

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\U071222\  
 Data File : U071222.D  
 Acq On : 12 Jul 2022 10:02  
 Operator : SY/MD  
 Sample : VSTDCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050159

Quant Time: Jul 13 06:48:14 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM071122WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 12 02:23:25 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 232335   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 219630   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 113592   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 91778    | 46.818   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 93.640%  |
| 7) Chloroethane-d5            | 1.909   | 69    | 67834    | 47.872   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 95.740%  |
| 11) 1,1-Dichloroethene-d2     | 2.568   | 63    | 169796   | 49.036   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 98.080%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 157122   | 93.891   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 93.890%  |
| 24) Chloroform-d              | 5.063   | 84    | 171189   | 49.305   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 98.620%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 111438   | 47.423   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.840%  |
| 32) Benzene-d6                | 5.729   | 84    | 319098   | 47.824   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.640%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 109852   | 48.948   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 97.900%  |
| 41) Toluene-d8                | 7.899   | 98    | 285289   | 49.098   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 98.200%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 42724    | 45.183   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.360%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 92007    | 91.138   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 91.140%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 153290   | 48.815   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 97.620%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 102771   | 47.985   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 95.980%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 146687   | 52.670   | ug/L   | 100      |
| 3) Chloromethane              | 1.523   | 50    | 162183   | 53.061   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.604   | 62    | 145410   | 52.647   | ug/L   | 99       |
| 6) Bromomethane               | 1.851   | 94    | 73990    | 57.980   | ug/L   | 97       |
| 8) Chloroethane               | 1.932   | 64    | 80144    | 52.381   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.137   | 101   | 179004   | 52.479   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581   | 101   | 92840    | 51.871   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 87892    | 52.911   | ug/L   | 90       |
| 13) Acetone                   | 2.626   | 43    | 129710   | 81.560   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.793   | 76    | 278637   | 49.742   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.948   | 43    | 153060   | 59.239   | ug/L   | 100      |
| 16) Methylene chloride        | 3.044   | 84    | 114921   | 54.938   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.353   | 96    | 93118    | 51.243   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.363   | 73    | 329855   | 52.996   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.867   | 63    | 203006   | 53.660   | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.668   | 96    | 110562   | 54.137   | ug/L   | 95       |
| 22) 2-Butanone                | 4.700   | 43    | 204291   | 95.944   | ug/L   | 98       |
| 23) Bromochloromethane        | 4.977   | 128   | 55295    | 54.262   | ug/L   | 95       |
| 25) Chloroform                | 5.089   | 83    | 203449   | 53.630   | ug/L   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU071222\  
 Data File : VU049686.D  
 Acq On : 12 Jul 2022 10:02  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

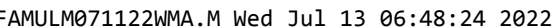
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050159

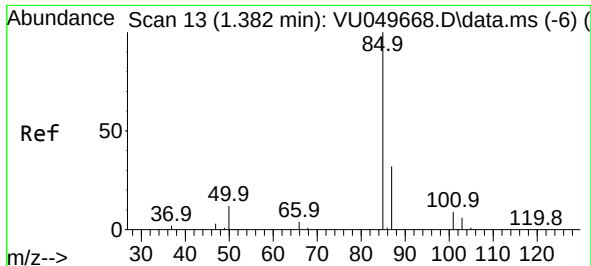
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 Quant Title : VOC Analysis  
 QLast Update : Tue Jul 12 02:23:25 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 169569   | 52.494  | ug/L   | 99       |
| 29) Cyclohexane               | 5.388  | 56   | 180770   | 52.731  | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 5.317  | 97   | 172713   | 54.319  | ug/L   | 100      |
| 31) Carbon tetrachloride      | 5.526  | 117  | 140077   | 53.864  | ug/L   | 99       |
| 33) Benzene                   | 5.774  | 78   | 444425   | 53.833  | ug/L   | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 106414   | 53.325  | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.764  | 83   | 167331   | 53.361  | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 122312   | 53.453  | ug/L   | 100      |
| 38) Bromodichloromethane      | 7.105  | 83   | 153340   | 54.049  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 156718   | 50.782  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 396521   | 107.041 | ug/L   | 99       |
| 42) Toluene                   | 7.970  | 91   | 448283   | 54.636  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 145021   | 50.048  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 108159   | 54.153  | ug/L   | 98       |
| 46) Tetrachloroethene         | 8.555  | 164  | 72003    | 52.023  | ug/L   | 99       |
| 48) 2-Hexanone                | 8.684  | 43   | 296572   | 100.185 | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.809  | 129  | 110398   | 54.956  | ug/L   | 93       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 110769   | 55.830  | ug/L   | 98       |
| 51) Chlorobenzene             | 9.446  | 112  | 265109   | 53.356  | ug/L   | 98       |
| 52) Ethylbenzene              | 9.571  | 91   | 475541   | 54.923  | ug/L   | 100      |
| 53) m,p-Xylene                | 9.693  | 106  | 174724   | 55.497  | ug/L   | 97       |
| 54) o-Xylene                  | 10.102 | 106  | 173838   | 54.837  | ug/L   | 99       |
| 55) Styrene                   | 10.115 | 104  | 296435   | 56.662  | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 191718   | 53.623  | ug/L   | 99       |
| 59) Bromoform                 | 10.291 | 173  | 80101    | 52.575  | ug/L   | 100      |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 156464   | 51.713  | ug/L   | 99       |
| 61) Isopropylbenzene          | 10.484 | 105  | 459051   | 54.122  | ug/L # | 83       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 394973   | 55.207  | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 390409   | 54.928  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 195150   | 52.706  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 193082   | 51.913  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 202074   | 52.485  | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 43634    | 49.218  | ug/L   | 100      |
| 69) 1,3,5-Trichlorobenzene    | 13.221 | 180  | 141070   | 54.373  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 124038   | 52.096  | ug/L   | 99       |
| 71) Naphthalene               | 14.086 | 128  | 443873   | 52.150  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 129806   | 52.632  | ug/L   | 99       |

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

Quant Time: Jul 13 06:48:14 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM071122WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jul 12 02:23:25 2022  
Response via : Initial Calibration

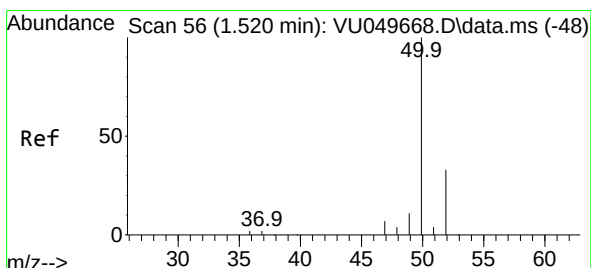
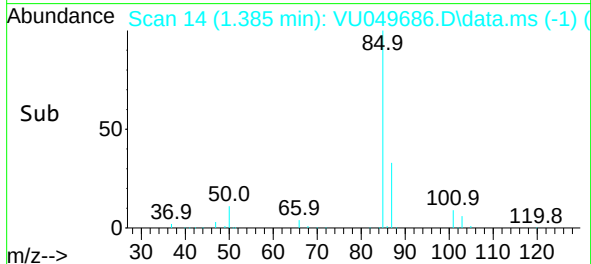
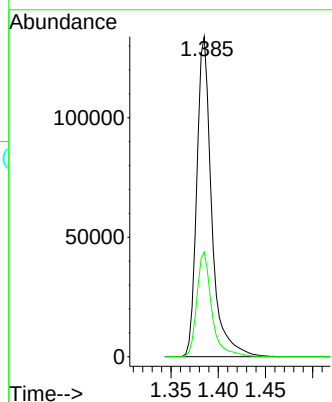
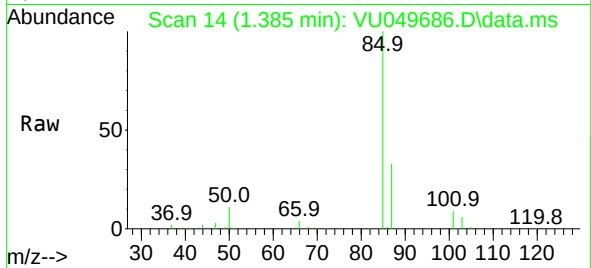




#2  
Dichlorodifluoromethane  
Concen: 52.670 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

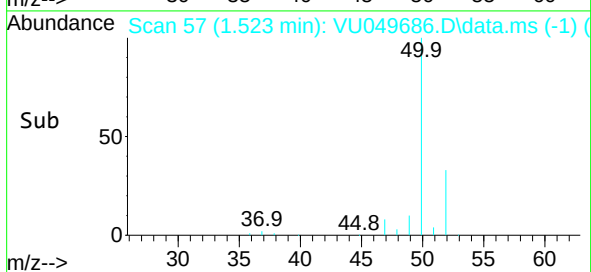
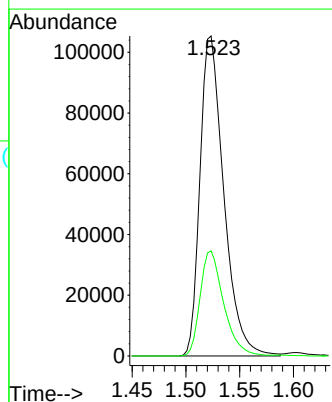
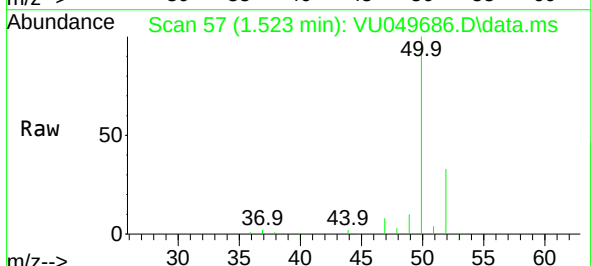
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

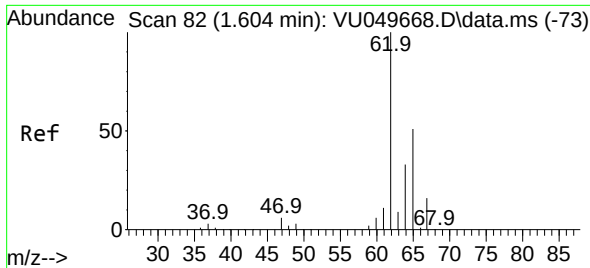
Tgt Ion: 85 Resp: 146687  
Ion Ratio Lower Upper  
85 100  
87 32.8 26.3 39.5



#3  
Chloromethane  
Concen: 53.061 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 50 Resp: 162183  
Ion Ratio Lower Upper  
50 100  
52 32.9 23.2 43.0

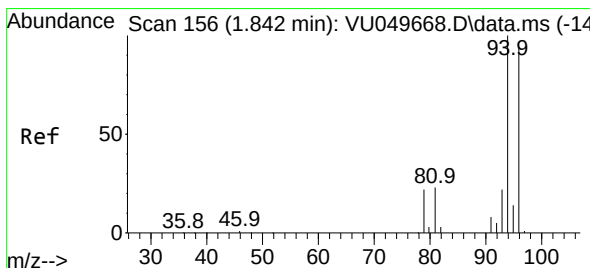
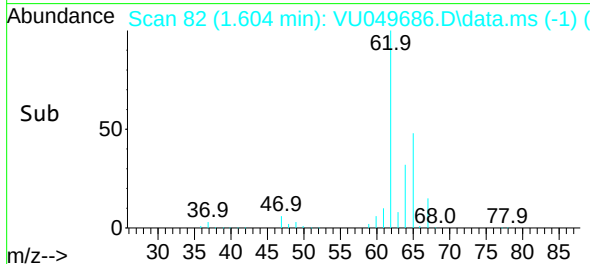
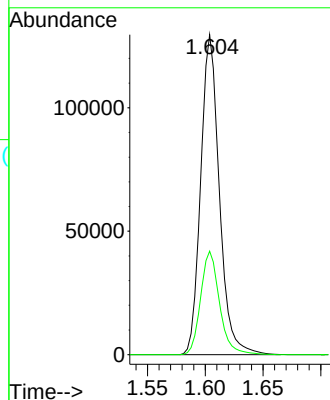
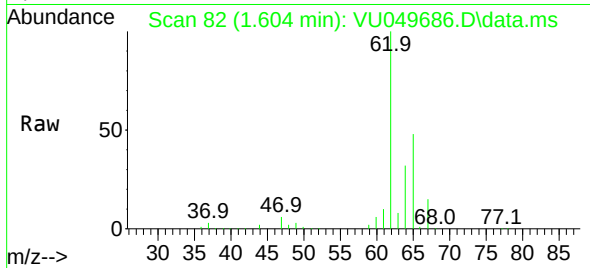




#5  
 Vinyl chloride  
 Concen: 52.647 ug/L  
 RT: 1.604 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VU049686.D  
 Acq: 12 Jul 2022 10:02

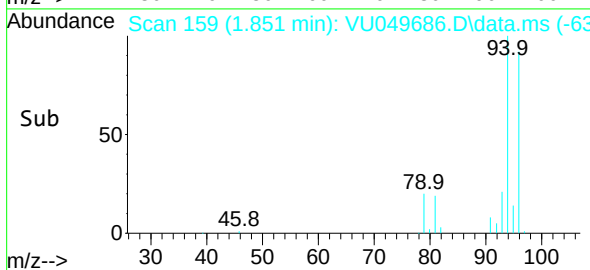
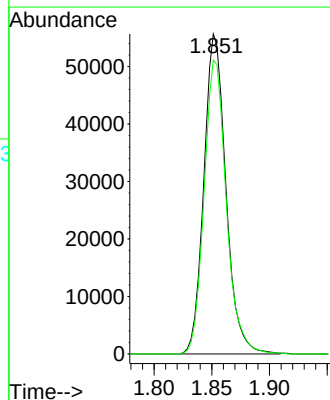
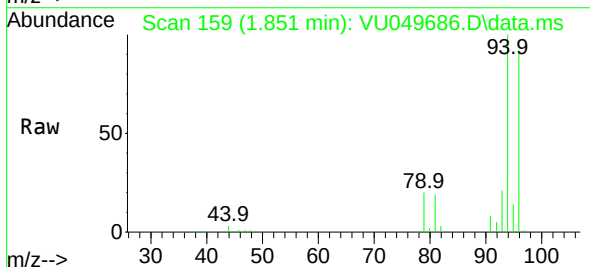
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 ClientSampleId :  
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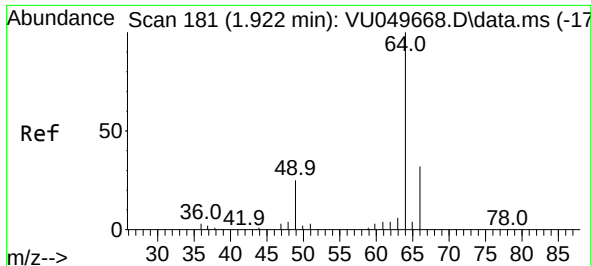
Tgt Ion: 62 Resp: 145410  
 Ion Ratio Lower Upper  
 62 100  
 64 32.3 23.0 42.6



#6  
 Bromomethane  
 Concen: 57.980 ug/L  
 RT: 1.851 min Scan# 159  
 Delta R.T. 0.010 min  
 Lab File: VU049686.D  
 Acq: 12 Jul 2022 10:02

Tgt Ion: 94 Resp: 73990  
 Ion Ratio Lower Upper  
 94 100  
 96 91.9 66.1 122.7

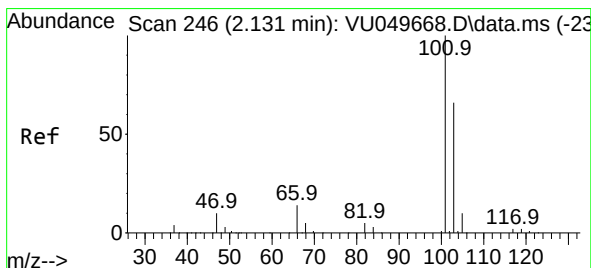
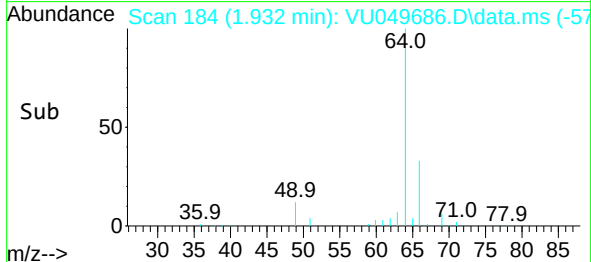
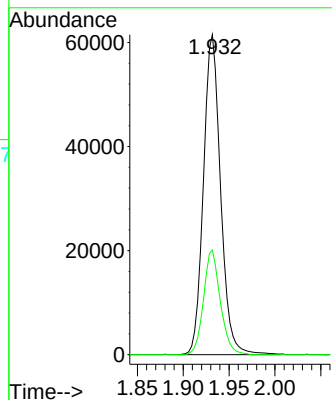
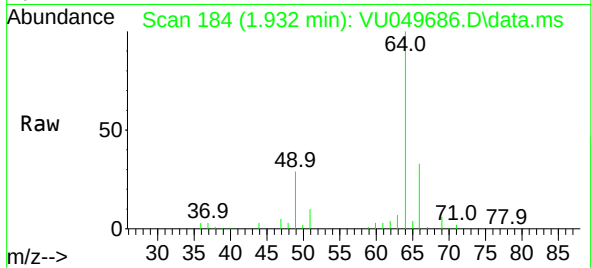




#8  
Chloroethane  
Concen: 52.381 ug/L  
RT: 1.932 min Scan# 184  
Delta R.T. 0.010 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

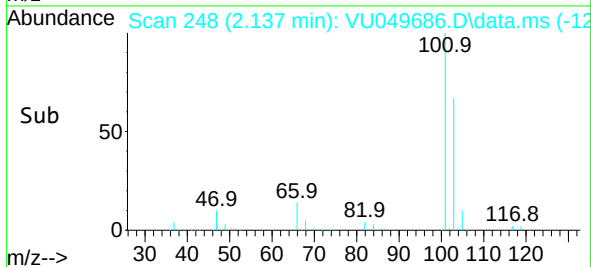
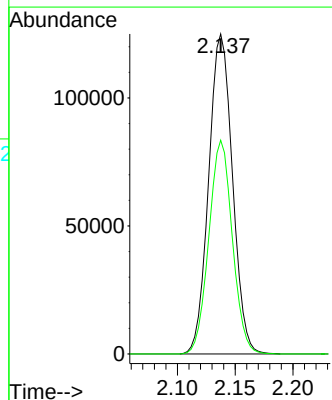
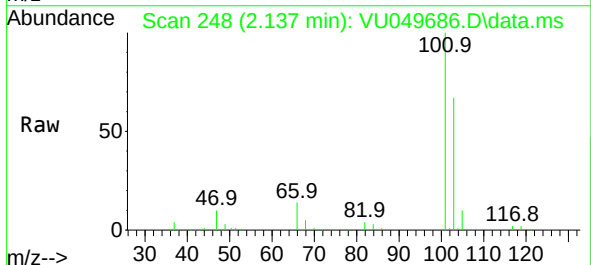
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

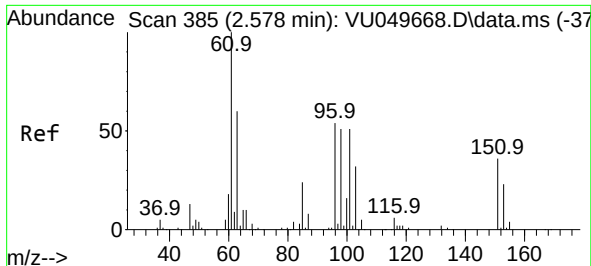
Tgt Ion: 64 Resp: 80144  
Ion Ratio Lower Upper  
64 100  
66 32.7 22.1 41.1



#9  
Trichlorofluoromethane  
Concen: 52.479 ug/L  
RT: 2.137 min Scan# 248  
Delta R.T. 0.006 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion:101 Resp: 179004  
Ion Ratio Lower Upper  
101 100  
103 66.0 52.2 78.4

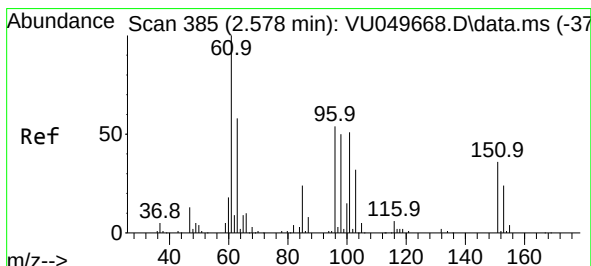
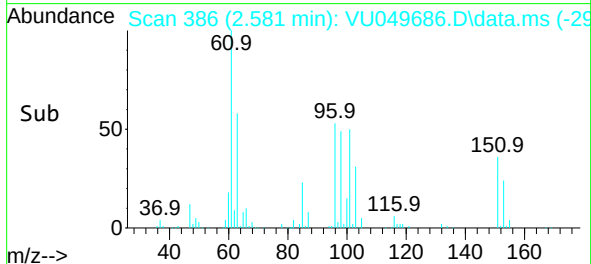
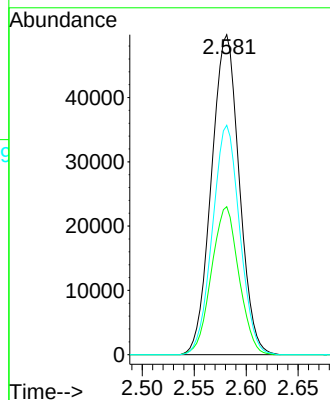
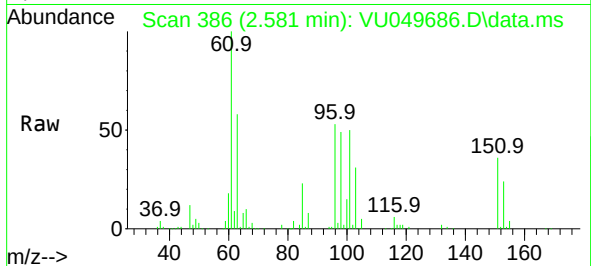




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 51.871 ug/L  
 RT: 2.581 min Scan# 386  
 Delta R.T. 0.003 min  
 Lab File: VU049686.D  
 Acq: 12 Jul 2022 10:02

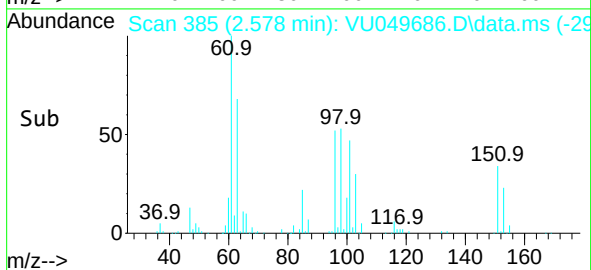
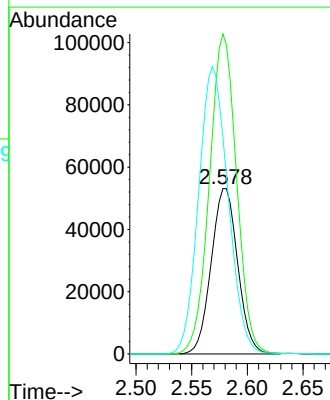
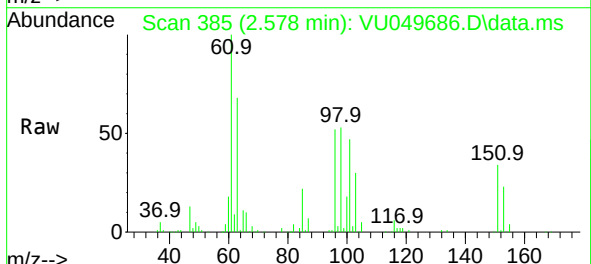
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050159

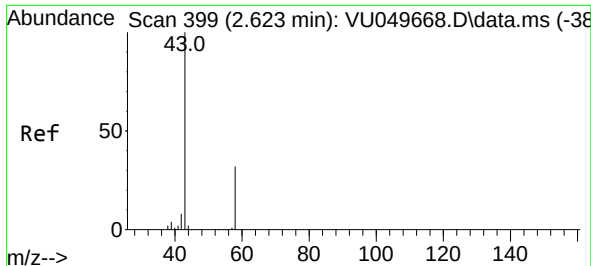
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 Ion Ratio Lower Upper  
 101 100  
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 151 70.5 56.9 85.3



#12  
 1,1-Dichloroethene  
 Concen: 52.911 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. -0.000 min  
 Lab File: VU049686.D  
 Acq: 12 Jul 2022 10:02

Tgt Ion: 96 Resp: 87892  
 Ion Ratio Lower Upper  
 96 100  
 61 193.3 129.6 240.6  
 63 130.9 79.0 146.6





#13

Acetone

Concen: 81.560 ug/L

RT: 2.626 min Scan# 400

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

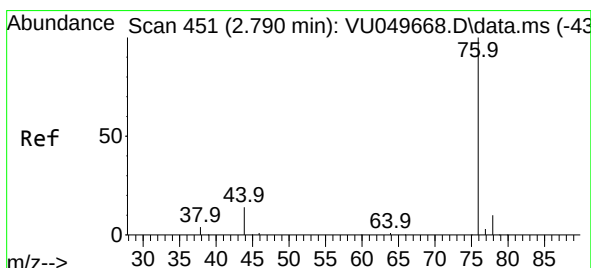
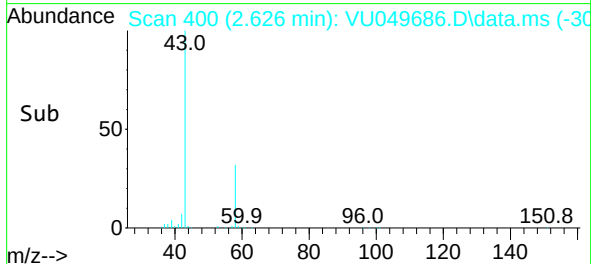
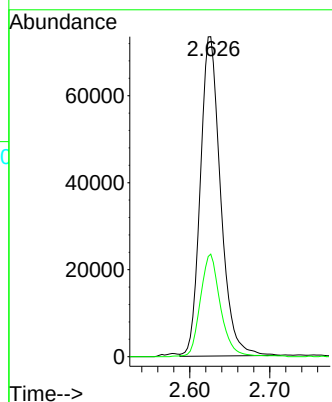
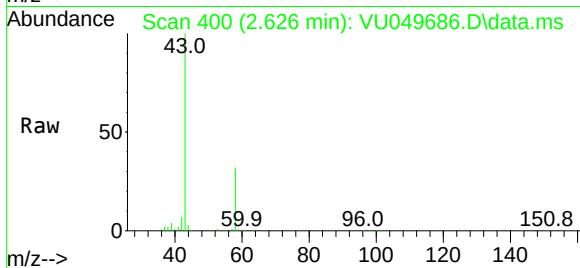
VSTD050159

Tgt Ion: 43 Resp: 129710

Ion Ratio Lower Upper

43 100

58 31.8 0.0 61.4



#14

Carbon disulfide

Concen: 49.742 ug/L

RT: 2.793 min Scan# 452

Delta R.T. 0.003 min

Lab File: VU049686.D

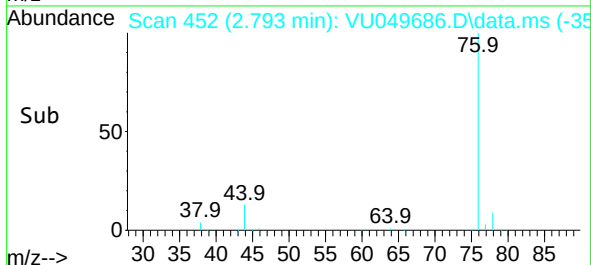
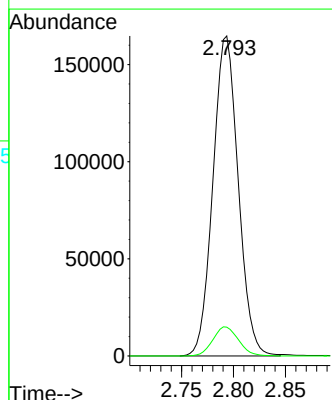
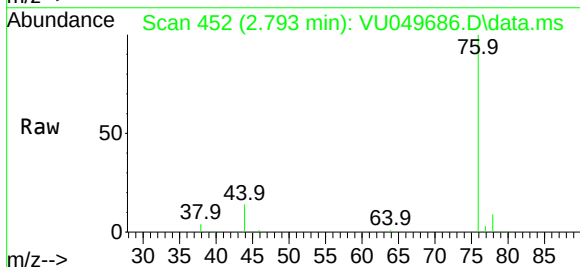
Acq: 12 Jul 2022 10:02

Tgt Ion: 76 Resp: 278637

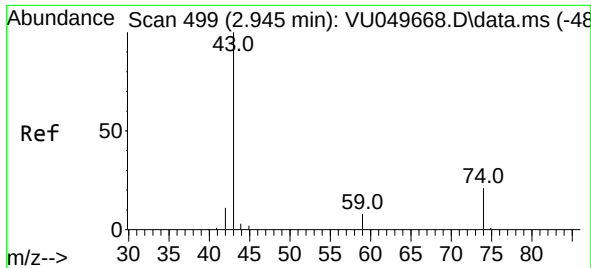
Ion Ratio Lower Upper

76 100

78 9.0 7.6 11.4



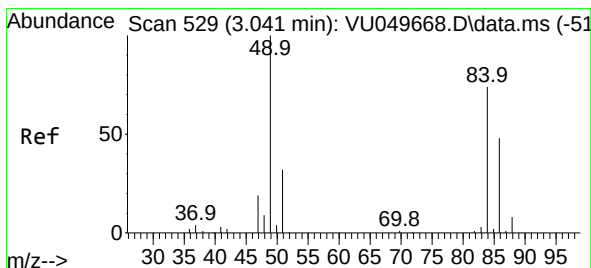
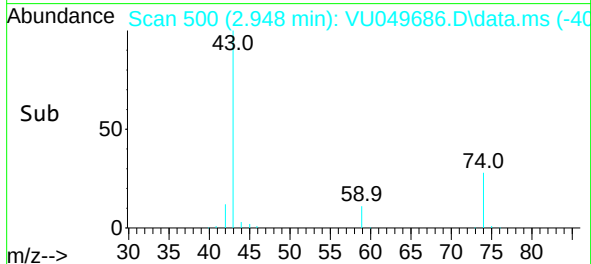
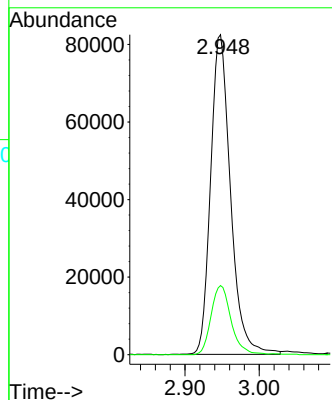
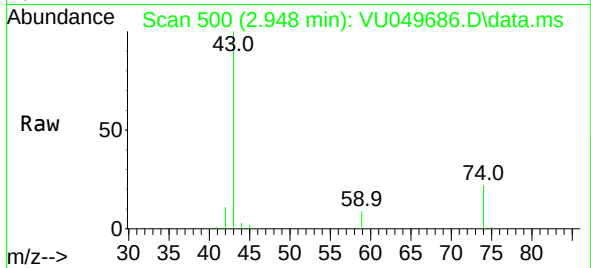




#15  
Methyl Acetate  
Concen: 59.239 ug/L  
RT: 2.948 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

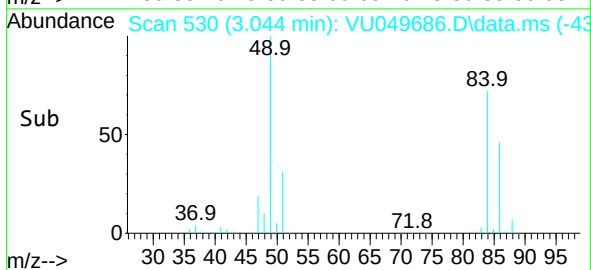
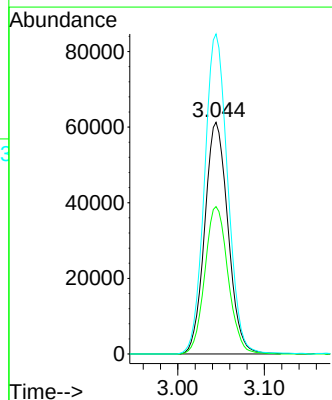
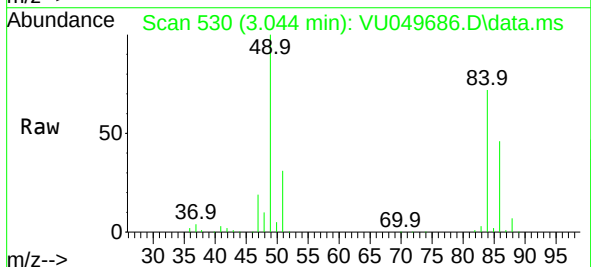
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

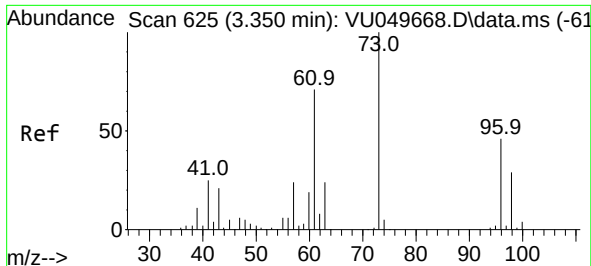
Tgt Ion: 43 Resp: 153060  
Ion Ratio Lower Upper  
43 100  
74 21.8 17.4 26.0



#16  
Methylene chloride  
Concen: 54.938 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 84 Resp: 114921  
Ion Ratio Lower Upper  
84 100  
86 63.6 45.6 84.6  
49 138.1 94.4 175.4

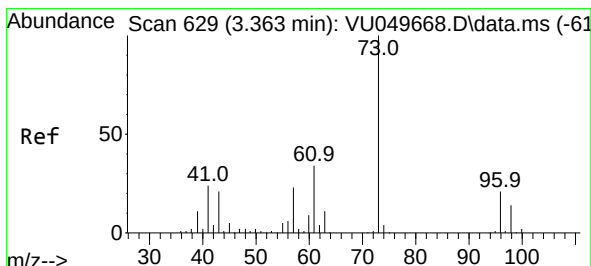
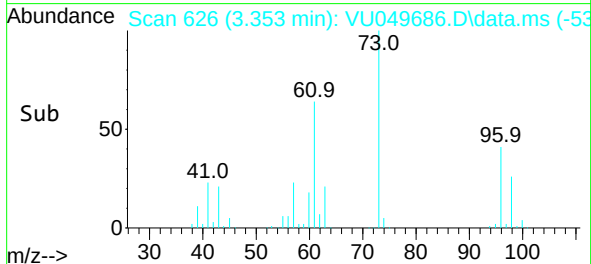
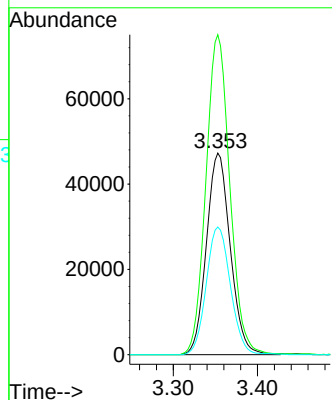
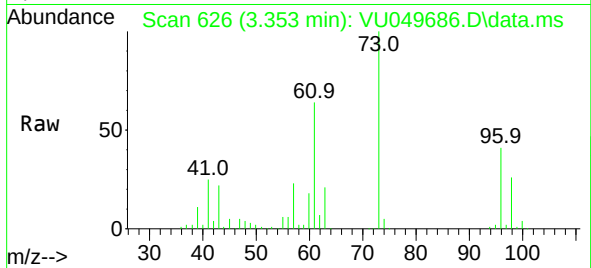




#17  
trans-1,2-Dichloroethene  
Concen: 51.243 ug/L  
RT: 3.353 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

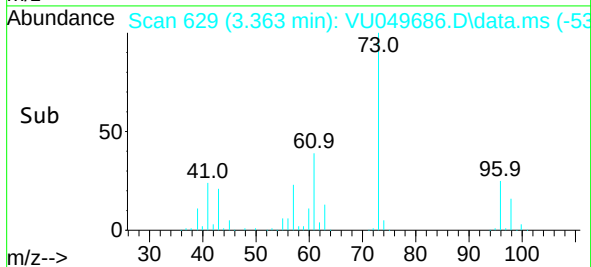
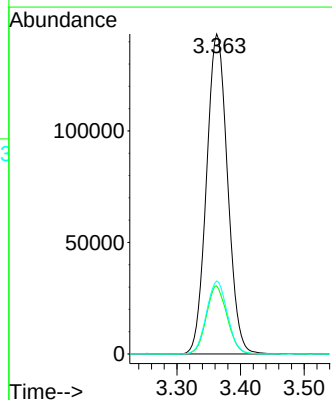
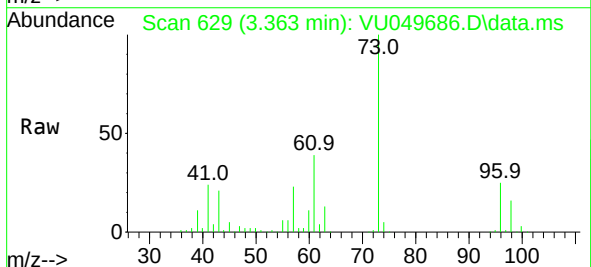
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

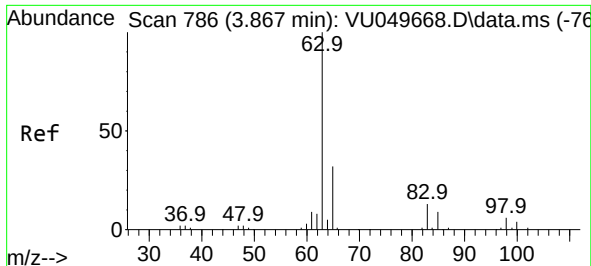
Tgt Ion: 96 Resp: 93118  
Ion Ratio Lower Upper  
96 100  
61 158.7 107.6 199.8  
98 63.3 44.6 82.8



#18  
Methyl tert-butyl Ether  
Concen: 52.996 ug/L  
RT: 3.363 min Scan# 629  
Delta R.T. -0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 73 Resp: 329855  
Ion Ratio Lower Upper  
73 100  
43 20.9 17.0 25.4  
57 22.7 18.5 27.7





#19

1,1-Dichloroethane

Concen: 53.660 ug/L

RT: 3.867 min Scan# 71

Delta R.T. 0.000 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050159

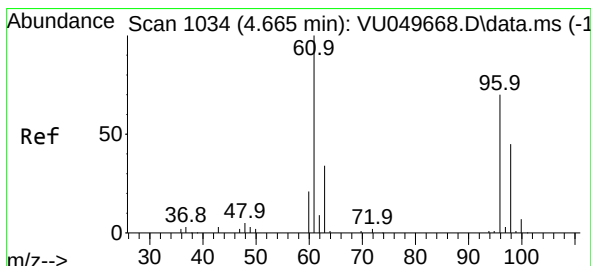
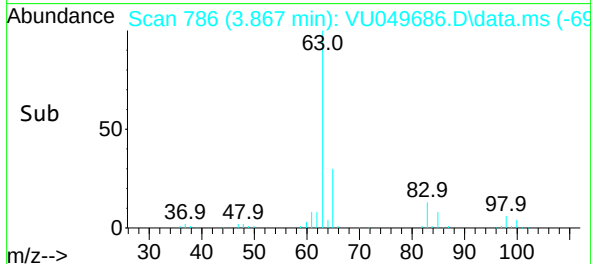
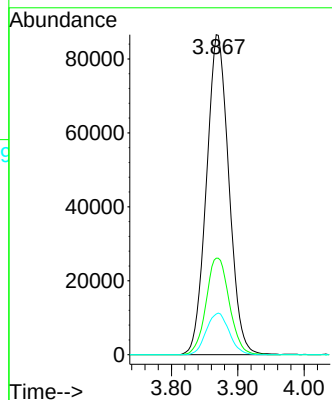
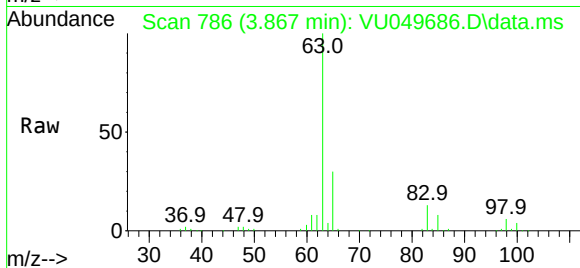
Tgt Ion: 63 Resp: 203006

Ion Ratio Lower Upper

63 100

65 30.1 22.6 42.0

83 12.7 9.2 17.2



#20

cis-1,2-Dichloroethene

Concen: 54.137 ug/L

RT: 4.668 min Scan# 1035

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

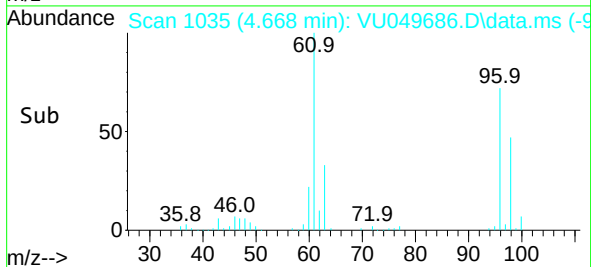
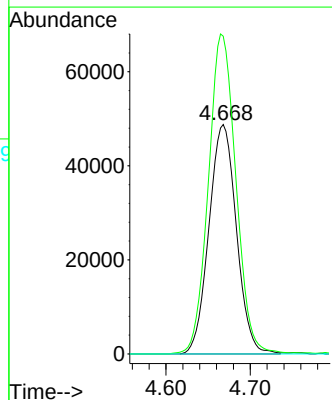
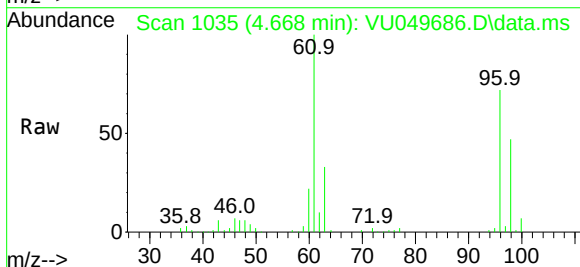
Tgt Ion: 96 Resp: 110562

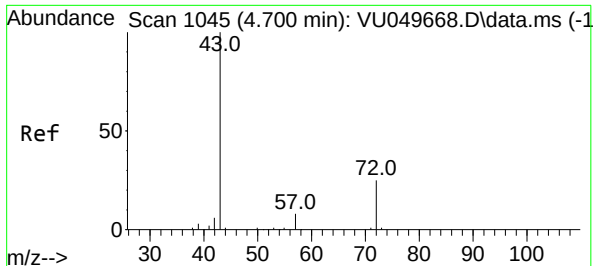
Ion Ratio Lower Upper

96 100

61 138.5 101.1 187.7

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 95.944 ug/L

RT: 4.700 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

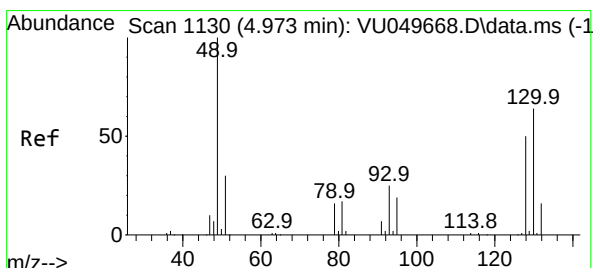
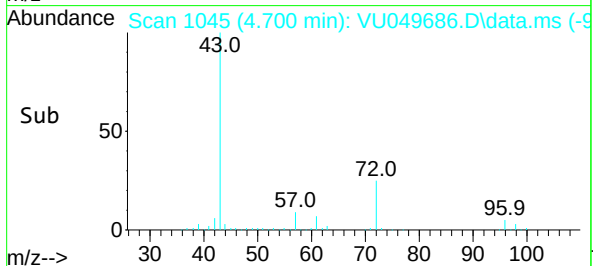
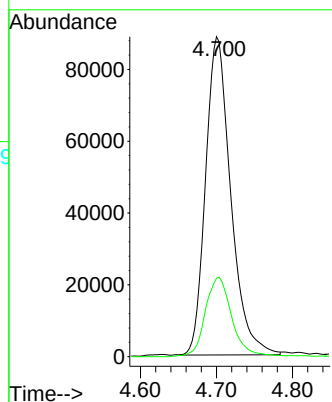
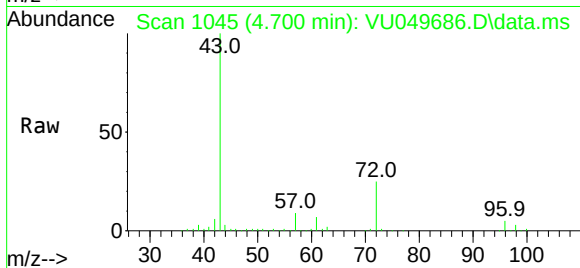
VSTD050159

Tgt Ion: 43 Resp: 204291

Ion Ratio Lower Upper

43 100

72 26.3 12.7 38.0



#23

Bromochloromethane

Concen: 54.262 ug/L

RT: 4.977 min Scan# 1131

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Tgt Ion:128 Resp: 55295

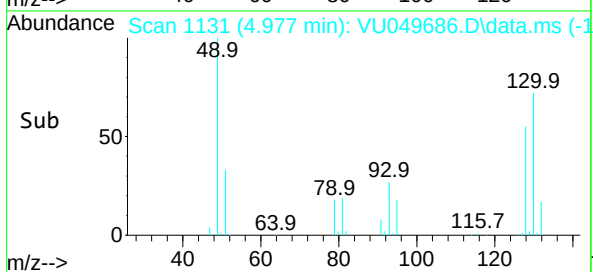
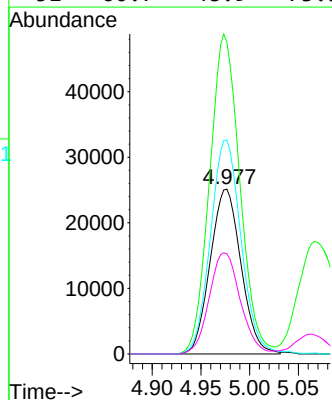
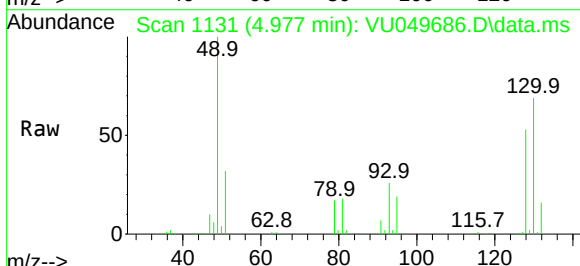
Ion Ratio Lower Upper

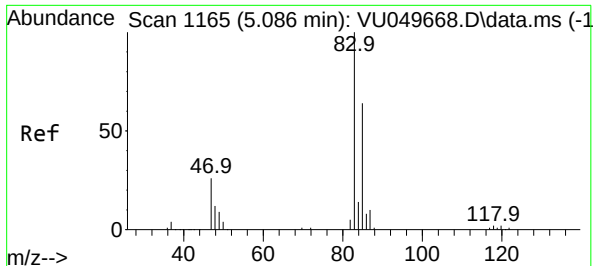
128 100

49 189.1 140.9 261.7

130 129.8 90.0 167.2

51 60.7 48.9 73.3





#25

Chloroform

Concen: 53.630 ug/L

RT: 5.089 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

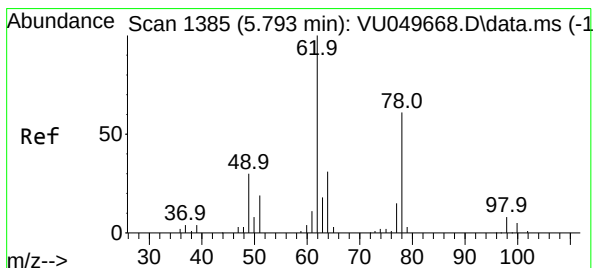
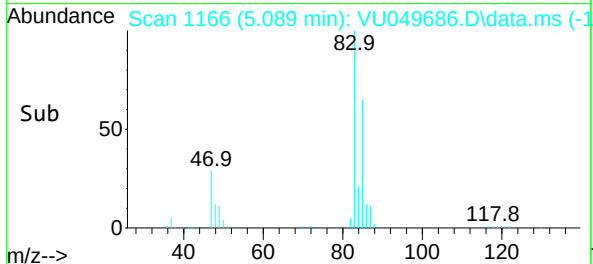
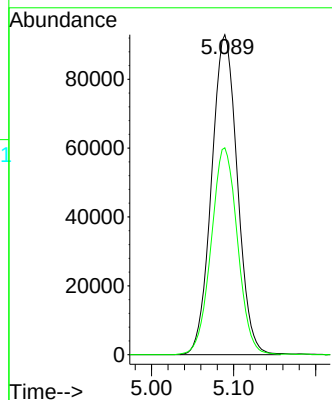
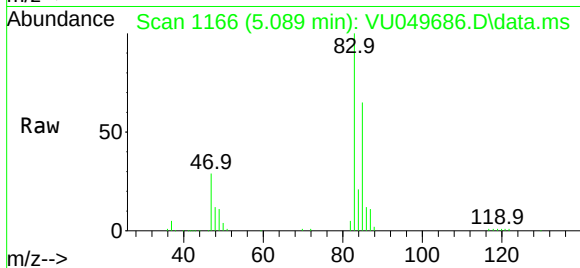
VSTD050159

Tgt Ion: 83 Resp: 203449

Ion Ratio Lower Upper

83 100

85 64.6 45.2 84.0



#27

1,2-Dichloroethane

Concen: 52.494 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.000 min

Lab File: VU049686.D

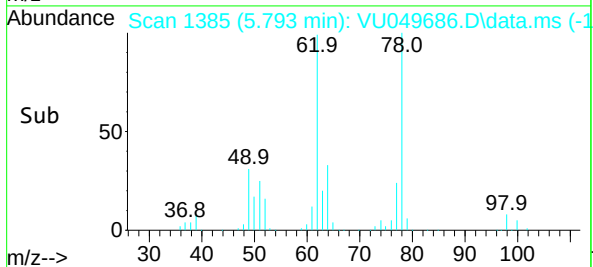
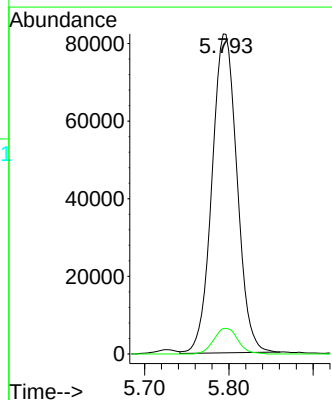
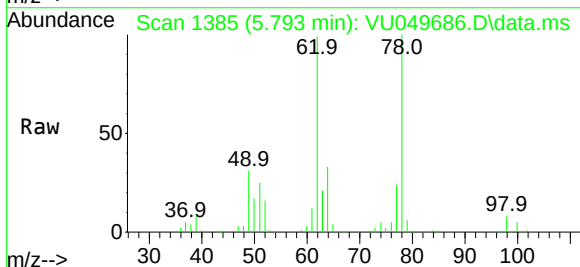
Acq: 12 Jul 2022 10:02

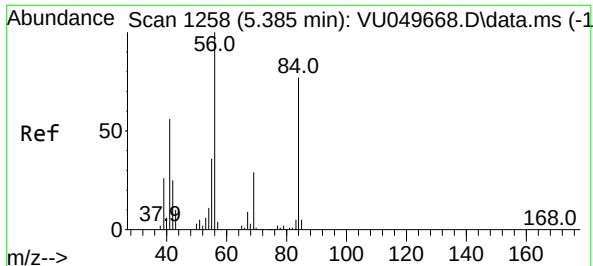
Tgt Ion: 62 Resp: 169569

Ion Ratio Lower Upper

62 100

98 8.0 6.7 10.1





#29

Cyclohexane

Concen: 52.731 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050159

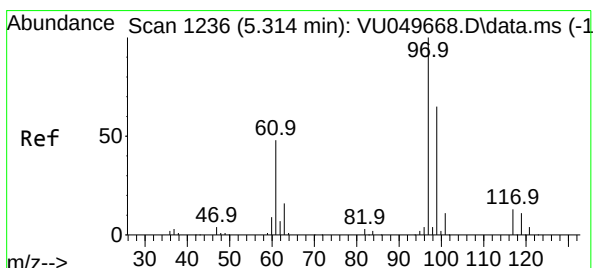
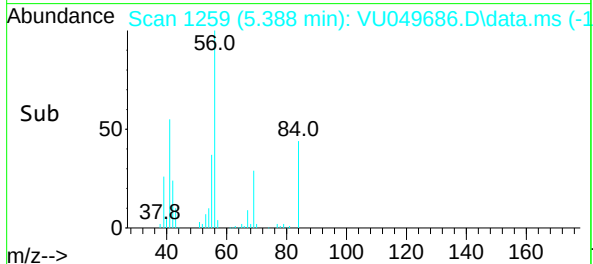
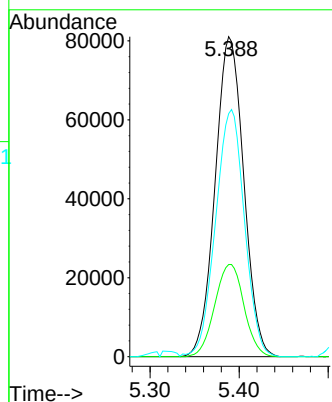
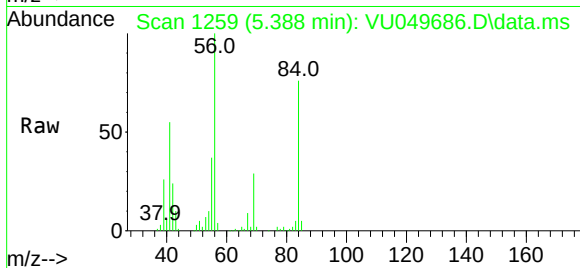
Tgt Ion: 56 Resp: 180770

Ion Ratio Lower Upper

56 100

69 29.5 23.4 35.2

84 78.0 63.1 94.7



#30

1,1,1-Trichloroethane

Concen: 54.319 ug/L

RT: 5.317 min Scan# 1237

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

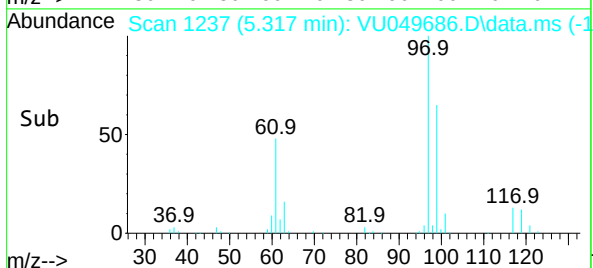
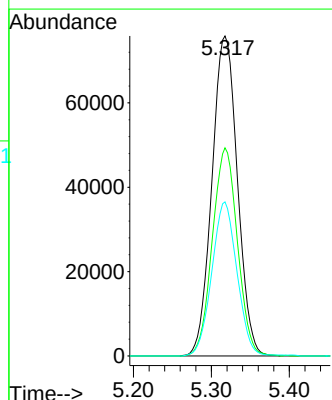
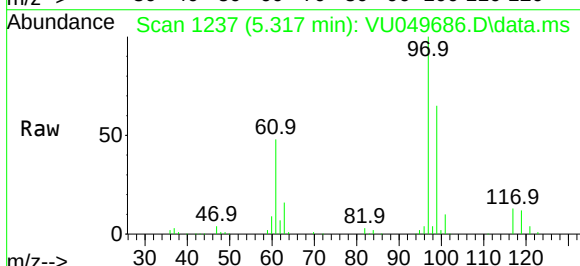
Tgt Ion: 97 Resp: 172713

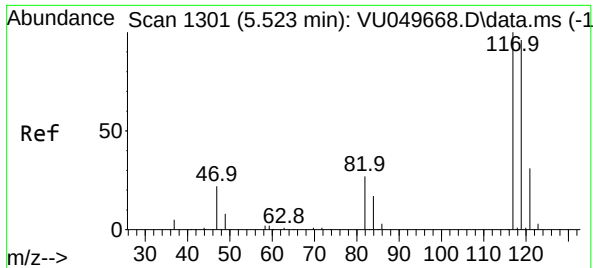
Ion Ratio Lower Upper

97 100

99 64.0 51.3 76.9

61 47.4 38.2 57.2

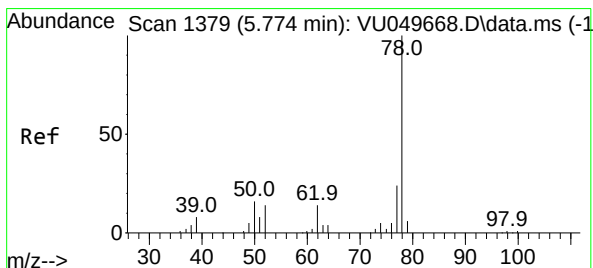
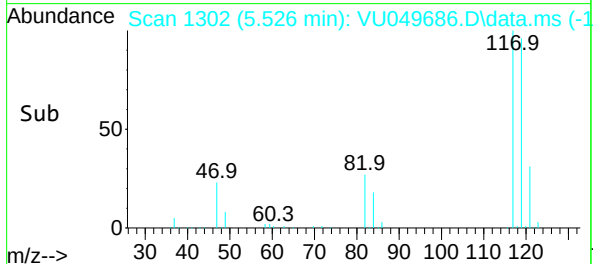
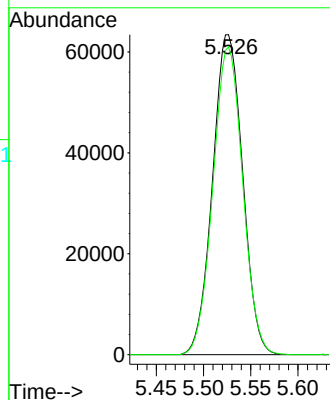
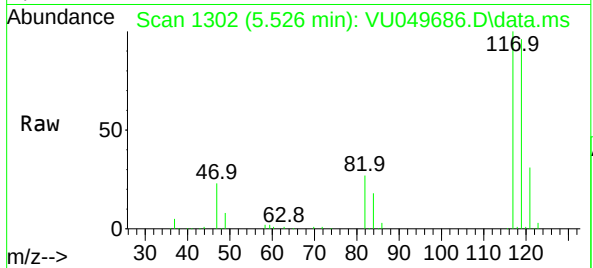




#31  
Carbon tetrachloride  
Concen: 53.864 ug/L  
RT: 5.526 min Scan# 117  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

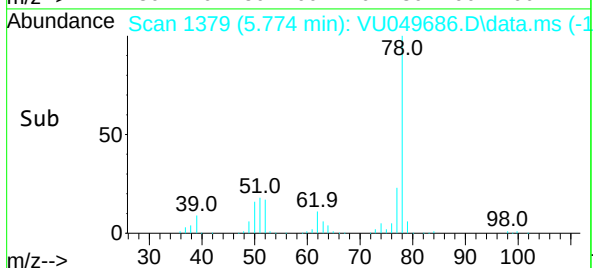
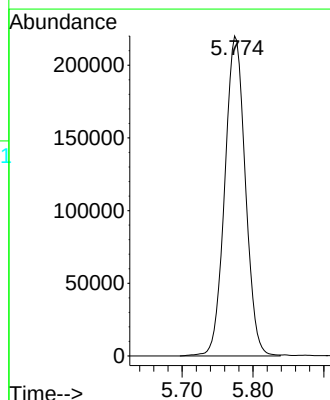
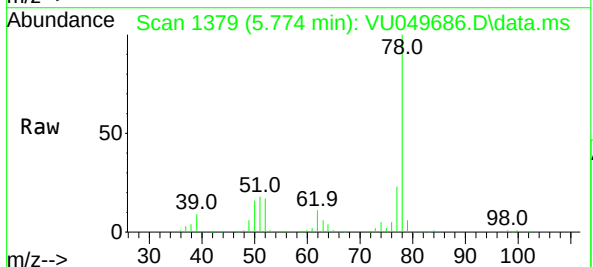
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

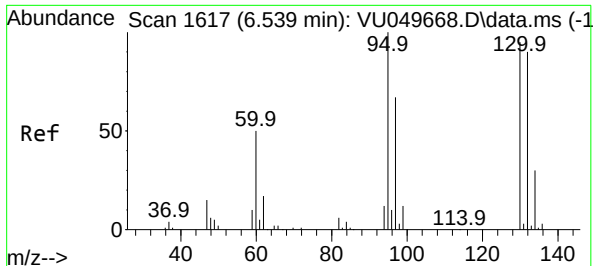
Tgt Ion:117 Resp: 140077  
Ion Ratio Lower Upper  
117 100  
119 95.5 75.8 113.8



#33  
Benzene  
Concen: 53.833 ug/L  
RT: 5.774 min Scan# 1379  
Delta R.T. 0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 78 Resp: 444425





#34

Trichloroethene

Concen: 53.325 ug/L

RT: 6.542 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050159

Tgt Ion: 95 Resp: 106414

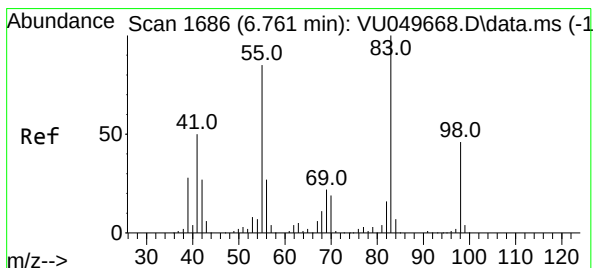
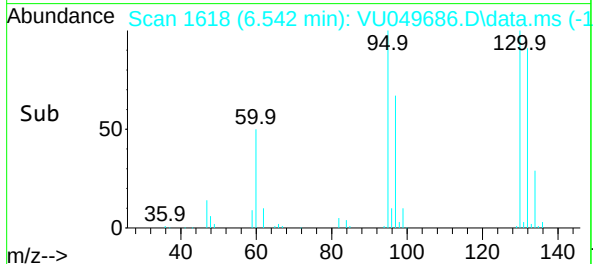
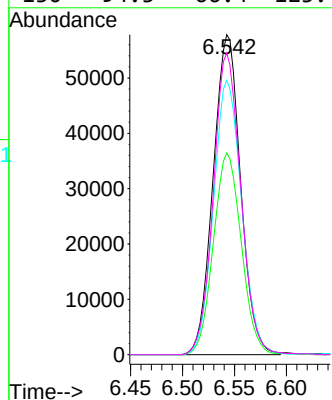
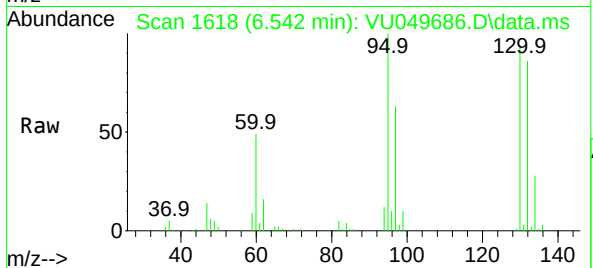
Ion Ratio Lower Upper

95 100

97 63.1 46.9 87.1

132 85.7 62.7 116.5

130 94.3 66.4 123.4



#35

Methylcyclohexane

Concen: 53.361 ug/L

RT: 6.764 min Scan# 1687

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

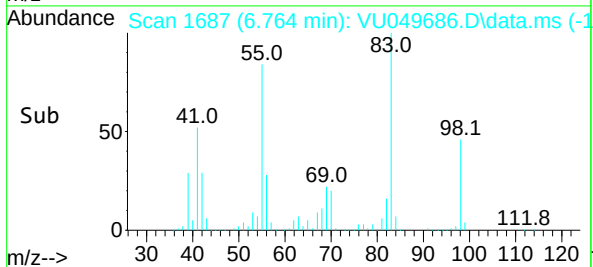
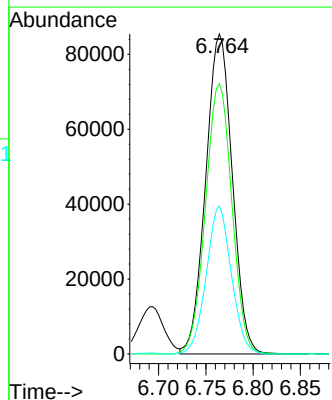
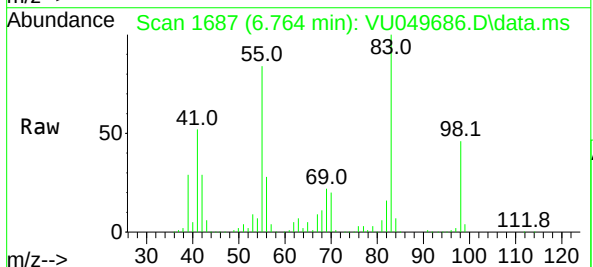
Tgt Ion: 83 Resp: 167331

Ion Ratio Lower Upper

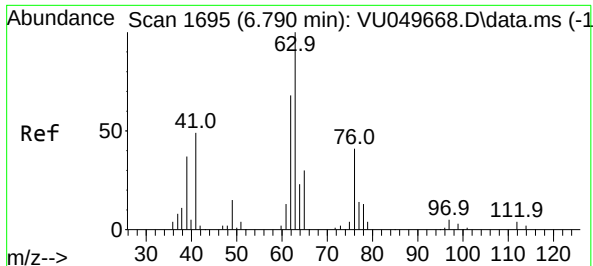
83 100

55 83.9 66.0 99.0

98 43.6 34.6 51.8



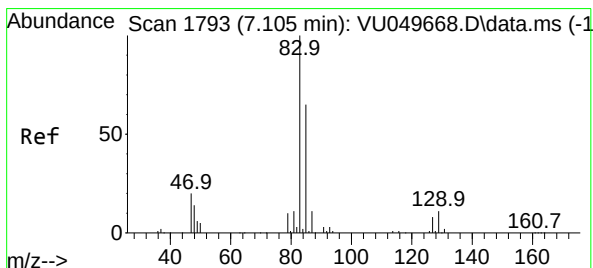
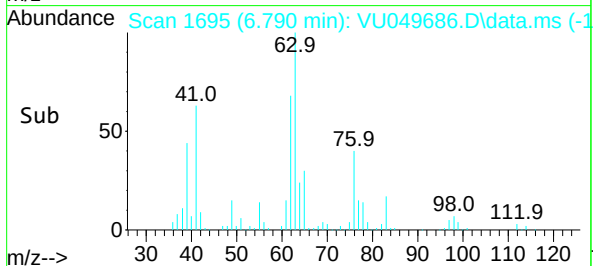
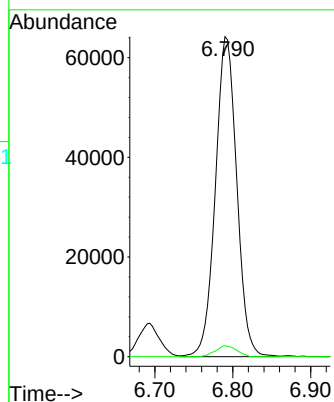
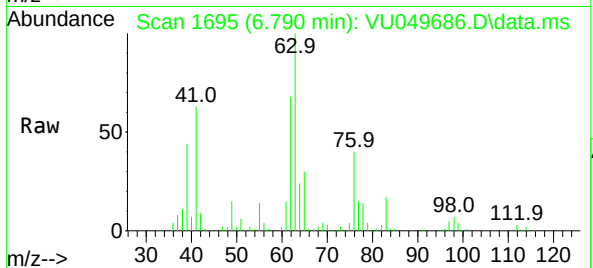




#37  
1,2-Dichloropropane  
Concen: 53.453 ug/L  
RT: 6.790 min Scan# 1695  
Delta R.T. -0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

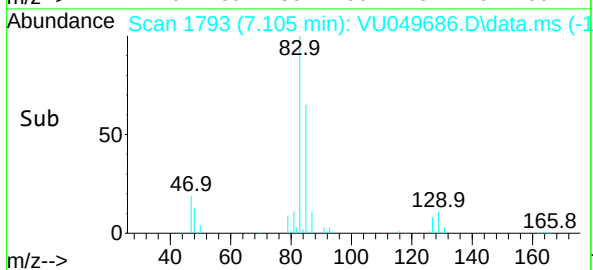
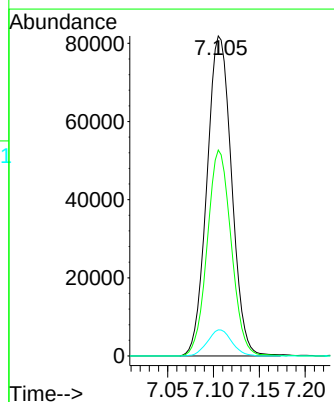
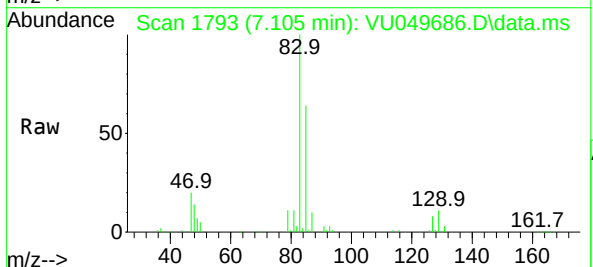
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

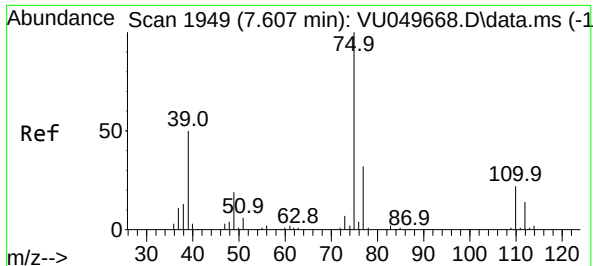
Tgt Ion: 63 Resp: 122312  
Ion Ratio Lower Upper  
63 100  
112 3.4 2.8 4.2



#38  
Bromodichloromethane  
Concen: 54.049 ug/L  
RT: 7.105 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 83 Resp: 153340  
Ion Ratio Lower Upper  
83 100  
85 64.4 45.4 84.2  
127 8.1 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 50.782 ug/L

RT: 7.607 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

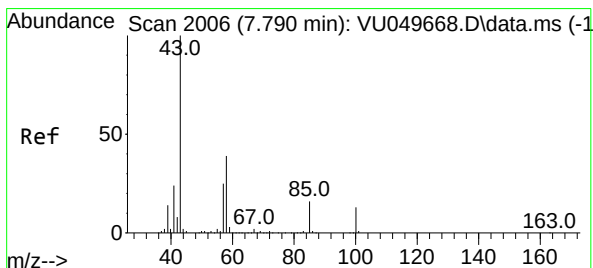
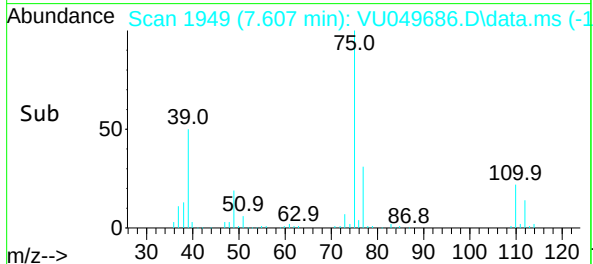
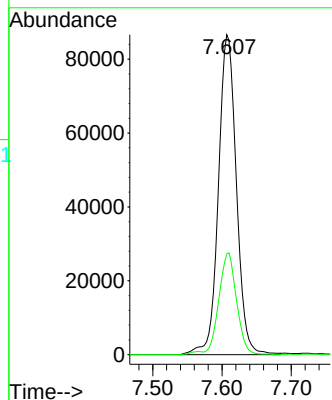
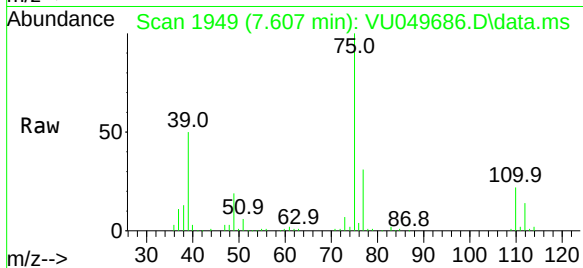
VSTD050159

Tgt Ion: 75 Resp: 156718

Ion Ratio Lower Upper

75 100

77 31.5 22.6 42.0



#40

4-Methyl-2-pentanone

Concen: 107.041 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

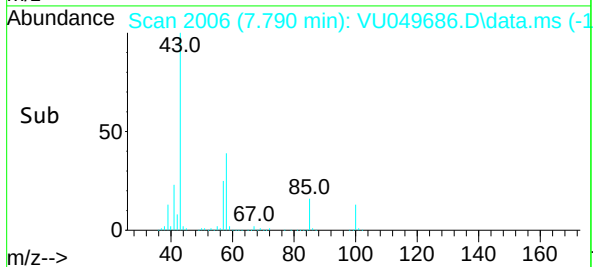
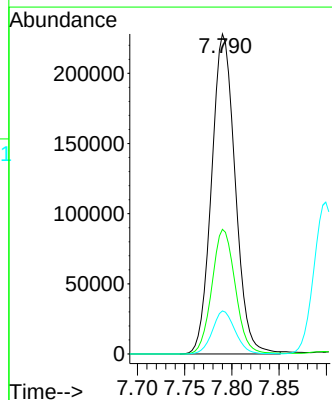
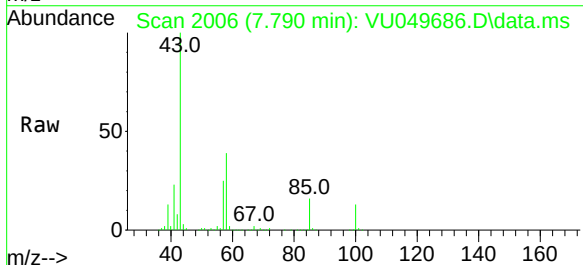
Tgt Ion: 43 Resp: 396521

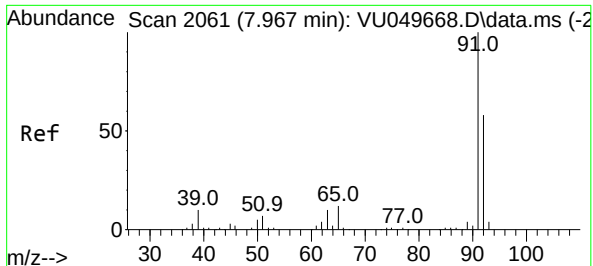
Ion Ratio Lower Upper

43 100

58 38.7 31.4 47.0

100 13.0 10.3 15.5

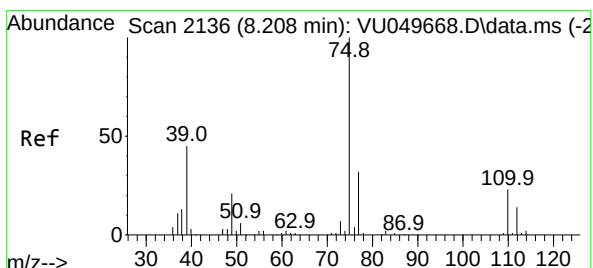
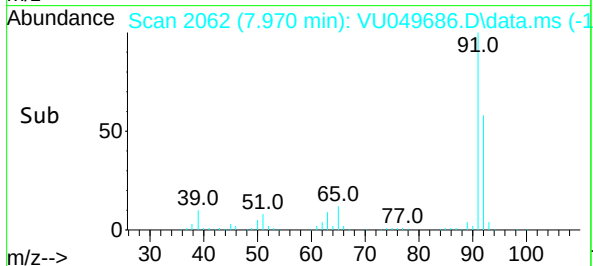
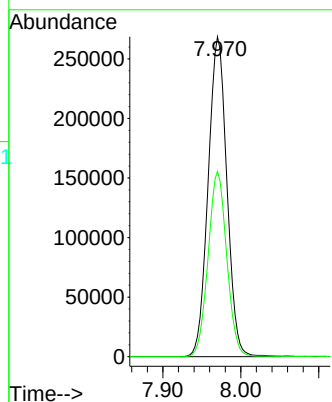
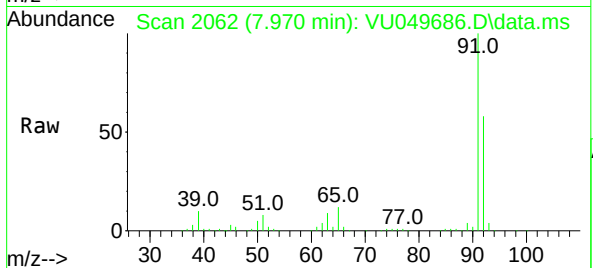




#42  
Toluene  
Concen: 54.636 ug/L  
RT: 7.970 min Scan# 2061  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

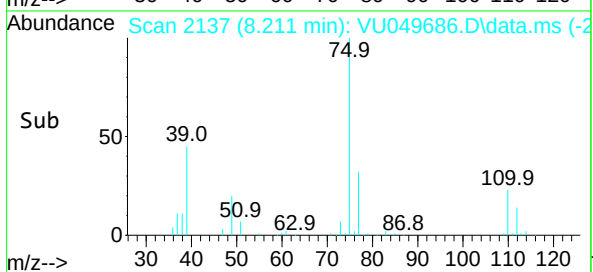
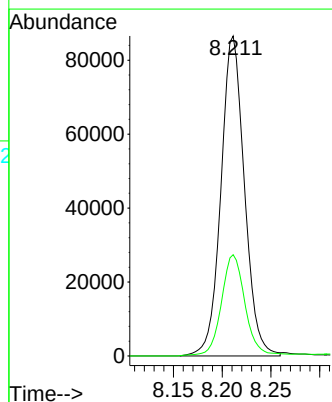
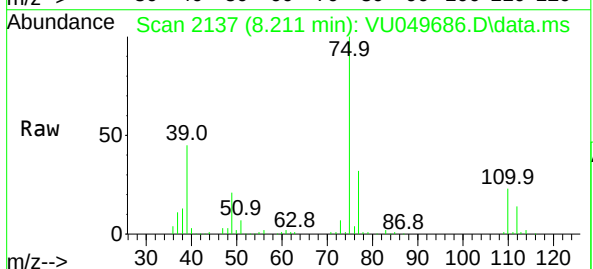
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

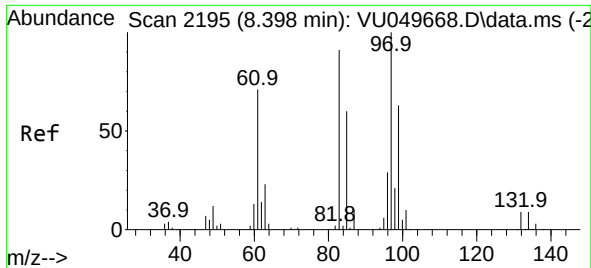
Tgt Ion: 91 Resp: 448283  
Ion Ratio Lower Upper  
91 100  
92 57.9 40.8 75.8



#44  
trans-1,3-Dichloropropene  
Concen: 50.048 ug/L  
RT: 8.211 min Scan# 2137  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 75 Resp: 145021  
Ion Ratio Lower Upper  
75 100  
77 31.7 22.5 41.9



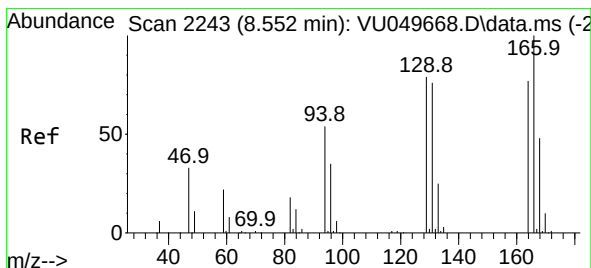
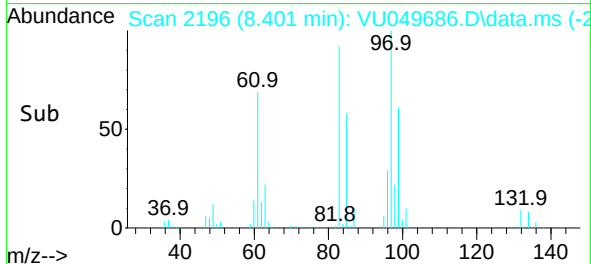
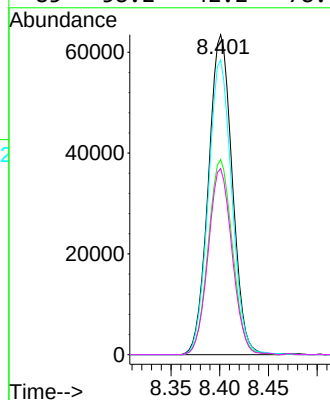
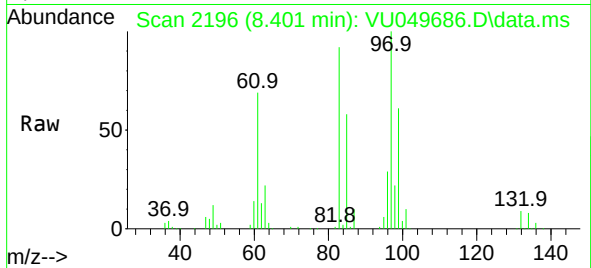


#45  
1,1,2-Trichloroethane  
Concen: 54.153 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

Tgt Ion: 97 Resp: 108159

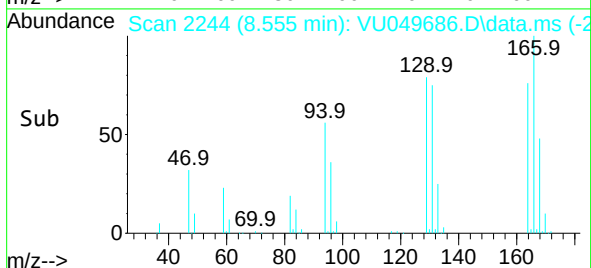
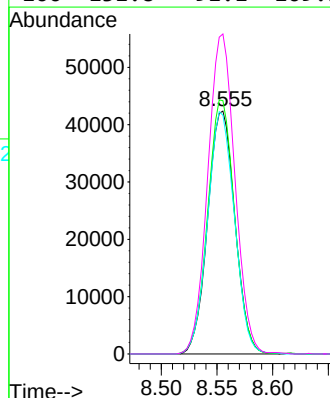
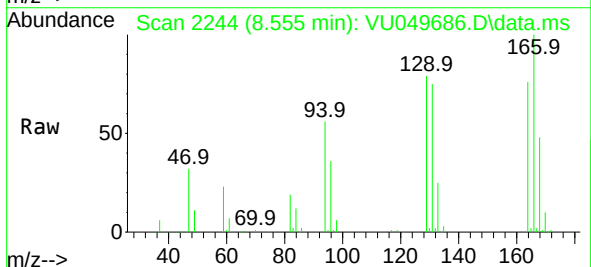
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.0  | 44.3  | 82.3  |
| 83  | 92.0  | 64.0  | 118.8 |
| 85  | 58.2  | 42.2  | 78.4  |

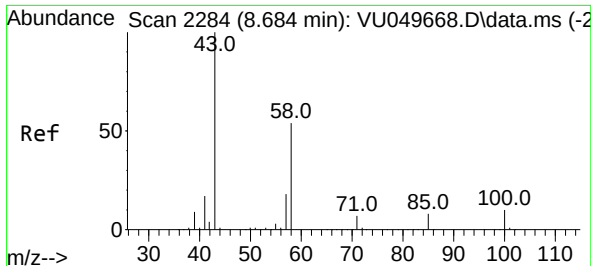


#46  
Tetrachloroethene  
Concen: 52.023 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 164 Resp: 72003

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 104.3 | 72.0  | 133.8 |
| 131 | 98.3  | 69.0  | 128.1 |
| 166 | 131.8 | 91.1  | 169.3 |

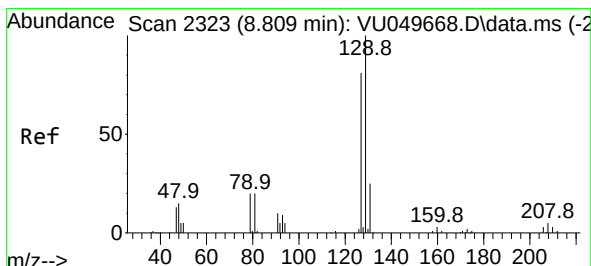
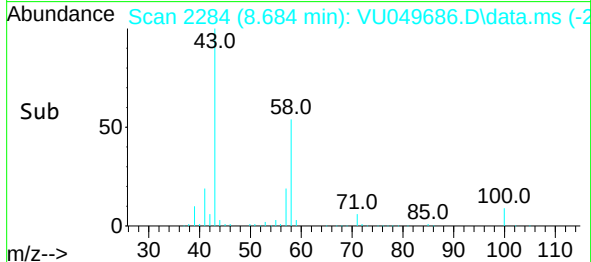
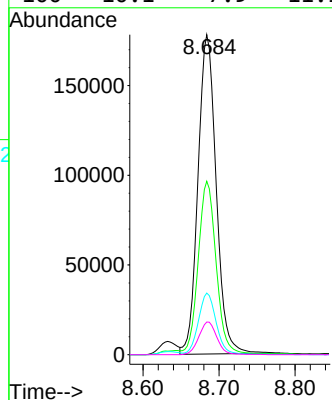
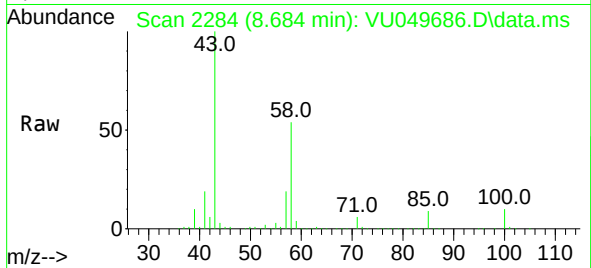




#48  
2-Hexanone  
Concen: 100.185 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

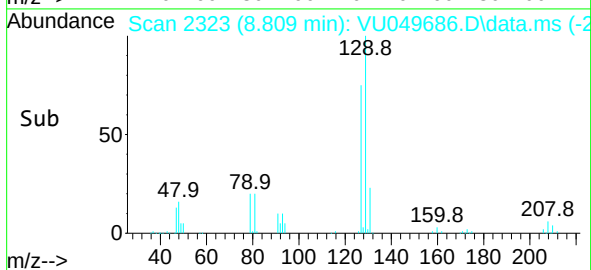
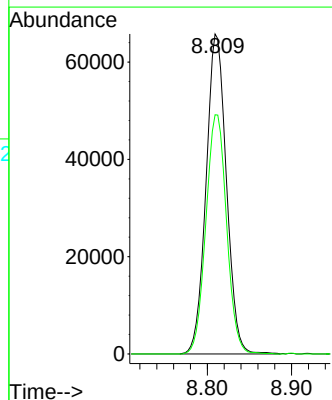
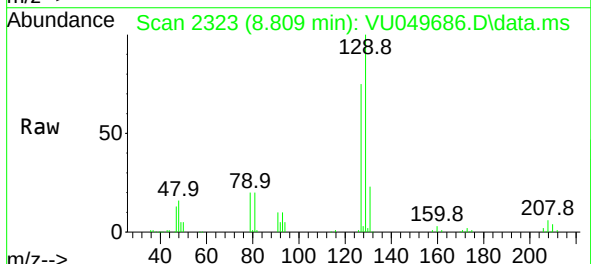
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

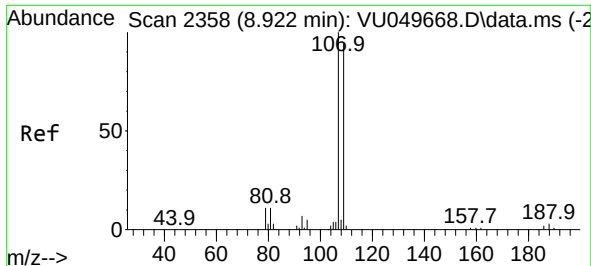
Tgt Ion: 43 Resp: 296572  
Ion Ratio Lower Upper  
43 100  
58 52.8 42.6 64.0  
57 18.6 15.0 22.6  
100 10.1 7.9 11.9



#49  
Dibromochloromethane  
Concen: 54.956 ug/L  
RT: 8.809 min Scan# 2323  
Delta R.T. 0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 129 Resp: 110398  
Ion Ratio Lower Upper  
129 100  
127 74.7 56.9 105.7

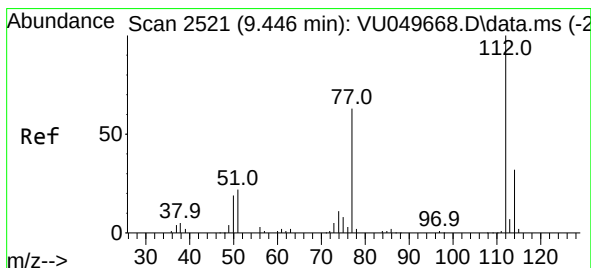
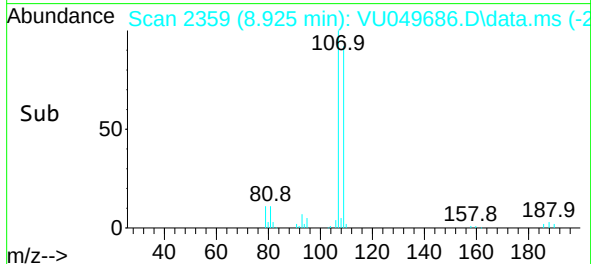
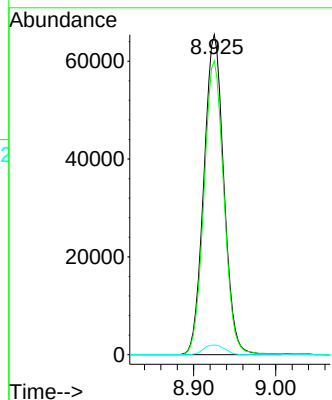
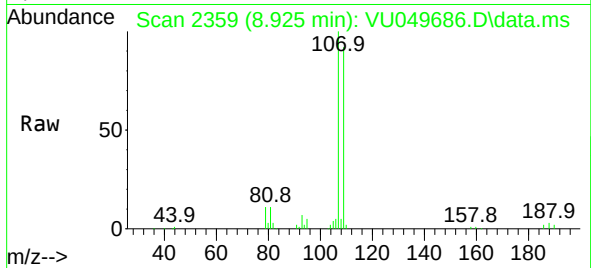




#50  
1,2-Dibromoethane  
Concen: 55.830 ug/L  
RT: 8.925 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

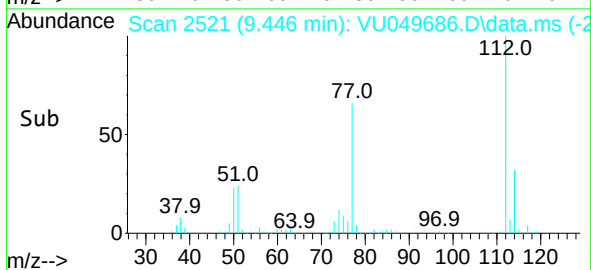
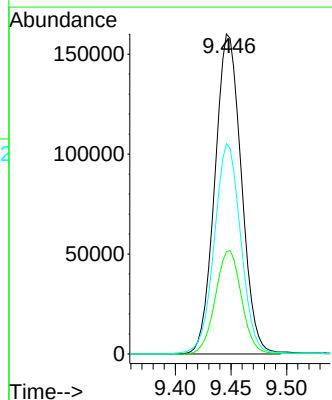
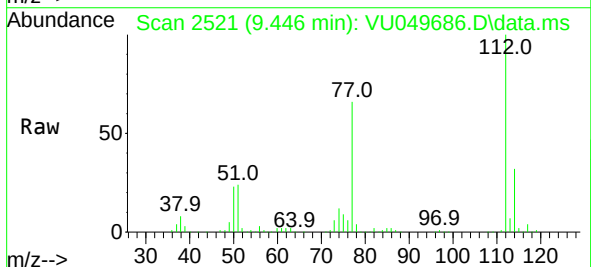
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

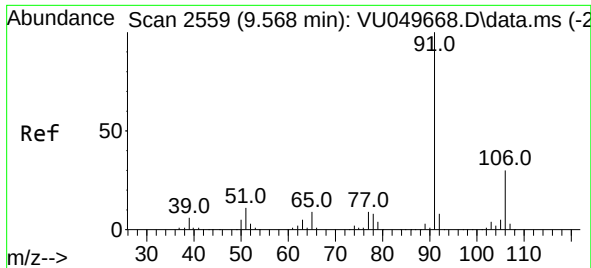
Tgt Ion:107 Resp: 110769  
Ion Ratio Lower Upper  
107 100  
109 91.8 65.7 121.9  
188 3.0 2.7 4.1



#51  
Chlorobenzene  
Concen: 53.356 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. 0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion:112 Resp: 265109  
Ion Ratio Lower Upper  
112 100  
114 32.0 22.1 41.1  
77 65.7 51.2 76.8

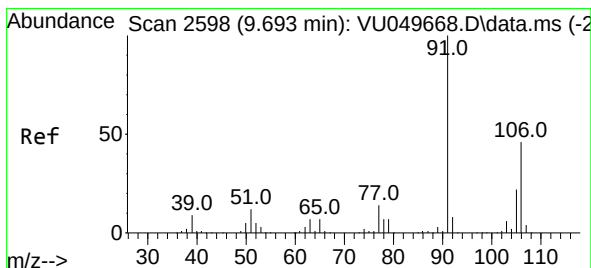
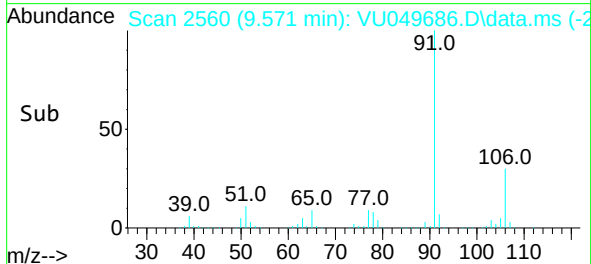
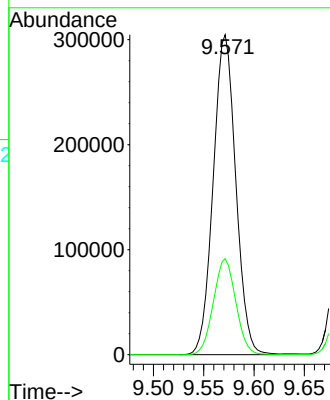
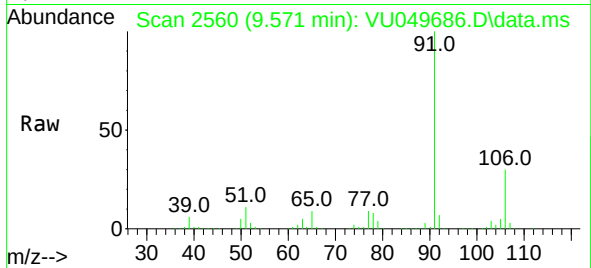




#52  
Ethylbenzene  
Concen: 54.923 ug/L  
RT: 9.571 min Scan# 2560  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

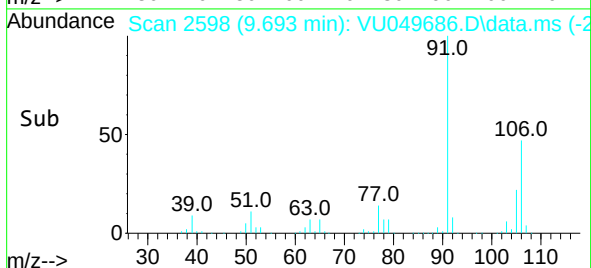
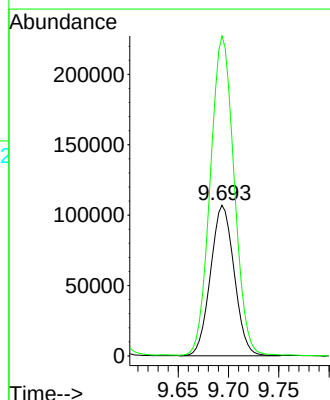
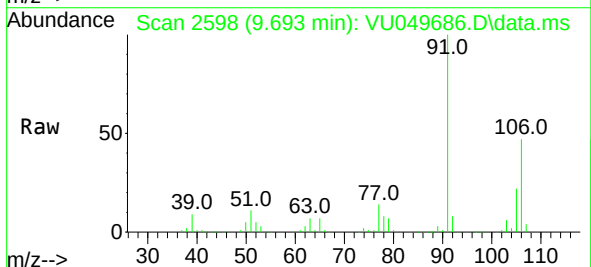
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

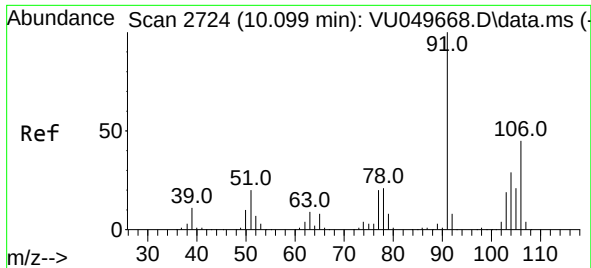
Tgt Ion: 91 Resp: 475541  
Ion Ratio Lower Upper  
91 100  
106 30.0 21.0 39.0



#53  
m,p-Xylene  
Concen: 55.497 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. -0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 106 Resp: 174724  
Ion Ratio Lower Upper  
106 100  
91 212.3 151.7 281.7

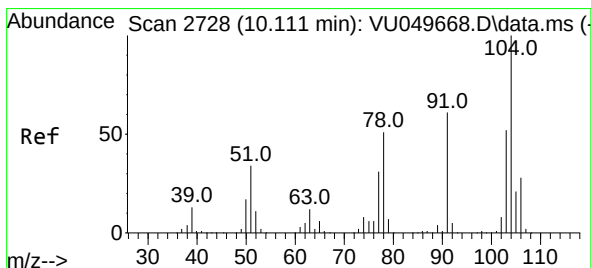
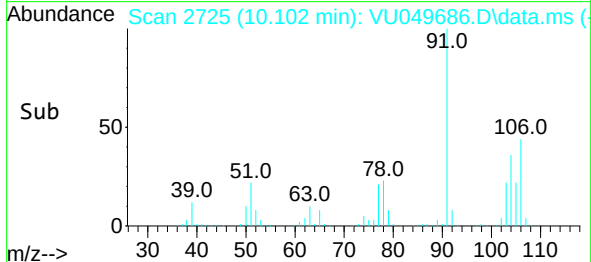
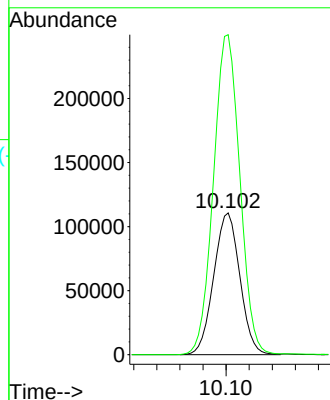
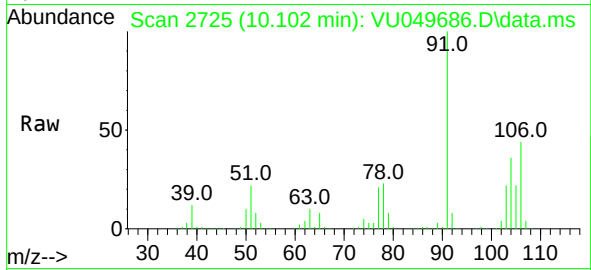




#54  
o-Xylene  
Concen: 54.837 ug/L  
RT: 10.102 min Scan# 2725  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

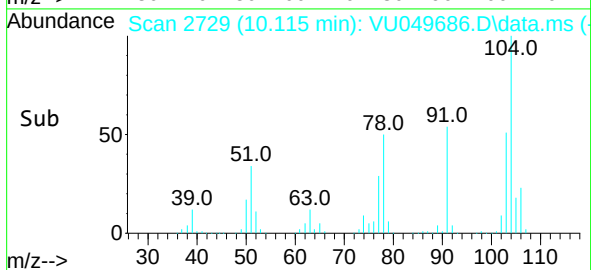
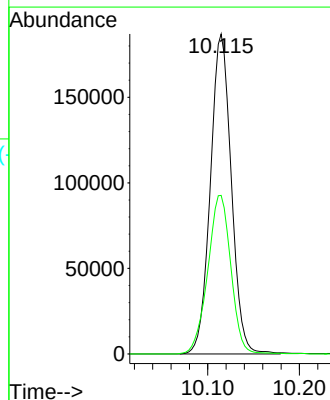
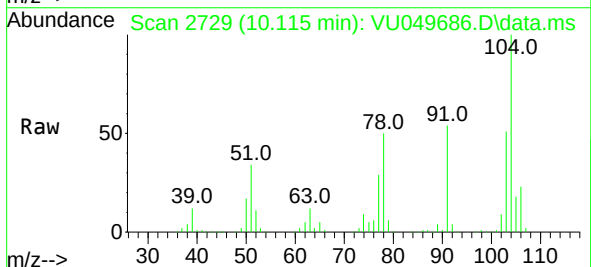
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

Tgt Ion:106 Resp: 173838  
Ion Ratio Lower Upper  
106 100  
91 225.8 156.9 291.5

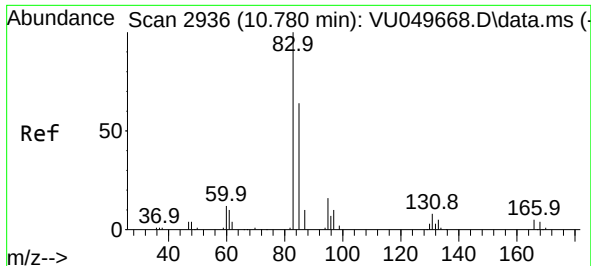


#55  
Styrene  
Concen: 56.662 ug/L  
RT: 10.115 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion:104 Resp: 296435  
Ion Ratio Lower Upper  
104 100  
78 49.6 36.1 67.1







#57

1,1,2,2-Tetrachloroethane

Concen: 53.623 ug/L

RT: 10.783 min Scan# 2937

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050159

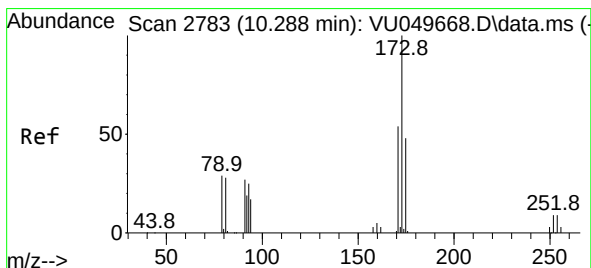
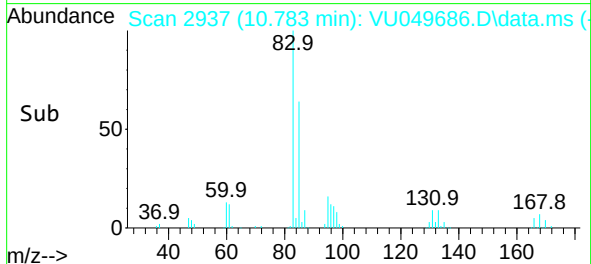
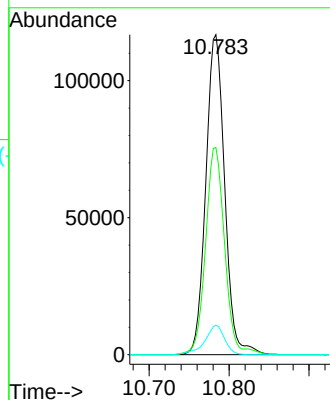
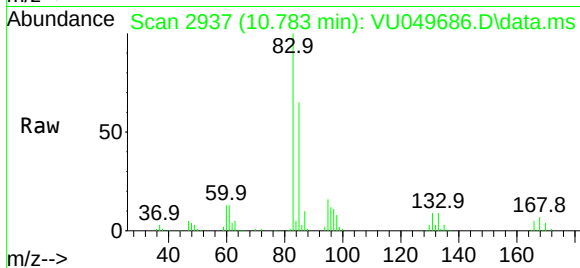
Tgt Ion: 83 Resp: 191718

Ion Ratio Lower Upper

83 100

85 64.8 45.0 83.6

131 9.2 7.0 10.6



#59

Bromoform

Concen: 52.575 ug/L

RT: 10.291 min Scan# 2784

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

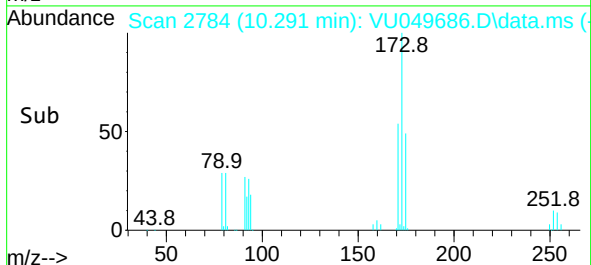
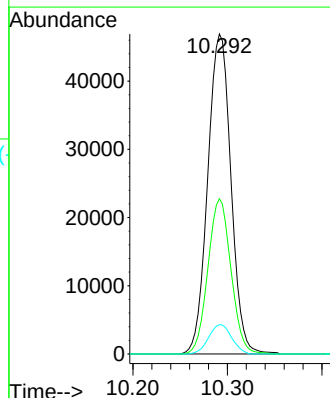
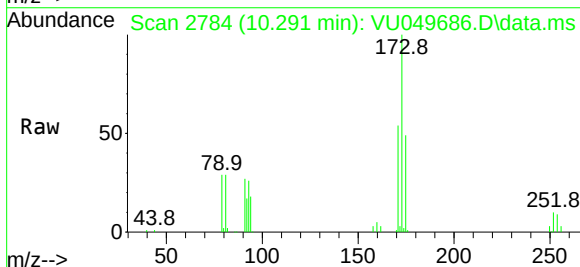
Tgt Ion:173 Resp: 80101

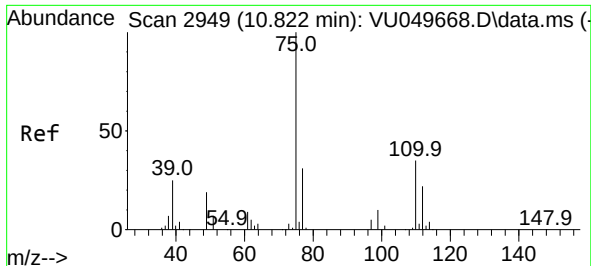
Ion Ratio Lower Upper

173 100

175 48.1 38.6 58.0

254 9.1 7.4 11.0

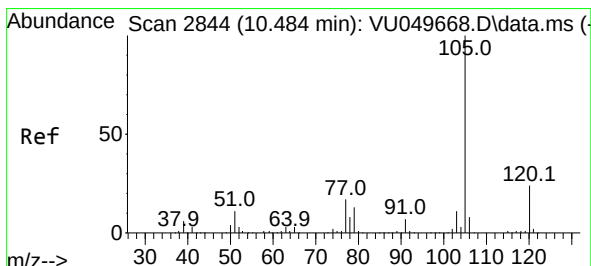
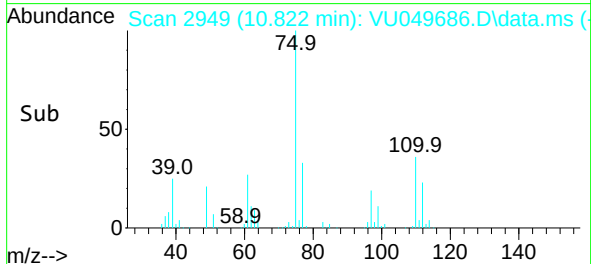
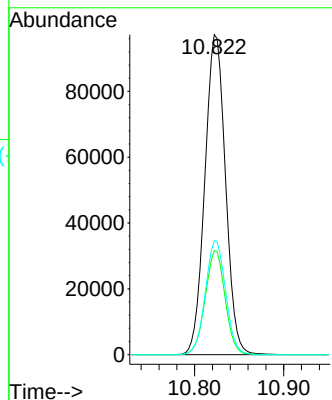
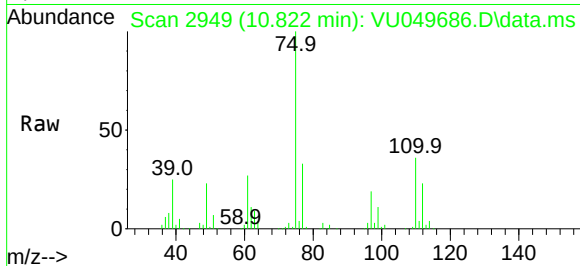




#60  
1,2,3-Trichloropropane  
Concen: 51.713 ug/L  
RT: 10.822 min Scan# 2949  
Delta R.T. 0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

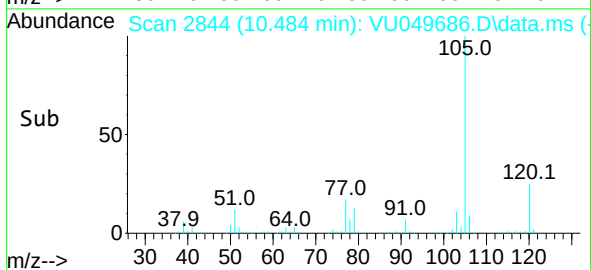
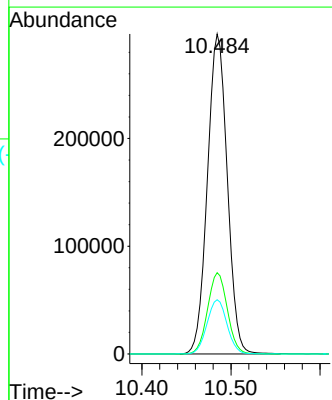
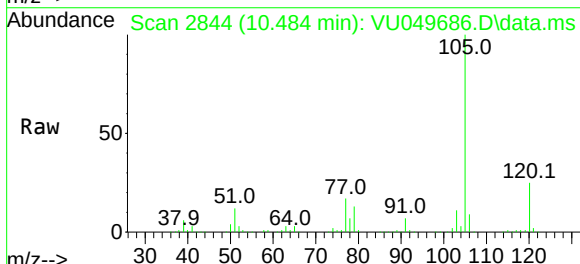
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

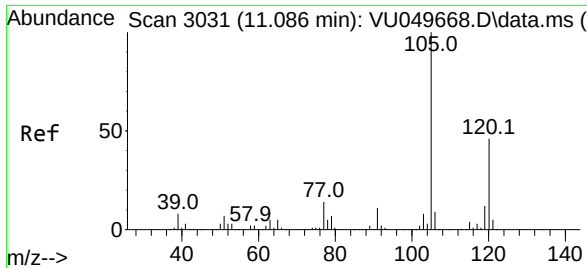
Tgt Ion: 75 Resp: 156464  
Ion Ratio Lower Upper  
75 100  
77 31.4 25.5 38.3  
110 35.0 28.9 43.3



#61  
Isopropylbenzene  
Concen: 54.122 ug/L  
RT: 10.484 min Scan# 2844  
Delta R.T. -0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion: 105 Resp: 459051  
Ion Ratio Lower Upper  
105 100  
120 25.3 19.9 29.9  
77 0.0 13.8 20.8#

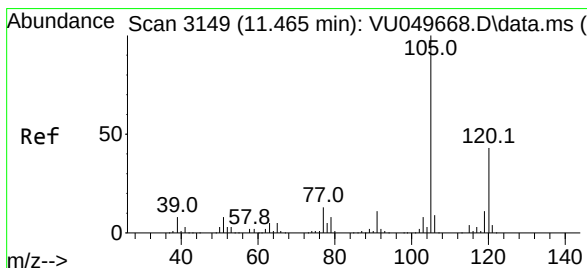
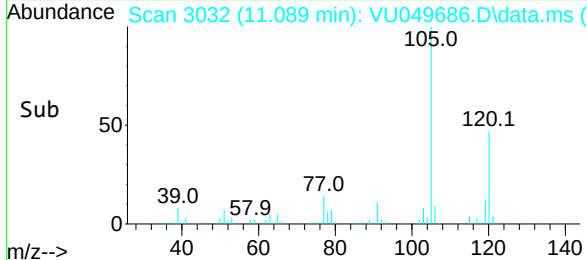
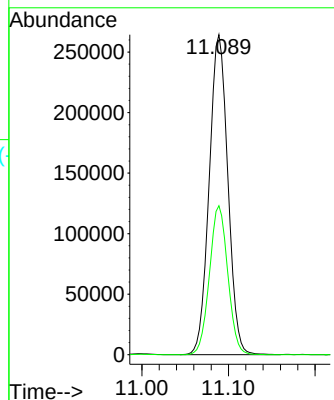
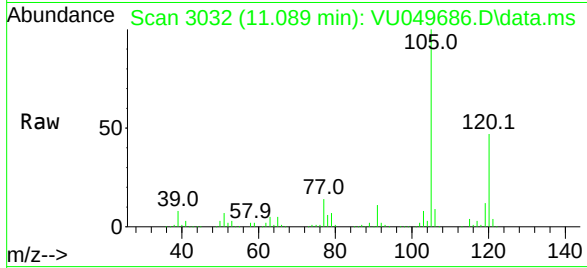




#62  
1,3,5-Trimethylbenzene  
Concen: 55.207 ug/L  
RT: 11.089 min Scan# 3031  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

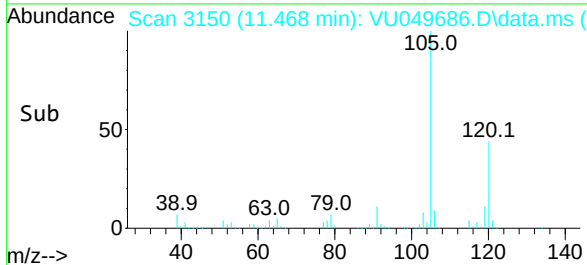
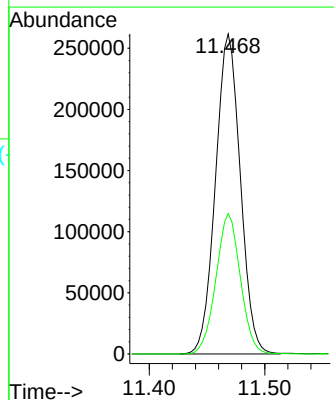
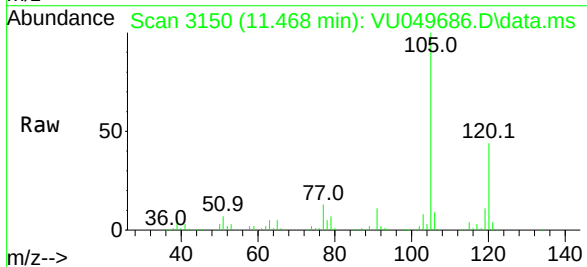
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

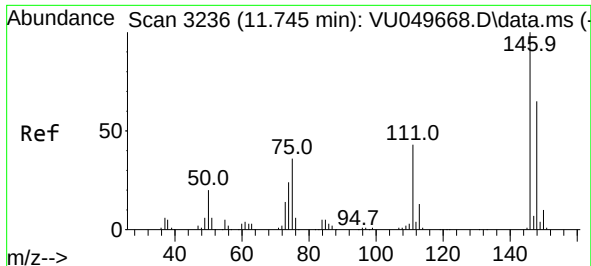
Tgt Ion:105 Resp: 394973  
Ion Ratio Lower Upper  
105 100  
120 45.7 36.8 55.2



#63  
1,2,4-Trimethylbenzene  
Concen: 54.928 ug/L  
RT: 11.468 min Scan# 3150  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion:105 Resp: 390409  
Ion Ratio Lower Upper  
105 100  
120 43.1 33.9 50.9

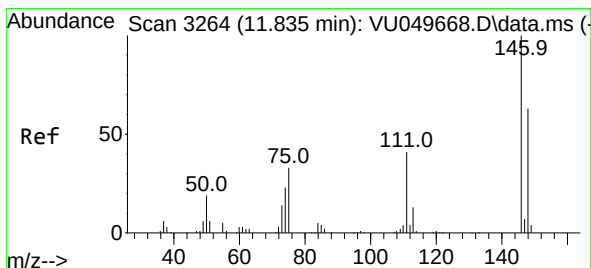
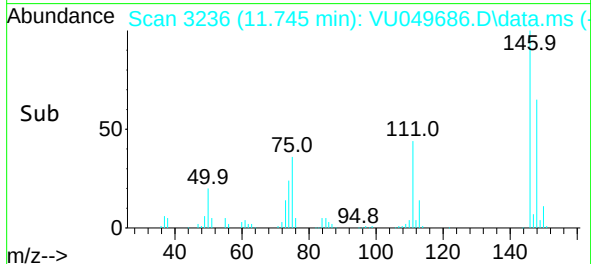
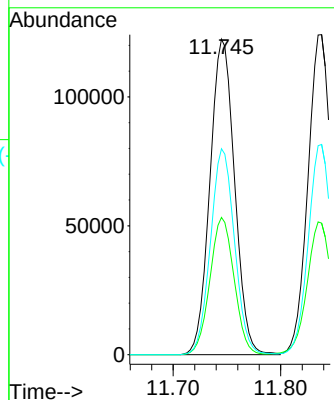
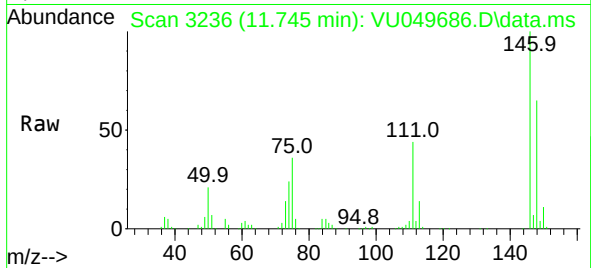




#64  
1,3-Dichlorobenzene  
Concen: 52.706 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

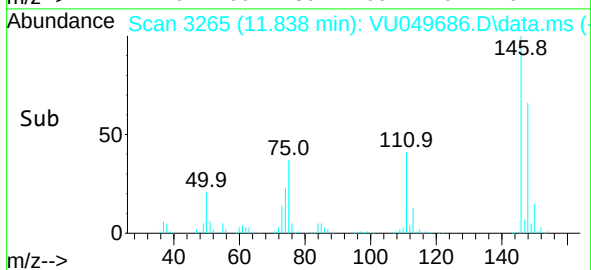
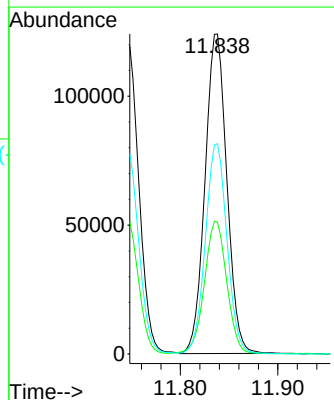
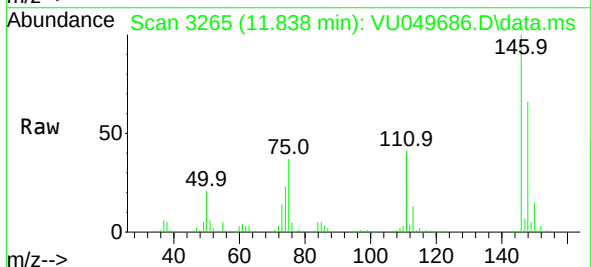
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

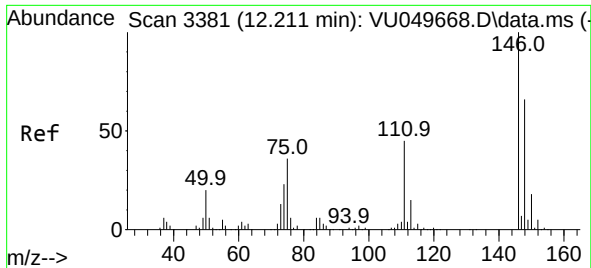
Tgt Ion:146 Resp: 195150  
Ion Ratio Lower Upper  
146 100  
111 43.5 30.0 55.6  
148 65.3 45.1 83.9



#65  
1,4-Dichlorobenzene  
Concen: 51.913 ug/L  
RT: 11.838 min Scan# 3265  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion:146 Resp: 193082  
Ion Ratio Lower Upper  
146 100  
111 41.1 29.1 54.1  
148 65.7 44.4 82.4





#67

1,2-Dichlorobenzene

Concen: 52.485 ug/L

RT: 12.211 min Scan# 311

Delta R.T. -0.000 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050159

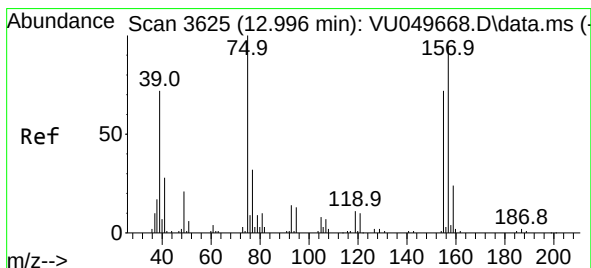
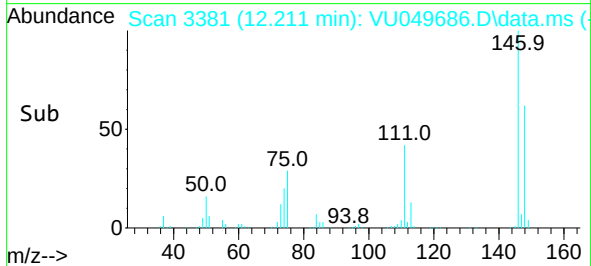
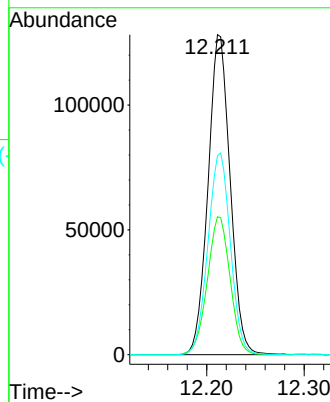
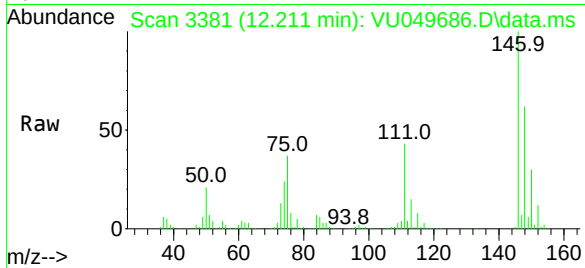
Tgt Ion:146 Resp: 202074

Ion Ratio Lower Upper

146 100

111 43.1 35.8 53.8

148 62.2 52.7 79.1



#68

1,2-Dibromo-3-chloropropane

Concen: 49.218 ug/L

RT: 12.996 min Scan# 3625

Delta R.T. 0.000 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

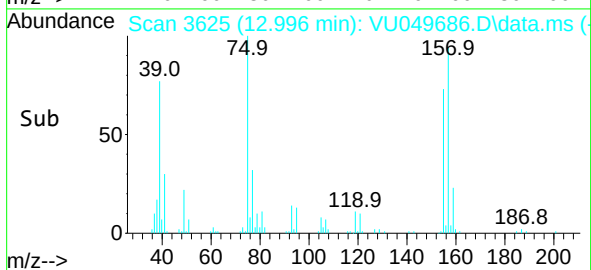
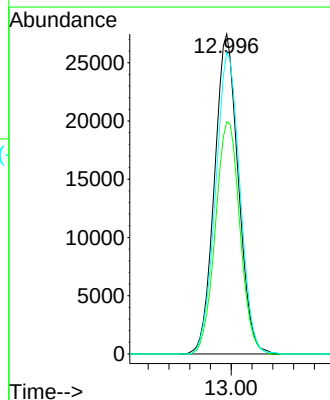
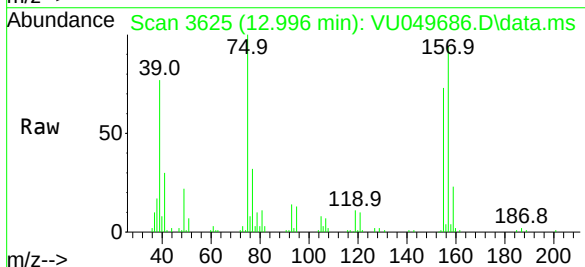
Tgt Ion: 75 Resp: 43634

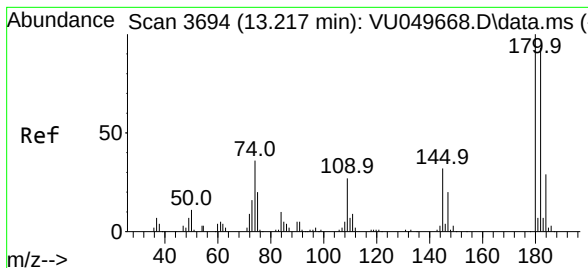
Ion Ratio Lower Upper

75 100

155 72.6 57.7 86.5

157 94.2 75.6 113.4





#69

1,3,5-Trichlorobenzene

Concen: 54.373 ug/L

RT: 13.221 min Scan# 3695

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050159

Tgt Ion:180 Resp: 141070

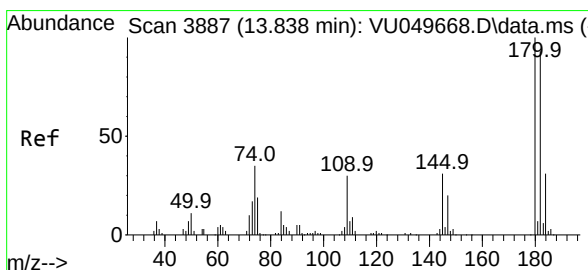
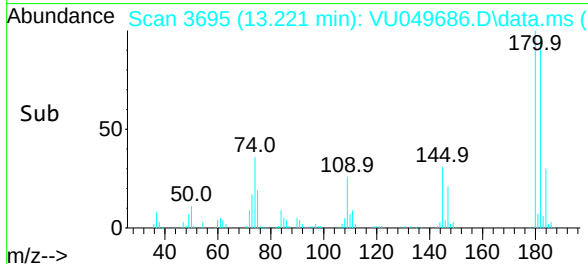
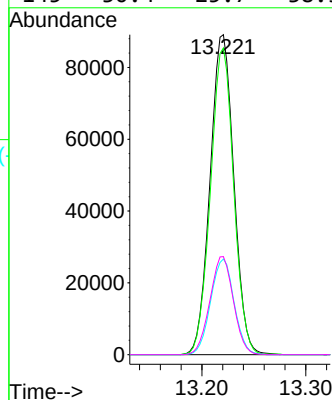
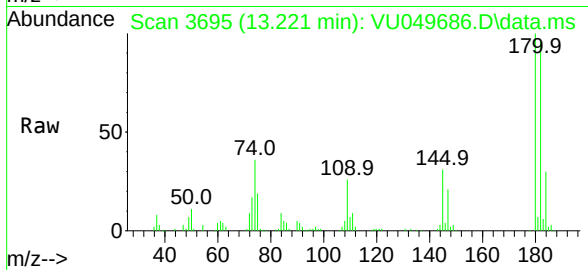
Ion Ratio Lower Upper

180 100

182 93.9 76.0 114.0

184 29.6 24.0 36.0

145 30.4 25.7 38.5



#70

1,2,4-trichlorobenzene

Concen: 52.096 ug/L

RT: 13.841 min Scan# 3888

Delta R.T. 0.003 min

Lab File: VU049686.D

Acq: 12 Jul 2022 10:02

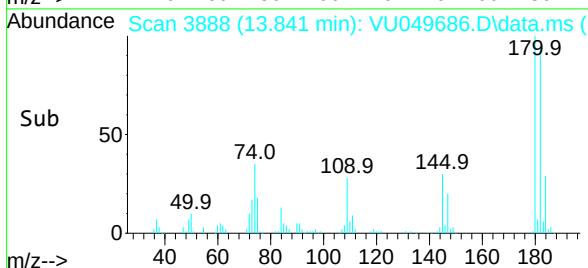
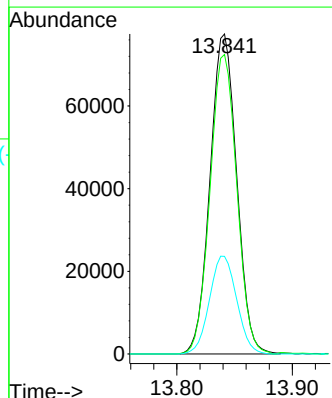
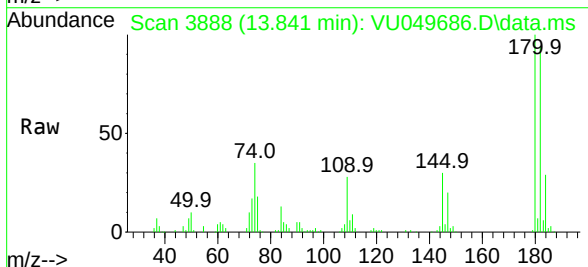
Tgt Ion:180 Resp: 124038

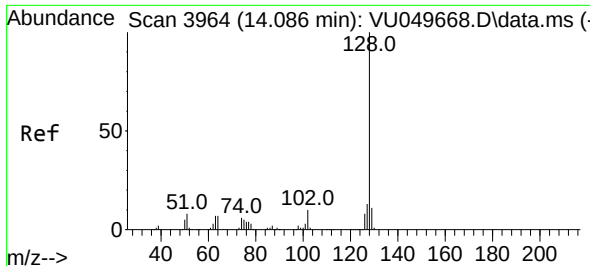
Ion Ratio Lower Upper

180 100

182 94.1 74.8 112.2

145 31.2 24.7 37.1

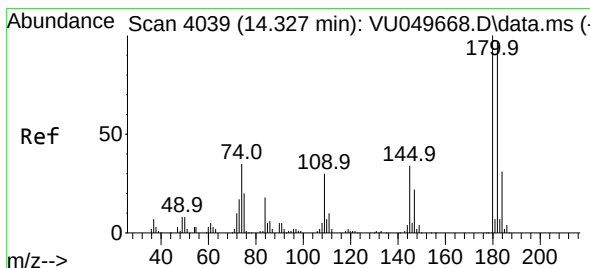
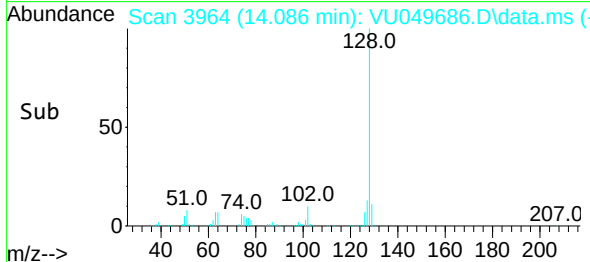
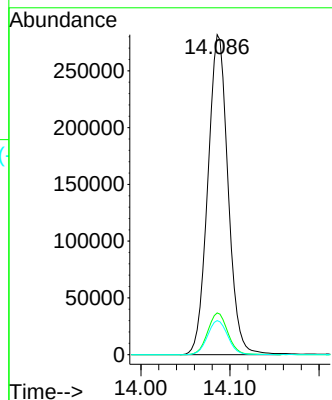
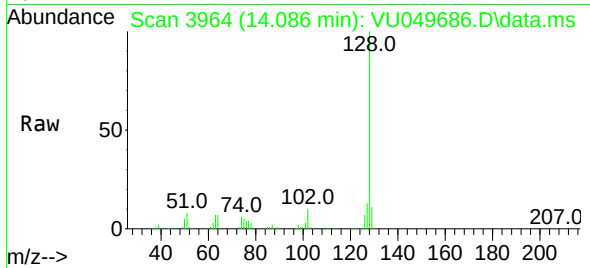




#71  
Naphthalene  
Concen: 52.150 ug/L  
RT: 14.086 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050159

Tgt Ion:128 Resp: 443873  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.2 15.4  
129 10.7 8.8 13.2



#72  
1,2,3-Trichlorobenzene  
Concen: 52.632 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.003 min  
Lab File: VU049686.D  
Acq: 12 Jul 2022 10:02

Tgt Ion:180 Resp: 129806  
Ion Ratio Lower Upper  
180 100  
182 96.6 76.6 115.0  
145 34.0 27.1 40.7

