

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112125\  
 Data File : VU063769.D  
 Acq On : 21 Nov 2025 14:57  
 Operator : MD/SY  
 Sample : Q3688-03MSD  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 M-31MSD

Quant Time: Nov 21 22:31:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM111725WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 21 22:28:08 2025  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.219   | 114   | 339324   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.393   | 117   | 334237   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.788  | 152   | 181741   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.583   | 65    | 124914   | 42.630   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 85.260%  |
| 7) Chloroethane-d5            | 1.891   | 69    | 99438    | 44.048   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 88.100%  |
| 11) 1,1-Dichloroethene-d2     | 2.541   | 63    | 229971   | 45.278   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.560%  |
| 21) 2-Butanone-d5             | 4.596   | 46    | 155036   | 92.809   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 92.810%  |
| 24) Chloroform-d              | 5.030   | 84    | 233372   | 47.469   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.940%  |
| 26) 1,2-Dichloroethane-d4     | 5.669   | 65    | 152759   | 47.253   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.500%  |
| 32) Benzene-d6                | 5.695   | 84    | 429045   | 43.793   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.580%  |
| 36) 1,2-Dichloropropane-d6    | 6.660   | 67    | 129795   | 45.128   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 90.260%  |
| 41) Toluene-d8                | 7.872   | 98    | 417615   | 44.895   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 89.780%  |
| 43) trans-1,3-Dichloroprop... | 8.155   | 79    | 50132    | 42.179   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 84.360%  |
| 47) 2-Hexanone-d5             | 8.608   | 63    | 97802    | 93.527   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 93.530%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.730  | 84    | 200020   | 47.556   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 95.120%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.168  | 152   | 157766   | 45.985   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.960%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.374   | 85    | 93673    | 47.433   | ug/L   | 98       |
| 3) Chloromethane              | 1.509   | 50    | 101061   | 45.229   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.589   | 62    | 125800   | 48.422   | ug/L   | 100      |
| 6) Bromomethane               | 1.837   | 94    | 84453    | 51.296   | ug/L   | 99       |
| 8) Chloroethane               | 1.914   | 64    | 86157    | 49.683   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 2.116   | 101   | 205086   | 50.050   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.554   | 101   | 116420   | 48.071   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.554   | 96    | 106170   | 47.933   | ug/L   | 91       |
| 13) Acetone                   | 2.602   | 43    | 129402   | 57.238   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.766   | 76    | 242999   | 42.117   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.927   | 43    | 131961   | 48.608   | ug/L   | 99       |
| 16) Methylene chloride        | 3.014   | 84    | 124889   | 48.366   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.322   | 96    | 113141   | 47.910   | ug/L   | 95       |
| 18) Methyl tert-butyl Ether   | 3.335   | 73    | 380824   | 47.649   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.833   | 63    | 217843   | 47.872   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.634   | 96    | 137463   | 50.569   | ug/L   | 96       |
| 22) 2-Butanone                | 4.673   | 43    | 180590   | 71.902   | ug/L   | 98       |
| 23) Bromochloromethane        | 4.943   | 128   | 68883    | 49.288   | ug/L   | 96       |
| 25) Chloroform                | 5.055   | 83    | 244947   | 49.729   | ug/L   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112125\  
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 Operator : MD/SY  
 Sample : Q3688-03MSD  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 M-31SMSD

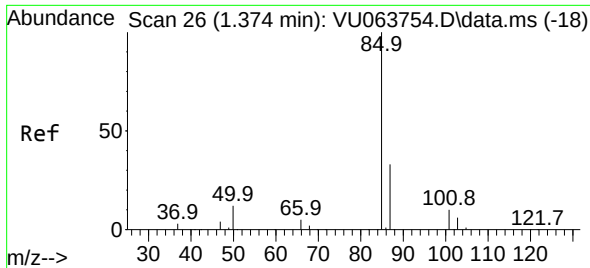
Quant Time: Nov 21 22:31:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM111725WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 21 22:28:08 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.763  | 62   | 199616   | 49.643 | ug/L  | 100      |
| 29) Cyclohexane               | 5.354  | 56   | 194837   | 46.331 | ug/L  | 95       |
| 30) 1,1,1-Trichloroethane     | 5.284  | 97   | 201082   | 47.114 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.493  | 117  | 158715   | 47.293 | ug/L  | 98       |
| 33) Benzene                   | 5.743  | 78   | 498474   | 48.898 | ug/L  | 100      |
| 34) Trichloroethene           | 6.515  | 95   | 141520   | 48.155 | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.734  | 83   | 200461   | 46.466 | ug/L  | 96       |
| 37) 1,2-Dichloropropane       | 6.759  | 63   | 128858   | 48.639 | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.078  | 83   | 173773   | 47.900 | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene   | 7.579  | 75   | 173909   | 44.263 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.763  | 43   | 376367   | 98.146 | ug/L  | 99       |
| 42) Toluene                   | 7.943  | 91   | 543735   | 48.313 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.184  | 75   | 153497   | 44.756 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.373  | 97   | 137577   | 49.103 | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.528  | 164  | 106214   | 47.260 | ug/L  | 98       |
| 48) 2-Hexanone                | 8.660  | 43   | 290095   | 96.382 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.782  | 129  | 126850   | 46.881 | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.898  | 107  | 140914   | 47.915 | ug/L  | 98       |
| 51) Chlorobenzene             | 9.422  | 112  | 365504   | 48.125 | ug/L  | 99       |
| 52) Ethylbenzene              | 9.544  | 91   | 622514   | 47.636 | ug/L  | 99       |
| 53) m,p-Xylene                | 9.669  | 106  | 240158   | 48.216 | ug/L  | 97       |
| 54) o-Xylene                  | 10.074 | 106  | 234522   | 48.349 | ug/L  | 97       |
| 55) Styrene                   | 10.090 | 104  | 390606   | 49.699 | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.756 | 83   | 222297   | 48.714 | ug/L  | 100      |
| 59) Bromoform                 | 10.264 | 173  | 91801    | 44.479 | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.795 | 75   | 188477   | 47.515 | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.460 | 105  | 634787   | 46.299 | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.061 | 105  | 520959   | 46.192 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.444 | 105  | 504302   | 46.845 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.721 | 146  | 282971   | 46.037 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.811 | 146  | 291460   | 46.296 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.187 | 146  | 277649   | 46.592 | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.965 | 75   | 46141    | 47.107 | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.193 | 180  | 195440   | 47.045 | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.811 | 180  | 164746   | 47.558 | ug/L  | 98       |
| 71) Naphthalene               | 14.058 | 128  | 514590   | 55.819 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.299 | 180  | 160182   | 48.787 | ug/L  | 99       |

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM111725WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 21 22:28:08 2025  
Response via : Initial Calibration

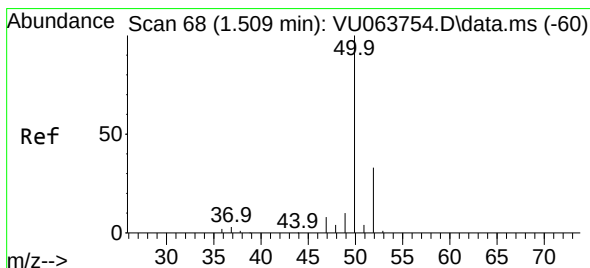
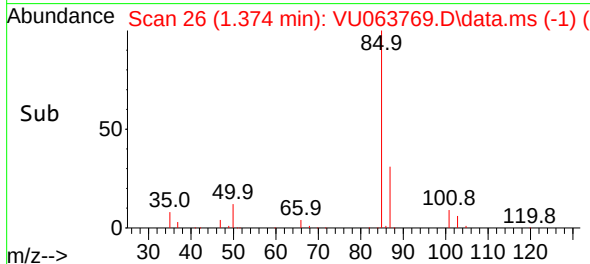
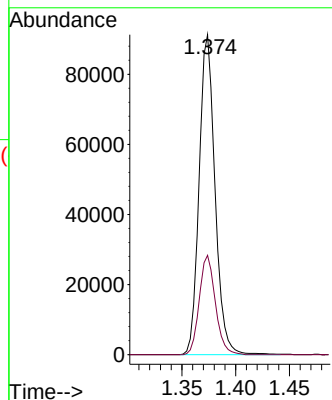
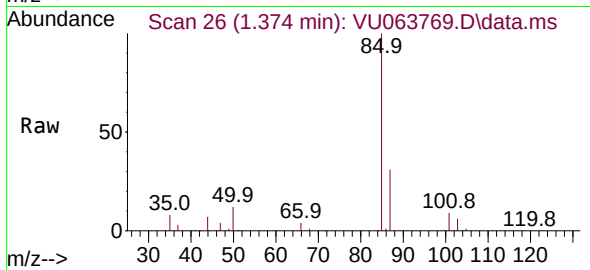




#2  
 Dichlorodifluoromethane  
 Concen: 47.433 ug/L  
 RT: 1.374 min Scan# 26  
 Delta R.T. 0.000 min  
 Lab File: VU063769.D  
 Acq: 21 Nov 2025 14:57

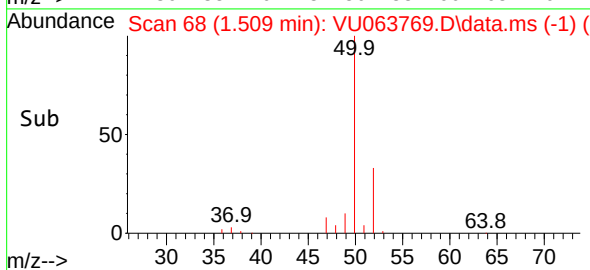
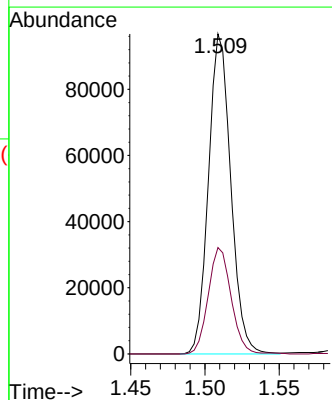
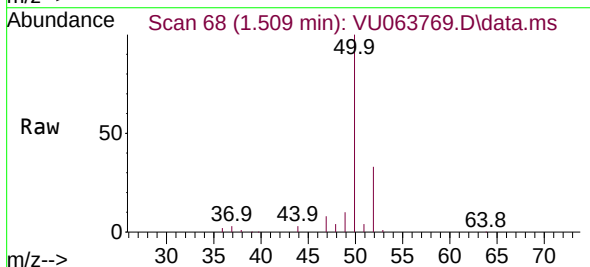
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 M-31SMSD

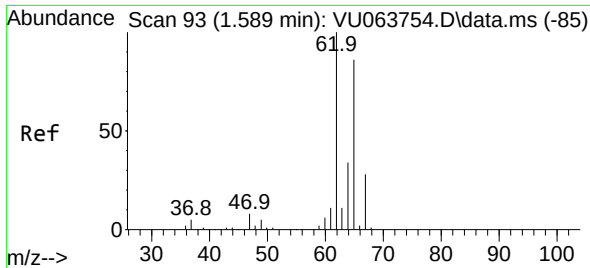
Tgt Ion: 85 Resp: 93673  
 Ion Ratio Lower Upper  
 85 100  
 87 31.3 26.2 39.2



#3  
 Chloromethane  
 Concen: 45.229 ug/L  
 RT: 1.509 min Scan# 68  
 Delta R.T. 0.000 min  
 Lab File: VU063769.D  
 Acq: 21 Nov 2025 14:57

Tgt Ion: 50 Resp: 101061  
 Ion Ratio Lower Upper  
 50 100  
 52 33.2 23.2 43.2

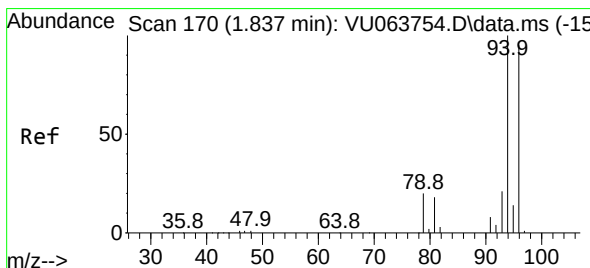
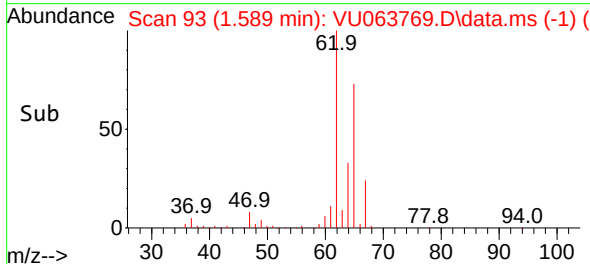
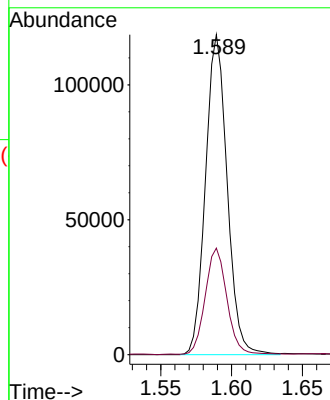
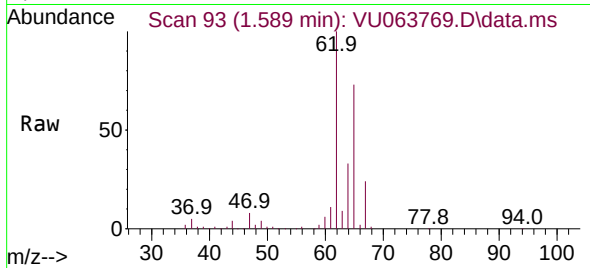




#5  
 Vinyl chloride  
 Concen: 48.422 ug/L  
 RT: 1.589 min Scan# 93  
 Delta R.T. 0.000 min  
 Lab File: VU063769.D  
 Acq: 21 Nov 2025 14:57

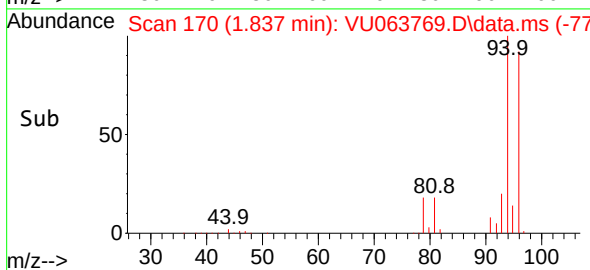
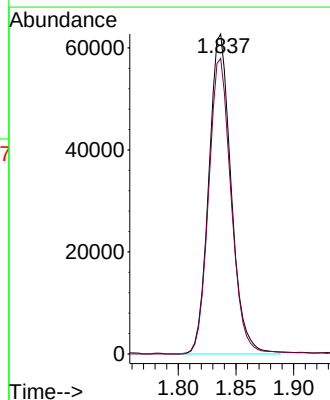
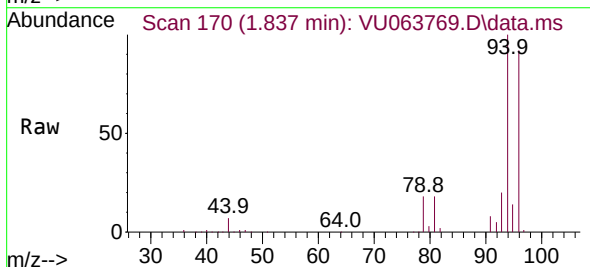
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 M-31SMSD

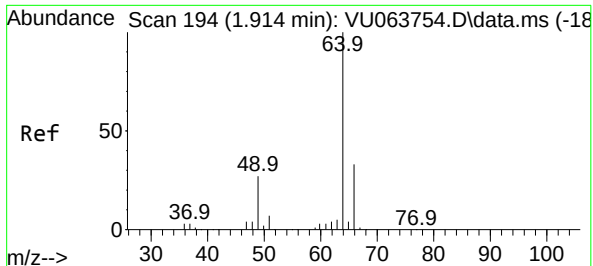
Tgt Ion: 62 Resp: 125800  
 Ion Ratio Lower Upper  
 62 100  
 64 33.3 23.2 43.2



#6  
 Bromomethane  
 Concen: 51.296 ug/L  
 RT: 1.837 min Scan# 170  
 Delta R.T. 0.000 min  
 Lab File: VU063769.D  
 Acq: 21 Nov 2025 14:57

Tgt Ion: 94 Resp: 84453  
 Ion Ratio Lower Upper  
 94 100  
 96 92.3 63.8 118.4





#8

Chloroethane

Concen: 49.683 ug/L

RT: 1.914 min Scan# 194

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

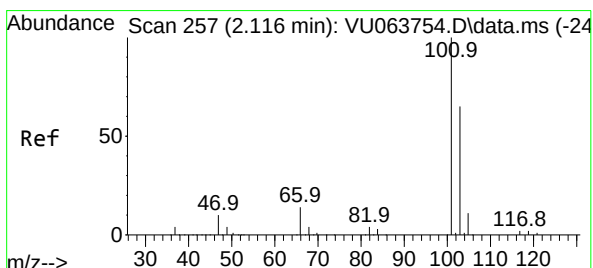
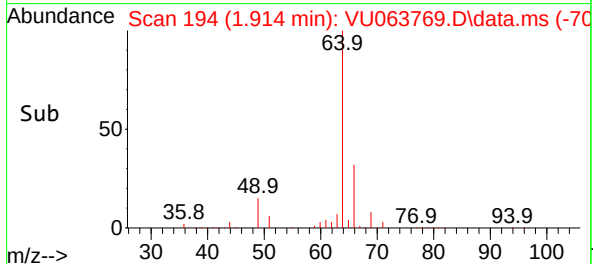
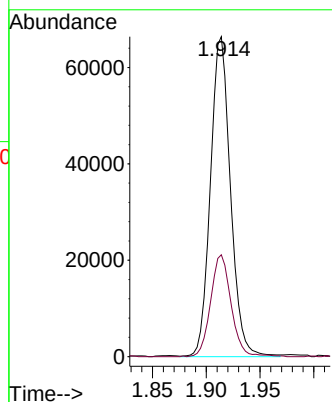
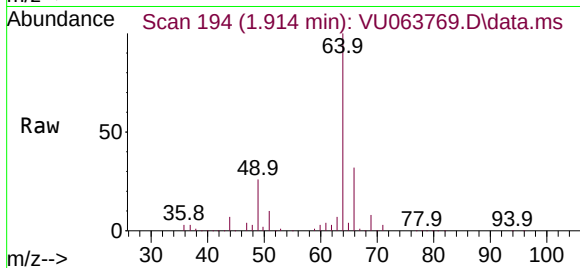
M-31SMSD

Tgt Ion: 64 Resp: 86157

Ion Ratio Lower Upper

64 100

66 31.8 22.4 41.6



#9

Trichlorofluoromethane

Concen: 50.050 ug/L

RT: 2.116 min Scan# 257

Delta R.T. 0.000 min

Lab File: VU063769.D

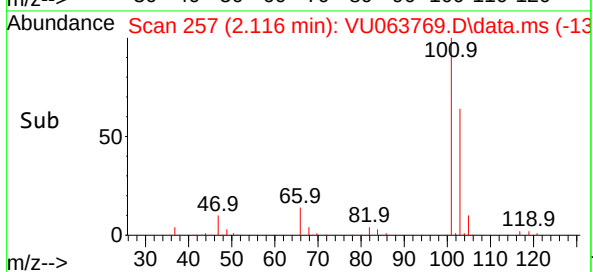
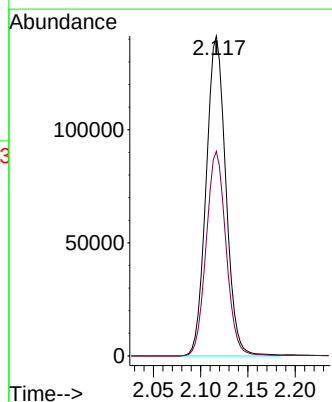
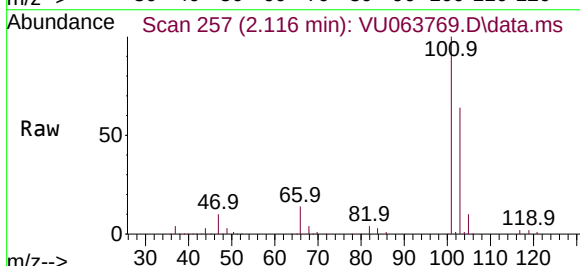
Acq: 21 Nov 2025 14:57

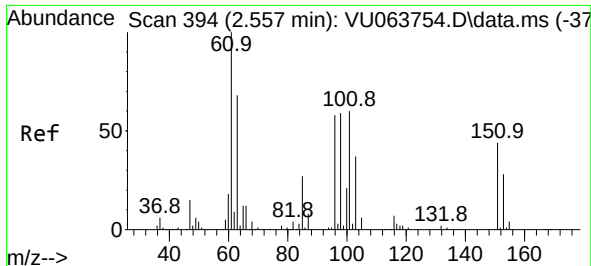
Tgt Ion:101 Resp: 205086

Ion Ratio Lower Upper

101 100

103 64.7 52.0 78.0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 48.071 ug/L

RT: 2.554 min Scan# 393

Delta R.T. -0.003 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

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ClientSampleId :

M-31SMSD

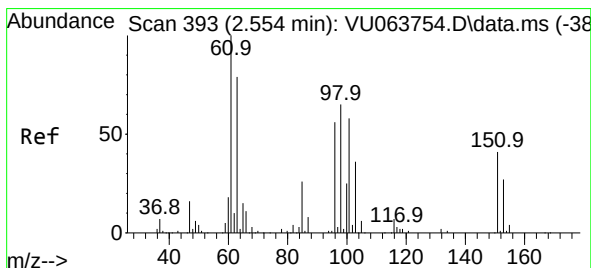
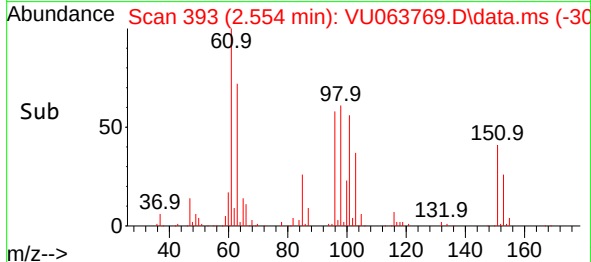
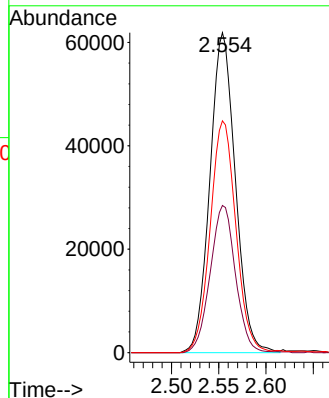
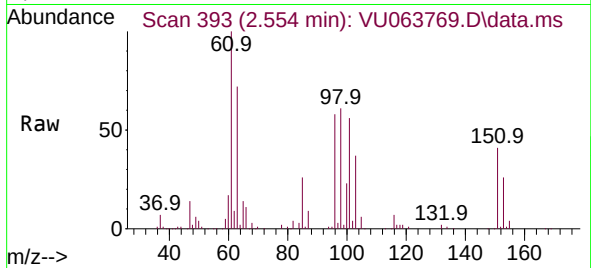
Tgt Ion:101 Resp: 116420

Ion Ratio Lower Upper

101 100

85 45.7 36.3 54.5

151 73.1 60.1 90.1



#12

1,1-Dichloroethene

Concen: 47.933 ug/L

RT: 2.554 min Scan# 393

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

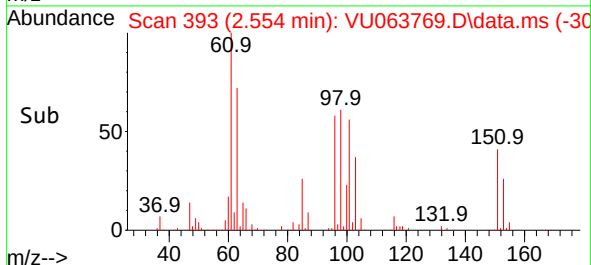
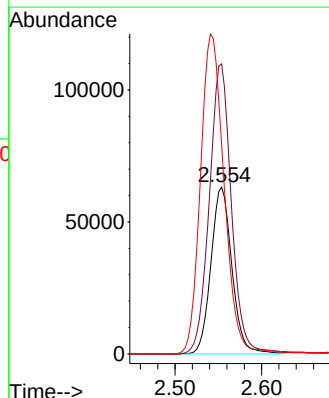
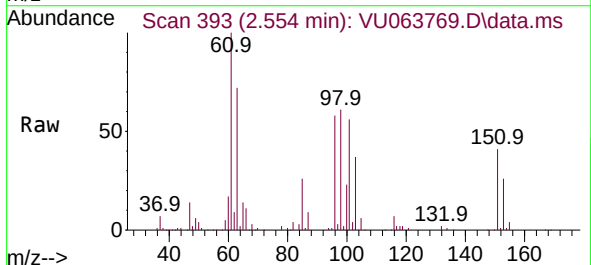
Tgt Ion: 96 Resp: 106170

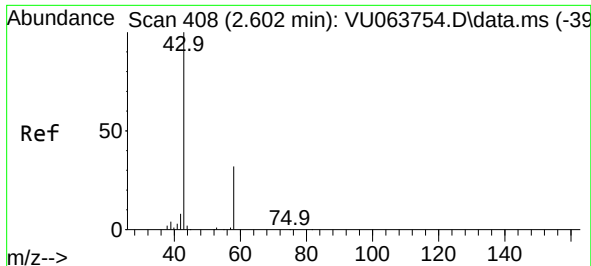
Ion Ratio Lower Upper

96 100

61 173.8 123.3 228.9

63 125.2 103.3 191.8





#13

Acetone

Concen: 57.238 ug/L

RT: 2.602 min Scan# 408

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

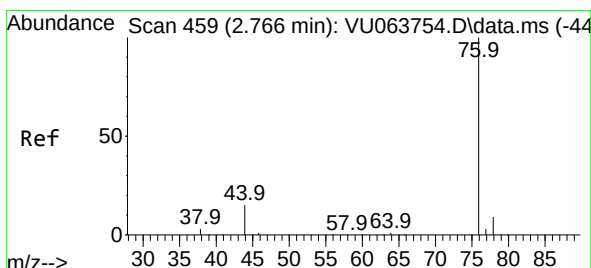
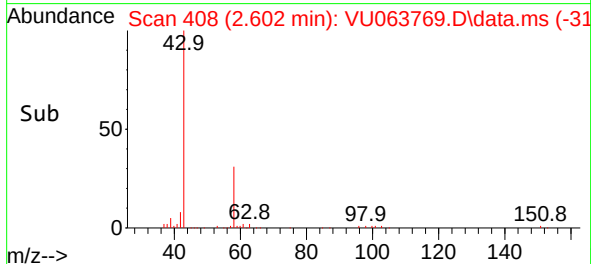
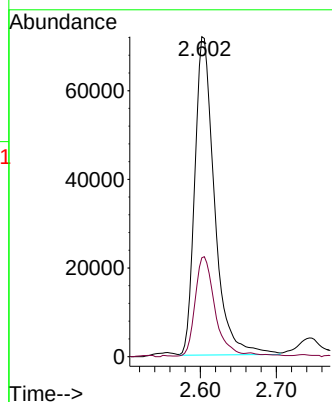
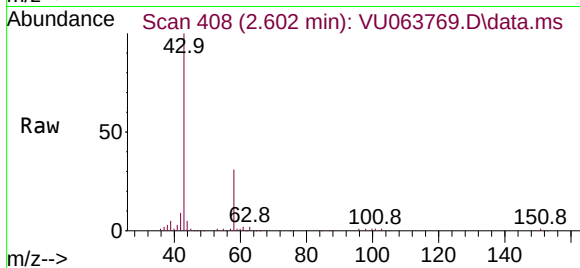
M-31SMSD

Tgt Ion: 43 Resp: 129402

Ion Ratio Lower Upper

43 100

58 30.9 0.0 63.4



#14

Carbon disulfide

Concen: 42.117 ug/L

RT: 2.766 min Scan# 459

Delta R.T. 0.000 min

Lab File: VU063769.D

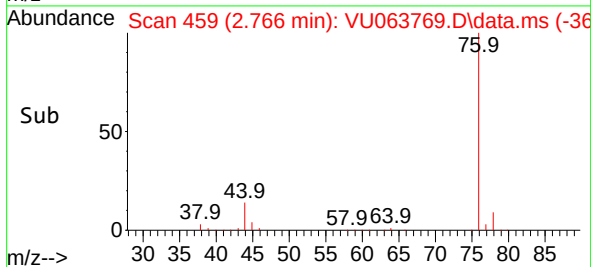
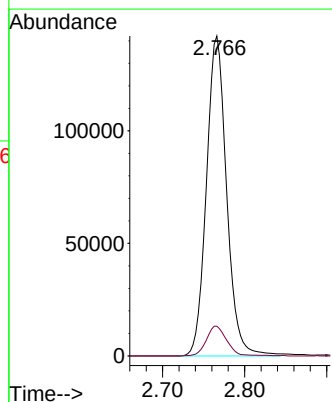
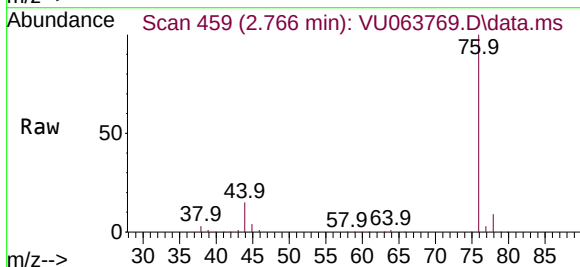
Acq: 21 Nov 2025 14:57

Tgt Ion: 76 Resp: 242999

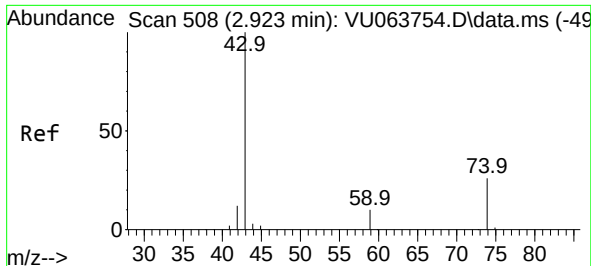
Ion Ratio Lower Upper

76 100

78 9.3 7.8 11.6



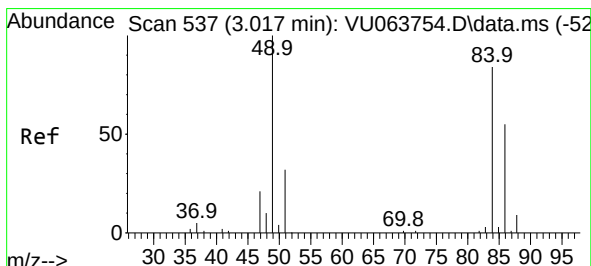
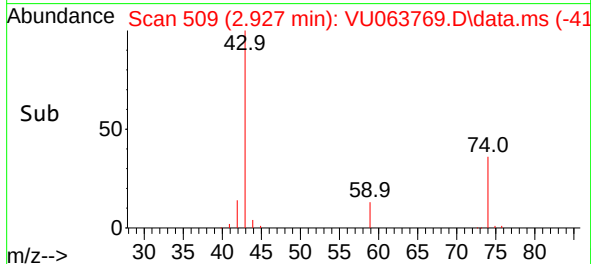
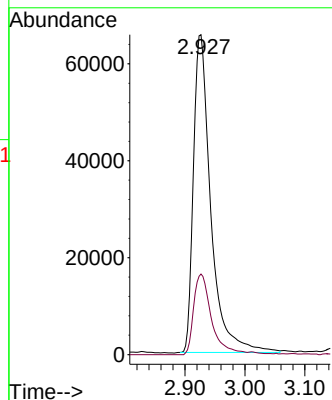
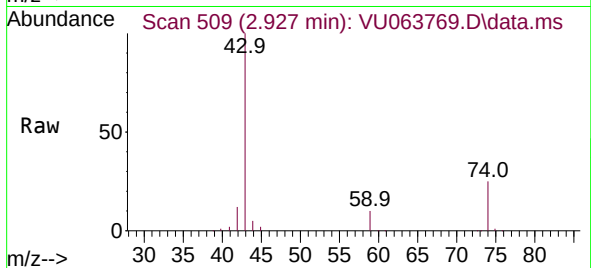




#15  
Methyl Acetate  
Concen: 48.608 ug/L  
RT: 2.927 min Scan# 509  
Delta R.T. 0.003 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

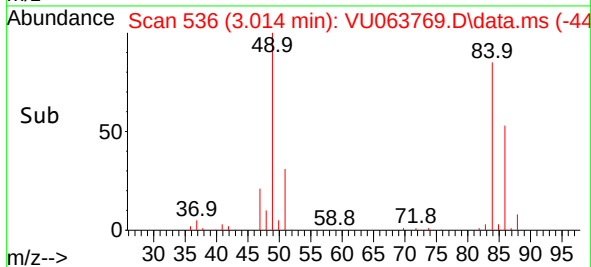
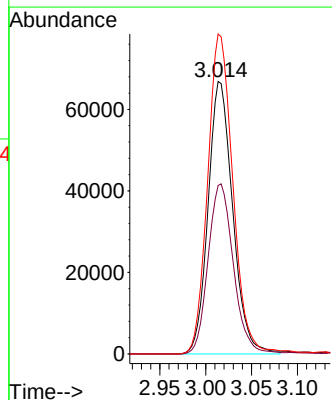
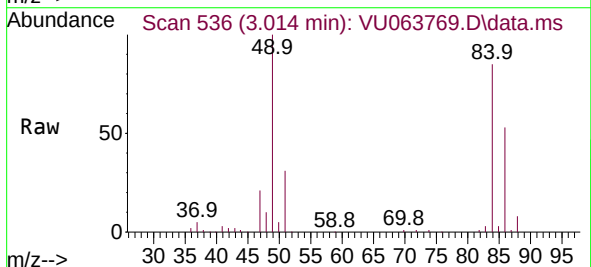
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

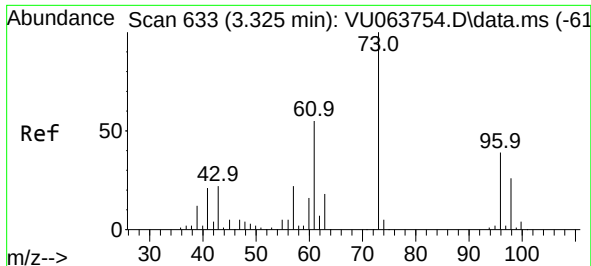
Tgt Ion: 43 Resp: 131961  
Ion Ratio Lower Upper  
43 100  
74 25.9 20.5 30.7



#16  
Methylene chloride  
Concen: 48.366 ug/L  
RT: 3.014 min Scan# 536  
Delta R.T. -0.003 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 84 Resp: 124889  
Ion Ratio Lower Upper  
84 100  
86 61.8 45.2 84.0  
49 117.5 83.6 155.2





#17

trans-1,2-Dichloroethene

Concen: 47.910 ug/L

RT: 3.322 min Scan# 633

Delta R.T. -0.003 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

M-31SMSD

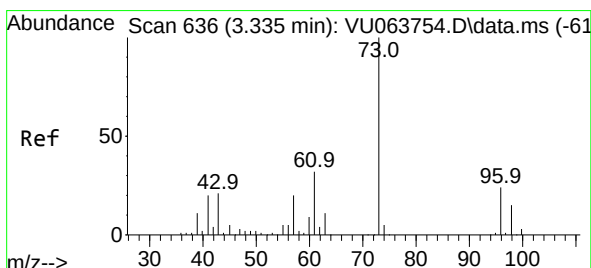
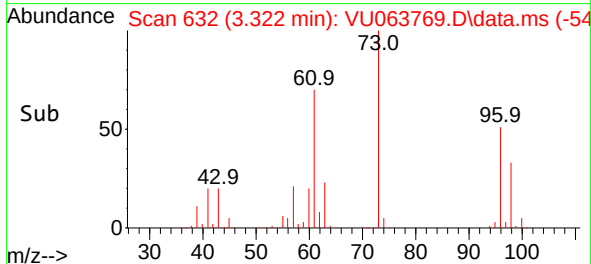
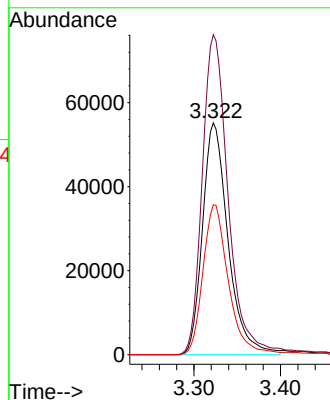
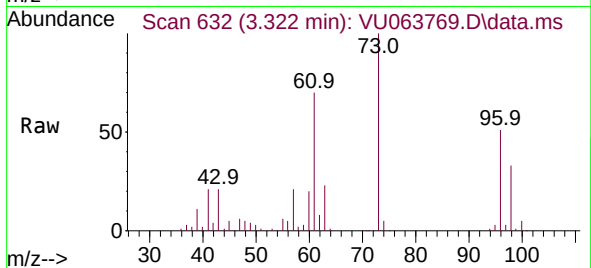
Tgt Ion: 96 Resp: 113141

Ion Ratio Lower Upper

96 100

61 138.1 92.7 172.1

98 64.6 43.2 80.2



#18

Methyl tert-butyl Ether

Concen: 47.649 ug/L

RT: 3.335 min Scan# 636

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

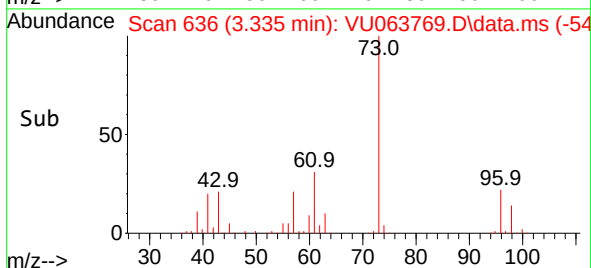
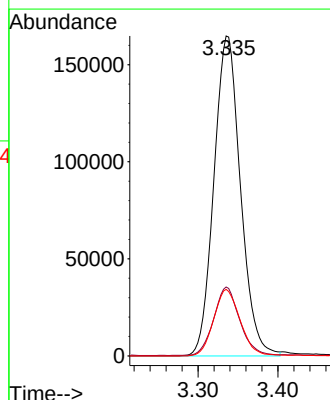
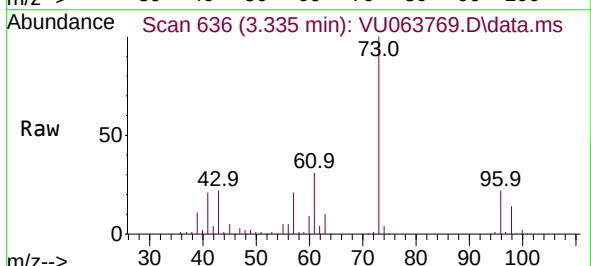
Tgt Ion: 73 Resp: 380824

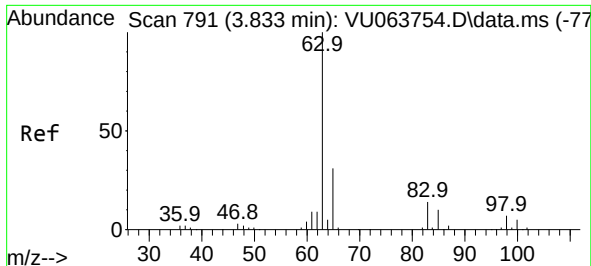
Ion Ratio Lower Upper

73 100

43 20.8 16.6 24.8

57 20.7 16.3 24.5

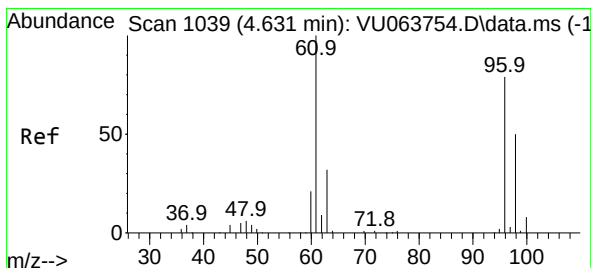
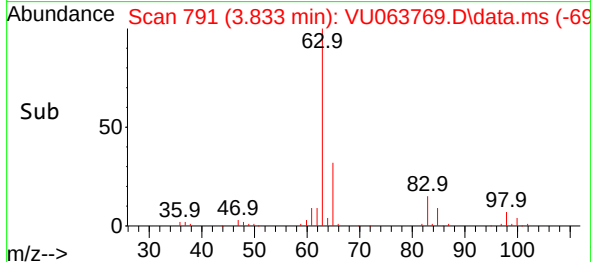
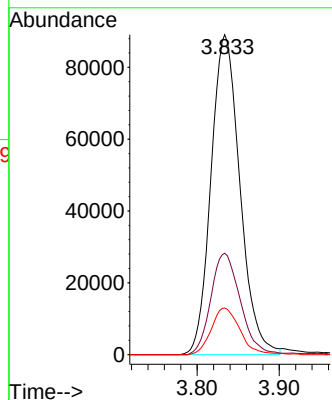
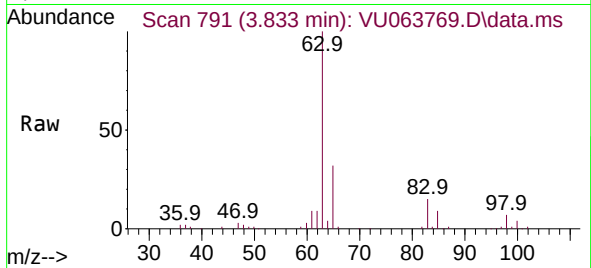




#19  
1,1-Dichloroethane  
Concen: 47.872 ug/L  
RT: 3.833 min Scan# 791  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

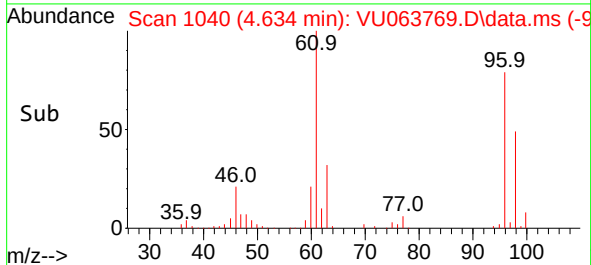
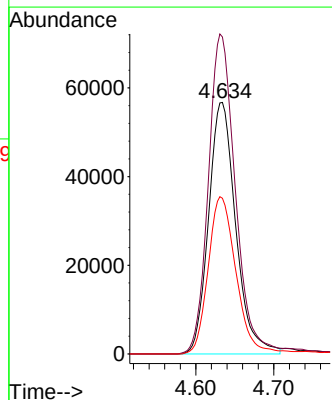
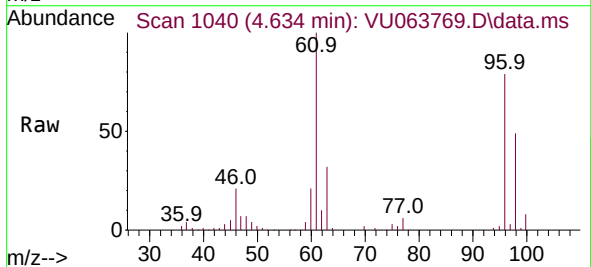
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

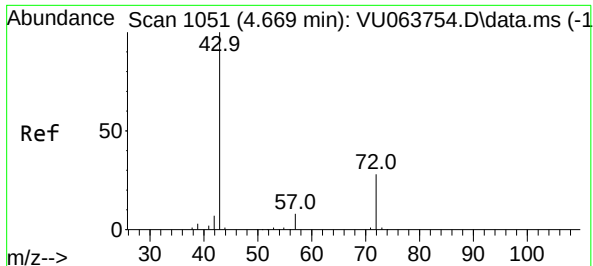
Tgt Ion: 63 Resp: 217843  
Ion Ratio Lower Upper  
63 100  
65 31.7 22.0 41.0  
83 14.6 9.5 17.7



#20  
cis-1,2-Dichloroethene  
Concen: 50.569 ug/L  
RT: 4.634 min Scan# 1040  
Delta R.T. 0.003 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 96 Resp: 137463  
Ion Ratio Lower Upper  
96 100  
61 126.0 90.3 167.7  
98 61.9 46.3 86.1

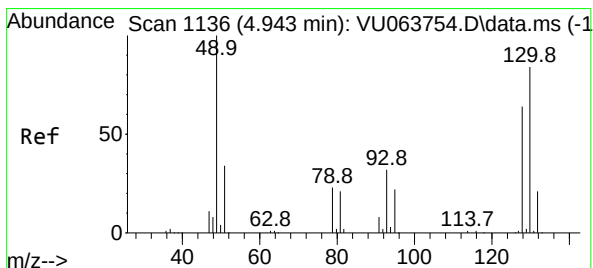
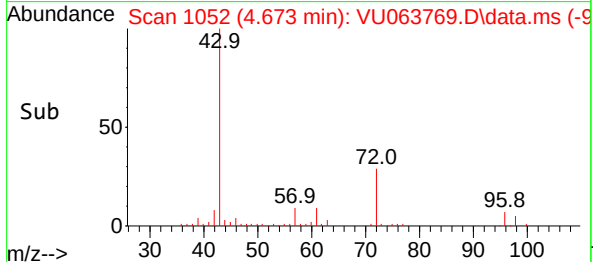
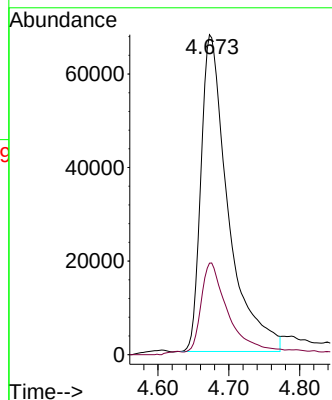
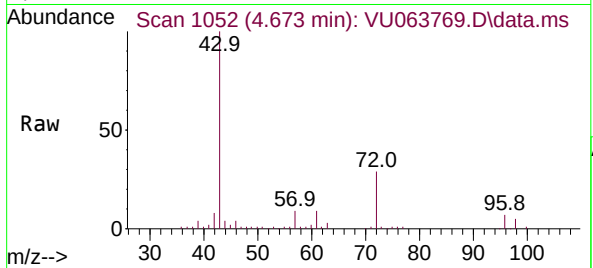




#22  
2-Butanone  
Concen: 71.902 ug/L  
RT: 4.673 min Scan# 1052  
Delta R.T. 0.003 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

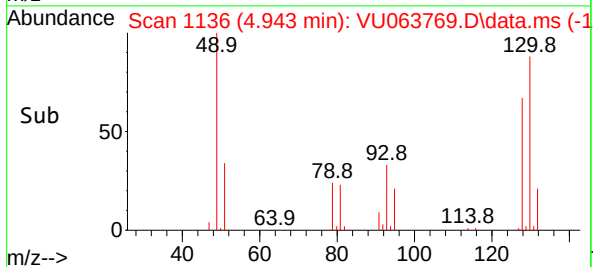
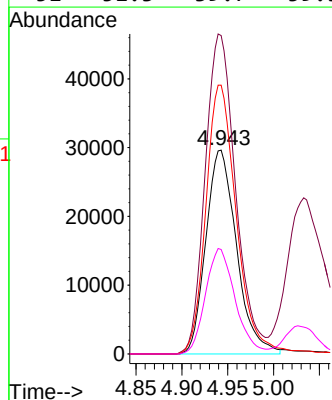
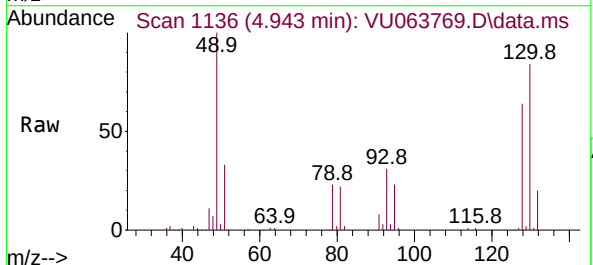
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

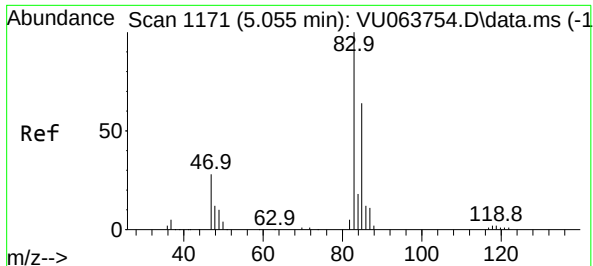
Tgt Ion: 43 Resp: 180590  
Ion Ratio Lower Upper  
43 100  
72 28.0 13.6 40.7



#23  
Bromochloromethane  
Concen: 49.288 ug/L  
RT: 4.943 min Scan# 1136  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion:128 Resp: 68883  
Ion Ratio Lower Upper  
128 100  
49 156.3 113.5 210.7  
130 131.9 89.8 166.8  
51 51.3 39.7 59.5





#25

Chloroform

Concen: 49.729 ug/L

RT: 5.055 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

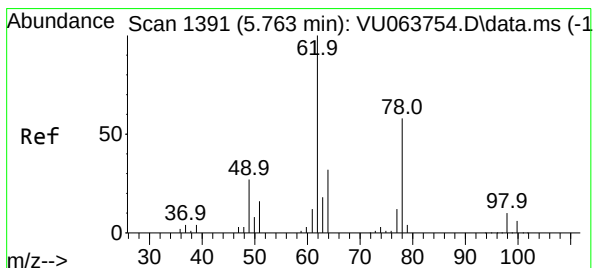
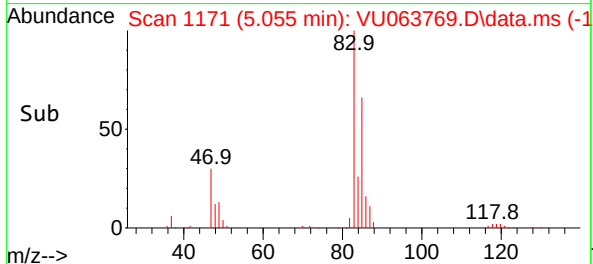
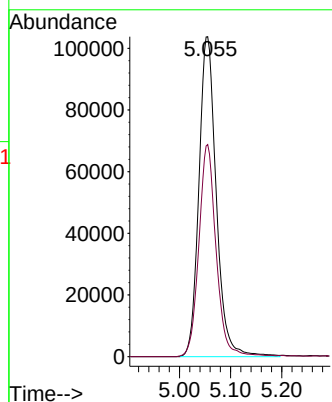
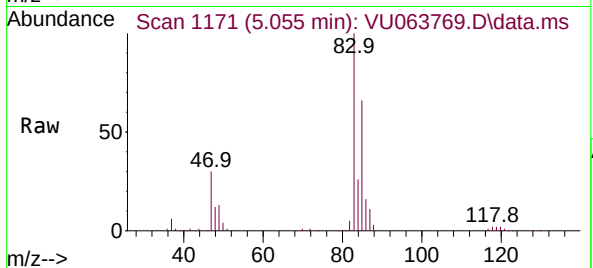
M-31SMSD

Tgt Ion: 83 Resp: 244947

Ion Ratio Lower Upper

83 100

85 66.3 45.4 84.4



#27

1,2-Dichloroethane

Concen: 49.643 ug/L

RT: 5.763 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VU063769.D

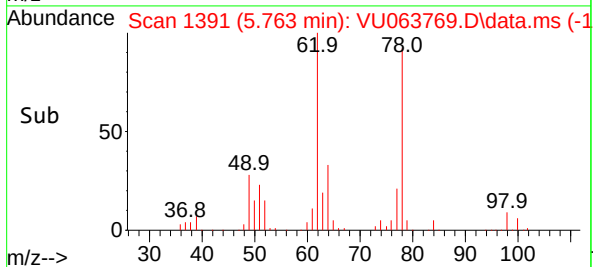
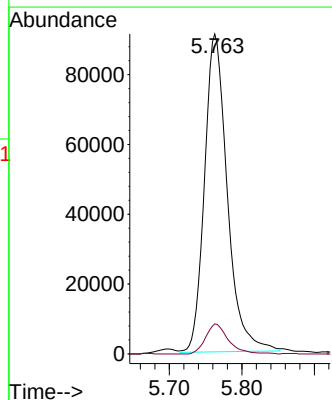
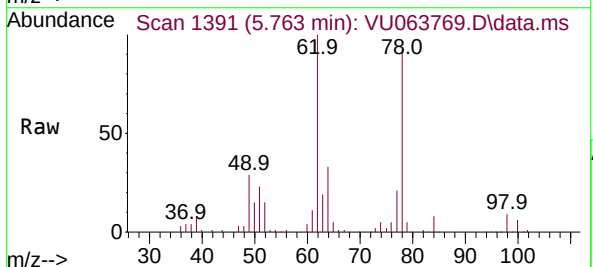
Acq: 21 Nov 2025 14:57

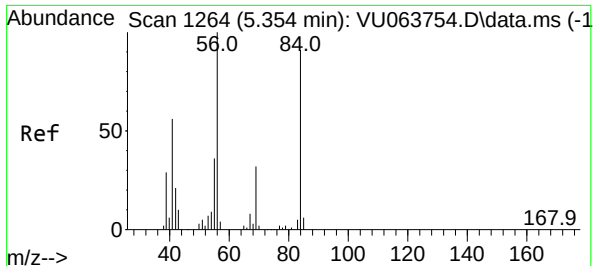
Tgt Ion: 62 Resp: 199616

Ion Ratio Lower Upper

62 100

98 9.4 7.6 11.4





#29

Cyclohexane

Concen: 46.331 ug/L

RT: 5.354 min Scan# 1264

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

M-31SMSD

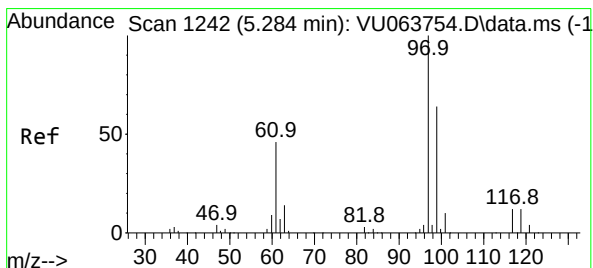
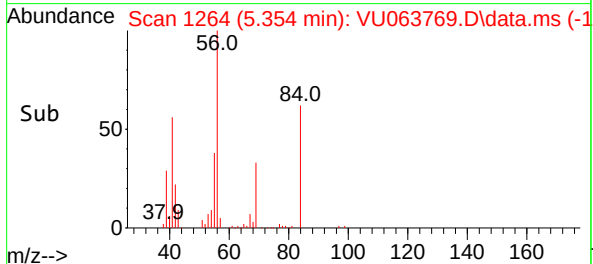
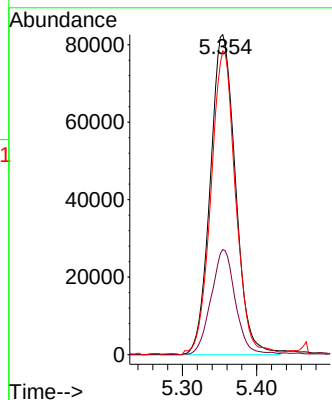
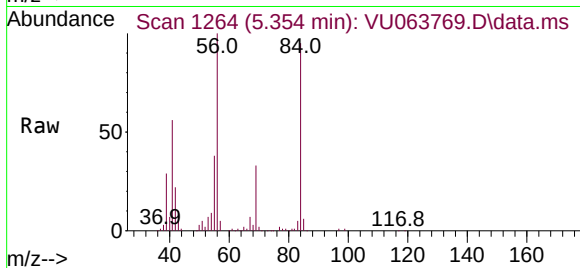
Tgt Ion: 56 Resp: 194837

Ion Ratio Lower Upper

56 100

69 31.1 25.8 38.8

84 92.8 69.3 103.9



#30

1,1,1-Trichloroethane

Concen: 47.114 ug/L

RT: 5.284 min Scan# 1242

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

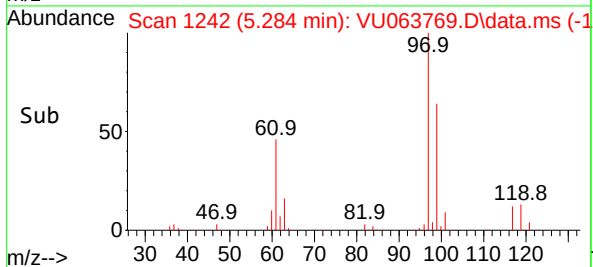
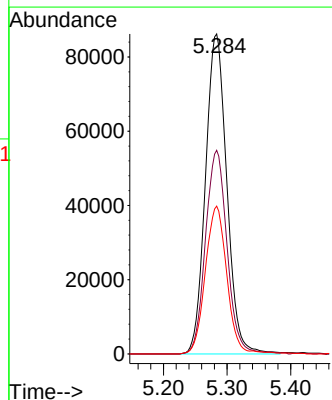
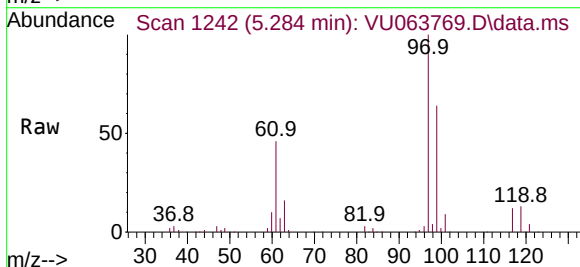
Tgt Ion: 97 Resp: 201082

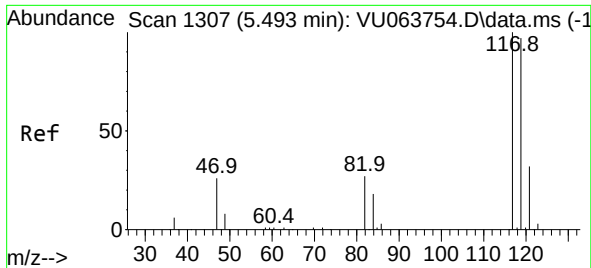
Ion Ratio Lower Upper

97 100

99 64.0 50.7 76.1

61 45.9 37.2 55.8

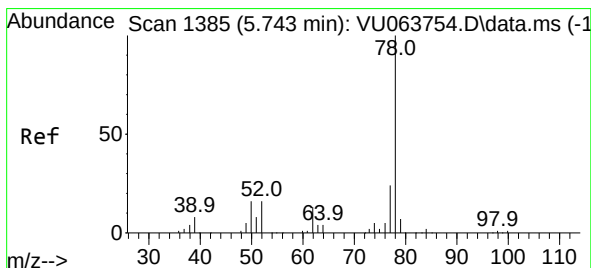
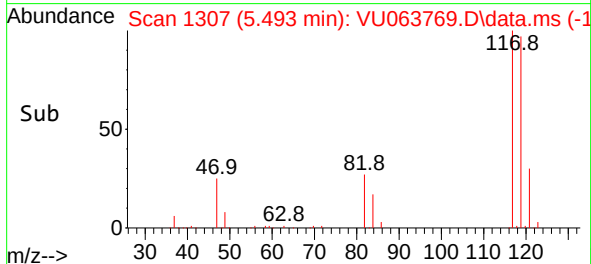
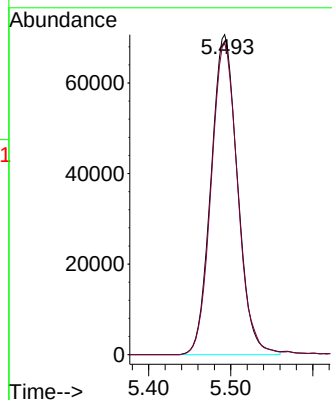
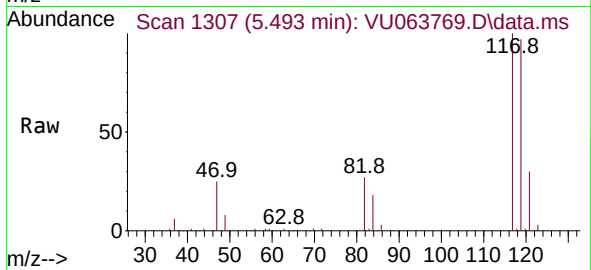




#31  
Carbon tetrachloride  
Concen: 47.293 ug/L  
RT: 5.493 min Scan# 1307  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

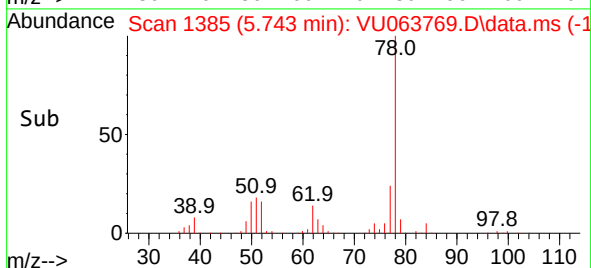
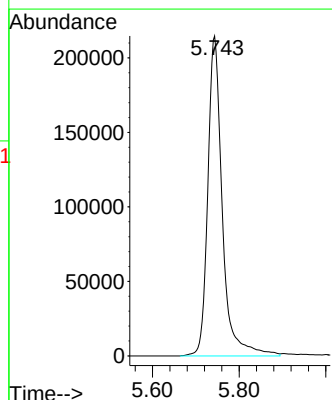
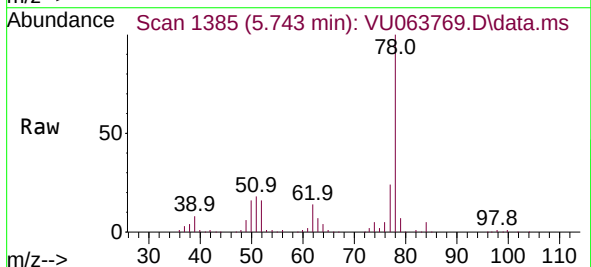
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

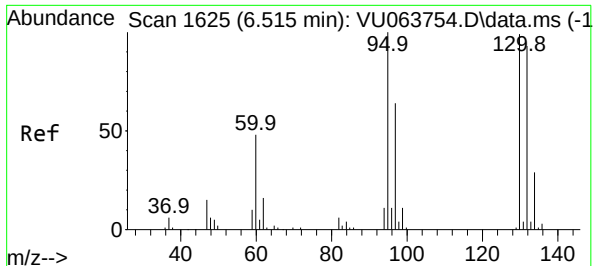
Tgt Ion:117 Resp: 158715  
Ion Ratio Lower Upper  
117 100  
119 97.3 76.0 114.0



#33  
Benzene  
Concen: 48.898 ug/L  
RT: 5.743 min Scan# 1385  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 78 Resp: 498474

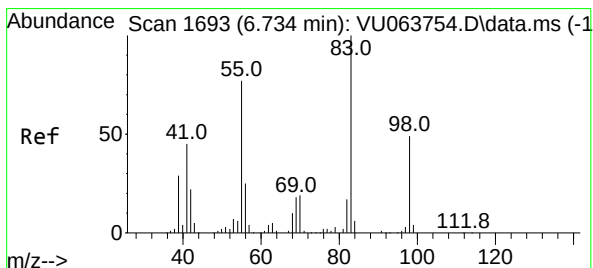
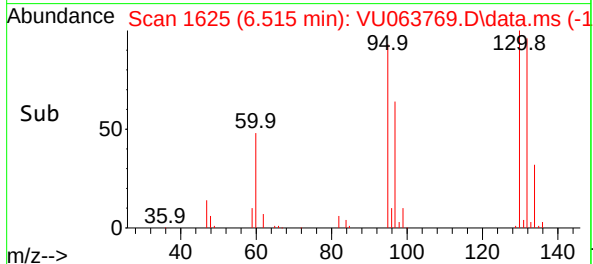
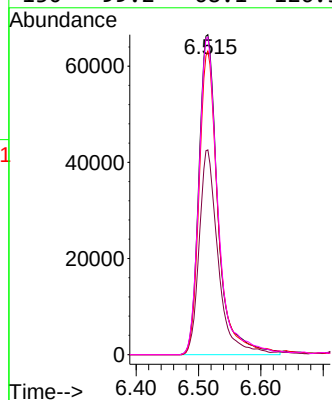
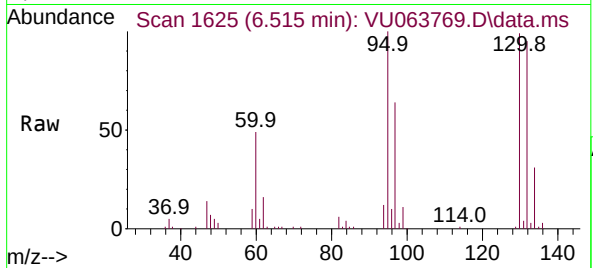




#34  
Trichloroethene  
Concen: 48.155 ug/L  
RT: 6.515 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

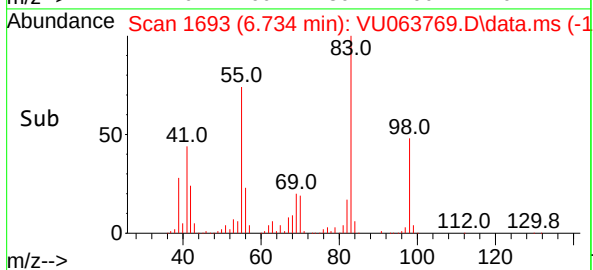
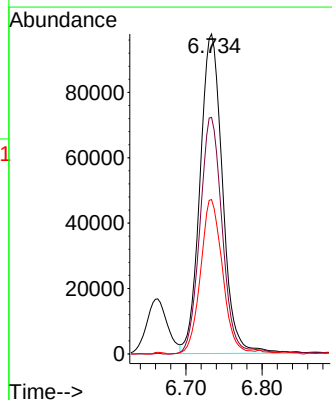
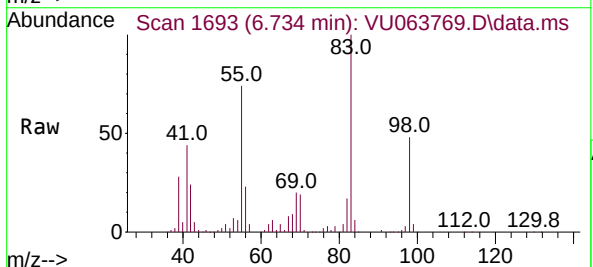
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

Tgt Ion: 95 Resp: 141520  
Ion Ratio Lower Upper  
95 100  
97 64.0 45.1 83.9  
132 94.9 68.3 126.8  
130 99.2 68.1 126.5

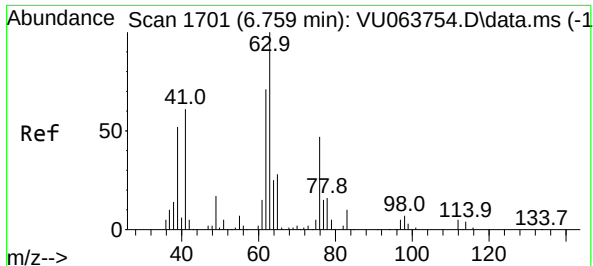


#35  
Methylcyclohexane  
Concen: 46.466 ug/L  
RT: 6.734 min Scan# 1693  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 83 Resp: 200461  
Ion Ratio Lower Upper  
83 100  
55 73.0 60.9 91.3  
98 47.3 39.7 59.5



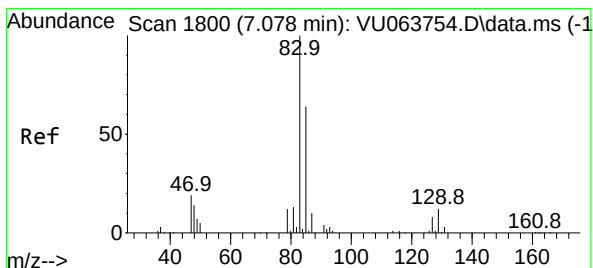
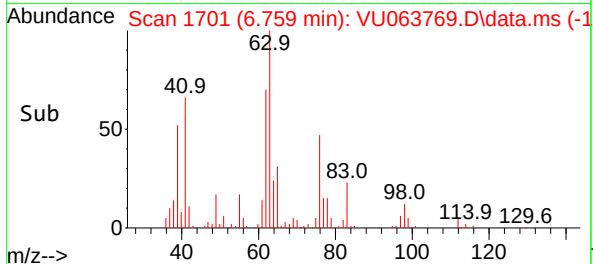
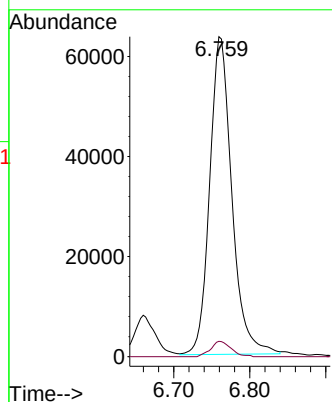
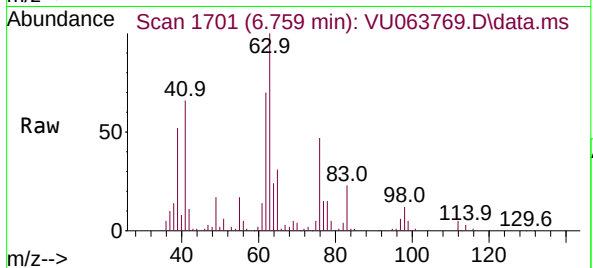




#37  
1,2-Dichloropropane  
Concen: 48.639 ug/L  
RT: 6.759 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

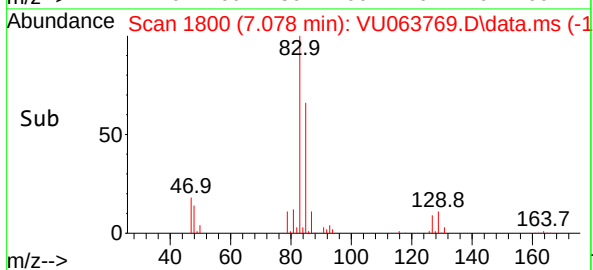
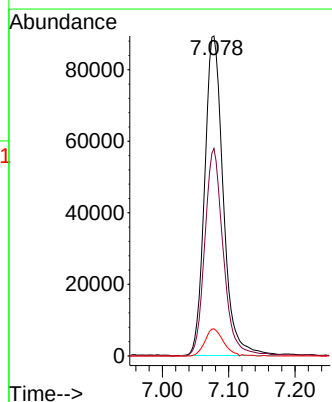
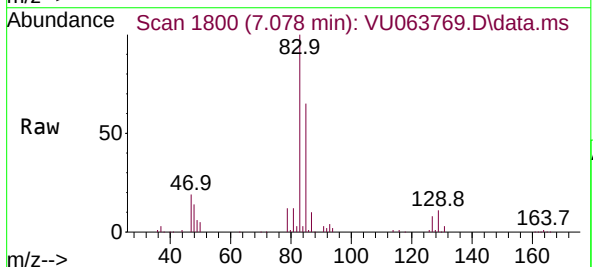
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

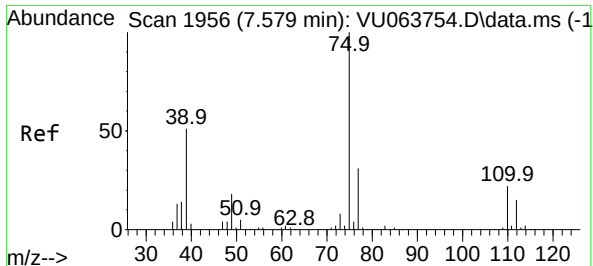
Tgt Ion: 63 Resp: 128858  
Ion Ratio Lower Upper  
63 100  
112 4.4 3.7 5.5



#38  
Bromodichloromethane  
Concen: 47.900 ug/L  
RT: 7.078 min Scan# 1800  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 83 Resp: 173773  
Ion Ratio Lower Upper  
83 100  
85 64.8 43.1 80.1  
127 8.5 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 44.263 ug/L

RT: 7.579 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

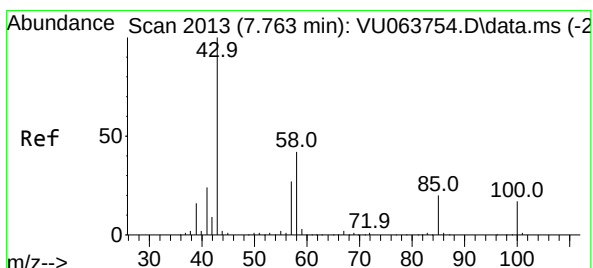
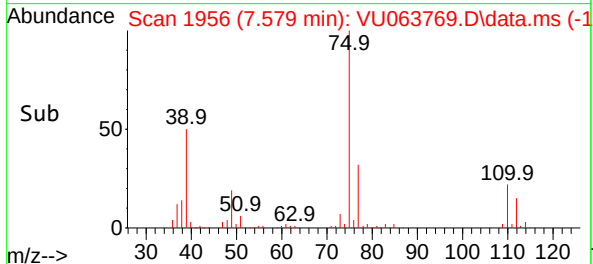
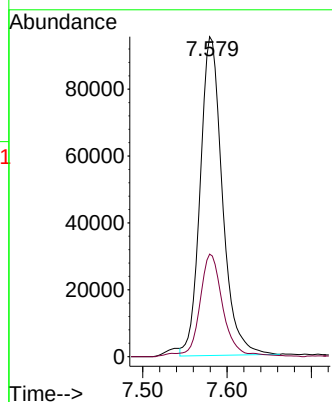
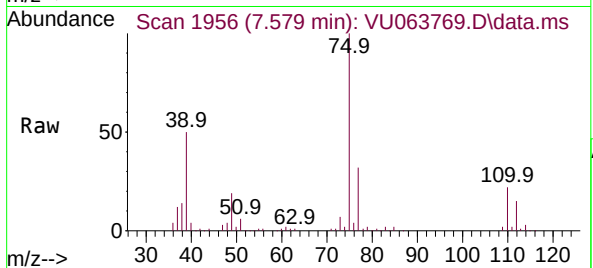
M-31SMSD

Tgt Ion: 75 Resp: 173909

Ion Ratio Lower Upper

75 100

77 32.0 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 98.146 ug/L

RT: 7.763 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

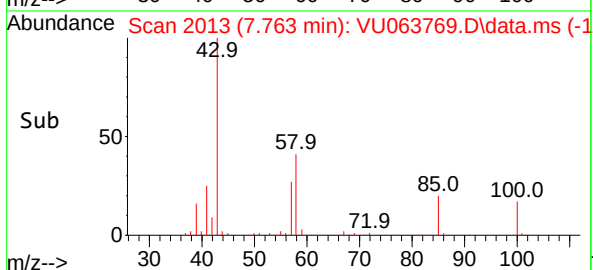
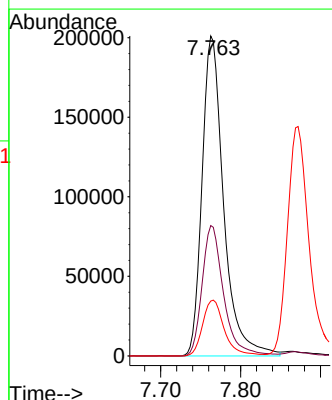
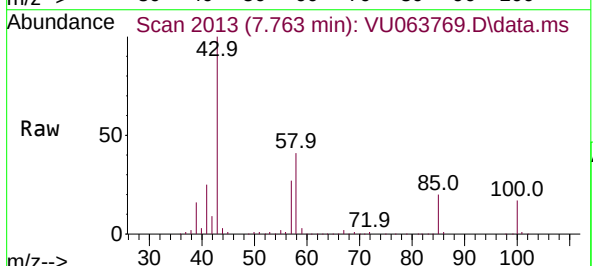
Tgt Ion: 43 Resp: 376367

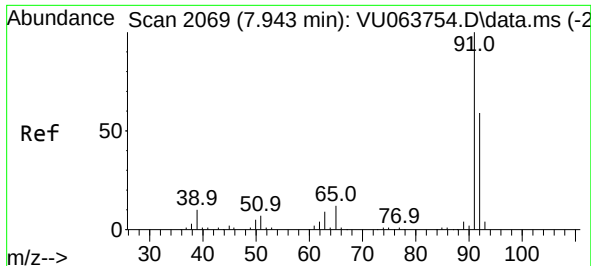
Ion Ratio Lower Upper

43 100

58 40.5 32.9 49.3

100 17.6 13.9 20.9





#42

Toluene

Concen: 48.313 ug/L

RT: 7.943 min Scan# 2069

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

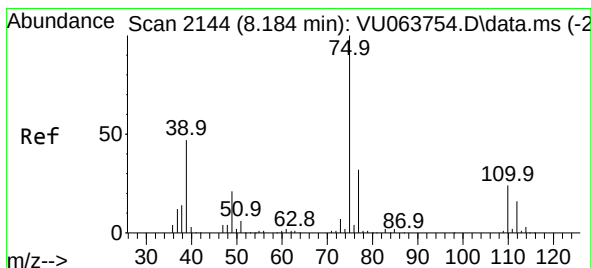
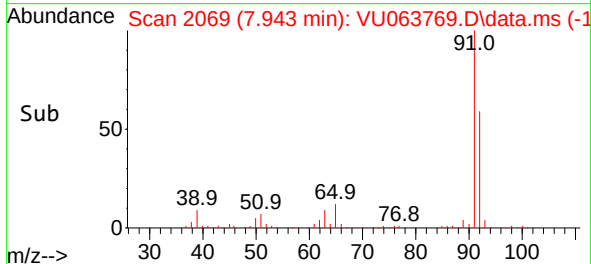
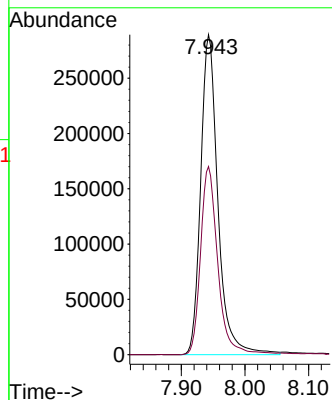
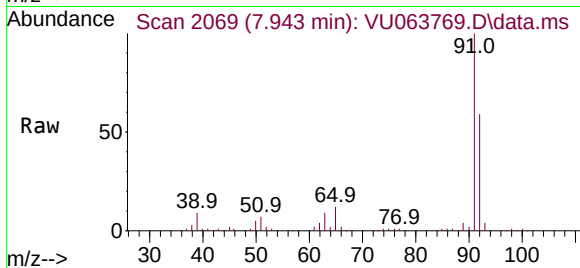
M-31SMSD

Tgt Ion: 91 Resp: 543735

Ion Ratio Lower Upper

91 100

92 58.8 41.2 76.4



#44

trans-1,3-Dichloropropene

Concen: 44.756 ug/L

RT: 8.184 min Scan# 2144

Delta R.T. 0.000 min

Lab File: VU063769.D

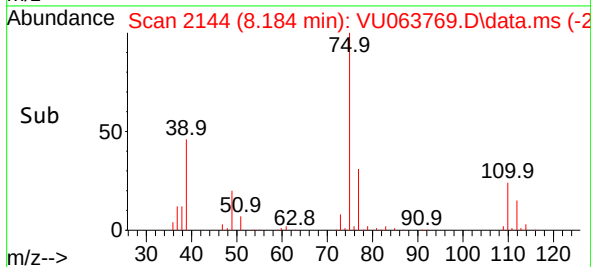
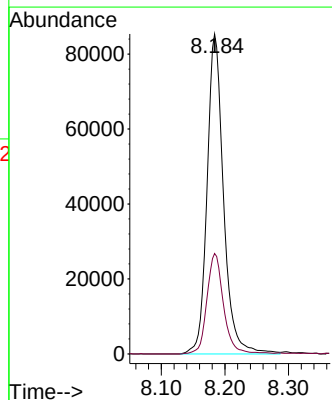
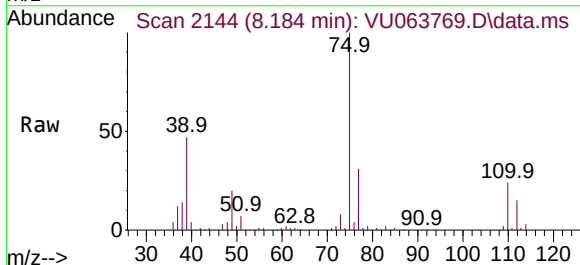
Acq: 21 Nov 2025 14:57

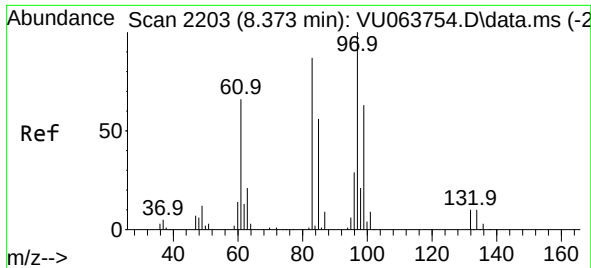
Tgt Ion: 75 Resp: 153497

Ion Ratio Lower Upper

75 100

77 31.4 21.4 39.8



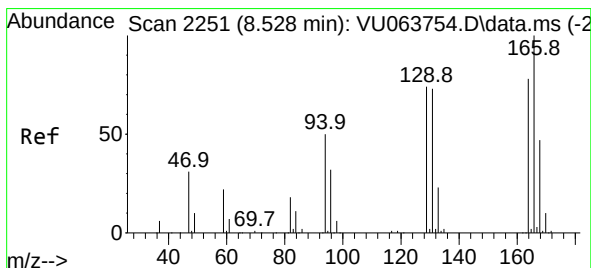
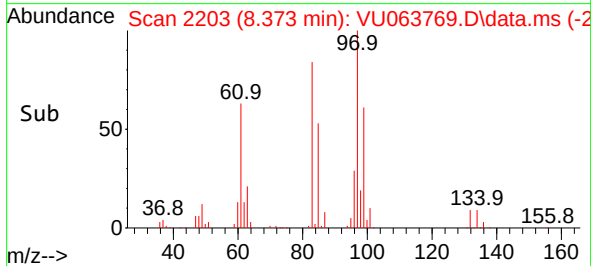
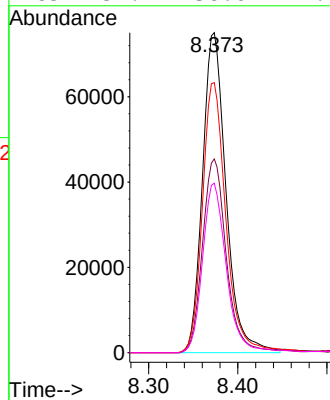
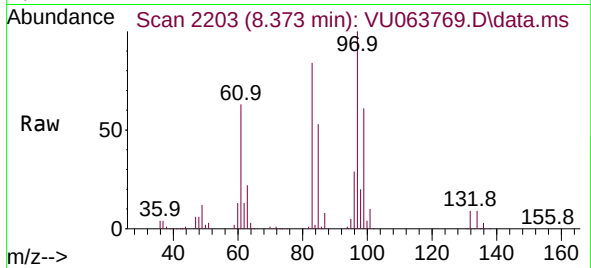


#45  
1,1,2-Trichloroethane  
Concen: 49.103 ug/L  
RT: 8.373 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

Tgt Ion: 97 Resp: 137577

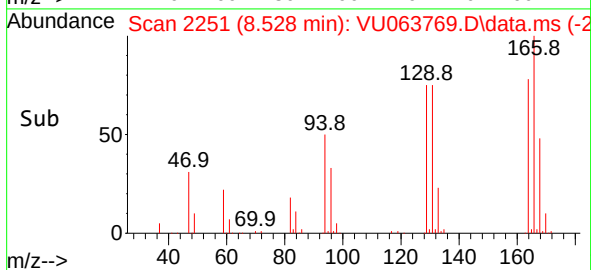
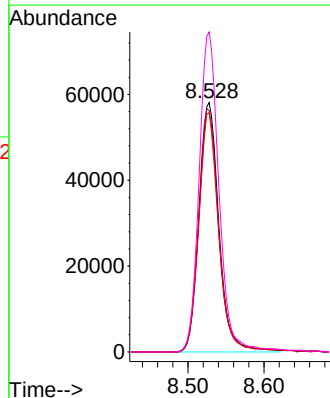
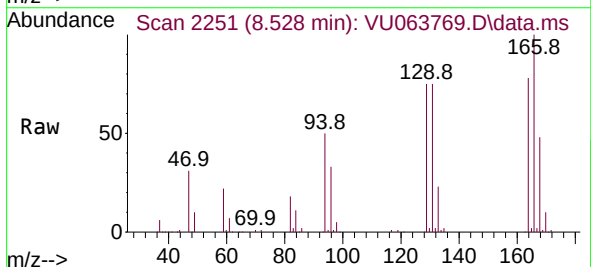
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 60.5  | 43.7  | 81.1  |
| 83  | 84.4  | 59.7  | 110.9 |
| 85  | 52.9  | 38.6  | 71.6  |

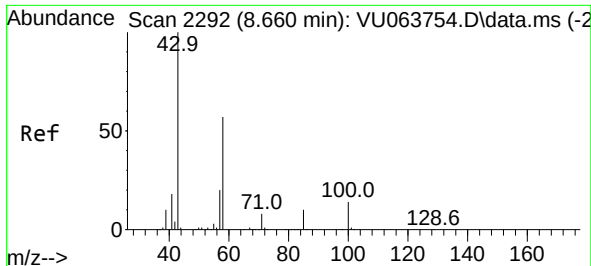


#46  
Tetrachloroethene  
Concen: 47.260 ug/L  
RT: 8.528 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 164 Resp: 106214

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 96.8  | 68.5  | 127.3 |
| 131 | 95.9  | 64.3  | 119.3 |
| 166 | 128.3 | 89.5  | 166.1 |

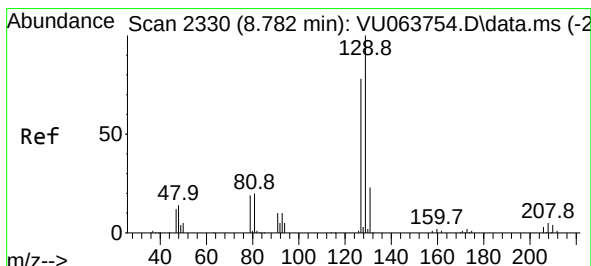
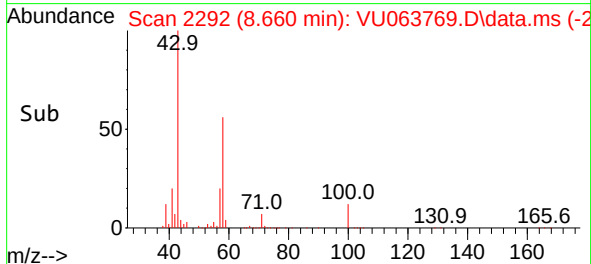
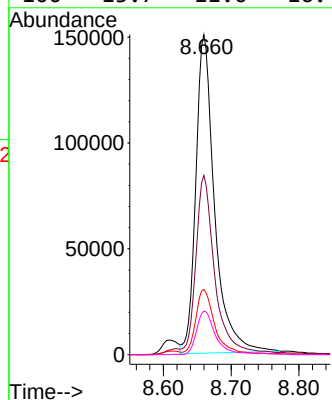
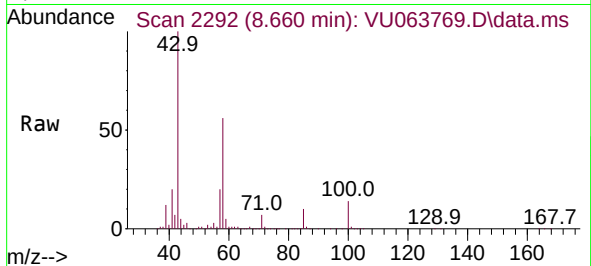




#48  
2-Hexanone  
Concen: 96.382 ug/L  
RT: 8.660 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

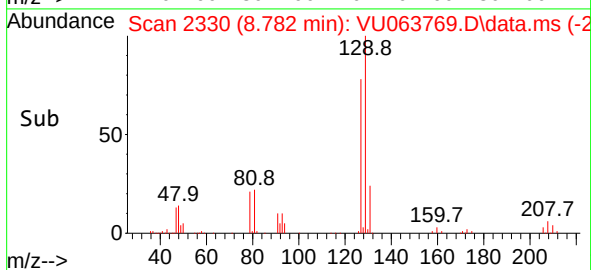
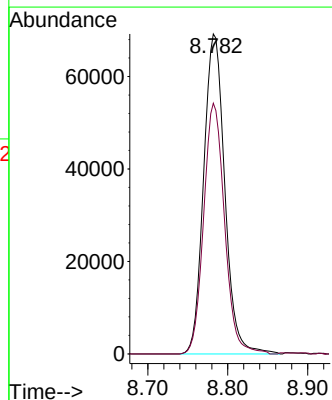
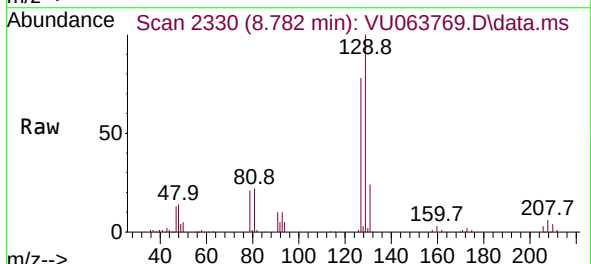
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

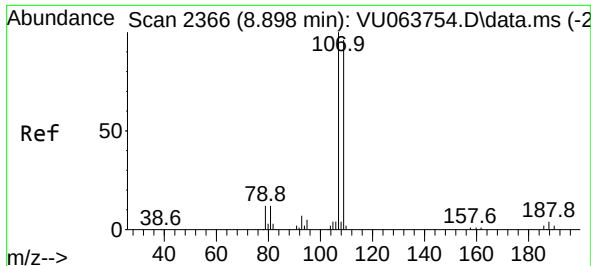
Tgt Ion: 43 Resp: 290095  
Ion Ratio Lower Upper  
43 100  
58 55.4 44.8 67.2  
57 19.8 16.6 24.8  
100 13.7 11.0 16.4



#49  
Dibromochloromethane  
Concen: 46.881 ug/L  
RT: 8.782 min Scan# 2330  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 129 Resp: 126850  
Ion Ratio Lower Upper  
129 100  
127 78.3 53.4 99.2





#50

1,2-Dibromoethane

Concen: 47.915 ug/L

RT: 8.898 min Scan# 2366

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

M-31SMSD

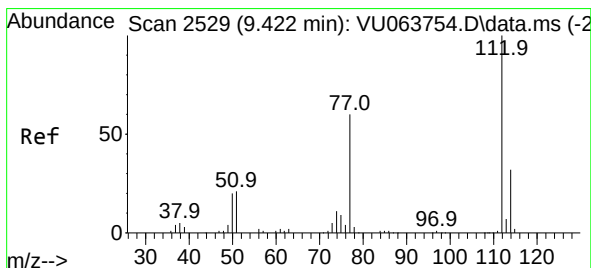
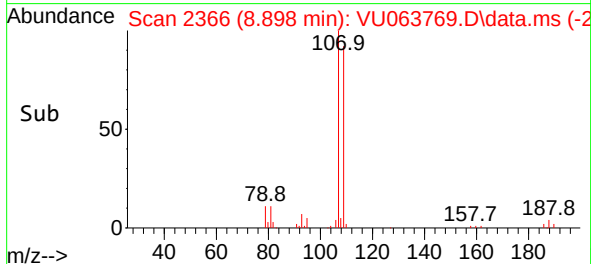
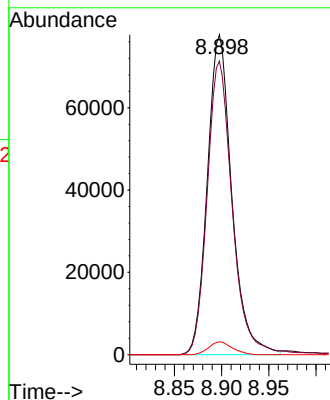
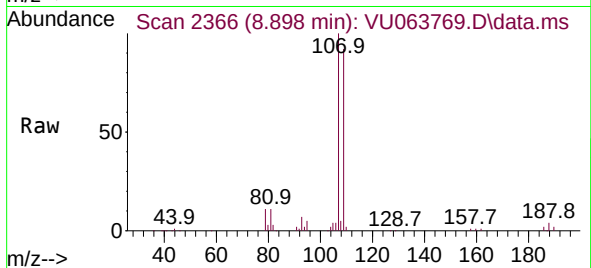
Tgt Ion:107 Resp: 140914

Ion Ratio Lower Upper

107 100

109 91.7 65.8 122.2

188 4.0 3.2 4.8



#51

Chlorobenzene

Concen: 48.125 ug/L

RT: 9.422 min Scan# 2529

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

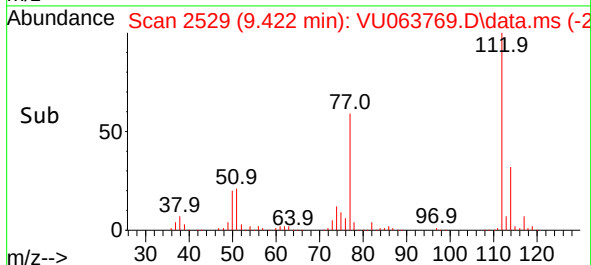
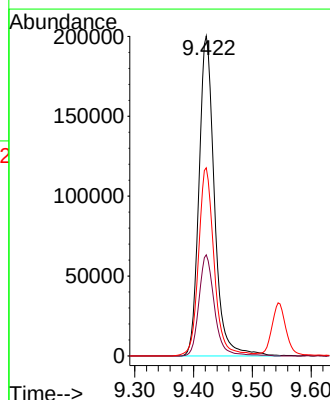
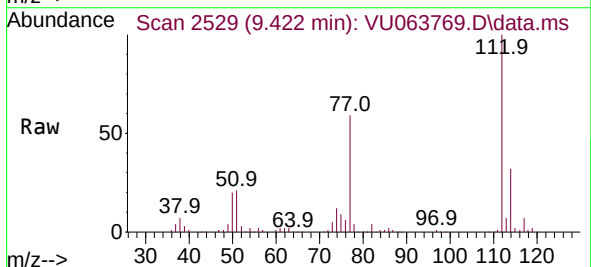
Tgt Ion:112 Resp: 365504

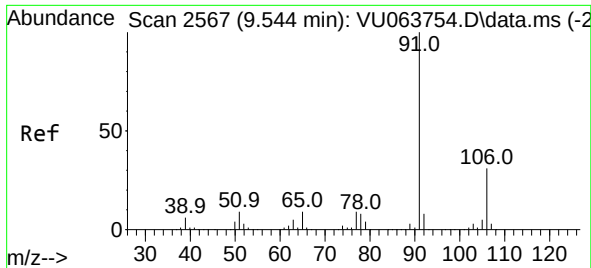
Ion Ratio Lower Upper

112 100

114 31.6 22.1 41.1

77 58.8 48.0 72.0

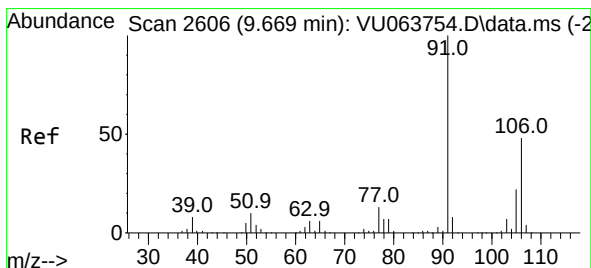
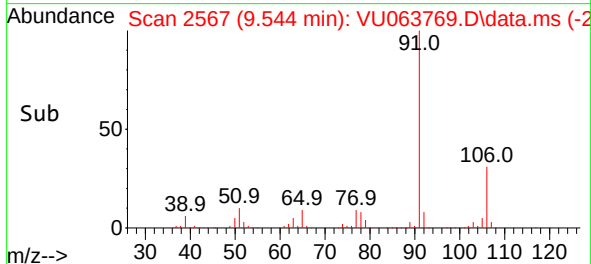
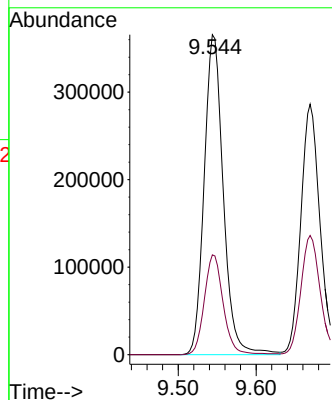
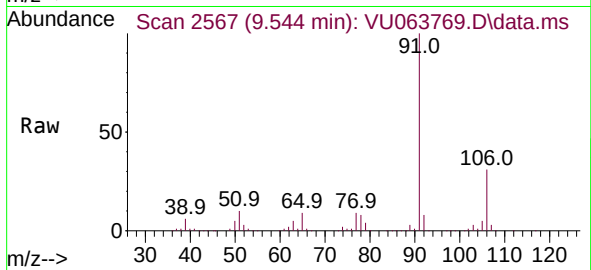




#52  
Ethylbenzene  
Concen: 47.636 ug/L  
RT: 9.544 min Scan# 2567  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

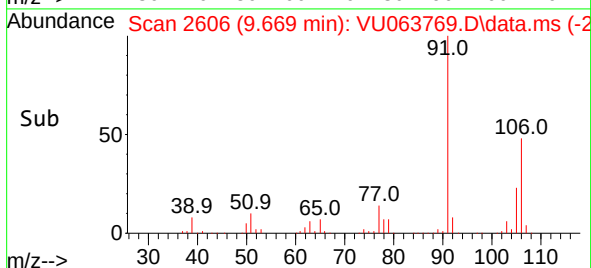
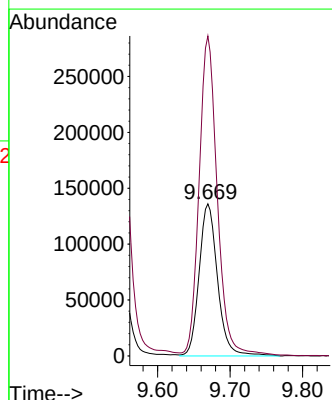
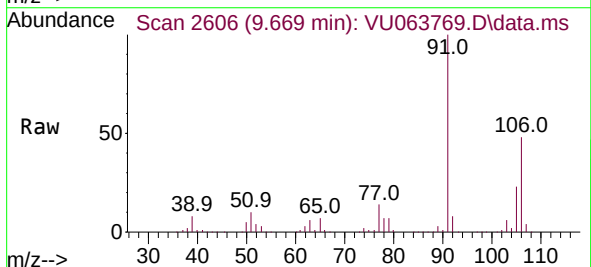
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

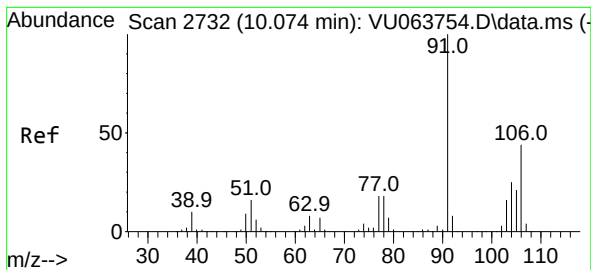
Tgt Ion: 91 Resp: 622514  
Ion Ratio Lower Upper  
91 100  
106 31.2 21.3 39.6



#53  
m,p-Xylene  
Concen: 48.216 ug/L  
RT: 9.669 min Scan# 2606  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 106 Resp: 240158  
Ion Ratio Lower Upper  
106 100  
91 210.3 143.6 266.6





#54

o-Xylene

Concen: 48.349 ug/L

RT: 10.074 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

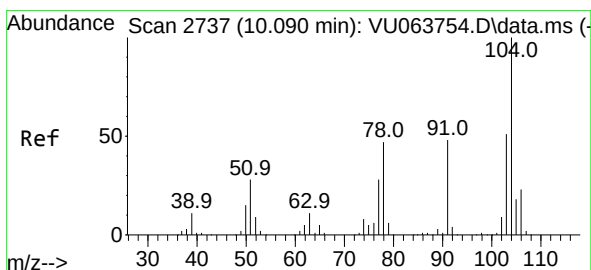
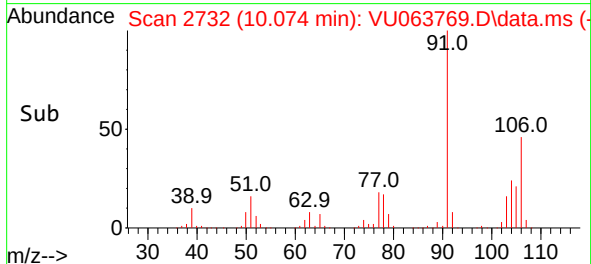
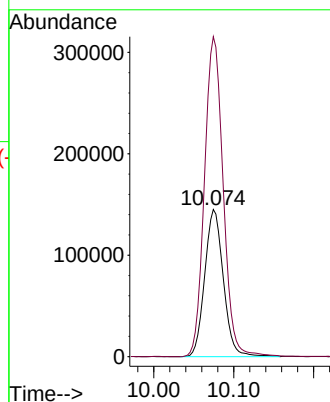
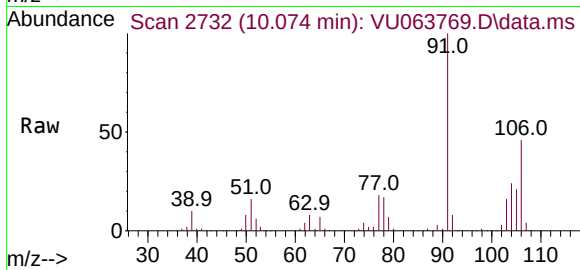
M-31SMSD

Tgt Ion:106 Resp: 234522

Ion Ratio Lower Upper

106 100

91 217.6 156.0 289.6



#55

Styrene

Concen: 49.699 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. 0.000 min

Lab File: VU063769.D

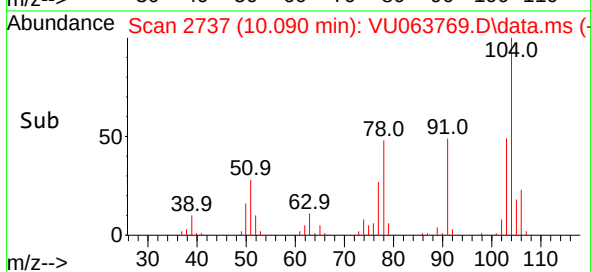
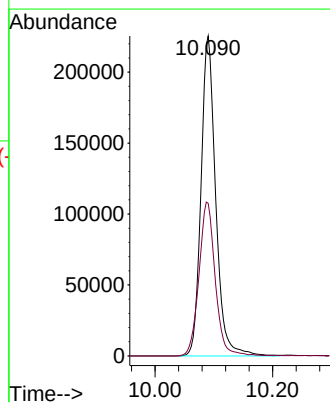
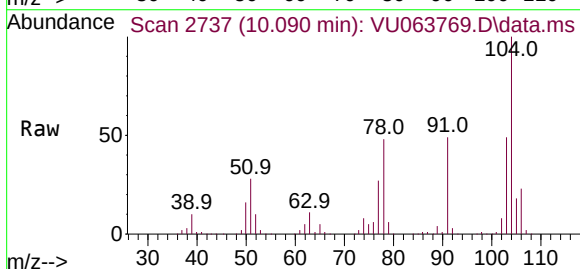
Acq: 21 Nov 2025 14:57

Tgt Ion:104 Resp: 390606

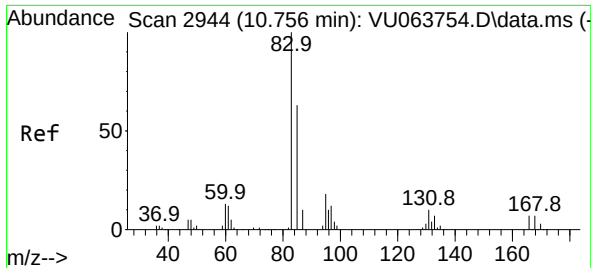
Ion Ratio Lower Upper

104 100

78 47.7 32.0 59.4



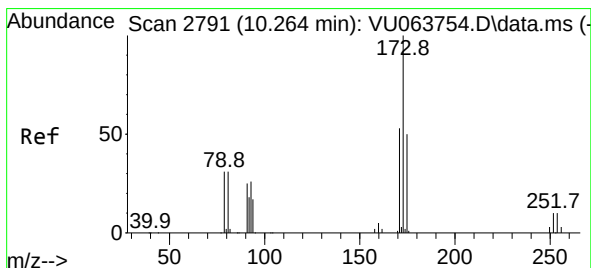
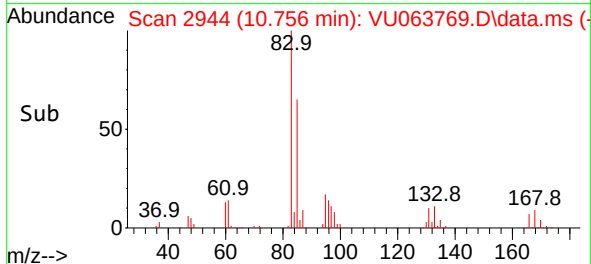
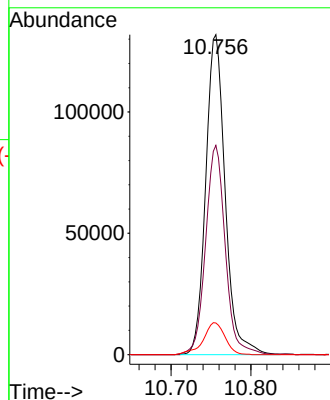
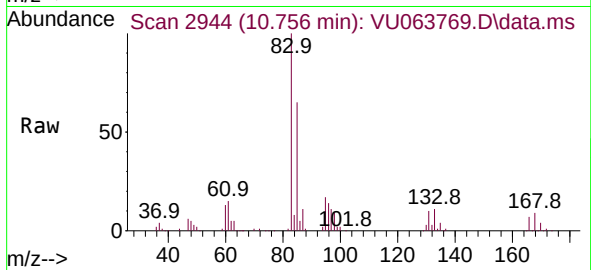




#57  
1,1,2,2-Tetrachloroethane  
Concen: 48.714 ug/L  
RT: 10.756 min Scan# 2944  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

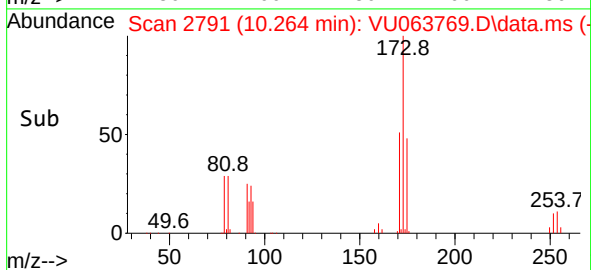
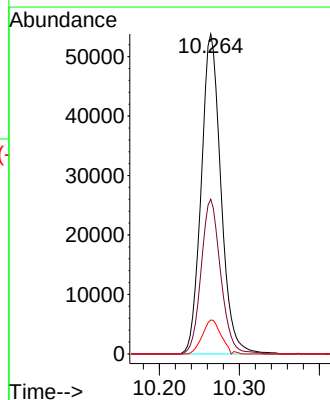
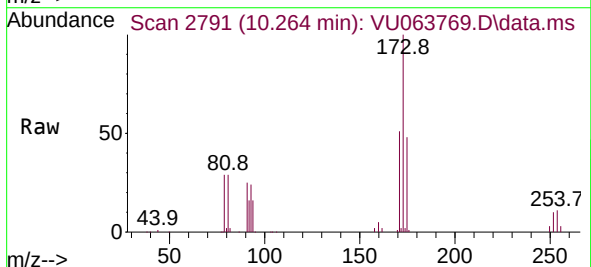
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

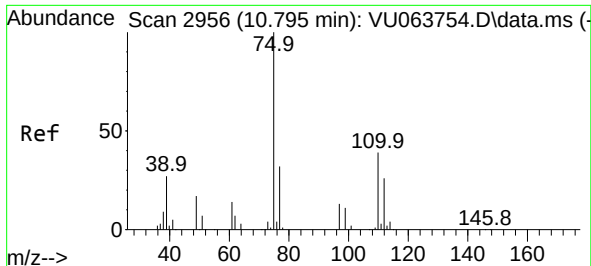
Tgt Ion: 83 Resp: 222297  
Ion Ratio Lower Upper  
83 100  
85 65.4 45.7 84.9  
131 9.9 7.4 11.2



#59  
Bromoform  
Concen: 44.479 ug/L  
RT: 10.264 min Scan# 2791  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 173 Resp: 91801  
Ion Ratio Lower Upper  
173 100  
175 47.9 38.2 57.4  
254 9.9 6.9 10.3

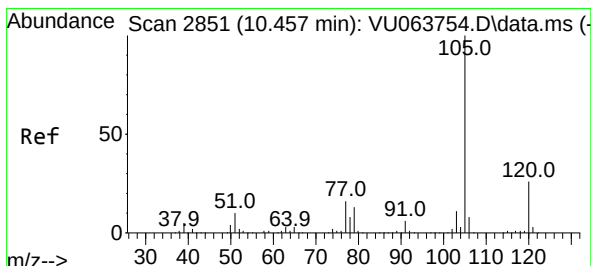
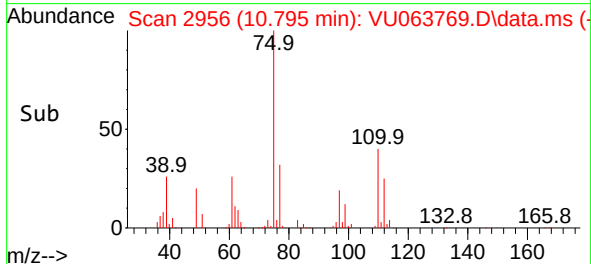
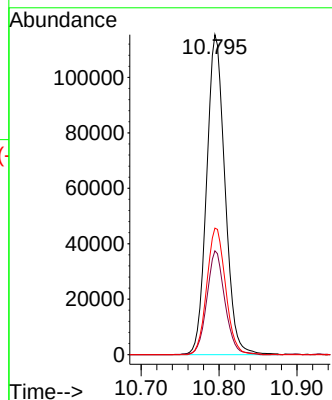
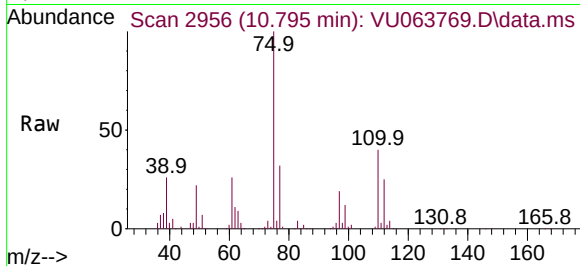




#60  
1,2,3-Trichloropropane  
Concen: 47.515 ug/L  
RT: 10.795 min Scan# 2956  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

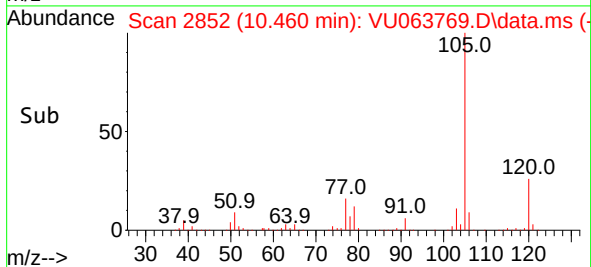
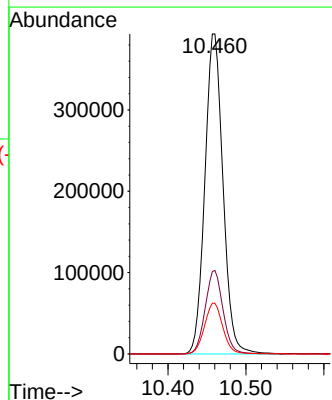
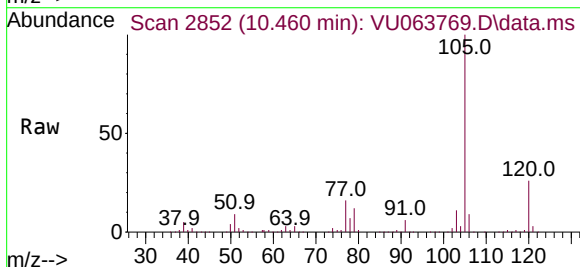
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

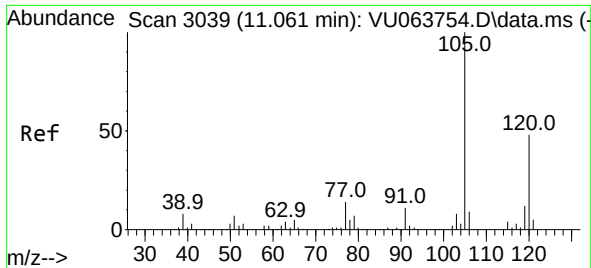
Tgt Ion: 75 Resp: 188477  
Ion Ratio Lower Upper  
75 100  
77 31.9 26.1 39.1  
110 40.3 32.3 48.5



#61  
Isopropylbenzene  
Concen: 46.299 ug/L  
RT: 10.460 min Scan# 2852  
Delta R.T. 0.003 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion: 105 Resp: 634787  
Ion Ratio Lower Upper  
105 100  
120 25.7 20.7 31.1  
77 16.0 12.9 19.3

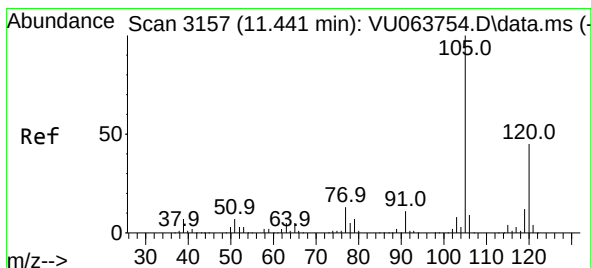
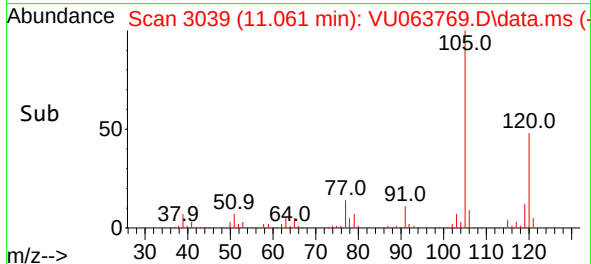
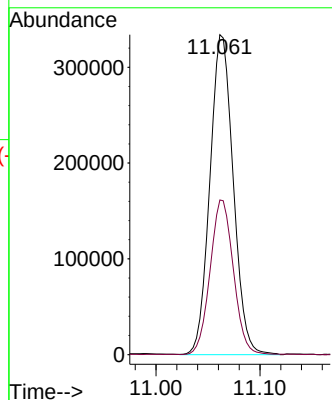
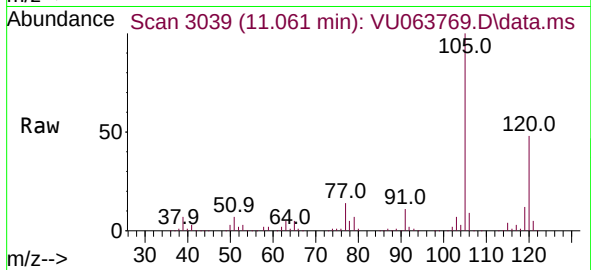




#62  
 1,3,5-Trimethylbenzene  
 Concen: 46.192 ug/L  
 RT: 11.061 min Scan# 3039  
 Delta R.T. 0.000 min  
 Lab File: VU063769.D  
 Acq: 21 Nov 2025 14:57

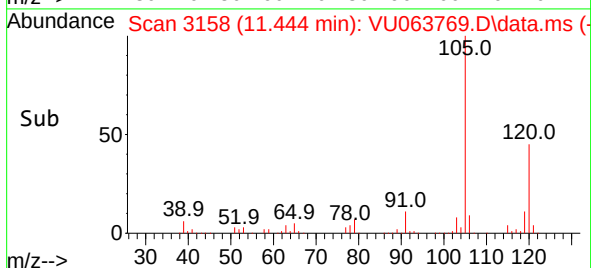
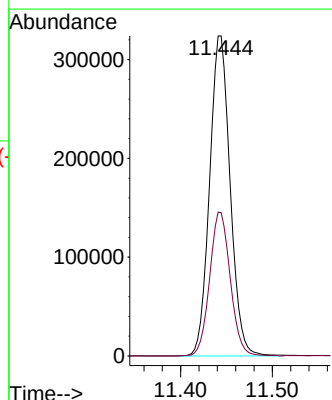
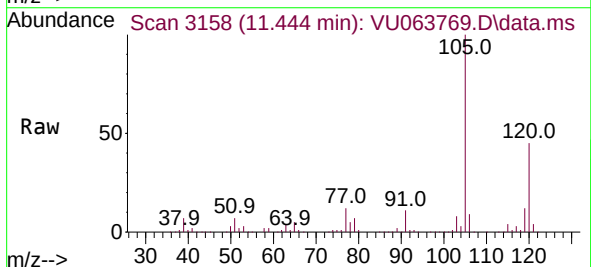
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 M-31SMSD

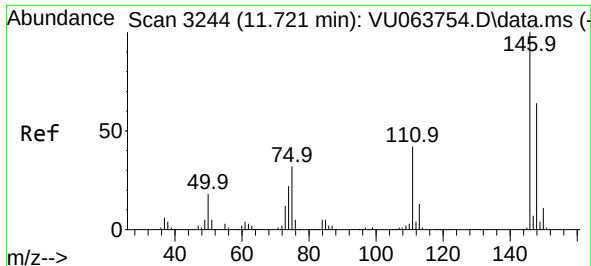
Tgt Ion:105 Resp: 520959  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 37.8 56.6



#63  
 1,2,4-Trimethylbenzene  
 Concen: 46.845 ug/L  
 RT: 11.444 min Scan# 3158  
 Delta R.T. 0.003 min  
 Lab File: VU063769.D  
 Acq: 21 Nov 2025 14:57

Tgt Ion:105 Resp: 504302  
 Ion Ratio Lower Upper  
 105 100  
 120 44.9 35.6 53.4

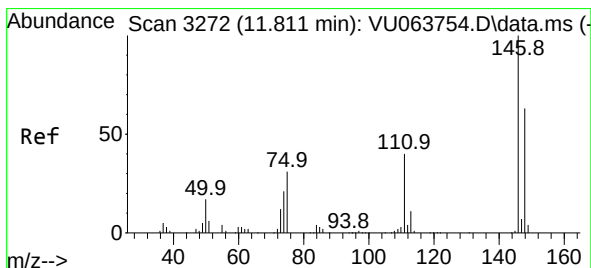
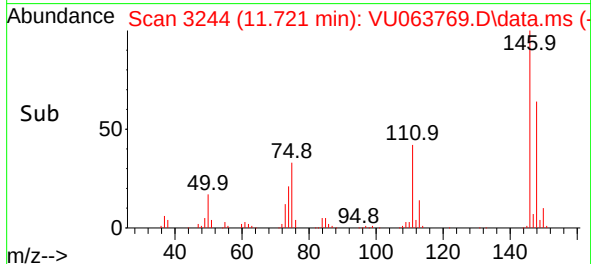
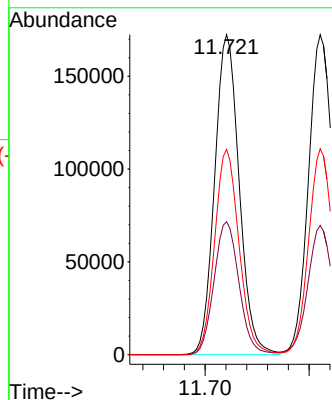
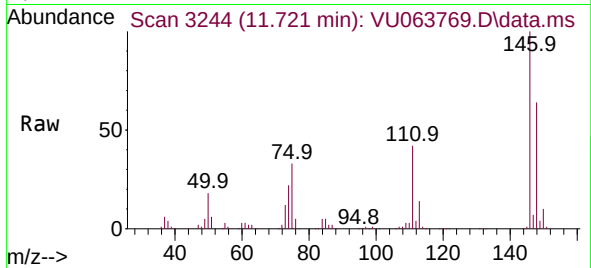




#64  
1,3-Dichlorobenzene  
Concen: 46.037 ug/L  
RT: 11.721 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

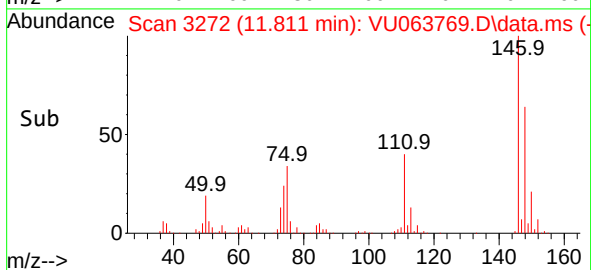
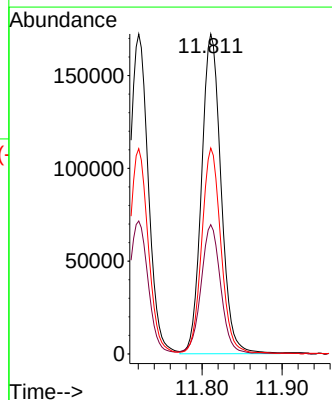
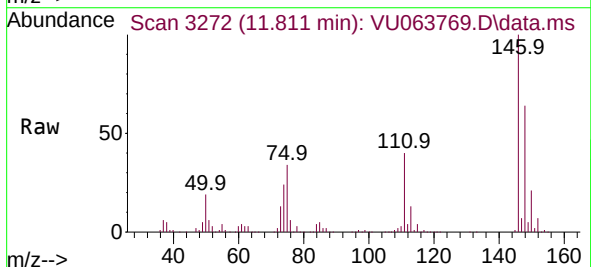
Instrument :  
MSVOA\_U  
ClientSampleId :  
M-31SMSD

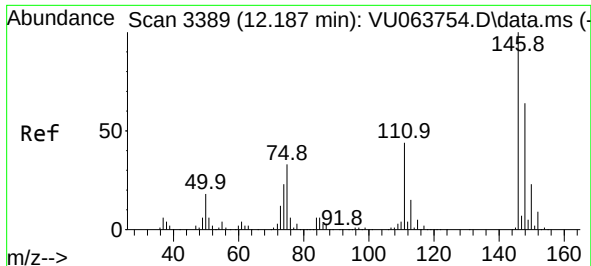
Tgt Ion:146 Resp: 282971  
Ion Ratio Lower Upper  
146 100  
111 41.5 29.8 55.3  
148 64.1 44.4 82.4



#65  
1,4-Dichlorobenzene  
Concen: 46.296 ug/L  
RT: 11.811 min Scan# 3272  
Delta R.T. 0.000 min  
Lab File: VU063769.D  
Acq: 21 Nov 2025 14:57

Tgt Ion:146 Resp: 291460  
Ion Ratio Lower Upper  
146 100  
111 40.4 28.8 53.4  
148 64.4 44.9 83.3





#67

1,2-Dichlorobenzene

Concen: 46.592 ug/L

RT: 12.187 min Scan# 3389

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

M-31SMSD

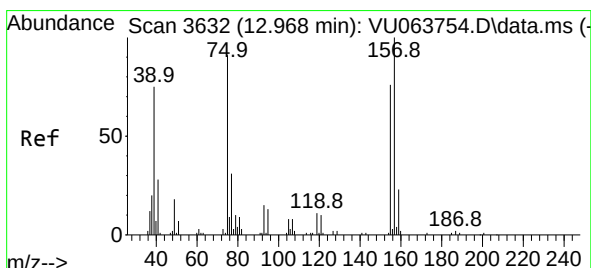
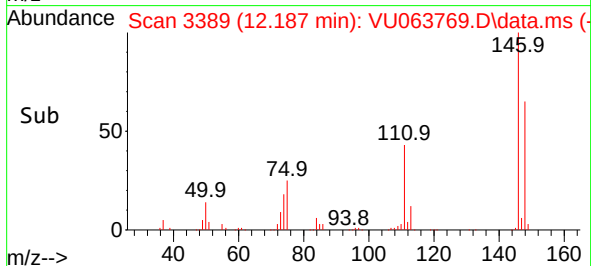
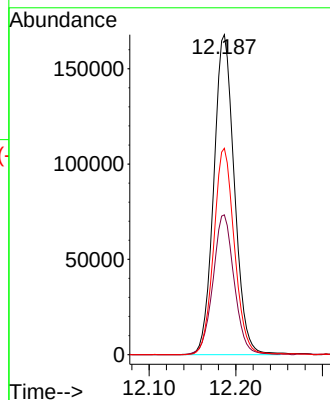
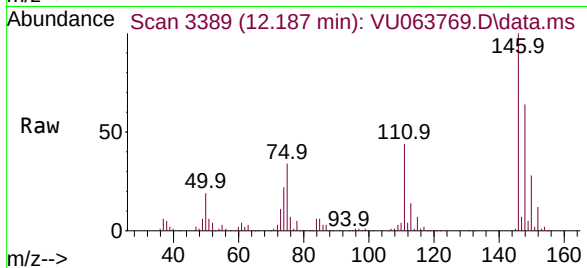
Tgt Ion:146 Resp: 277649

Ion Ratio Lower Upper

146 100

111 43.7 34.2 51.4

148 64.5 49.6 74.4



#68

1,2-Dibromo-3-chloropropane

Concen: 47.107 ug/L

RT: 12.965 min Scan# 3631

Delta R.T. -0.003 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

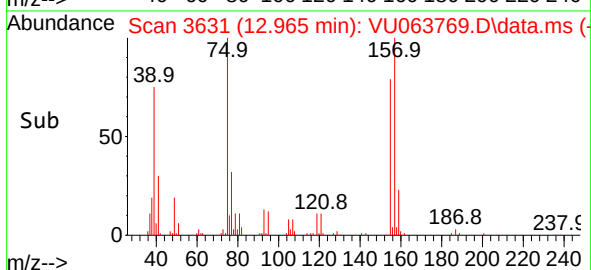
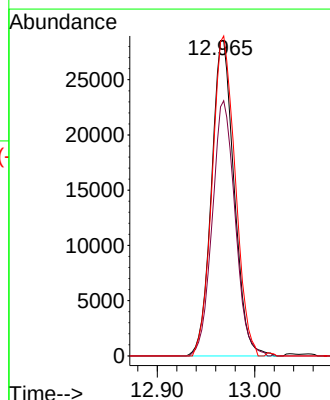
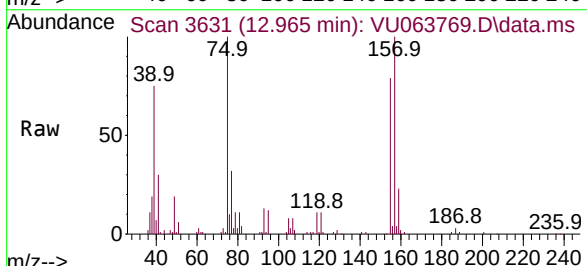
Tgt Ion: 75 Resp: 46141

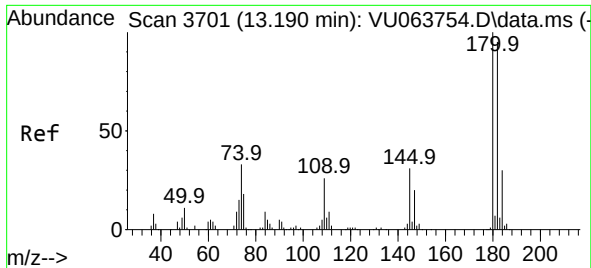
Ion Ratio Lower Upper

75 100

155 82.6 64.6 97.0

157 99.7 78.8 118.2

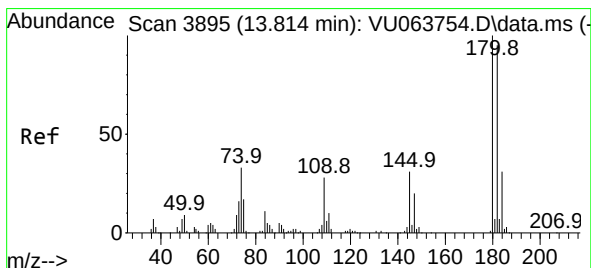
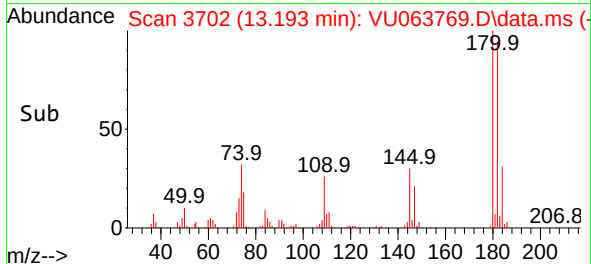
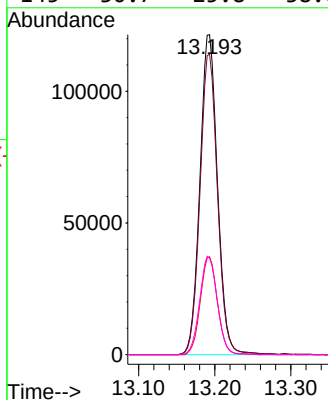
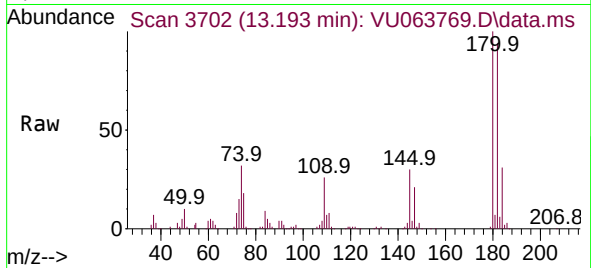




#69  
 1,3,5-Trichlorobenzene  
 Concen: 47.045 ug/L  
 RT: 13.193 min Scan# 3702  
 Delta R.T. 0.003 min  
 Lab File: VU063769.D  
 Acq: 21 Nov 2025 14:57

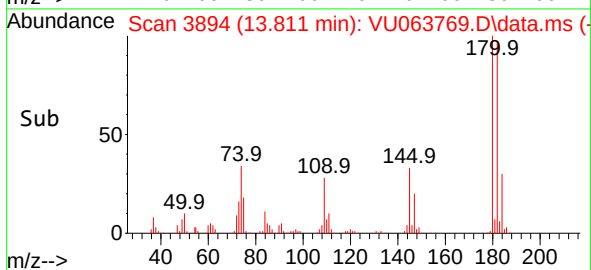
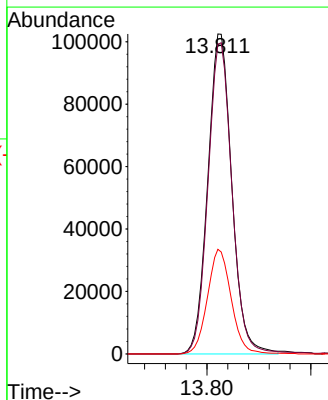
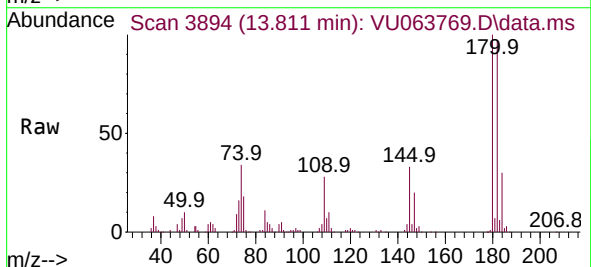
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 M-31SMSD

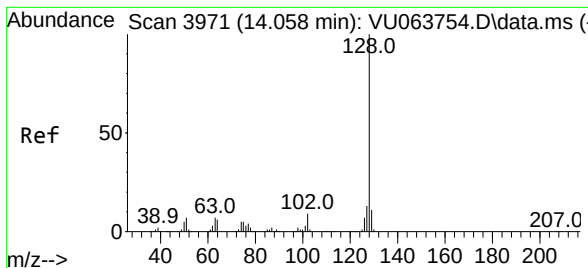
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 195440     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 93.3  | 76.4 114.6 |
| 184         | 29.4  | 24.4 36.6  |
| 145         | 30.7  | 25.8 38.6  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 47.558 ug/L  
 RT: 13.811 min Scan# 3894  
 Delta R.T. -0.003 min  
 Lab File: VU063769.D  
 Acq: 21 Nov 2025 14:57

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 164746     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 97.1  | 75.8 113.8 |
| 145         | 32.2  | 25.7 38.5  |





#71

Naphthalene

Concen: 55.819 ug/L

RT: 14.058 min Scan# 3971

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Instrument :

MSVOA\_U

ClientSampleId :

M-31SMSD

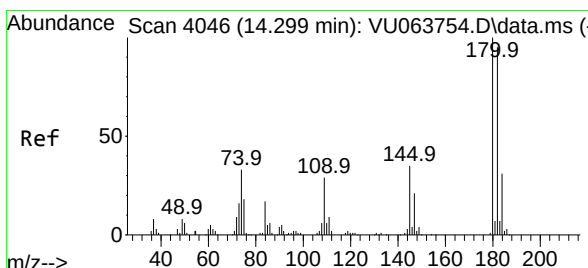
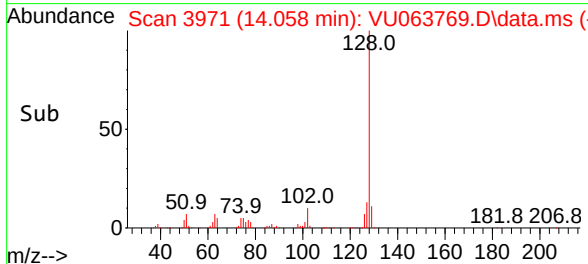
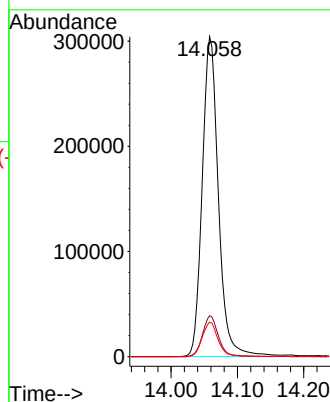
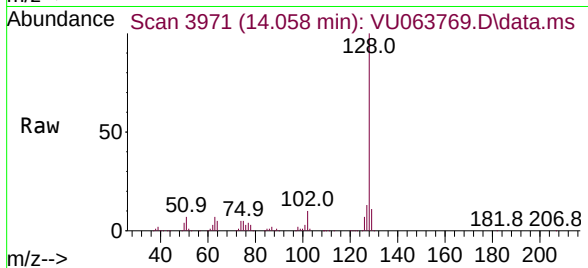
Tgt Ion:128 Resp: 514590

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

129 10.5 8.7 13.1



#72

1,2,3-Trichlorobenzene

Concen: 48.787 ug/L

RT: 14.299 min Scan# 4046

Delta R.T. 0.000 min

Lab File: VU063769.D

Acq: 21 Nov 2025 14:57

Tgt Ion:180 Resp: 160182

Ion Ratio Lower Upper

180 100

182 95.2 76.9 115.3

145 33.8 26.6 39.8

