

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021125\  
 Data File : VX044898.D  
 Acq On : 11 Feb 2025 12:11  
 Operator : JC/MD  
 Sample : Q1289-04ME  
 Misc : 5.08g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 12 02:39:50 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021025W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 11 03:41:08 2025  
 Response via : Initial Calibration

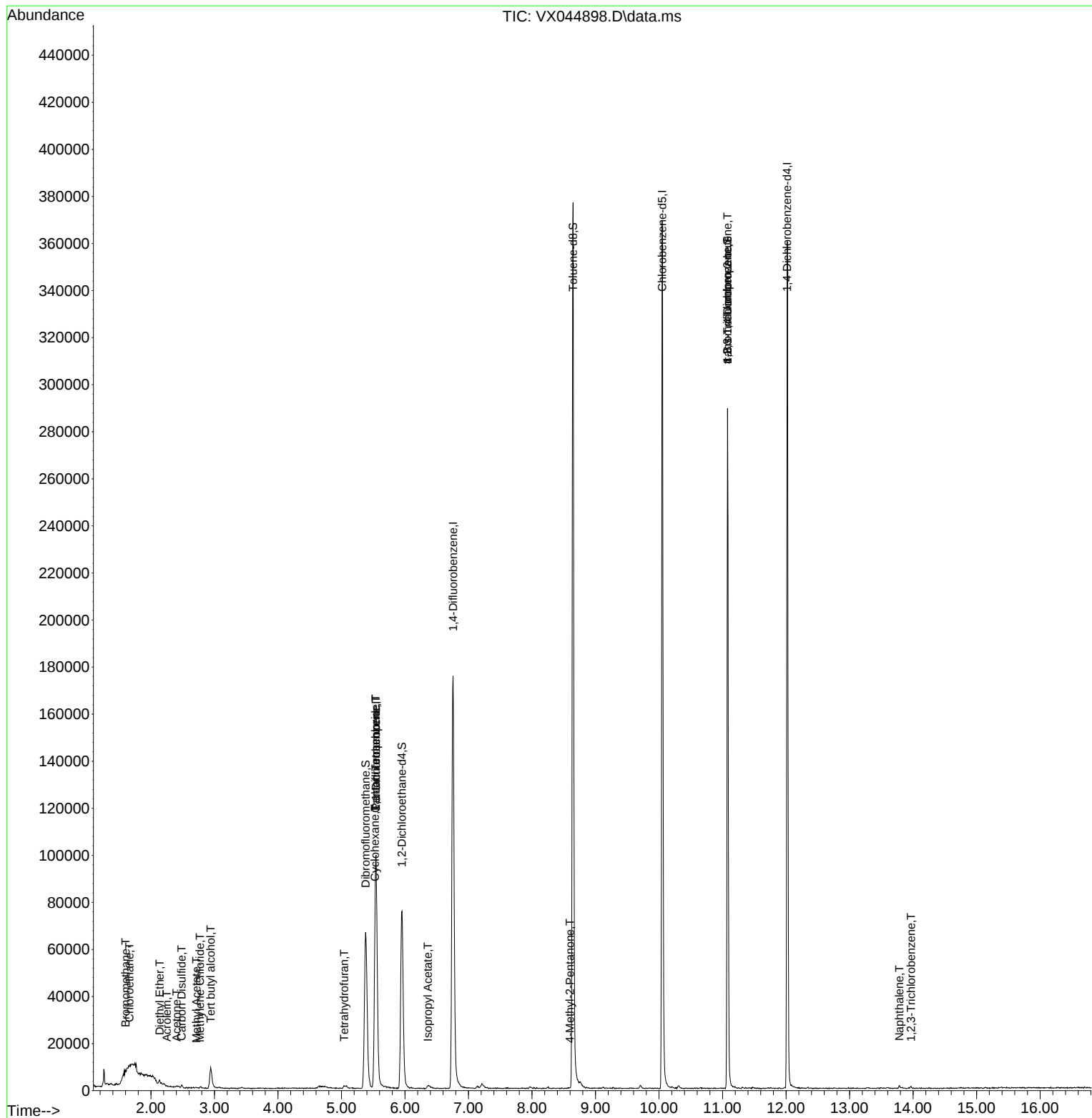
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.543  | 168   | 95409    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 191599   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117   | 170333   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 73984    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 72846    | 52.159   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 104.320% |          |
| 35) Dibromofluoromethane      | 5.379  | 113   | 61567    | 49.423   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 98.840%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 235387   | 49.970   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 99.940%  |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 79898    | 50.313   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 100.620% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 5) Bromomethane               | 1.599  | 94    | 123      | 0.261    | ug/l #     | 54       |
| 6) Chloroethane               | 1.660  | 64    | 191      | 1.591    | ug/l #     | 42       |
| 8) Diethyl Ether              | 2.136  | 74    | 309      | 0.427    | ug/l       | 66       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 6252     | 24.130   | ug/l #     | 74       |
| 13) Acrolein                  | 2.251  | 56    | 67       | 0.251    | ug/l       | 97       |
| 16) Acetone                   | 2.404  | 43    | 769      | 1.370    | ug/l #     | 72       |
| 17) Carbon Disulfide          | 2.483  | 76    | 1067     | 0.316    | ug/l       | 100      |
| 18) Methyl Acetate            | 2.715  | 43    | 448      | 0.253    | ug/l #     | 52       |
| 20) Methylene Chloride        | 2.770  | 84    | 349      | 0.254    | ug/l #     | 45       |
| 29) Tetrahydrofuran           | 5.043  | 42    | 1204     | 1.989    | ug/l #     | 71       |
| 31) Cyclohexane               | 5.525  | 56    | 2506     | 1.155    | ug/l #     | 46       |
| 36) 1,1-Dichloropropene       | 5.543  | 75    | 8244     | 4.587    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 5.537  | 117   | 9948     | 5.648    | ug/l #     | 14       |
| 43) Isopropyl Acetate         | 6.360  | 43    | 927      | 0.287    | ug/l #     | 61       |
| 51) 4-Methyl-2-Pentanone      | 8.598  | 43    | 437      | 0.223    | ug/l #     | 72       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 41255    | 25.150   | ug/l #     | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 41255    | 64.696   | ug/l #     | 11       |
| 95) Naphthalene               | 13.786 | 128   | 1424     | 0.267    | ug/l #     | 89       |
| 96) 1,2,3-Trichlorobenzene    | 13.969 | 180   | 318      | 0.214    | ug/l #     | 88       |
| -----                         |        |       |          |          |            |          |

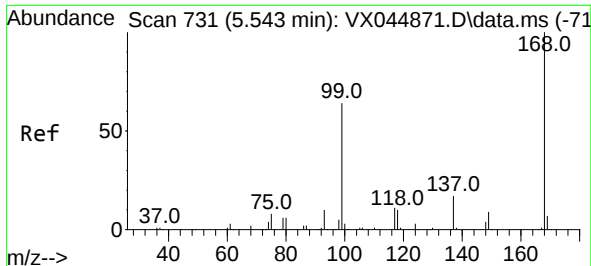
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Feb 11 03:41:08 2025  
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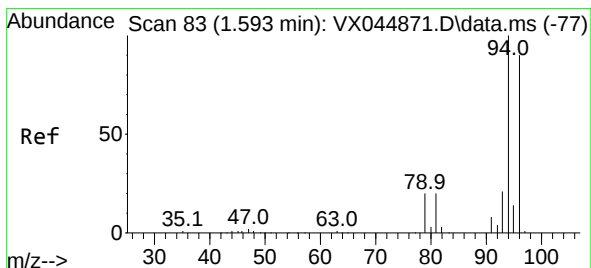
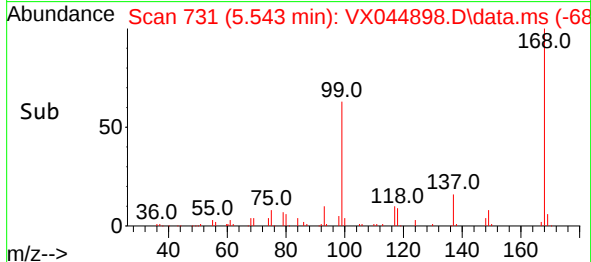
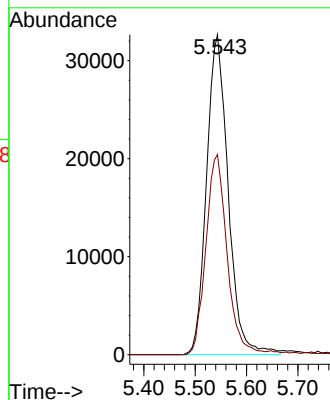
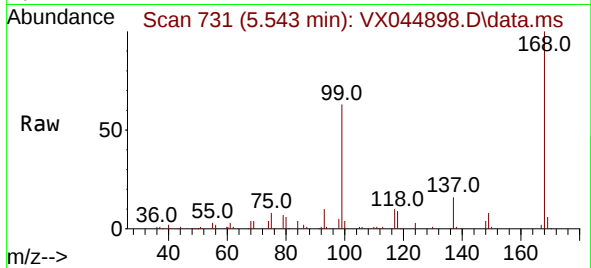




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.543 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

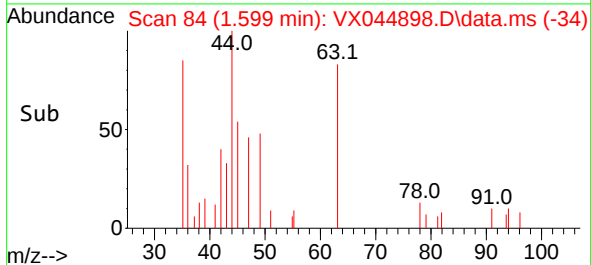
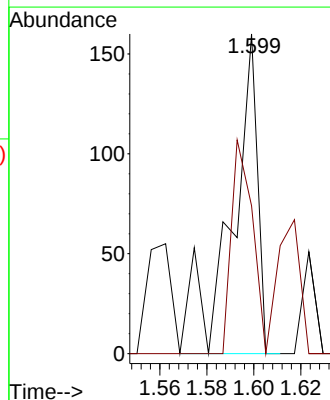
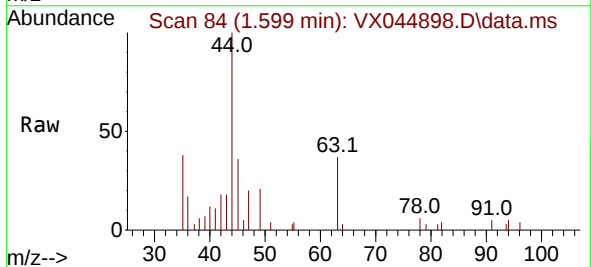
Instrument :  
MSVOA\_X  
ClientSampleId :

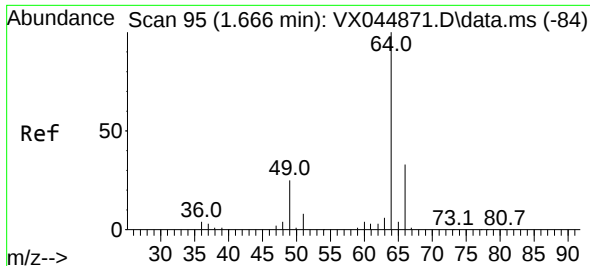
Tgt Ion:168 Resp: 95409  
Ion Ratio Lower Upper  
168 100  
99 62.6 51.2 76.8



#5  
Bromomethane  
Concen: 0.261 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

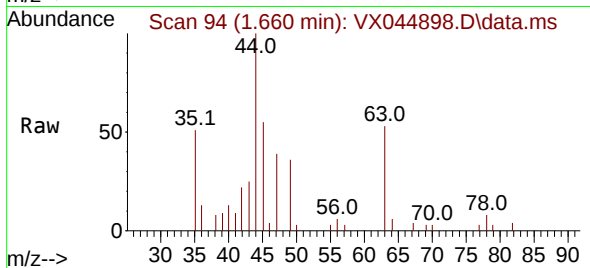
Tgt Ion: 94 Resp: 123  
Ion Ratio Lower Upper  
94 100  
96 46.3 71.6 107.4#



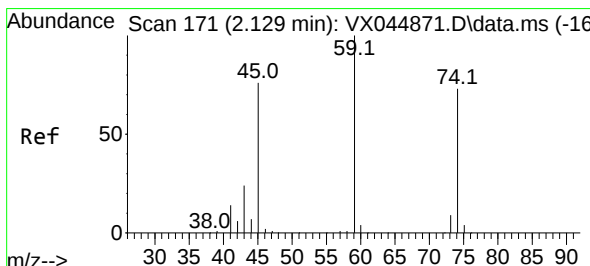
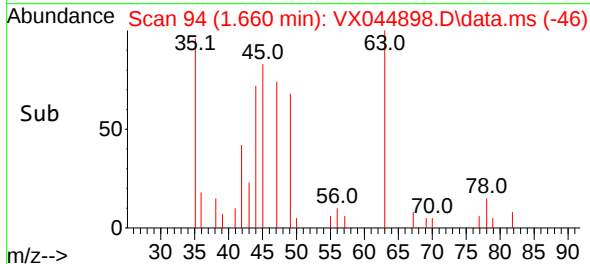
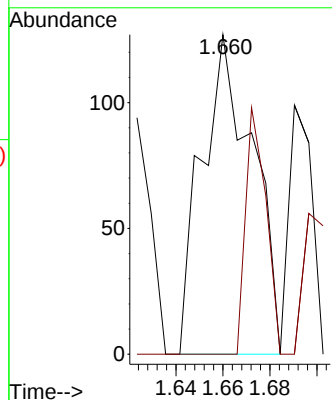


#6  
 Chloroethane  
 Concen: 1.591 ug/l  
 RT: 1.660 min Scan# 94  
 Delta R.T. -0.006 min  
 Lab File: VX044898.D  
 Acq: 11 Feb 2025 12:11

Instrument :  
 MSVOA\_X  
 ClientSampleId :

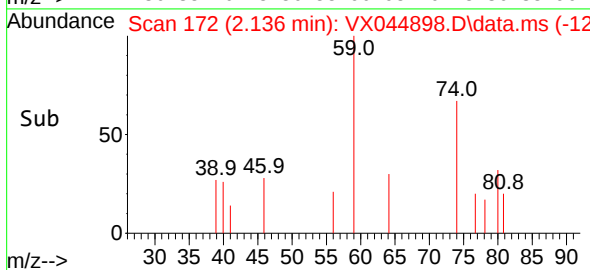
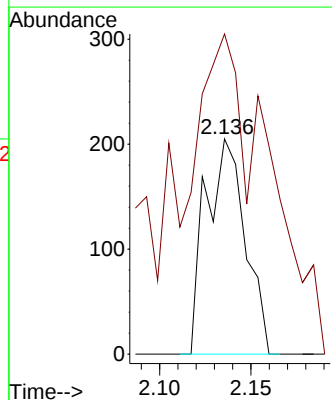
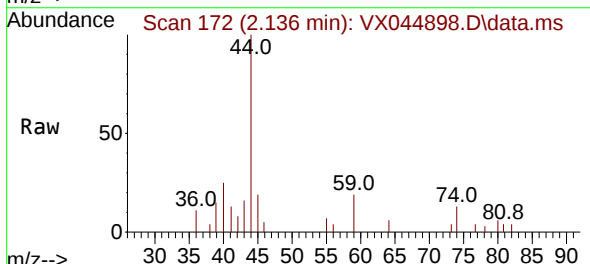


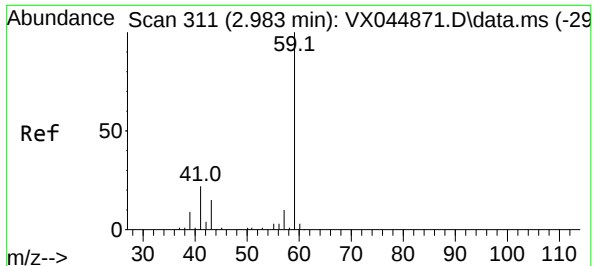
Tgt Ion: 64 Resp: 191  
 Ion Ratio Lower Upper  
 64 100  
 66 0.0 25.9 38.9#



#8  
 Diethyl Ether  
 Concen: 0.427 ug/l  
 RT: 2.136 min Scan# 172  
 Delta R.T. 0.006 min  
 Lab File: VX044898.D  
 Acq: 11 Feb 2025 12:11

Tgt Ion: 74 Resp: 309  
 Ion Ratio Lower Upper  
 74 100  
 45 136.9 51.1 153.4





#11

Tert butyl alcohol

Concen: 24.130 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.043 min

Lab File: VX044898.D

Acq: 11 Feb 2025 12:11

Instrument :

MSVOA\_X

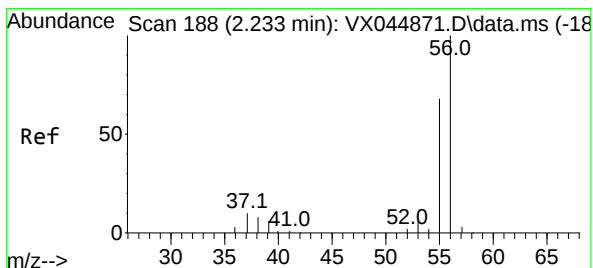
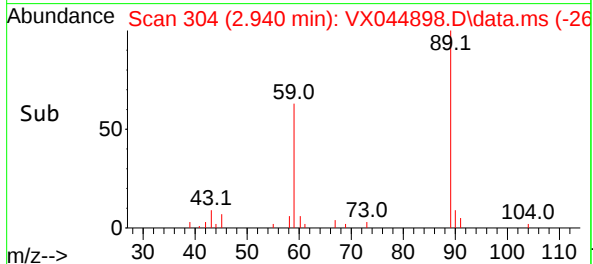
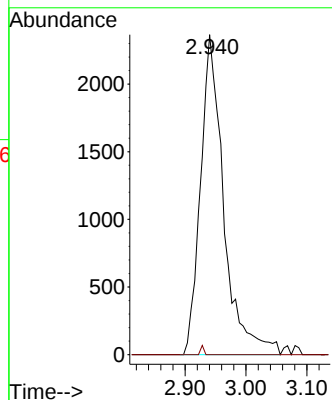
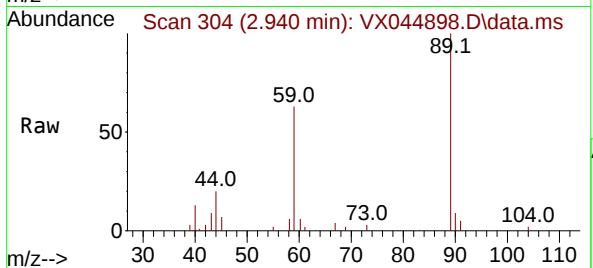
ClientSampleId :

Tgt Ion: 59 Resp: 6252

Ion Ratio Lower Upper

59 100

57 0.4 8.1 12.1#



#13

Acrolein

Concen: 0.251 ug/l

RT: 2.251 min Scan# 191

Delta R.T. 0.018 min

Lab File: VX044898.D

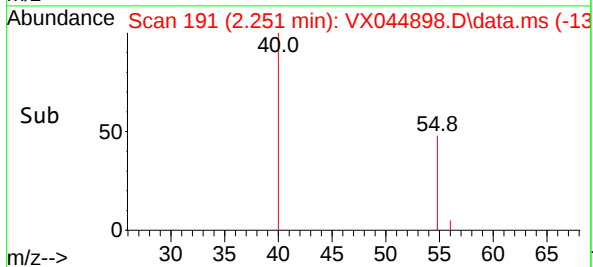
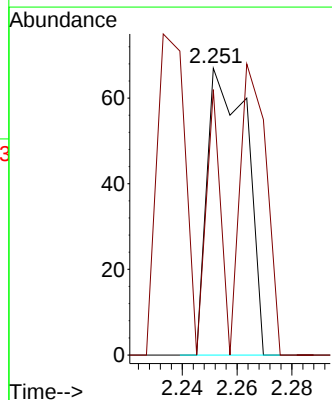
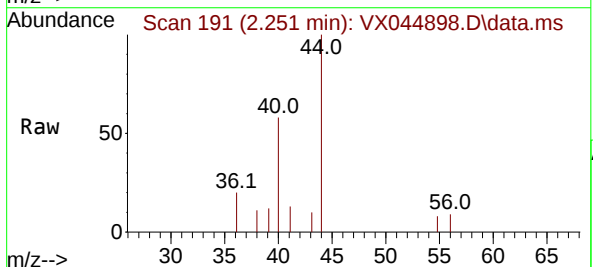
Acq: 11 Feb 2025 12:11

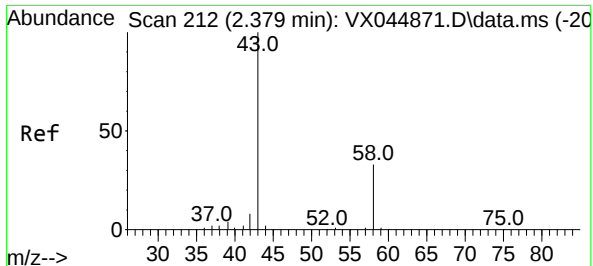
Tgt Ion: 56 Resp: 67

Ion Ratio Lower Upper

56 100

55 67.2 55.7 83.5

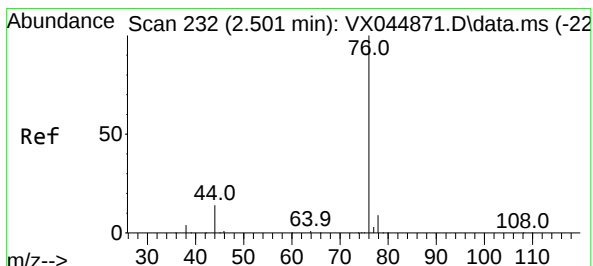
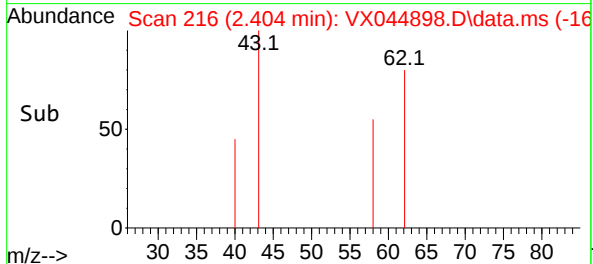
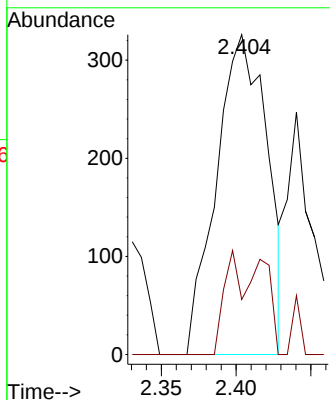
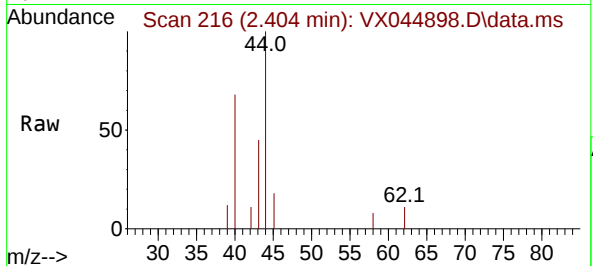




#16  
Acetone  
Concen: 1.370 ug/l  
RT: 2.404 min Scan# 211  
Delta R.T. 0.024 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

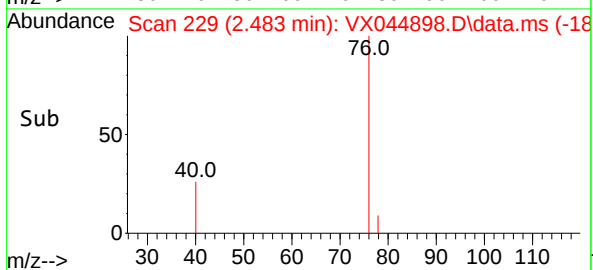
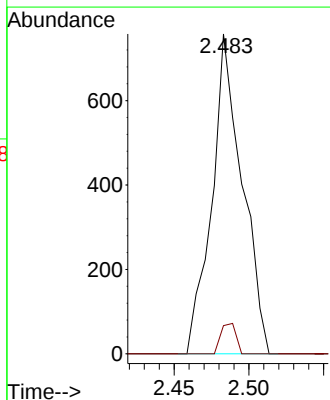
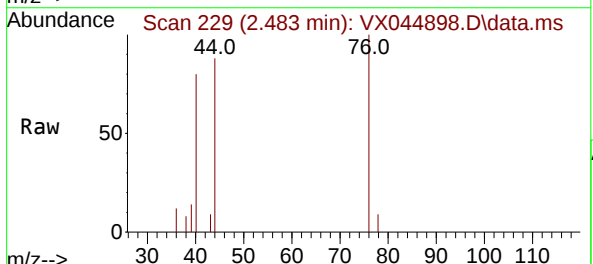
Instrument :  
MSVOA\_X  
ClientSampleId :

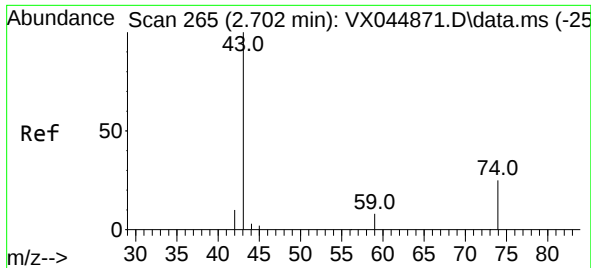
Tgt Ion: 43 Resp: 769  
Ion Ratio Lower Upper  
43 100  
58 17.2 26.5 39.7#



#17  
Carbon Disulfide  
Concen: 0.316 ug/l  
RT: 2.483 min Scan# 229  
Delta R.T. -0.018 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

Tgt Ion: 76 Resp: 1067  
Ion Ratio Lower Upper  
76 100  
78 8.8 7.0 10.4

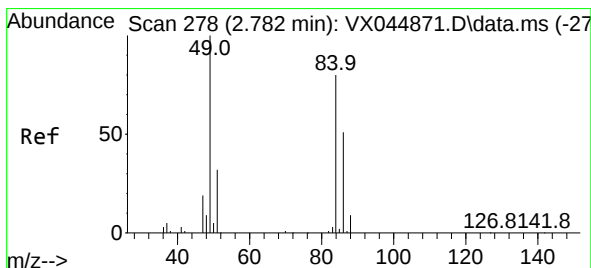
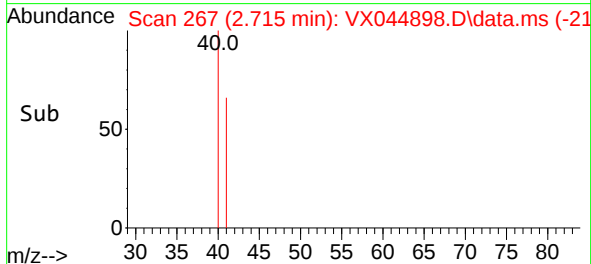
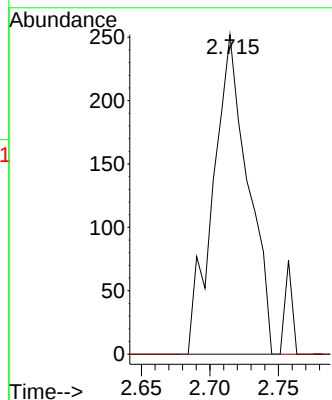
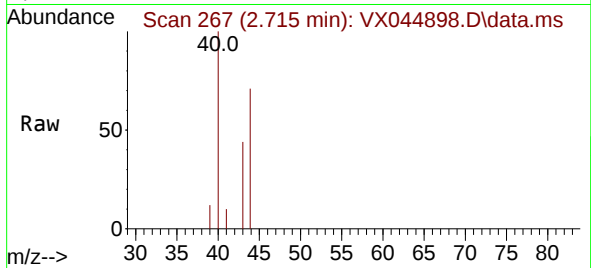




#18  
Methyl Acetate  
Concen: 0.253 ug/l  
RT: 2.715 min Scan# 20  
Delta R.T. 0.012 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

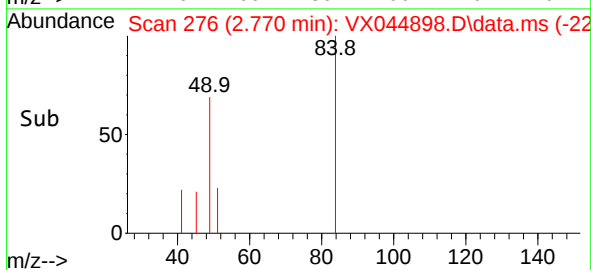
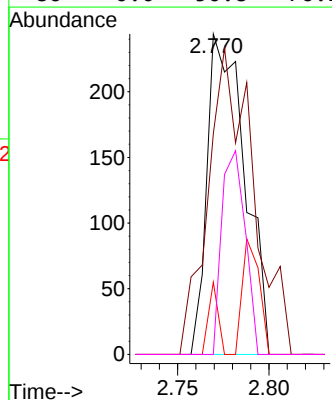
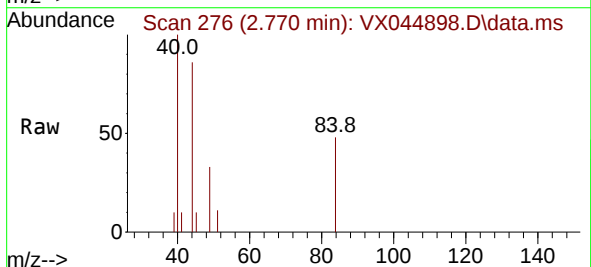
Instrument :  
MSVOA\_X  
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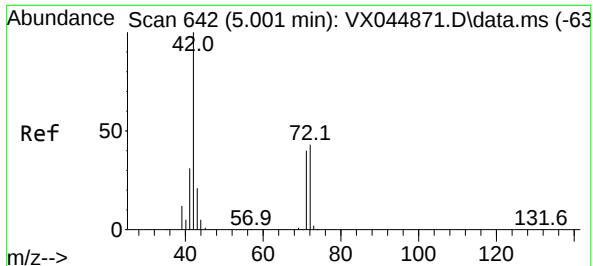
Tgt Ion: 43 Resp: 448  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.9 28.3#



#20  
Methylene Chloride  
Concen: 0.254 ug/l  
RT: 2.770 min Scan# 276  
Delta R.T. -0.012 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

Tgt Ion: 84 Resp: 349  
Ion Ratio Lower Upper  
84 100  
49 68.9 100.1 150.1#  
51 22.5 31.7 47.5#  
86 0.0 50.8 76.2#





#29

Tetrahydrofuran

Concen: 1.989 ug/l

RT: 5.043 min Scan# 642

Delta R.T. 0.043 min

Lab File: VX044898.D

Acq: 11 Feb 2025 12:11

Instrument :

MSVOA\_X

ClientSampleId :

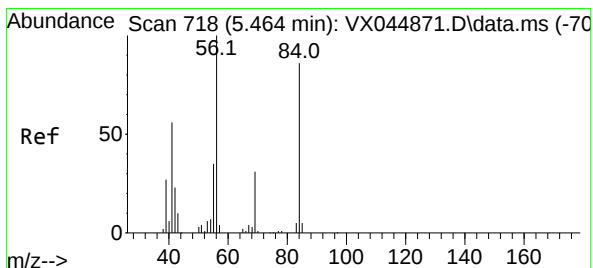
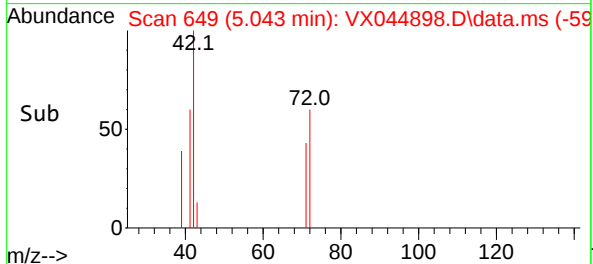
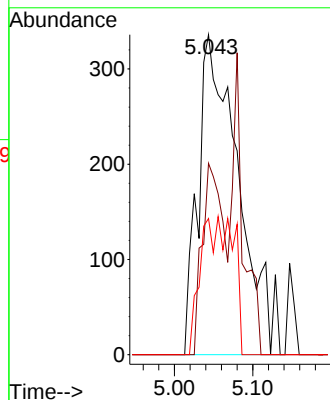
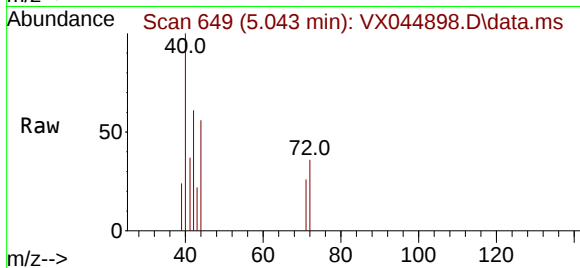
Tgt Ion: 42 Resp: 1204

Ion Ratio Lower Upper

42 100

72 31.1 35.0 52.4#

71 15.8 32.6 48.8#



#31

Cyclohexane

Concen: 1.155 ug/l

RT: 5.525 min Scan# 728

Delta R.T. 0.061 min

Lab File: VX044898.D

Acq: 11 Feb 2025 12:11

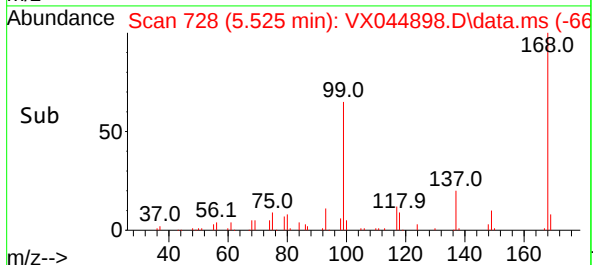
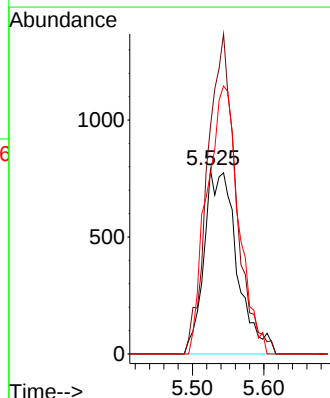
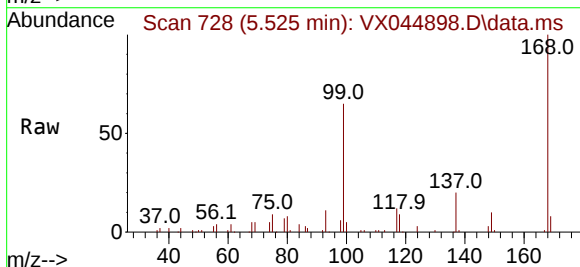
Tgt Ion: 56 Resp: 2506

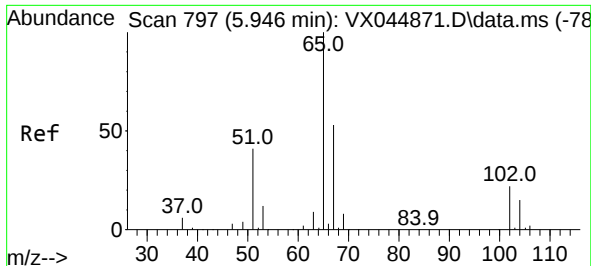
Ion Ratio Lower Upper

56 100

69 123.1 24.4 36.6#

84 98.0 69.0 103.6





#33

1,2-Dichloroethane-d4

Concen: 52.159 ug/l

RT: 5.952 min Scan# 797

Delta R.T. 0.006 min

Lab File: VX044898.D

Acq: 11 Feb 2025 12:11

Instrument :

MSVOA\_X

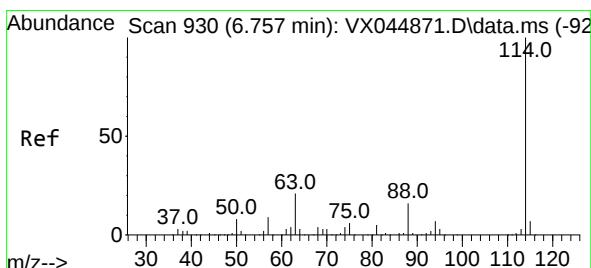
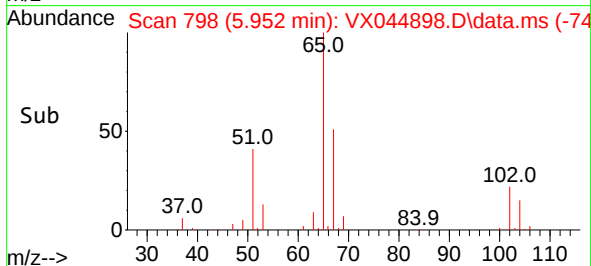
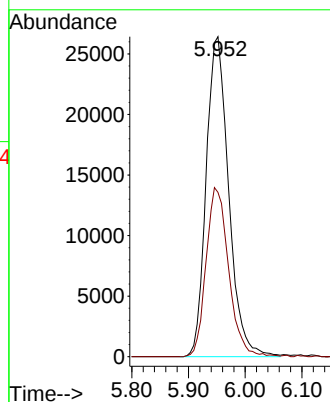
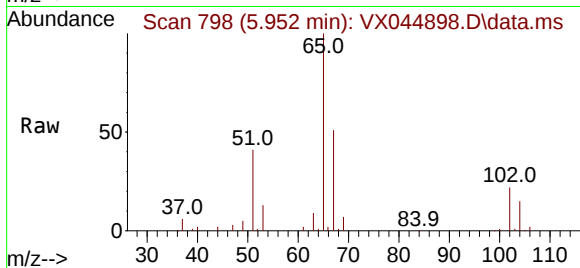
ClientSampleId :

Tgt Ion: 65 Resp: 72846

Ion Ratio Lower Upper

65 100

67 53.0 0.0 108.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044898.D

Acq: 11 Feb 2025 12:11

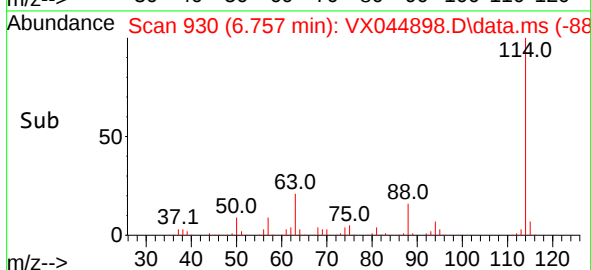
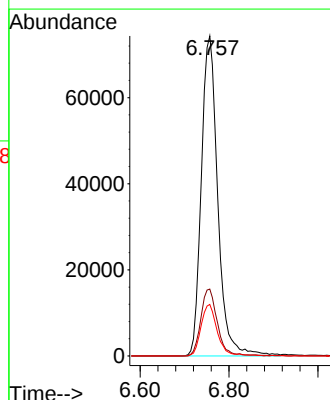
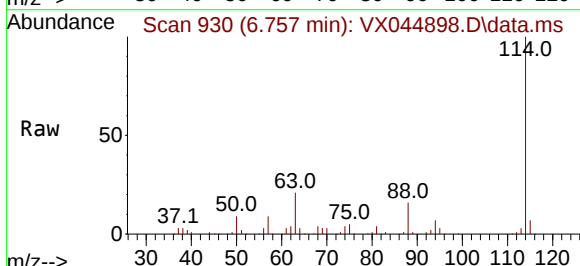
Tgt Ion: 114 Resp: 191599

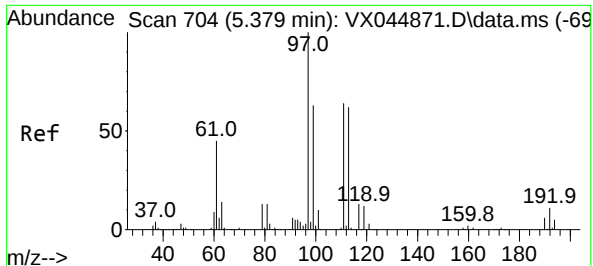
Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.4

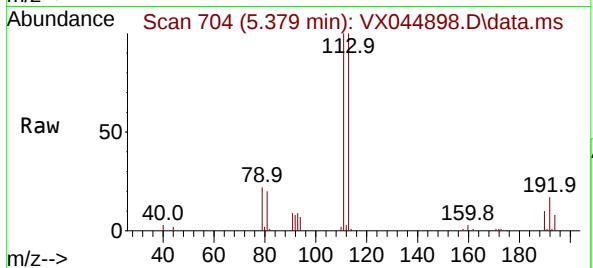
88 16.1 0.0 31.4



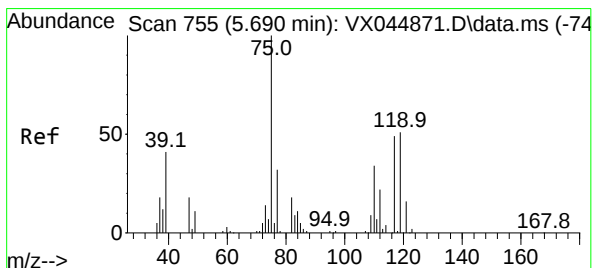
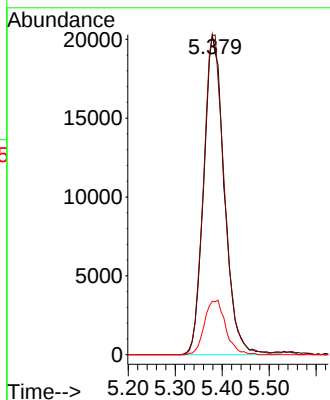
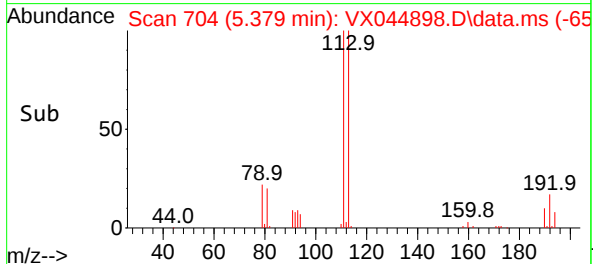


#35  
Dibromofluoromethane  
Concen: 49.423 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. 0.000 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

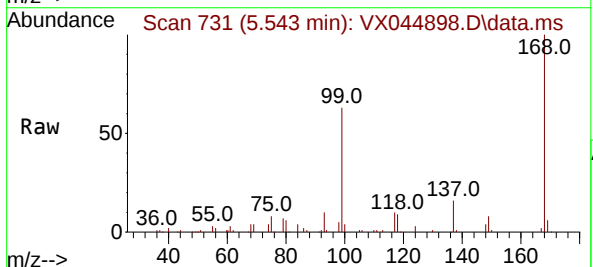
Instrument :  
MSVOA\_X  
ClientSampleId :



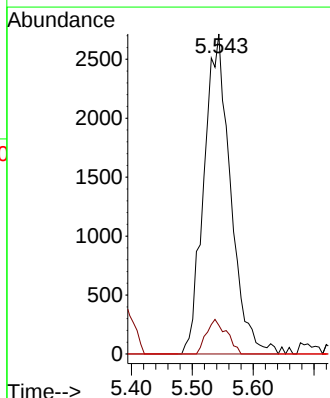
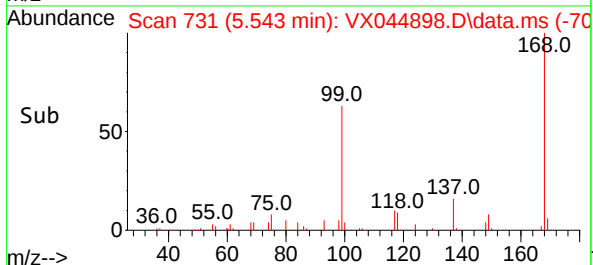
Tgt Ion:113 Resp: 61567  
Ion Ratio Lower Upper  
113 100  
111 100.9 83.5 125.3  
192 17.5 14.4 21.6

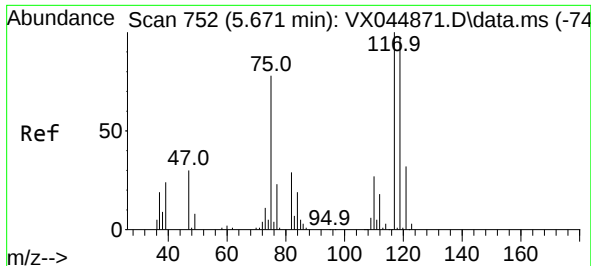


#36  
1,1-Dichloropropene  
Concen: 4.587 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. -0.146 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11



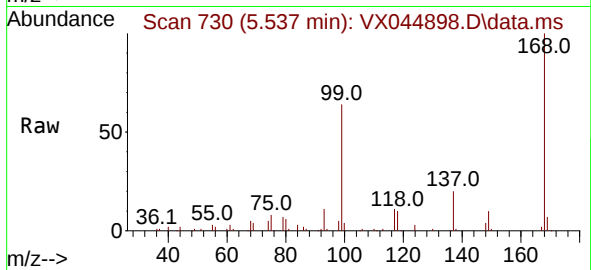
Tgt Ion: 75 Resp: 8244  
Ion Ratio Lower Upper  
75 100  
110 8.2 17.2 51.6#  
77 0.0 24.6 37.0#



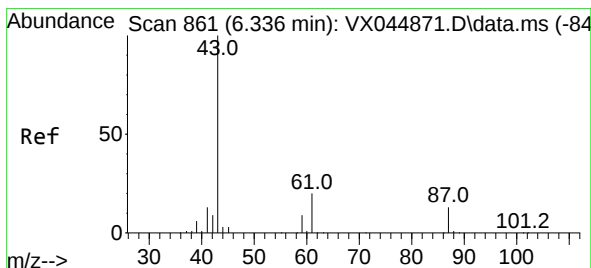
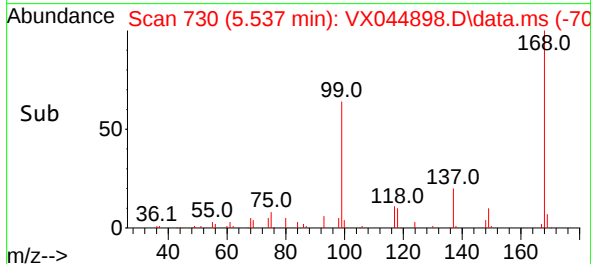
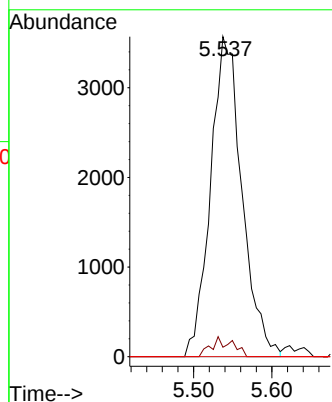


#38  
Carbon Tetrachloride  
Concen: 5.648 ug/l  
RT: 5.537 min Scan# 711  
Delta R.T. -0.134 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

Instrument :  
MSVOA\_X  
ClientSampleId :

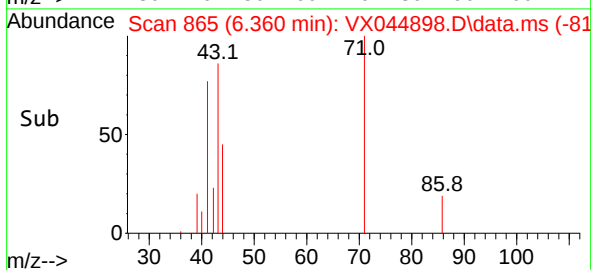
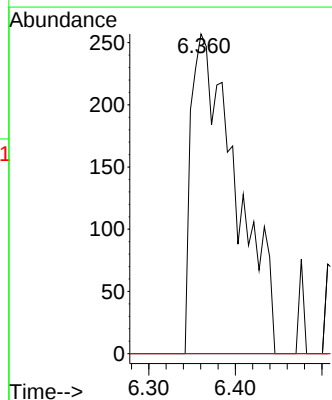
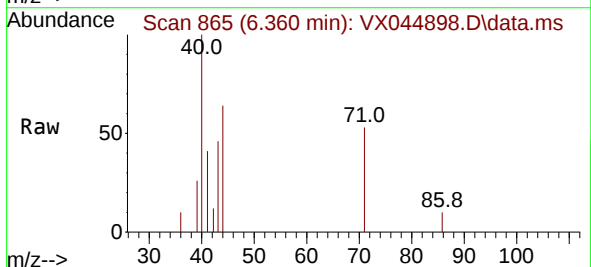


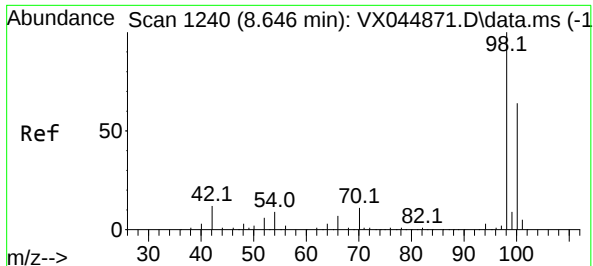
Tgt Ion:117 Resp: 9948  
Ion Ratio Lower Upper  
117 100  
119 2.9 77.5 116.3#  
121 0.0 25.6 38.4#



#43  
Isopropyl Acetate  
Concen: 0.287 ug/l  
RT: 6.360 min Scan# 865  
Delta R.T. 0.024 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

Tgt Ion: 43 Resp: 927  
Ion Ratio Lower Upper  
43 100  
61 0.0 15.8 23.8#  
87 0.0 10.0 15.0#





#50

Toluene-d8

Concen: 49.970 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044898.D

Acq: 11 Feb 2025 12:11

Instrument :

MSVOA\_X

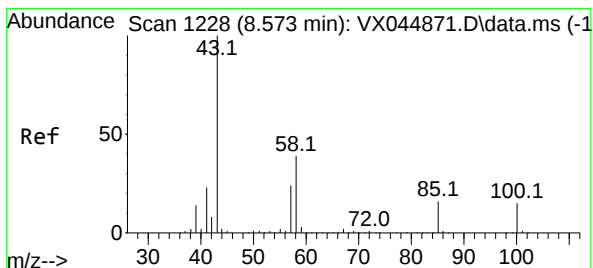
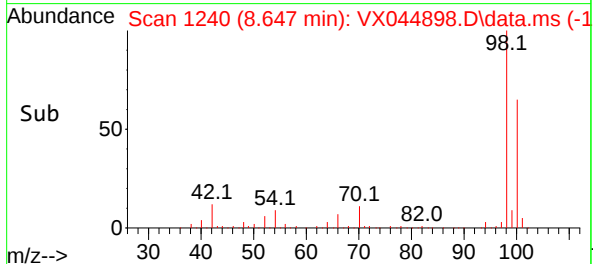
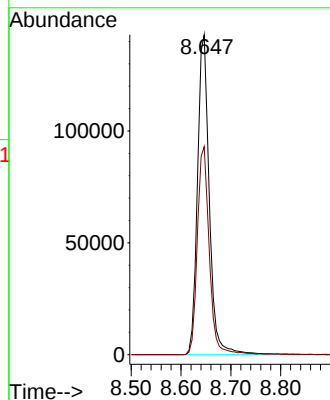
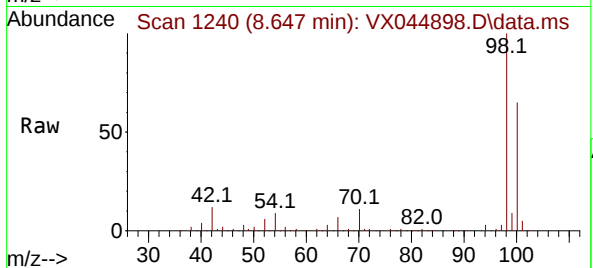
ClientSampleId :

Tgt Ion: 98 Resp: 235387

Ion Ratio Lower Upper

98 100

100 66.0 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 0.223 ug/l

RT: 8.598 min Scan# 1232

Delta R.T. 0.024 min

Lab File: VX044898.D

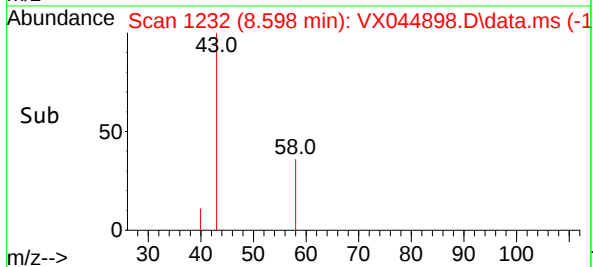
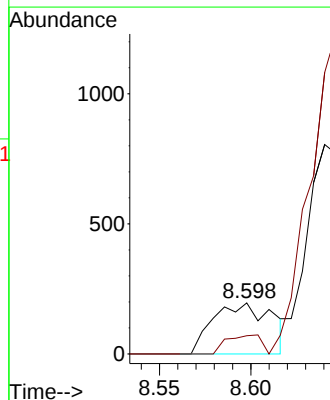
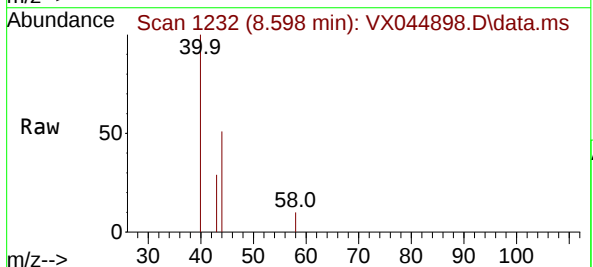
Acq: 11 Feb 2025 12:11

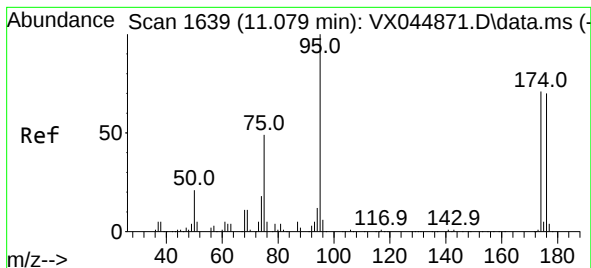
Tgt Ion: 43 Resp: 437

Ion Ratio Lower Upper

43 100

58 21.7 30.8 46.2#

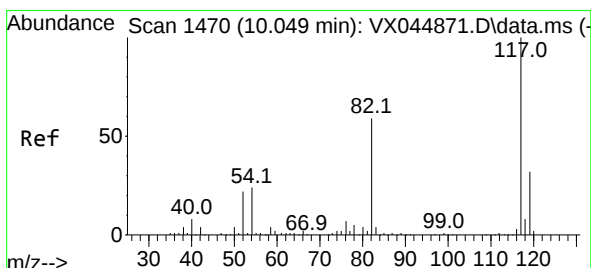
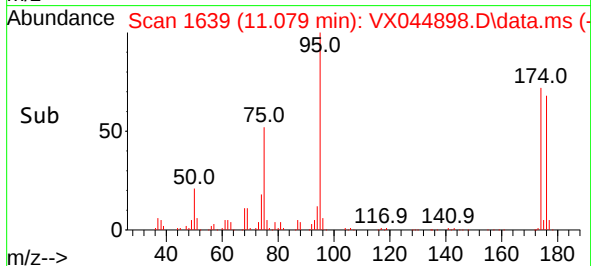
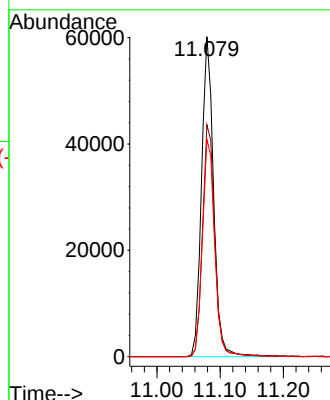
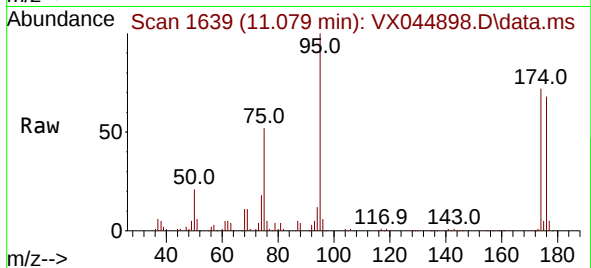




#62  
4-Bromofluorobenzene  
Concen: 50.313 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

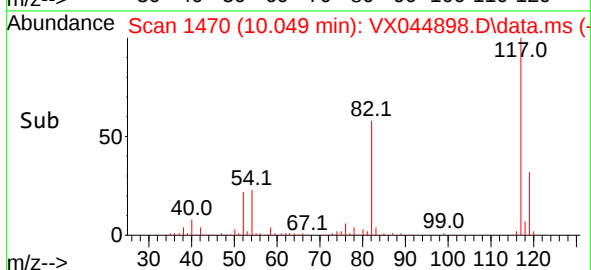
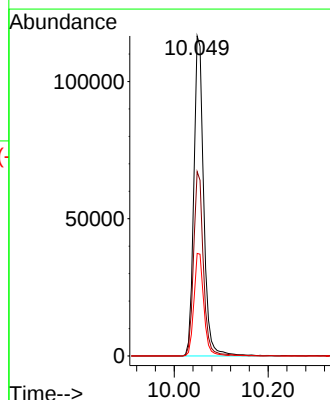
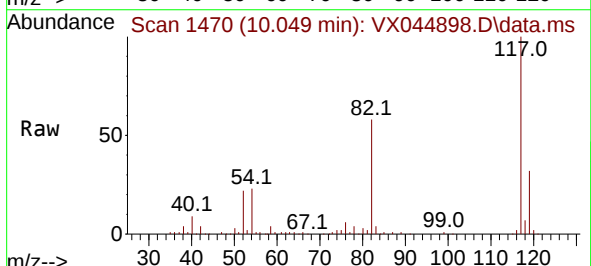
Instrument :  
MSVOA\_X  
ClientSampleId :

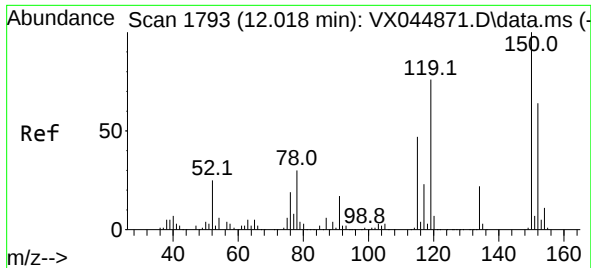
Tgt Ion: 95 Resp: 79898  
Ion Ratio Lower Upper  
95 100  
174 73.6 0.0 142.6  
176 69.3 0.0 141.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

Tgt Ion: 117 Resp: 170333  
Ion Ratio Lower Upper  
117 100  
82 57.6 47.5 71.3  
119 32.1 25.4 38.0

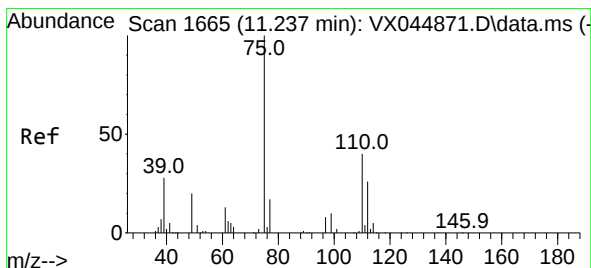
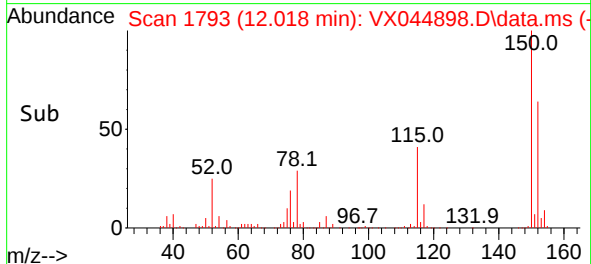
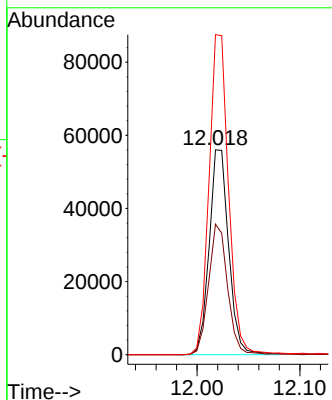
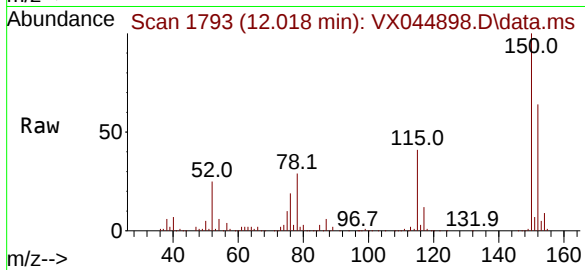




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.018 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX044898.D  
 Acq: 11 Feb 2025 12:11

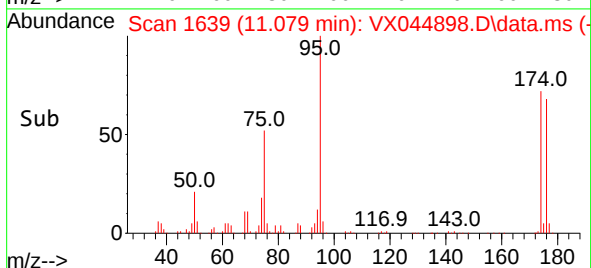
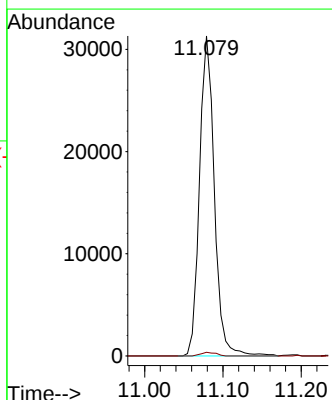
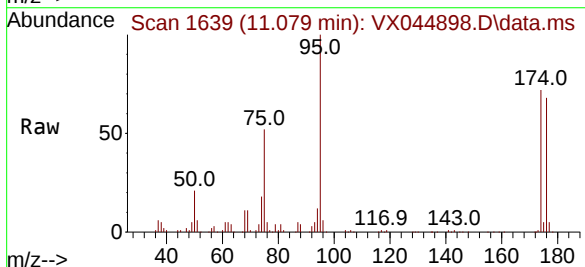
Instrument :  
 MSVOA\_X  
 ClientSampleId :

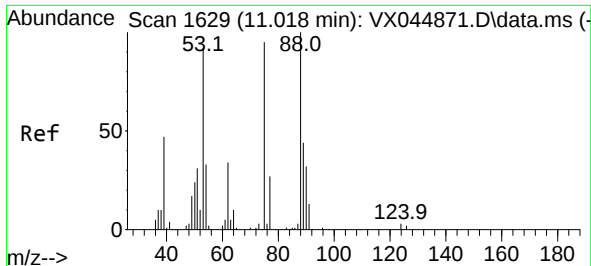
Tgt Ion:152 Resp: 73984  
 Ion Ratio Lower Upper  
 152 100  
 115 62.4 43.4 130.1  
 150 157.6 0.0 350.4



#76  
 1,2,3-Trichloropropane  
 Concen: 25.150 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.158 min  
 Lab File: VX044898.D  
 Acq: 11 Feb 2025 12:11

Tgt Ion: 75 Resp: 41255  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 21.9 65.7#

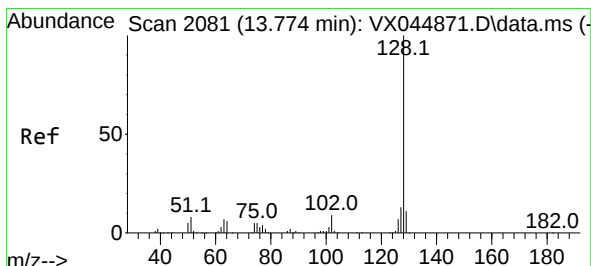
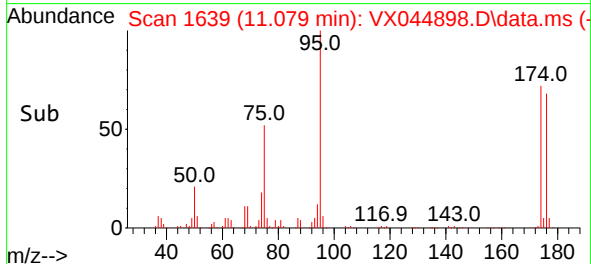
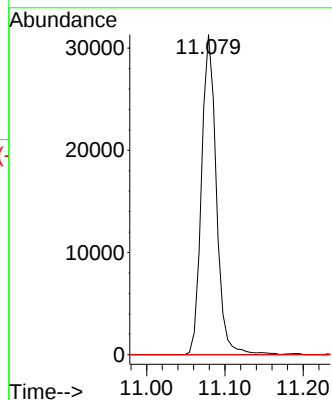
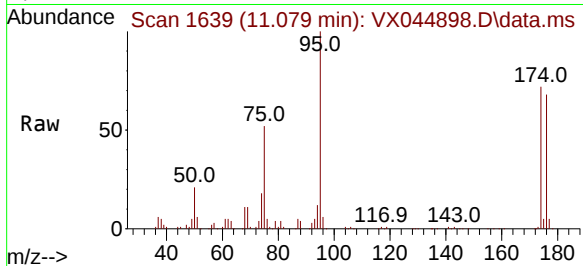




#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.696 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

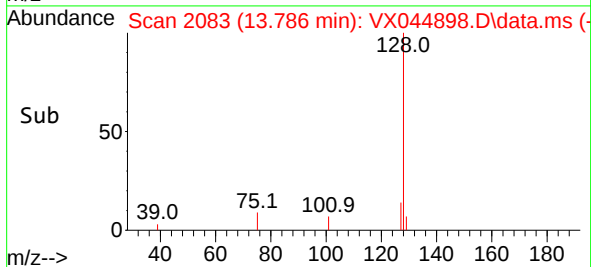
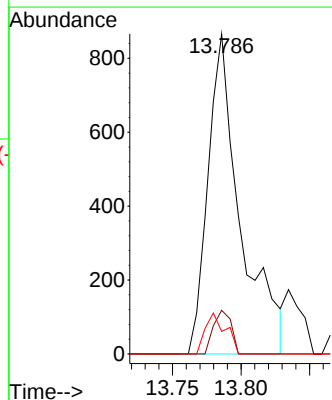
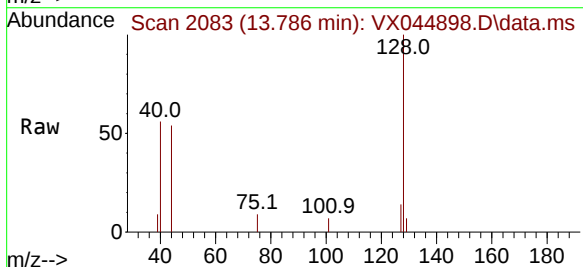
Instrument :  
MSVOA\_X  
ClientSampleId :

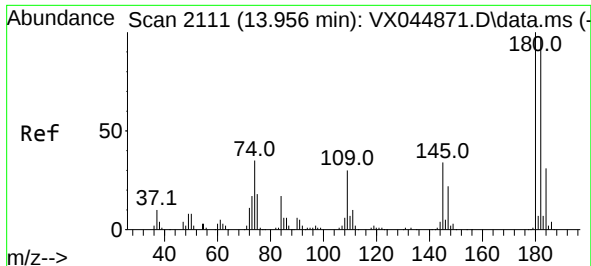
Tgt Ion: 75 Resp: 41255  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 36.6 54.8#



#95  
Naphthalene  
Concen: 0.267 ug/l  
RT: 13.786 min Scan# 2083  
Delta R.T. 0.012 min  
Lab File: VX044898.D  
Acq: 11 Feb 2025 12:11

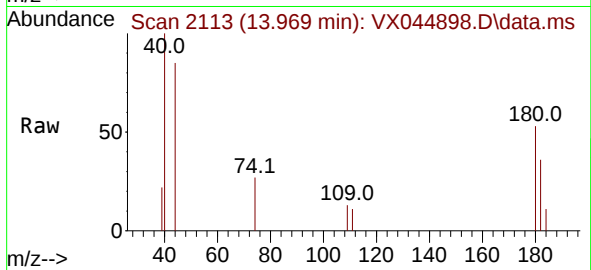
Tgt Ion:128 Resp: 1424  
Ion Ratio Lower Upper  
128 100  
127 7.4 10.1 15.1#  
129 8.1 8.9 13.3#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.214 ug/l  
 RT: 13.969 min Scan# 21  
 Delta R.T. 0.012 min  
 Lab File: VX044898.D  
 Acq: 11 Feb 2025 12:11

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion:180 Resp: 318  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 47.9 143.6  
 145 7.5 17.1 51.3#

