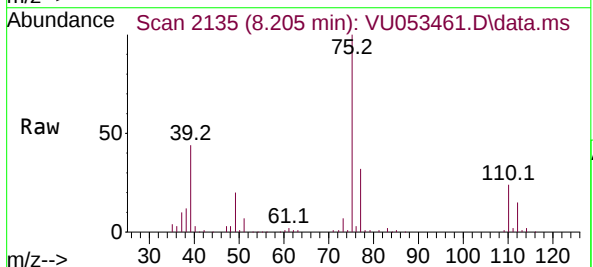
Acq: 29 Mar 2023 03:13

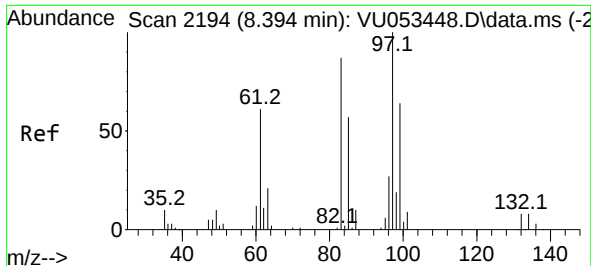
Tgt Ion: 75 Resp: 123391

Ion Ratio Lower Upper

75 100

77 31.7 22.0 40.8

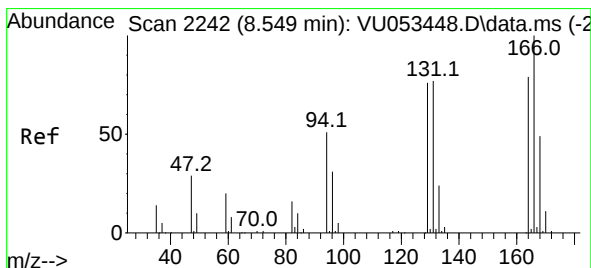
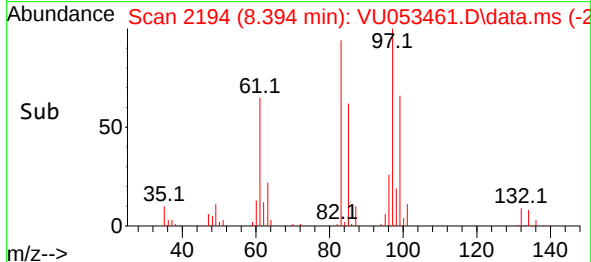
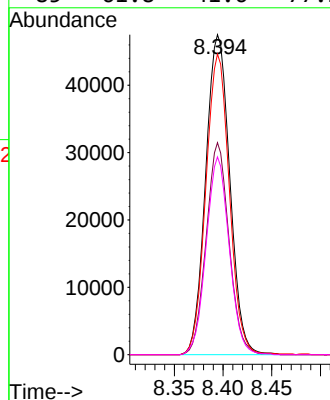
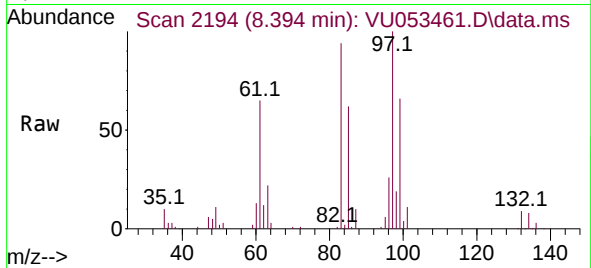




#45  
1,1,2-Trichloroethane  
Concen: 48.443 ug/L  
RT: 8.394 min Scan# 2194  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

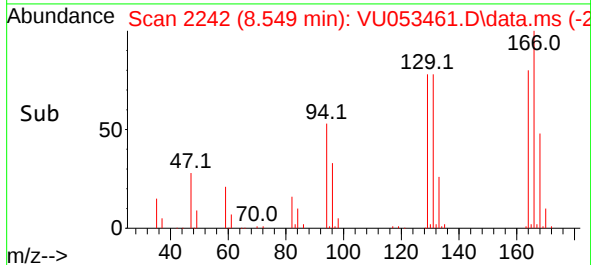
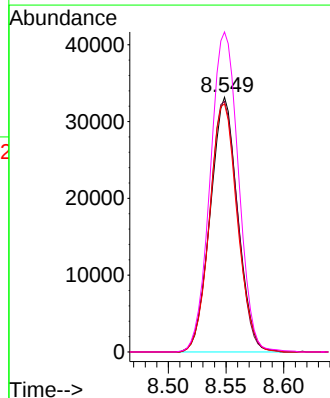
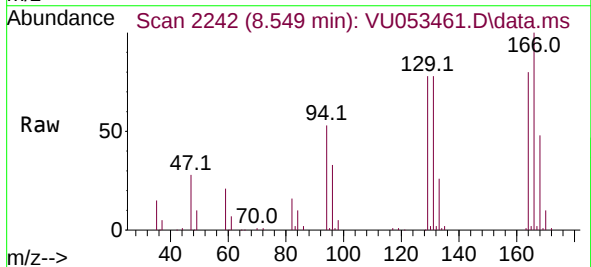
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

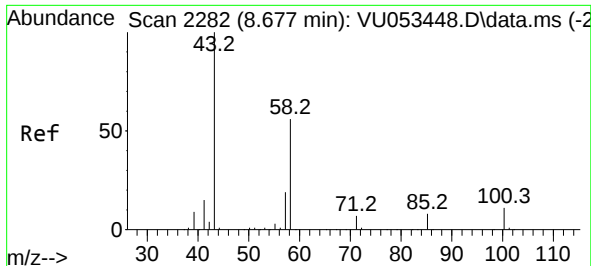
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 81929 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 66.3  | 44.4  | 82.4  |
| 83       | 94.0  | 63.8  | 118.6 |
| 85       | 61.8  | 41.6  | 77.2  |



#46  
Tetrachloroethene  
Concen: 48.601 ug/L  
RT: 8.549 min Scan# 2242  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 54887 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 98.3  | 73.6  | 136.8 |
| 131      | 97.4  | 70.3  | 130.7 |
| 166      | 125.6 | 88.9  | 165.1 |

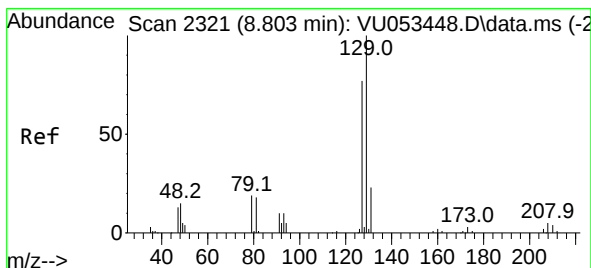
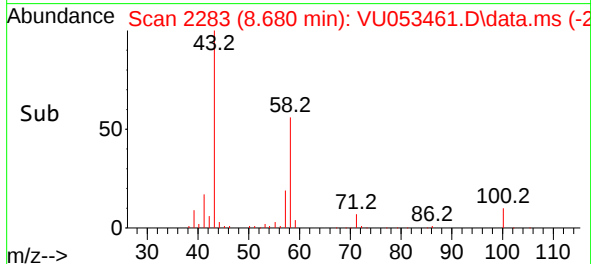
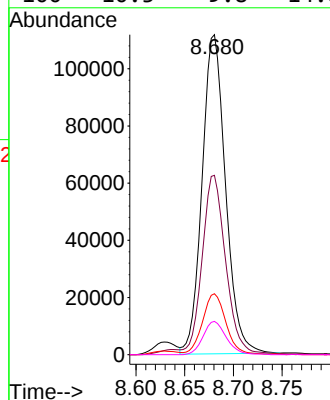
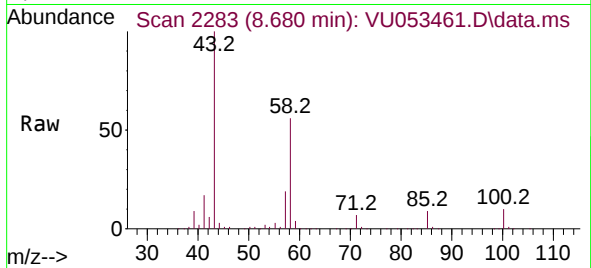




#48  
2-Hexanone  
Concen: 116.944 ug/L  
RT: 8.680 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

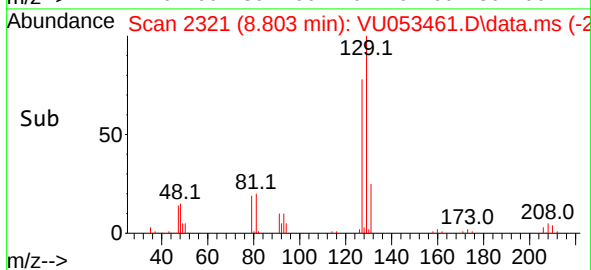
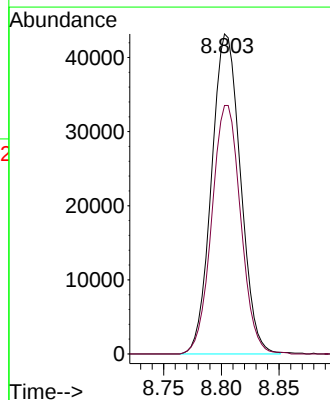
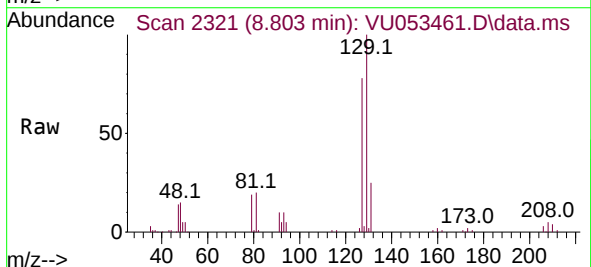
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

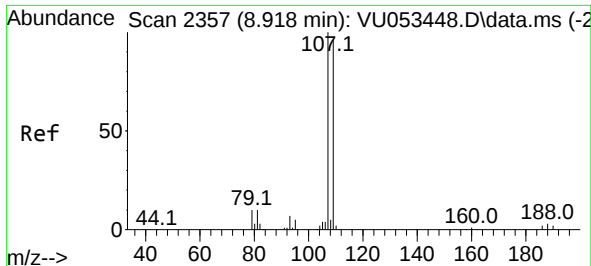
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 186952 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 56.5  | 49.4  | 74.0   |
| 57       | 19.1  | 16.9  | 25.3   |
| 100      | 10.3  | 9.8   | 14.8   |



#49  
Dibromochloromethane  
Concen: 43.586 ug/L  
RT: 8.803 min Scan# 2321  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 75406 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 77.6  | 53.1  | 98.5  |





#50

1,2-Dibromoethane

Concen: 48.993 ug/L

RT: 8.918 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050177

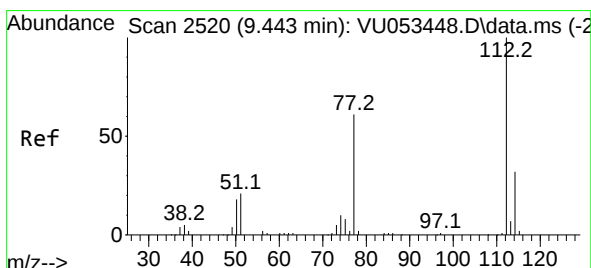
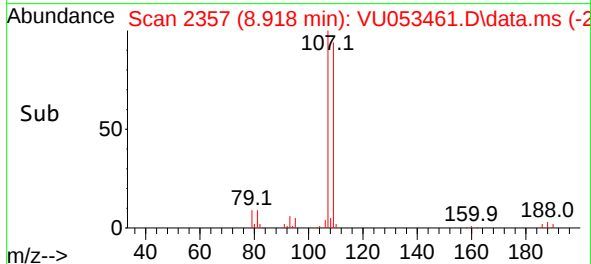
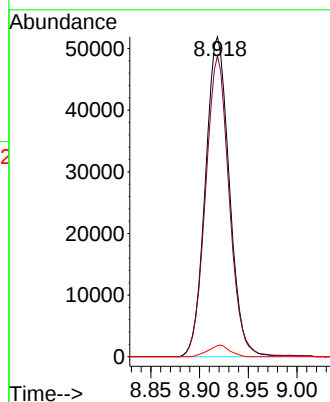
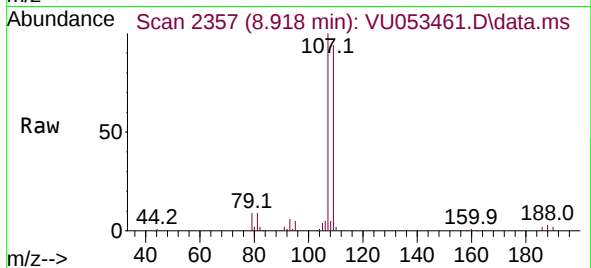
Tgt Ion:107 Resp: 88289

Ion Ratio Lower Upper

107 100

109 93.9 64.6 120.0

188 3.5 2.2 3.4#



#51

Chlorobenzene

Concen: 46.802 ug/L

RT: 9.442 min Scan# 2520

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

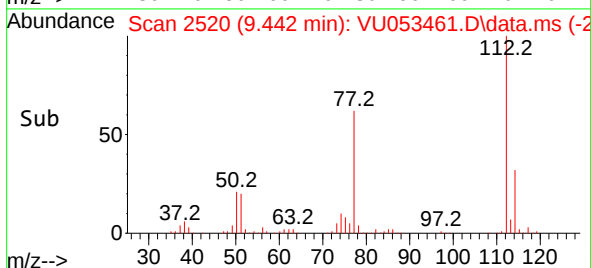
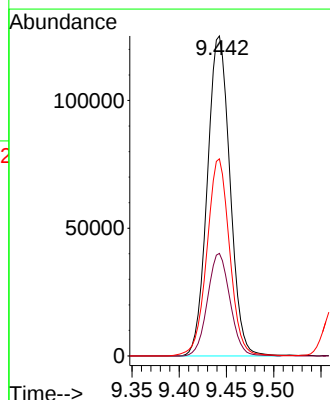
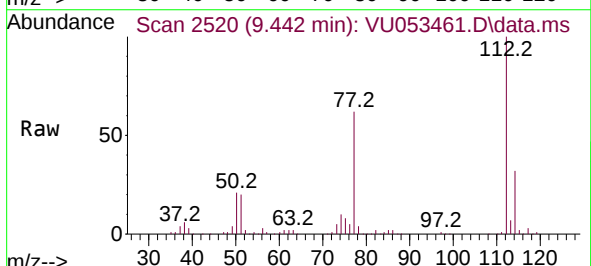
Tgt Ion:112 Resp: 208770

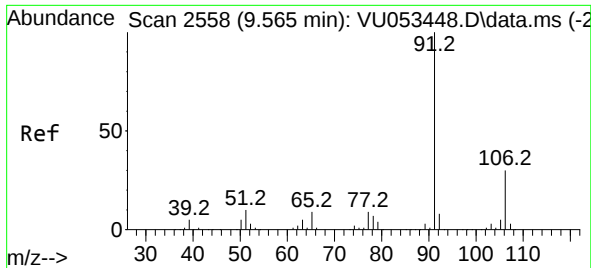
Ion Ratio Lower Upper

112 100

114 32.0 21.8 40.6

77 61.6 48.8 73.2

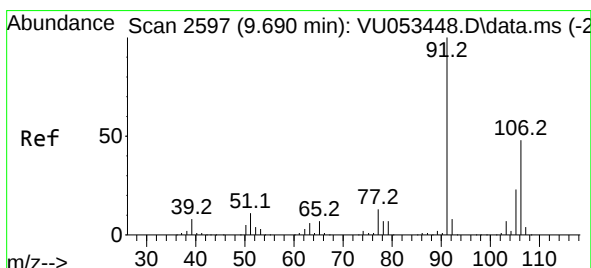
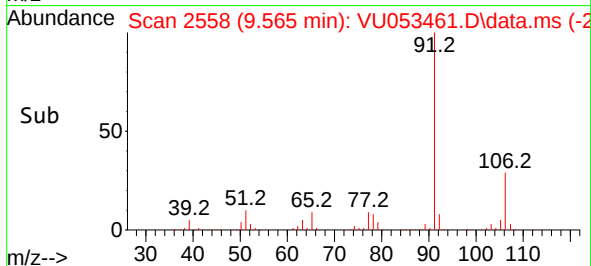
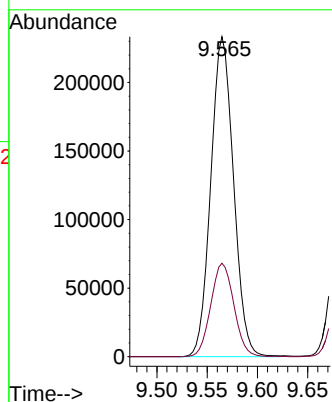
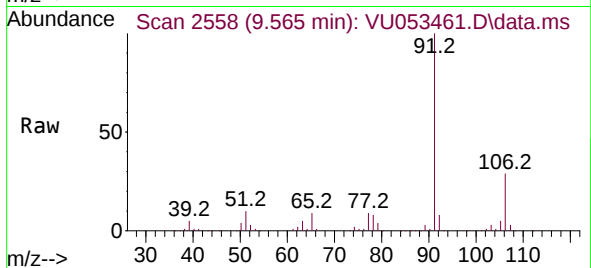




#52  
Ethylbenzene  
Concen: 45.217 ug/L  
RT: 9.565 min Scan# 2558  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

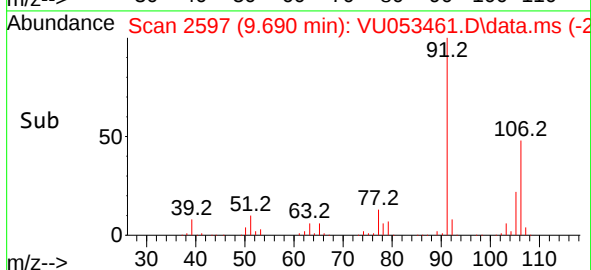
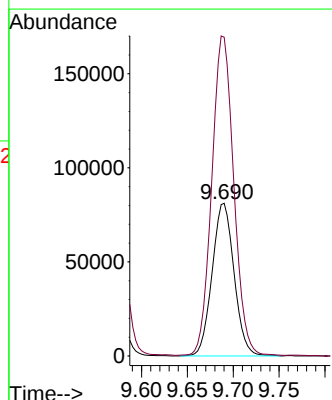
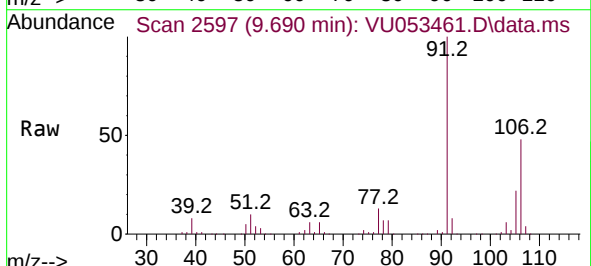
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

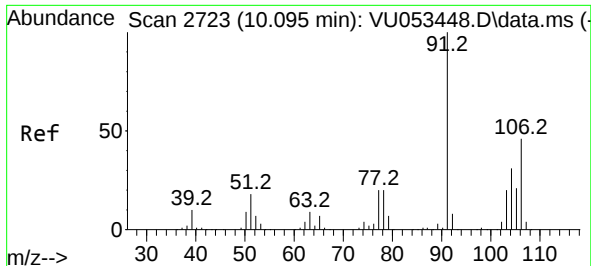
Tgt Ion: 91 Resp: 367000  
Ion Ratio Lower Upper  
91 100  
106 29.2 21.6 40.0



#53  
m,p-Xylene  
Concen: 44.601 ug/L  
RT: 9.690 min Scan# 2597  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 106 Resp: 135110  
Ion Ratio Lower Upper  
106 100  
91 208.9 145.3 269.8

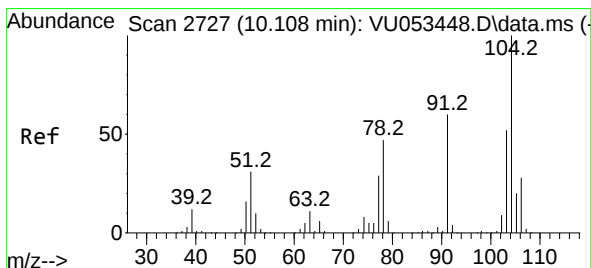
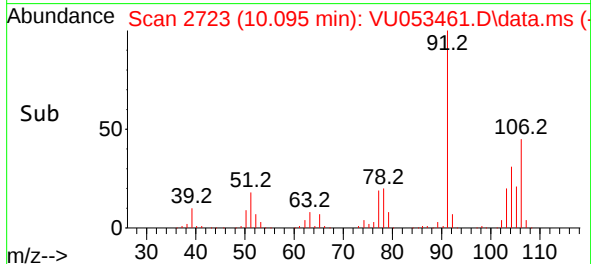
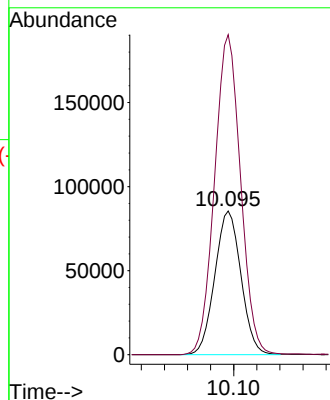
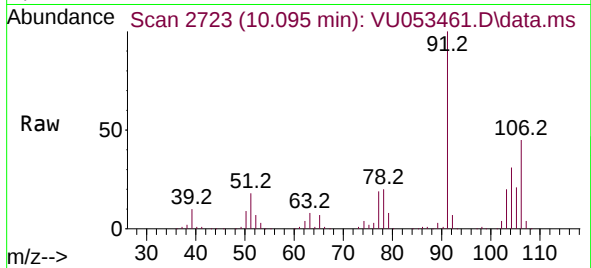




#54  
o-Xylene  
Concen: 44.863 ug/L  
RT: 10.095 min Scan# 2723  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

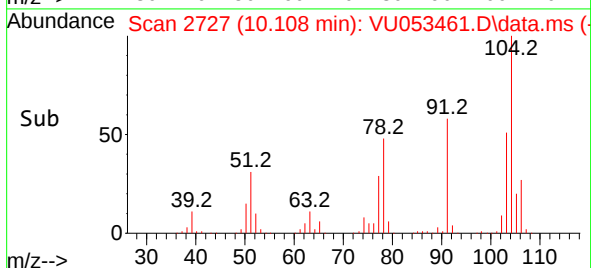
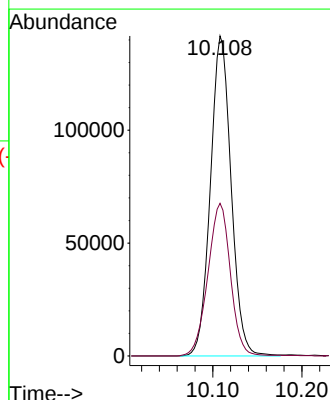
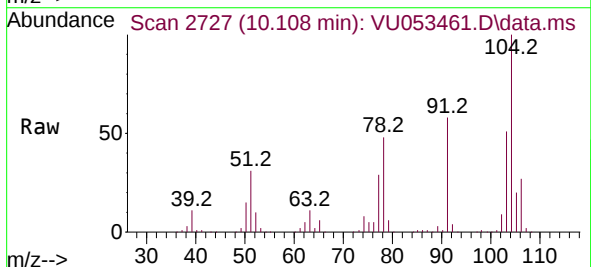
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

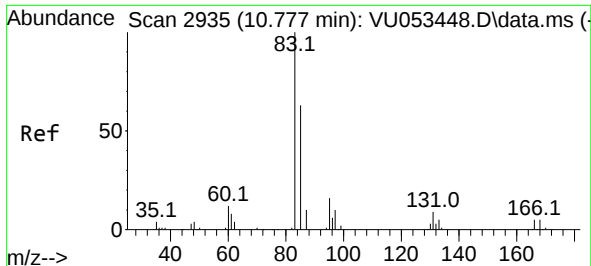
Tgt Ion:106 Resp: 134414  
Ion Ratio Lower Upper  
106 100  
91 222.7 154.9 287.7



#55  
Styrene  
Concen: 45.936 ug/L  
RT: 10.108 min Scan# 2727  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion:104 Resp: 229380  
Ion Ratio Lower Upper  
104 100  
78 47.7 32.9 61.1

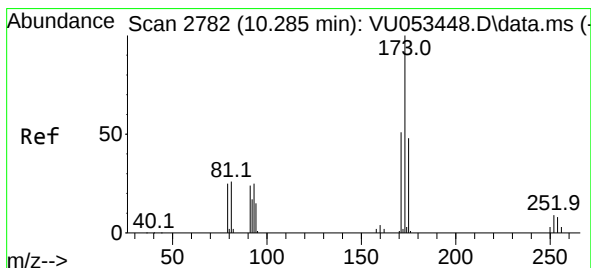
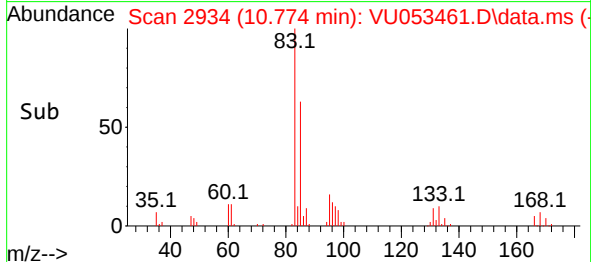
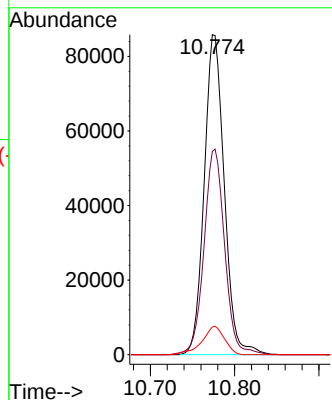
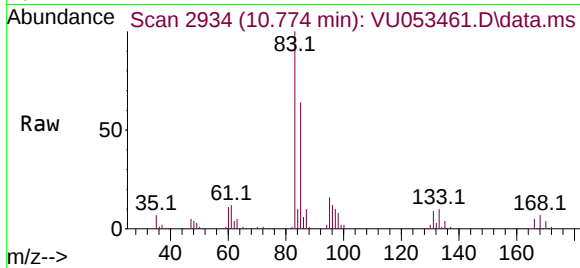




#57  
1,1,2,2-Tetrachloroethane  
Concen: 51.297 ug/L  
RT: 10.774 min Scan# 2934  
Delta R.T. -0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

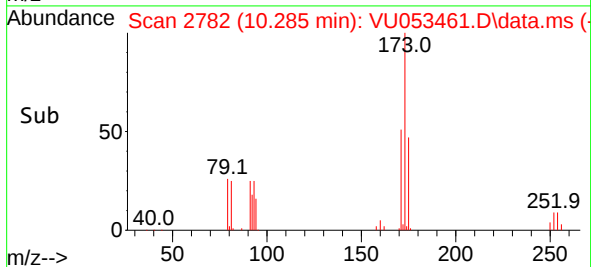
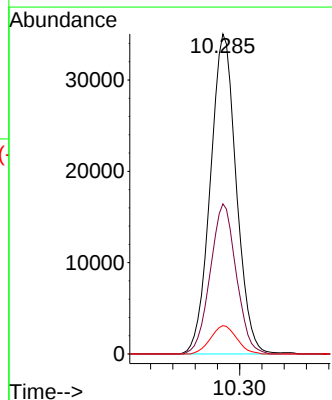
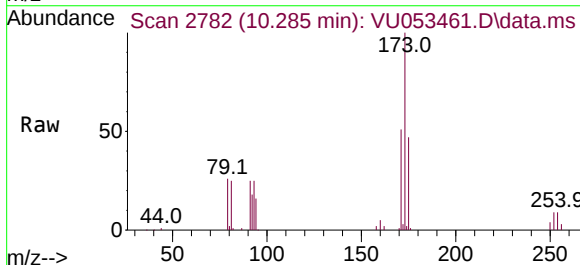
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

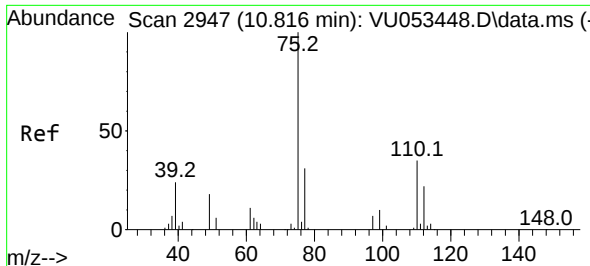
Tgt Ion: 83 Resp: 142239  
Ion Ratio Lower Upper  
83 100  
85 63.5 46.0 85.4  
131 8.7 6.6 10.0



#59  
Bromoform  
Concen: 49.467 ug/L  
RT: 10.285 min Scan# 2782  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion:173 Resp: 56627  
Ion Ratio Lower Upper  
173 100  
175 46.9 38.5 57.7  
254 8.9 6.5 9.7

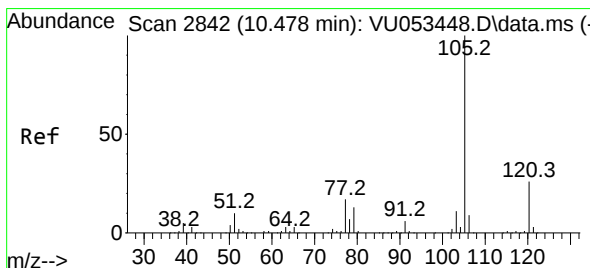
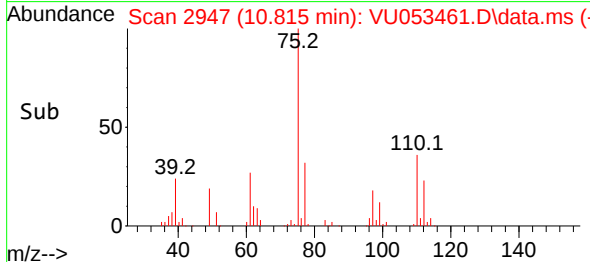
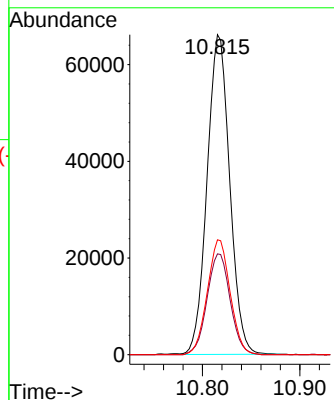
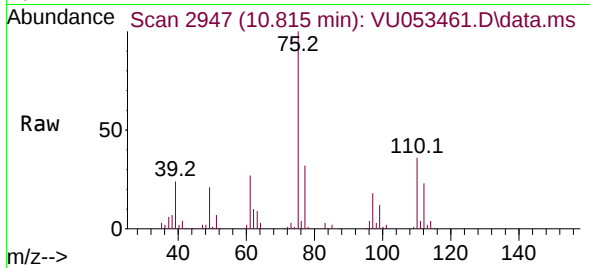




#60  
1,2,3-Trichloropropane  
Concen: 53.381 ug/L  
RT: 10.815 min Scan# 2947  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

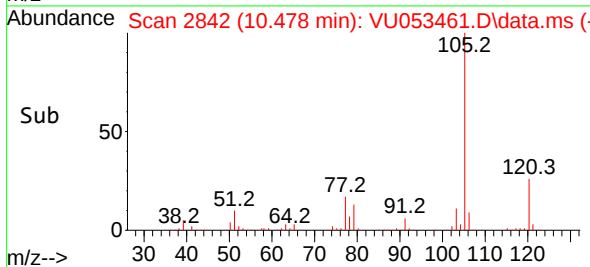
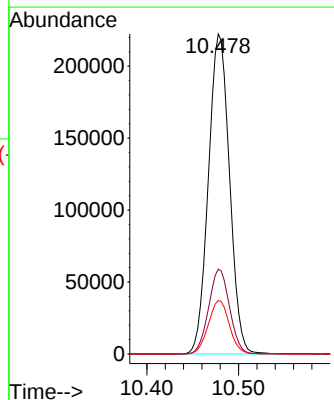
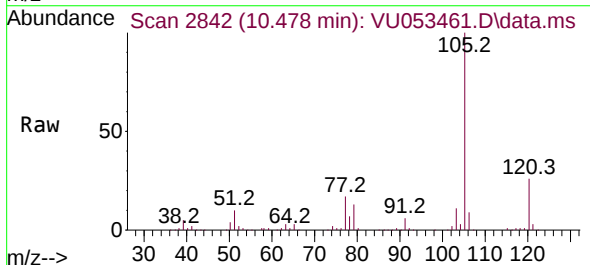
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

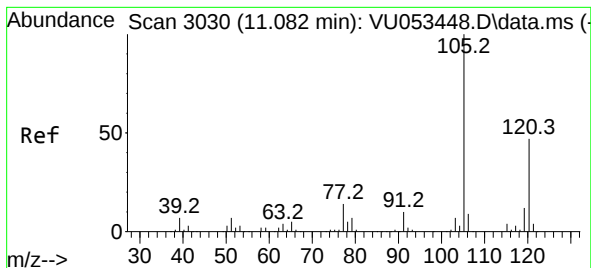
Tgt Ion: 75 Resp: 106702  
Ion Ratio Lower Upper  
75 100  
77 32.3 26.6 40.0  
110 36.2 28.6 42.8



#61  
Isopropylbenzene  
Concen: 44.748 ug/L  
RT: 10.478 min Scan# 2842  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 105 Resp: 355652  
Ion Ratio Lower Upper  
105 100  
120 26.2 20.4 30.6  
77 16.7 13.0 19.4





#62

1,3,5-Trimethylbenzene

Concen: 44.445 ug/L

RT: 11.082 min Scan# 3030

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

Instrument :

MSVOA\_U

ClientSampleId :

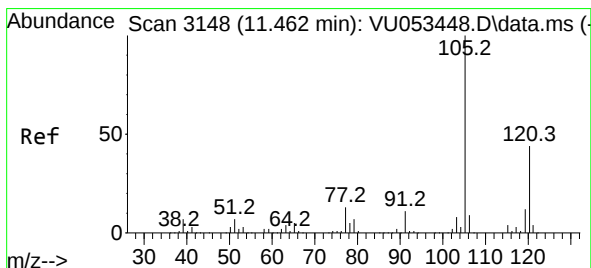
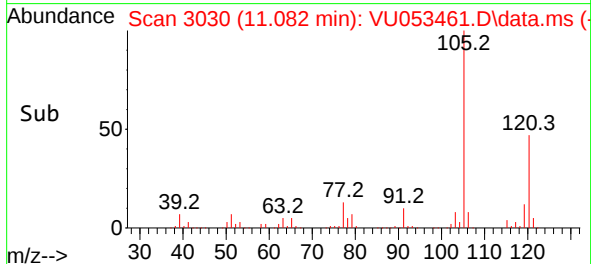
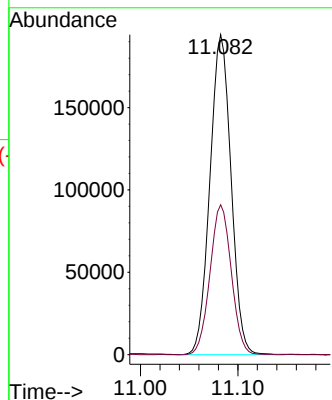
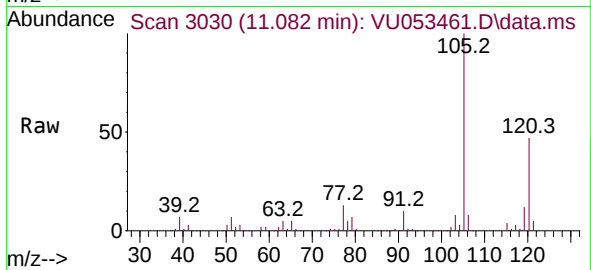
VSTD050177

Tgt Ion:105 Resp: 292402

Ion Ratio Lower Upper

105 100

120 47.2 37.0 55.4



#63

1,2,4-Trimethylbenzene

Concen: 44.195 ug/L

RT: 11.462 min Scan# 3148

Delta R.T. -0.000 min

Lab File: VU053461.D

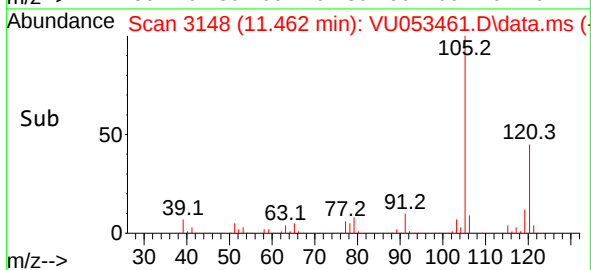
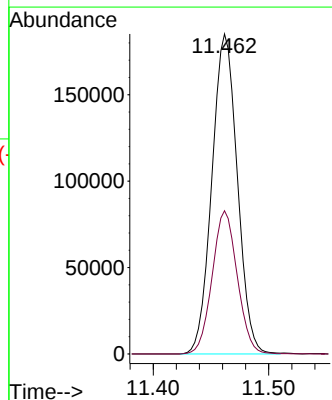
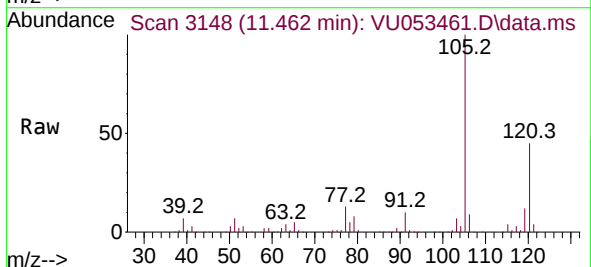
Acq: 29 Mar 2023 03:13

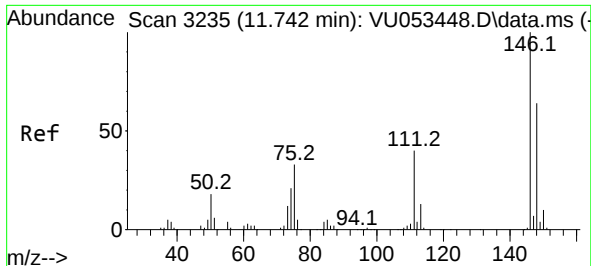
Tgt Ion:105 Resp: 283409

Ion Ratio Lower Upper

105 100

120 44.1 34.6 52.0

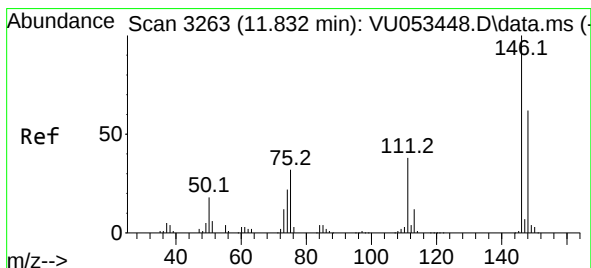
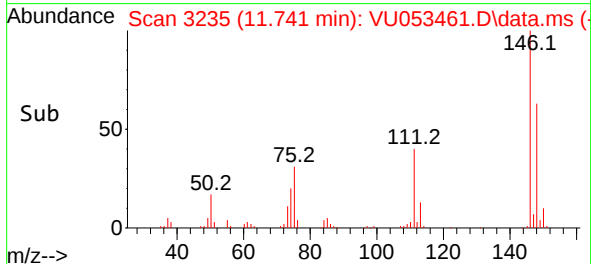
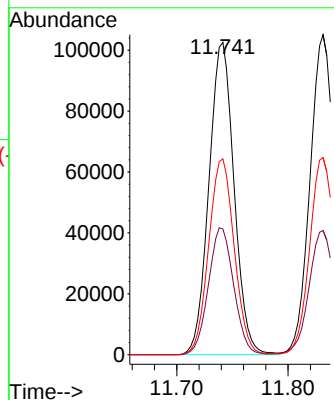
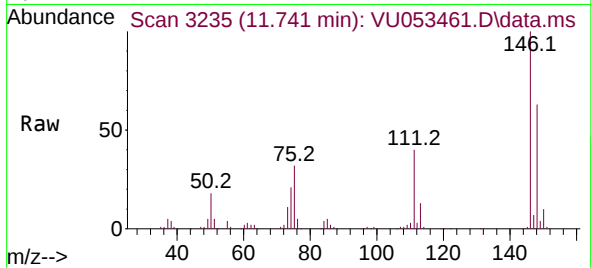




#64  
1,3-Dichlorobenzene  
Concen: 48.286 ug/L  
RT: 11.741 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

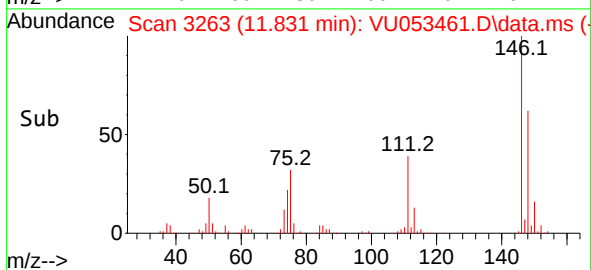
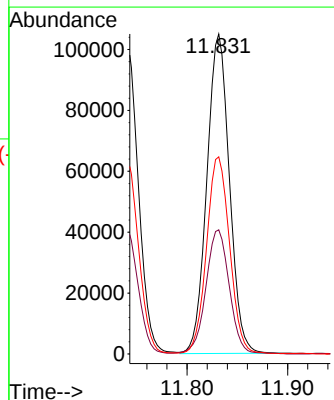
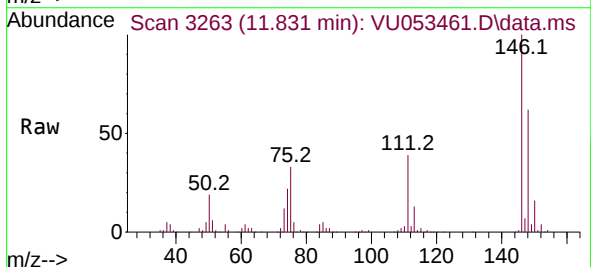
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

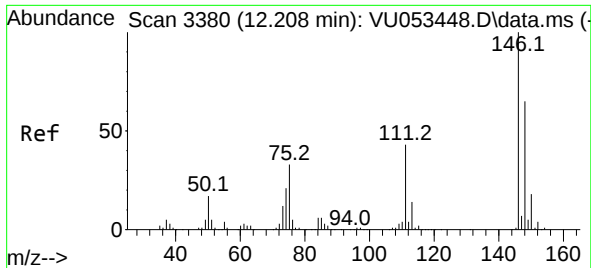
Tgt Ion:146 Resp: 160951  
Ion Ratio Lower Upper  
146 100  
111 40.3 30.2 56.0  
148 62.7 44.8 83.2



#65  
1,4-Dichlorobenzene  
Concen: 48.864 ug/L  
RT: 11.831 min Scan# 3263  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion:146 Resp: 163513  
Ion Ratio Lower Upper  
146 100  
111 38.8 30.7 57.1  
148 61.6 45.6 84.8

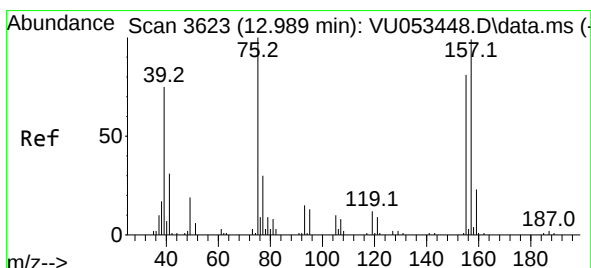
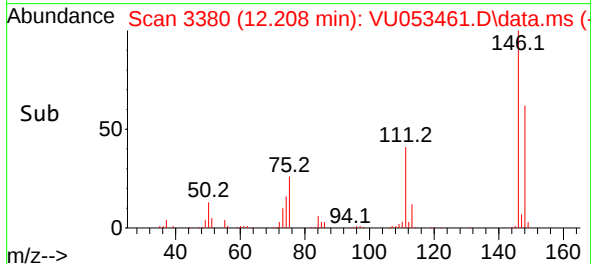
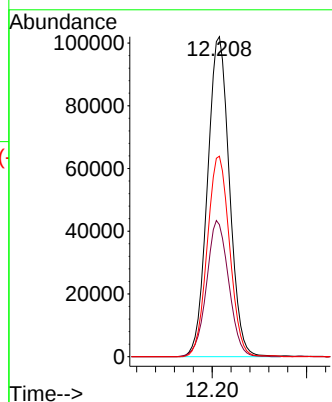
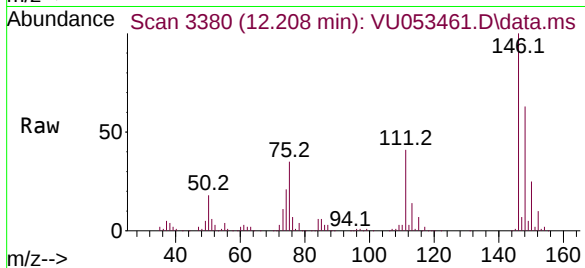




#67  
1,2-Dichlorobenzene  
Concen: 49.331 ug/L  
RT: 12.208 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

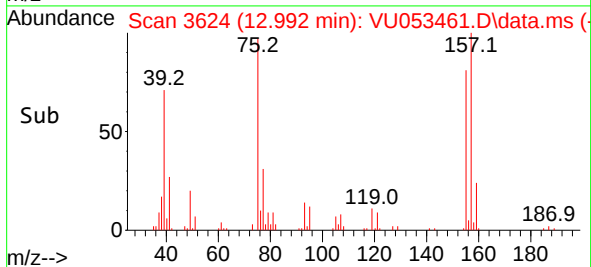
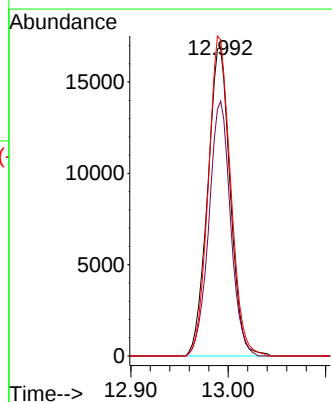
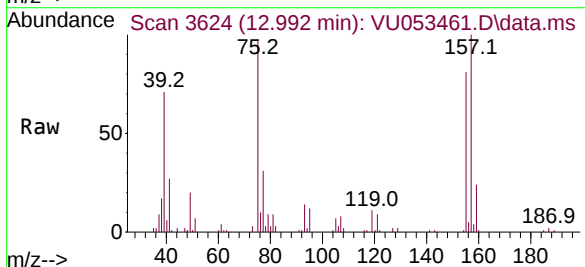
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050177

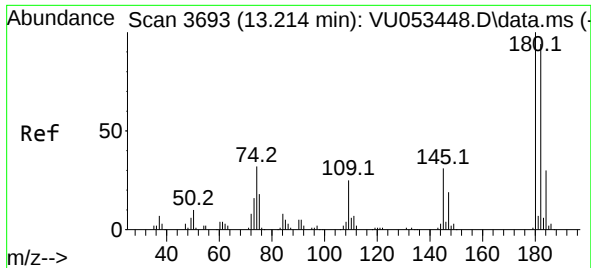
Tgt Ion:146 Resp: 164351  
Ion Ratio Lower Upper  
146 100  
111 41.2 37.0 55.4  
148 62.7 51.4 77.2



#68  
1,2-Dibromo-3-chloropropane  
Concen: 49.224 ug/L  
RT: 12.992 min Scan# 3624  
Delta R.T. 0.003 min  
Lab File: VU053461.D  
Acq: 29 Mar 2023 03:13

Tgt Ion: 75 Resp: 27208  
Ion Ratio Lower Upper  
75 100  
155 82.8 60.2 90.4  
157 102.8 73.0 109.4





#69

1,3,5-Trichlorobenzene

Concen: 52.506 ug/L

RT: 13.214 min Scan# 3693

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050177

Tgt Ion:180 Resp: 110963

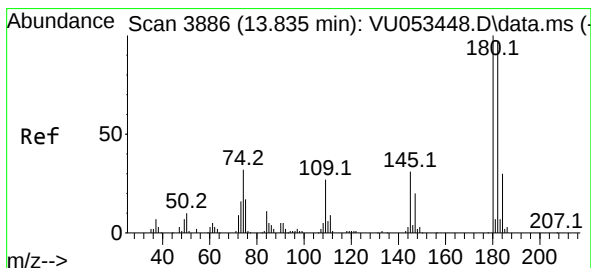
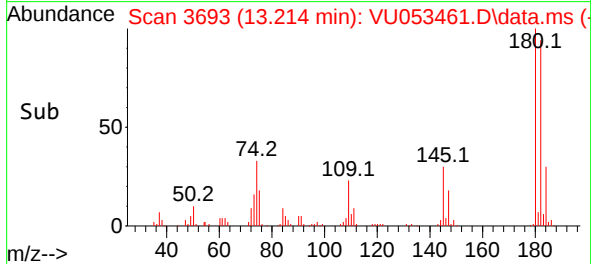
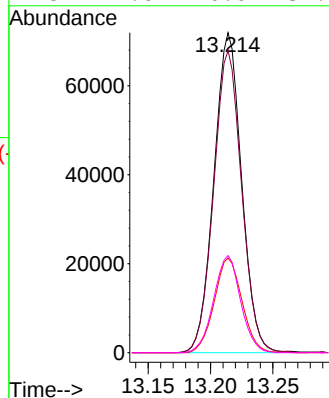
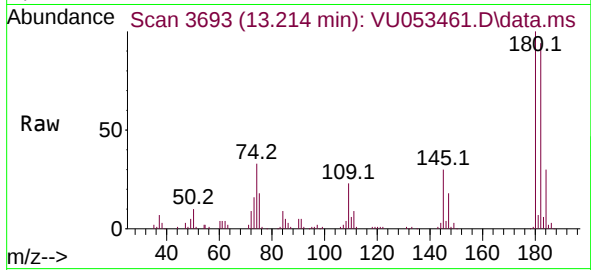
Ion Ratio Lower Upper

180 100

182 95.4 74.5 111.7

184 29.6 23.2 34.8

145 29.6 26.6 39.8



#70

1,2,4-trichlorobenzene

Concen: 52.564 ug/L

RT: 13.835 min Scan# 3886

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

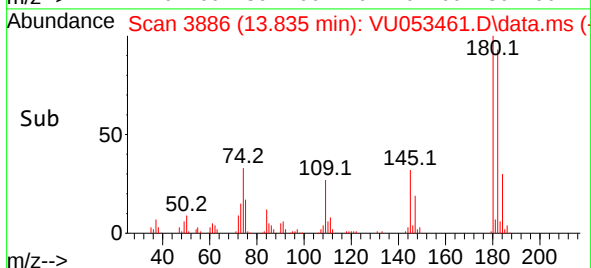
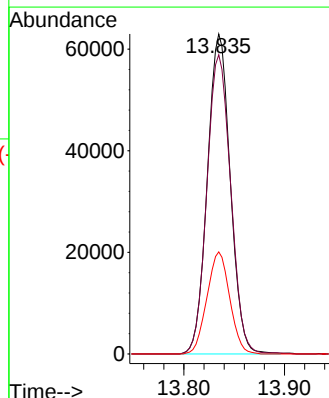
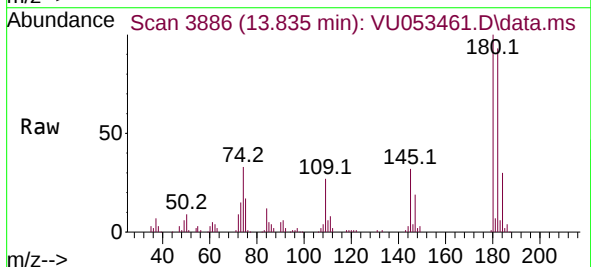
Tgt Ion:180 Resp: 99813

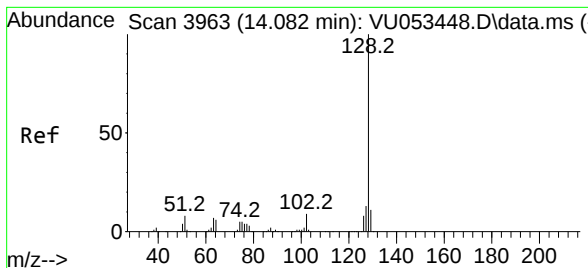
Ion Ratio Lower Upper

180 100

182 96.7 75.8 113.8

145 31.6 27.2 40.8





#71

Naphthalene

Concen: 51.500 ug/L

RT: 14.079 min Scan# 3962

Delta R.T. -0.003 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050177

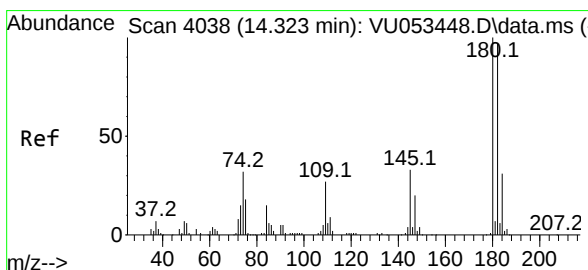
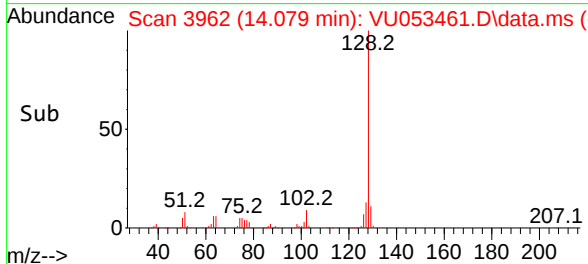
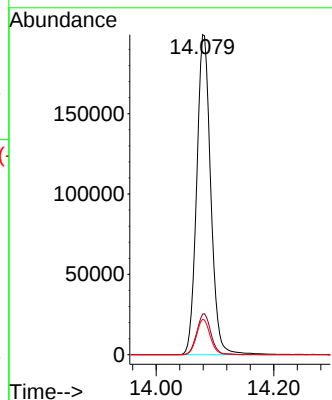
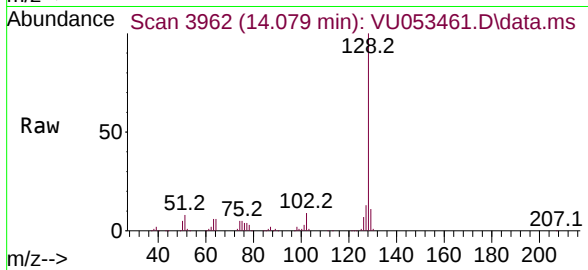
Tgt Ion:128 Resp: 329609

Ion Ratio Lower Upper

128 100

127 12.9 10.0 15.0

129 10.8 8.6 13.0



#72

1,2,3-Trichlorobenzene

Concen: 55.728 ug/L

RT: 14.323 min Scan# 4038

Delta R.T. -0.000 min

Lab File: VU053461.D

Acq: 29 Mar 2023 03:13

Tgt Ion:180 Resp: 100353

Ion Ratio Lower Upper

180 100

182 94.8 76.7 115.1

145 31.9 28.6 42.8

