

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081224\  
 Data File : VN083238.D  
 Acq On : 12 Aug 2024 15:23  
 Operator : JC\MD  
 Sample : PB162664ZHE#05  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 13 04:20:26 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080724W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 08 06:30:41 2024  
 Response via : Initial Calibration

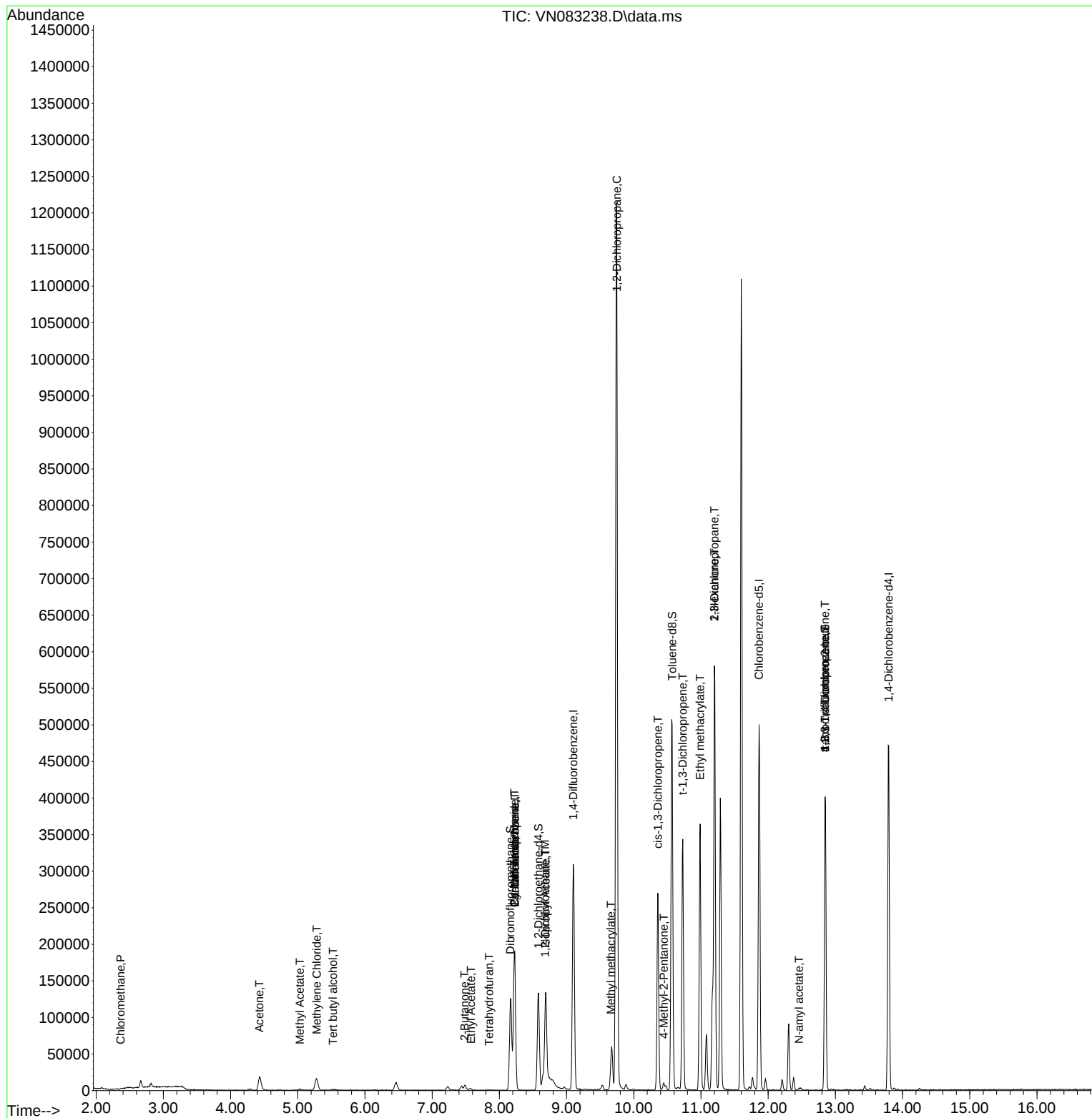
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 134776   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 262871   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 272548   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 123280   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.582  | 65    | 114906   | 59.897   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 119.800% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 90779    | 55.327   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 110.660% |          |
| 50) Toluene-d8                | 10.571 | 98    | 345456   | 56.442   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 112.880% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 146362   | 61.339   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery | = 122.680% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 3) Chloromethane              | 2.365  | 50    | 329      | 0.210    | ug/l #     | 43       |
| 11) Tert butyl alcohol        | 5.524  | 59    | 2071     | 5.195    | ug/l #     | 71       |
| 16) Acetone                   | 4.430  | 43    | 37486    | 49.938   | ug/l       | 98       |
| 18) Methyl Acetate            | 5.030  | 43    | 2751     | 1.230    | ug/l #     | 79       |
| 20) Methylene Chloride        | 5.283  | 84    | 12750    | 7.380    | ug/l #     | 73       |
| 25) 2-Butanone                | 7.482  | 43    | 12163    | 10.553   | ug/l       | 92       |
| 29) Tetrahydrofuran           | 7.847  | 42    | 656      | 0.880    | ug/l #     | 38       |
| 31) Cyclohexane               | 8.230  | 56    | 3571     | 1.256    | ug/l #     | 30       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 12512    | 5.041    | ug/l #     | 51       |
| 37) Ethyl Acetate             | 7.577  | 43    | 3776     | 1.359    | ug/l #     | 87       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 15300    | 5.473    | ug/l #     | 17       |
| 42) 1,2-Dichloroethane        | 8.682  | 62    | 805      | 0.299    | ug/l #     | 78       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 206183   | 42.301   | ug/l #     | 86       |
| 45) 1,2-Dichloropropane       | 9.747  | 63    | 1465     | 0.835    | ug/l #     | 44       |
| 48) Methyl methacrylate       | 9.659  | 41    | 4366     | 1.900    | ug/l #     | 54       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 6129     | 2.332    | ug/l       | 91       |
| 53) t-1,3-Dichloropropene     | 10.729 | 75    | 909      | 0.314    | ug/l #     | 88       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 48496    | 15.735   | ug/l #     | 55       |
| 56) Ethyl methacrylate        | 10.988 | 69    | 670      | 0.212    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 11.200 | 76    | 6141     | 2.058    | ug/l #     | 43       |
| 59) 2-Hexanone                | 11.200 | 43    | 81325    | 40.000   | ug/l #     | 59       |
| 74) N-amyl acetate            | 12.459 | 43    | 3455     | 0.685    | ug/l #     | 48       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 79697    | 29.455   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 79697    | 64.072   | ug/l #     | 6        |
| -----                         |        |       |          |          |            |          |

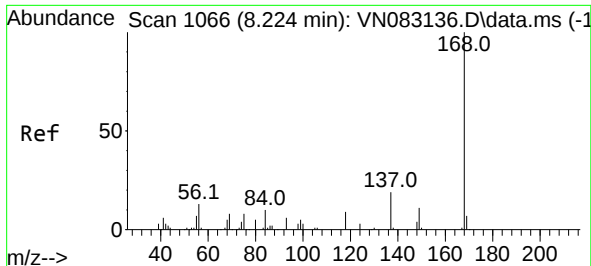
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081224\  
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Quant Title : SW846 8260  
QLast Update : Thu Aug 08 06:30:41 2024  
Response via : Initial Calibration

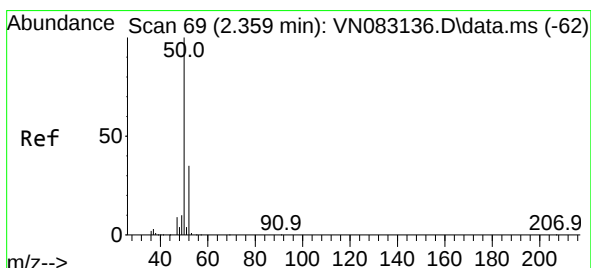
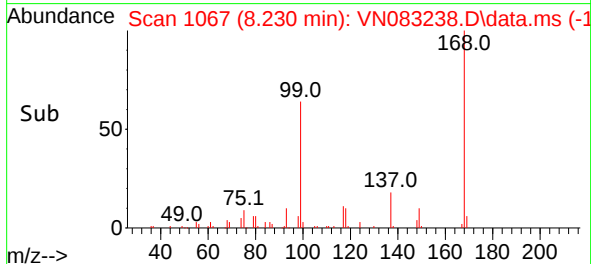
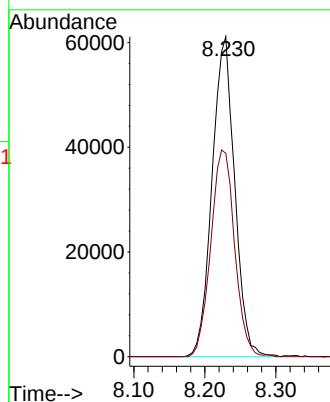
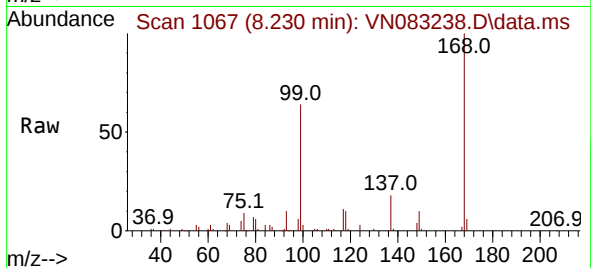




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

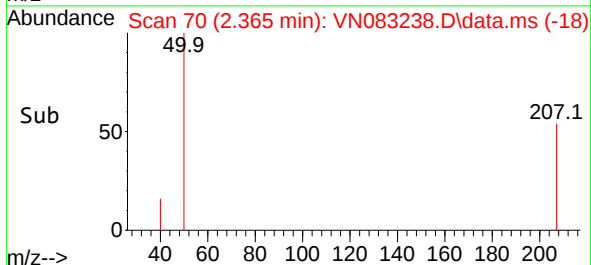
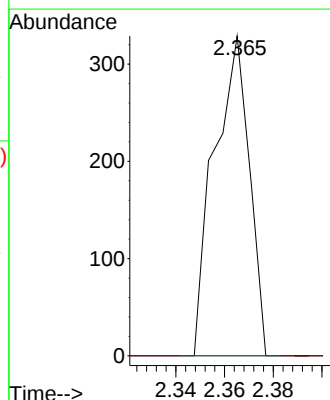
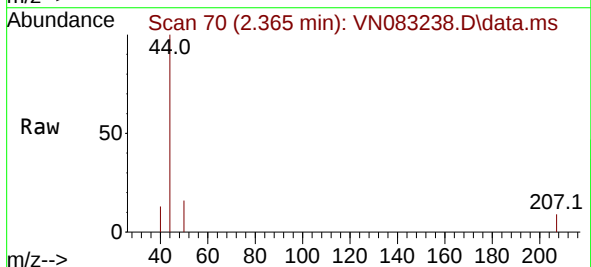
Instrument :  
MSVOA\_N  
ClientSampleId :

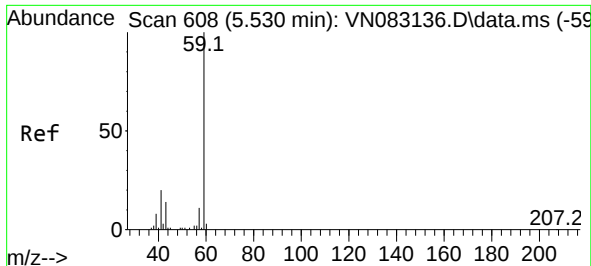
Tgt Ion:168 Resp: 134776  
Ion Ratio Lower Upper  
168 100  
99 63.6 48.2 72.4



#3  
Chloromethane  
Concen: 0.210 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

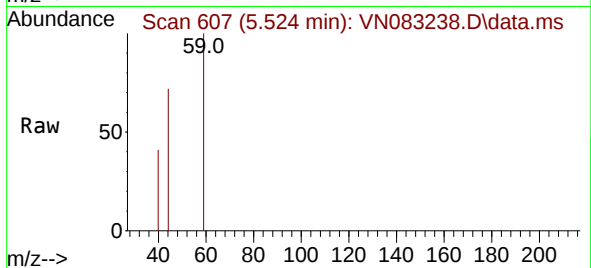
Tgt Ion: 50 Resp: 329  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.0 37.4#



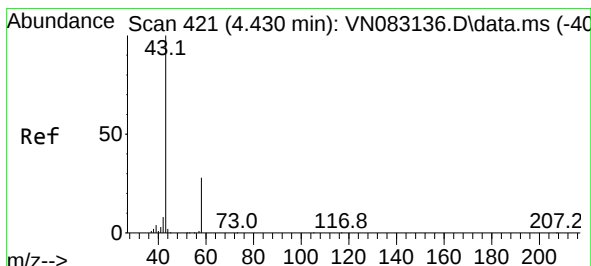
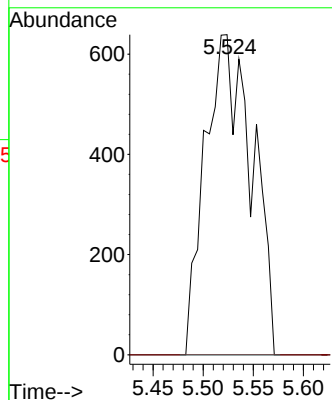
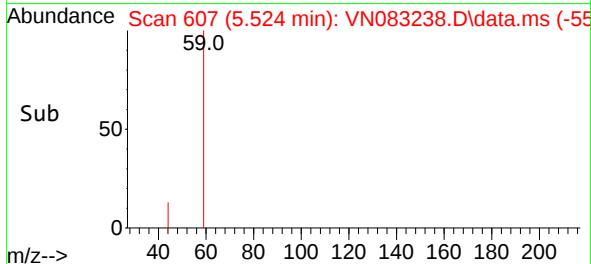


#11  
Tert butyl alcohol  
Concen: 5.195 ug/l  
RT: 5.524 min Scan# 608  
Delta R.T. -0.006 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

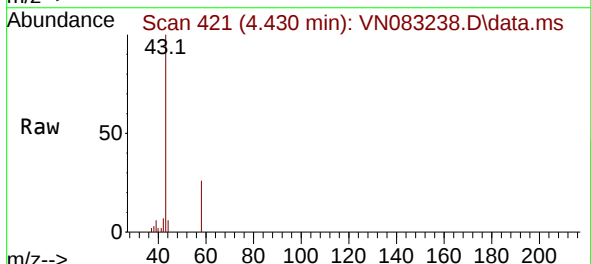
Instrument :  
MSVOA\_N  
ClientSampleId :



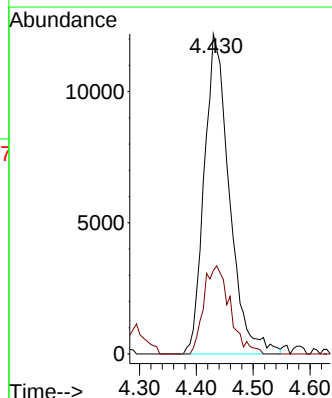
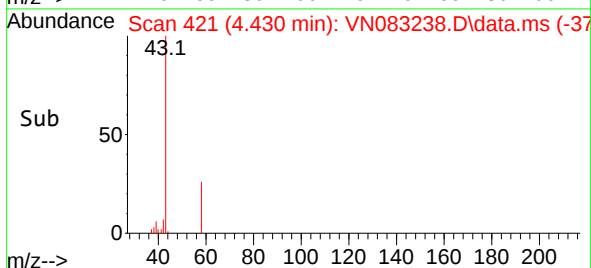
Tgt Ion: 59 Resp: 2071  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#

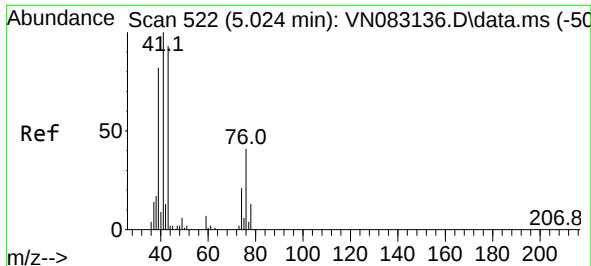


#16  
Acetone  
Concen: 49.938 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. -0.000 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23



Tgt Ion: 43 Resp: 37486  
Ion Ratio Lower Upper  
43 100  
58 26.1 21.8 32.6





#18

Methyl Acetate

Concen: 1.230 ug/l

RT: 5.030 min Scan# 51

Delta R.T. 0.006 min

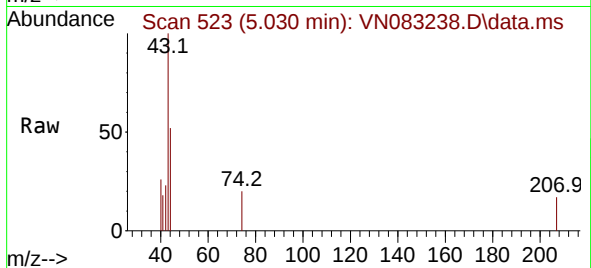
Lab File: VN083238.D

Acq: 12 Aug 2024 15:23

Instrument :

MSVOA\_N

ClientSampleId :

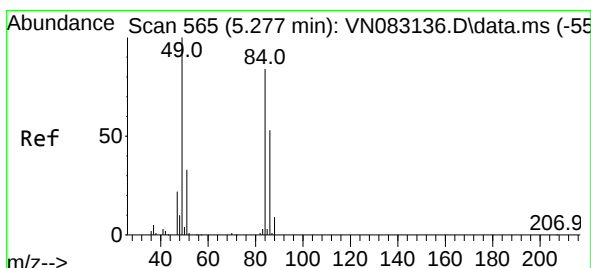
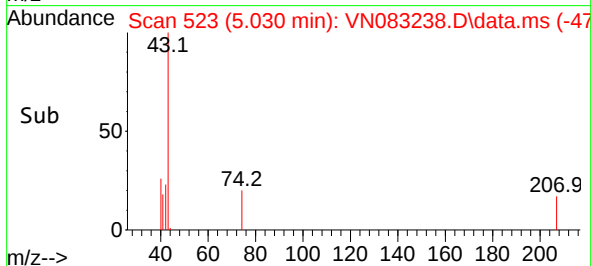
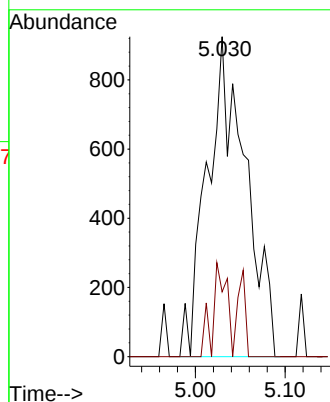


Tgt Ion: 43 Resp: 2751

Ion Ratio Lower Upper

43 100

74 10.8 16.3 24.5#



#20

Methylene Chloride

Concen: 7.380 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.006 min

Lab File: VN083238.D

Acq: 12 Aug 2024 15:23

Tgt Ion: 84 Resp: 12750

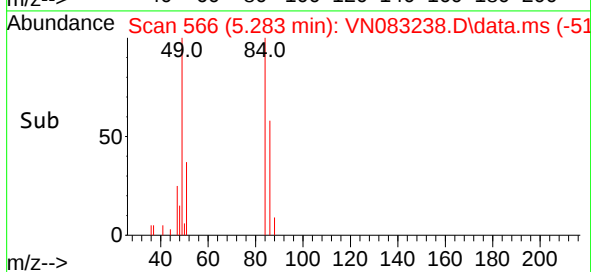
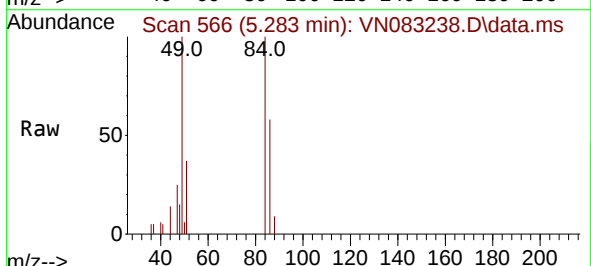
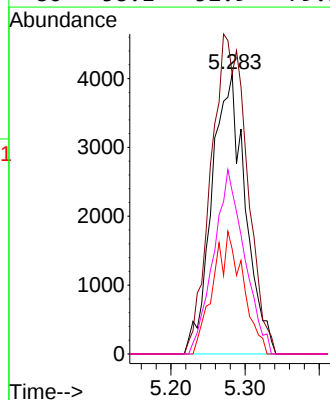
Ion Ratio Lower Upper

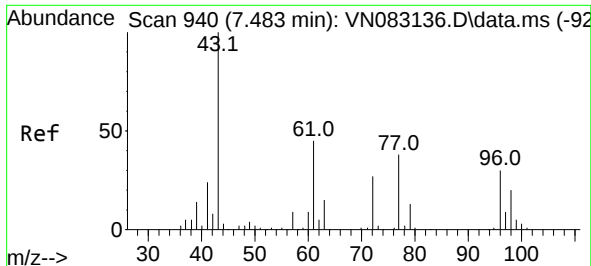
84 100

49 100.0 119.6 179.4#

51 37.5 34.8 52.2

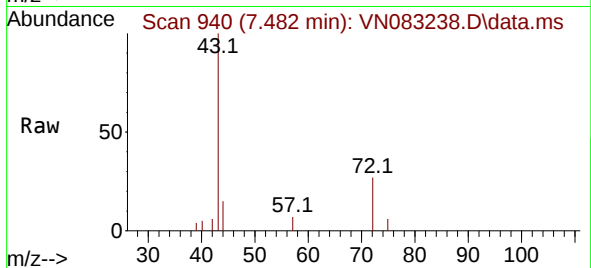
86 58.1 52.9 79.3



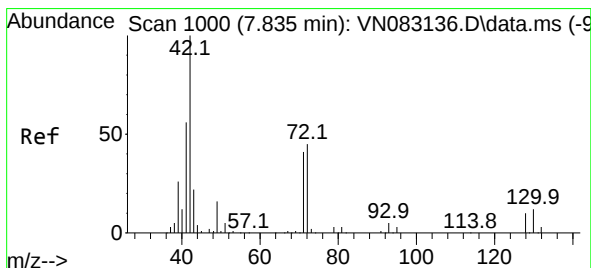
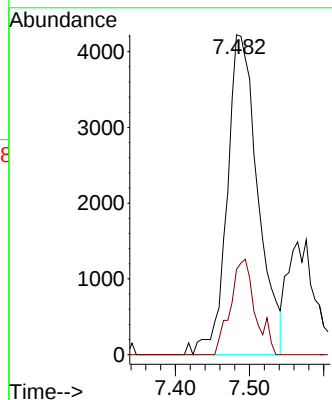
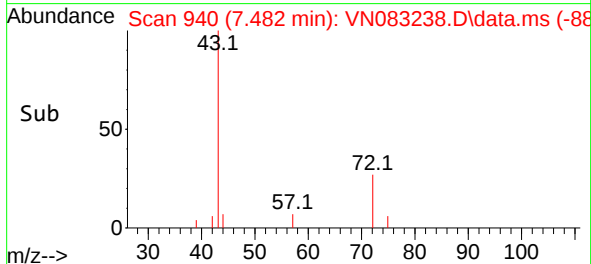


#25  
2-Butanone  
Concen: 10.553 ug/l  
RT: 7.482 min Scan# 940  
Delta R.T. -0.000 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

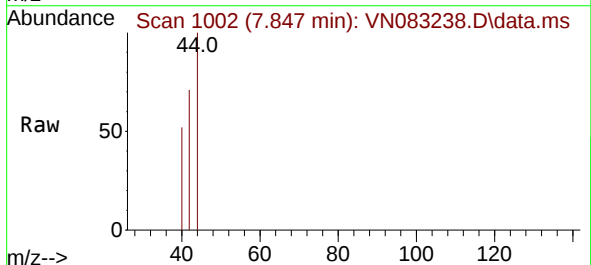
Instrument :  
MSVOA\_N  
ClientSampleId :



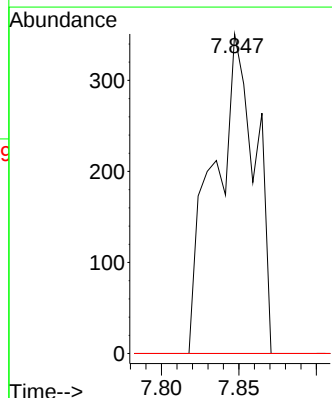
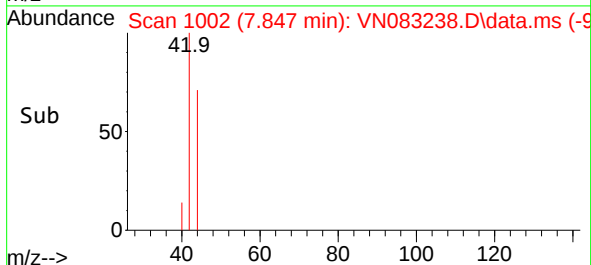
Tgt Ion: 43 Resp: 12163  
Ion Ratio Lower Upper  
43 100  
72 26.6 18.2 27.2

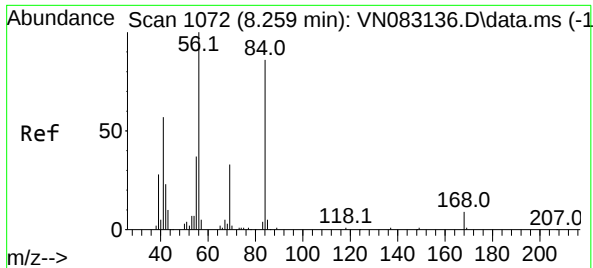


#29  
Tetrahydrofuran  
Concen: 0.880 ug/l  
RT: 7.847 min Scan# 1002  
Delta R.T. 0.012 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23



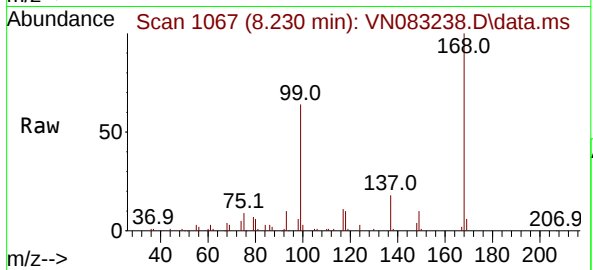
Tgt Ion: 42 Resp: 656  
Ion Ratio Lower Upper  
42 100  
72 0.0 30.0 45.0#  
71 0.0 28.3 42.5#



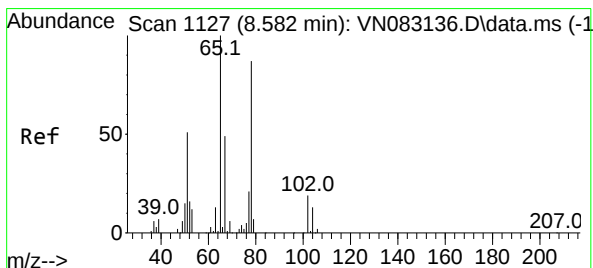
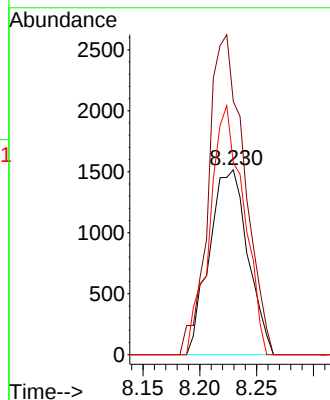
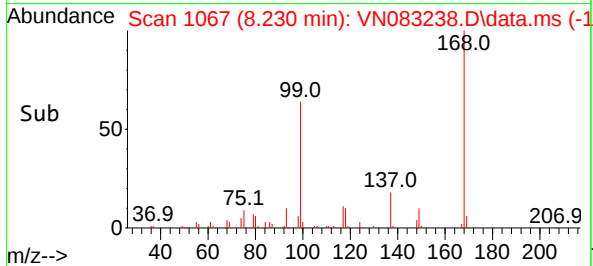


#31  
Cyclohexane  
Concen: 1.256 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.029 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

Instrument :  
MSVOA\_N  
ClientSampleId :

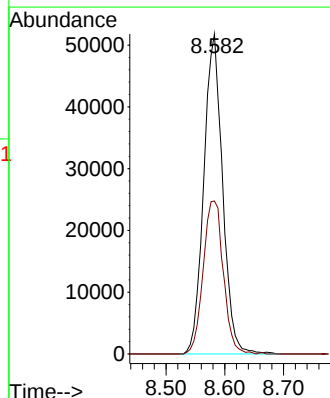
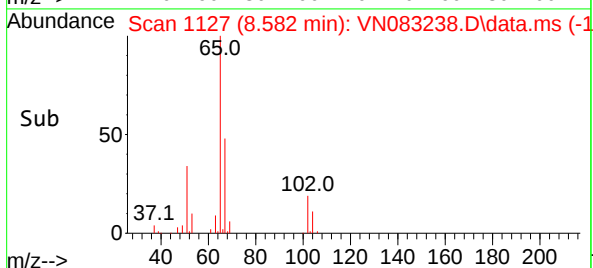
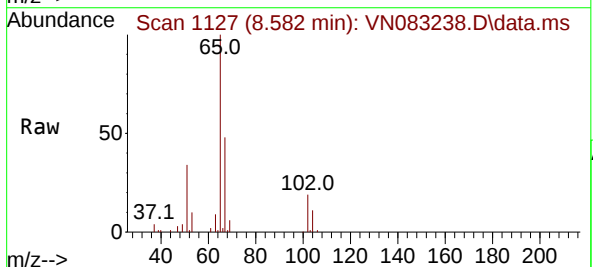


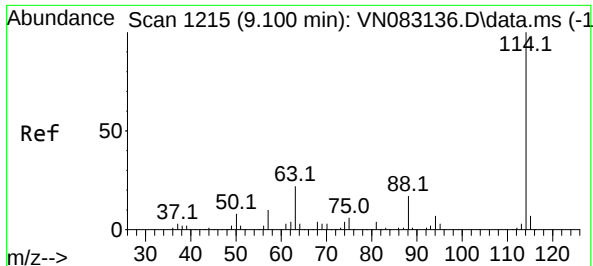
Tgt Ion: 56 Resp: 3571  
Ion Ratio Lower Upper  
56 100  
69 137.0 24.5 36.7#  
84 103.8 66.0 99.0#



#33  
1,2-Dichloroethane-d4  
Concen: 59.897 ug/l  
RT: 8.582 min Scan# 1127  
Delta R.T. -0.000 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

Tgt Ion: 65 Resp: 114906  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083238.D

Acq: 12 Aug 2024 15:23

Instrument :

MSVOA\_N

ClientSampleId :

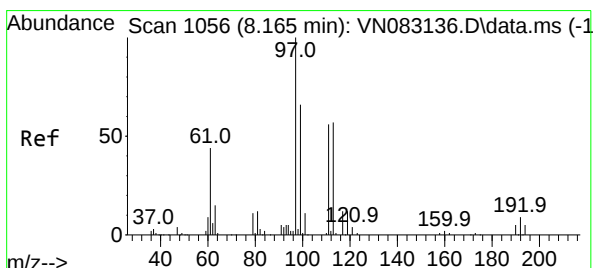
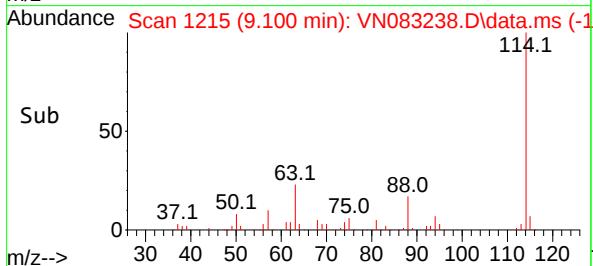
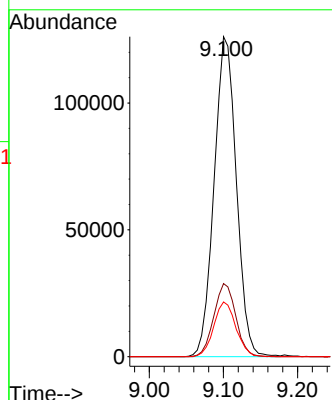
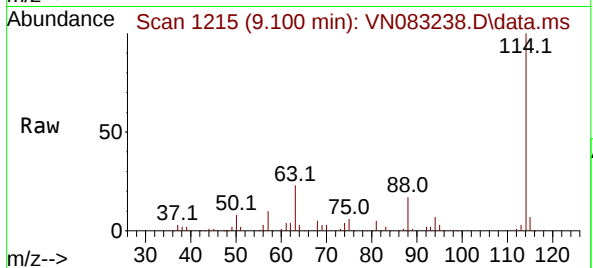
Tgt Ion:114 Resp: 262871

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 17.1 0.0 31.4



#35

Dibromofluoromethane

Concen: 55.327 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083238.D

Acq: 12 Aug 2024 15:23

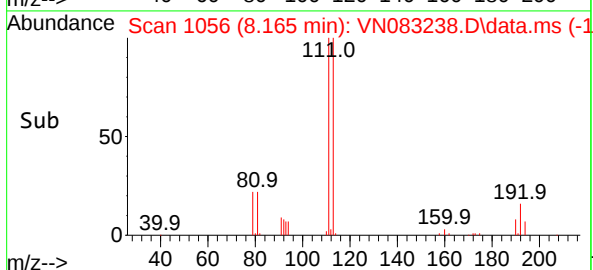
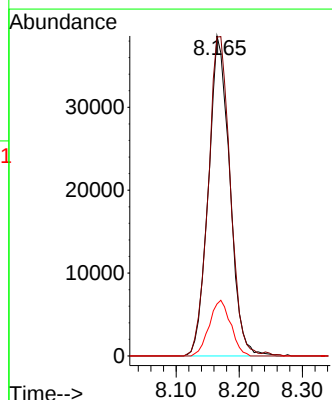
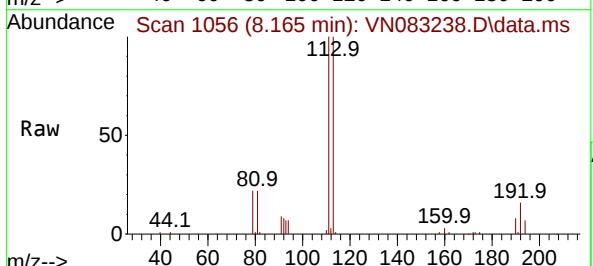
Tgt Ion:113 Resp: 90779

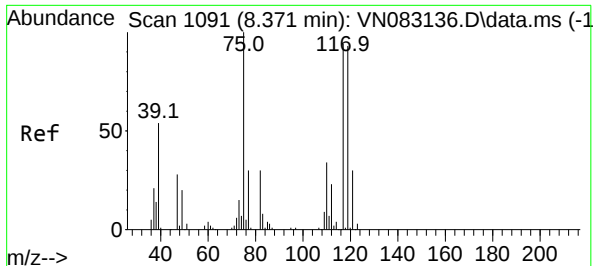
Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

192 17.5 14.9 22.3





#36

1,1-Dichloropropene

Concen: 5.041 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN083238.D

Acq: 12 Aug 2024 15:23

Instrument :

MSVOA\_N

ClientSampleId :

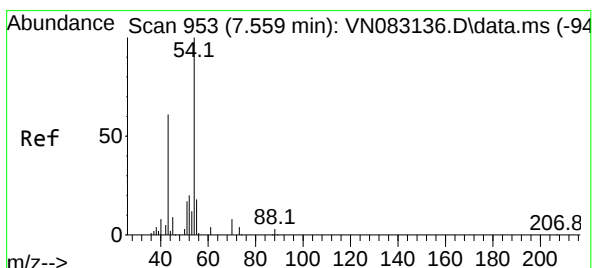
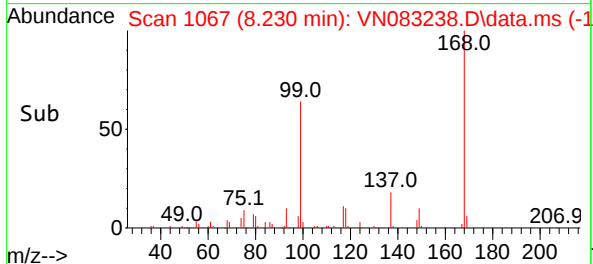
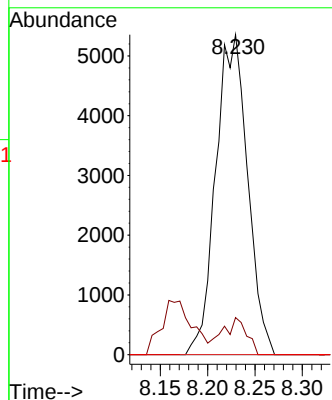
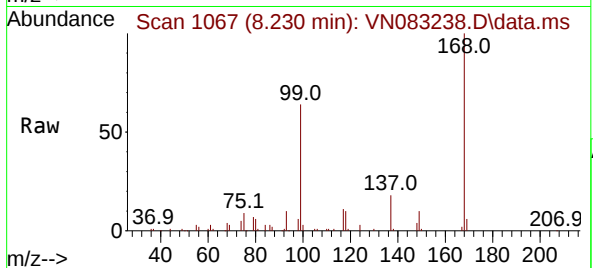
Tgt Ion: 75 Resp: 12512

Ion Ratio Lower Upper

75 100

110 8.9 16.3 48.9#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 1.359 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.018 min

Lab File: VN083238.D

Acq: 12 Aug 2024 15:23

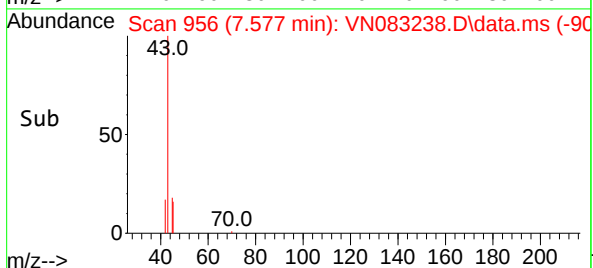
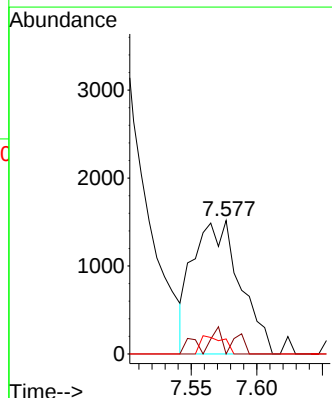
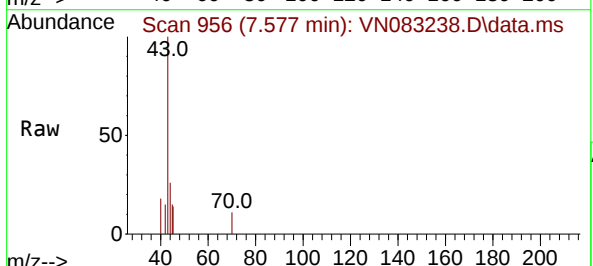
Tgt Ion: 43 Resp: 3776

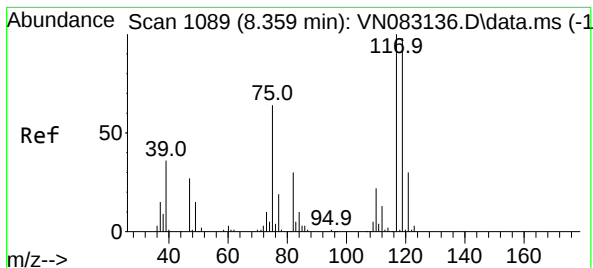
Ion Ratio Lower Upper

43 100

61 4.5 9.3 13.9#

70 6.7 7.0 10.6#





#38

Carbon Tetrachloride

Concen: 5.473 ug/l

RT: 8.224 min Scan# 1106

Delta R.T. -0.135 min

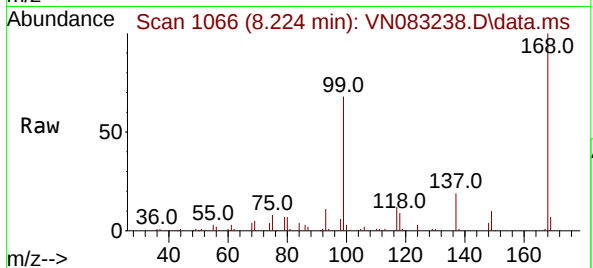
Lab File: VN083238.D

Acq: 12 Aug 2024 15:23

Instrument :

MSVOA\_N

ClientSampleId :



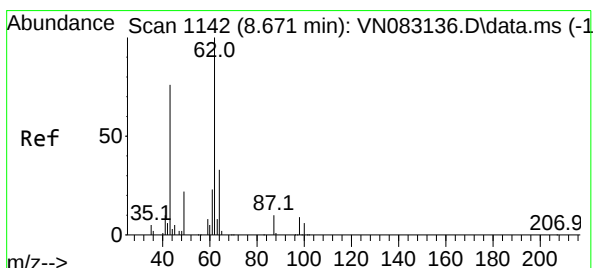
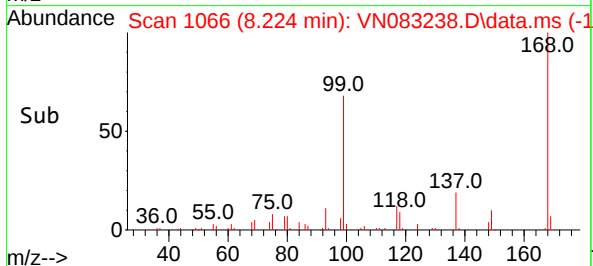
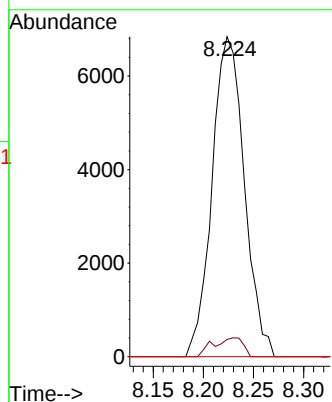
Tgt Ion:117 Resp: 15300

Ion Ratio Lower Upper

117 100

119 5.4 74.9 112.3#

121 0.0 24.3 36.5#



#42

1,2-Dichloroethane

Concen: 0.299 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN083238.D

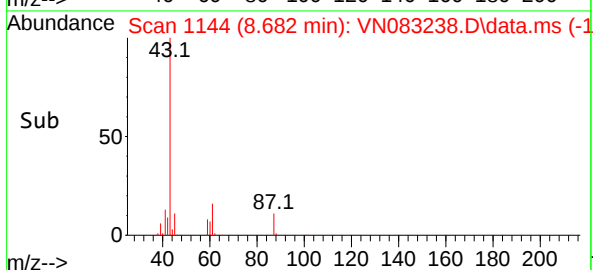
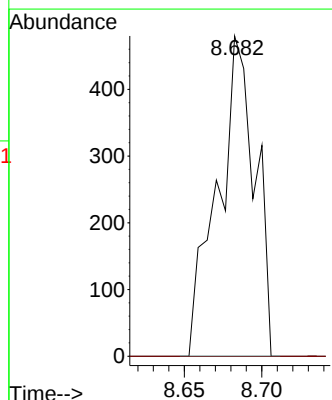
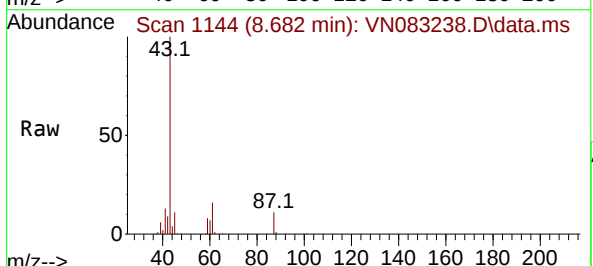
Acq: 12 Aug 2024 15:23

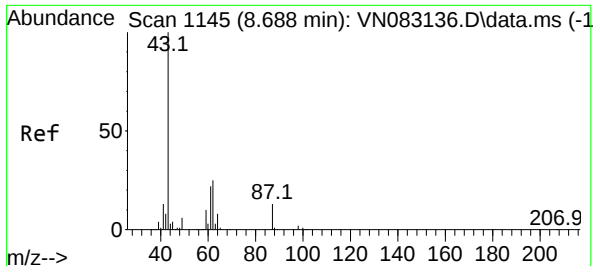
Tgt Ion: 62 Resp: 805

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8





#43

Isopropyl Acetate

Concen: 42.301 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

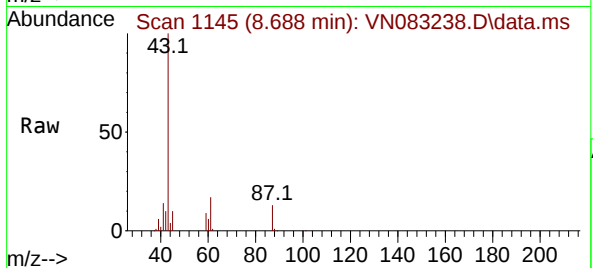
Lab File: VN083238.D

Acq: 12 Aug 2024 15:23

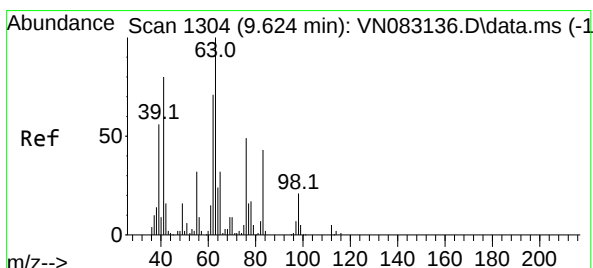
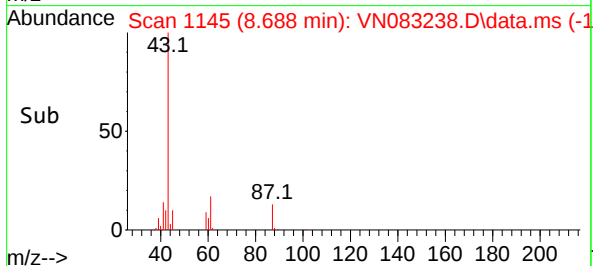
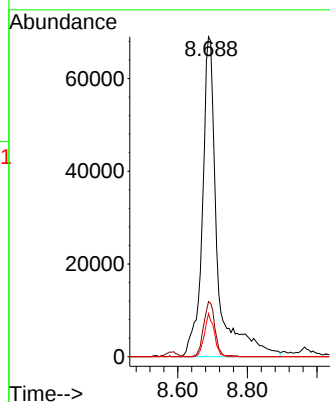
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 206183 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 61        | 13.0  | 17.8  | 26.6#  |
| 87        | 8.8   | 8.2   | 12.2   |



#45

1,2-Dichloropropane

Concen: 0.835 ug/l

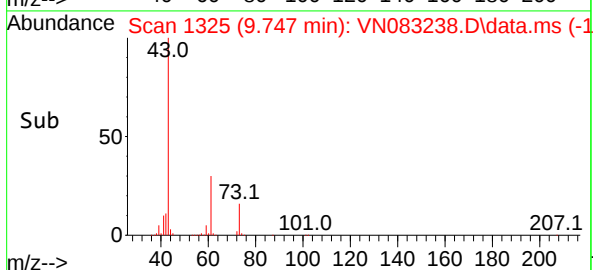
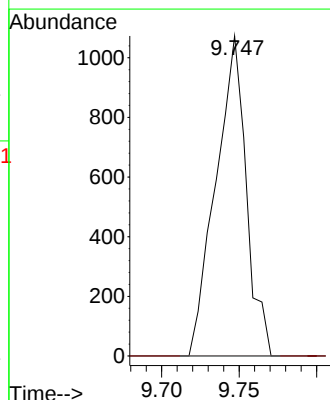
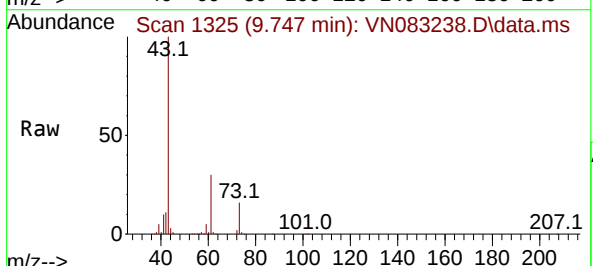
RT: 9.747 min Scan# 1325

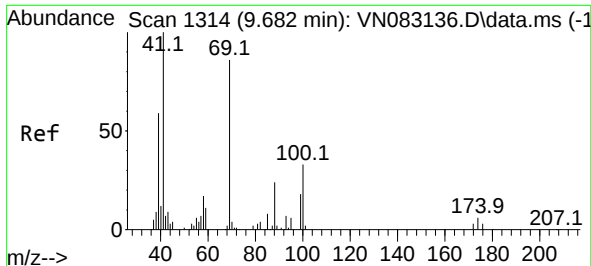
Delta R.T. 0.123 min

Lab File: VN083238.D

Acq: 12 Aug 2024 15:23

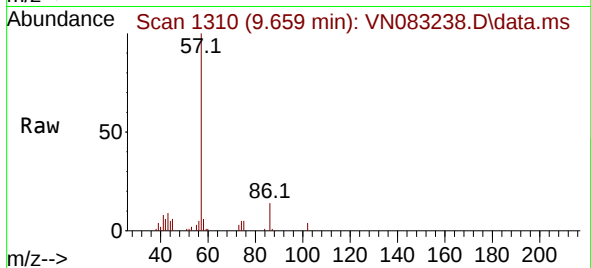
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 63    | Resp: | 1465  |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 65        | 0.0   | 24.4  | 36.6# |



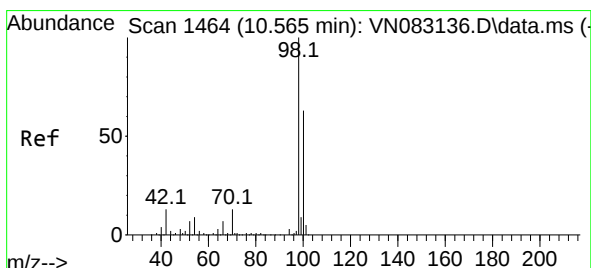
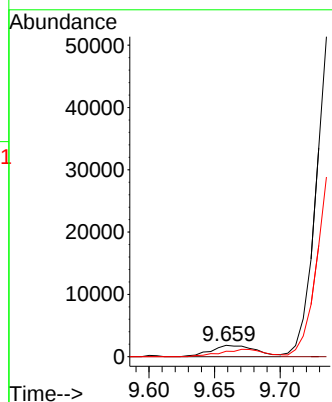
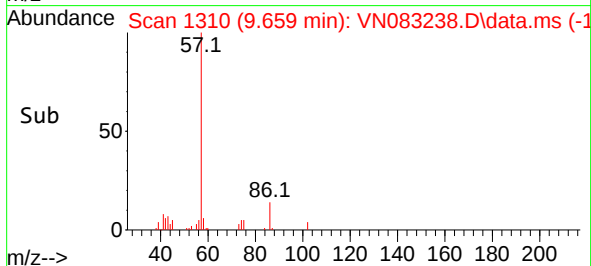


#48  
Methyl methacrylate  
Concen: 1.900 ug/l  
RT: 9.659 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

Instrument :  
MSVOA\_N  
ClientSampleId :

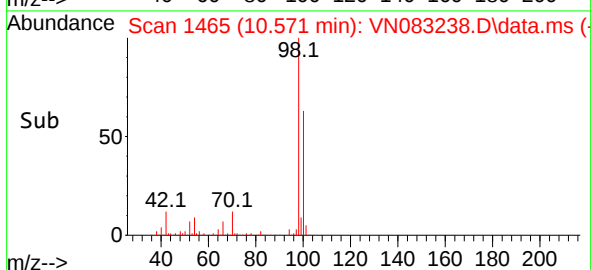
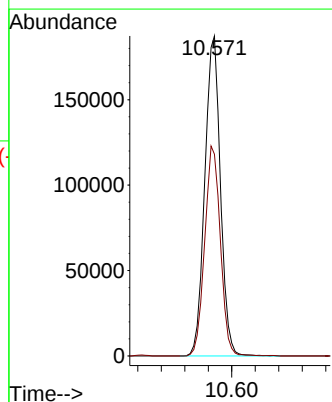
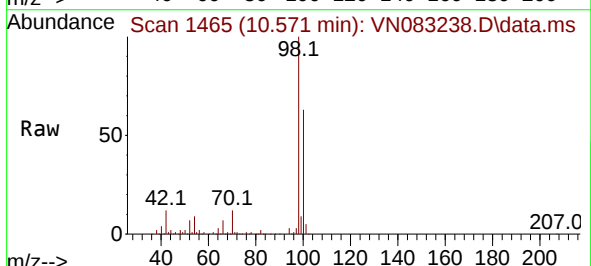


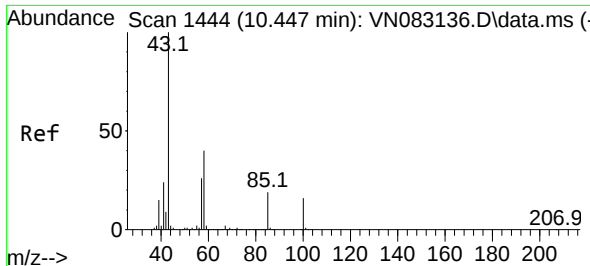
Tgt Ion: 41 Resp: 4366  
Ion Ratio Lower Upper  
41 100  
69 0.0 56.3 84.5#  
39 62.0 50.3 75.5



#50  
Toluene-d8  
Concen: 56.442 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

Tgt Ion: 98 Resp: 345456  
Ion Ratio Lower Upper  
98 100  
100 65.8 51.5 77.3

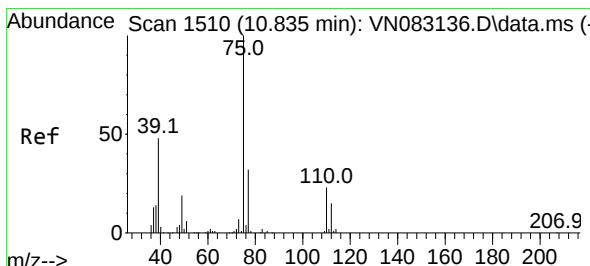
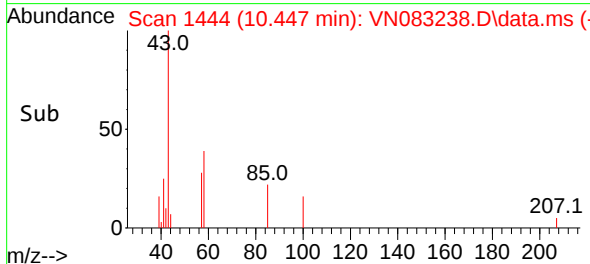
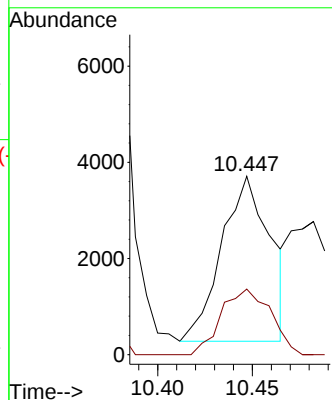
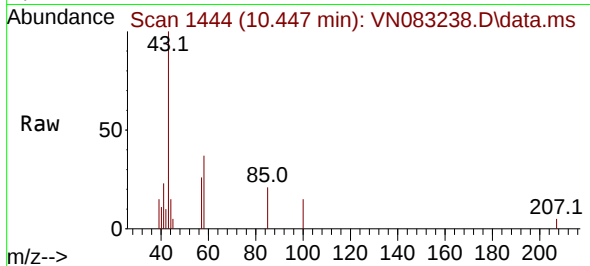




#51  
4-Methyl-2-Pentanone  
Concen: 2.332 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

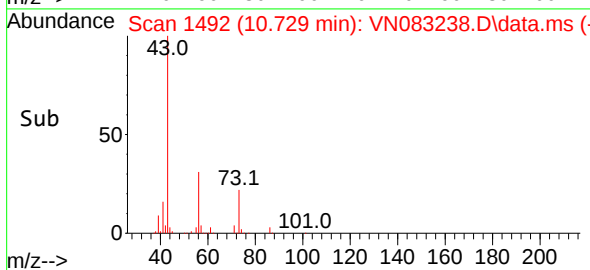
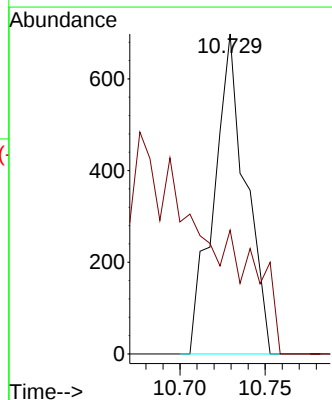
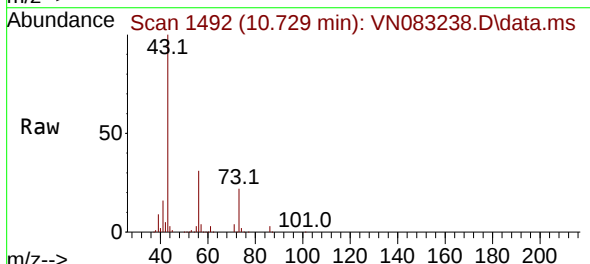
Instrument :  
MSVOA\_N  
ClientSampleId :

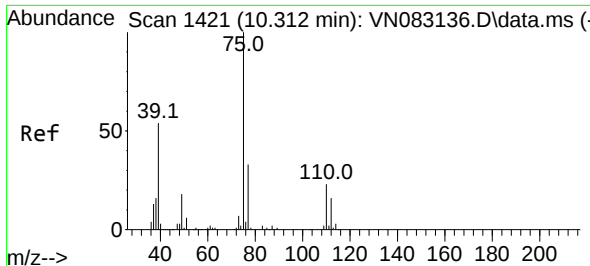
Tgt Ion: 43 Resp: 6129  
Ion Ratio Lower Upper  
43 100  
58 40.5 28.2 42.4



#53  
t-1,3-Dichloropropene  
Concen: 0.314 ug/l  
RT: 10.729 min Scan# 1492  
Delta R.T. -0.106 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

Tgt Ion: 75 Resp: 909  
Ion Ratio Lower Upper  
75 100  
77 38.7 25.7 38.5#

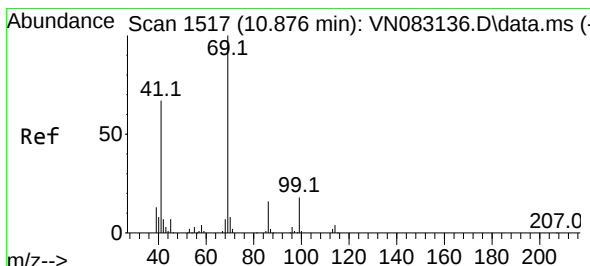
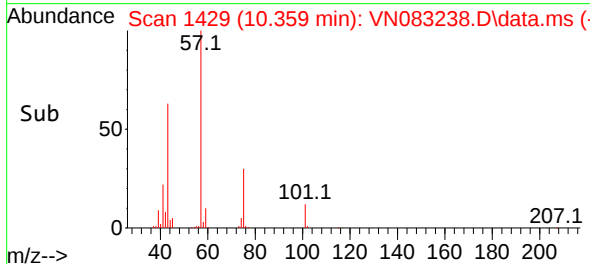
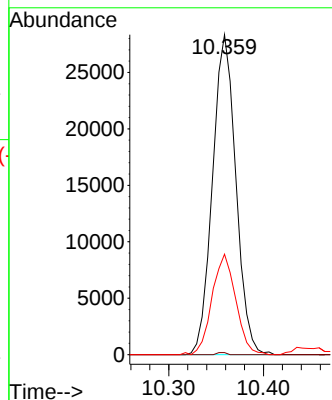
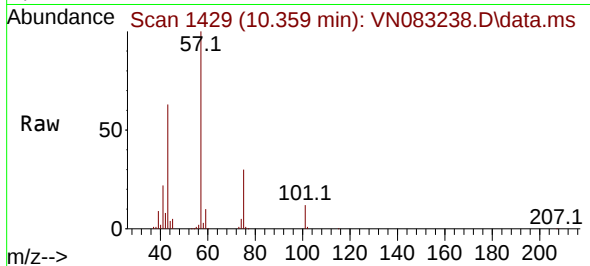




#54  
 cis-1,3-Dichloropropene  
 Concen: 15.735 ug/l  
 RT: 10.359 min Scan# 1429  
 Delta R.T. 0.047 min  
 Lab File: VN083238.D  
 Acq: 12 Aug 2024 15:23

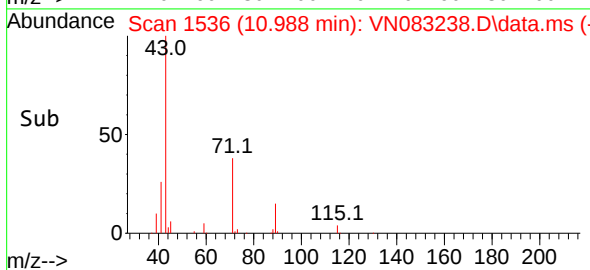
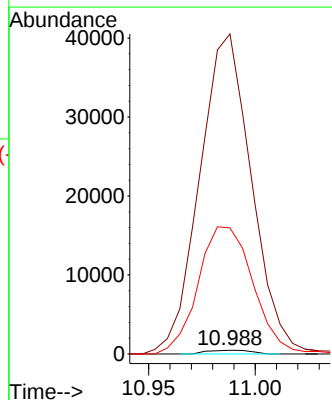
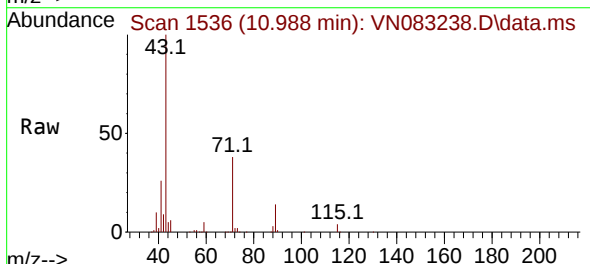
Instrument :  
 MSVOA\_N  
 ClientSampleId :

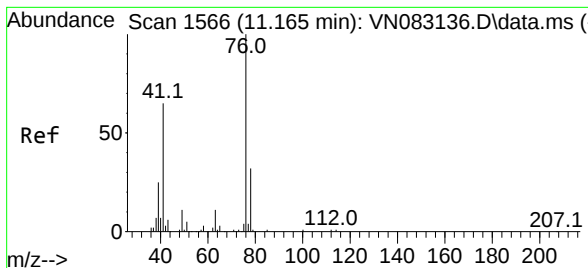
Tgt Ion: 75 Resp: 48496  
 Ion Ratio Lower Upper  
 75 100  
 77 0.7 24.3 36.5#  
 39 31.4 50.5 75.7#



#56  
 Ethyl methacrylate  
 Concen: 0.212 ug/l  
 RT: 10.988 min Scan# 1536  
 Delta R.T. 0.112 min  
 Lab File: VN083238.D  
 Acq: 12 Aug 2024 15:23

Tgt Ion: 69 Resp: 670  
 Ion Ratio Lower Upper  
 69 100  
 41 10315.8 63.4 95.2#  
 39 4333.1 37.4 56.0#

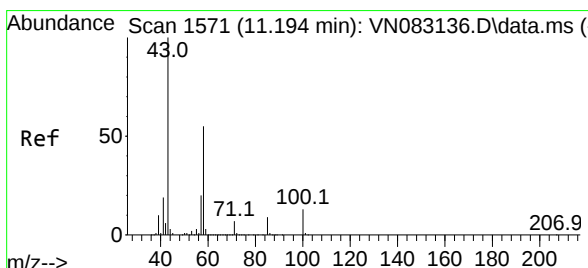
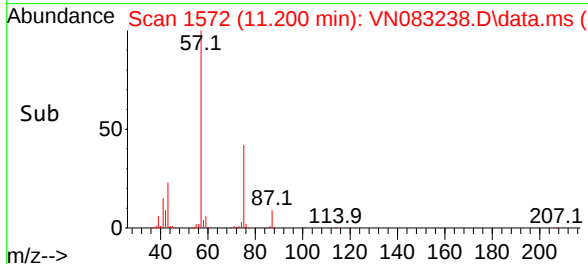
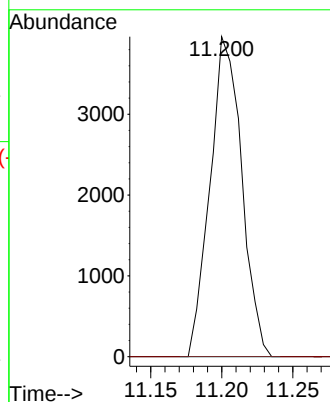
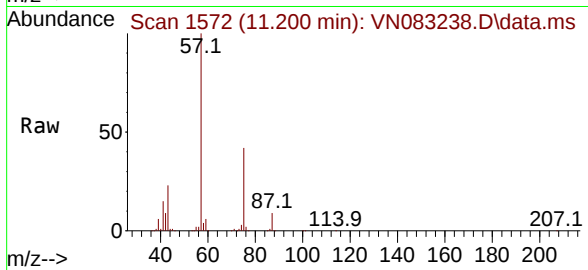




#57  
1,3-Dichloropropane  
Concen: 2.058 ug/l  
RT: 11.200 min Scan# 1572  
Delta R.T. 0.035 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

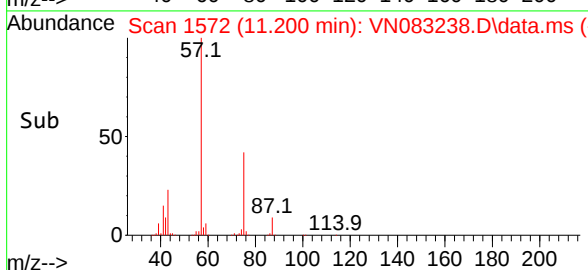
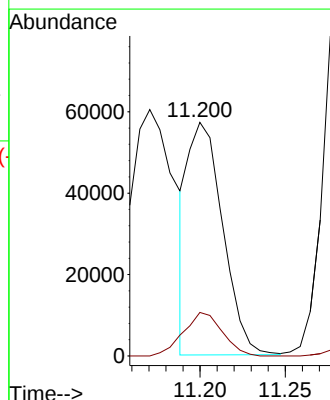
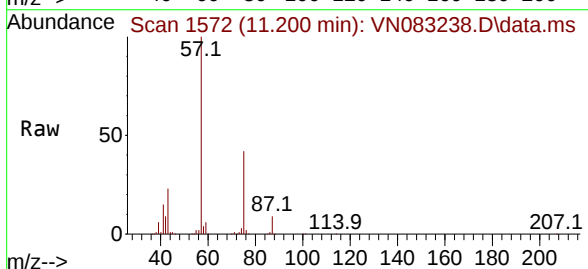
Instrument :  
MSVOA\_N  
ClientSampleId :

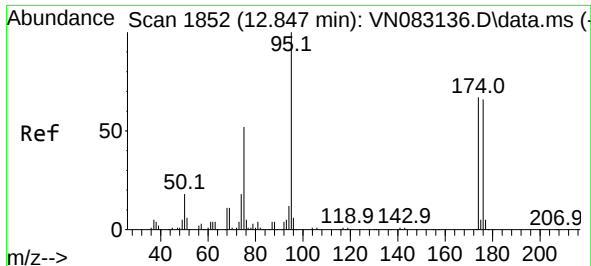
Tgt Ion: 76 Resp: 6141  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.6 38.4#



#59  
2-Hexanone  
Concen: 40.000 ug/l  
RT: 11.200 min Scan# 1572  
Delta R.T. 0.006 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

Tgt Ion: 43 Resp: 81325  
Ion Ratio Lower Upper  
43 100  
58 20.9 24.6 73.8#

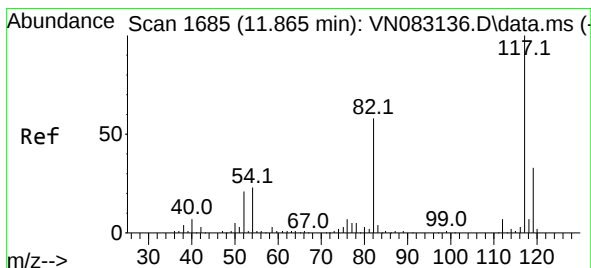
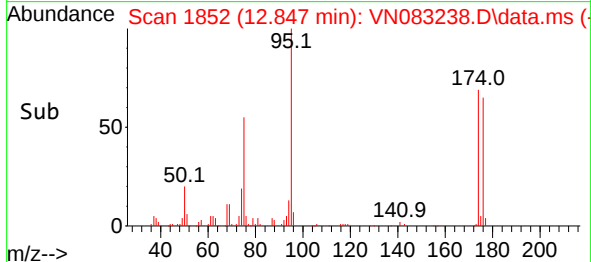
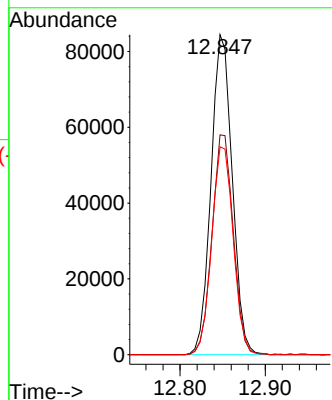
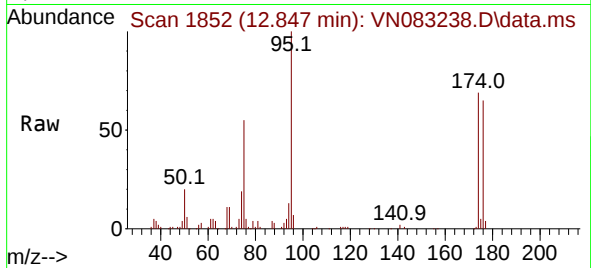




#62  
4-Bromofluorobenzene  
Concen: 61.339 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

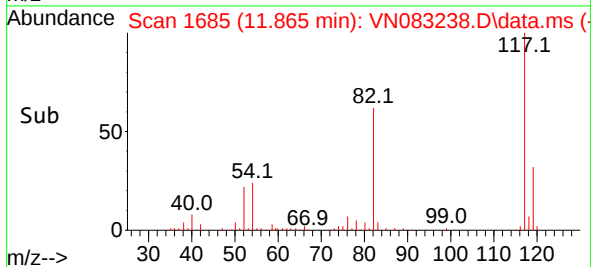
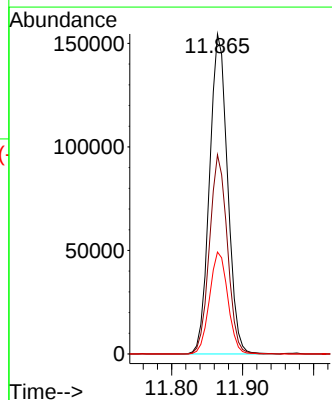
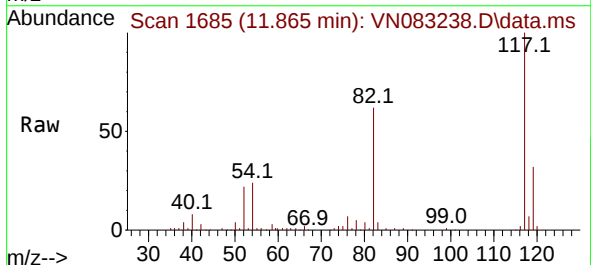
Instrument :  
MSVOA\_N  
ClientSampleId :

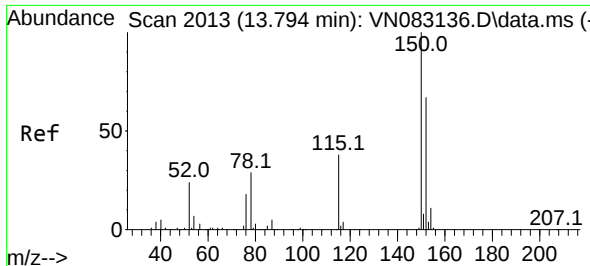
Tgt Ion: 95 Resp: 146362  
Ion Ratio Lower Upper  
95 100  
174 69.0 0.0 159.2  
176 66.0 0.0 147.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

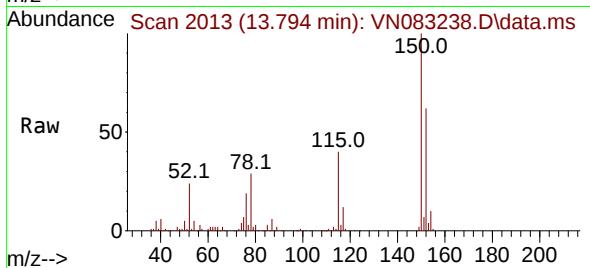
Tgt Ion: 117 Resp: 272548  
Ion Ratio Lower Upper  
117 100  
82 62.3 47.5 71.3  
119 31.9 25.6 38.4



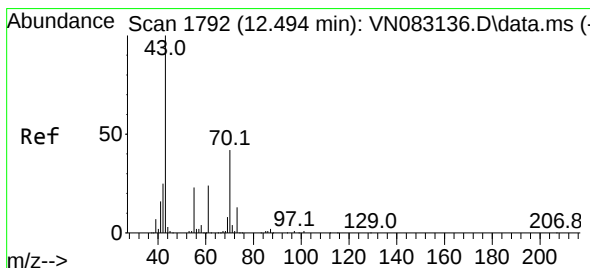
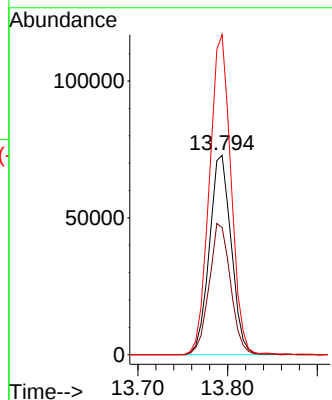
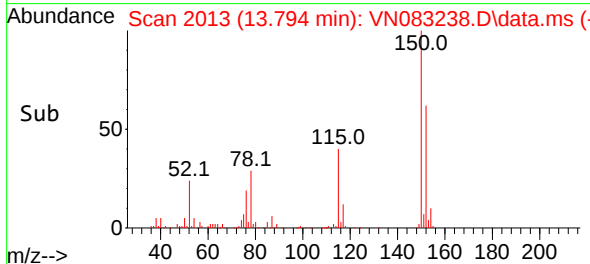


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

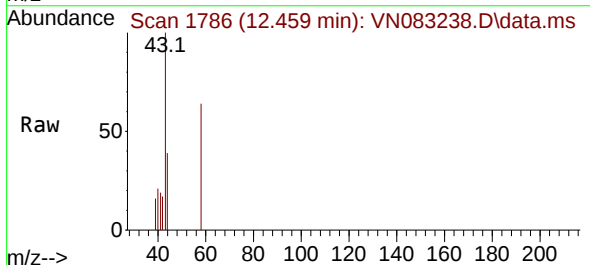
Instrument :  
MSVOA\_N  
ClientSampleId :



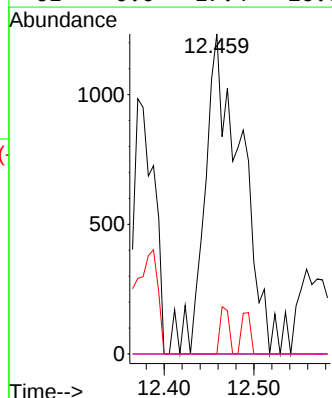
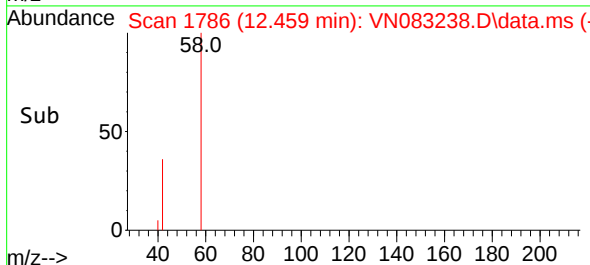
Tgt Ion:152 Resp: 123280  
Ion Ratio Lower Upper  
152 100  
115 64.5 30.6 91.6  
150 158.5 0.0 348.6

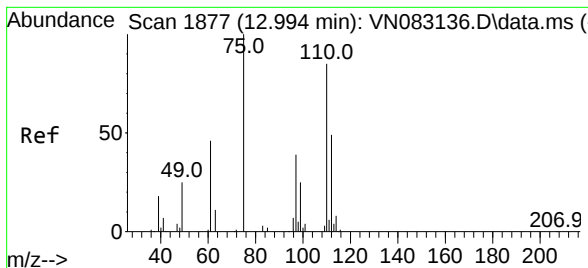


#74  
N-ethyl acetate  
Concen: 0.685 ug/l  
RT: 12.459 min Scan# 1786  
Delta R.T. -0.035 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23



Tgt Ion: 43 Resp: 3455  
Ion Ratio Lower Upper  
43 100  
70 0.0 29.8 44.6#  
55 3.6 18.7 28.1#  
61 0.0 17.4 26.0#

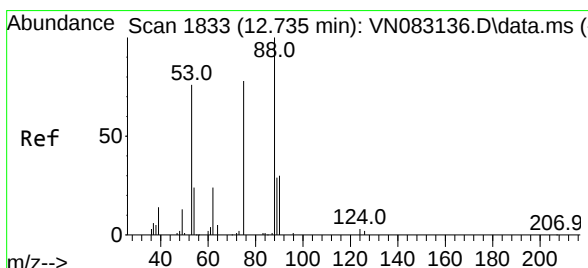
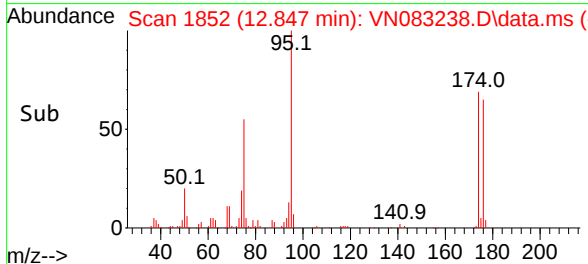
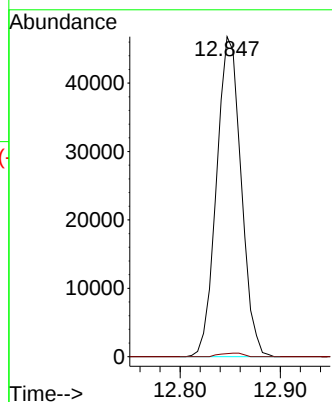
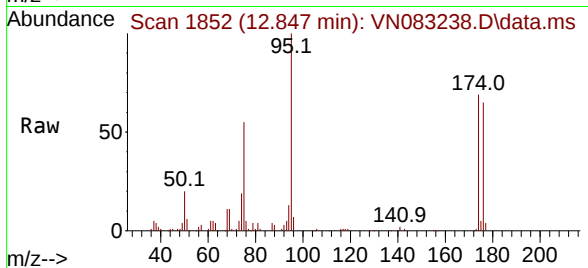




#76  
1,2,3-Trichloropropane  
Concen: 29.455 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 79697  
Ion Ratio Lower Upper  
75 100  
77 1.1 110.9 332.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.072 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN083238.D  
Acq: 12 Aug 2024 15:23

Tgt Ion: 75 Resp: 79697  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.4 132.6#  
89 0.0 36.3 54.5#

