

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111123\  
 Data File : VU056246.D  
 Acq On : 12 Nov 2023 03:46  
 Operator : MD/SY  
 Sample : 05371-18MSD  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 12 04:03:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR110723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Nov 11 22:15:12 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 385616   | 5.000    | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 371008   | 5.000    | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 195309   | 5.000    | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.599  | 65    | 85688    | 3.580    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 71.600%   |
| 7) Chloroethane-d5            | 1.907  | 69    | 70517    | 4.341    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 86.800%   |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 40556    | 3.846    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 77.000%   |
| 20) 2-Butanone-d5             | 4.618  | 46    | 275609   | 70.189   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 140.380%# |
| 24) Chloroform-d              | 5.058  | 84    | 230317   | 5.055    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 101.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 106253   | 5.296    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 106.000%  |
| 32) Benzene-d6                | 5.721  | 84    | 434978   | 4.882    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 97.600%   |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67    | 136319   | 5.197    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 104.000%  |
| 41) Toluene-d8                | 7.894  | 98    | 389685   | 4.772    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 95.400%   |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 49088    | 4.896    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 98.000%   |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 251946   | 76.667   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 153.340%# |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749 | 84    | 114598   | 6.121    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 122.400%# |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 148212   | 4.921    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 98.400%   |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 158406   | 4.844    | ug/L   | 98        |
| 3) Chloromethane              | 1.518  | 50    | 154002   | 5.027    | ug/L   | 97        |
| 5) Vinyl chloride             | 1.602  | 62    | 153657   | 4.848    | ug/L   | 97        |
| 6) Bromomethane               | 1.856  | 94    | 75216    | 4.132    | ug/L   | 98        |
| 8) Chloroethane               | 1.930  | 64    | 84875    | 4.939    | ug/L   | 98        |
| 9) Trichlorofluoromethane     | 2.136  | 101   | 226151   | 5.395    | ug/L   | 99        |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101   | 140711   | 5.269    | ug/L   | 97        |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 129996   | 5.245    | ug/L   | 97        |
| 13) Acetone                   | 2.628  | 43    | 182122   | 62.890   | ug/L   | 99        |
| 14) Carbon disulfide          | 2.792  | 76    | 401550   | 4.755    | ug/L   | 98        |
| 15) Methyl Acetate            | 2.946  | 43    | 31682    | 3.877    | ug/L   | 95        |
| 16) Methylene chloride        | 3.042  | 84    | 137645   | 4.843    | ug/L   | 99        |
| 17) Methyl tert-butyl Ether   | 3.354  | 73    | 286685   | 5.134    | ug/L   | 99        |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96    | 133007   | 5.064    | ug/L   | 98        |
| 19) 1,1-Dichloroethane        | 3.862  | 63    | 246170   | 5.138    | ug/L   | 96        |
| 21) 2-Butanone                | 4.698  | 43    | 266267   | 55.753   | ug/L   | 97        |
| 22) cis-1,2-Dichloroethene    | 4.660  | 96    | 148704   | 5.245    | ug/L   | 96        |
| 23) Bromochloromethane        | 4.968  | 128   | 62783    | 4.991    | ug/L   | 97        |
| 25) Chloroform                | 5.081  | 83    | 257977   | 5.053    | ug/L   | 100       |

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 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

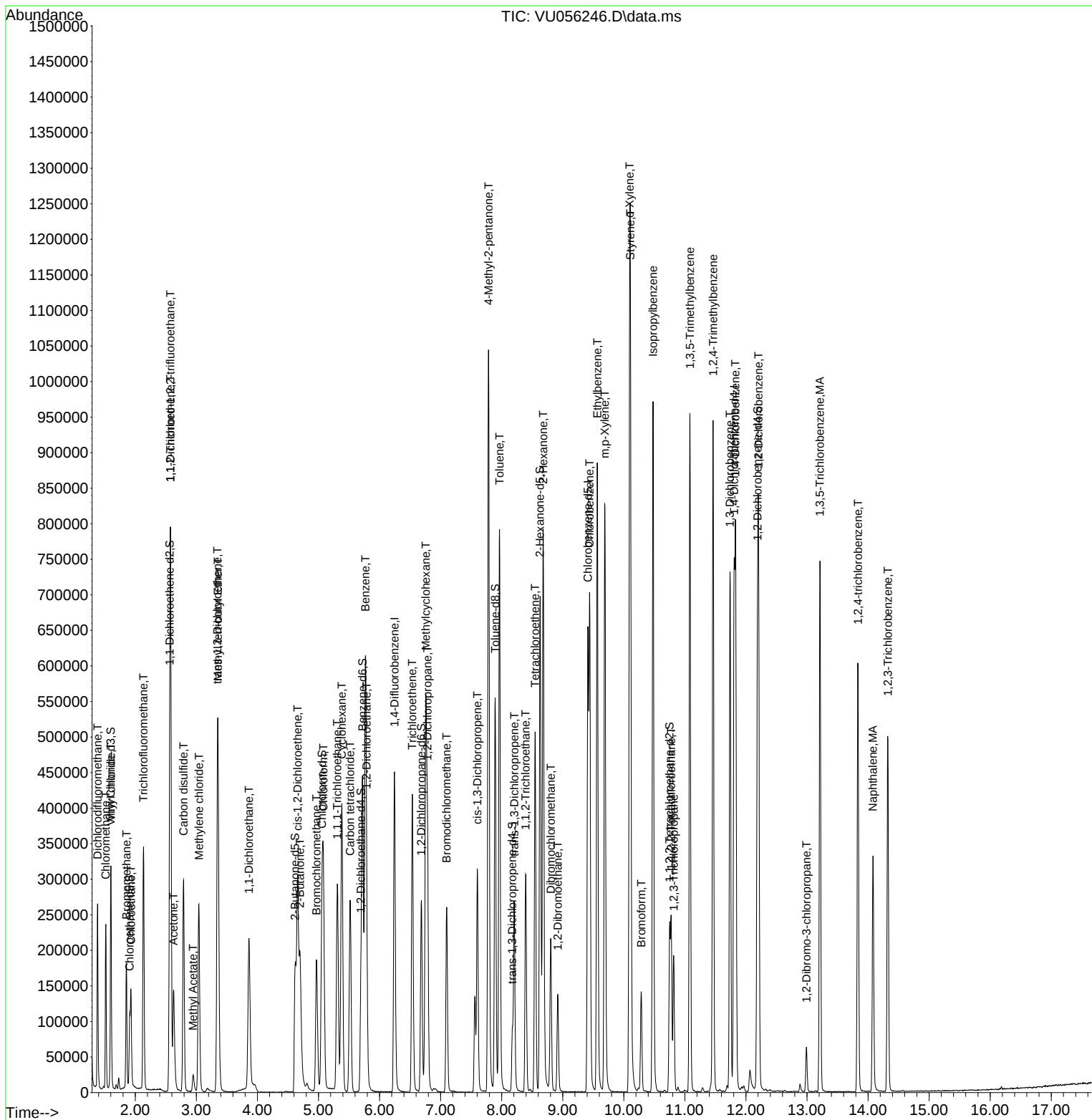
Instrument :  
 MSVOA\_U  
 ClientSampleId :

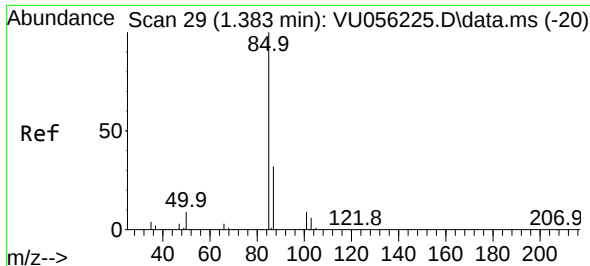
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR110723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Nov 11 22:15:12 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.788  | 62   | 145494   | 5.036  | ug/L # | 94       |
| 29) 1,1,1-Trichloroethane     | 5.309  | 97   | 221469   | 5.211  | ug/L   | 99       |
| 30) Cyclohexane               | 5.383  | 56   | 206329   | 5.196  | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.518  | 117  | 194173   | 5.145  | ug/L   | 99       |
| 33) Benzene                   | 5.769  | 78   | 566208   | 5.330  | ug/L   | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 149594   | 5.155  | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.759  | 83   | 219377   | 5.087  | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 145245   | 5.258  | ug/L   | 100      |
| 38) Bromodichloromethane      | 7.100  | 83   | 176206   | 5.108  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 194577   | 4.990  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.785  | 43   | 660082   | 54.626 | ug/L   | 99       |
| 42) Toluene                   | 7.965  | 91   | 605322   | 5.405  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 162065   | 5.134  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 99274    | 5.257  | ug/L   | 99       |
| 47) Tetrachloroethene         | 8.547  | 164  | 115348   | 5.296  | ug/L   | 97       |
| 48) 2-Hexanone                | 8.679  | 43   | 477024   | 54.220 | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.804  | 129  | 112005   | 5.169  | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.920  | 107  | 95128    | 5.391  | ug/L   | 94       |
| 51) Chlorobenzene             | 9.441  | 112  | 382155   | 5.289  | ug/L   | 98       |
| 52) Ethylbenzene              | 9.566  | 91   | 656373   | 5.378  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.688  | 106  | 251426   | 5.417  | ug/L   | 99       |
| 54) o-Xylene                  | 10.097 | 106  | 245778   | 5.524  | ug/L   | 93       |
| 55) Styrene                   | 10.110 | 104  | 406867   | 5.590  | ug/L   | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 120468   | 5.428  | ug/L   | 98       |
| 59) Bromoform                 | 10.286 | 173  | 65600    | 4.836  | ug/L   | 98       |
| 60) Isopropylbenzene          | 10.479 | 105  | 654411   | 5.168  | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 10.817 | 75   | 81997    | 4.864  | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 532096   | 5.181  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 531449   | 5.276  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 313319   | 5.224  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 310167   | 5.230  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 284604   | 5.150  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 16690    | 4.693  | ug/L   | 90       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 235249   | 5.237  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 190330   | 5.341  | ug/L   | 98       |
| 71) Naphthalene               | 14.081 | 128  | 276003   | 5.222  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 159927   | 5.119  | ug/L   | 99       |

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

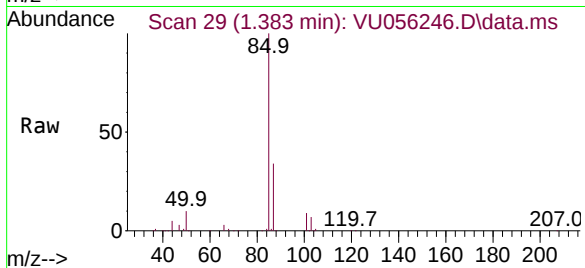
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR110723WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Sat Nov 11 22:15:12 2023  
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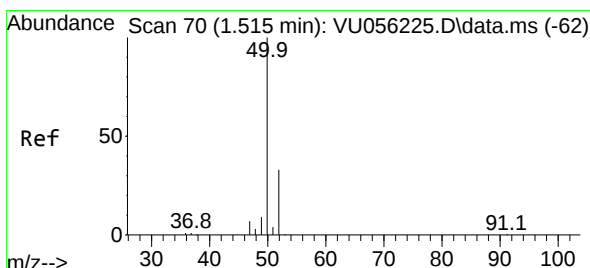
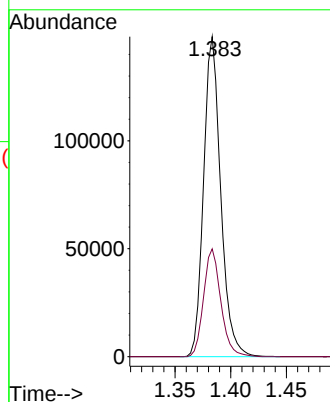
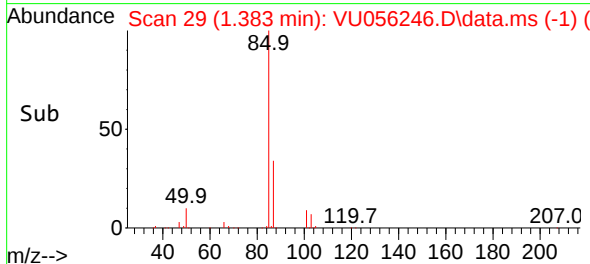


#2  
 Dichlorodifluoromethane  
 Concen: 4.844 ug/L  
 RT: 1.383 min Scan# 29  
 Delta R.T. -0.000 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

Instrument :  
 MSVOA\_U  
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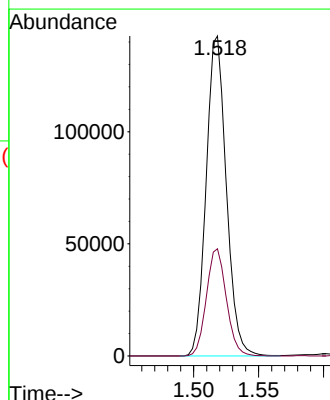
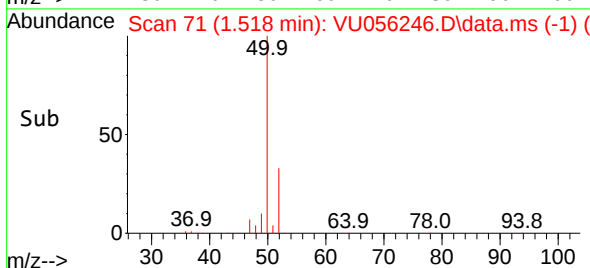
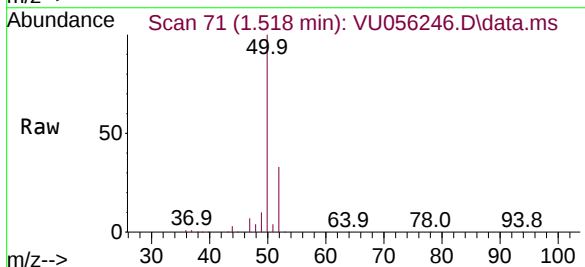


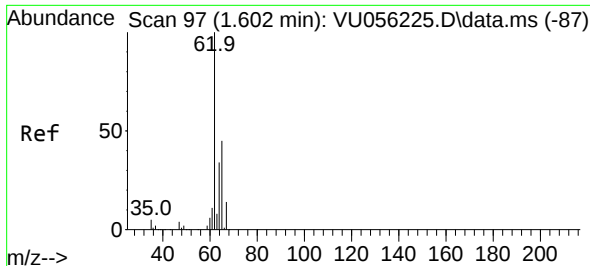
Tgt Ion: 85 Resp: 158406  
 Ion Ratio Lower Upper  
 85 100  
 87 34.0 26.4 39.6



#3  
 Chloromethane  
 Concen: 5.027 ug/L  
 RT: 1.518 min Scan# 71  
 Delta R.T. 0.003 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

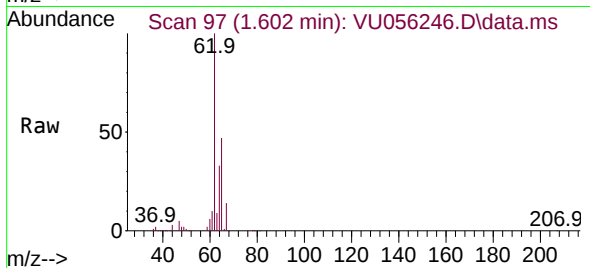
Tgt Ion: 50 Resp: 154002  
 Ion Ratio Lower Upper  
 50 100  
 52 33.5 22.2 41.2



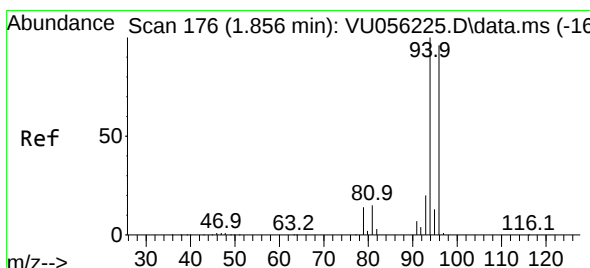
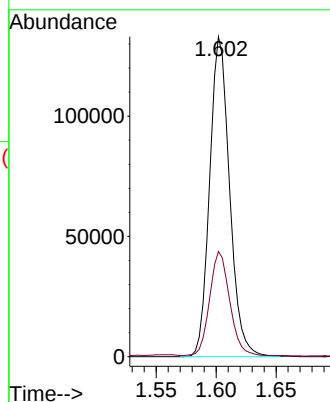
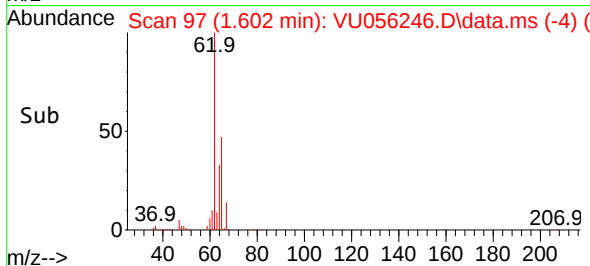


#5  
 Vinyl chloride  
 Concen: 4.848 ug/L  
 RT: 1.602 min Scan# 91  
 Delta R.T. -0.000 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :

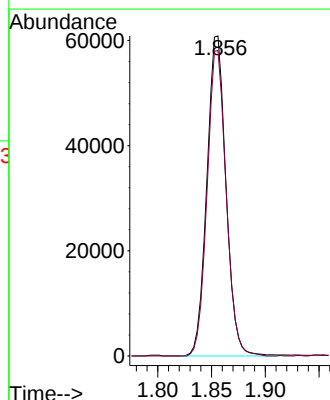
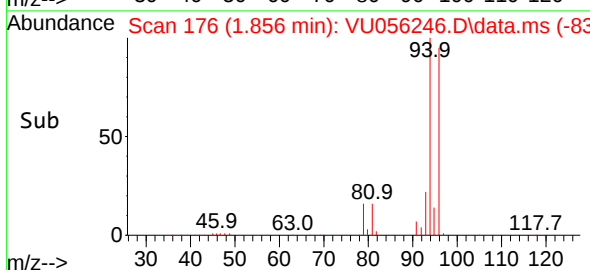
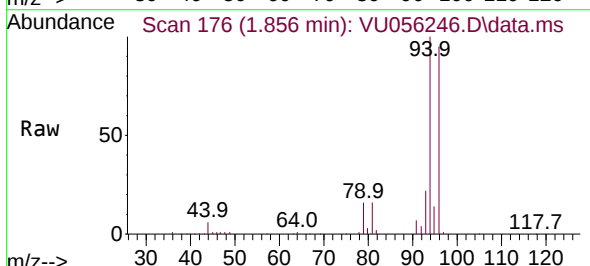


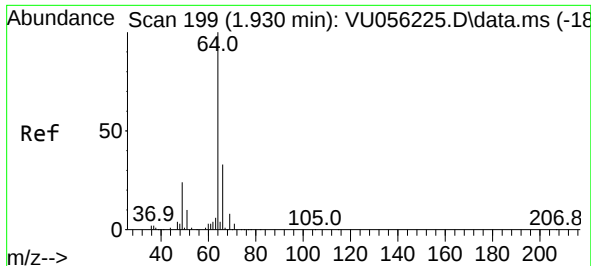
Tgt Ion: 62 Resp: 153657  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 24.1 44.7



#6  
 Bromomethane  
 Concen: 4.132 ug/L  
 RT: 1.856 min Scan# 176  
 Delta R.T. -0.000 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

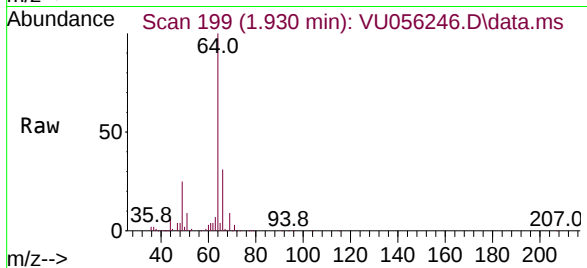
Tgt Ion: 94 Resp: 75216  
 Ion Ratio Lower Upper  
 94 100  
 96 95.5 65.6 121.8



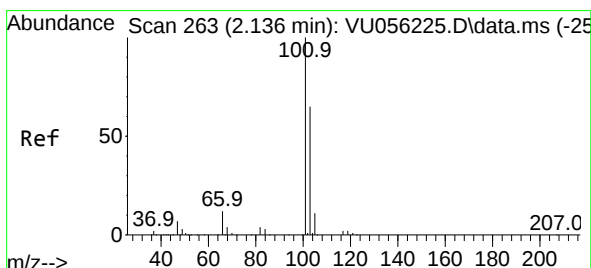
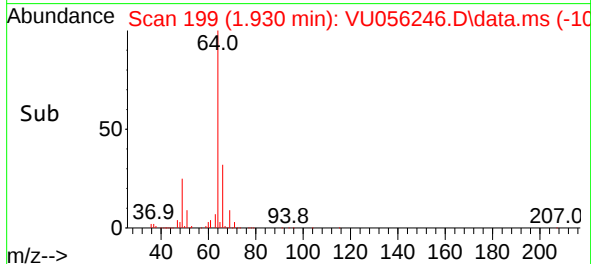
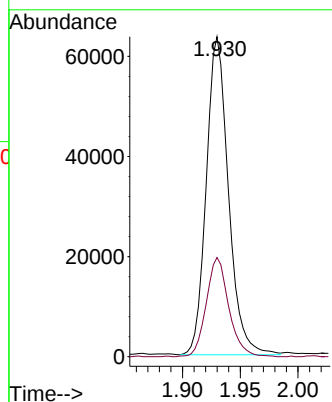


#8  
Chloroethane  
Concen: 4.939 ug/L  
RT: 1.930 min Scan# 199  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

Instrument :  
MSVOA\_U  
ClientSampleId :

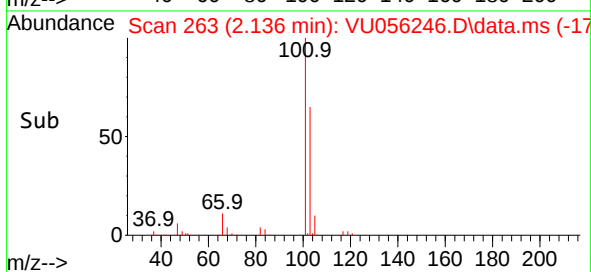
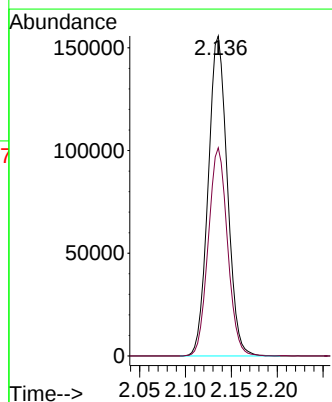
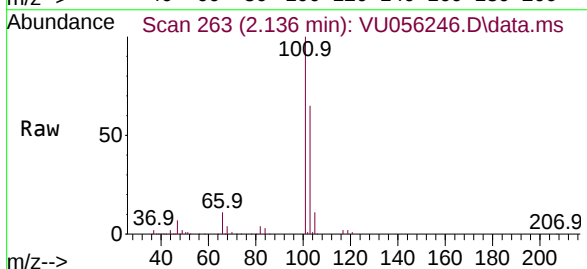


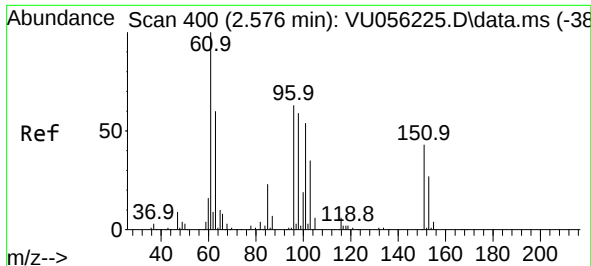
Tgt Ion: 64 Resp: 84875  
Ion Ratio Lower Upper  
64 100  
66 31.0 22.4 41.6



#9  
Trichlorofluoromethane  
Concen: 5.395 ug/L  
RT: 2.136 min Scan# 263  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

Tgt Ion: 101 Resp: 226151  
Ion Ratio Lower Upper  
101 100  
103 65.4 51.8 77.6

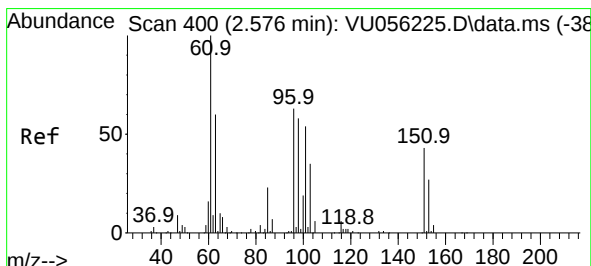
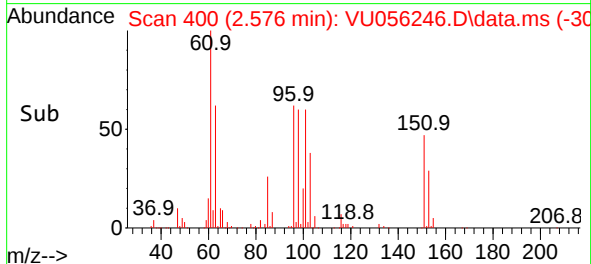
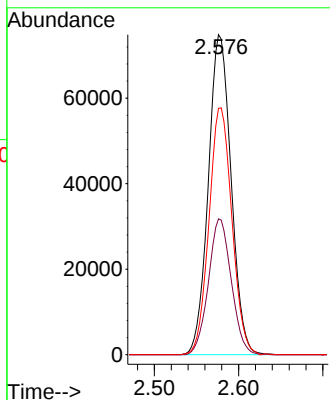
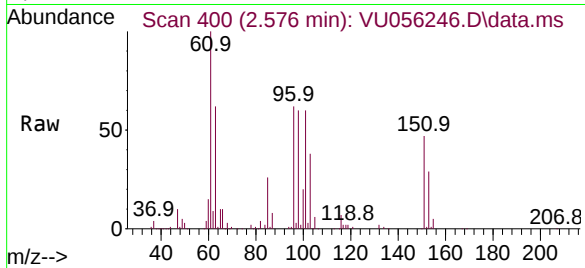




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.269 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. -0.000 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

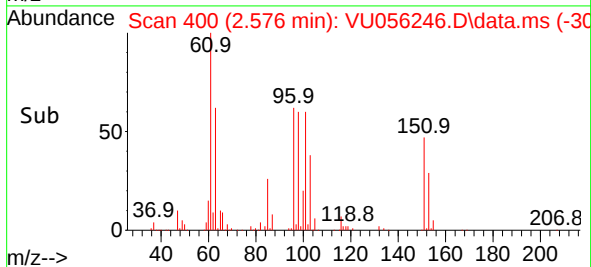
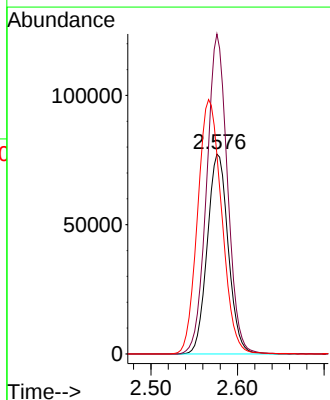
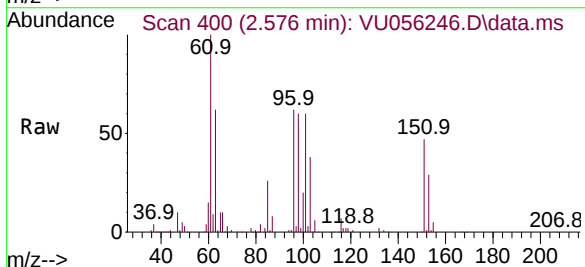
Instrument :  
 MSVOA\_U  
 ClientSampleId :

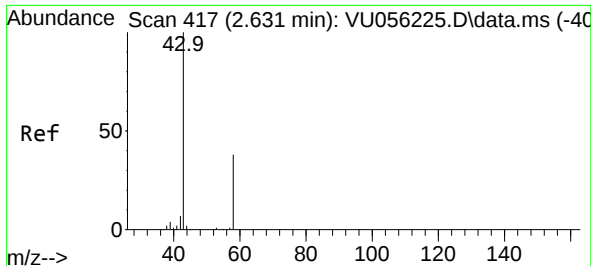
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 Ion Ratio Lower Upper  
 101 100  
 85 42.6 34.2 51.4  
 151 77.6 59.3 88.9



#12  
 1,1-Dichloroethene  
 Concen: 5.245 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. -0.000 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

Tgt Ion: 96 Resp: 129996  
 Ion Ratio Lower Upper  
 96 100  
 61 160.2 111.7 207.5  
 63 99.7 74.5 138.3





#13

Acetone

Concen: 62.890 ug/L

RT: 2.628 min Scan# 41

Delta R.T. -0.003 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

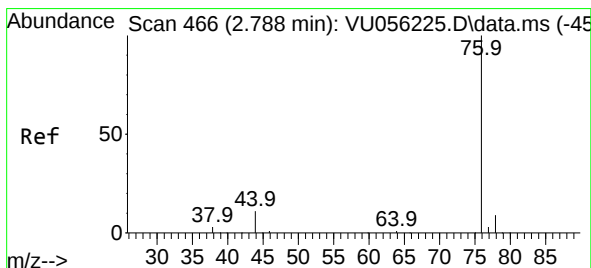
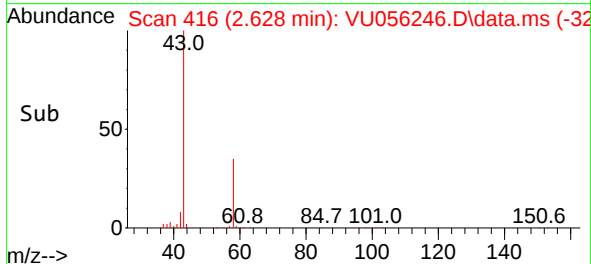
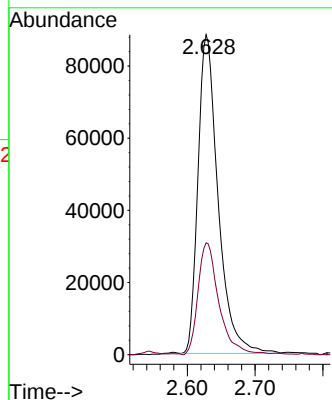
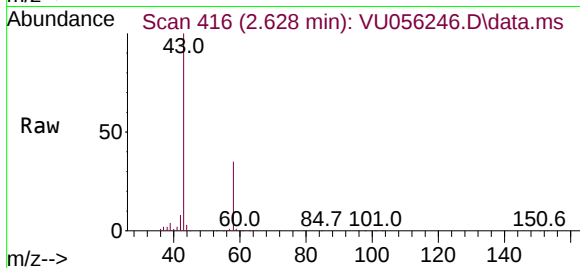
ClientSampleId :

Tgt Ion: 43 Resp: 182122

Ion Ratio Lower Upper

43 100

58 36.4 0.0 74.4



#14

Carbon disulfide

Concen: 4.755 ug/L

RT: 2.792 min Scan# 467

Delta R.T. 0.003 min

Lab File: VU056246.D

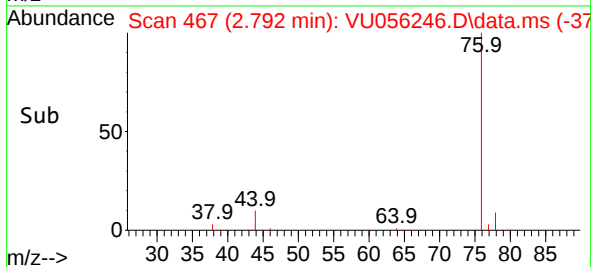
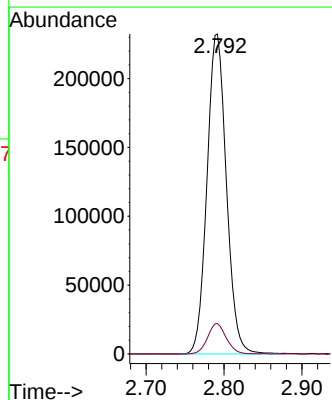
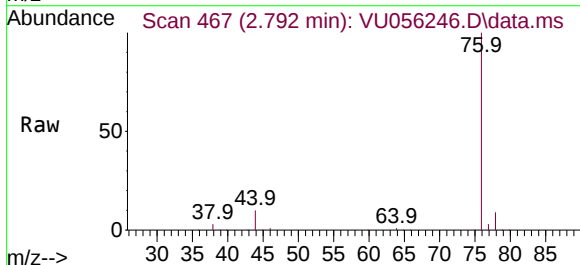
Acq: 12 Nov 2023 03:46

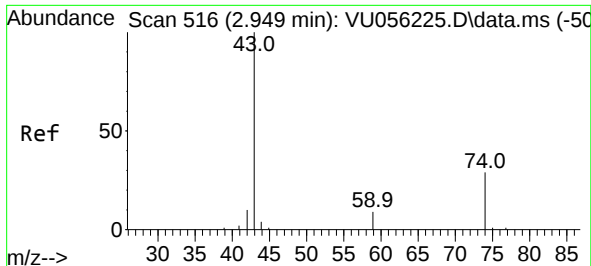
Tgt Ion: 76 Resp: 401550

Ion Ratio Lower Upper

76 100

78 9.5 7.0 10.6

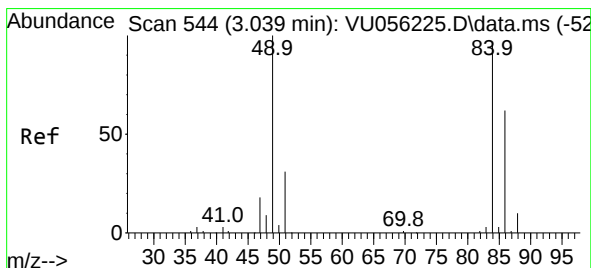
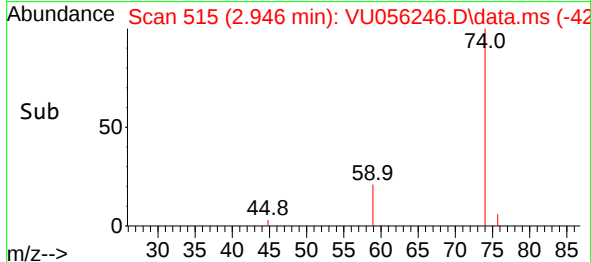
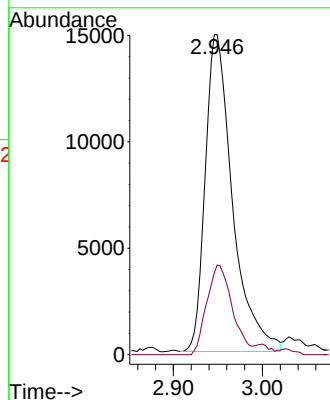
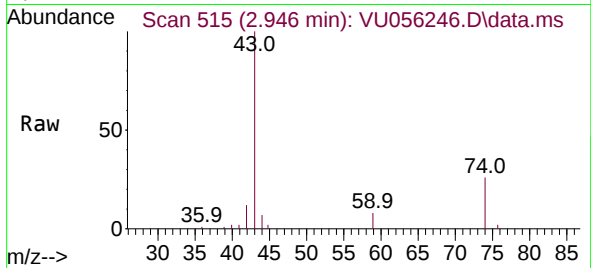




#15  
Methyl Acetate  
Concen: 3.877 ug/L  
RT: 2.946 min Scan# 516  
Delta R.T. -0.003 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

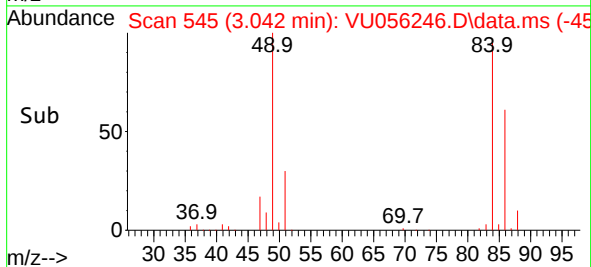
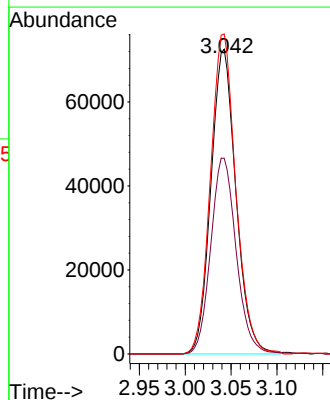
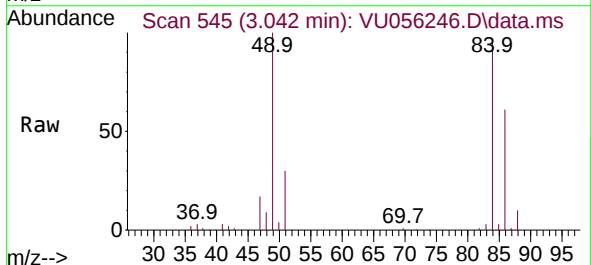
Instrument :  
MSVOA\_U  
ClientSampleId :

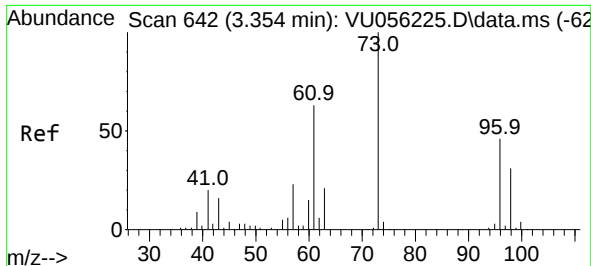
Tgt Ion: 43 Resp: 31682  
Ion Ratio Lower Upper  
43 100  
74 26.4 23.3 34.9



#16  
Methylene chloride  
Concen: 4.843 ug/L  
RT: 3.042 min Scan# 545  
Delta R.T. 0.003 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

Tgt Ion: 84 Resp: 137645  
Ion Ratio Lower Upper  
84 100  
86 64.2 44.9 83.5  
49 105.0 75.0 139.4





#17

Methyl tert-butyl Ether

Concen: 5.134 ug/L

RT: 3.354 min Scan# 64

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :

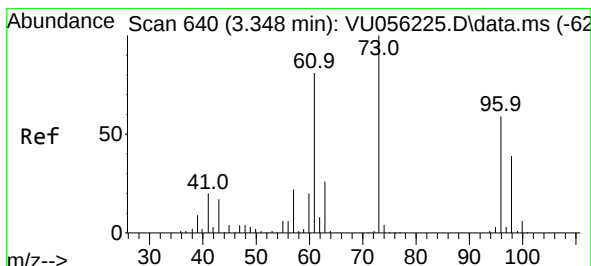
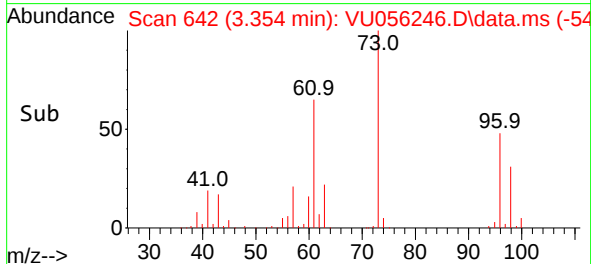
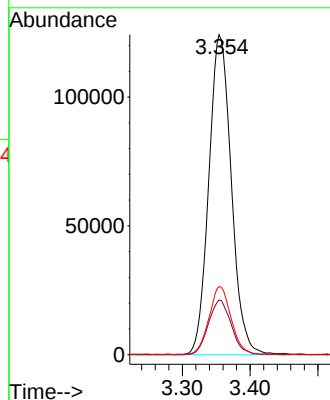
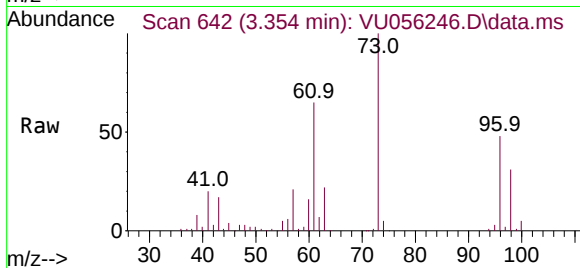
Tgt Ion: 73 Resp: 286685

Ion Ratio Lower Upper

73 100

43 17.4 13.6 20.4

57 20.9 17.3 25.9



#18

trans-1,2-Dichloroethene

Concen: 5.064 ug/L

RT: 3.348 min Scan# 640

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

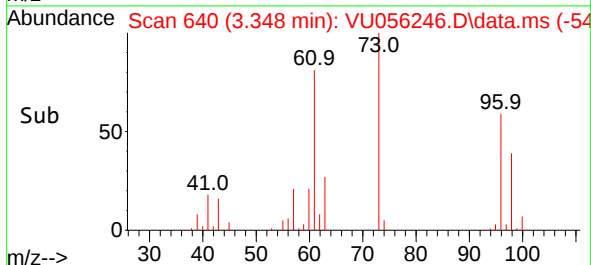
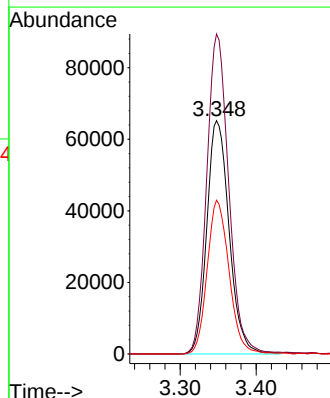
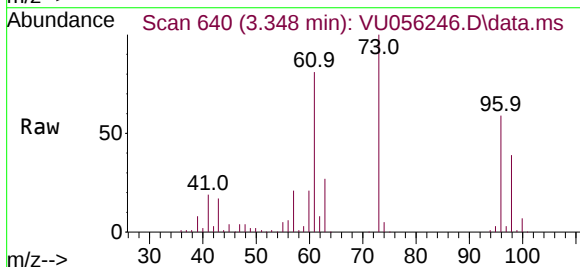
Tgt Ion: 96 Resp: 133007

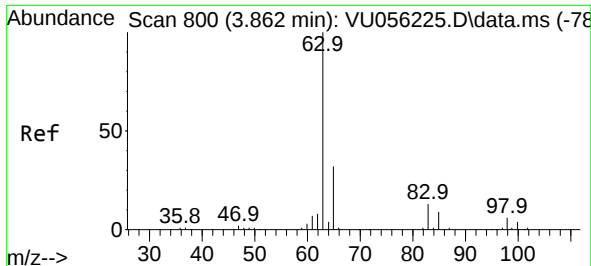
Ion Ratio Lower Upper

96 100

61 137.2 96.7 179.5

98 65.9 44.3 82.3





#19

1,1-Dichloroethane

Concen: 5.138 ug/L

RT: 3.862 min Scan# 800

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :

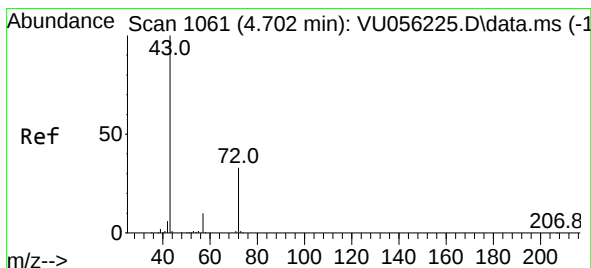
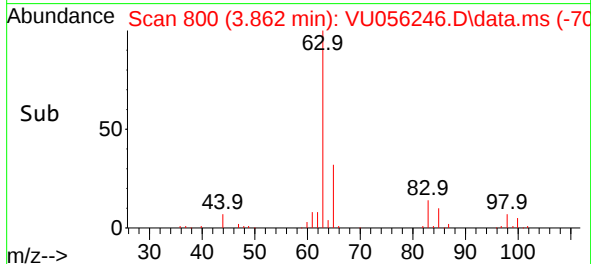
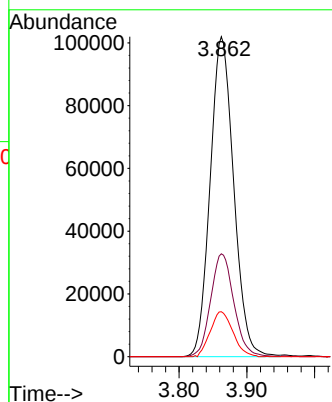
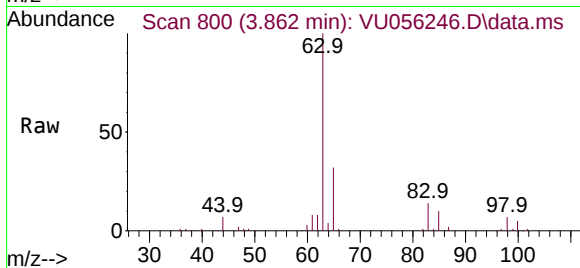
Tgt Ion: 63 Resp: 246170

Ion Ratio Lower Upper

63 100

65 32.2 20.6 38.2

83 14.0 9.6 17.8



#21

2-Butanone

Concen: 55.753 ug/L

RT: 4.698 min Scan# 1060

Delta R.T. -0.003 min

Lab File: VU056246.D

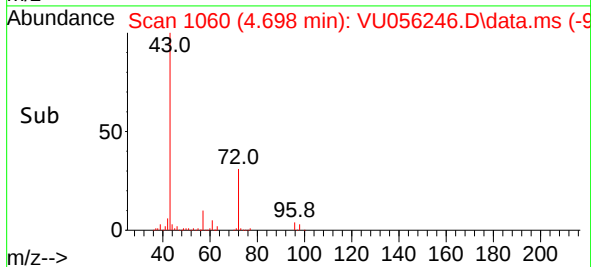
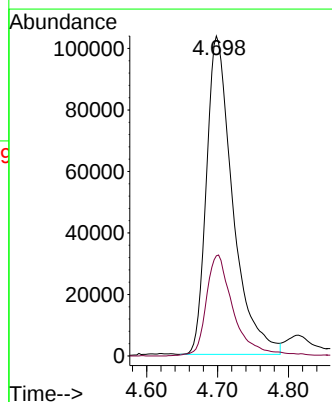
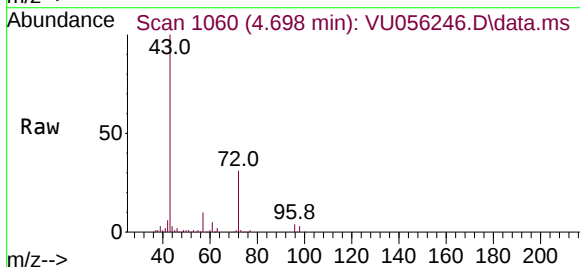
Acq: 12 Nov 2023 03:46

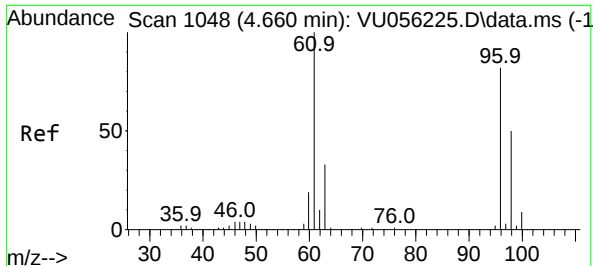
Tgt Ion: 43 Resp: 266267

Ion Ratio Lower Upper

43 100

72 32.8 15.7 47.0

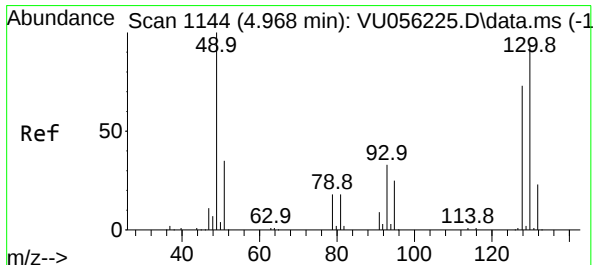
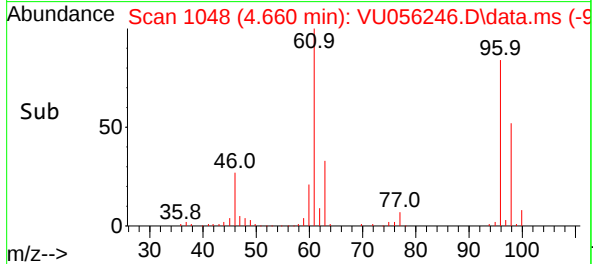
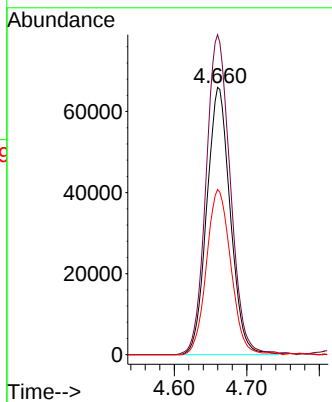
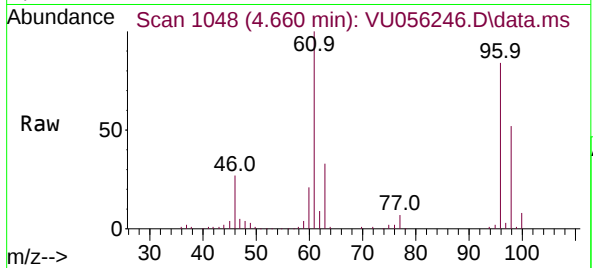




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.245 ug/L  
 RT: 4.660 min Scan# 1048  
 Delta R.T. -0.000 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

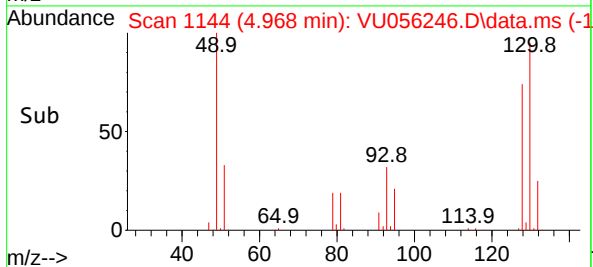
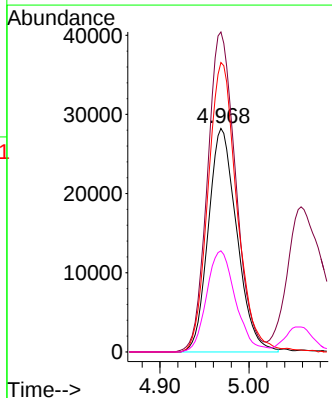
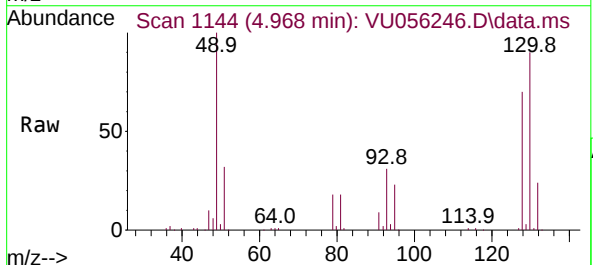
Instrument :  
 MSVOA\_U  
 ClientSampleId :

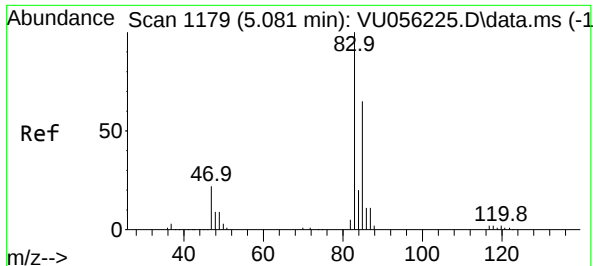
Tgt Ion: 96 Resp: 148704  
 Ion Ratio Lower Upper  
 96 100  
 61 119.7 87.8 163.2  
 98 61.8 43.5 80.7



#23  
 Bromochloromethane  
 Concen: 4.991 ug/L  
 RT: 4.968 min Scan# 1144  
 Delta R.T. -0.000 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

Tgt Ion: 128 Resp: 62783  
 Ion Ratio Lower Upper  
 128 100  
 49 143.2 103.7 192.7  
 130 129.5 91.8 170.6  
 51 45.3 38.9 58.3





#25

Chloroform

Concen: 5.053 ug/L

RT: 5.081 min Scan# 1179

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

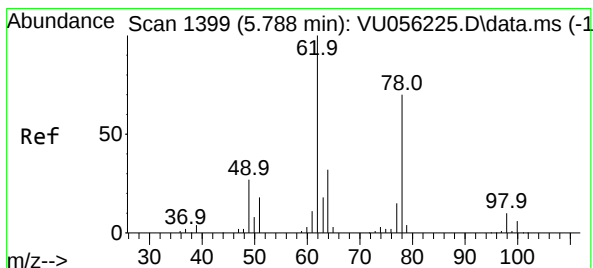
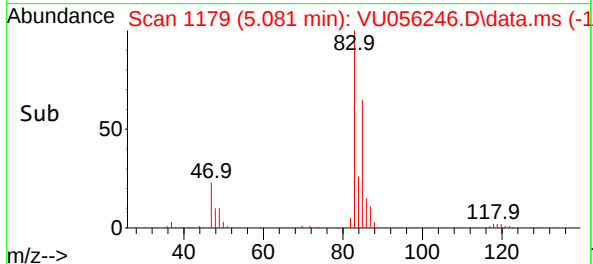
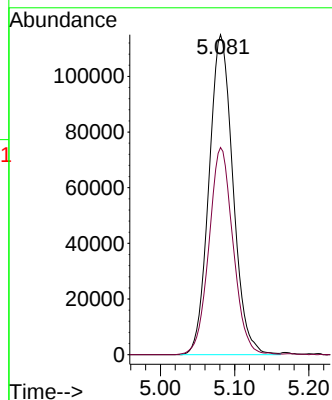
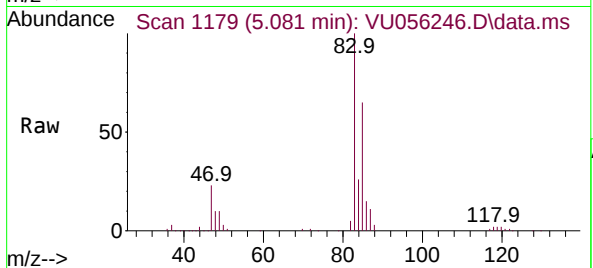
ClientSampleId :

Tgt Ion: 83 Resp: 257977

Ion Ratio Lower Upper

83 100

85 64.8 45.3 84.1



#27

1,2-Dichloroethane

Concen: 5.036 ug/L

RT: 5.788 min Scan# 1399

Delta R.T. -0.000 min

Lab File: VU056246.D

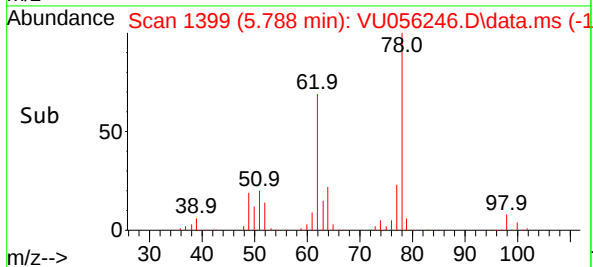
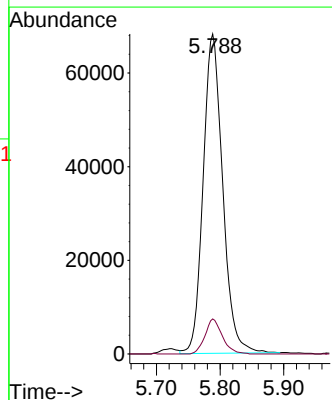
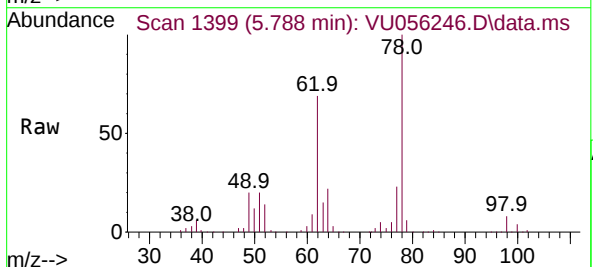
Acq: 12 Nov 2023 03:46

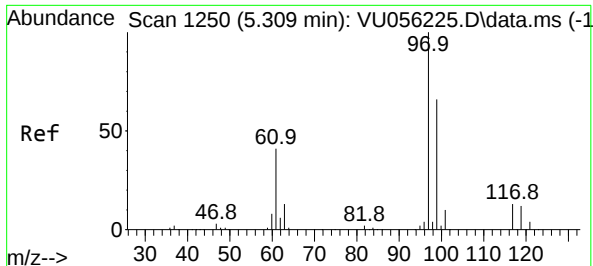
Tgt Ion: 62 Resp: 145494

Ion Ratio Lower Upper

62 100

98 11.0 7.1 10.7#





#29

1,1,1-Trichloroethane

Concen: 5.211 ug/L

RT: 5.309 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :

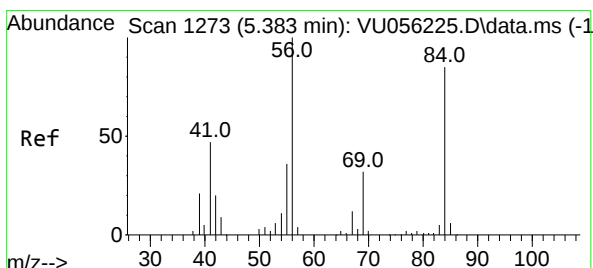
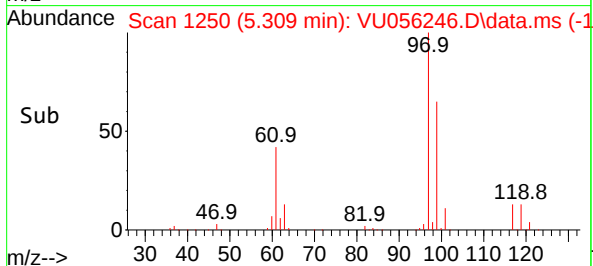
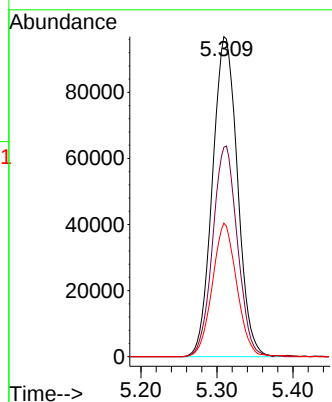
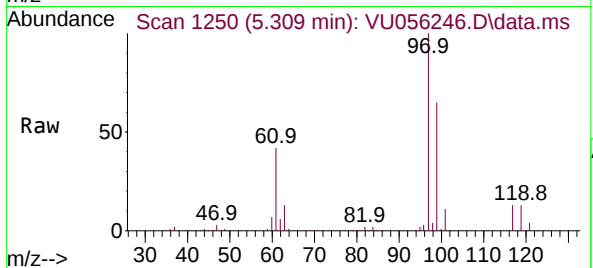
Tgt Ion: 97 Resp: 221469

Ion Ratio Lower Upper

97 100

99 64.9 52.0 78.0

61 40.7 33.4 50.0



#30

Cyclohexane

Concen: 5.196 ug/L

RT: 5.383 min Scan# 1273

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

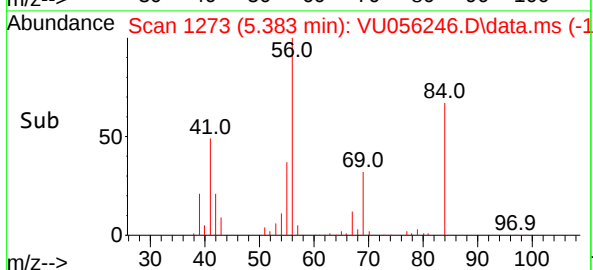
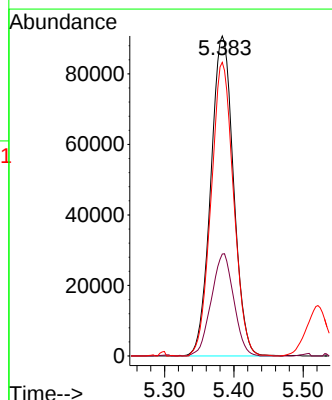
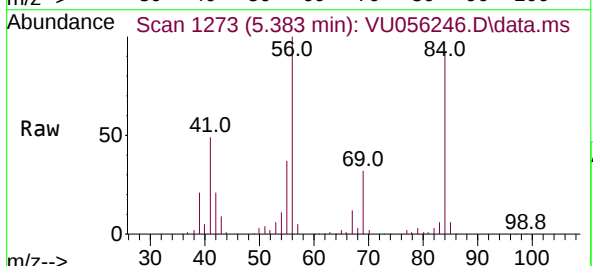
Tgt Ion: 56 Resp: 206329

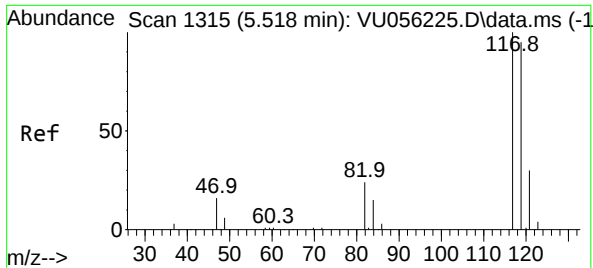
Ion Ratio Lower Upper

56 100

69 31.6 26.6 39.8

84 90.6 70.4 105.6

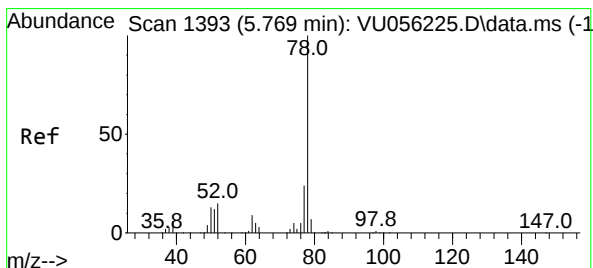
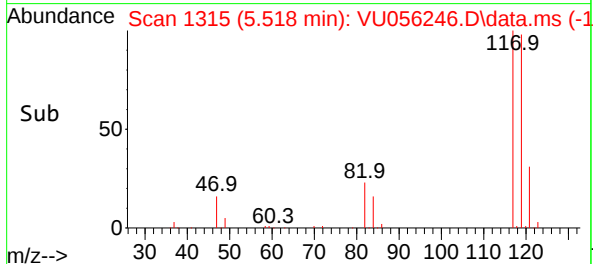
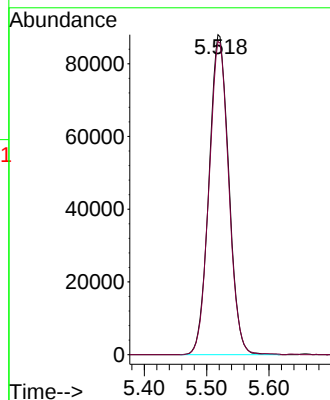
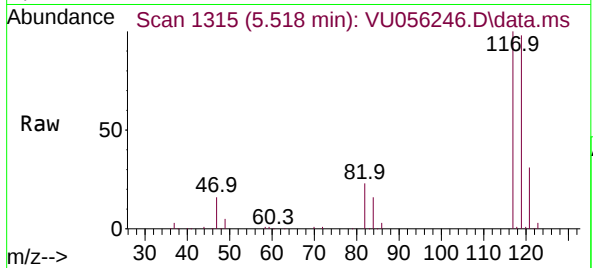




#31  
Carbon tetrachloride  
Concen: 5.145 ug/L  
RT: 5.518 min Scan# 1315  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

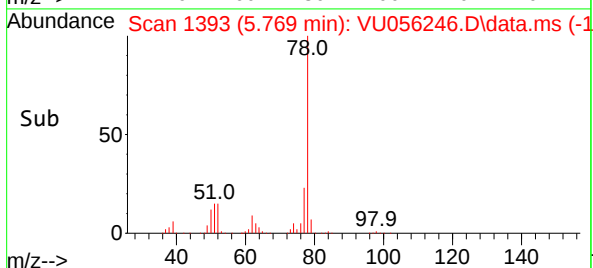
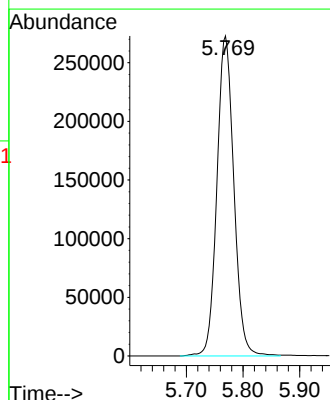
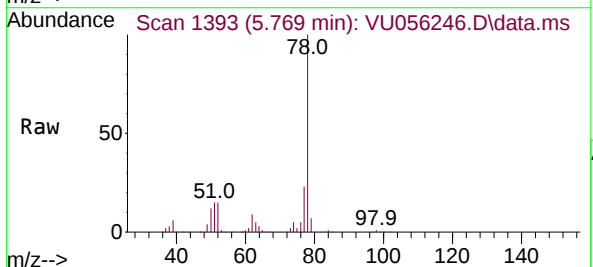
Instrument :  
MSVOA\_U  
ClientSampleId :

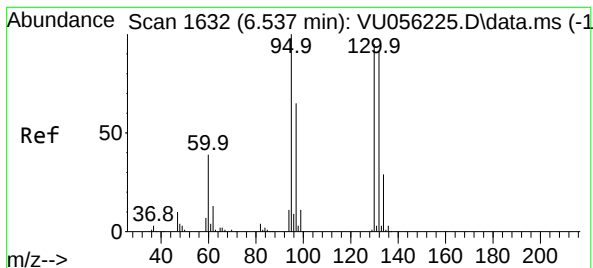
Tgt Ion:117 Resp: 194173  
Ion Ratio Lower Upper  
117 100  
119 97.4 77.2 115.8



#33  
Benzene  
Concen: 5.330 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

Tgt Ion: 78 Resp: 566208





#34

Trichloroethene

Concen: 5.155 ug/L

RT: 6.537 min Scan# 1

Delta R.T. -0.000 min

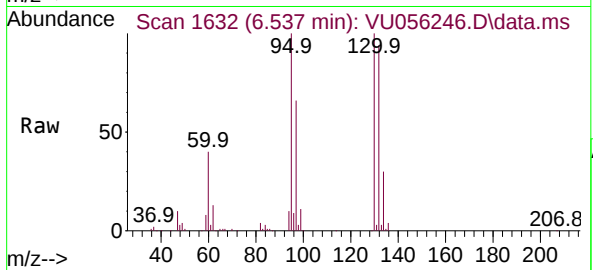
Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion: 95 Resp: 149594

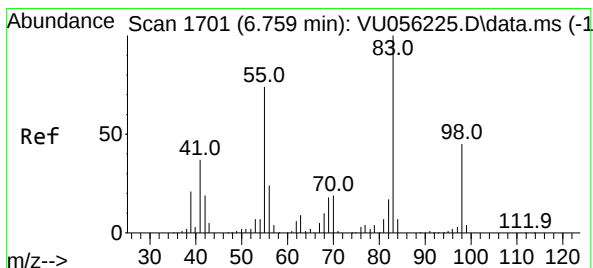
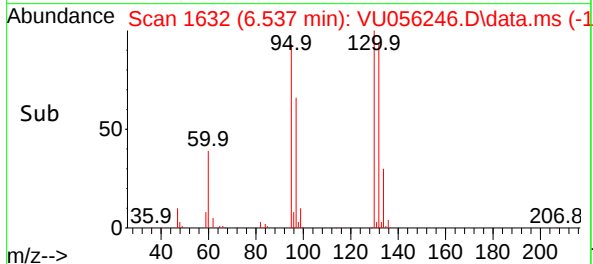
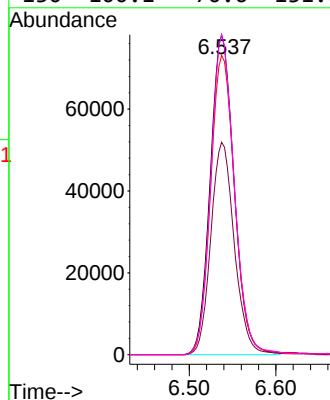
Ion Ratio Lower Upper

95 100

97 66.4 46.8 87.0

132 93.6 66.5 123.5

130 100.1 70.6 131.0



#35

Methylcyclohexane

Concen: 5.087 ug/L

RT: 6.759 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

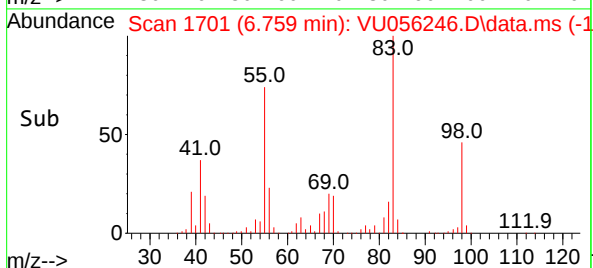
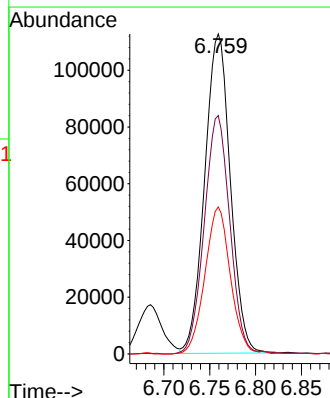
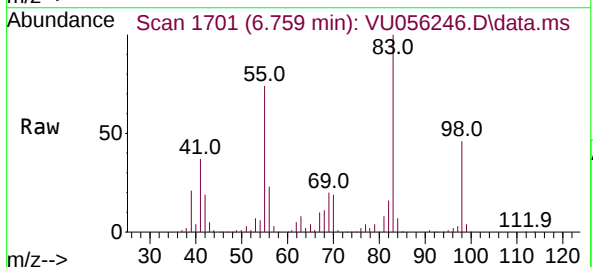
Tgt Ion: 83 Resp: 219377

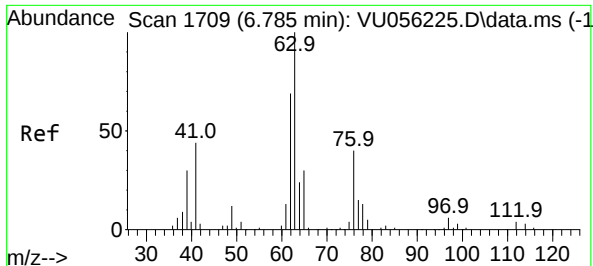
Ion Ratio Lower Upper

83 100

55 74.6 60.6 91.0

98 45.5 36.2 54.4





#37

1,2-Dichloropropane

Concen: 5.258 ug/L

RT: 6.785 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

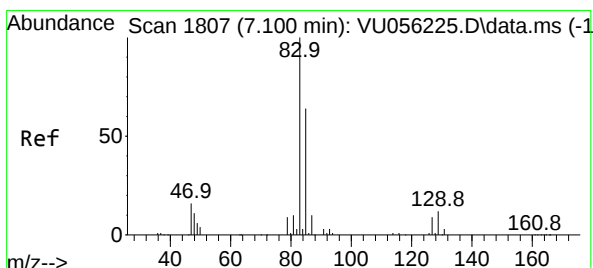
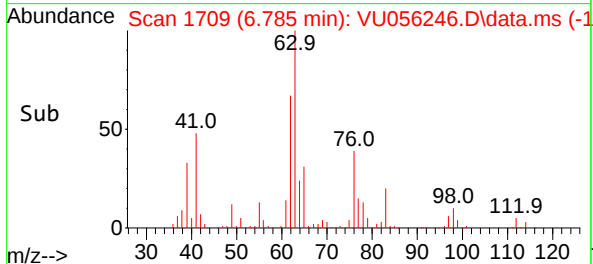
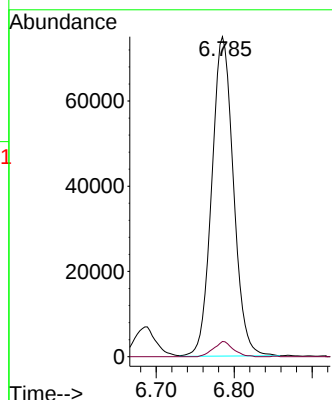
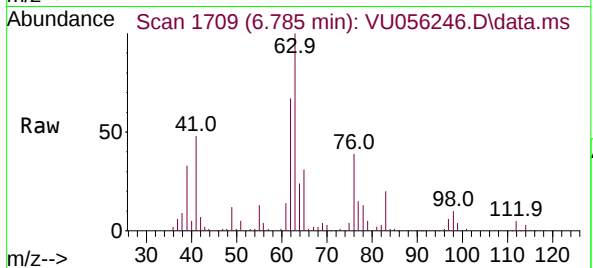
ClientSampleId :

Tgt Ion: 63 Resp: 145245

Ion Ratio Lower Upper

63 100

112 4.3 3.4 5.2



#38

Bromodichloromethane

Concen: 5.108 ug/L

RT: 7.100 min Scan# 1807

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

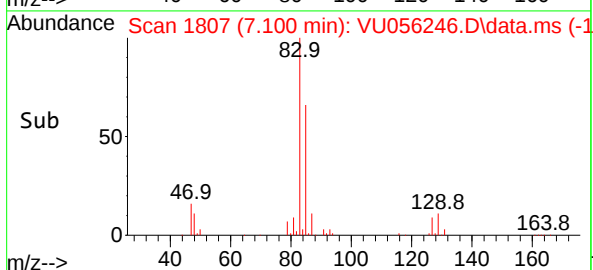
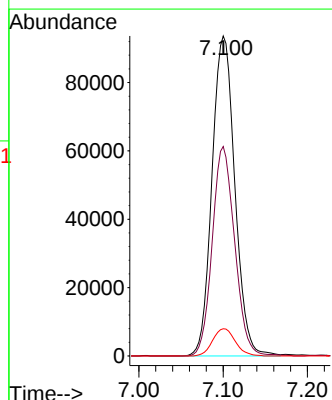
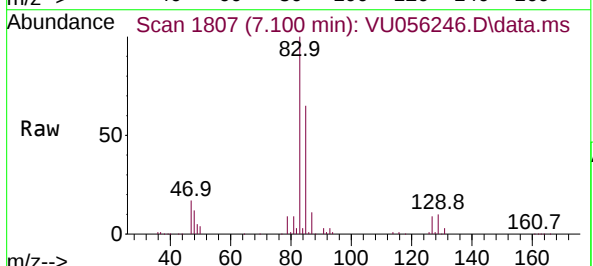
Tgt Ion: 83 Resp: 176206

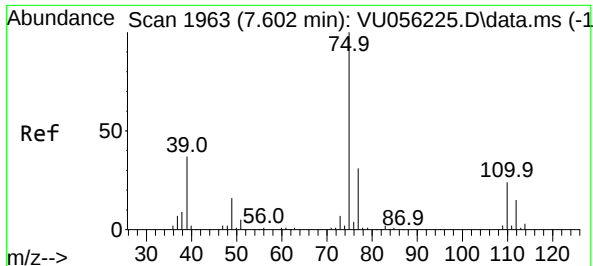
Ion Ratio Lower Upper

83 100

85 65.4 46.6 86.6

127 8.5 7.3 10.9





#39

cis-1,3-Dichloropropene

Concen: 4.990 ug/L

RT: 7.602 min Scan# 1963

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

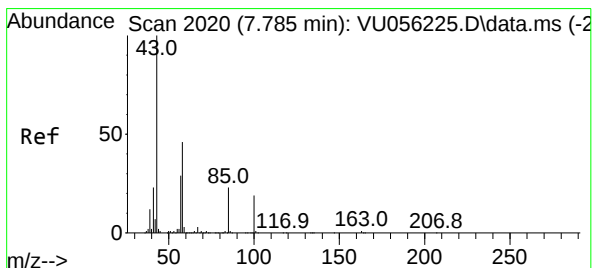
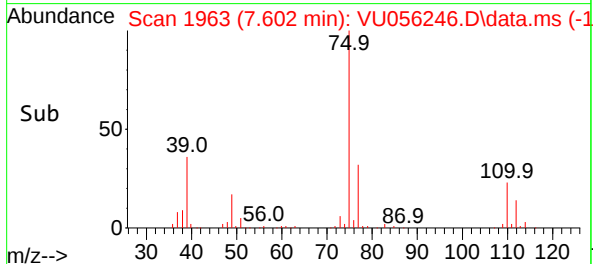
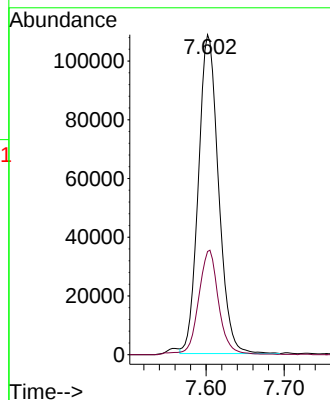
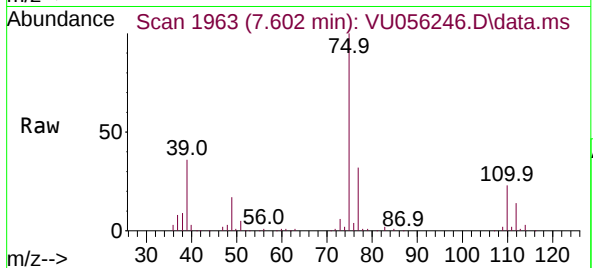
ClientSampleId :

Tgt Ion: 75 Resp: 194577

Ion Ratio Lower Upper

75 100

77 32.2 21.7 40.3



#40

4-Methyl-2-pentanone

Concen: 54.626 ug/L

RT: 7.785 min Scan# 2020

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

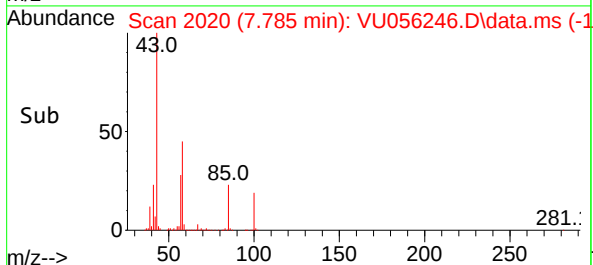
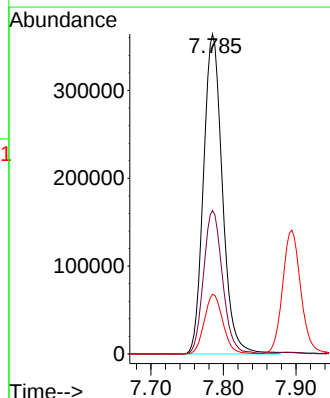
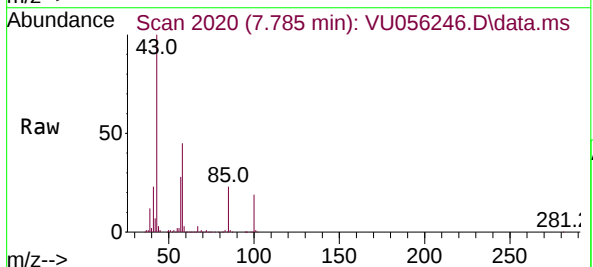
Tgt Ion: 43 Resp: 660082

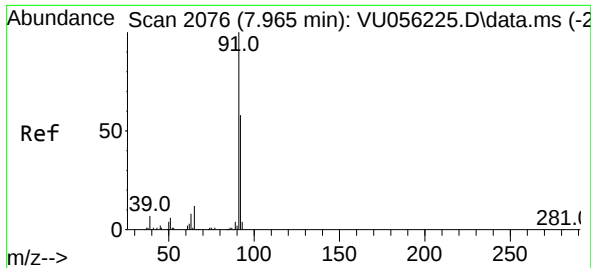
Ion Ratio Lower Upper

43 100

58 45.2 36.0 54.0

100 18.4 14.2 21.4





#42

Toluene

Concen: 5.405 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

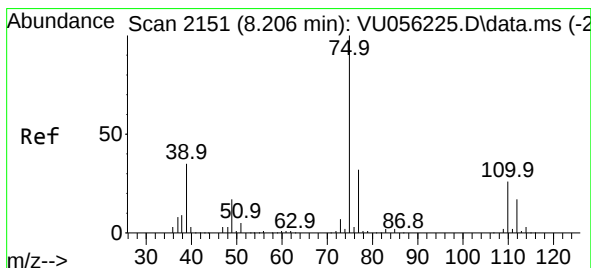
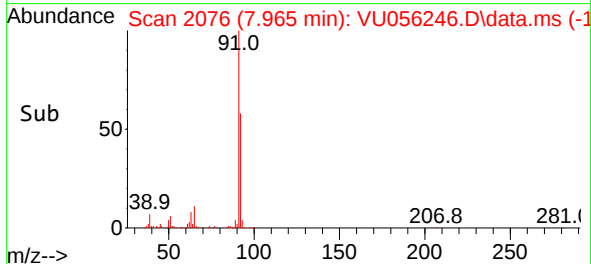
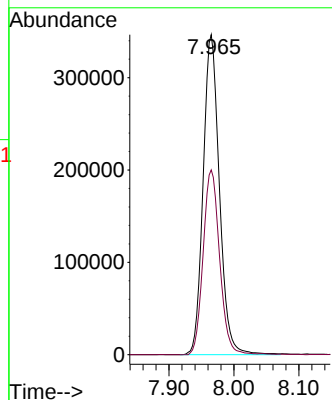
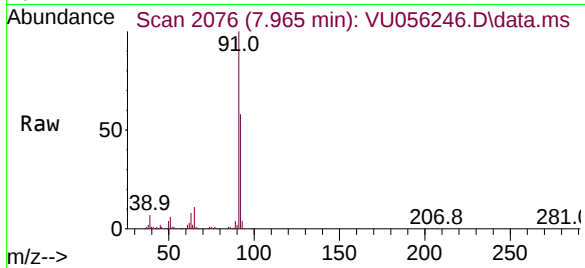
ClientSampleId :

Tgt Ion: 91 Resp: 605322

Ion Ratio Lower Upper

91 100

92 57.8 40.9 75.9



#44

trans-1,3-Dichloropropene

Concen: 5.134 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. -0.000 min

Lab File: VU056246.D

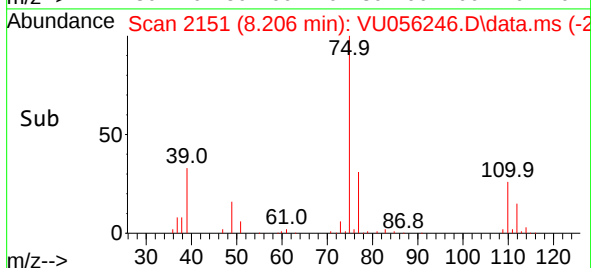
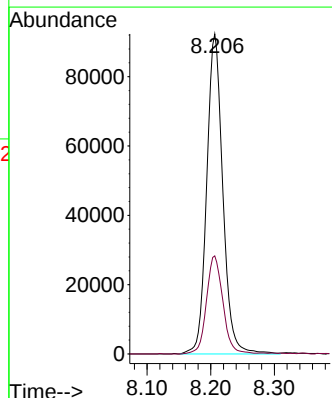
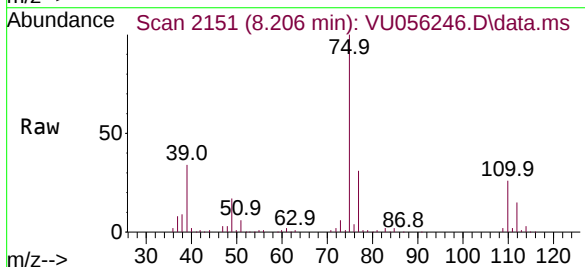
Acq: 12 Nov 2023 03:46

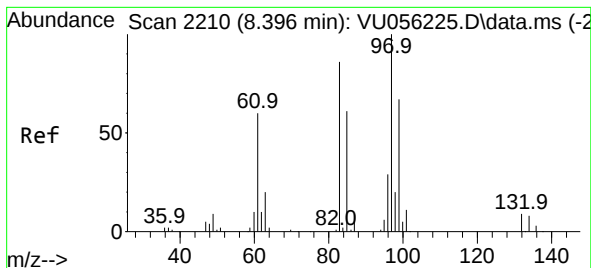
Tgt Ion: 75 Resp: 162065

Ion Ratio Lower Upper

75 100

77 30.6 21.7 40.3





#45

1,1,2-Trichloroethane

Concen: 5.257 ug/L

RT: 8.393 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 97 Resp: 99274

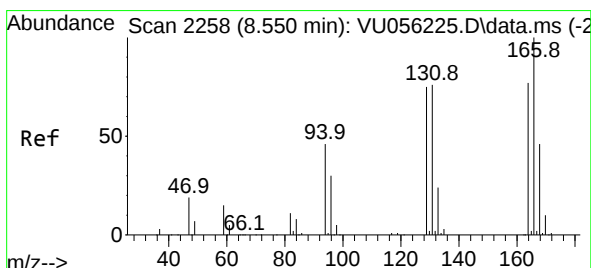
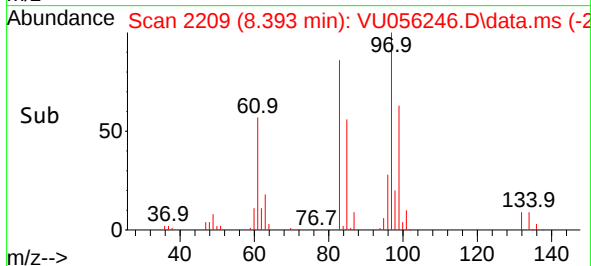
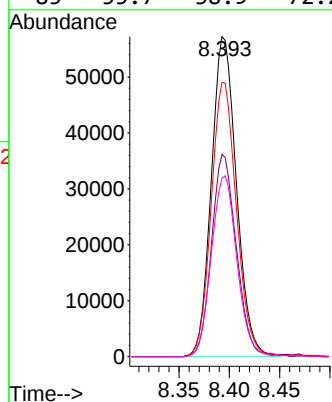
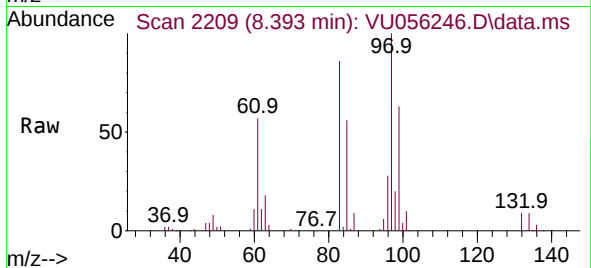
Ion Ratio Lower Upper

97 100

99 63.2 44.7 82.9

83 85.8 59.4 110.2

85 55.7 38.9 72.2



#47

Tetrachloroethene

Concen: 5.296 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.003 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Tgt Ion: 164 Resp: 115348

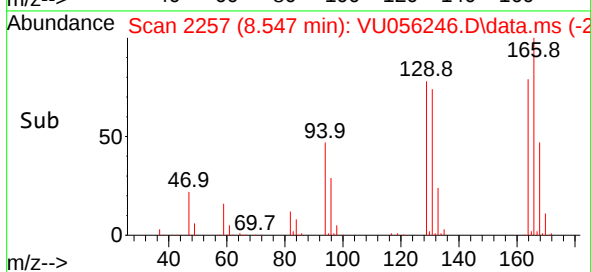
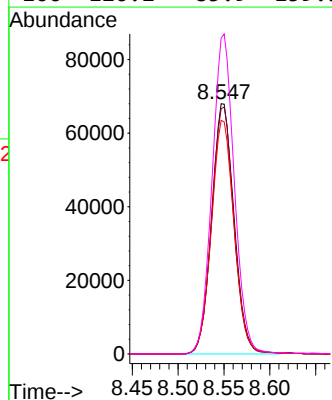
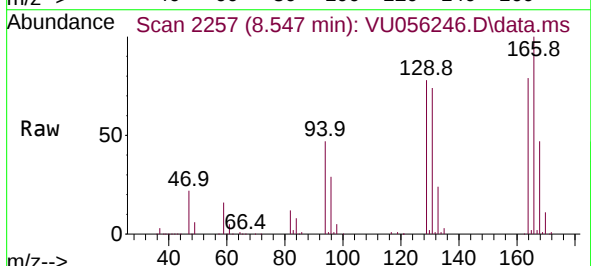
Ion Ratio Lower Upper

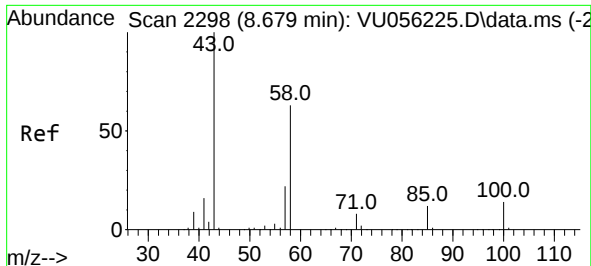
164 100

129 97.9 66.6 123.8

131 93.4 67.8 126.0

166 126.2 85.9 159.5

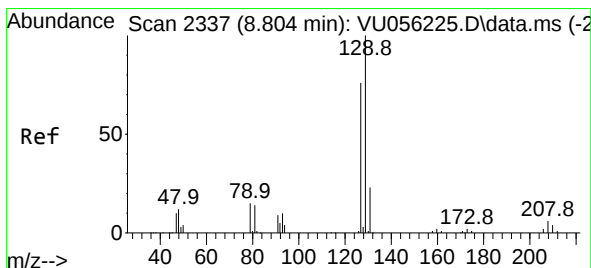
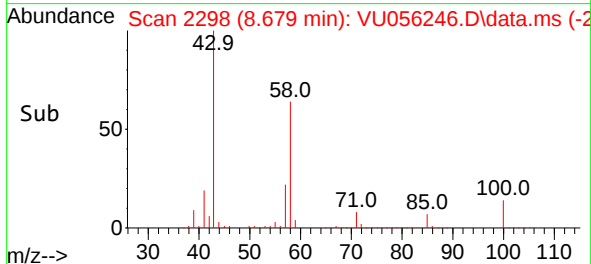
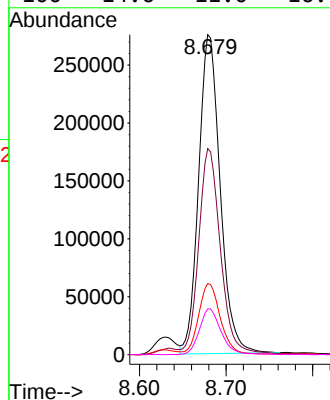
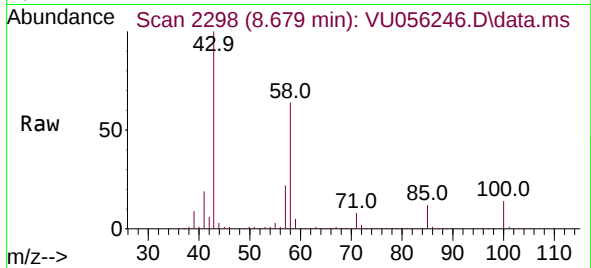




#48  
2-Hexanone  
Concen: 54.220 ug/L  
RT: 8.679 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

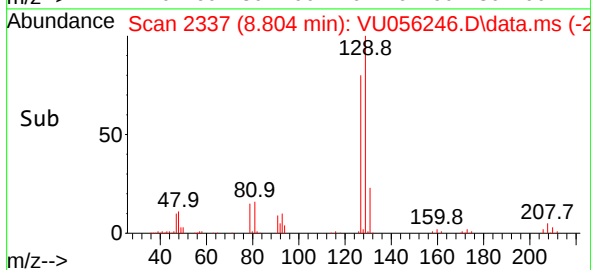
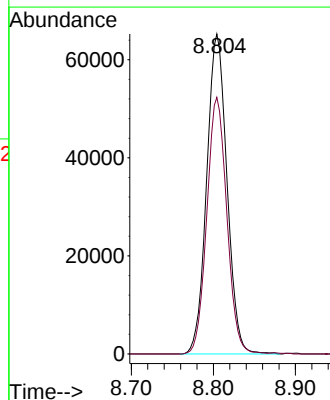
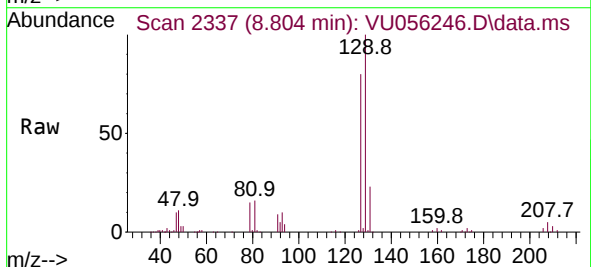
Instrument :  
MSVOA\_U  
ClientSampleId :

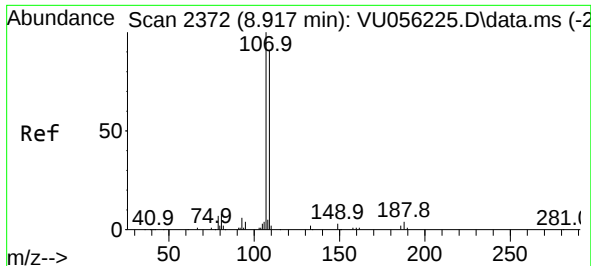
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 477024 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 64.4  | 52.0  | 78.0   |
| 57       | 22.3  | 17.4  | 26.2   |
| 100      | 14.6  | 11.0  | 16.6   |



#49  
Dibromochloromethane  
Concen: 5.169 ug/L  
RT: 8.804 min Scan# 2337  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 112005 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 80.2  | 55.4  | 102.8  |





#50

1,2-Dibromoethane

Concen: 5.391 ug/L

RT: 8.920 min Scan# 21

Delta R.T. 0.003 min

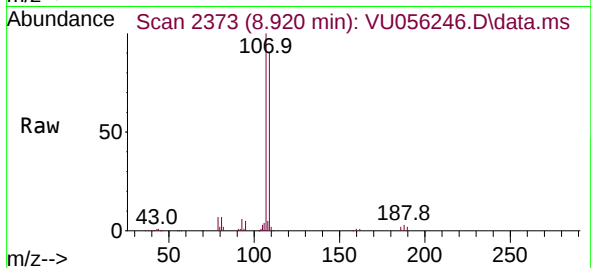
Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :



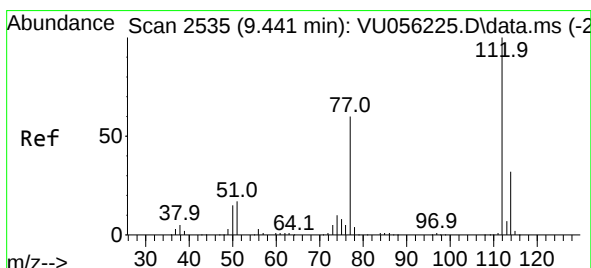
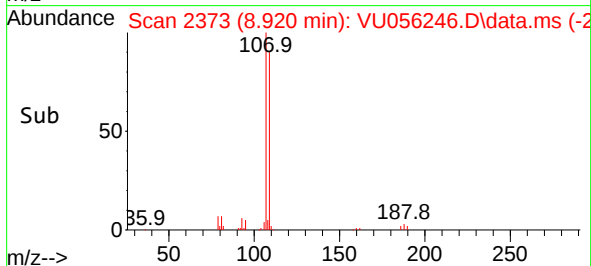
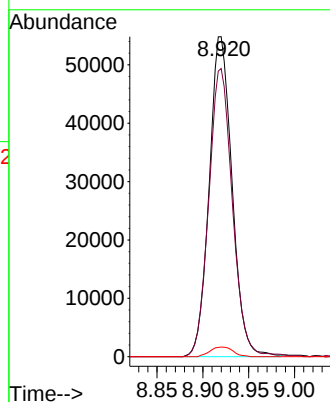
Tgt Ion:107 Resp: 95128

Ion Ratio Lower Upper

107 100

109 90.1 66.9 124.3

188 3.0 2.5 3.7



#51

Chlorobenzene

Concen: 5.289 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

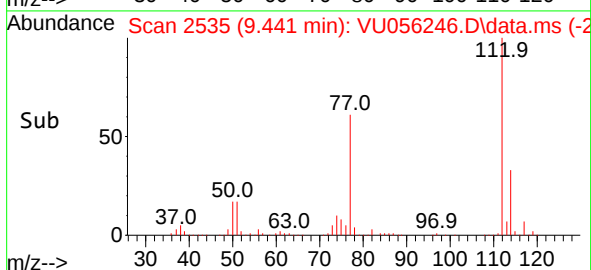
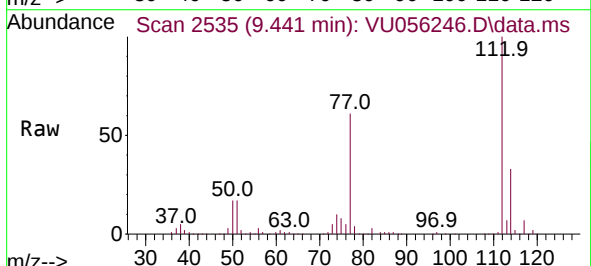
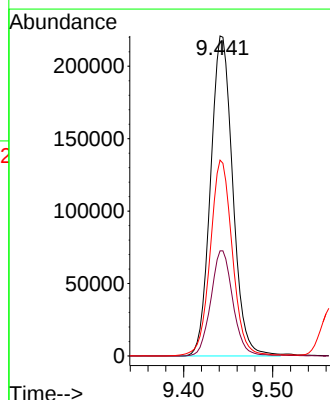
Tgt Ion:112 Resp: 382155

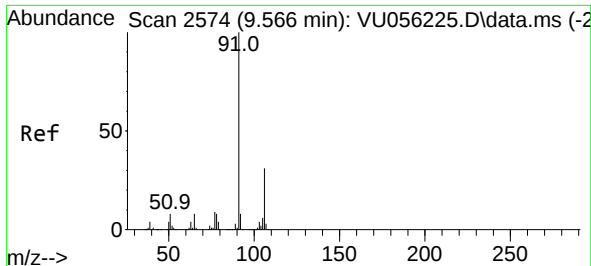
Ion Ratio Lower Upper

112 100

114 32.8 21.8 40.4

77 61.2 48.2 72.4

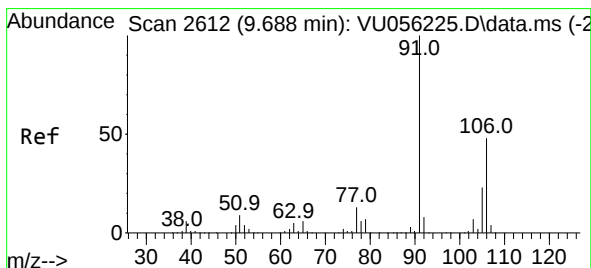
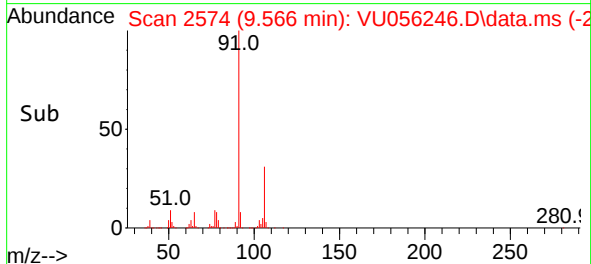
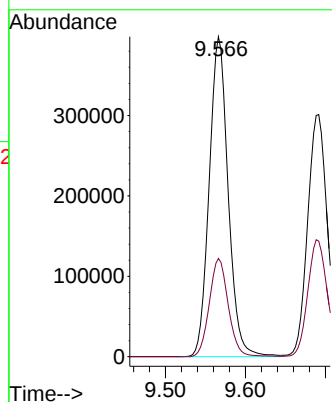
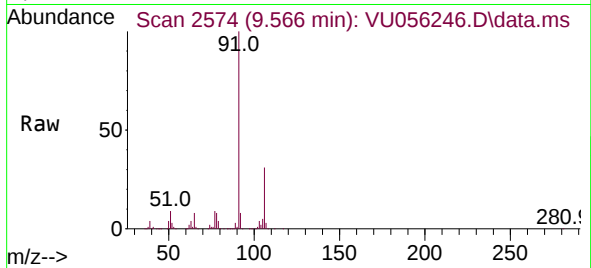




#52  
Ethylbenzene  
Concen: 5.378 ug/L  
RT: 9.566 min Scan# 2574  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

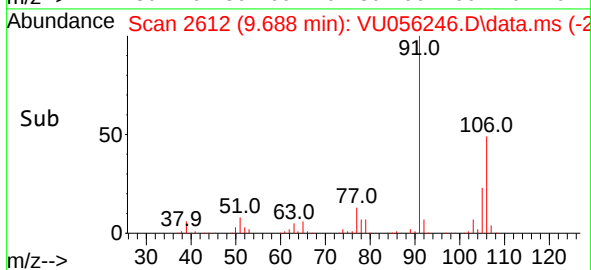
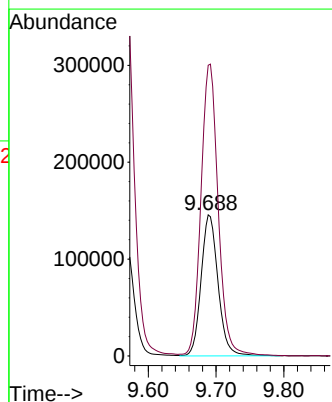
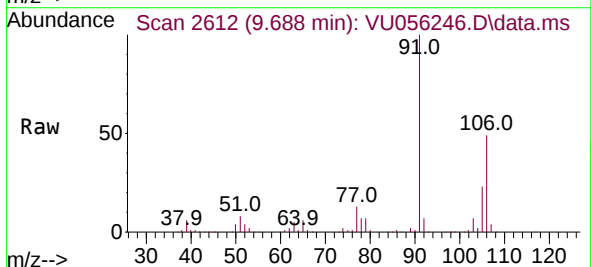
Instrument :  
MSVOA\_U  
ClientSampleId :

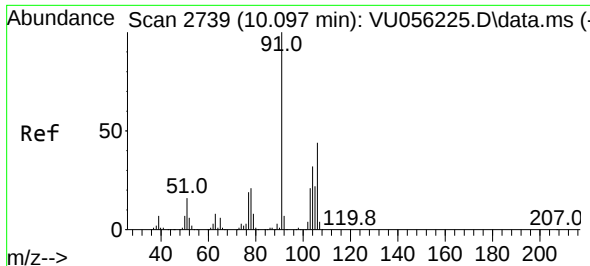
Tgt Ion: 91 Resp: 656373  
Ion Ratio Lower Upper  
91 100  
106 30.7 21.2 39.4



#53  
m,p-Xylene  
Concen: 5.417 ug/L  
RT: 9.688 min Scan# 2612  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

Tgt Ion: 106 Resp: 251426  
Ion Ratio Lower Upper  
106 100  
91 206.2 144.9 269.1

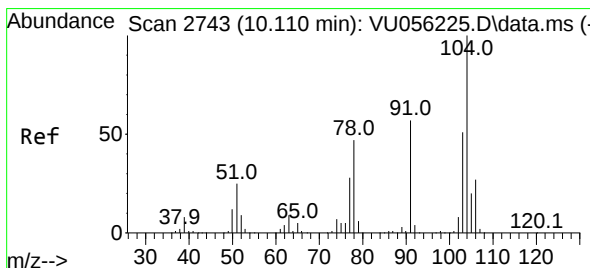
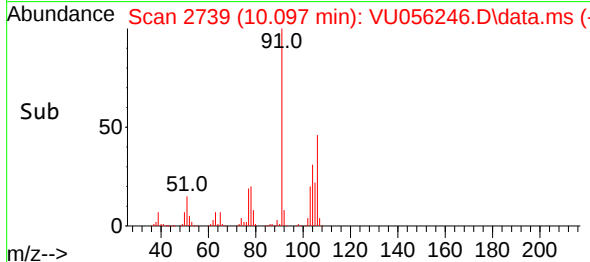
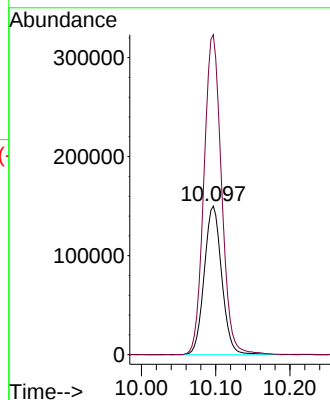
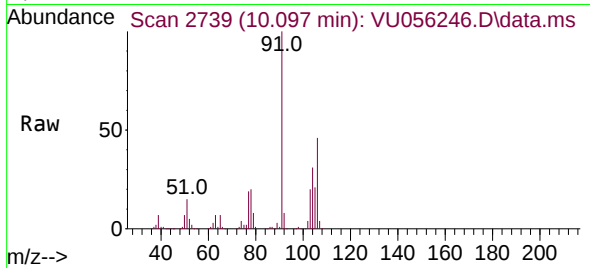




#54  
o-Xylene  
Concen: 5.524 ug/L  
RT: 10.097 min Scan# 2739  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

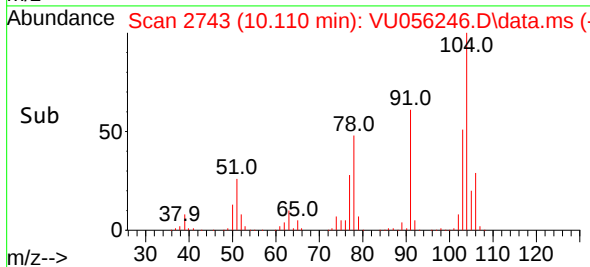
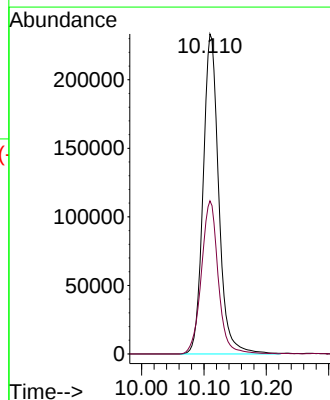
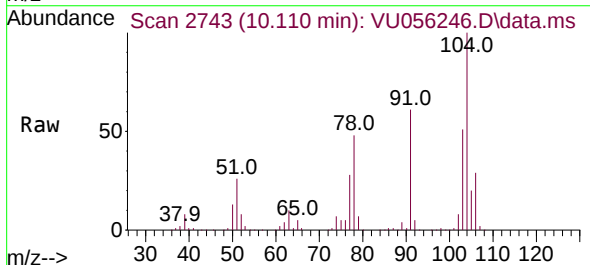
Instrument :  
MSVOA\_U  
ClientSampleId :

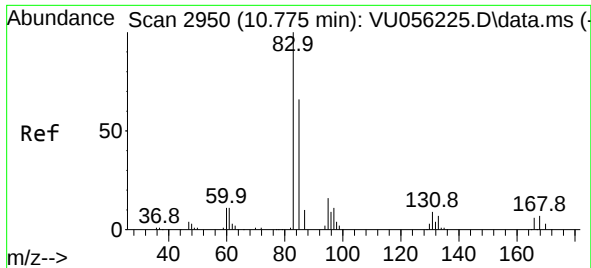
Tgt Ion:106 Resp: 245778  
Ion Ratio Lower Upper  
106 100  
91 215.3 158.2 293.8



#55  
Styrene  
Concen: 5.590 ug/L  
RT: 10.110 min Scan# 2743  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

Tgt Ion:104 Resp: 406867  
Ion Ratio Lower Upper  
104 100  
78 47.8 33.5 62.3





#57

1,1,2,2-Tetrachloroethane

Concen: 5.428 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :

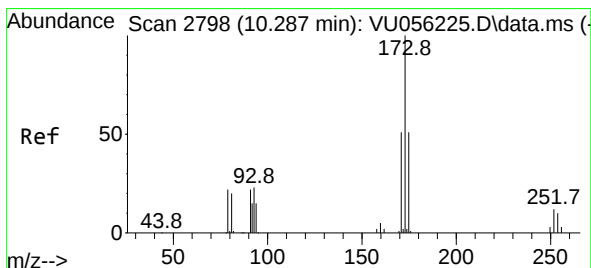
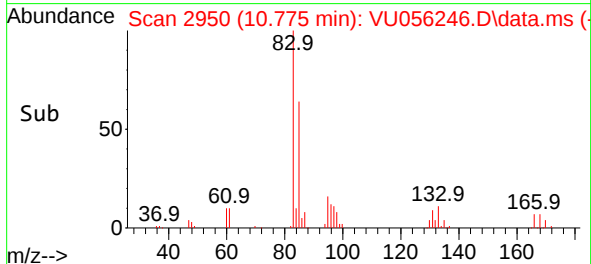
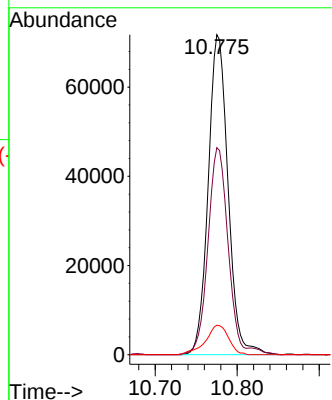
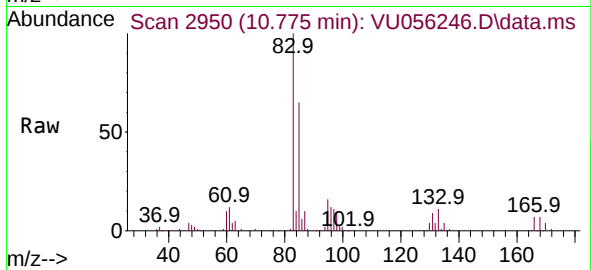
Tgt Ion: 83 Resp: 120468

Ion Ratio Lower Upper

83 100

85 64.7 44.0 81.8

131 9.2 7.4 11.2



#59

Bromoform

Concen: 4.836 ug/L

RT: 10.286 min Scan# 2798

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

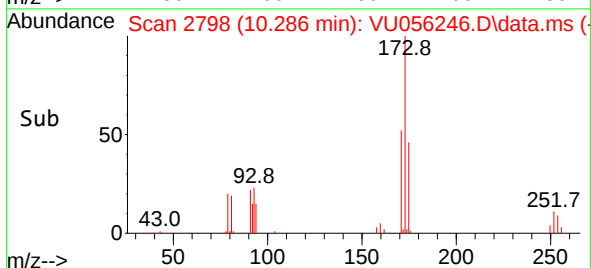
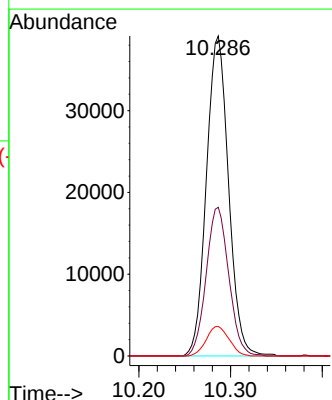
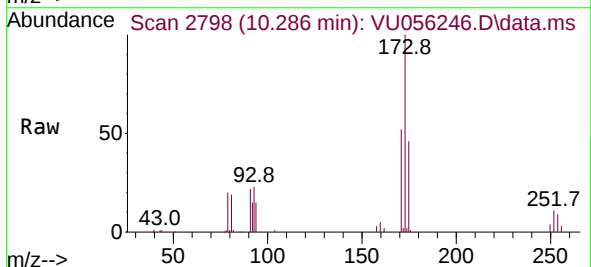
Tgt Ion:173 Resp: 65600

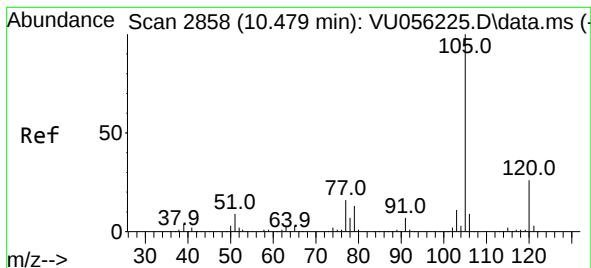
Ion Ratio Lower Upper

173 100

175 47.3 39.0 58.4

254 9.5 8.2 12.2





#60

Isopropylbenzene

Concen: 5.168 ug/L

RT: 10.479 min Scan# 2858

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :

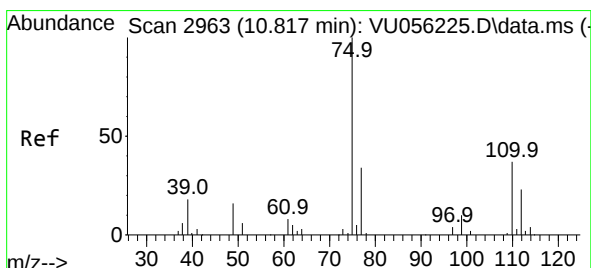
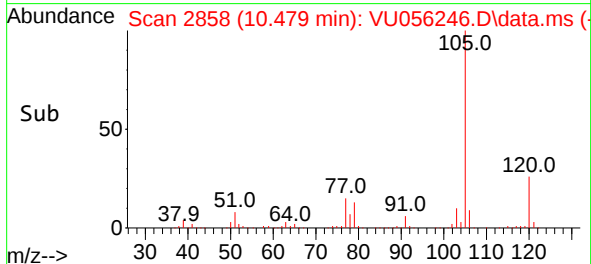
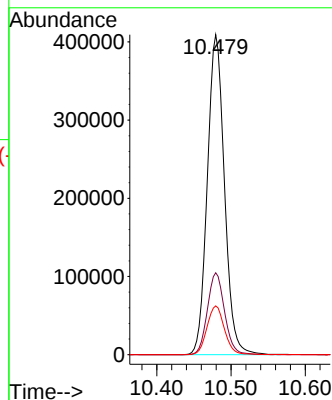
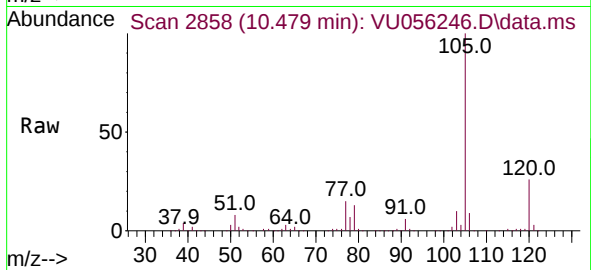
Tgt Ion:105 Resp: 654411

Ion Ratio Lower Upper

105 100

120 25.7 20.6 30.8

77 15.6 12.6 19.0



#61

1,2,3-Trichloropropane

Concen: 4.864 ug/L

RT: 10.817 min Scan# 2963

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

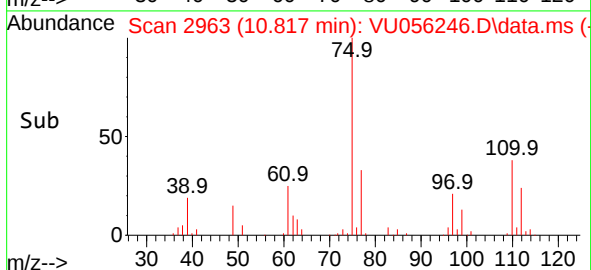
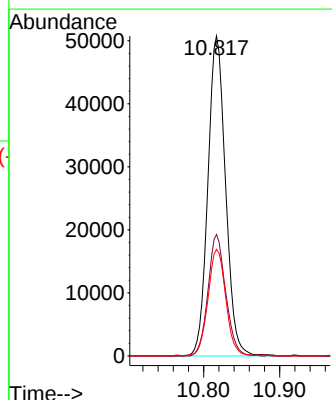
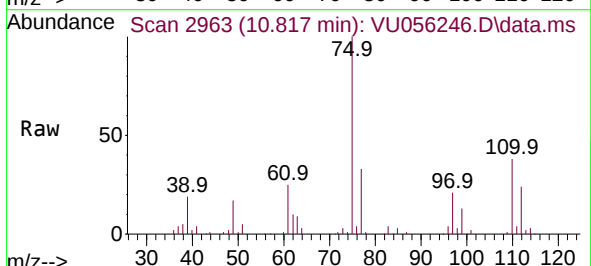
Tgt Ion: 75 Resp: 81997

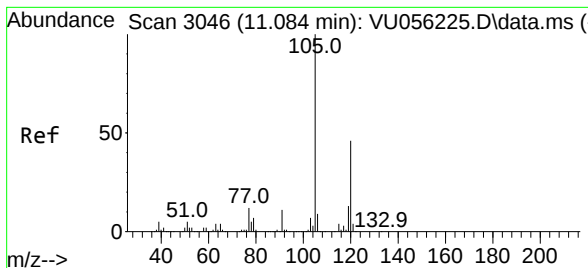
Ion Ratio Lower Upper

75 100

110 37.9 29.7 44.5

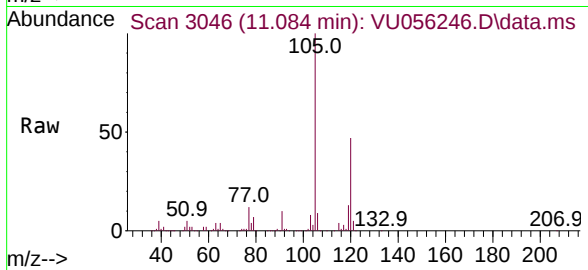
77 33.5 25.5 38.3



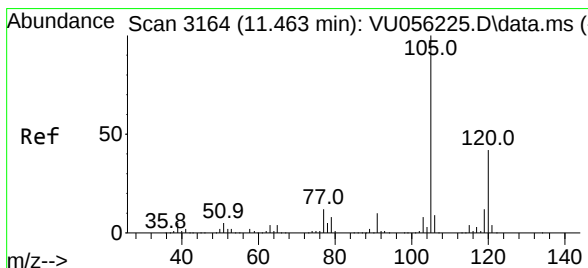
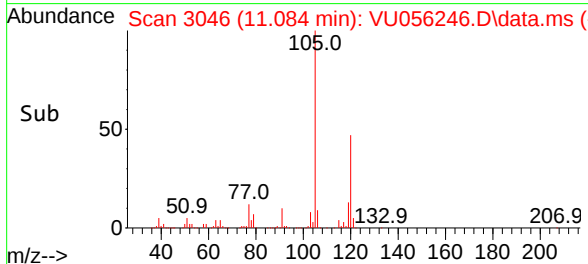
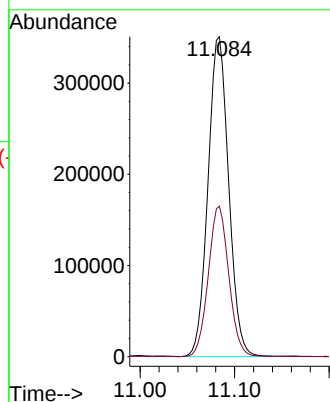


#62  
 1,3,5-Trimethylbenzene  
 Concen: 5.181 ug/L  
 RT: 11.084 min Scan# 3046  
 Delta R.T. -0.000 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :

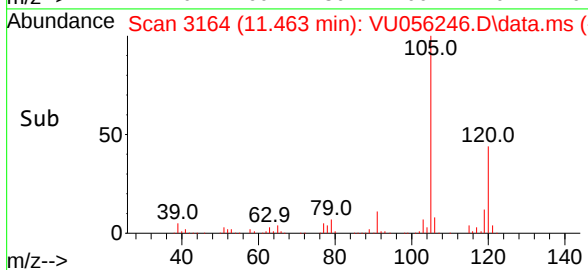
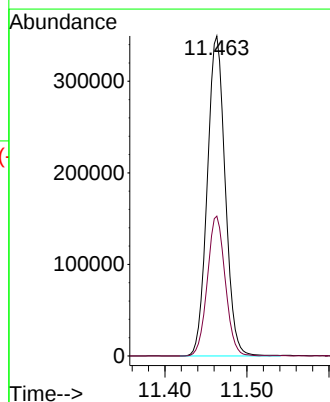
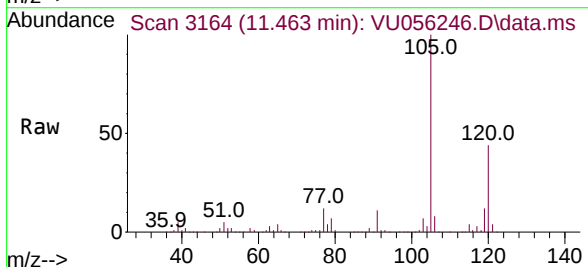


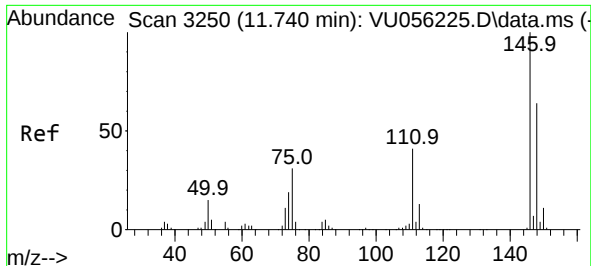
Tgt Ion:105 Resp: 532096  
 Ion Ratio Lower Upper  
 105 100  
 120 46.8 37.9 56.9



#63  
 1,2,4-Trimethylbenzene  
 Concen: 5.276 ug/L  
 RT: 11.463 min Scan# 3164  
 Delta R.T. -0.000 min  
 Lab File: VU056246.D  
 Acq: 12 Nov 2023 03:46

Tgt Ion:105 Resp: 531449  
 Ion Ratio Lower Upper  
 105 100  
 120 43.6 35.4 53.0

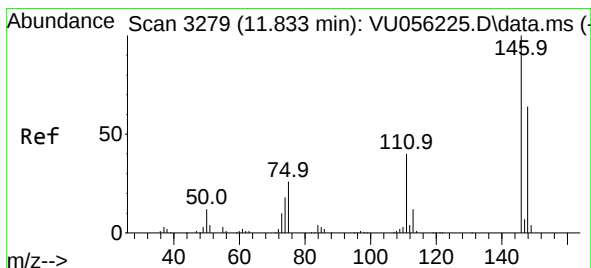
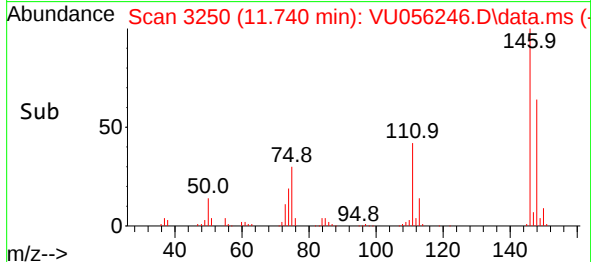
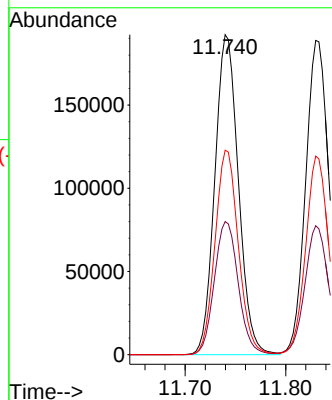
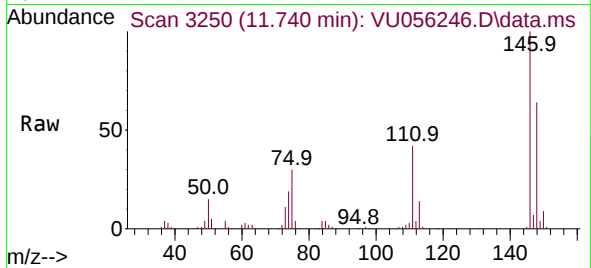




#64  
1,3-Dichlorobenzene  
Concen: 5.224 ug/L  
RT: 11.740 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

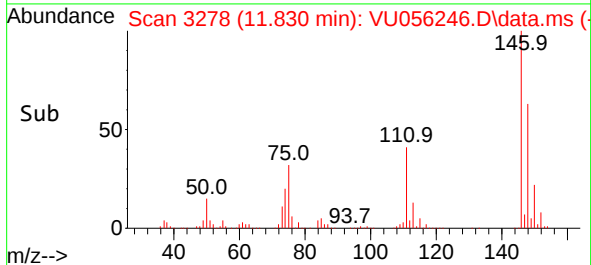
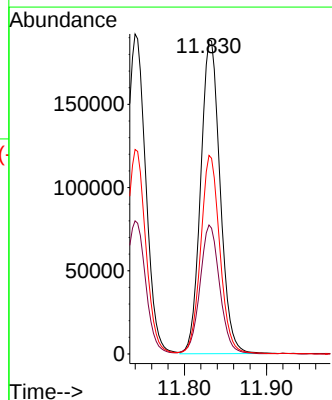
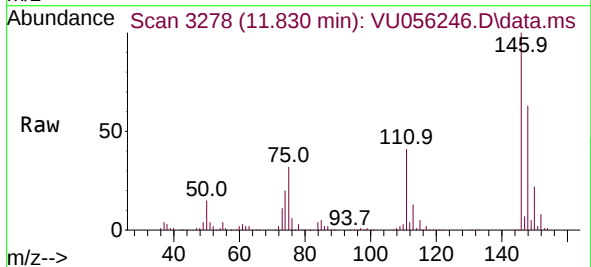
Instrument :  
MSVOA\_U  
ClientSampleId :

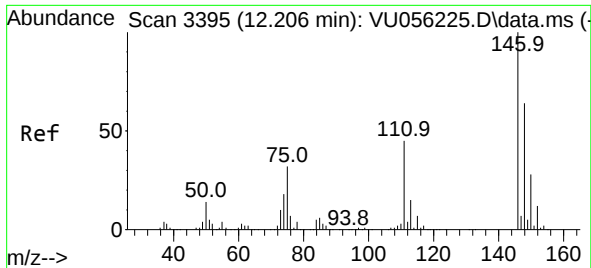
Tgt Ion:146 Resp: 313319  
Ion Ratio Lower Upper  
146 100  
111 41.6 29.7 55.1  
148 63.9 44.7 83.1



#65  
1,4-Dichlorobenzene  
Concen: 5.230 ug/L  
RT: 11.830 min Scan# 3278  
Delta R.T. -0.003 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

Tgt Ion:146 Resp: 310167  
Ion Ratio Lower Upper  
146 100  
111 41.0 29.0 53.8  
148 63.2 43.9 81.5





#67

1,2-Dichlorobenzene

Concen: 5.150 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :

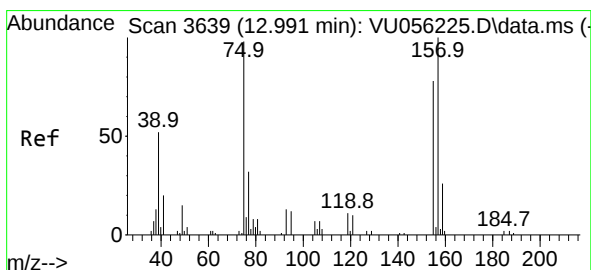
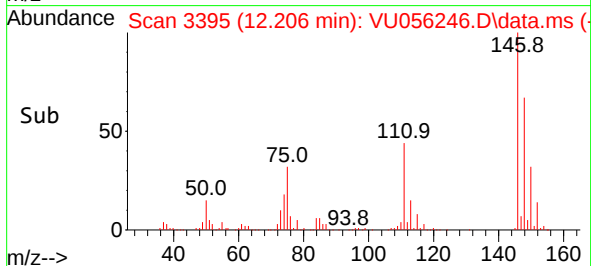
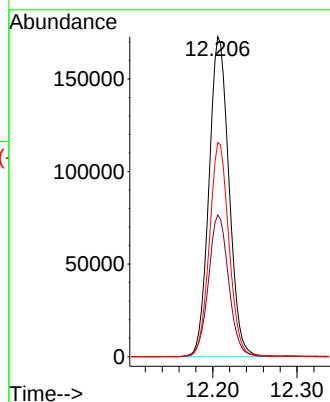
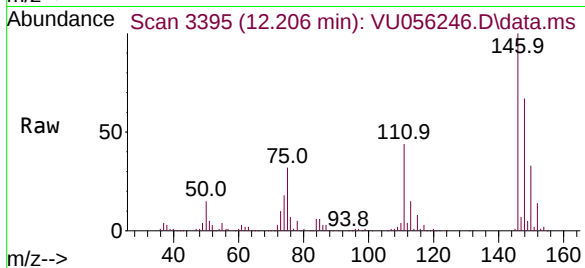
Tgt Ion:146 Resp: 284604

Ion Ratio Lower Upper

146 100

111 44.3 35.2 52.8

148 66.9 50.4 75.6



#68

1,2-Dibromo-3-chloropropane

Concen: 4.693 ug/L

RT: 12.991 min Scan# 3639

Delta R.T. -0.000 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

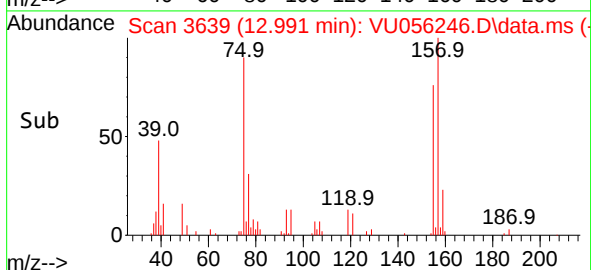
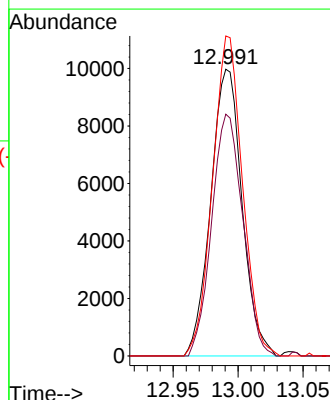
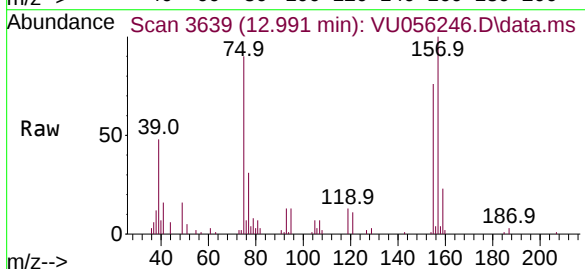
Tgt Ion: 75 Resp: 16690

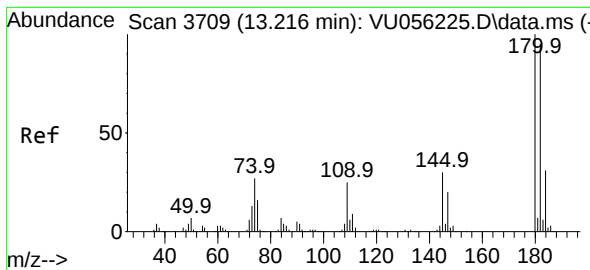
Ion Ratio Lower Upper

75 100

155 84.3 63.3 94.9

157 111.6 79.1 118.7





#69

1,3,5-Trichlorobenzene

Concen: 5.237 ug/L

RT: 13.212 min Scan# 31

Delta R.T. -0.003 min

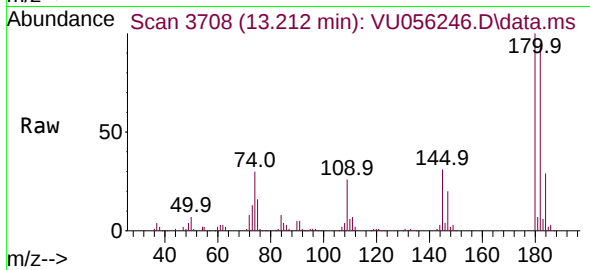
Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 235249

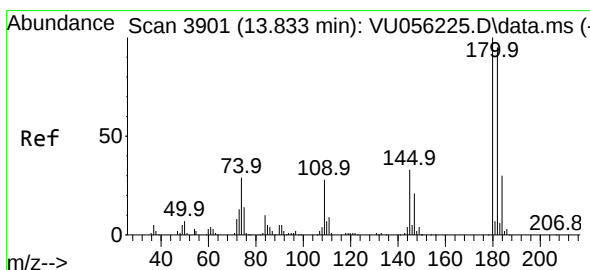
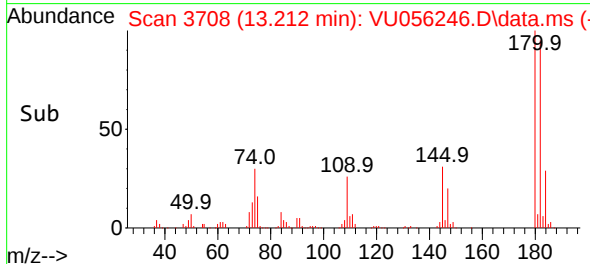
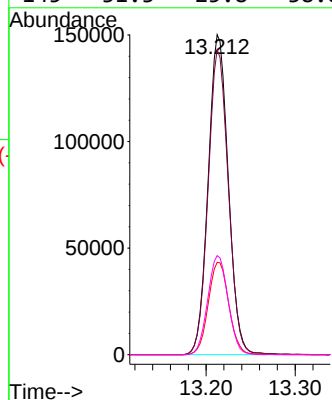
Ion Ratio Lower Upper

180 100

182 95.7 76.0 114.0

184 29.5 24.0 36.0

145 31.3 25.8 38.8



#70

1,2,4-trichlorobenzene

Concen: 5.341 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.003 min

Lab File: VU056246.D

Acq: 12 Nov 2023 03:46

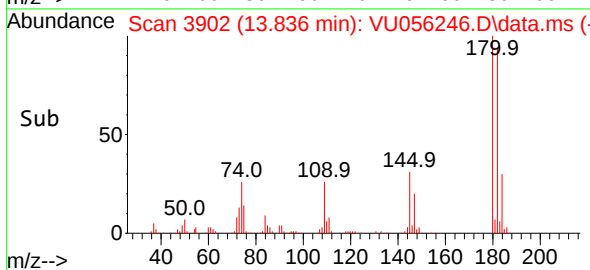
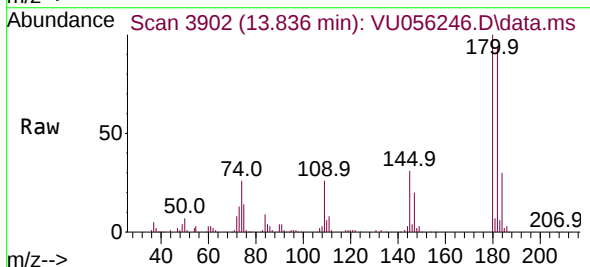
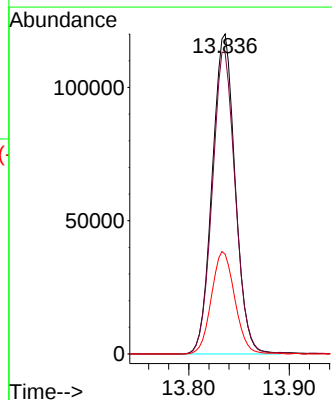
Tgt Ion:180 Resp: 190330

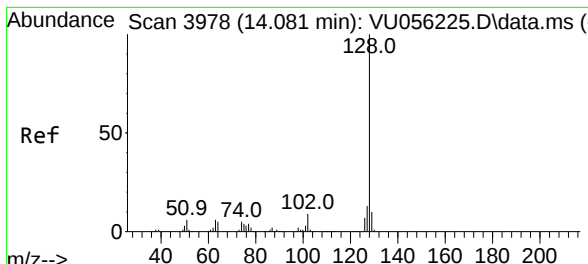
Ion Ratio Lower Upper

180 100

182 94.7 77.4 116.2

145 32.6 25.9 38.9

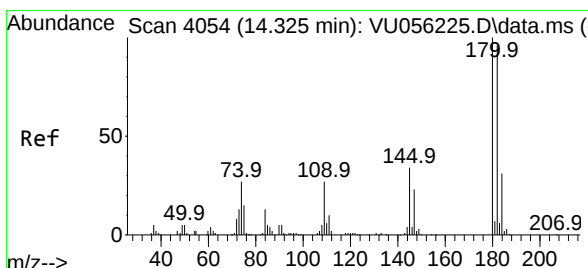
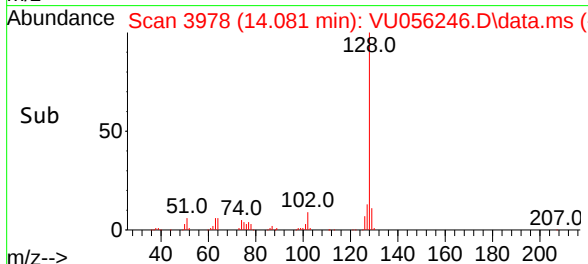
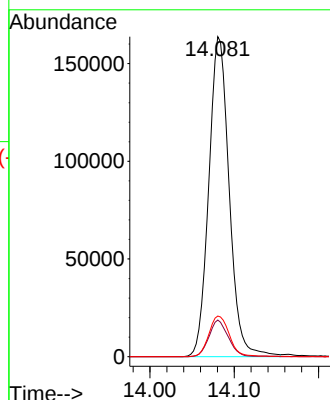
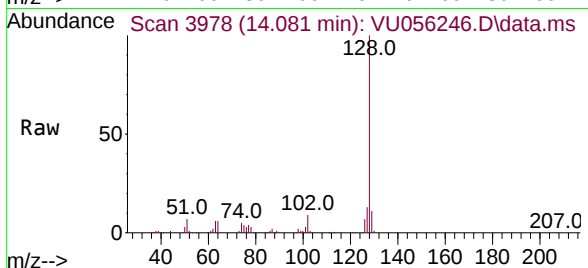




#71  
Naphthalene  
Concen: 5.222 ug/L  
RT: 14.081 min Scan# 3978  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

Instrument :  
MSVOA\_U  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 276003 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 10.8  | 8.4   | 12.6   |
| 127      | 12.8  | 10.5  | 15.7   |



#72  
1,2,3-Trichlorobenzene  
Concen: 5.119 ug/L  
RT: 14.325 min Scan# 4054  
Delta R.T. -0.000 min  
Lab File: VU056246.D  
Acq: 12 Nov 2023 03:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 159927 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.8  | 76.6  | 115.0  |
| 145      | 33.5  | 28.0  | 42.0   |

