

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042825\  
 Data File : VX045963.D  
 Acq On : 28 Apr 2025 17:46  
 Operator : JC/MD  
 Sample : Q1895-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 COMP-2

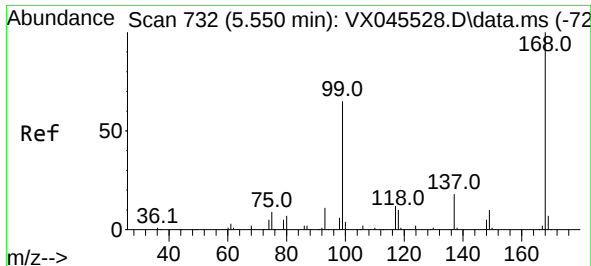
Quant Time: Apr 29 01:35:58 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040225W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 02 03:11:43 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 65240    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 127164   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117   | 122329   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 51893    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 65662    | 55.036   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 110.080% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 46626    | 51.679   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 103.360% |          |
| 50) Toluene-d8                | 8.647  | 98    | 162995   | 51.759   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 103.520% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 61562    | 53.669   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 107.340% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 2.965  | 59    | 4252     | 26.519   | ug/l       | 97       |
| 13) Acrolein                  | 2.227  | 56    | 55       | 0.249    | ug/l #     | 75       |
| 16) Acetone                   | 2.380  | 43    | 28657    | 58.495   | ug/l       | 98       |
| 18) Methyl Acetate            | 2.709  | 43    | 1976     | 1.752    | ug/l #     | 91       |
| 20) Methylene Chloride        | 2.788  | 84    | 3837     | 4.184    | ug/l       | 94       |
| 25) 2-Butanone                | 4.562  | 43    | 24147    | 33.672   | ug/l       | 98       |
| 29) Tetrahydrofuran           | 5.025  | 42    | 137      | 0.295    | ug/l #     | 59       |
| 31) Cyclohexane               | 5.544  | 56    | 1948     | 1.331    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 6519     | 5.351    | ug/l #     | 50       |
| 37) Ethyl Acetate             | 4.562  | 43    | 24147    | 15.729   | ug/l #     | 71       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 7533     | 5.722    | ug/l #     | 17       |
| 41) Methacrylonitrile         | 5.038  | 41    | 194      | 0.240    | ug/l #     | 24       |
| 43) Isopropyl Acetate         | 6.348  | 43    | 13722    | 5.897    | ug/l       | 99       |
| 48) Methyl methacrylate       | 7.592  | 41    | 2473     | 2.059    | ug/l #     | 40       |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 39240    | 25.440   | ug/l #     | 52       |
| 53) t-1,3-Dichloropropene     | 8.964  | 75    | 193      | 2.424    | ug/l #     | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 14204    | 10.621   | ug/l #     | 67       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 1413     | 0.905    | ug/l #     | 42       |
| 59) 2-Hexanone                | 9.433  | 43    | 10081    | 8.826    | ug/l       | 97       |
| 74) N-amyl acetate            | 10.774 | 43    | 4679     | 2.353    | ug/l #     | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 35672    | 28.182   | ug/l #     | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 35672    | 95.645   | ug/l #     | 1        |
| -----                         |        |       |          |          |            |          |

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

Quant Time: Apr 29 01:35:58 2025  
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QLast Update : Wed Apr 02 03:11:43 2025  
Response via : Initial Calibration

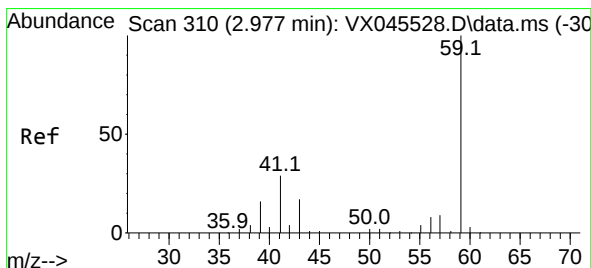
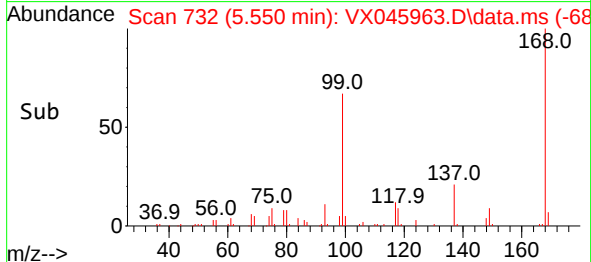
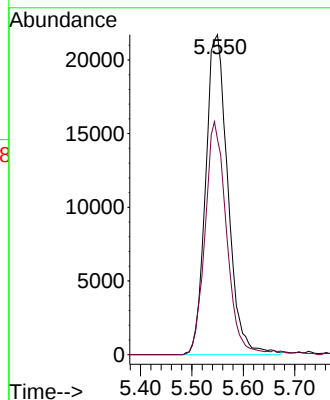
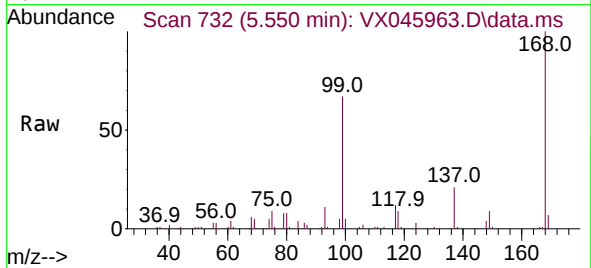




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

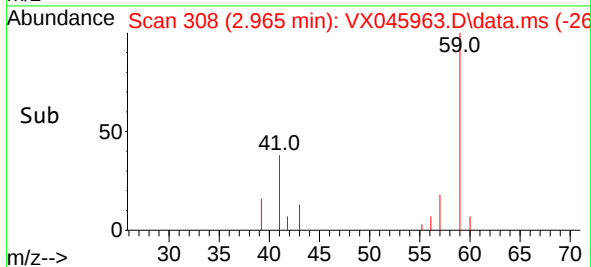
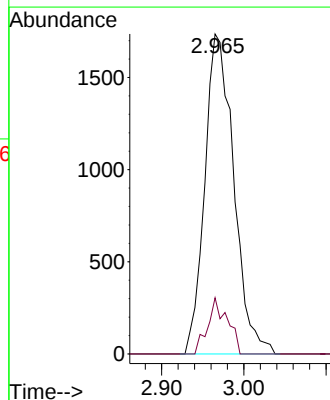
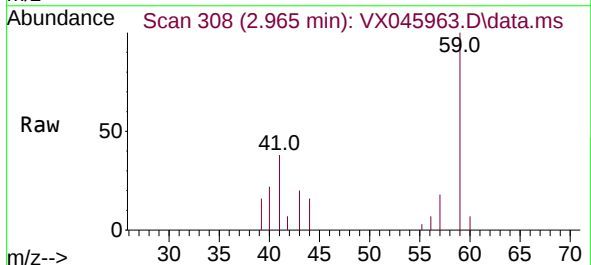
Instrument :  
MSVOA\_X  
ClientSampleId :  
COMP-2

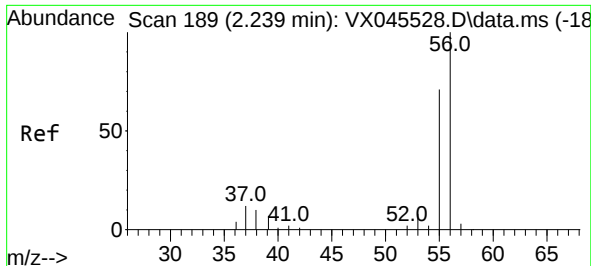
Tgt Ion:168 Resp: 65240  
Ion Ratio Lower Upper  
168 100  
99 67.3 52.3 78.5



#11  
Tert butyl alcohol  
Concen: 26.519 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. -0.012 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Tgt Ion: 59 Resp: 4252  
Ion Ratio Lower Upper  
59 100  
57 11.9 8.6 12.8





#13

Acrolein

Concen: 0.249 ug/l

RT: 2.227 min Scan# 11

Delta R.T. -0.012 min

Lab File: VX045963.D

Acq: 28 Apr 2025 17:46

Instrument :

MSVOA\_X

ClientSampleId :

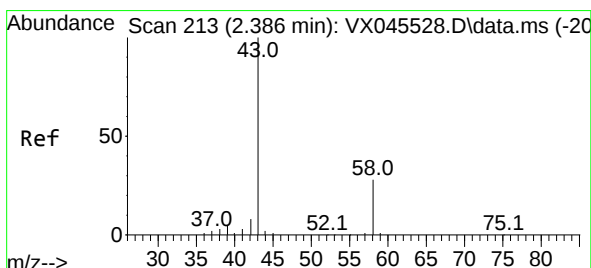
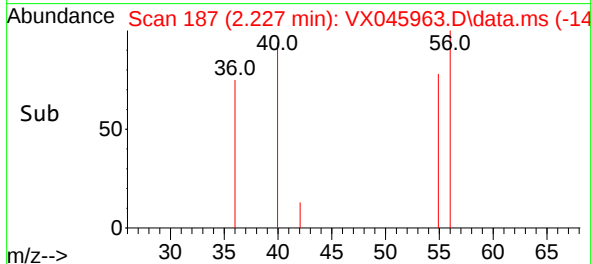
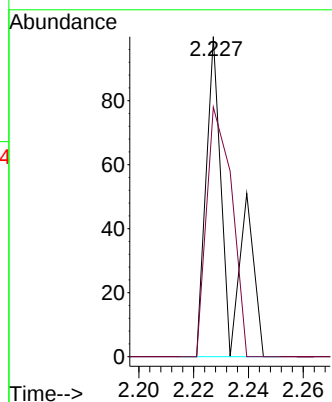
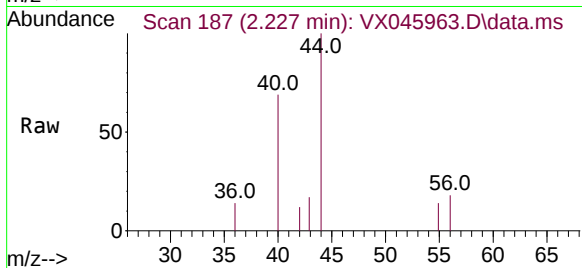
COMP-2

Tgt Ion: 56 Resp: 55

Ion Ratio Lower Upper

56 100

55 90.9 56.2 84.2#



#16

Acetone

Concen: 58.495 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX045963.D

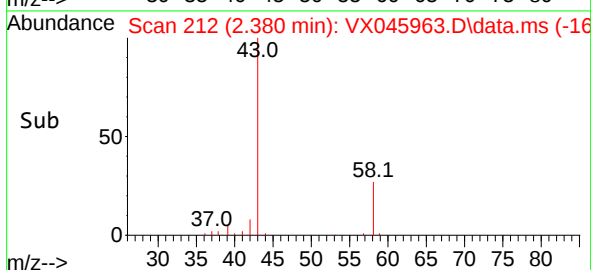
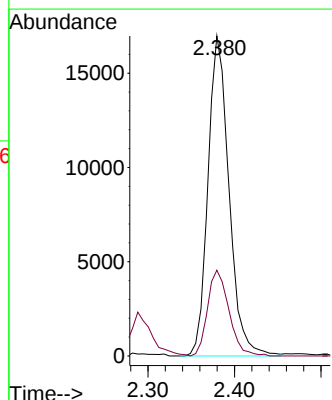
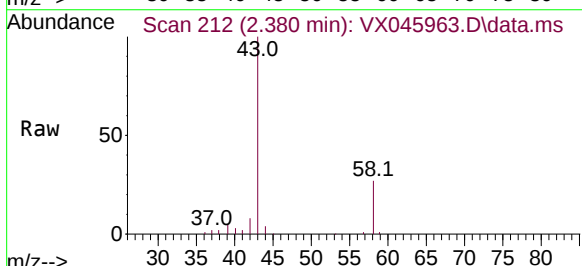
Acq: 28 Apr 2025 17:46

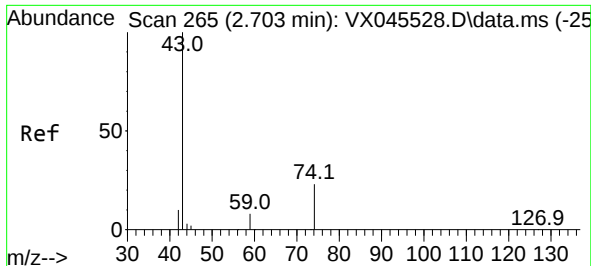
Tgt Ion: 43 Resp: 28657

Ion Ratio Lower Upper

43 100

58 26.8 22.3 33.5

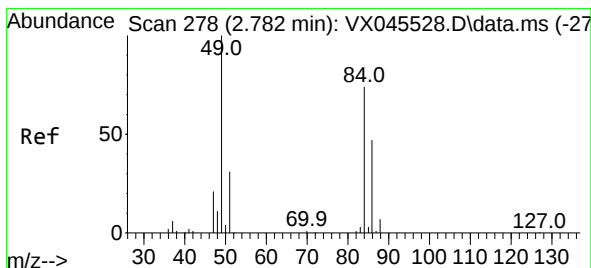
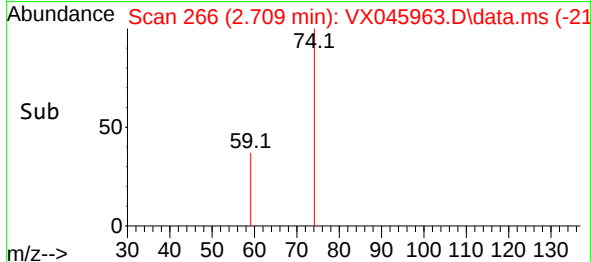
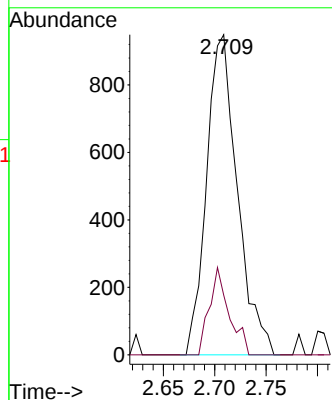
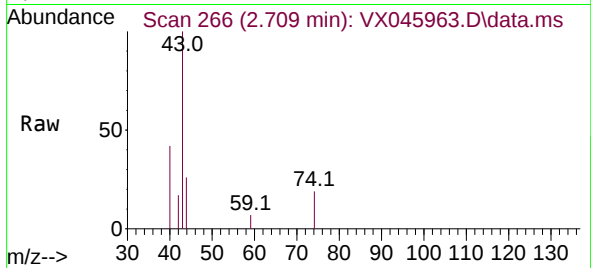




#18  
Methyl Acetate  
Concen: 1.752 ug/l  
RT: 2.709 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

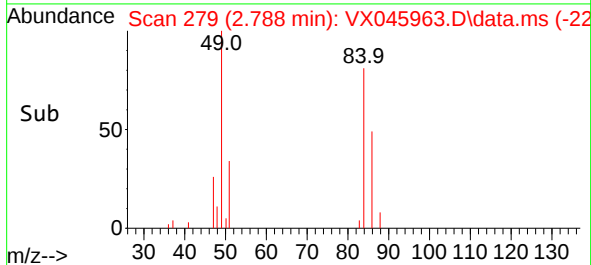
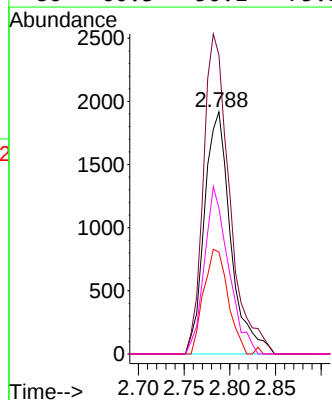
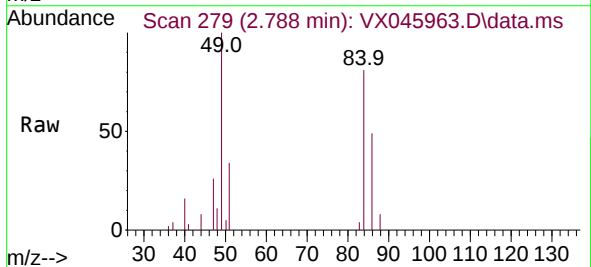
Instrument :  
MSVOA\_X  
ClientSampleId :  
COMP-2

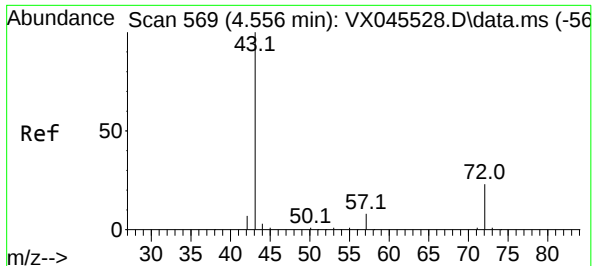
Tgt Ion: 43 Resp: 1976  
Ion Ratio Lower Upper  
43 100  
74 17.5 17.5 26.3#



#20  
Methylene Chloride  
Concen: 4.184 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.006 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Tgt Ion: 84 Resp: 3837  
Ion Ratio Lower Upper  
84 100  
49 123.5 107.5 161.3  
51 42.1 33.0 49.6  
86 60.3 50.1 75.1





#25

2-Butanone

Concen: 33.672 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX045963.D

Acq: 28 Apr 2025 17:46

Instrument :

MSVOA\_X

ClientSampleId :

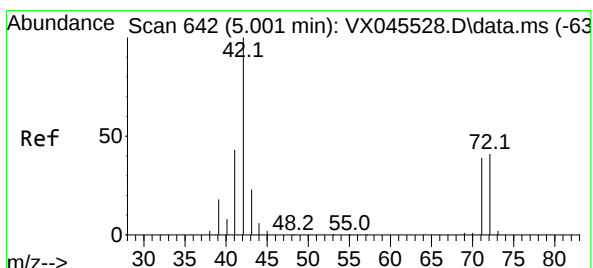
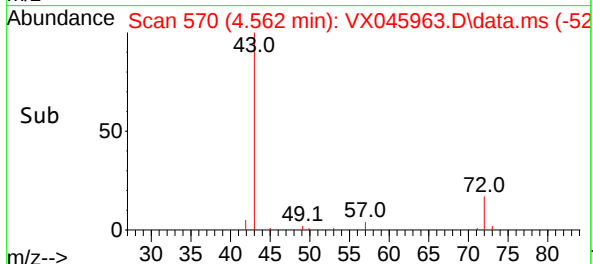
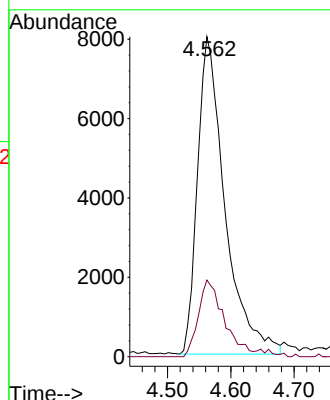
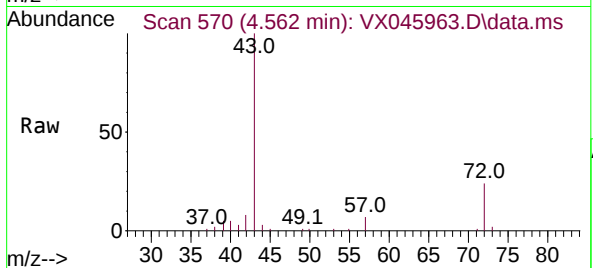
COMP-2

Tgt Ion: 43 Resp: 24147

Ion Ratio Lower Upper

43 100

72 24.2 18.6 28.0



#29

Tetrahydrofuran

Concen: 0.295 ug/l

RT: 5.025 min Scan# 646

Delta R.T. 0.024 min

Lab File: VX045963.D

Acq: 28 Apr 2025 17:46

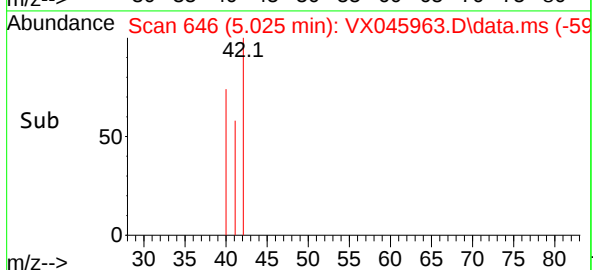
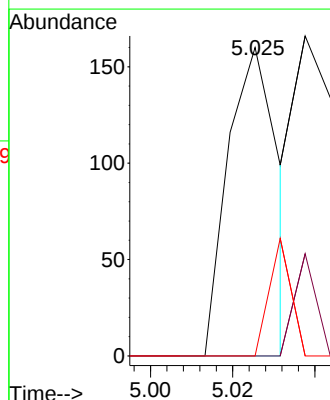
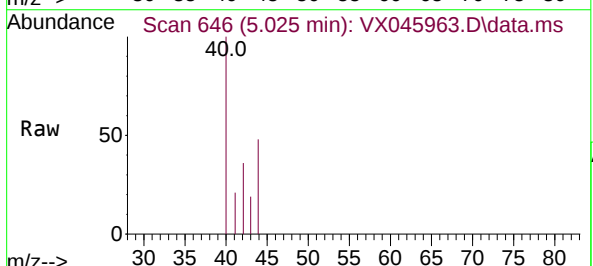
Tgt Ion: 42 Resp: 137

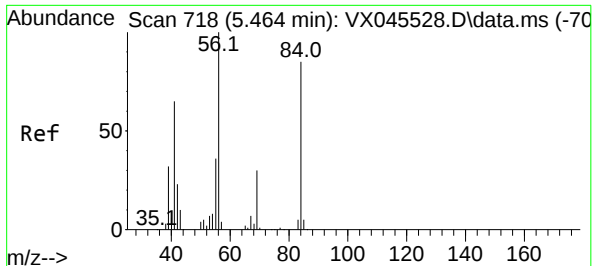
Ion Ratio Lower Upper

42 100

72 13.9 33.4 50.0#

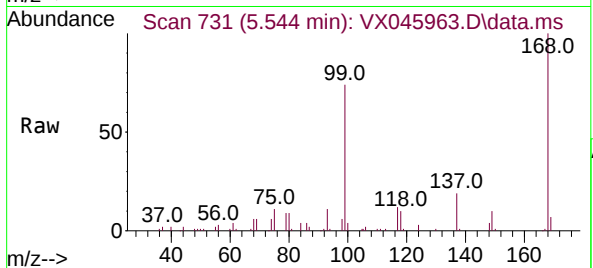
71 16.1 31.4 47.0#



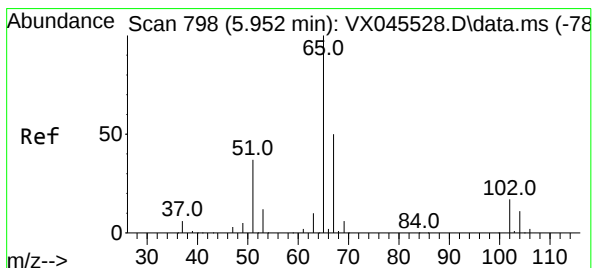
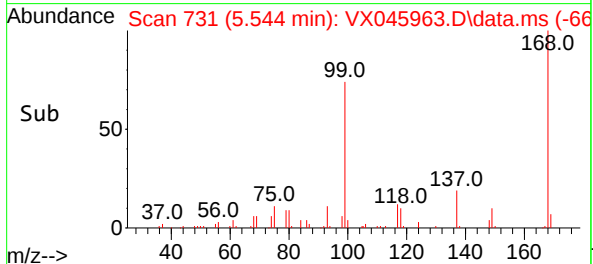
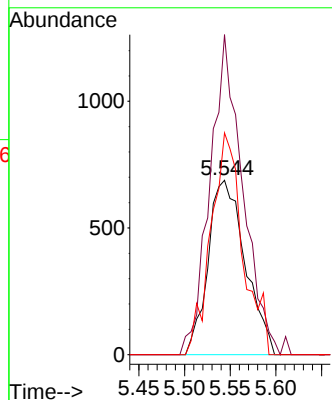


#31  
Cyclohexane  
Concen: 1.331 ug/l  
RT: 5.544 min Scan# 718  
Delta R.T. 0.079 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
COMP-2

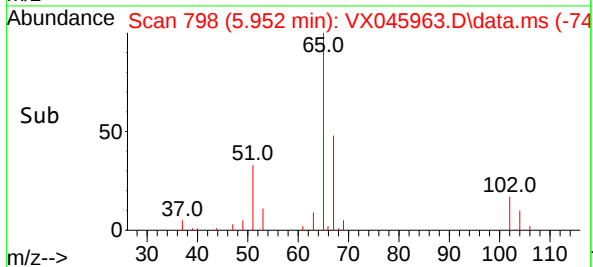
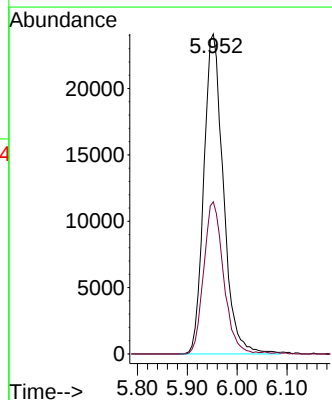
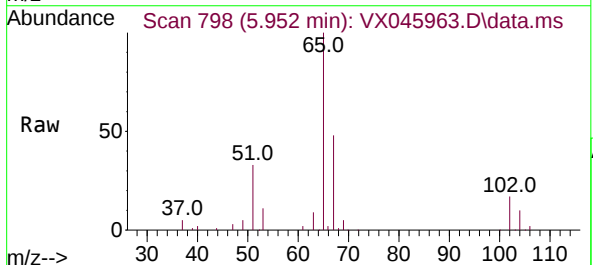


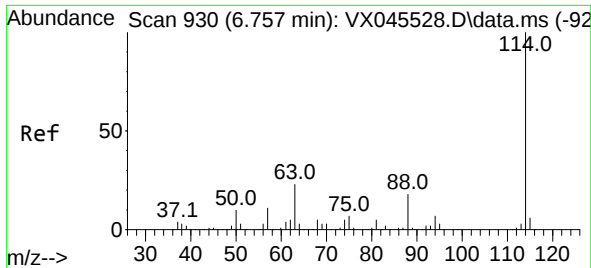
Tgt Ion: 56 Resp: 1948  
Ion Ratio Lower Upper  
56 100  
69 183.6 23.6 35.4#  
84 127.2 67.7 101.5#



#33  
1,2-Dichloroethane-d4  
Concen: 55.036 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Tgt Ion: 65 Resp: 65662  
Ion Ratio Lower Upper  
65 100  
67 48.2 0.0 99.0

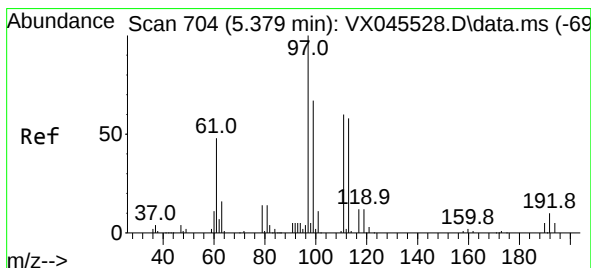
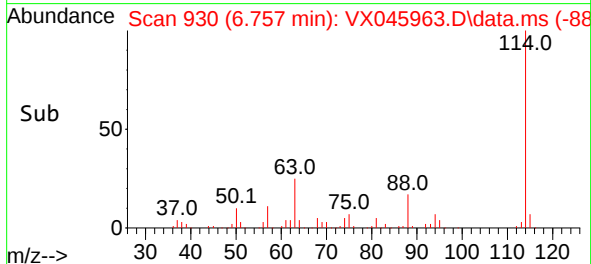
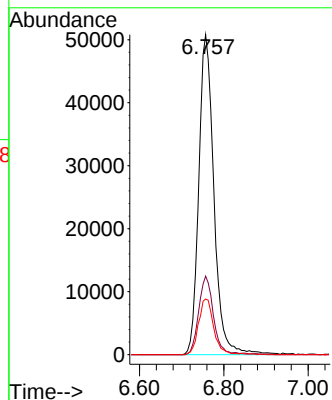
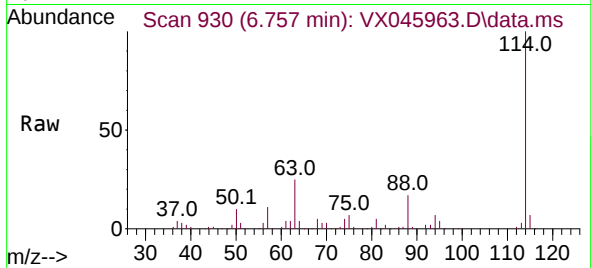




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

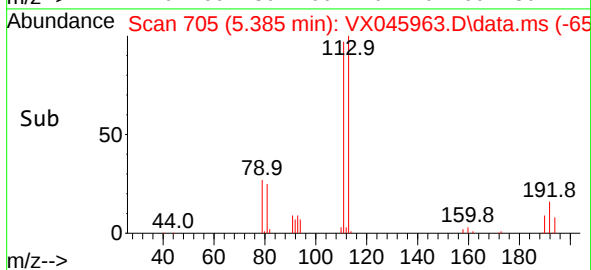
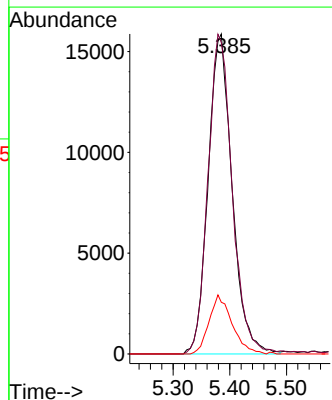
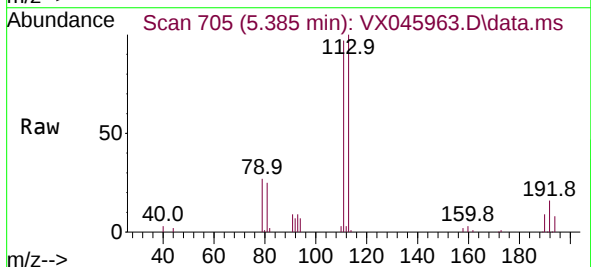
Instrument :  
MSVOA\_X  
ClientSampleId :  
COMP-2

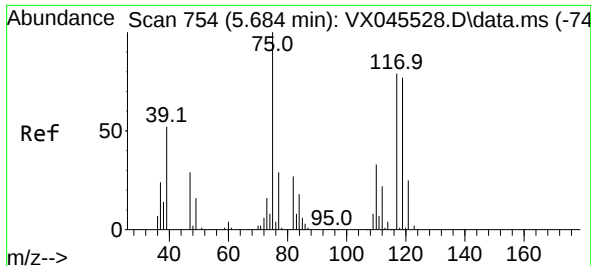
Tgt Ion:114 Resp: 127164  
Ion Ratio Lower Upper  
114 100  
63 24.5 0.0 46.8  
88 17.4 0.0 35.4



#35  
Dibromofluoromethane  
Concen: 51.679 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Tgt Ion:113 Resp: 46626  
Ion Ratio Lower Upper  
113 100  
111 101.1 81.8 122.6  
192 17.6 13.8 20.6





#36

1,1-Dichloropropene

Concen: 5.351 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX045963.D

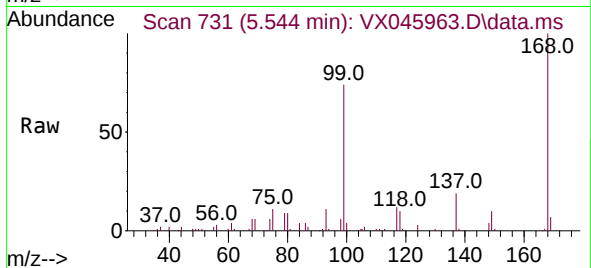
Acq: 28 Apr 2025 17:46

Instrument :

MSVOA\_X

ClientSampleId :

COMP-2



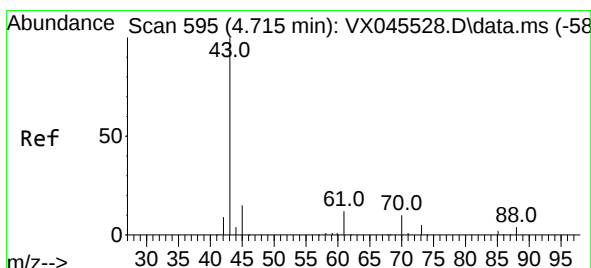
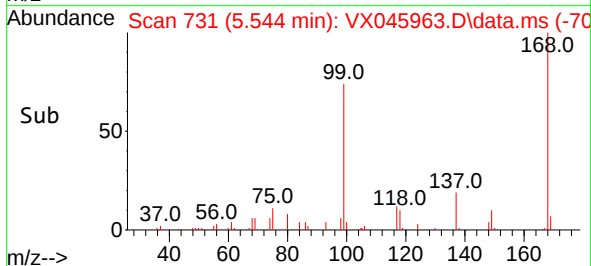
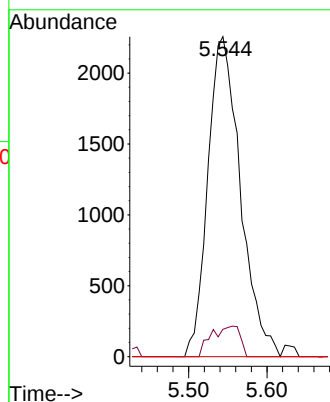
Tgt Ion: 75 Resp: 6519

Ion Ratio Lower Upper

75 100

110 8.4 16.9 50.6#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 15.729 ug/l

RT: 4.562 min Scan# 570

Delta R.T. -0.152 min

Lab File: VX045963.D

Acq: 28 Apr 2025 17:46

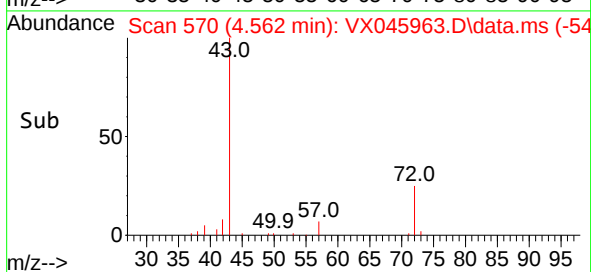
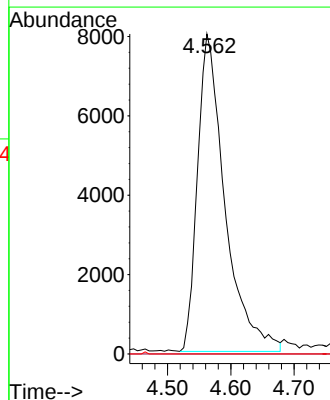
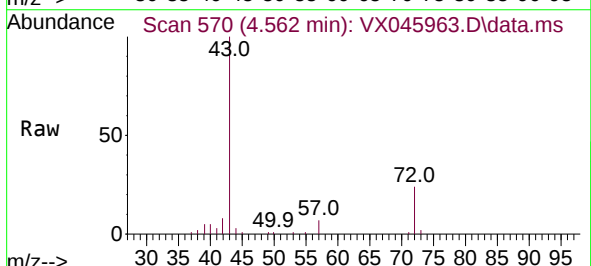
Tgt Ion: 43 Resp: 24147

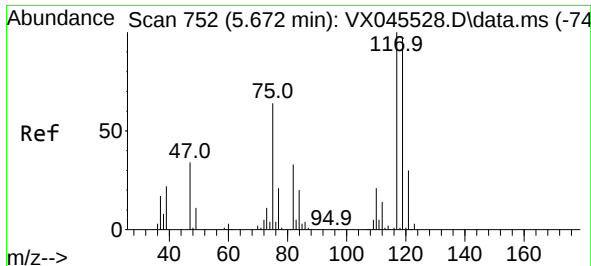
Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

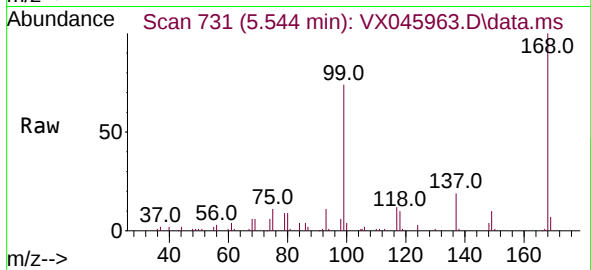
70 0.0 7.5 11.3#



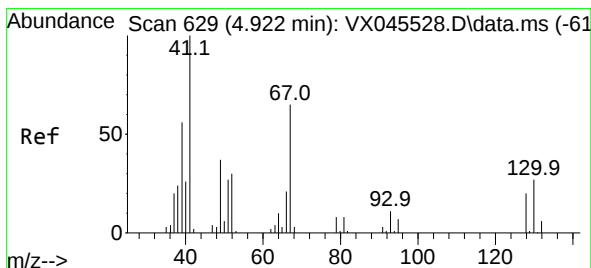
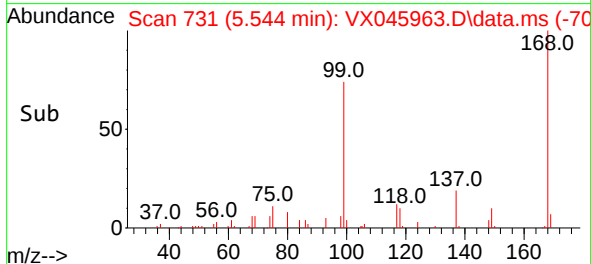
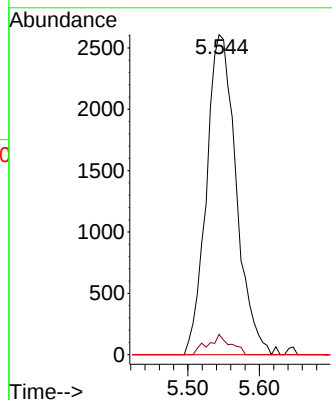


#38  
Carbon Tetrachloride  
Concen: 5.722 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
COMP-2

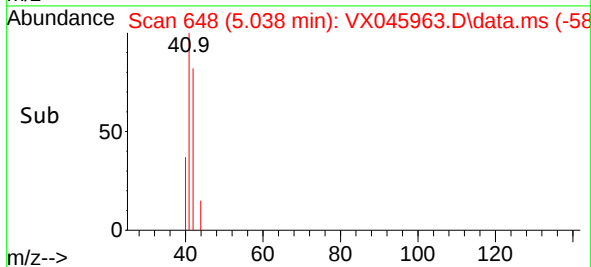
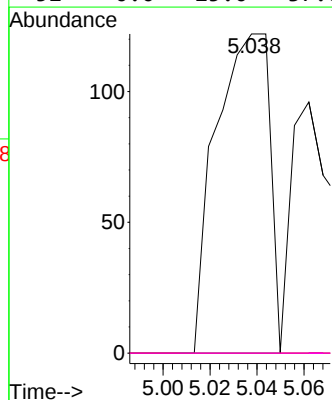
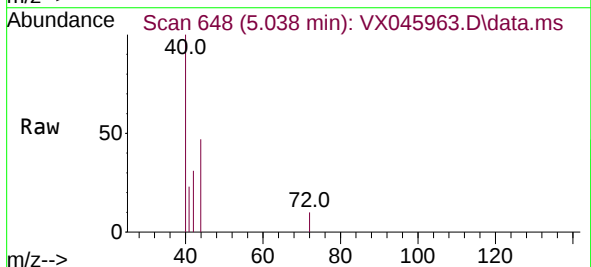


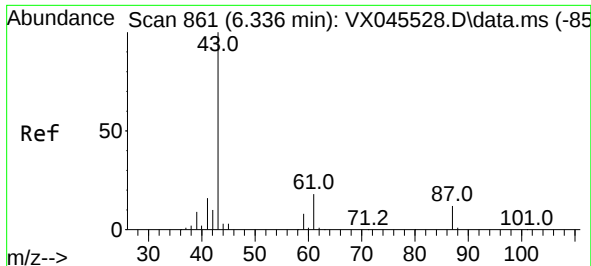
Tgt Ion:117 Resp: 7533  
Ion Ratio Lower Upper  
117 100  
119 6.4 76.9 115.3#  
121 0.0 24.2 36.2#



#41  
Methacrylonitrile  
Concen: 0.240 ug/l  
RT: 5.038 min Scan# 648  
Delta R.T. 0.116 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Tgt Ion: 41 Resp: 194  
Ion Ratio Lower Upper  
41 100  
39 0.0 47.0 70.6#  
67 0.0 53.2 79.8#  
52 0.0 25.0 37.6#

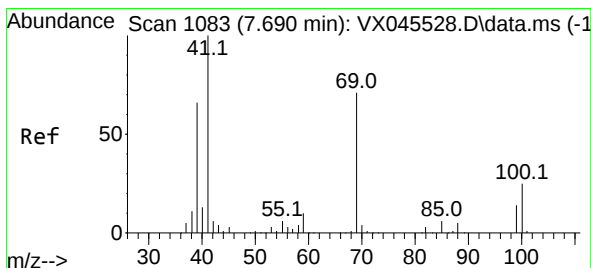
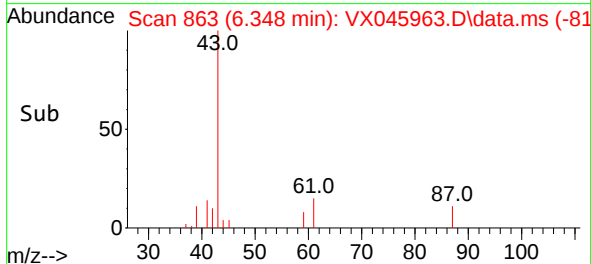
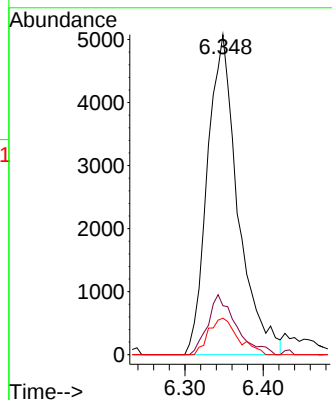
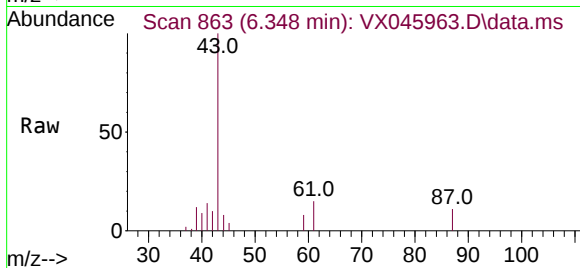




#43  
Isopropyl Acetate  
Concen: 5.897 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. 0.012 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

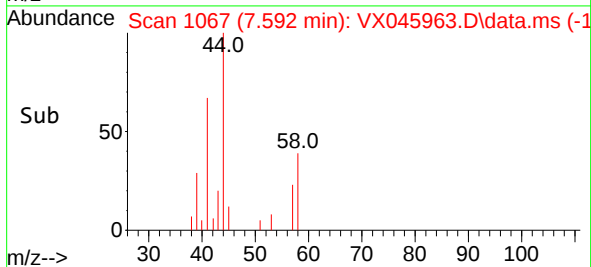
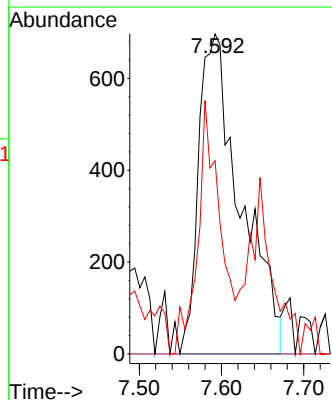
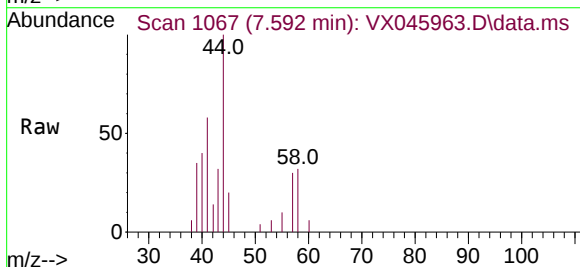
Instrument :  
MSVOA\_X  
ClientSampleId :  
COMP-2

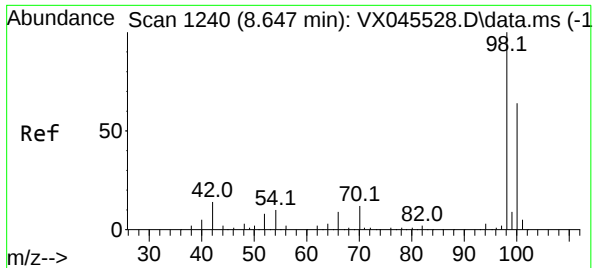
Tgt Ion: 43 Resp: 13722  
Ion Ratio Lower Upper  
43 100  
61 17.4 14.1 21.1  
87 11.0 9.2 13.8



#48  
Methyl methacrylate  
Concen: 2.059 ug/l  
RT: 7.592 min Scan# 1067  
Delta R.T. -0.098 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Tgt Ion: 41 Resp: 2473  
Ion Ratio Lower Upper  
41 100  
69 0.0 58.2 87.2#  
39 42.1 53.6 80.4#

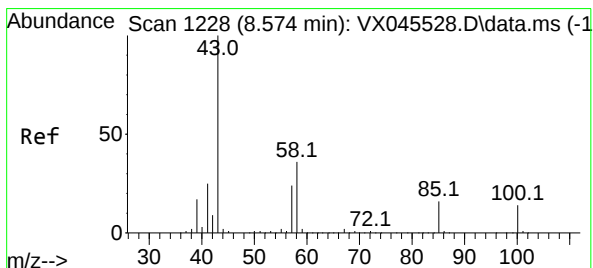
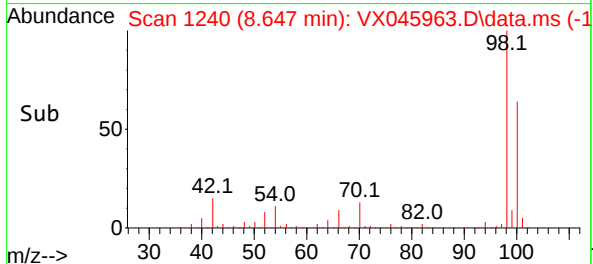
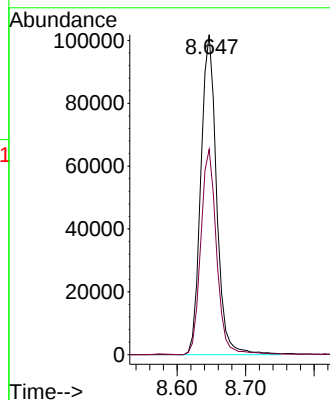
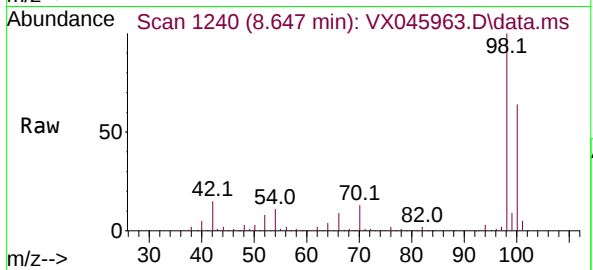




#50  
Toluene-d8  
Concen: 51.759 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

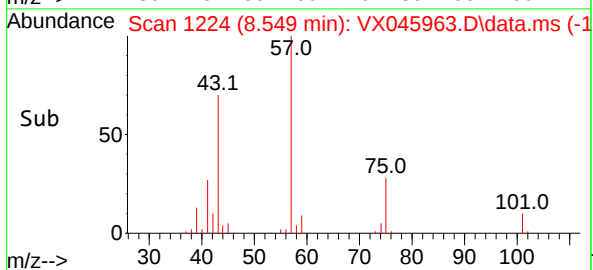
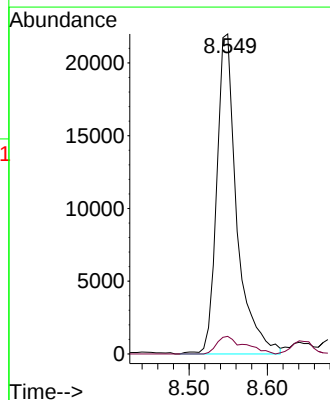
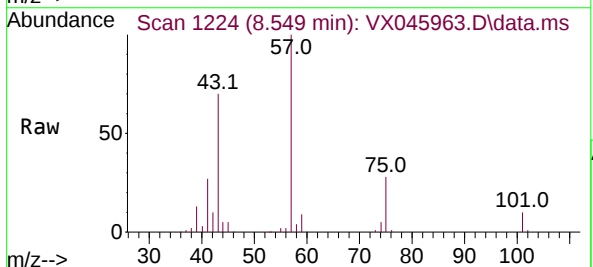
Instrument :  
MSVOA\_X  
ClientSampleId :  
COMP-2

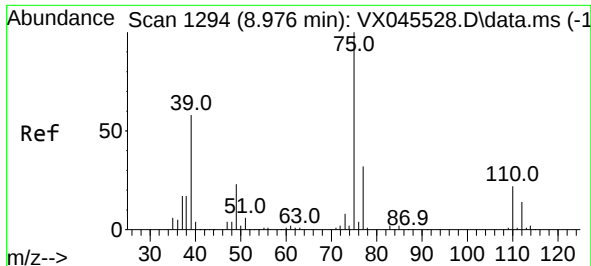
Tgt Ion: 98 Resp: 162995  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.2 78.4



#51  
4-Methyl-2-Pentanone  
Concen: 25.440 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Tgt Ion: 43 Resp: 39240  
Ion Ratio Lower Upper  
43 100  
58 7.6 28.5 42.7#

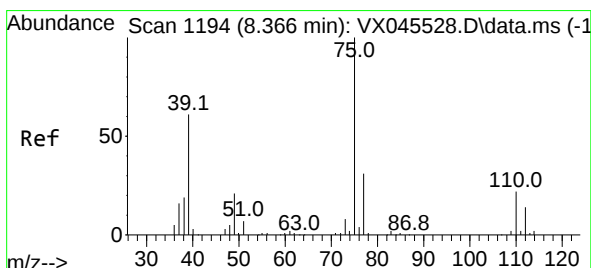
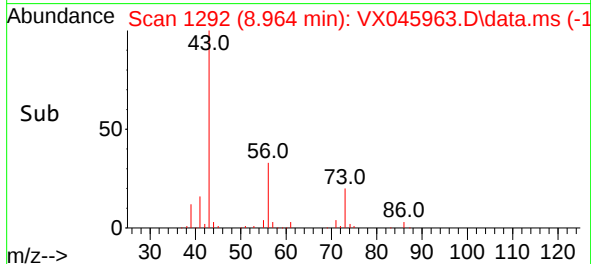
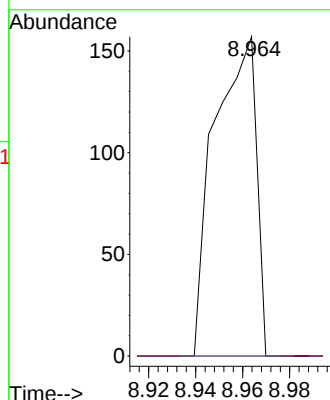
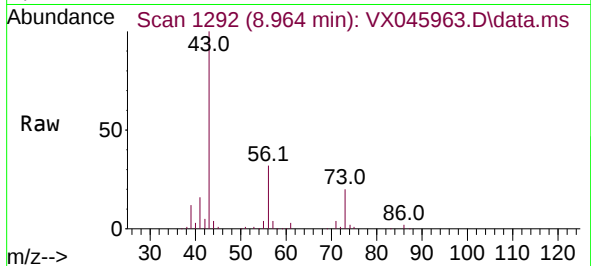




#53  
 t-1,3-Dichloropropene  
 Concen: 2.424 ug/l  
 RT: 8.964 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: VX045963.D  
 Acq: 28 Apr 2025 17:46

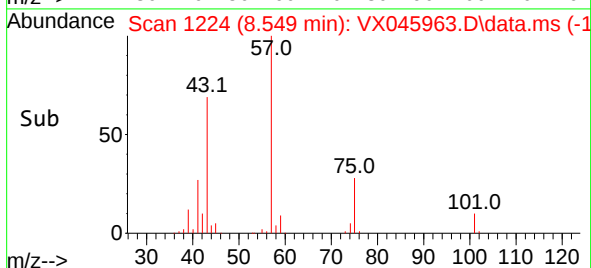
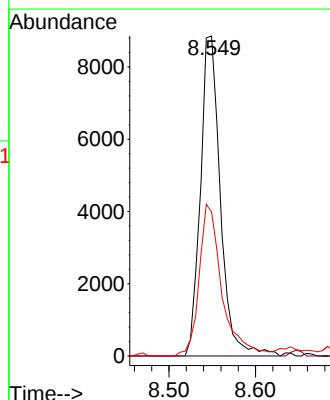
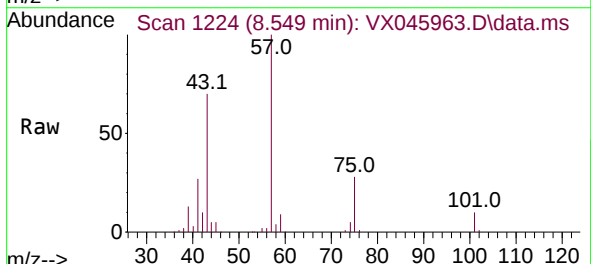
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 COMP-2

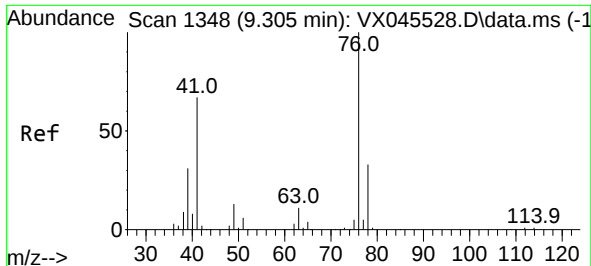
Tgt Ion: 75 Resp: 193  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.4 38.0#



#54  
 cis-1,3-Dichloropropene  
 Concen: 10.621 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX045963.D  
 Acq: 28 Apr 2025 17:46

Tgt Ion: 75 Resp: 14204  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.6 36.8#  
 39 43.9 48.4 72.6#





#57

1,3-Dichloropropane

Concen: 0.905 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX045963.D

Acq: 28 Apr 2025 17:46

Instrument :

MSVOA\_X

ClientSampleId :

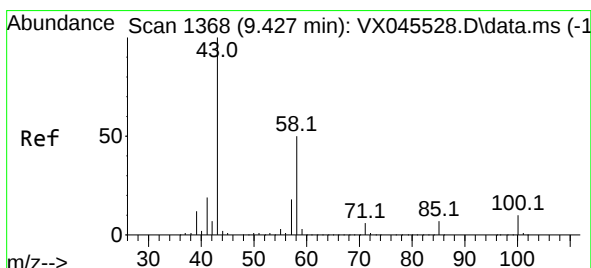
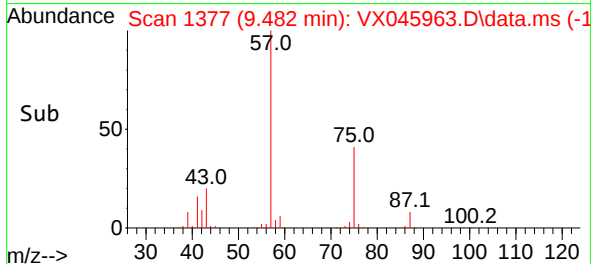
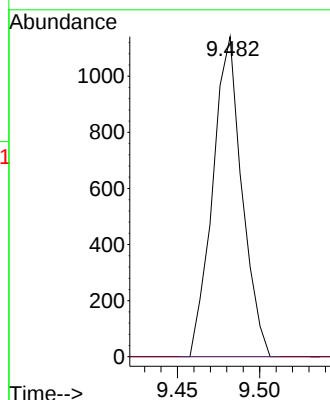
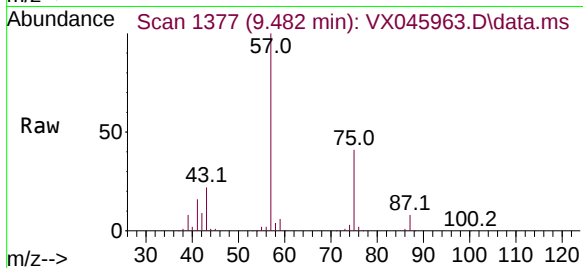
COMP-2

Tgt Ion: 76 Resp: 1413

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 8.826 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX045963.D

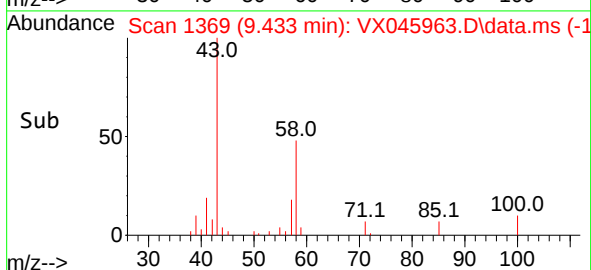
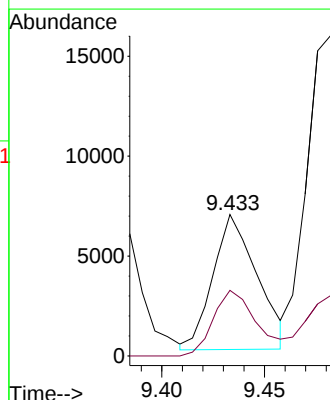
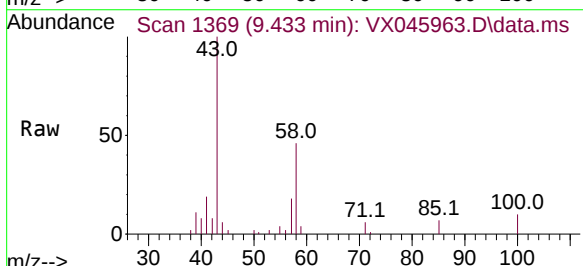
Acq: 28 Apr 2025 17:46

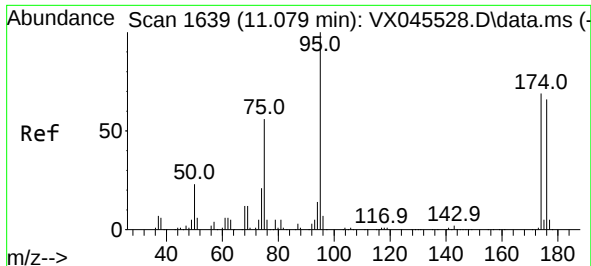
Tgt Ion: 43 Resp: 10081

Ion Ratio Lower Upper

43 100

58 47.8 24.9 74.6

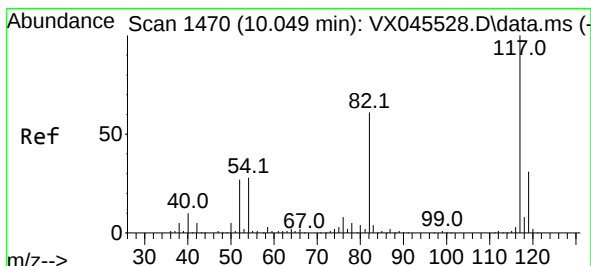
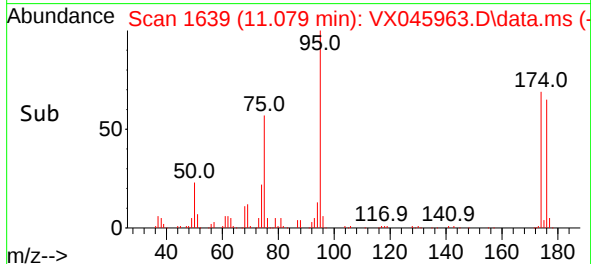
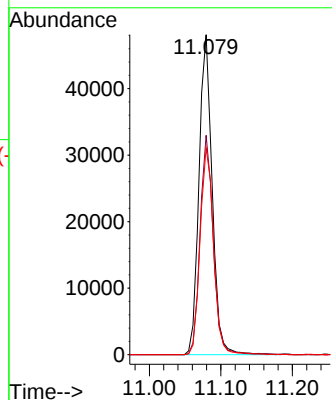
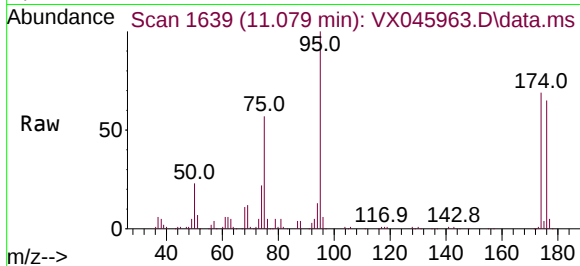




#62  
4-Bromofluorobenzene  
Concen: 53.669 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

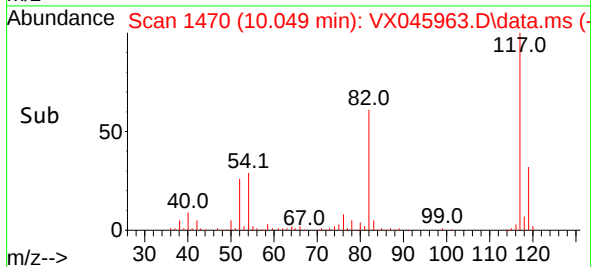
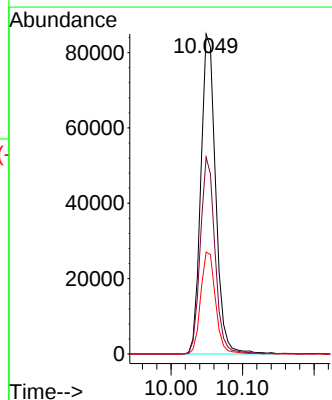
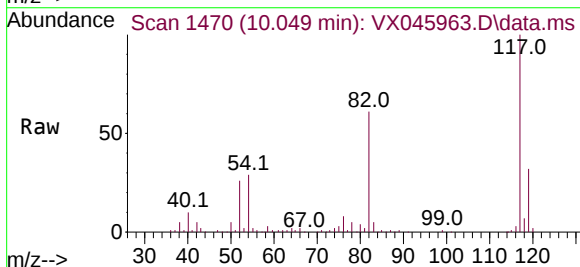
Instrument :  
MSVOA\_X  
ClientSampleId :  
COMP-2

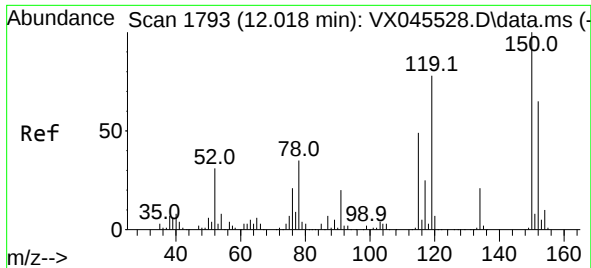
Tgt Ion: 95 Resp: 61562  
Ion Ratio Lower Upper  
95 100  
174 68.2 0.0 135.8  
176 65.8 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Tgt Ion: 117 Resp: 122329  
Ion Ratio Lower Upper  
117 100  
82 61.5 49.2 73.8  
119 31.8 25.1 37.7

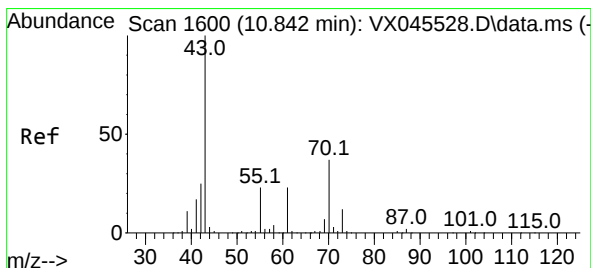
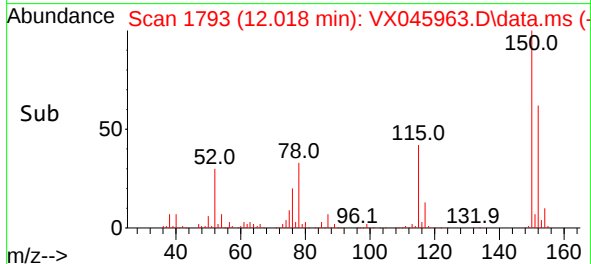
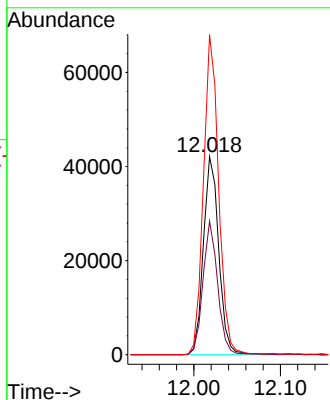
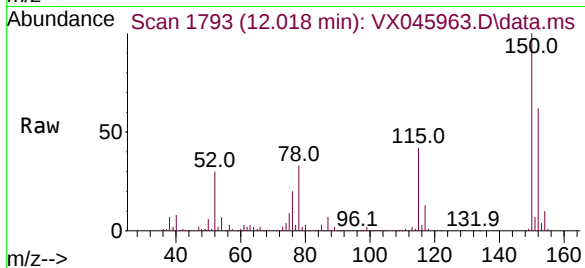




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.018 min Scan# 1  
 Delta R.T. -0.000 min  
 Lab File: VX045963.D  
 Acq: 28 Apr 2025 17:46

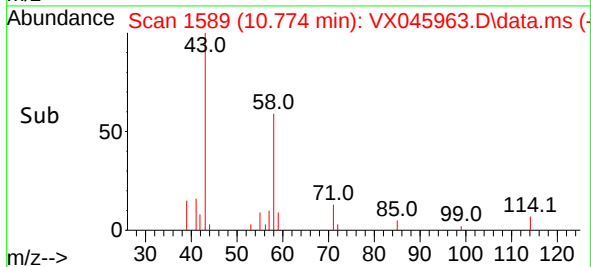
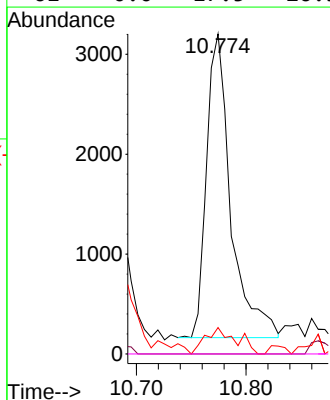
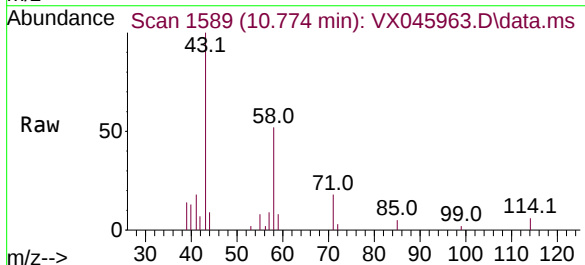
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 COMP-2

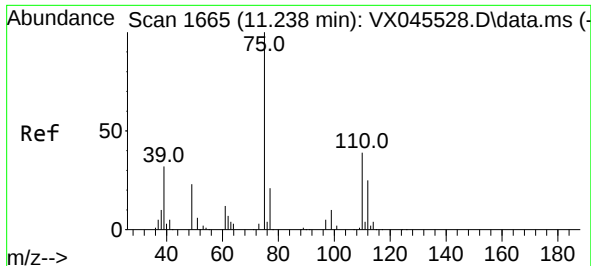
Tgt Ion:152 Resp: 51893  
 Ion Ratio Lower Upper  
 152 100  
 115 64.6 46.9 140.7  
 150 159.5 0.0 349.4



#74  
 N-ethyl acetate  
 Concen: 2.353 ug/l  
 RT: 10.774 min Scan# 1589  
 Delta R.T. -0.067 min  
 Lab File: VX045963.D  
 Acq: 28 Apr 2025 17:46

Tgt Ion: 43 Resp: 4679  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 30.1 45.1#  
 55 11.0 18.3 27.5#  
 61 0.0 17.5 26.3#

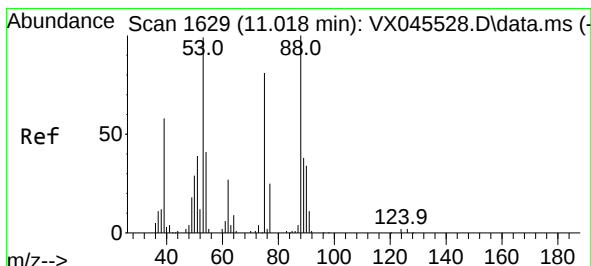
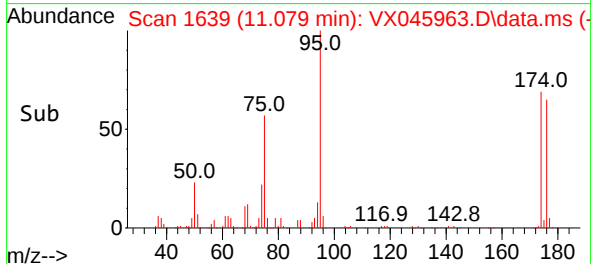
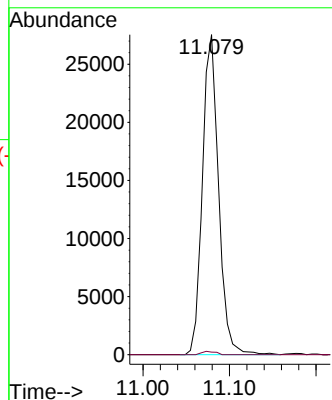
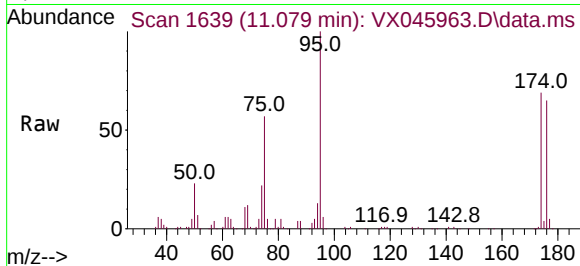




#76  
1,2,3-Trichloropropane  
Concen: 28.182 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
COMP-2

Tgt Ion: 75 Resp: 35672  
Ion Ratio Lower Upper  
75 100  
77 0.9 20.0 59.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 95.645 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX045963.D  
Acq: 28 Apr 2025 17:46

Tgt Ion: 75 Resp: 35672  
Ion Ratio Lower Upper  
75 100  
53 0.0 101.8 152.6#  
89 0.0 37.2 55.8#

