

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121421\  
 Data File : VU046346.D  
 Acq On : 14 Dec 2021 11:22  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050141

Quant Time: Dec 15 01:21:29 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 14 03:19:41 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 152685   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 157878   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.815  | 152   | 89581    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.604   | 65    | 59323    | 47.166   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 94.340%  |
| 7) Chloroethane-d5            | 1.922   | 69    | 45062    | 46.663   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 93.320%  |
| 11) 1,1-Dichloroethene-d2     | 2.578   | 63    | 101548   | 44.975   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 89.960%  |
| 21) 2-Butanone-d5             | 4.642   | 46    | 83574    | 83.587   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 83.590%  |
| 24) Chloroform-d              | 5.070   | 84    | 108821   | 51.811   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 103.620% |
| 26) 1,2-Dichloroethane-d4     | 5.706   | 65    | 68890    | 48.873   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.740%  |
| 32) Benzene-d6                | 5.735   | 84    | 204861   | 45.273   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.540%  |
| 36) 1,2-Dichloropropane-d6    | 6.697   | 67    | 63625    | 45.369   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 90.740%  |
| 41) Toluene-d8                | 7.902   | 98    | 186460   | 45.257   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 90.520%  |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 31711    | 46.842   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.680%  |
| 47) 2-Hexanone-d5             | 8.635   | 63    | 63067    | 94.848   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 94.850%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 100815   | 47.402   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 94.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 71879    | 41.665   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 83.320%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.388   | 85    | 66210    | 39.857   | ug/L   | 99       |
| 3) Chloromethane              | 1.526   | 50    | 60292    | 40.578   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.610   | 62    | 63450    | 42.352   | ug/L   | 100      |
| 6) Bromomethane               | 1.864   | 94    | 37477    | 44.135   | ug/L   | 96       |
| 8) Chloroethane               | 1.941   | 64    | 39791    | 45.872   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 2.147   | 101   | 96568    | 49.372   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.587   | 101   | 55256    | 49.736   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.587   | 96    | 48070    | 45.533   | ug/L   | 96       |
| 13) Acetone                   | 2.665   | 43    | 92476    | 74.005   | ug/L   | 96       |
| 14) Carbon disulfide          | 2.803   | 76    | 116637   | 35.610   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.960   | 43    | 63946    | 43.898   | ug/L   | 98       |
| 16) Methylene chloride        | 3.054   | 84    | 59821    | 47.626   | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 3.362   | 96    | 50454    | 45.159   | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 3.369   | 73    | 166391   | 48.325   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.877   | 63    | 105413   | 51.892   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.674   | 96    | 58659    | 48.388   | ug/L   | 98       |
| 22) 2-Butanone                | 4.726   | 43    | 113499   | 83.437   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.983   | 128   | 31465    | 51.391   | ug/L   | 95       |
| 25) Chloroform                | 5.095   | 83    | 114766   | 50.849   | ug/L   | 99       |

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 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

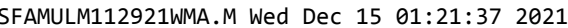
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050141

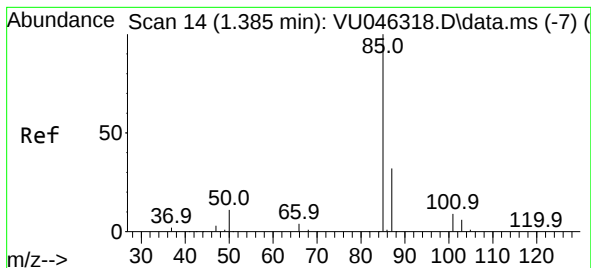
Quant Time: Dec 15 01:21:29 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 14 03:19:41 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.800  | 62   | 88627    | 52.917 | ug/L  | 98       |
| 29) Cyclohexane               | 5.398  | 56   | 73364    | 39.907 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 5.324  | 97   | 95703    | 49.383 | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.529  | 117  | 84090    | 51.111 | ug/L  | 97       |
| 33) Benzene                   | 5.780  | 78   | 232273   | 48.609 | ug/L  | 100      |
| 34) Trichloroethene           | 6.546  | 95   | 58443    | 46.427 | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.767  | 83   | 78878    | 40.412 | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.796  | 63   | 62945    | 50.287 | ug/L  | 98       |
| 38) Bromodichloromethane      | 7.108  | 83   | 90399    | 54.335 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.613  | 75   | 93914    | 49.318 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.796  | 43   | 175234   | 95.283 | ug/L  | 100      |
| 42) Toluene                   | 7.973  | 91   | 250314   | 48.820 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 93767    | 50.135 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 8.404  | 97   | 64876    | 51.661 | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.558  | 164  | 43846    | 47.397 | ug/L  | 96       |
| 48) 2-Hexanone                | 8.690  | 43   | 151166   | 91.909 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.812  | 129  | 73581    | 55.797 | ug/L  | 96       |
| 50) 1,2-Dibromoethane         | 8.928  | 107  | 65996    | 48.473 | ug/L  | 99       |
| 51) Chlorobenzene             | 9.449  | 112  | 159550   | 48.099 | ug/L  | 99       |
| 52) Ethylbenzene              | 9.574  | 91   | 270129   | 48.953 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.697  | 106  | 106463   | 49.472 | ug/L  | 98       |
| 54) o-xylene                  | 10.102 | 106  | 103385   | 49.511 | ug/L  | 97       |
| 55) Styrene                   | 10.118 | 104  | 186782   | 52.393 | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.787 | 83   | 112623   | 52.310 | ug/L  | 99       |
| 59) Bromoform                 | 10.295 | 173  | 54348    | 51.716 | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.825 | 75   | 92228    | 46.967 | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.488 | 105  | 272100   | 46.684 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 231445   | 47.641 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.471 | 105  | 239955   | 49.368 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 131282   | 47.418 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 135379   | 47.313 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 131173   | 47.048 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 27888    | 53.310 | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 13.220 | 180  | 97850    | 48.505 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 88226    | 49.284 | ug/L  | 99       |
| 71) Naphthalene               | 14.089 | 128  | 332273   | 53.339 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 93498    | 51.218 | ug/L  | 98       |

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

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 39.857 ug/L

RT: 1.388 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

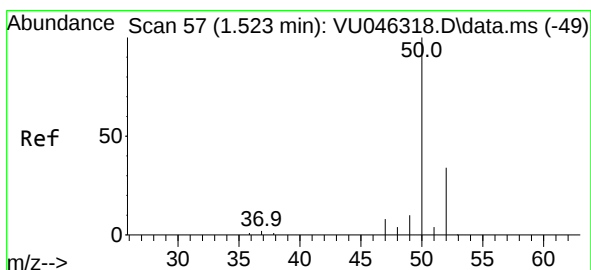
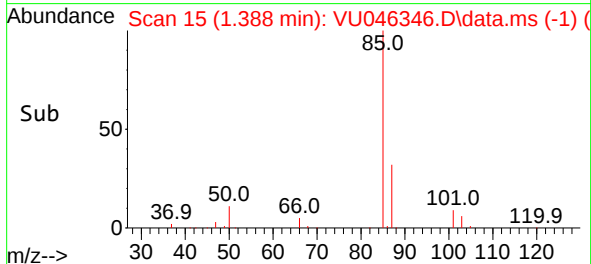
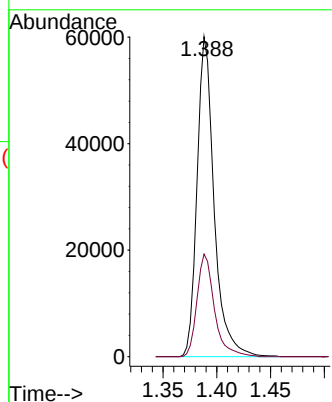
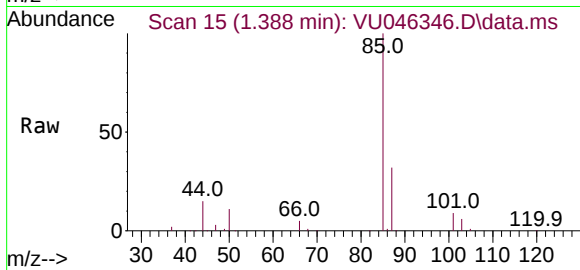
VSTD050141

Tgt Ion: 85 Resp: 66210

Ion Ratio Lower Upper

85 100

87 32.8 25.7 38.5



#3

Chloromethane

Concen: 40.578 ug/L

RT: 1.526 min Scan# 58

Delta R.T. 0.003 min

Lab File: VU046346.D

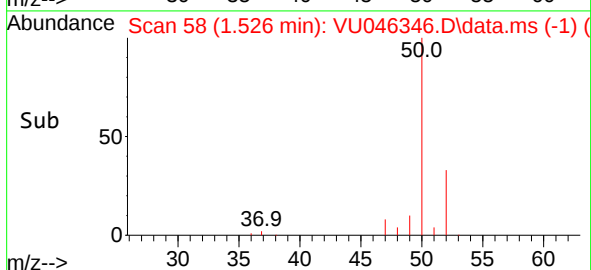
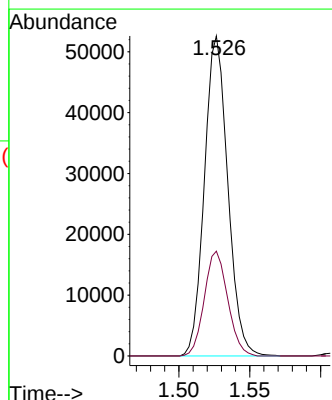
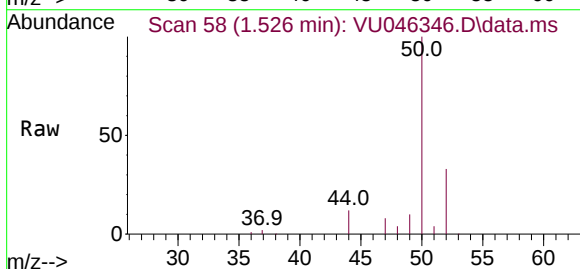
Acq: 14 Dec 2021 11:22

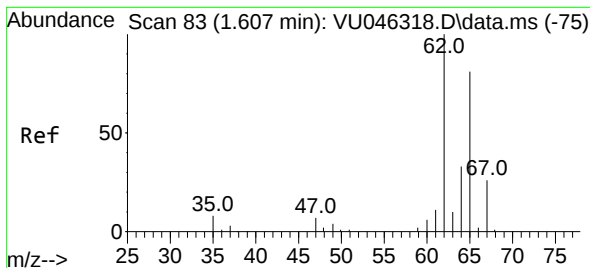
Tgt Ion: 50 Resp: 60292

Ion Ratio Lower Upper

50 100

52 32.8 23.2 43.2





#5

Vinyl chloride

Concen: 42.352 ug/L

RT: 1.610 min Scan# 84

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

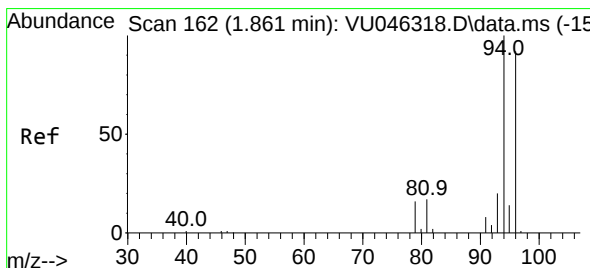
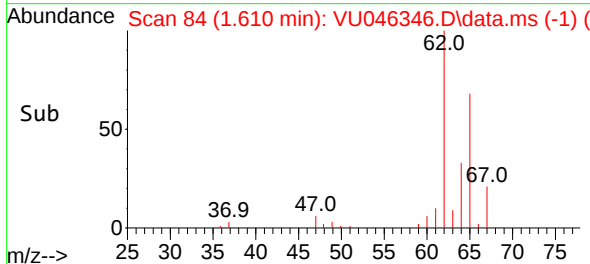
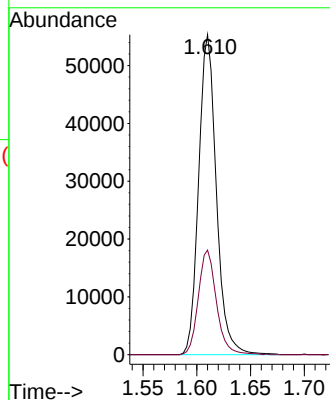
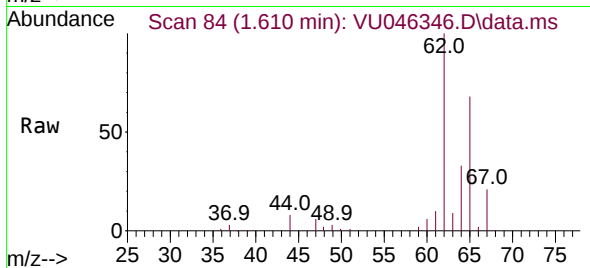
VSTD050141

Tgt Ion: 62 Resp: 63450

Ion Ratio Lower Upper

62 100

64 32.7 22.9 42.5



#6

Bromomethane

Concen: 44.135 ug/L

RT: 1.864 min Scan# 163

Delta R.T. 0.003 min

Lab File: VU046346.D

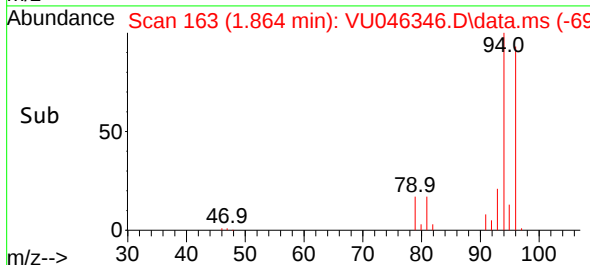
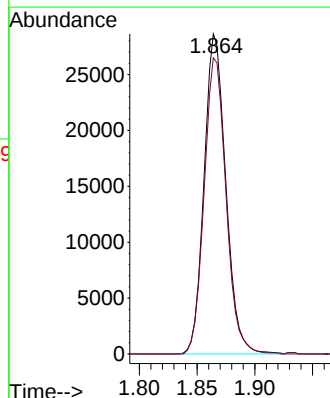
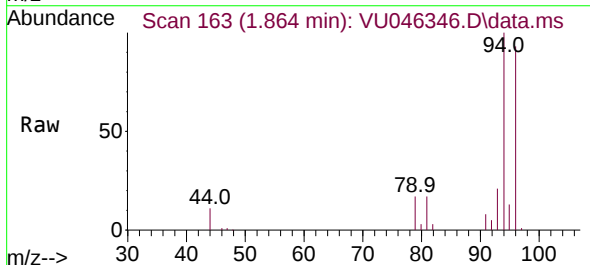
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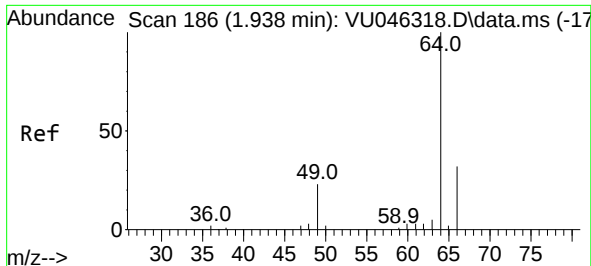
Tgt Ion: 94 Resp: 37477

Ion Ratio Lower Upper

94 100

96 92.5 67.4 125.2

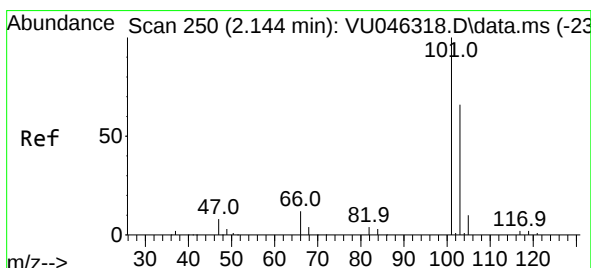
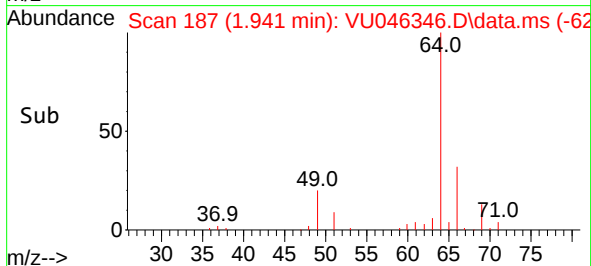
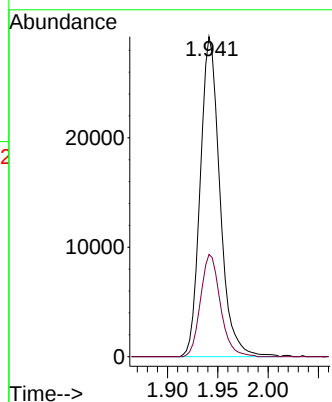
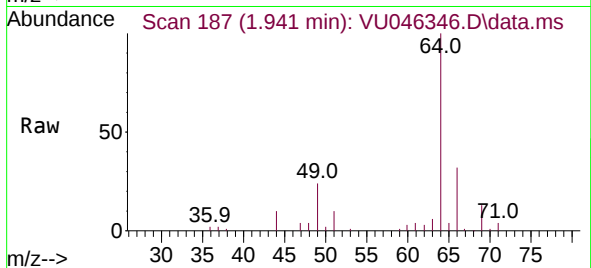




#8  
Chloroethane  
Concen: 45.872 ug/L  
RT: 1.941 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

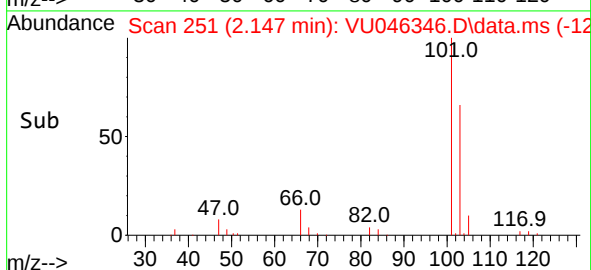
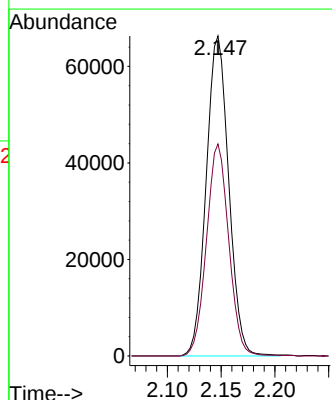
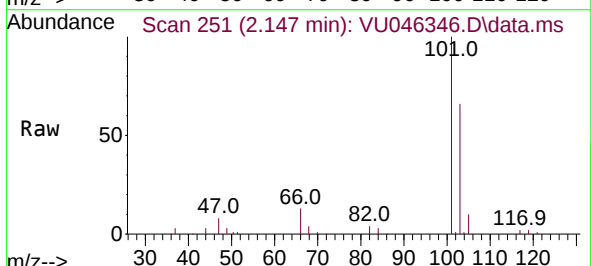
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

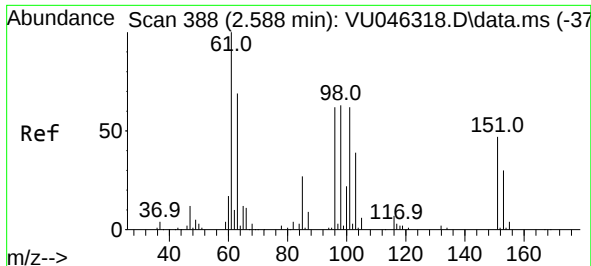
Tgt Ion: 64 Resp: 39791  
Ion Ratio Lower Upper  
64 100  
66 31.9 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 49.372 ug/L  
RT: 2.147 min Scan# 251  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion:101 Resp: 96568  
Ion Ratio Lower Upper  
101 100  
103 65.4 51.8 77.6

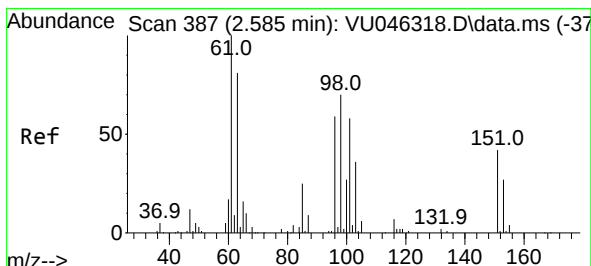
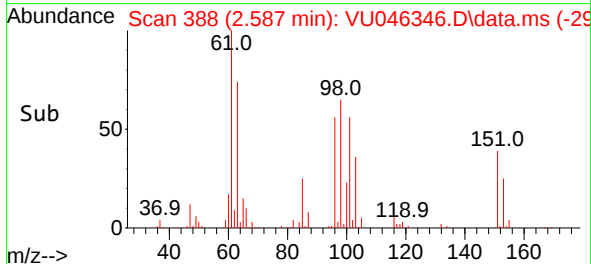
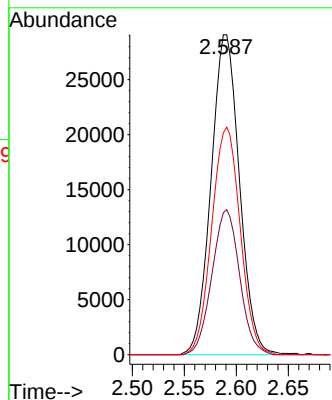
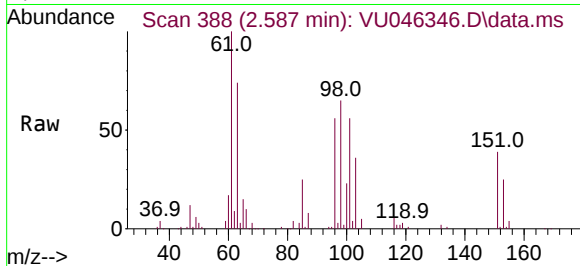




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 49.736 ug/L  
 RT: 2.587 min Scan# 388  
 Delta R.T. -0.000 min  
 Lab File: VU046346.D  
 Acq: 14 Dec 2021 11:22

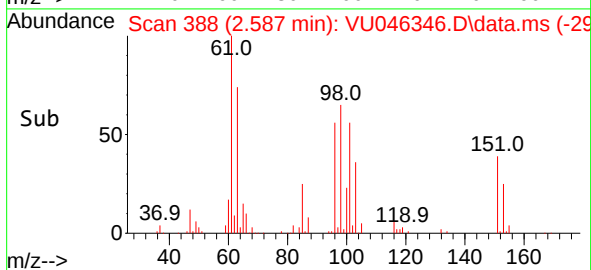
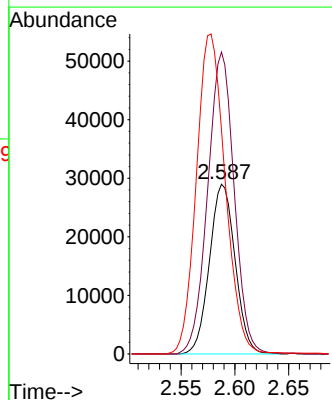
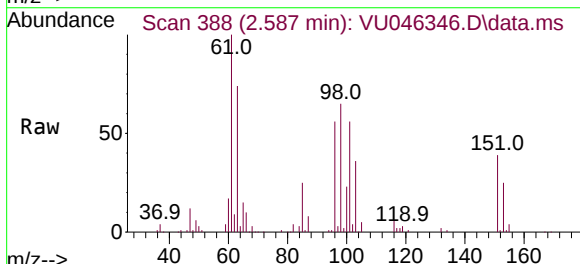
Instrument :  
 MSVOA\_U  
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 VSTD050141

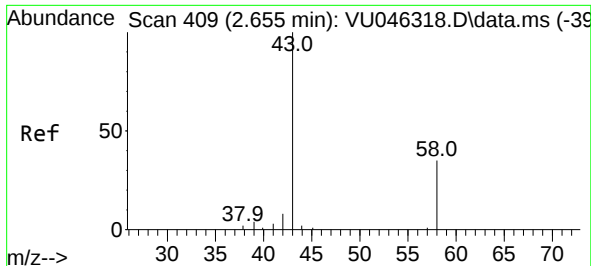
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 Ion Ratio Lower Upper  
 101 100  
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 151 71.5 56.7 85.1



#12  
 1,1-Dichloroethene  
 Concen: 45.533 ug/L  
 RT: 2.587 min Scan# 388  
 Delta R.T. 0.003 min  
 Lab File: VU046346.D  
 Acq: 14 Dec 2021 11:22

Tgt Ion: 96 Resp: 48070  
 Ion Ratio Lower Upper  
 96 100  
 61 177.8 118.6 220.2  
 63 132.1 93.0 172.8





#13

Acetone

Concen: 74.005 ug/L

RT: 2.665 min Scan# 412

Delta R.T. 0.010 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

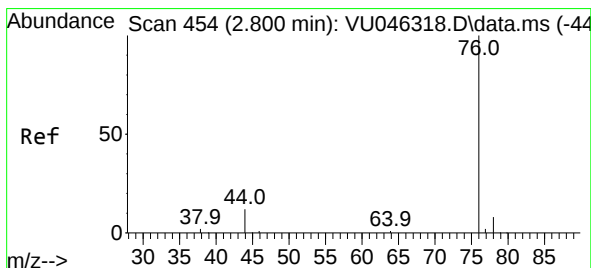
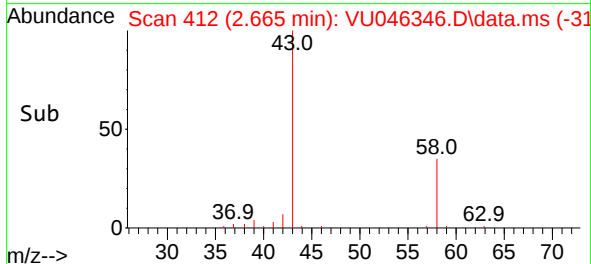
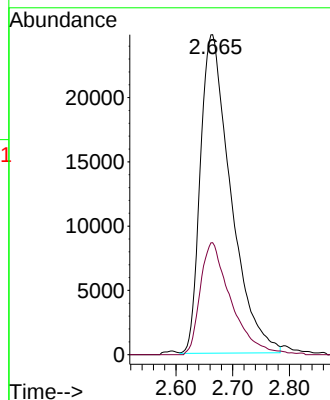
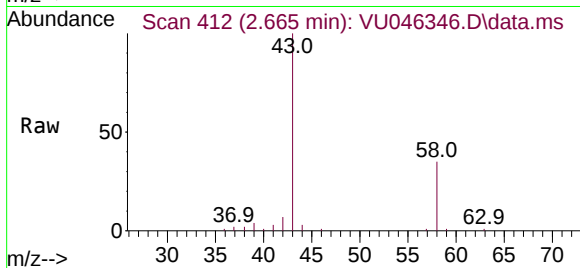
VSTD050141

Tgt Ion: 43 Resp: 92476

Ion Ratio Lower Upper

43 100

58 35.5 0.0 66.8



#14

Carbon disulfide

Concen: 35.610 ug/L

RT: 2.803 min Scan# 455

Delta R.T. 0.003 min

Lab File: VU046346.D

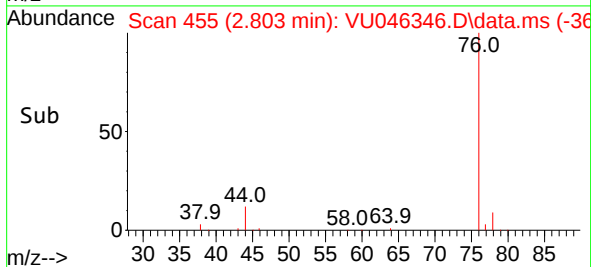
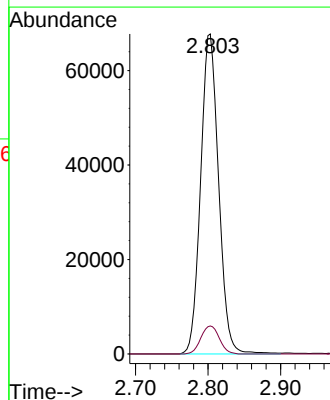
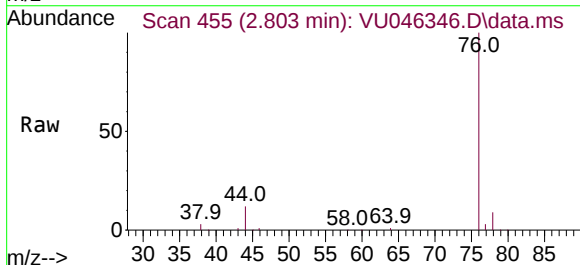
Acq: 14 Dec 2021 11:22

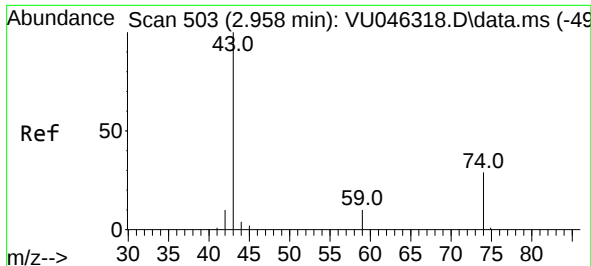
Tgt Ion: 76 Resp: 116637

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9

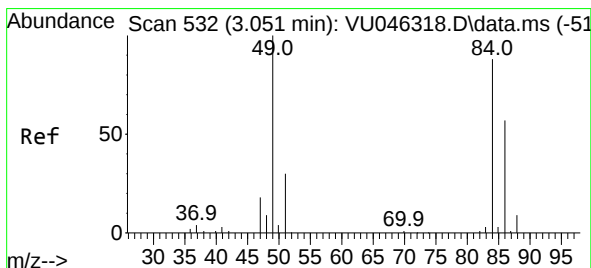
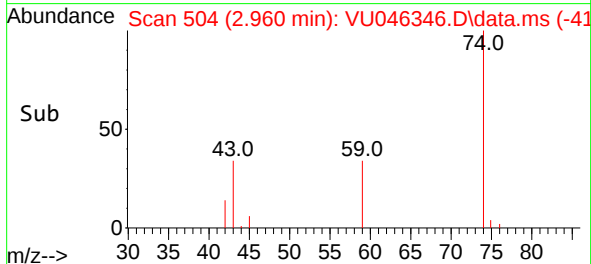
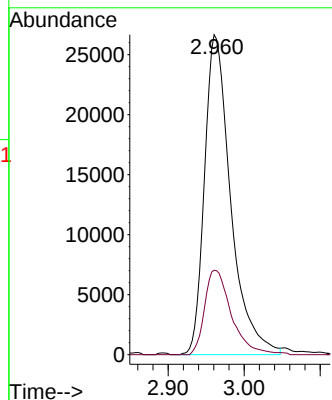
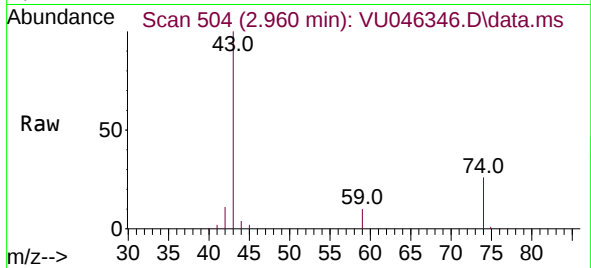




#15  
Methyl Acetate  
Concen: 43.898 ug/L  
RT: 2.960 min Scan# 503  
Delta R.T. 0.002 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

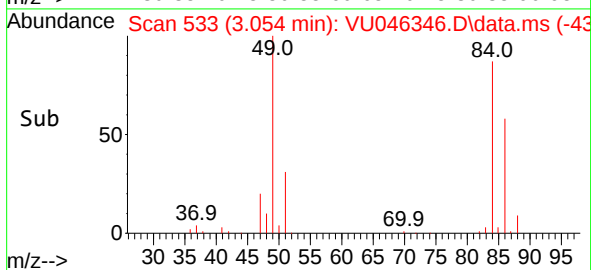
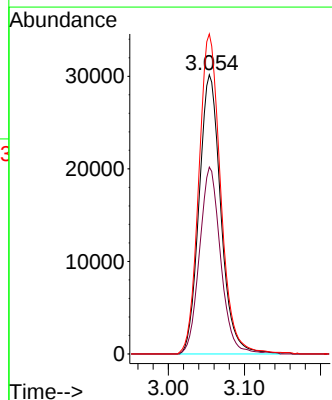
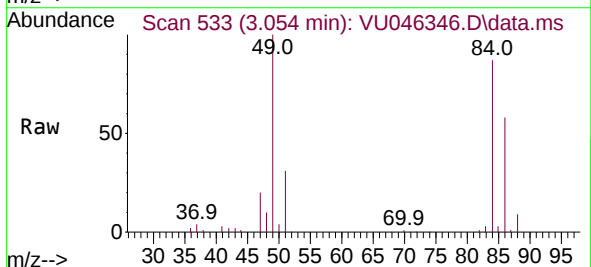
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

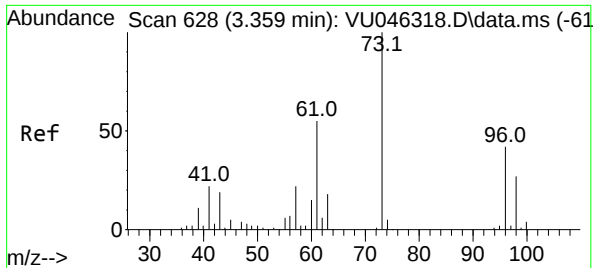
Tgt Ion: 43 Resp: 63946  
Ion Ratio Lower Upper  
43 100  
74 27.1 20.8 31.2



#16  
Methylene chloride  
Concen: 47.626 ug/L  
RT: 3.054 min Scan# 533  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion: 84 Resp: 59821  
Ion Ratio Lower Upper  
84 100  
86 66.9 44.7 83.1  
49 114.6 78.4 145.6

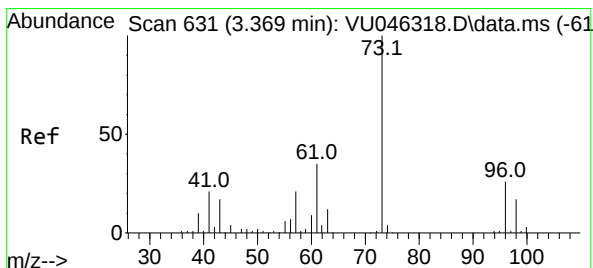
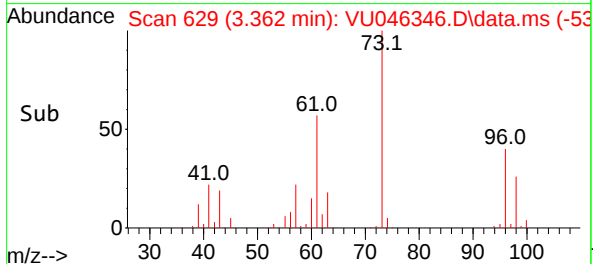
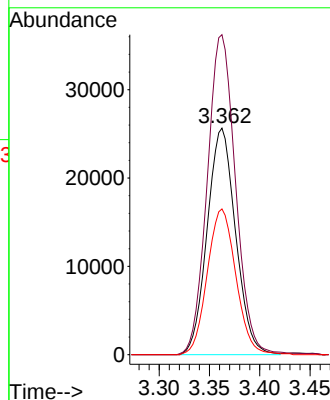
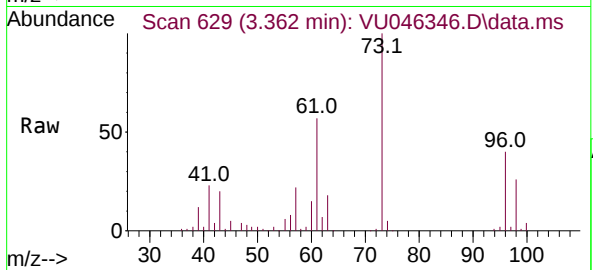




#17  
trans-1,2-Dichloroethene  
Concen: 45.159 ug/L  
RT: 3.362 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

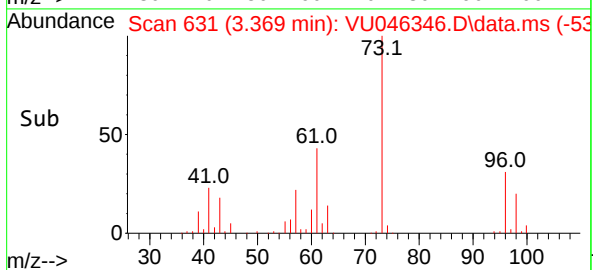
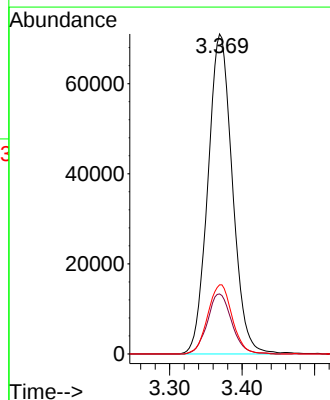
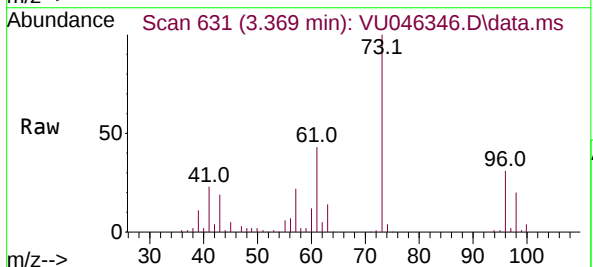
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

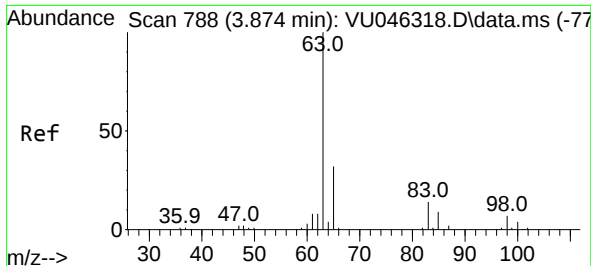
Tgt Ion: 96 Resp: 50454  
Ion Ratio Lower Upper  
96 100  
61 141.3 94.6 175.6  
98 64.3 44.0 81.8



#18  
Methyl tert-butyl Ether  
Concen: 48.325 ug/L  
RT: 3.369 min Scan# 631  
Delta R.T. -0.000 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion: 73 Resp: 166391  
Ion Ratio Lower Upper  
73 100  
43 18.7 14.0 21.0  
57 21.6 17.0 25.4





#19

1,1-Dichloroethane

Concen: 51.892 ug/L

RT: 3.877 min Scan# 7

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050141

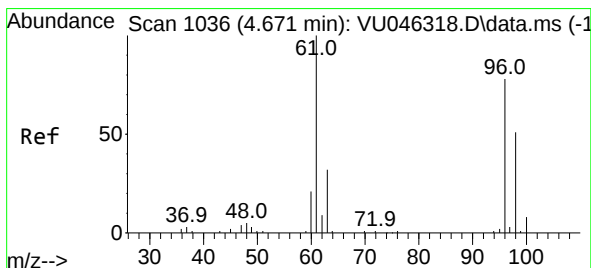
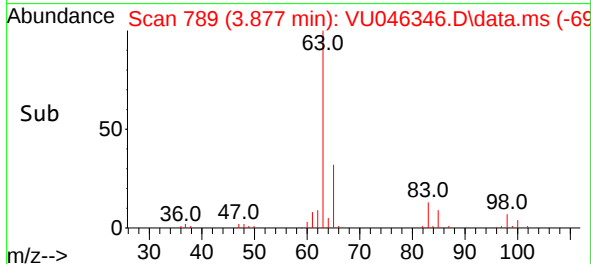
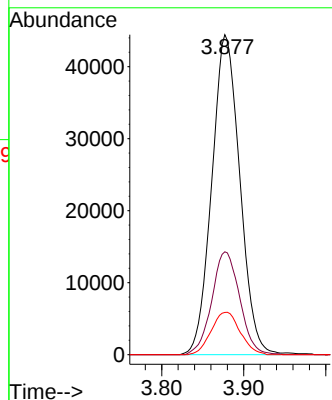
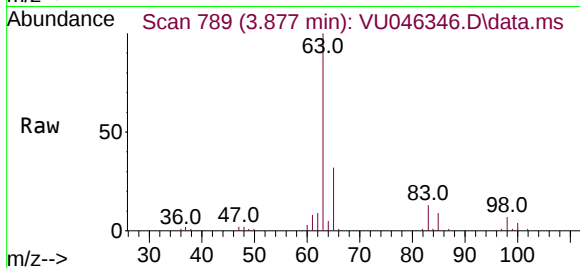
Tgt Ion: 63 Resp: 105413

Ion Ratio Lower Upper

63 100

65 32.1 22.8 42.4

83 13.2 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 48.388 ug/L

RT: 4.674 min Scan# 1037

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

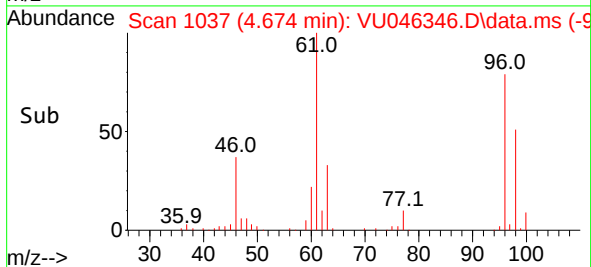
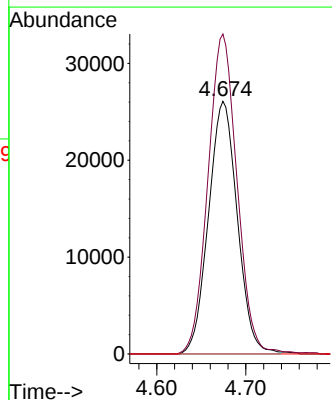
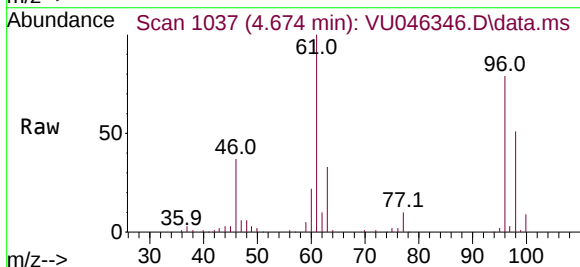
Tgt Ion: 96 Resp: 58659

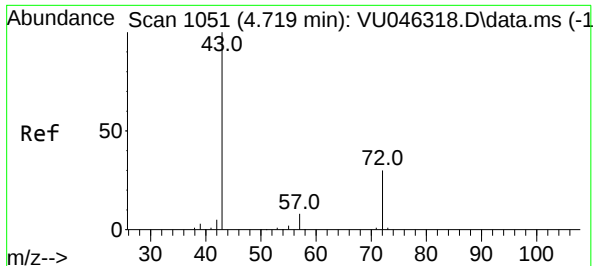
Ion Ratio Lower Upper

96 100

61 126.6 86.8 161.2

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 83.437 ug/L

RT: 4.726 min Scan# 11053

Delta R.T. 0.007 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

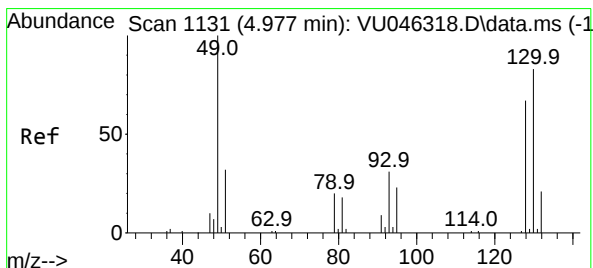
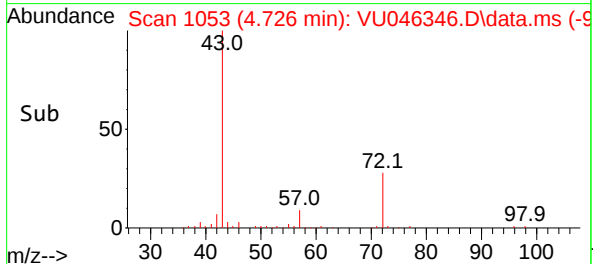
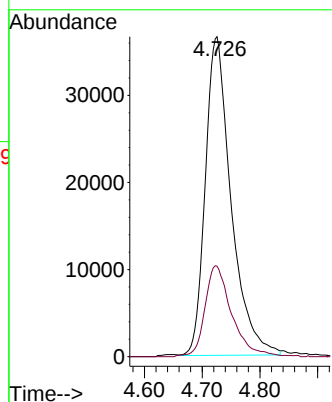
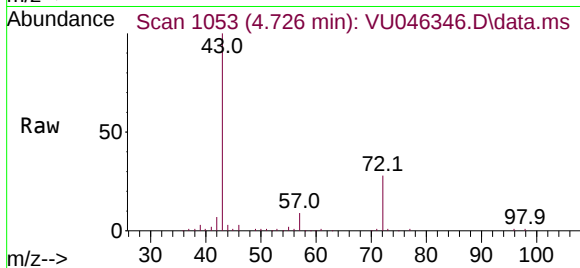
VSTD050141

Tgt Ion: 43 Resp: 113499

Ion Ratio Lower Upper

43 100

72 29.5 14.5 43.6



#23

Bromochloromethane

Concen: 51.391 ug/L

RT: 4.983 min Scan# 1133

Delta R.T. 0.006 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Tgt Ion: 128 Resp: 31465

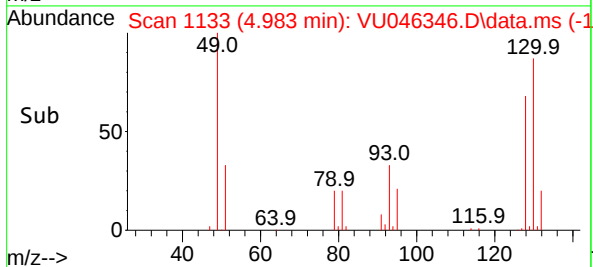
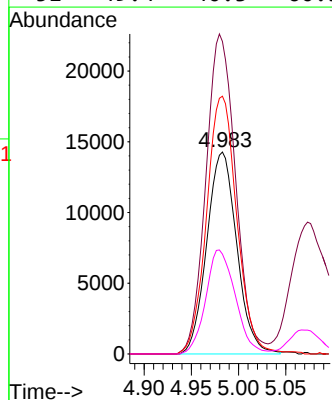
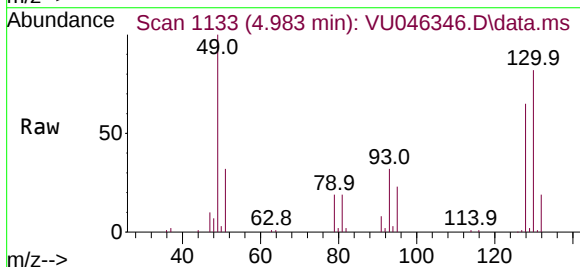
Ion Ratio Lower Upper

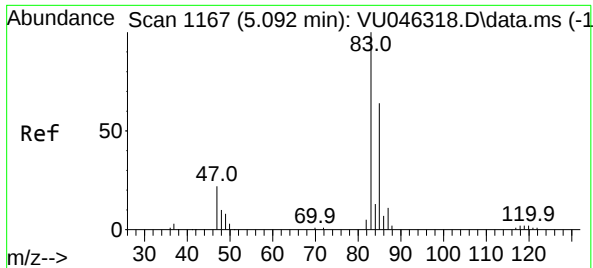
128 100

49 154.8 115.9 215.3

130 127.7 91.8 170.4

51 49.4 40.3 60.5





#25

Chloroform

Concen: 50.849 ug/L

RT: 5.095 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

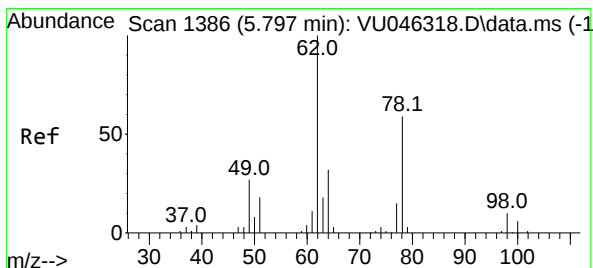
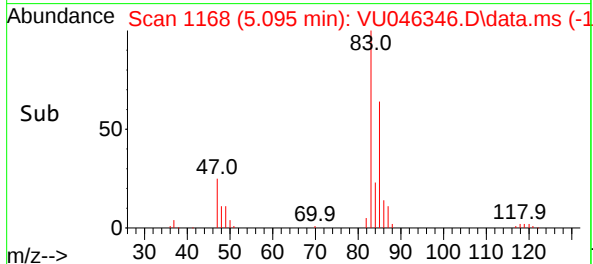
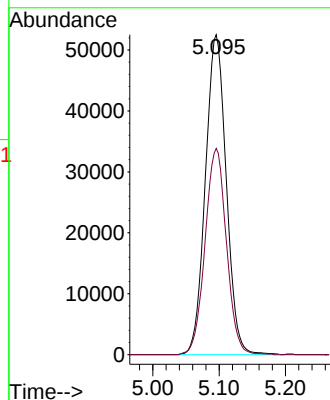
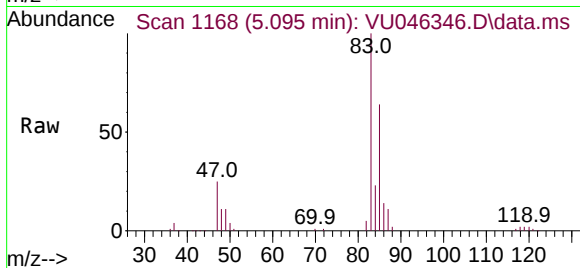
VSTD050141

Tgt Ion: 83 Resp: 114766

Ion Ratio Lower Upper

83 100

85 64.4 45.8 85.2



#27

1,2-Dichloroethane

Concen: 52.917 ug/L

RT: 5.800 min Scan# 1387

Delta R.T. 0.003 min

Lab File: VU046346.D

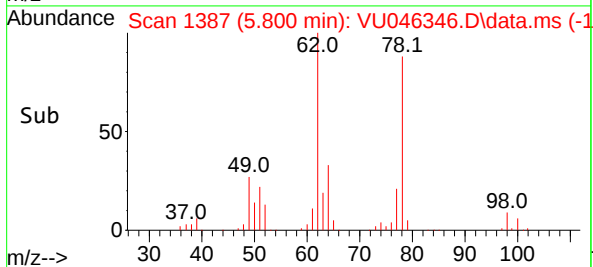
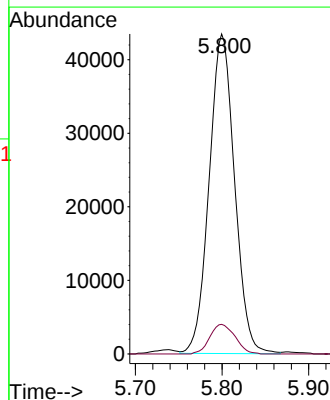
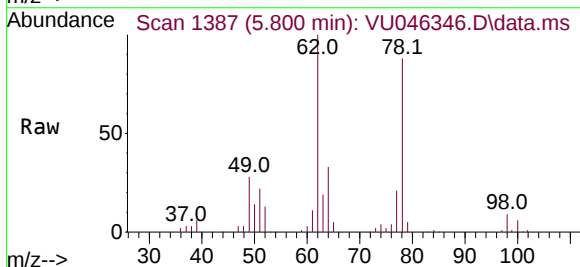
Acq: 14 Dec 2021 11:22

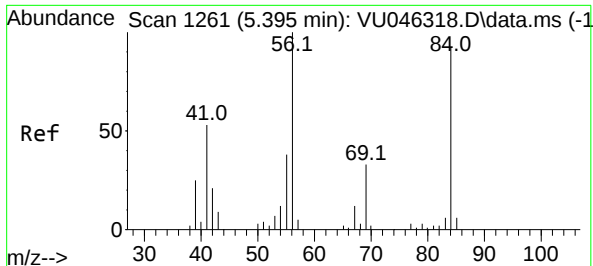
Tgt Ion: 62 Resp: 88627

Ion Ratio Lower Upper

62 100

98 9.2 7.9 11.9





#29

Cyclohexane

Concen: 39.907 ug/L

RT: 5.398 min Scan# 1261

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050141

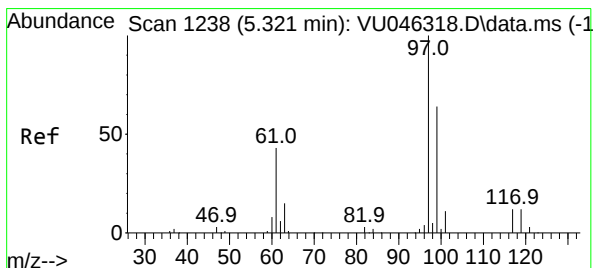
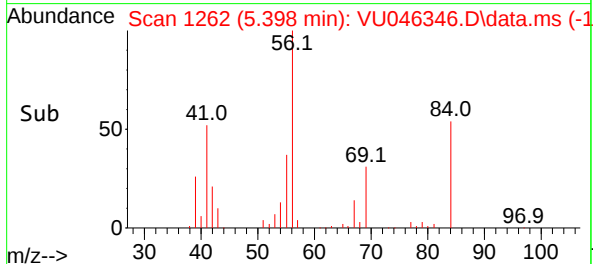
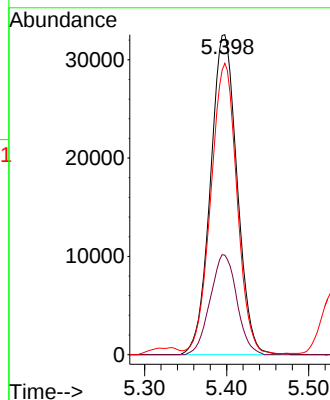
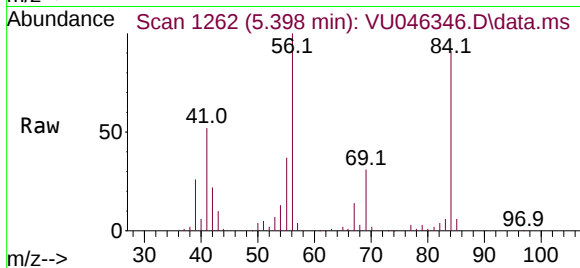
Tgt Ion: 56 Resp: 73364

Ion Ratio Lower Upper

56 100

69 31.2 25.2 37.8

84 89.0 73.3 109.9



#30

1,1,1-Trichloroethane

Concen: 49.383 ug/L

RT: 5.324 min Scan# 1239

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

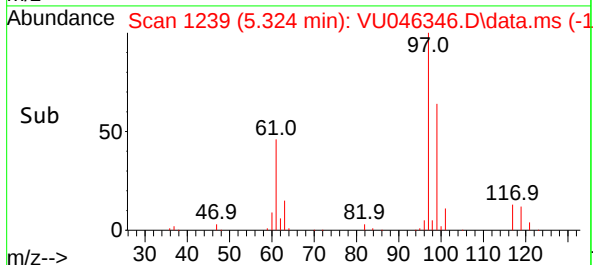
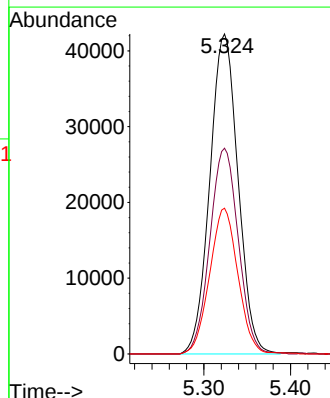
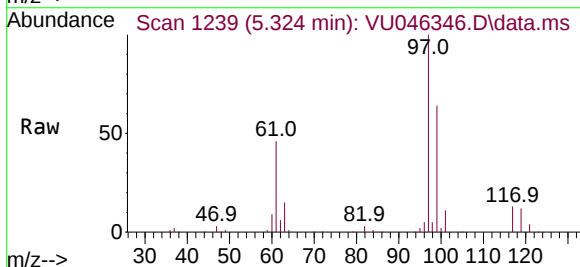
Tgt Ion: 97 Resp: 95703

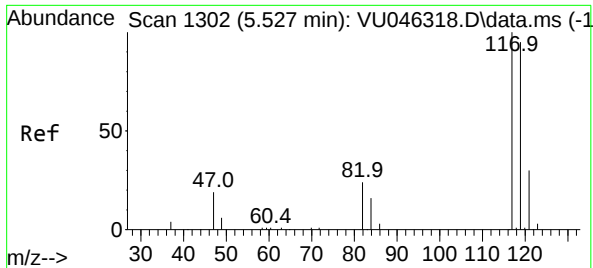
Ion Ratio Lower Upper

97 100

99 64.9 51.8 77.6

61 45.7 34.4 51.6

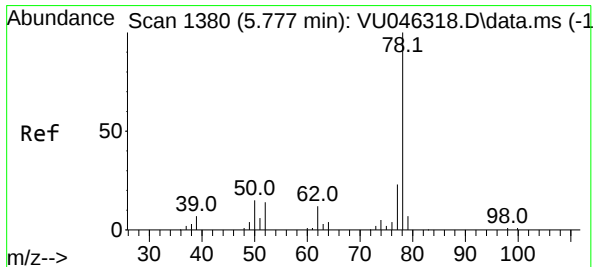
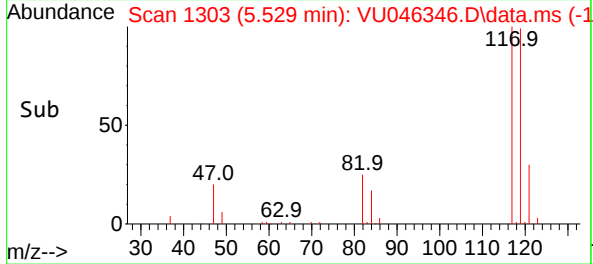
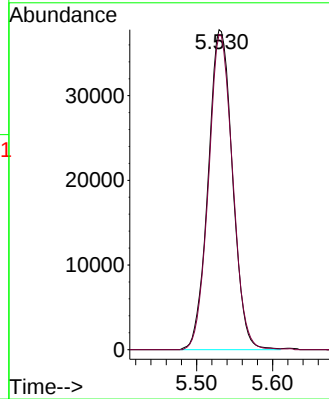
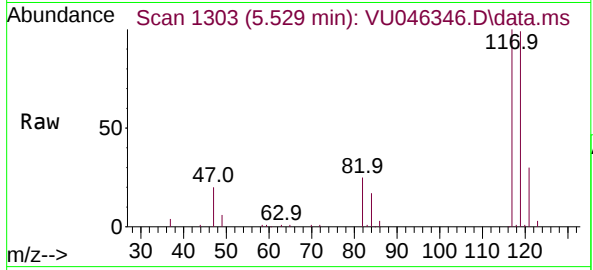




#31  
Carbon tetrachloride  
Concen: 51.111 ug/L  
RT: 5.529 min Scan# 111  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

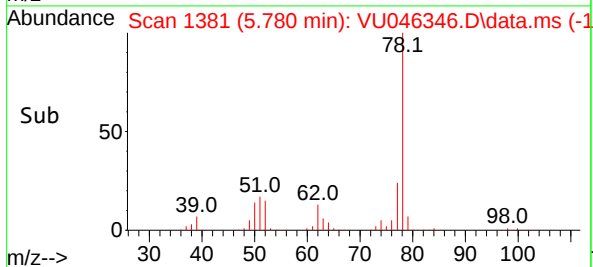
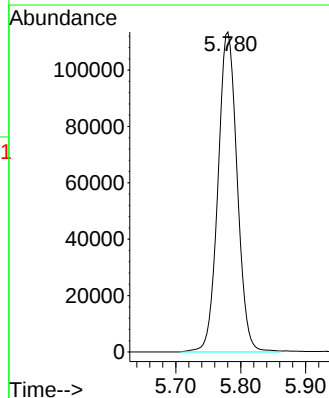
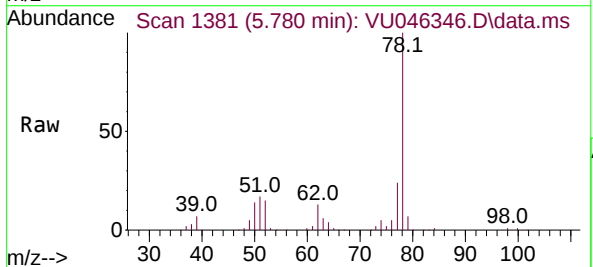
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

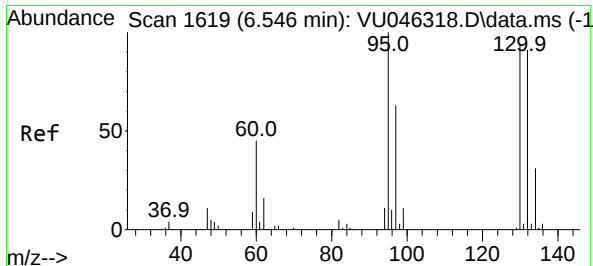
Tgt Ion:117 Resp: 84090  
Ion Ratio Lower Upper  
117 100  
119 97.5 75.7 113.5



#33  
Benzene  
Concen: 48.609 ug/L  
RT: 5.780 min Scan# 1381  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion: 78 Resp: 232273

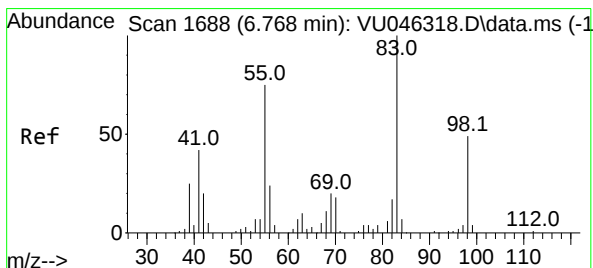
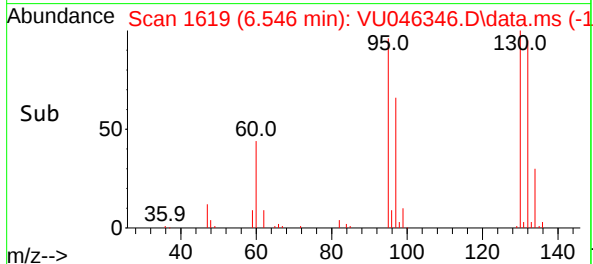
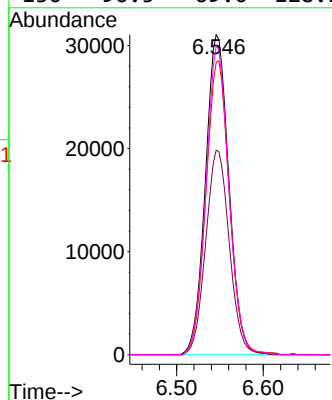
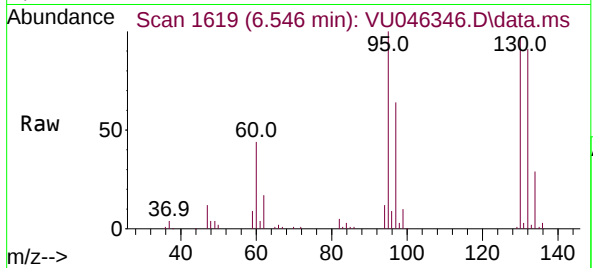




#34  
Trichloroethene  
Concen: 46.427 ug/L  
RT: 6.546 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

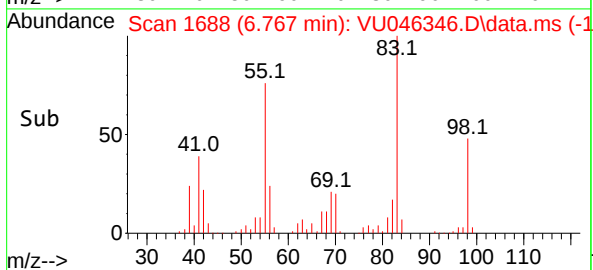
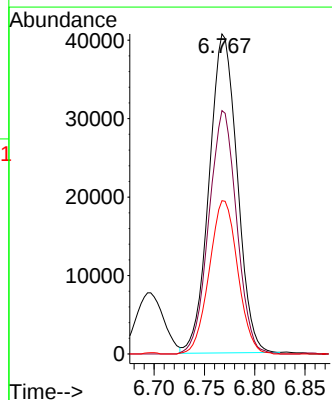
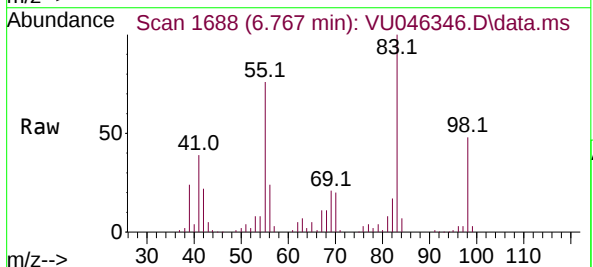
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

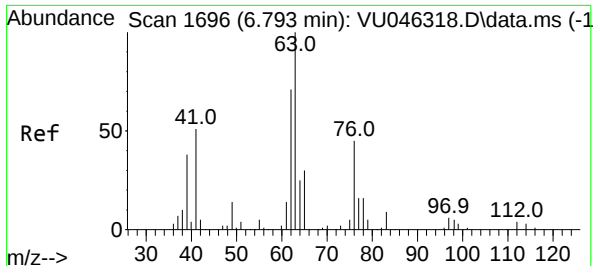
Tgt Ion: 95 Resp: 58443  
Ion Ratio Lower Upper  
95 100  
97 63.9 44.1 81.9  
132 91.3 66.8 124.0  
130 96.5 69.0 128.1



#35  
Methylcyclohexane  
Concen: 40.412 ug/L  
RT: 6.767 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion: 83 Resp: 78878  
Ion Ratio Lower Upper  
83 100  
55 75.6 57.8 86.6  
98 48.8 38.4 57.6





#37

1,2-Dichloropropane

Concen: 50.287 ug/L

RT: 6.796 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

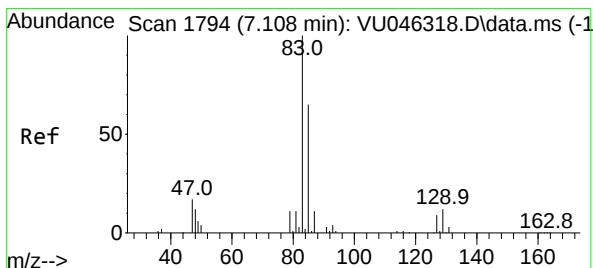
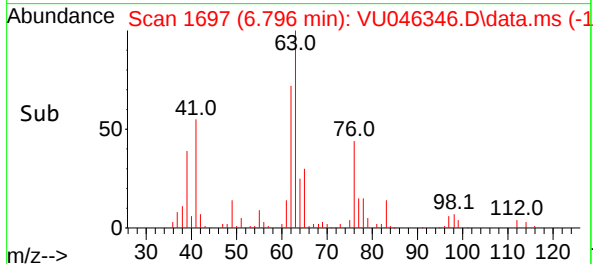
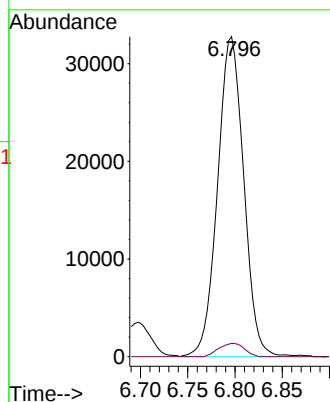
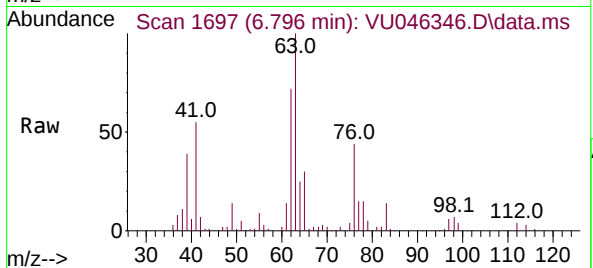
VSTD050141

Tgt Ion: 63 Resp: 62945

Ion Ratio Lower Upper

63 100

112 4.1 3.8 5.6



#38

Bromodichloromethane

Concen: 54.335 ug/L

RT: 7.108 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

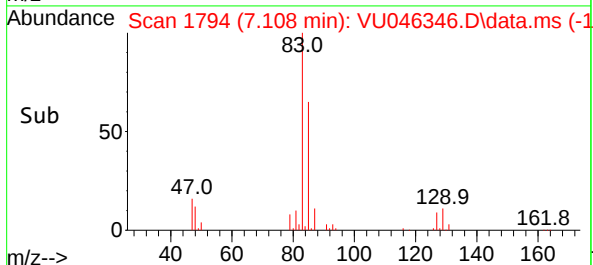
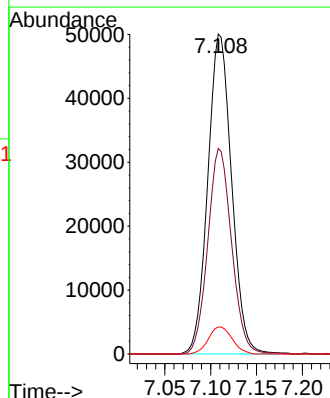
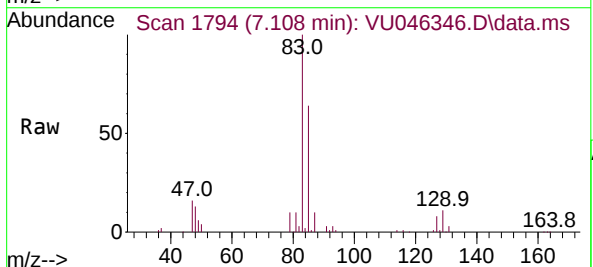
Tgt Ion: 83 Resp: 90399

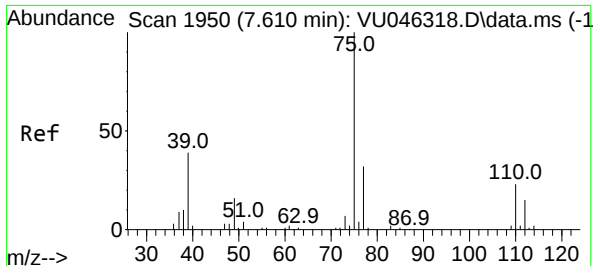
Ion Ratio Lower Upper

83 100

85 64.2 44.4 82.5

127 8.4 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 49.318 ug/L

RT: 7.613 min Scan# 1951

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

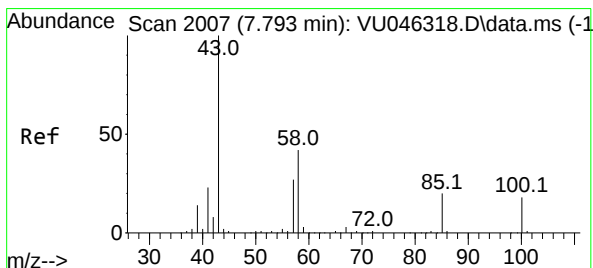
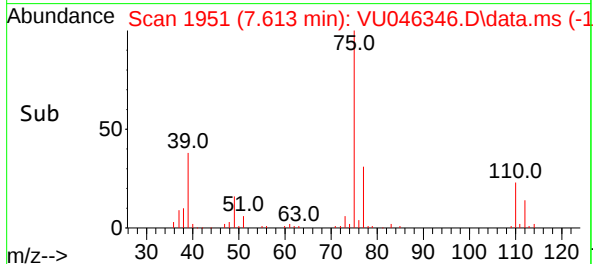
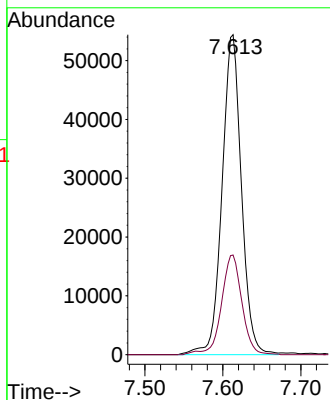
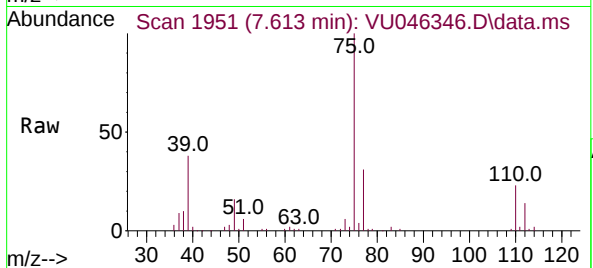
VSTD050141

Tgt Ion: 75 Resp: 93914

Ion Ratio Lower Upper

75 100

77 31.1 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 95.283 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

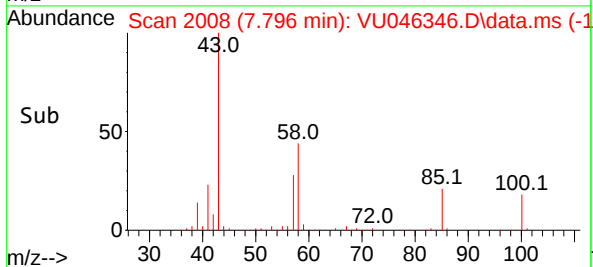
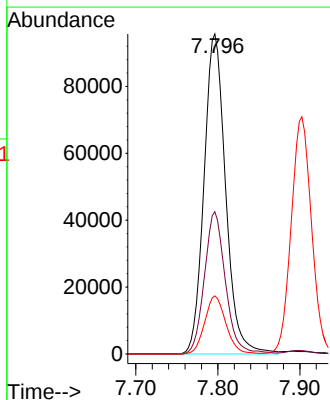
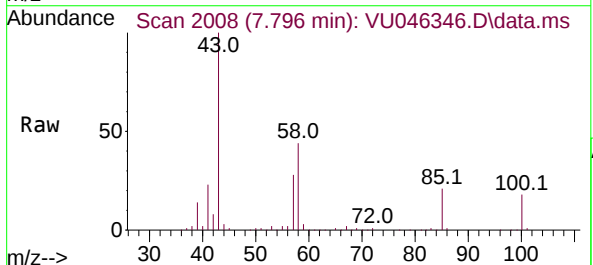
Tgt Ion: 43 Resp: 175234

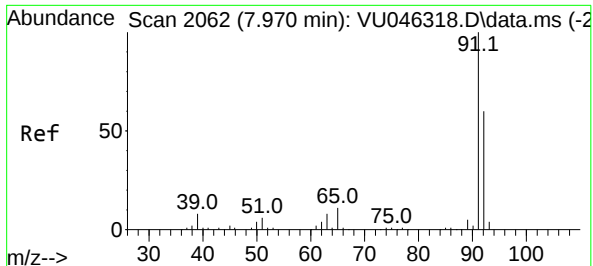
Ion Ratio Lower Upper

43 100

58 42.7 34.2 51.4

100 17.8 14.5 21.7





#42

Toluene

Concen: 48.820 ug/L

RT: 7.973 min Scan# 2062

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

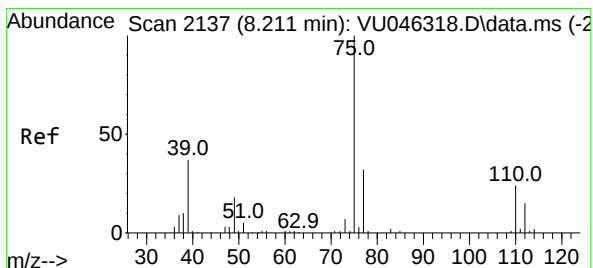
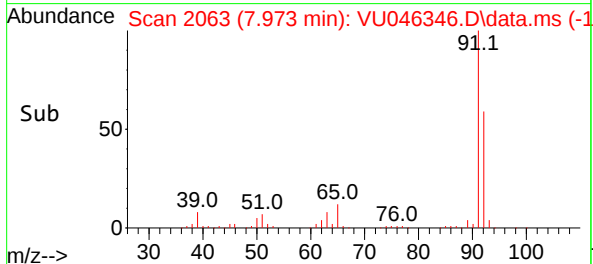
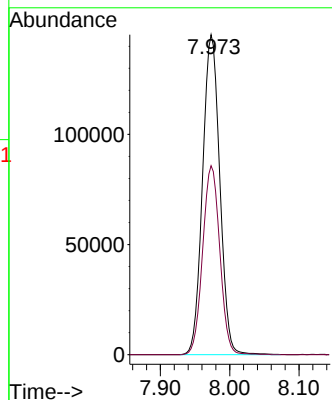
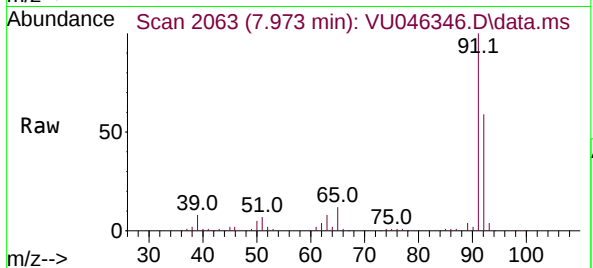
VSTD050141

Tgt Ion: 91 Resp: 250314

Ion Ratio Lower Upper

91 100

92 59.0 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 50.135 ug/L

RT: 8.214 min Scan# 2138

Delta R.T. 0.003 min

Lab File: VU046346.D

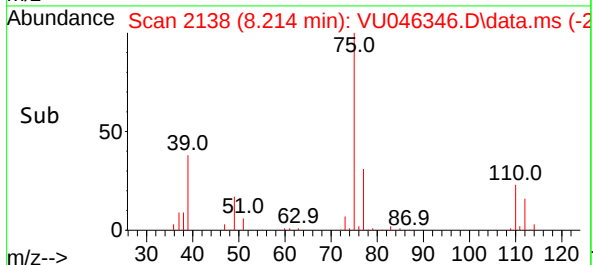
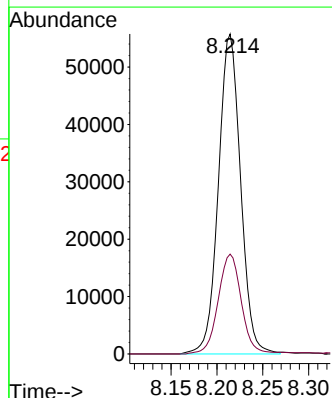
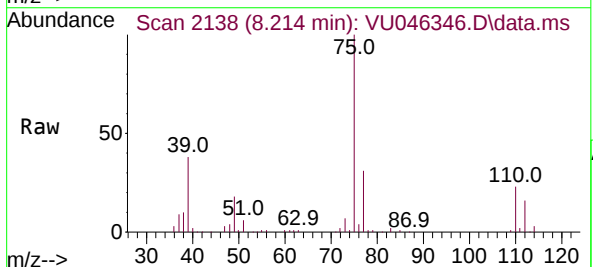
Acq: 14 Dec 2021 11:22

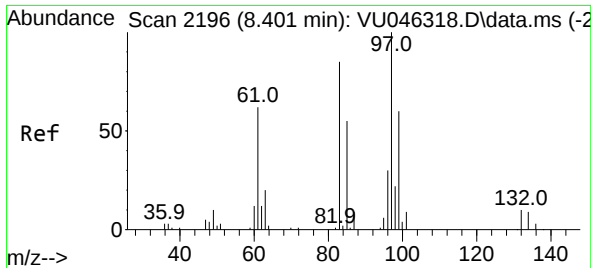
Tgt Ion: 75 Resp: 93767

Ion Ratio Lower Upper

75 100

77 31.2 21.7 40.3

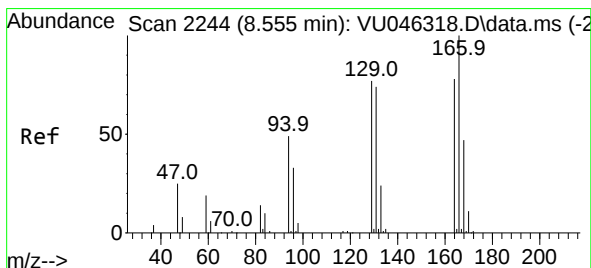
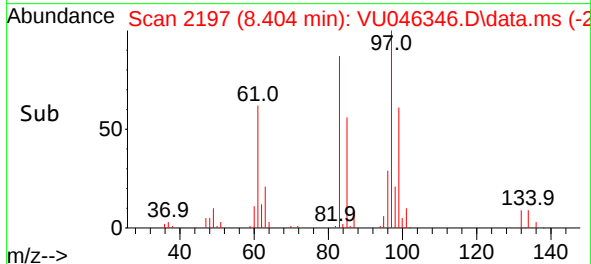
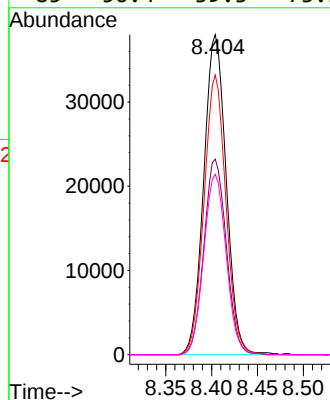
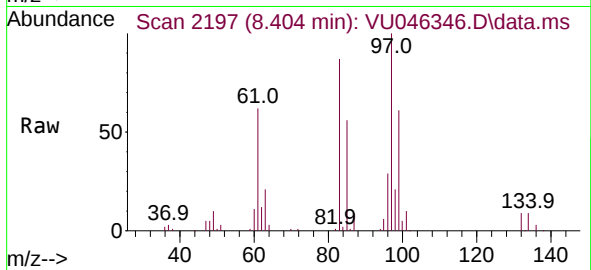




#45  
1,1,2-Trichloroethane  
Concen: 51.661 ug/L  
RT: 8.404 min Scan# 2196  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

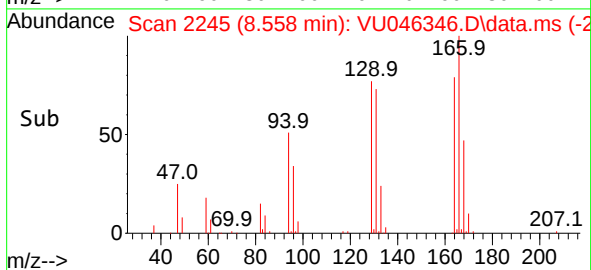
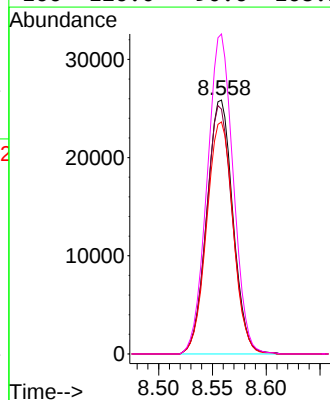
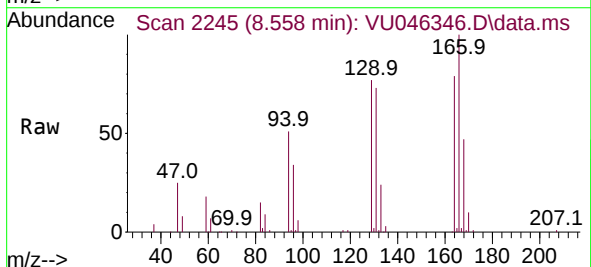
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

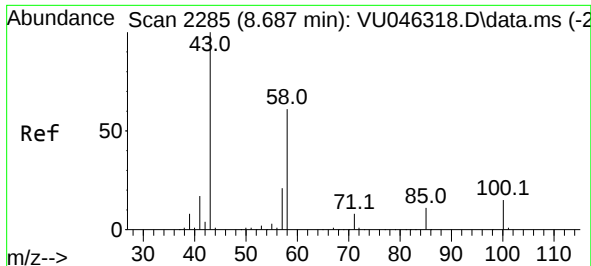
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 64876 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.1  | 44.7  | 82.9  |
| 83       | 87.4  | 60.2  | 111.8 |
| 85       | 56.4  | 39.3  | 73.1  |



#46  
Tetrachloroethene  
Concen: 47.397 ug/L  
RT: 8.558 min Scan# 2245  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 43846 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 96.4  | 71.1  | 132.1 |
| 131      | 91.4  | 67.8  | 126.0 |
| 166      | 126.0 | 90.6  | 168.2 |

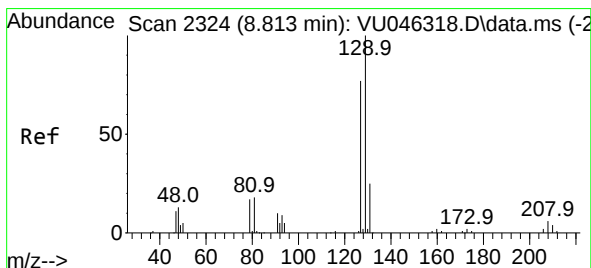
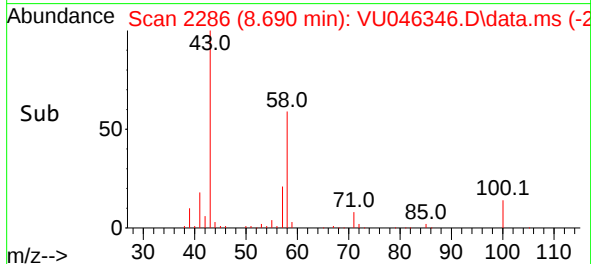
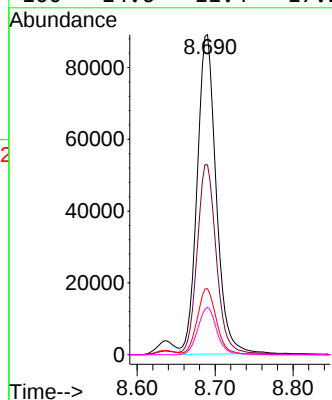
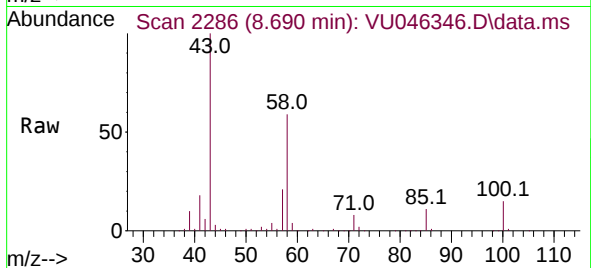




#48  
2-Hexanone  
Concen: 91.909 ug/L  
RT: 8.690 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

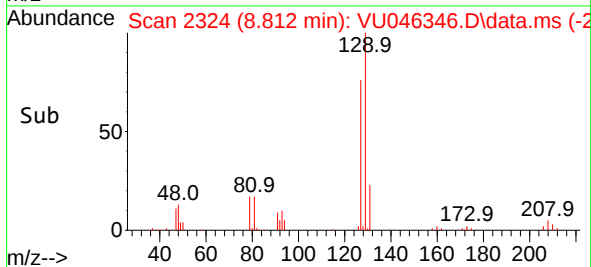
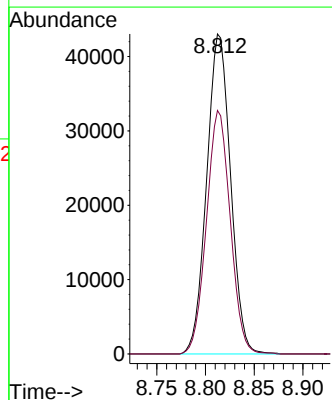
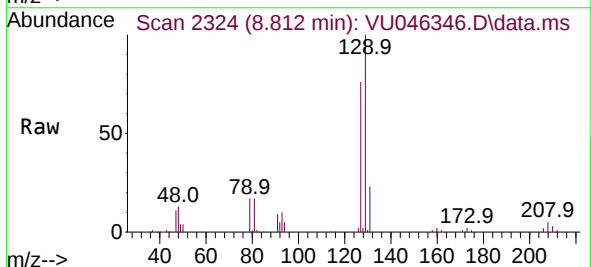
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

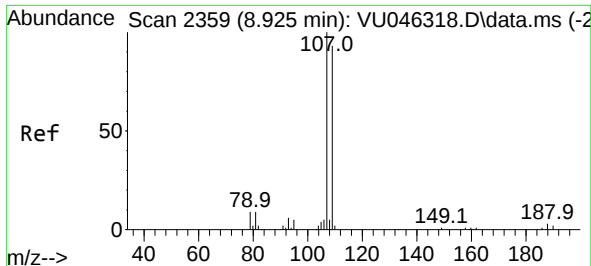
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 151166 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 59.5  | 47.4  | 71.2   |
| 57       | 20.7  | 16.6  | 25.0   |
| 100      | 14.6  | 11.4  | 17.2   |



#49  
Dibromochloromethane  
Concen: 55.797 ug/L  
RT: 8.812 min Scan# 2324  
Delta R.T. -0.000 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 73581 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 76.1  | 55.6  | 103.4 |





#50

1,2-Dibromoethane

Concen: 48.473 ug/L

RT: 8.928 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050141

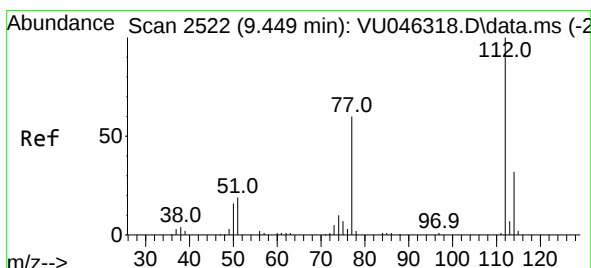
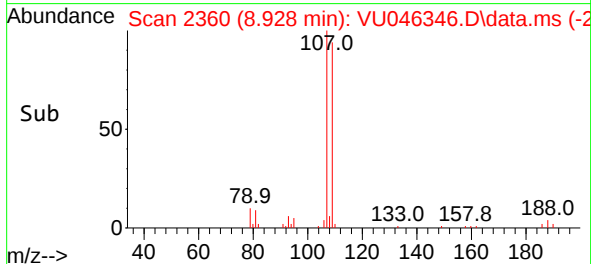
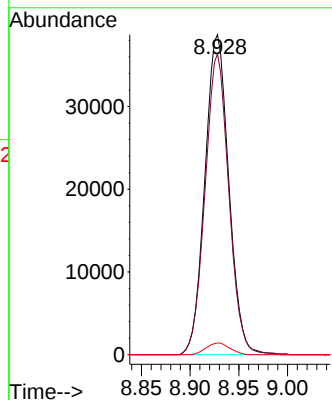
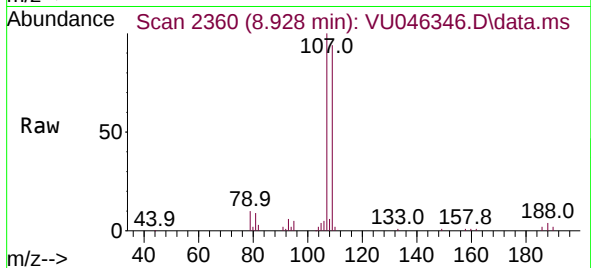
Tgt Ion:107 Resp: 65996

Ion Ratio Lower Upper

107 100

109 94.0 64.9 120.5

188 3.6 2.6 3.8



#51

Chlorobenzene

Concen: 48.099 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. -0.000 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

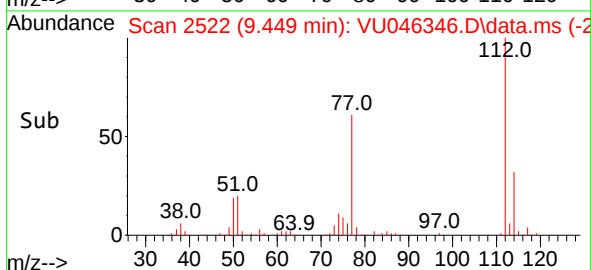
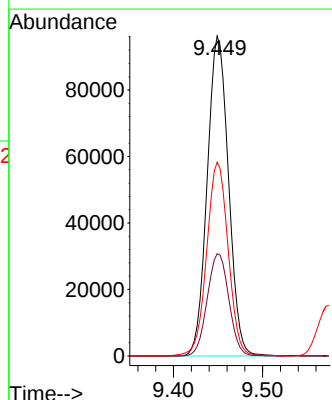
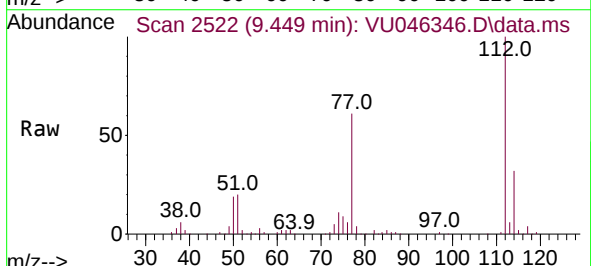
Tgt Ion:112 Resp: 159550

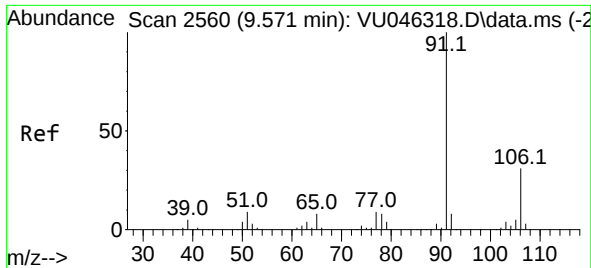
Ion Ratio Lower Upper

112 100

114 32.0 22.2 41.2

77 60.6 47.4 71.0

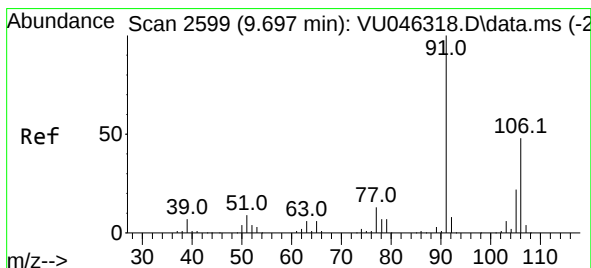
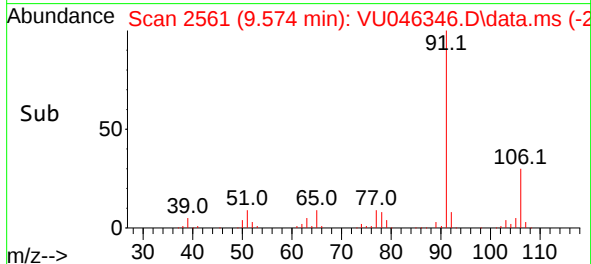
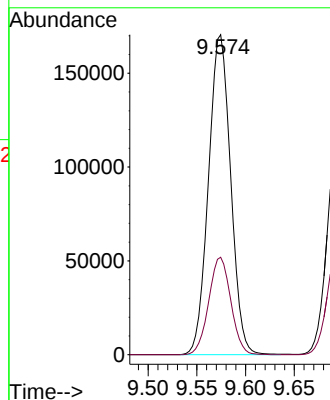
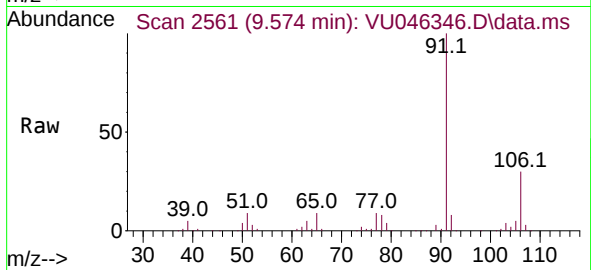




#52  
Ethylbenzene  
Concen: 48.953 ug/L  
RT: 9.574 min Scan# 2560  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

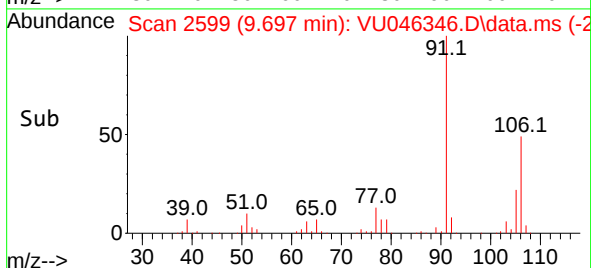
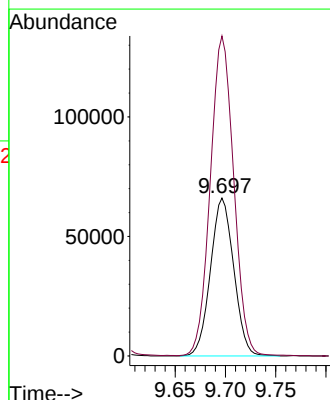
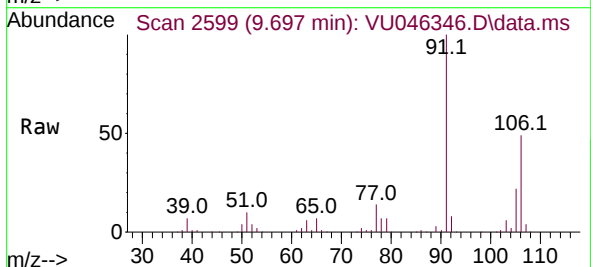
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

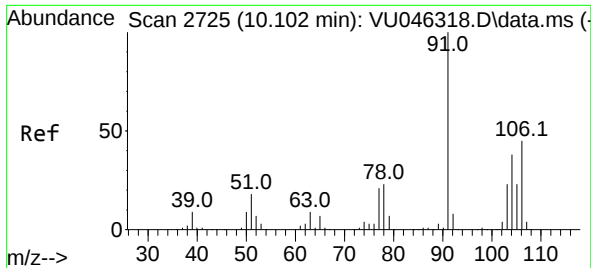
Tgt Ion: 91 Resp: 270129  
Ion Ratio Lower Upper  
91 100  
106 30.4 21.1 39.3



#53  
m,p-Xylene  
Concen: 49.472 ug/L  
RT: 9.697 min Scan# 2599  
Delta R.T. -0.000 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion:106 Resp: 106463  
Ion Ratio Lower Upper  
106 100  
91 202.6 144.3 268.1

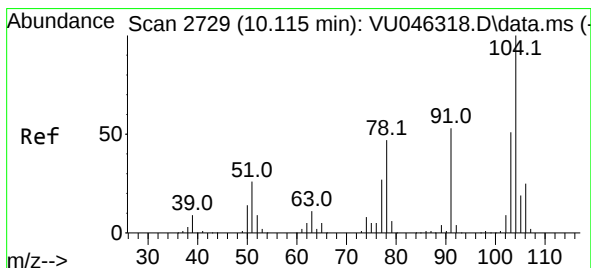
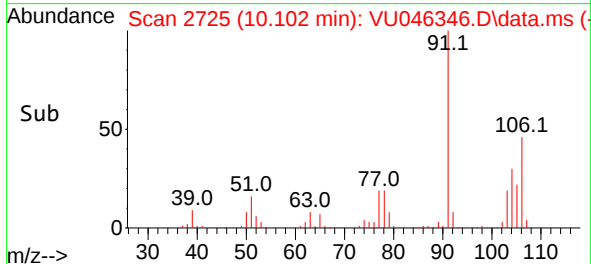
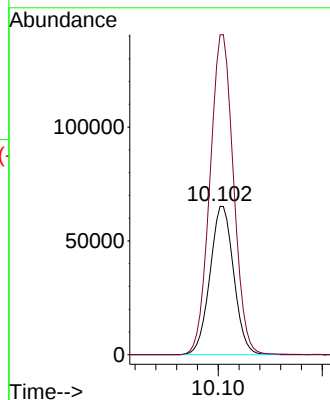
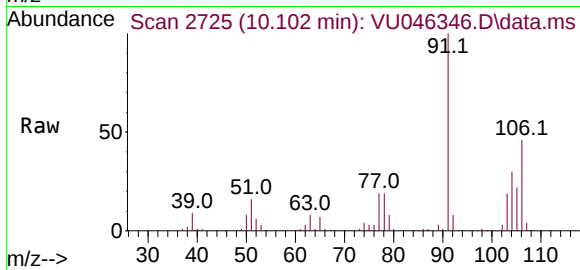




#54  
o-xylene  
Concen: 49.511 ug/L  
RT: 10.102 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

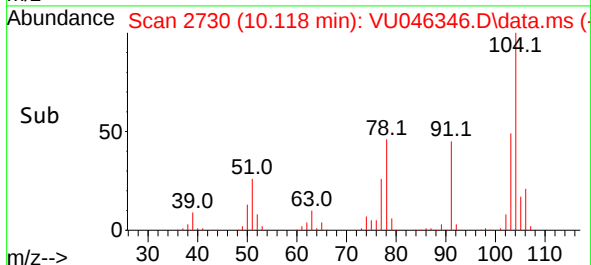
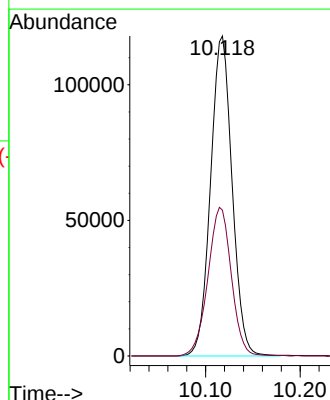
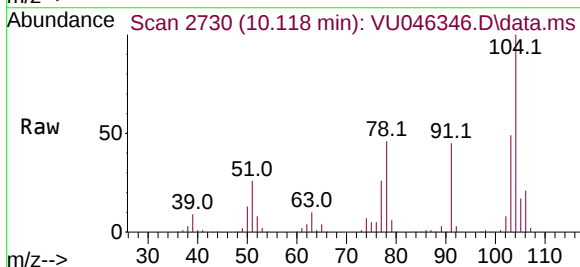
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MSVOA\_U  
ClientSampleId :  
VSTD050141

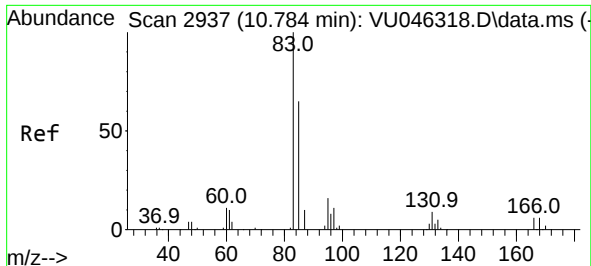
Tgt Ion:106 Resp: 103385  
Ion Ratio Lower Upper  
106 100  
91 215.6 154.2 286.4



#55  
Styrene  
Concen: 52.393 ug/L  
RT: 10.118 min Scan# 2730  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion:104 Resp: 186782  
Ion Ratio Lower Upper  
104 100  
78 45.6 32.6 60.5





#57

1,1,2,2-Tetrachloroethane

Concen: 52.310 ug/L

RT: 10.787 min Scan# 2937

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050141

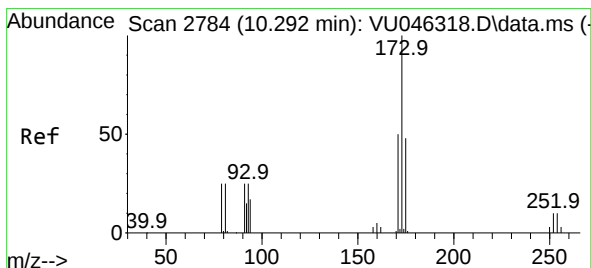
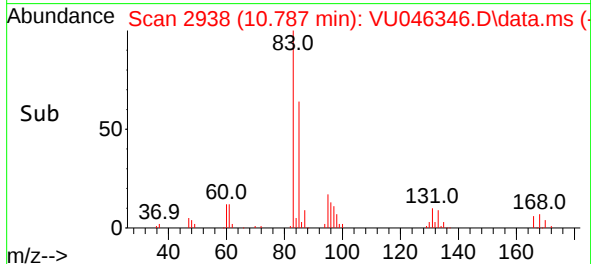
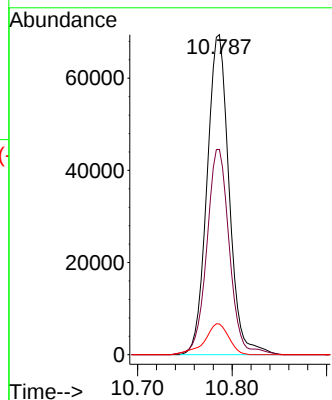
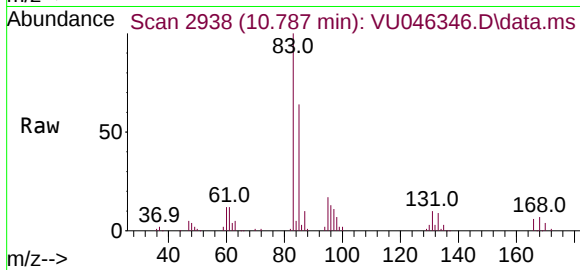
Tgt Ion: 83 Resp: 112623

Ion Ratio Lower Upper

83 100

85 64.2 45.6 84.6

131 9.6 7.8 11.6



#59

Bromoform

Concen: 51.716 ug/L

RT: 10.295 min Scan# 2785

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

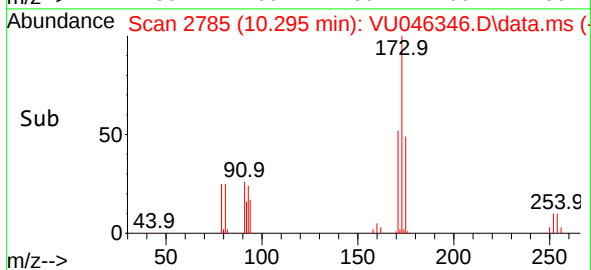
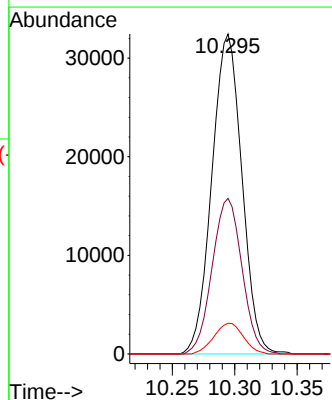
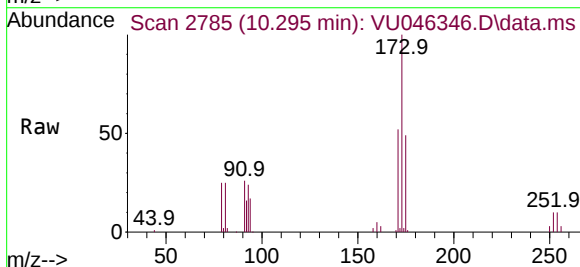
Tgt Ion:173 Resp: 54348

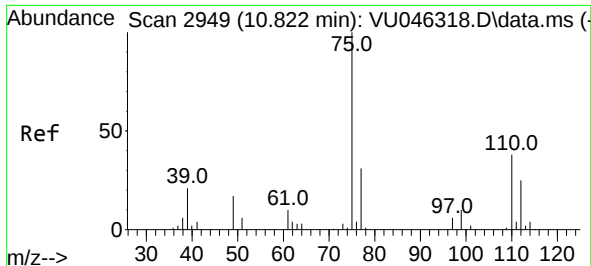
Ion Ratio Lower Upper

173 100

175 48.3 39.2 58.8

254 9.4 7.4 11.2

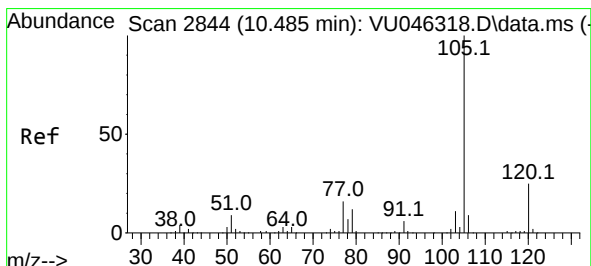
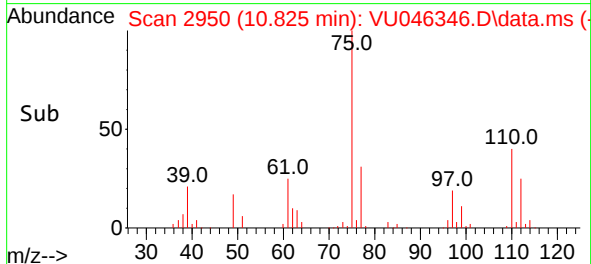
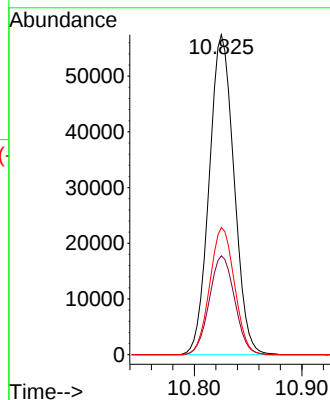
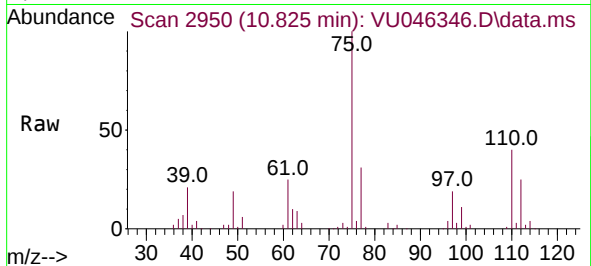




#60  
1,2,3-Trichloropropane  
Concen: 46.967 ug/L  
RT: 10.825 min Scan# 2949  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

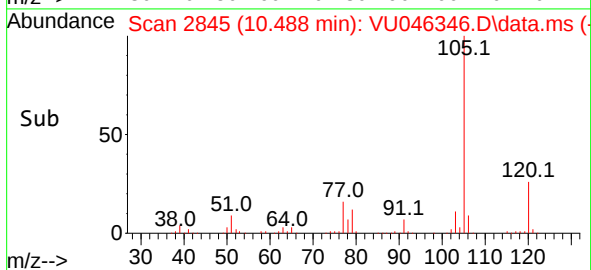
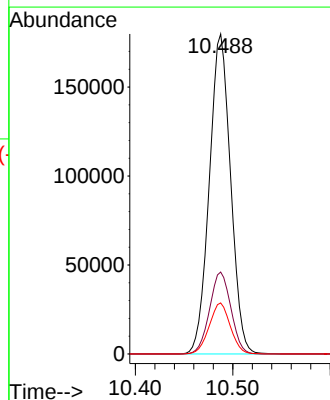
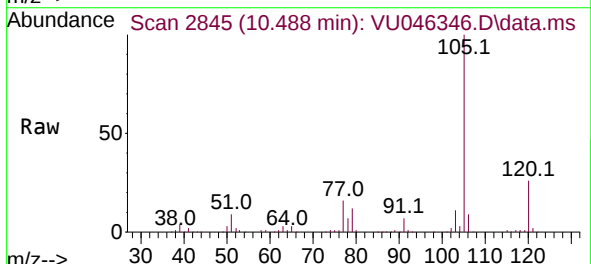
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

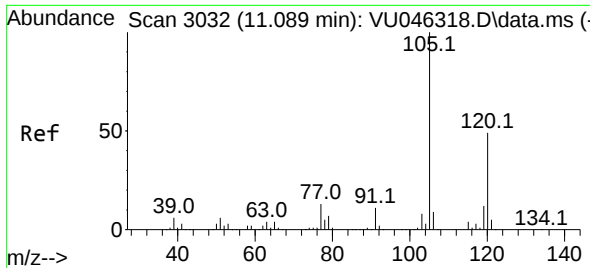
Tgt Ion: 75 Resp: 92228  
Ion Ratio Lower Upper  
75 100  
77 31.5 26.4 39.6  
110 39.6 32.4 48.6



#61  
Isopropylbenzene  
Concen: 46.684 ug/L  
RT: 10.488 min Scan# 2845  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion: 105 Resp: 272100  
Ion Ratio Lower Upper  
105 100  
120 25.7 20.7 31.1  
77 15.9 12.2 18.4

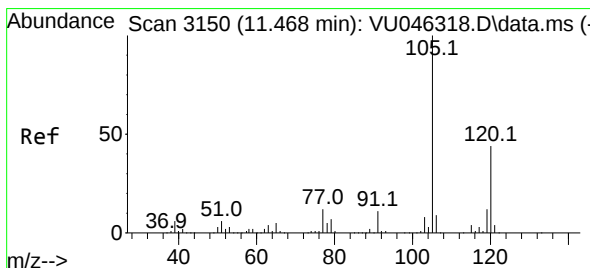
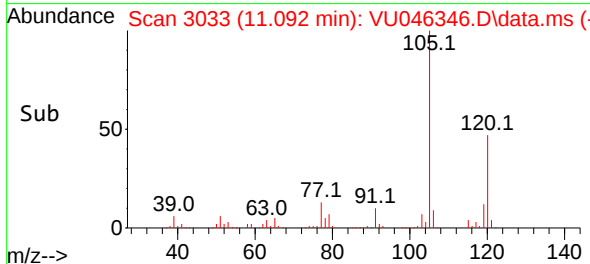
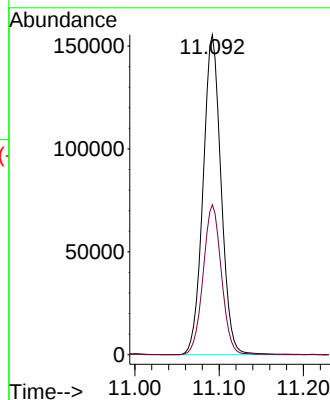
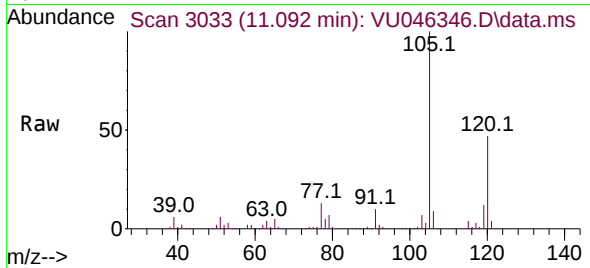




#62  
1,3,5-Trimethylbenzene  
Concen: 47.641 ug/L  
RT: 11.092 min Scan# 3033  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

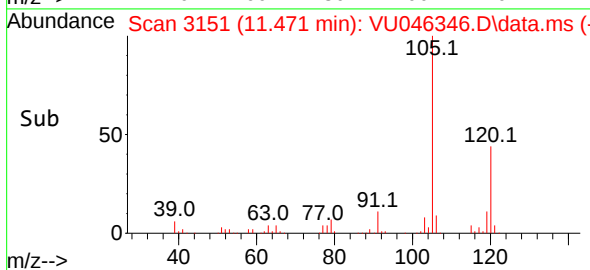
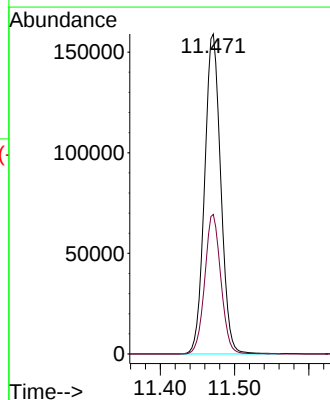
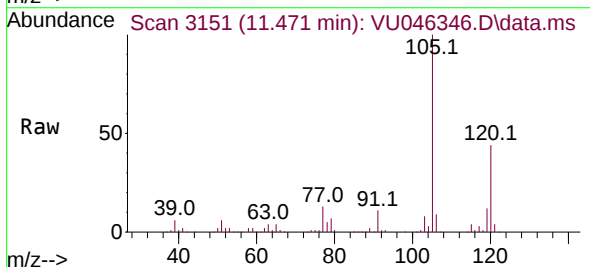
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

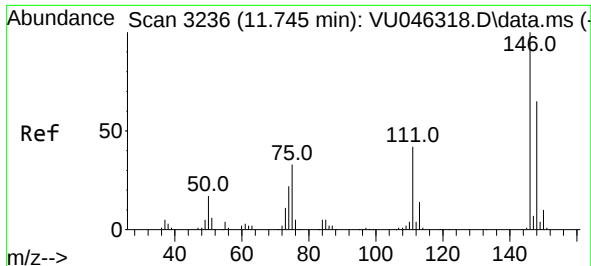
Tgt Ion:105 Resp: 231445  
Ion Ratio Lower Upper  
105 100  
120 47.6 37.8 56.6



#63  
1,2,4-Trimethylbenzene  
Concen: 49.368 ug/L  
RT: 11.471 min Scan# 3151  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion:105 Resp: 239955  
Ion Ratio Lower Upper  
105 100  
120 43.5 35.2 52.8

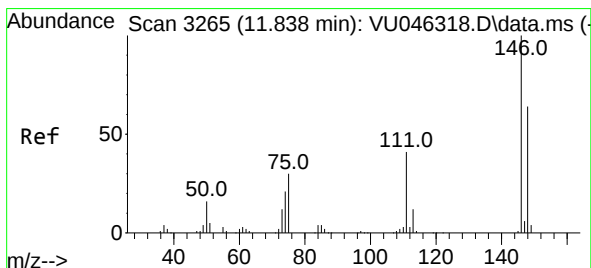
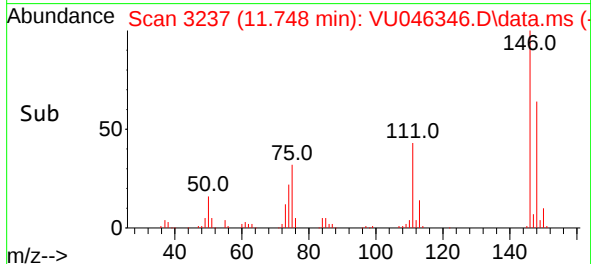
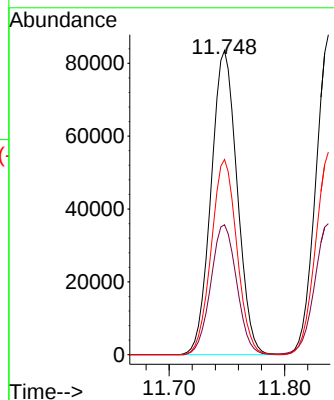
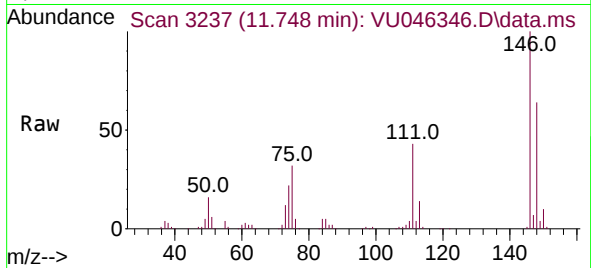




#64  
 1,3-Dichlorobenzene  
 Concen: 47.418 ug/L  
 RT: 11.748 min Scan# 31  
 Delta R.T. 0.003 min  
 Lab File: VU046346.D  
 Acq: 14 Dec 2021 11:22

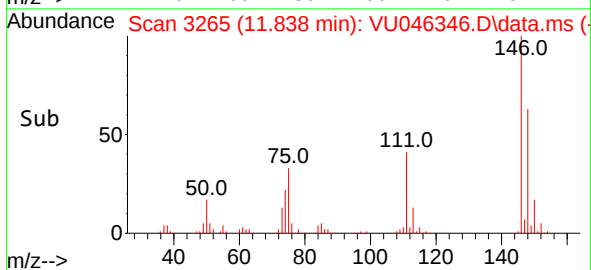
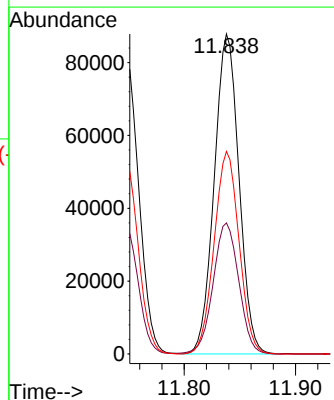
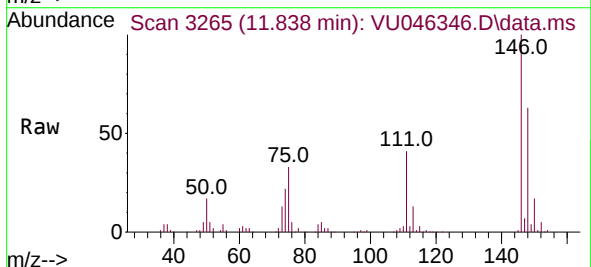
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050141

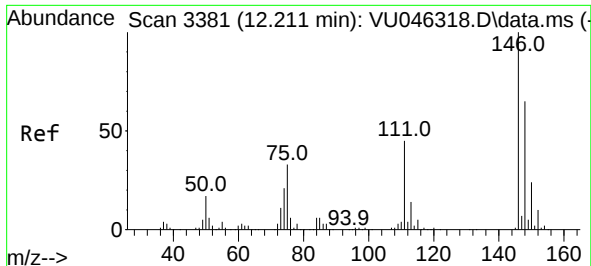
Tgt Ion:146 Resp: 131282  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 29.5 54.9  
 148 64.2 45.9 85.3



#65  
 1,4-Dichlorobenzene  
 Concen: 47.313 ug/L  
 RT: 11.838 min Scan# 3265  
 Delta R.T. -0.000 min  
 Lab File: VU046346.D  
 Acq: 14 Dec 2021 11:22

Tgt Ion:146 Resp: 135379  
 Ion Ratio Lower Upper  
 146 100  
 111 41.0 28.3 52.7  
 148 63.3 43.8 81.3





#67

1,2-Dichlorobenzene

Concen: 47.048 ug/L

RT: 12.214 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050141

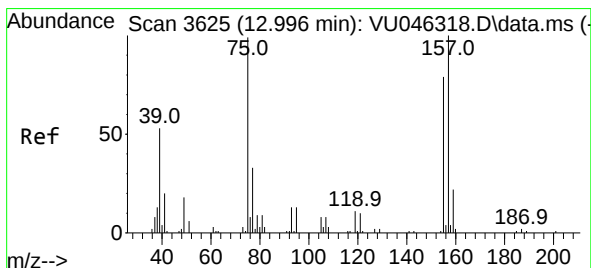
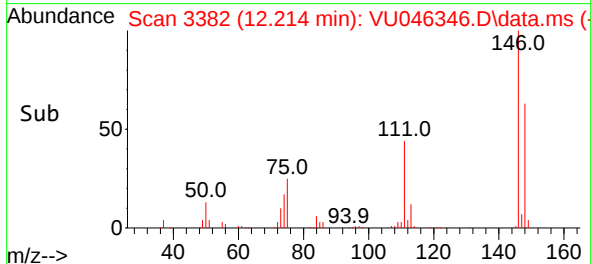
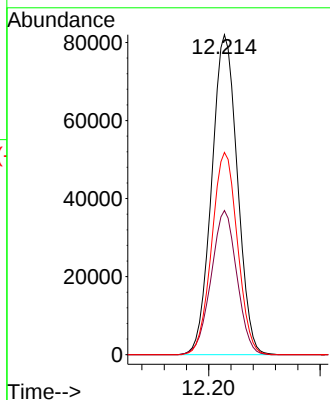
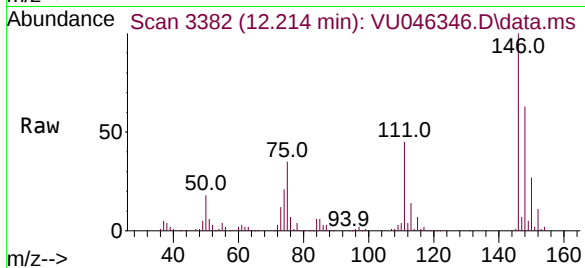
Tgt Ion:146 Resp: 131173

Ion Ratio Lower Upper

146 100

111 45.1 35.7 53.5

148 63.2 51.2 76.8



#68

1,2-Dibromo-3-chloropropane

Concen: 53.310 ug/L

RT: 12.999 min Scan# 3626

Delta R.T. 0.003 min

Lab File: VU046346.D

Acq: 14 Dec 2021 11:22

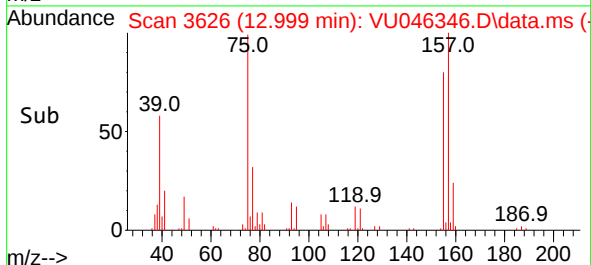
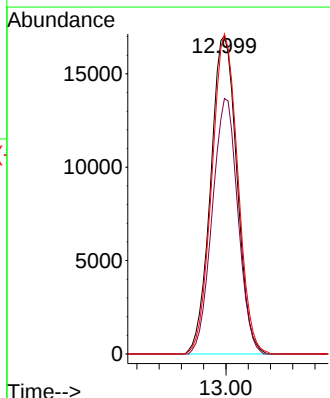
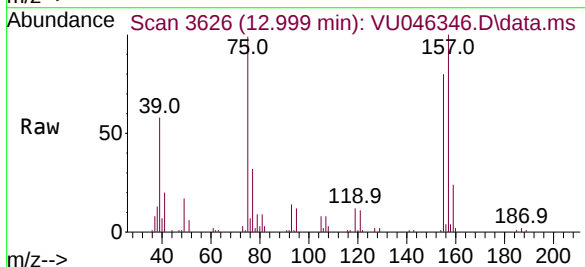
Tgt Ion: 75 Resp: 27888

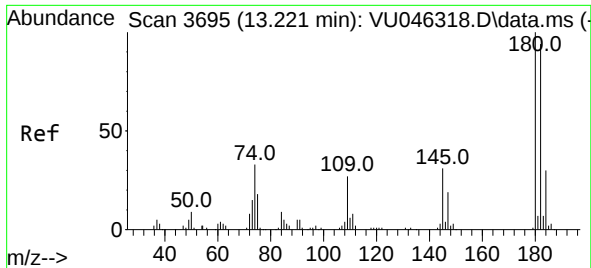
Ion Ratio Lower Upper

75 100

155 80.4 64.9 97.3

157 100.7 81.9 122.9



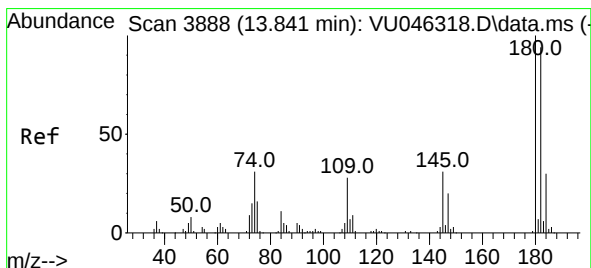
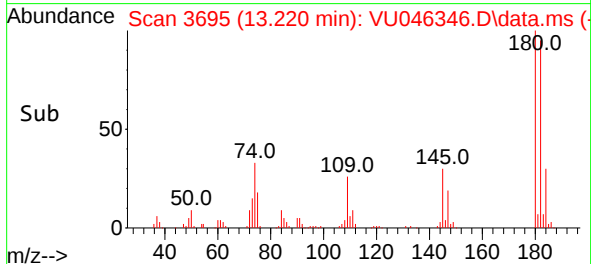
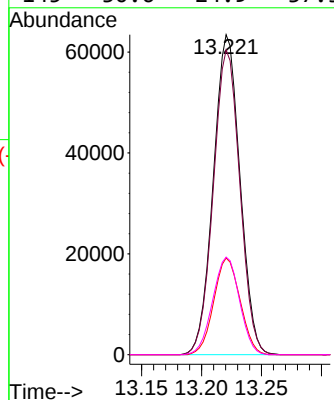
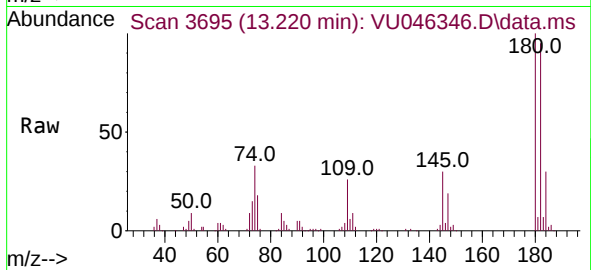


#69  
1,3,5-Trichlorobenzene  
Concen: 48.505 ug/L  
RT: 13.220 min Scan# 3695  
Delta R.T. -0.000 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

Tgt Ion:180 Resp: 97850

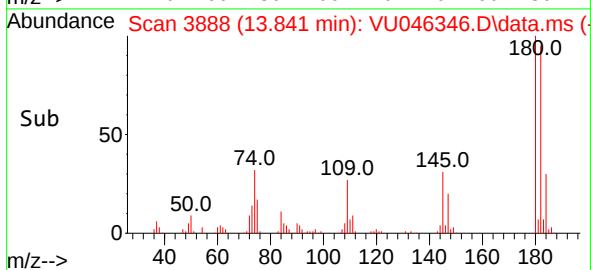
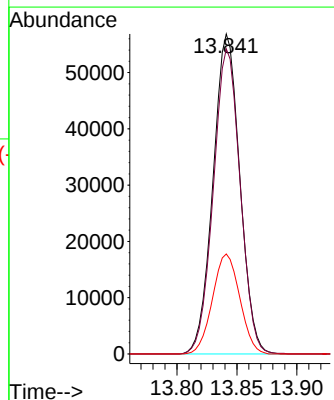
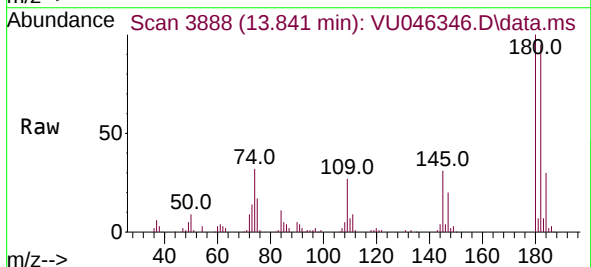
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.8  | 75.9  | 113.9 |
| 184 | 29.8  | 24.2  | 36.4  |
| 145 | 30.6  | 24.9  | 37.3  |

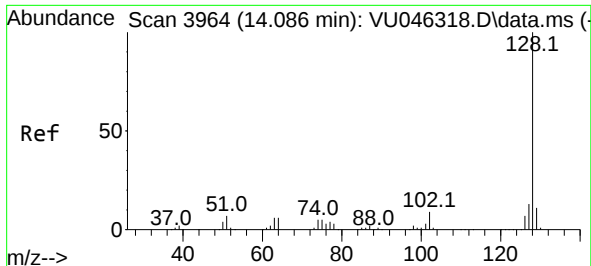


#70  
1,2,4-trichlorobenzene  
Concen: 49.284 ug/L  
RT: 13.841 min Scan# 3888  
Delta R.T. 0.000 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion:180 Resp: 88226

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 95.2  | 76.7  | 115.1 |
| 145 | 31.8  | 26.0  | 39.0  |

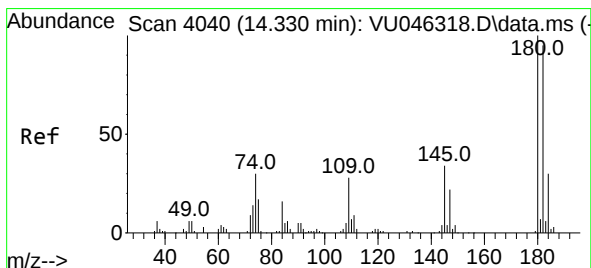
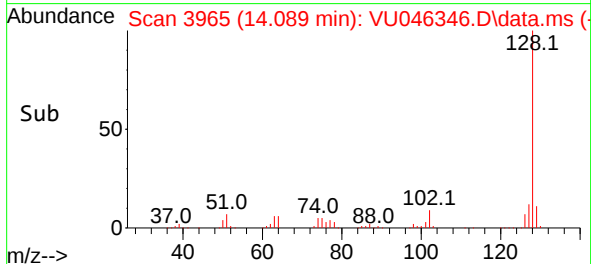
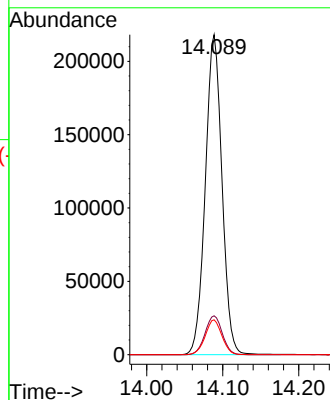
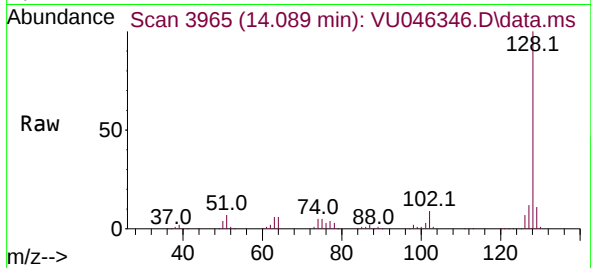




#71  
Naphthalene  
Concen: 53.339 ug/L  
RT: 14.089 min Scan# 3964  
Delta R.T. 0.003 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050141

Tgt Ion:128 Resp: 332273  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.1 15.1  
129 10.9 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 51.218 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. -0.000 min  
Lab File: VU046346.D  
Acq: 14 Dec 2021 11:22

Tgt Ion:180 Resp: 93498  
Ion Ratio Lower Upper  
180 100  
182 97.2 76.0 114.0  
145 35.1 27.3 40.9

