

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091924\  
 Data File : VN084054.D  
 Acq On : 19 Sep 2024 23:18  
 Operator : JC\MD  
 Sample : P4003-20  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUPE03-20240913

Quant Time: Sep 20 01:40:31 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

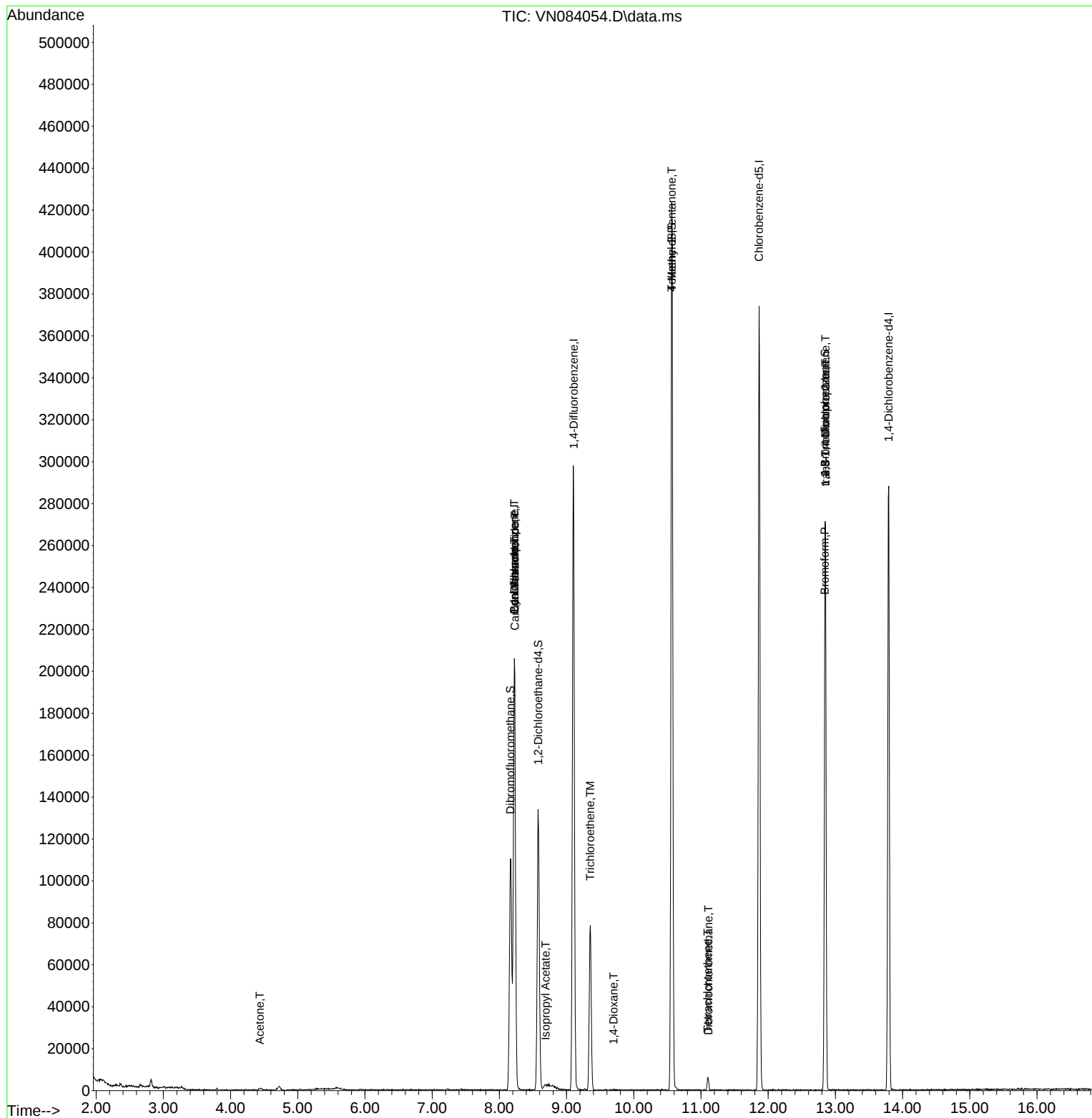
| Compound                      | R.T.           | QIon | Response            | Conc          | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------------|--------|----------|
| -----                         |                |      |                     |               |        |          |
| Internal Standards            |                |      |                     |               |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 137602              | 50.000        | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 239577              | 50.000        | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 200028              | 50.000        | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 73380               | 50.000        | ug/l   | 0.00     |
|                               |                |      |                     |               |        |          |
| System Monitoring Compounds   |                |      |                     |               |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 109760              | 52.900        | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 105.800% |               |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 79197               | 51.636        | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 103.280% |               |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 284521              | 53.661        | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 107.320% |               |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 93365               | 42.680        | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 85.360%  |               |        |          |
|                               |                |      |                     |               |        |          |
| Target Compounds              |                |      |                     |               | Qvalue |          |
| 3) Chloromethane              | 2.359          | 50   | 1141                | Below Cal     |        | 97       |
| 16) Acetone                   | 4.436          | 43   | 609                 | 0.732 ug/l #  |        | 45       |
| 18) Methyl Acetate            | 5.030          | 43   | 190                 | Below Cal #   |        | 52       |
| 31) Cyclohexane               | 8.224          | 56   | 3808                | 1.270 ug/l #  |        | 40       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 12672               | 5.489 ug/l #  |        | 50       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 15872               | 6.060 ug/l #  |        | 18       |
| 43) Isopropyl Acetate         | 8.688          | 43   | 2649                | 0.698 ug/l #  |        | 57       |
| 44) Trichloroethene           | 9.353          | 130  | 27492               | 17.086 ug/l   |        | 97       |
| 49) 1,4-Dioxane               | 9.700          | 88   | 143                 | 4.825 ug/l #  |        | 70       |
| 51) 4-Methyl-2-Pentanone      | 10.565         | 43   | 1392                | 0.673 ug/l #  |        | 1        |
| 60) Dibromochloromethane      | 11.112         | 129  | 1462                | 0.823 ug/l #  |        | 10       |
| 64) Tetrachloroethene         | 11.100         | 164  | 1130                | 0.849 ug/l #  |        | 78       |
| 71) Bromoform                 | 12.841         | 173  | 414                 | 0.399 ug/l #  |        | 29       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 53966               | 36.447 ug/l # |        | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 53966               | 95.458 ug/l # |        | 9        |
| -----                         |                |      |                     |               |        |          |

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

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ClientSampleId :  
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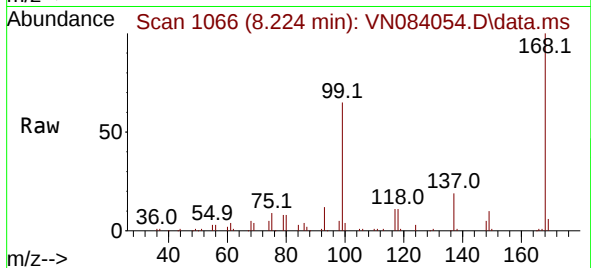
Quant Time: Sep 20 01:40:31 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
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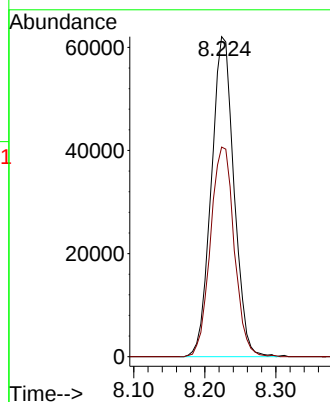
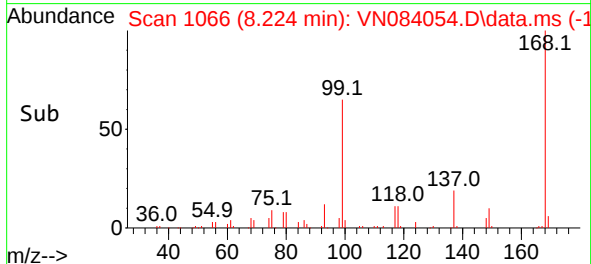


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPE03-20240913

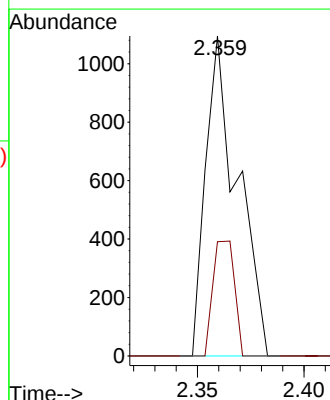
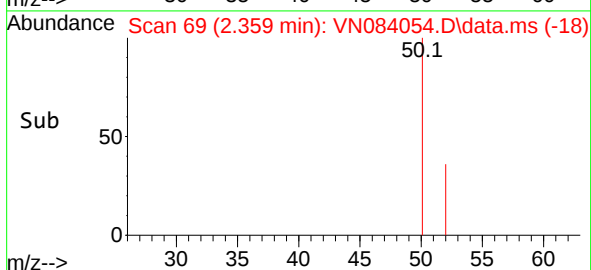
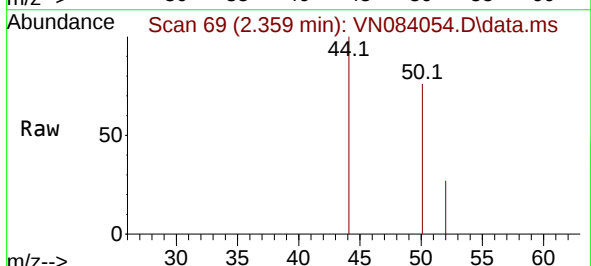


Tgt Ion:168 Resp: 137602  
Ion Ratio Lower Upper  
168 100  
99 65.5 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

Tgt Ion: 50 Resp: 1141  
Ion Ratio Lower Upper  
50 100  
52 35.7 27.2 40.8

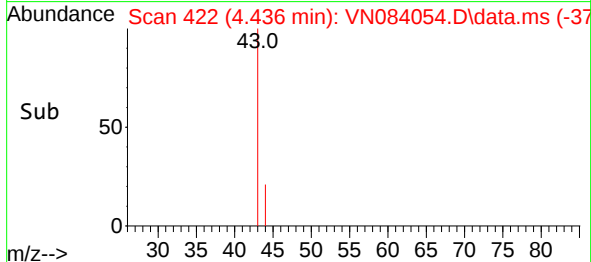
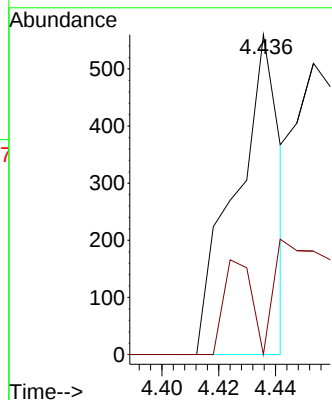
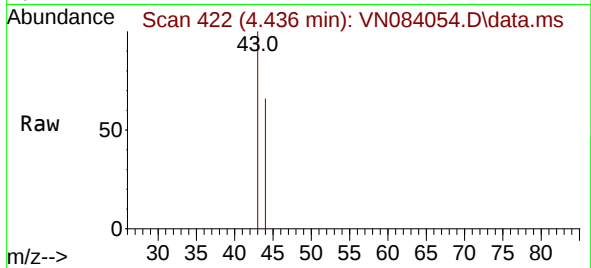




#16  
Acetone  
Concen: 0.732 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

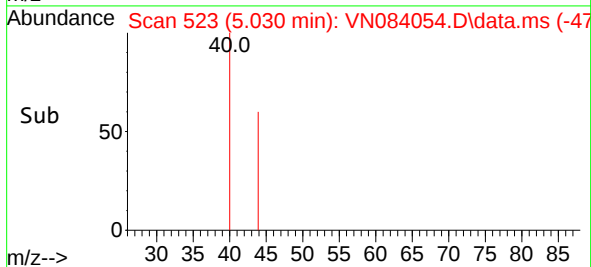
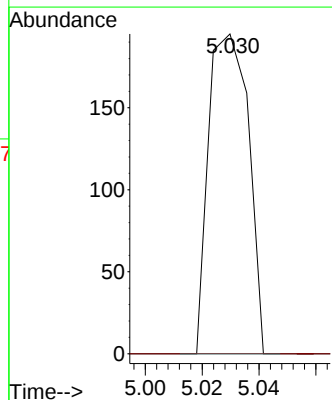
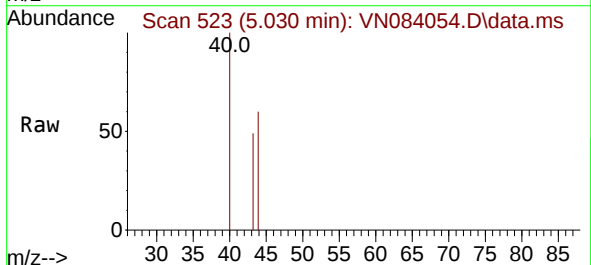
Instrument :  
MSVOA\_N  
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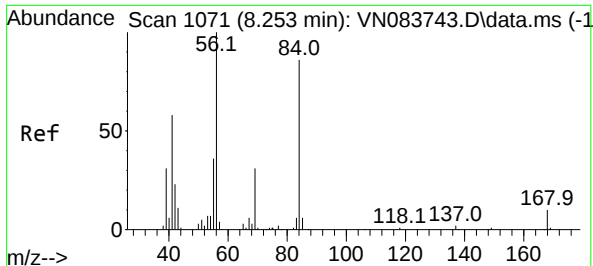
Tgt Ion: 43 Resp: 609  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.7 35.5#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.030 min Scan# 523  
Delta R.T. 0.006 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

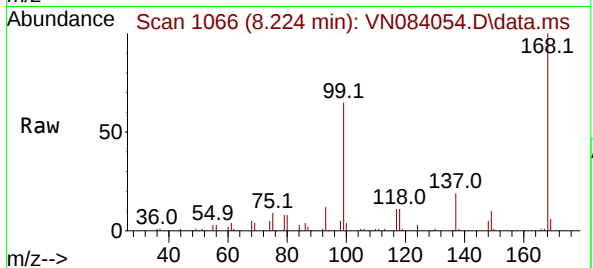
Tgt Ion: 43 Resp: 190  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.0 28.4#



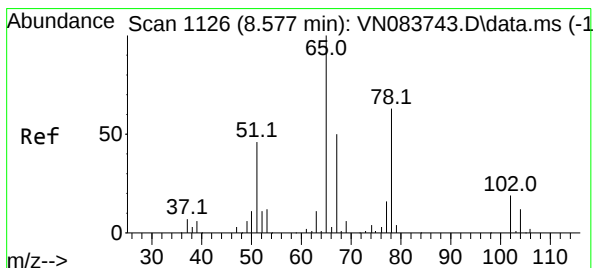
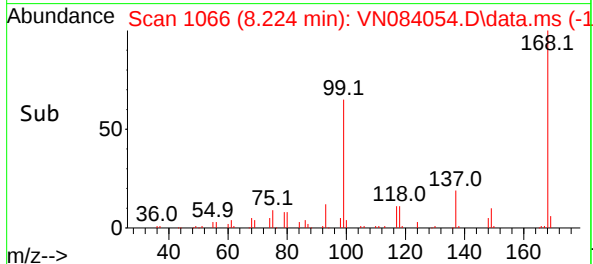
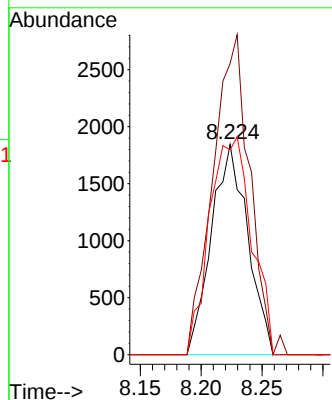


#31  
Cyclohexane  
Concen: 1.270 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPE03-20240913

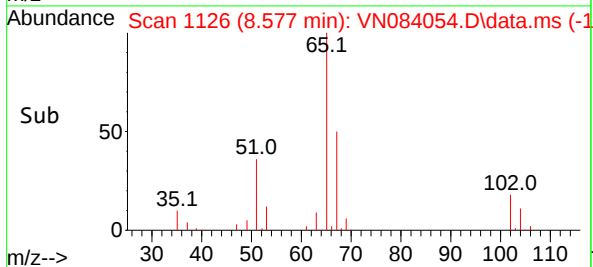
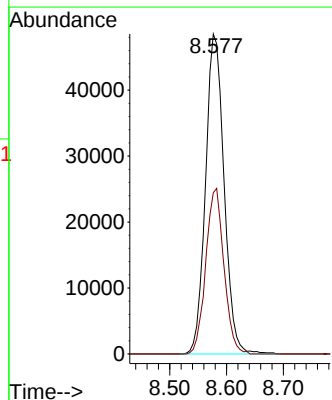
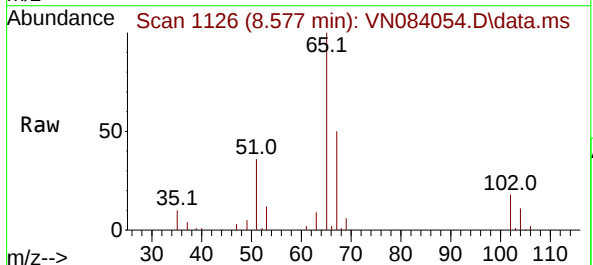


Tgt Ion: 56 Resp: 3808  
Ion Ratio Lower Upper  
56 100  
69 138.5 26.9 40.3#  
84 97.3 69.2 103.8



#33  
1,2-Dichloroethane-d4  
Concen: 52.900 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

Tgt Ion: 65 Resp: 109760  
Ion Ratio Lower Upper  
65 100  
67 50.7 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN084054.D

Acq: 19 Sep 2024 23:18

Instrument :

MSVOA\_N

ClientSampleId :

DUPE03-20240913

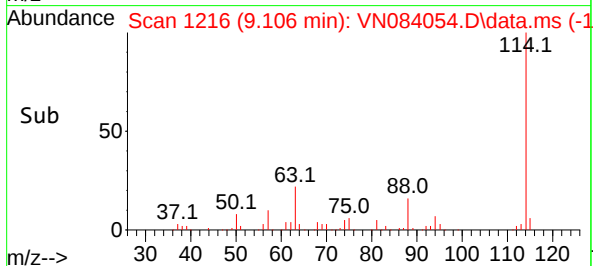
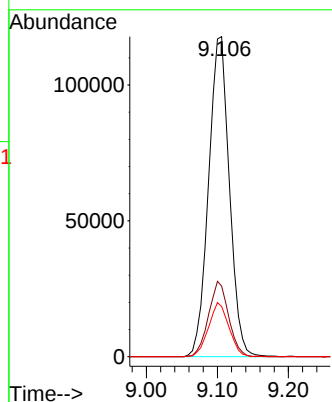
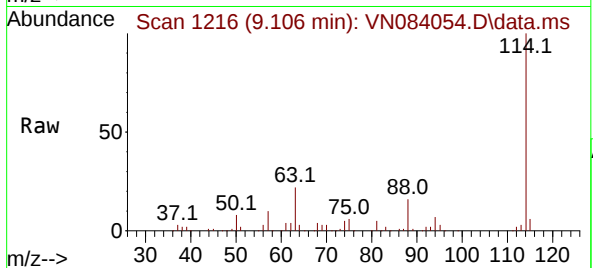
Tgt Ion:114 Resp: 239577

Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.4

88 15.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.636 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084054.D

Acq: 19 Sep 2024 23:18

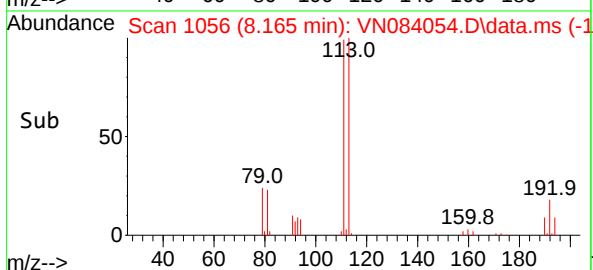
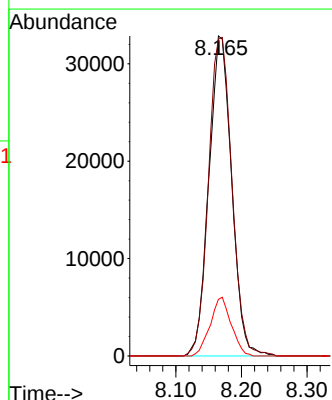
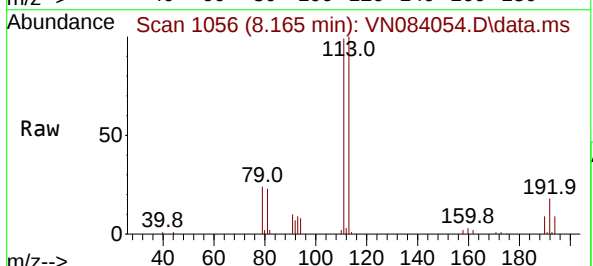
Tgt Ion:113 Resp: 79197

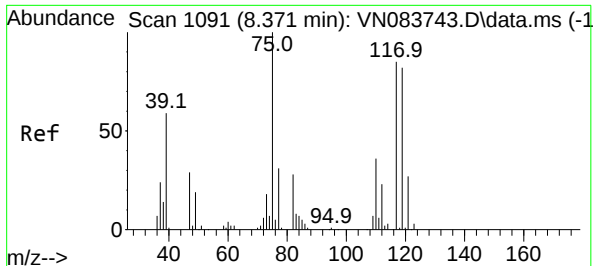
Ion Ratio Lower Upper

113 100

111 102.4 82.6 124.0

192 17.0 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.489 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084054.D

Acq: 19 Sep 2024 23:18

Instrument :

MSVOA\_N

ClientSampleId :

DUPE03-20240913

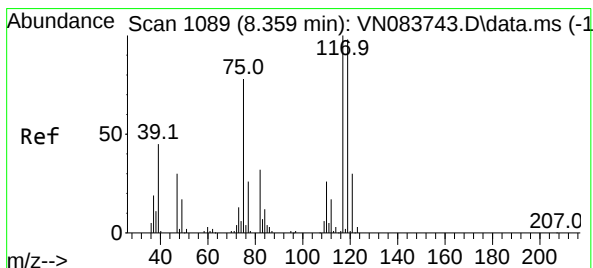
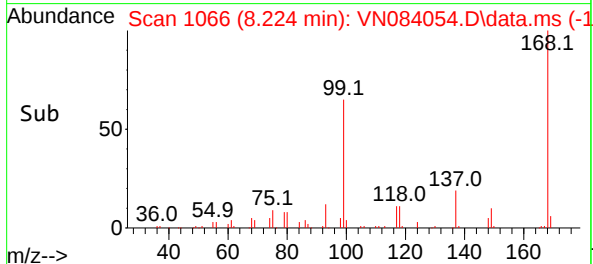
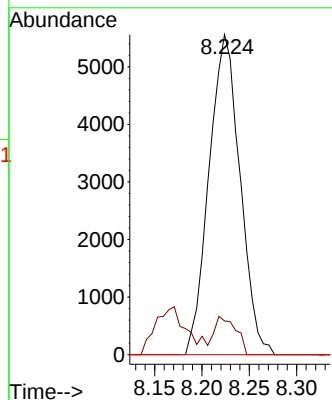
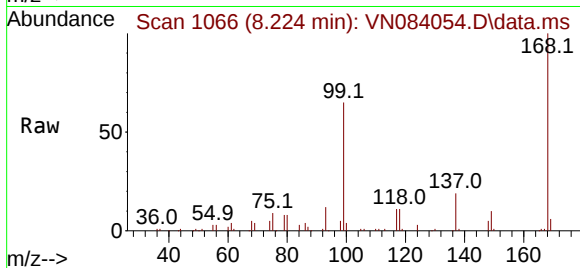
Tgt Ion: 75 Resp: 12672

Ion Ratio Lower Upper

75 100

110 8.3 16.7 50.1#

77 0.0 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 6.060 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN084054.D

Acq: 19 Sep 2024 23:18

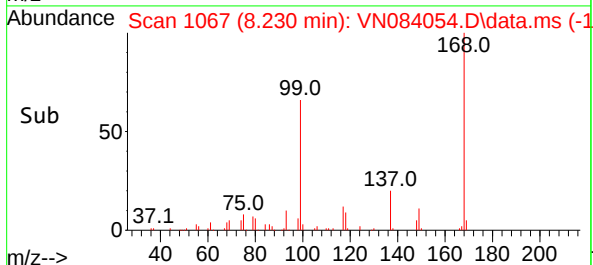
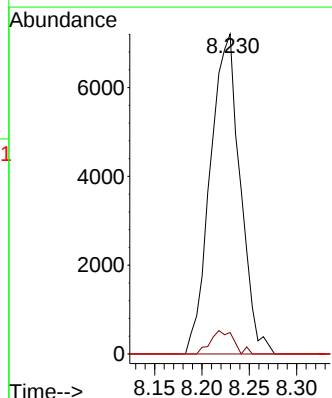
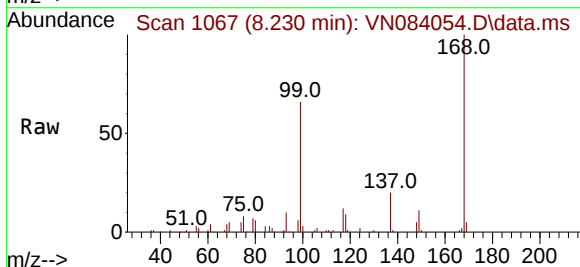
Tgt Ion: 117 Resp: 15872

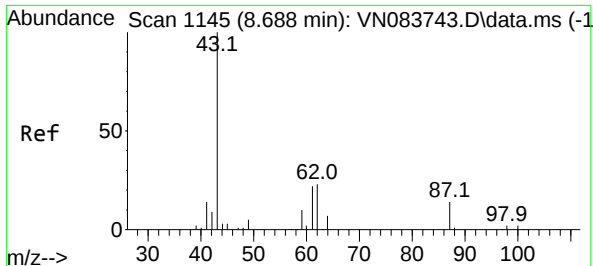
Ion Ratio Lower Upper

117 100

119 6.7 76.1 114.1#

121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 0.698 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

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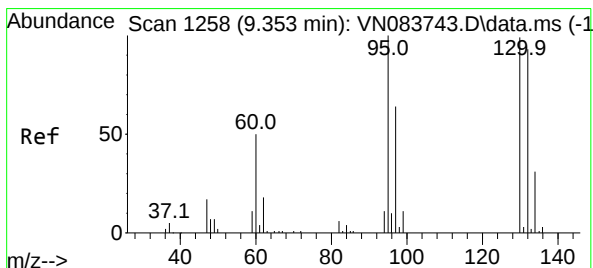
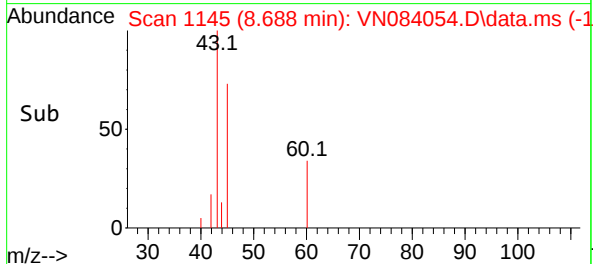
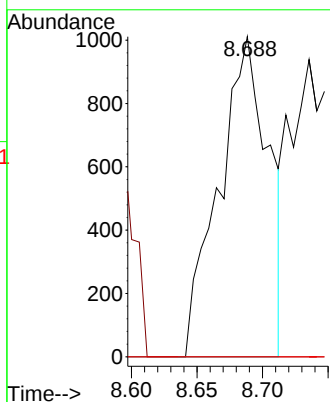
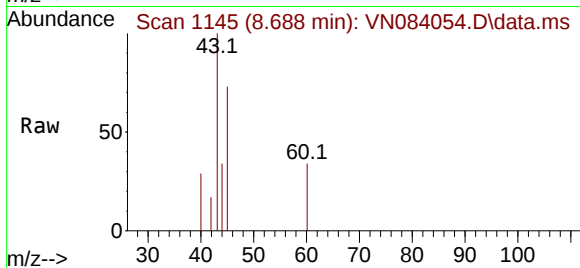
Tgt Ion: 43 Resp: 2649

Ion Ratio Lower Upper

43 100

61 0.0 19.4 29.0#

87 0.0 9.8 14.6#



#44

Trichloroethene

Concen: 17.086 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. -0.000 min

Lab File: VN084054.D

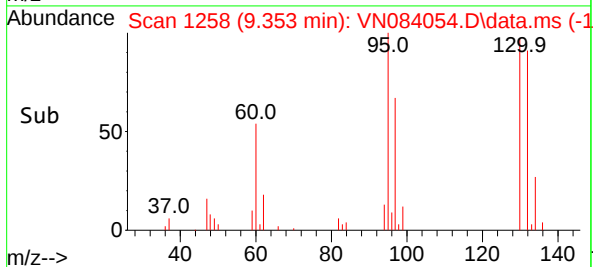
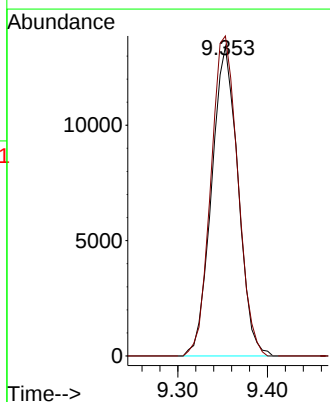
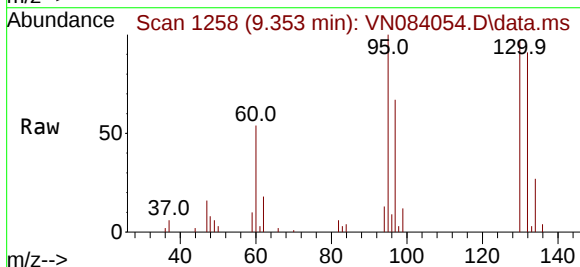
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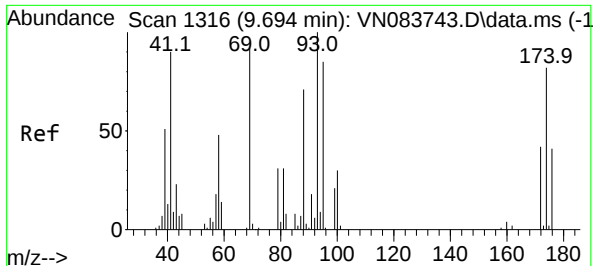
Tgt Ion:130 Resp: 27492

Ion Ratio Lower Upper

130 100

95 103.4 0.0 200.4





#49

1,4-Dioxane

Concen: 4.825 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN084054.D

Acq: 19 Sep 2024 23:18

Instrument :

MSVOA\_N

ClientSampleId :

DUPE03-20240913

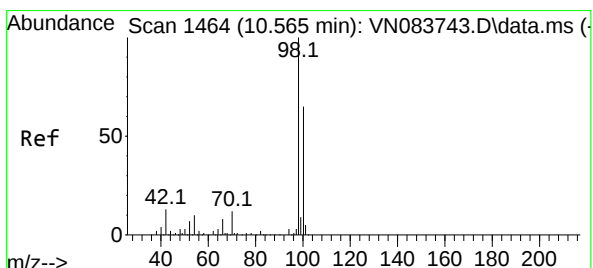
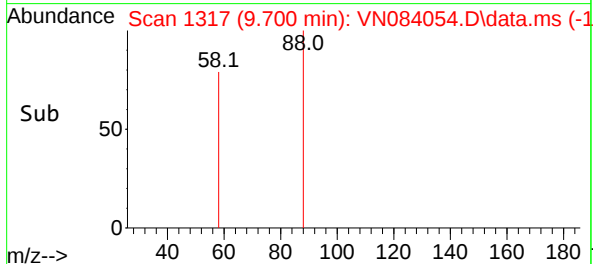
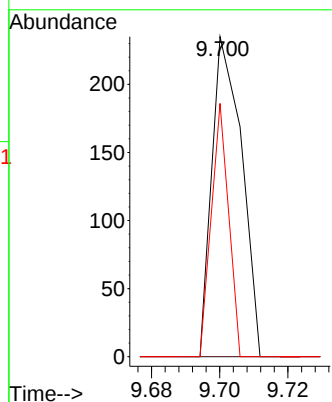
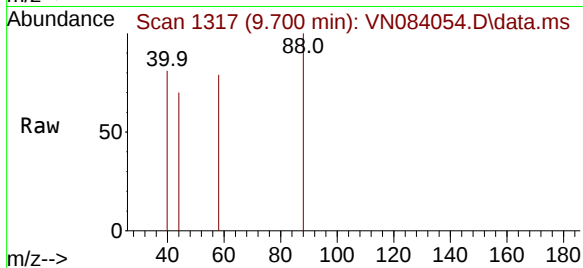
Tgt Ion: 88 Resp: 143

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 46.2 57.1 85.7#



#50

Toluene-d8

Concen: 53.661 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084054.D

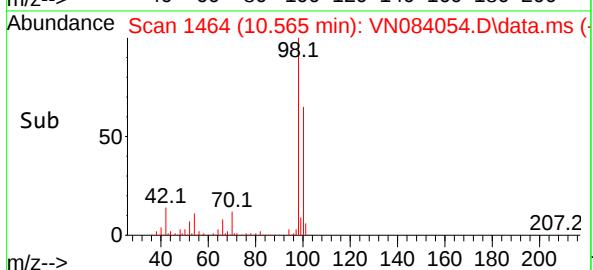
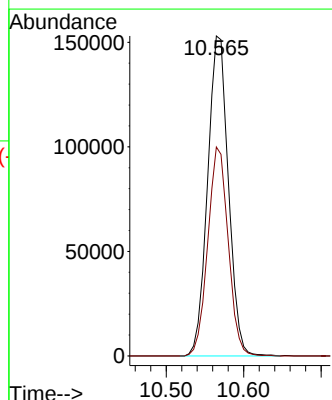
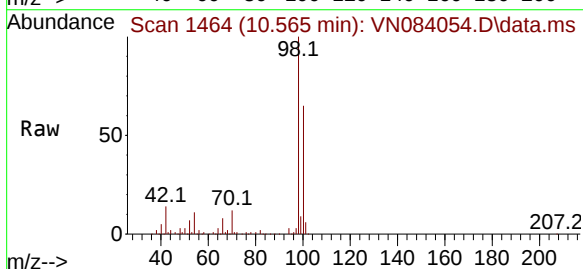
Acq: 19 Sep 2024 23:18

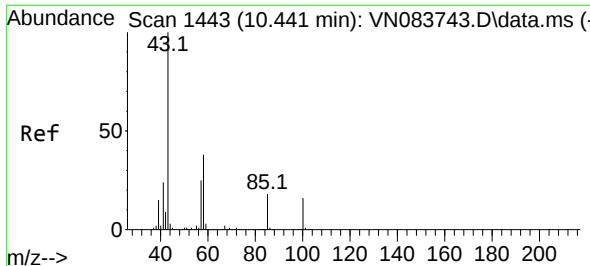
Tgt Ion: 98 Resp: 284521

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0

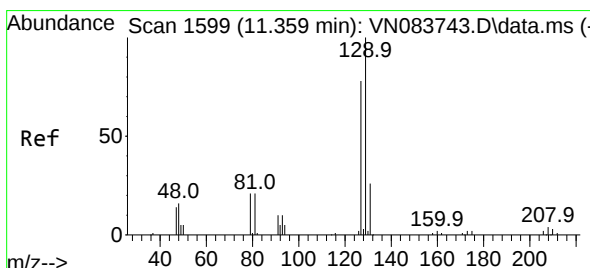
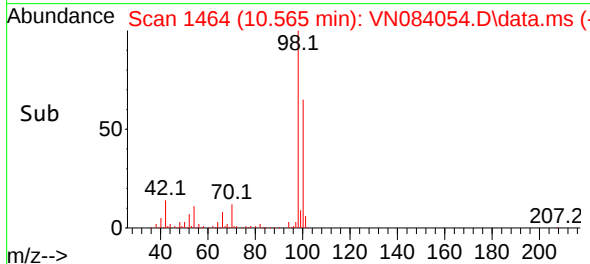
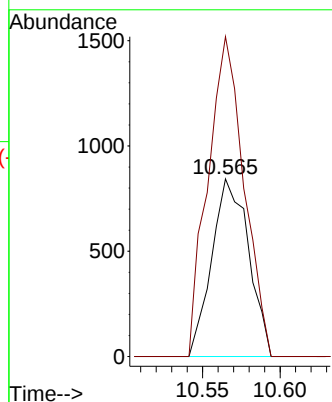
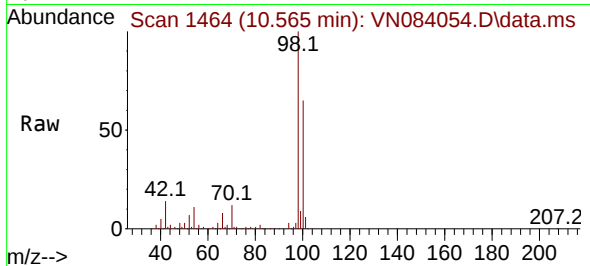




#51  
4-Methyl-2-Pentanone  
Concen: 0.673 ug/l  
RT: 10.565 min Scan# 1443  
Delta R.T. 0.123 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

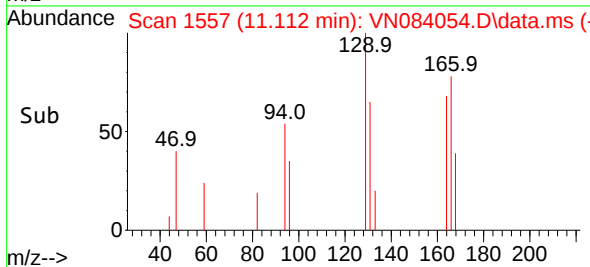
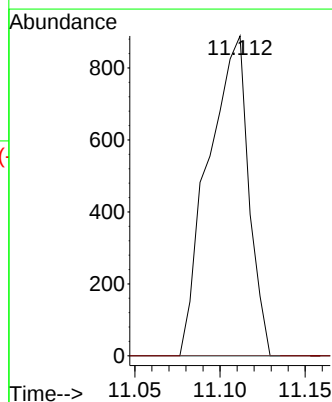
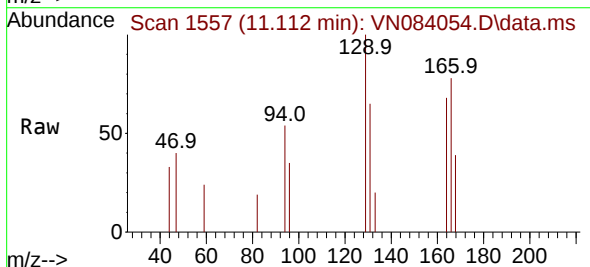
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPE03-20240913

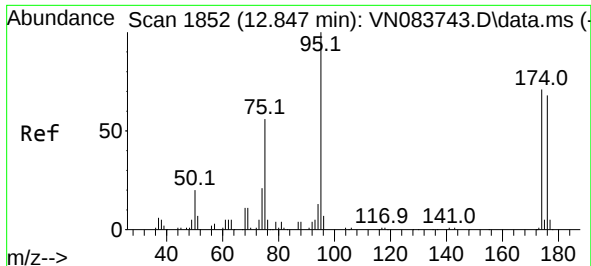
Tgt Ion: 43 Resp: 1392  
Ion Ratio Lower Upper  
43 100  
58 176.6 31.6 47.4#



#60  
Dibromochloromethane  
Concen: 0.823 ug/l  
RT: 11.112 min Scan# 1557  
Delta R.T. -0.247 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

Tgt Ion: 129 Resp: 1462  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 116.9#

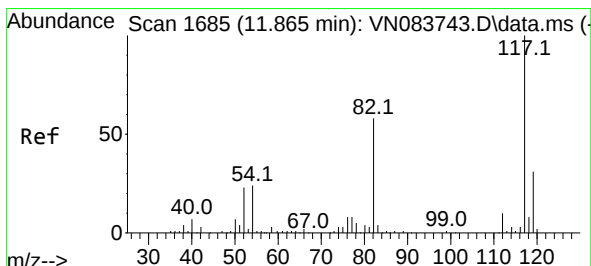
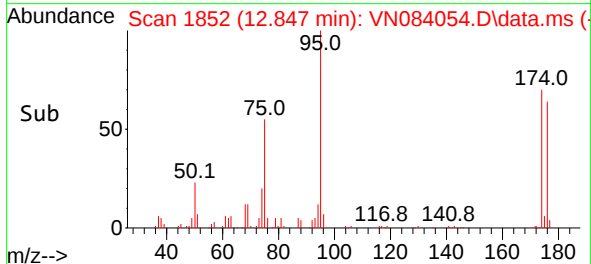
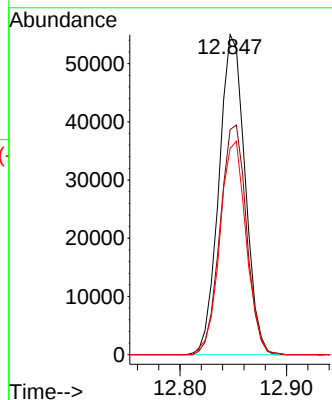
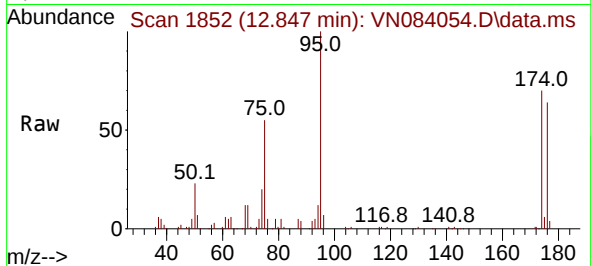




#62  
4-Bromofluorobenzene  
Concen: 42.680 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

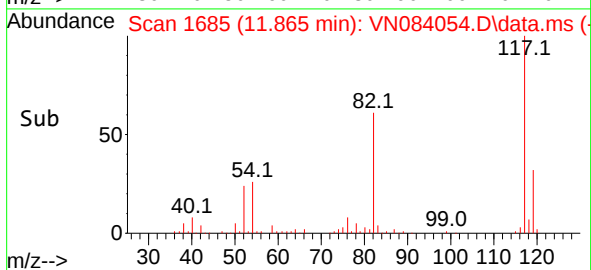
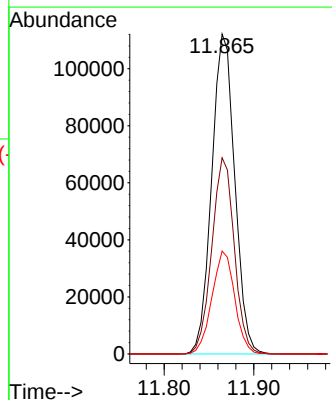
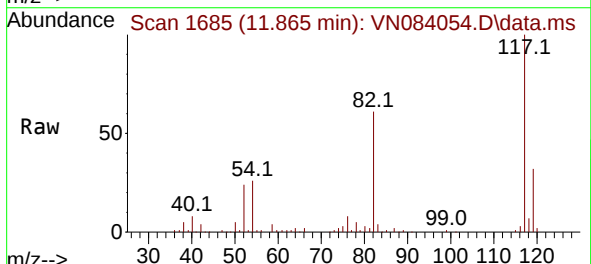
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPE03-20240913

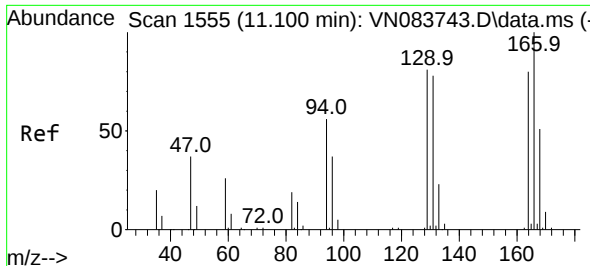
Tgt Ion: 95 Resp: 93365  
Ion Ratio Lower Upper  
95 100  
174 72.7 0.0 139.8  
176 67.7 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

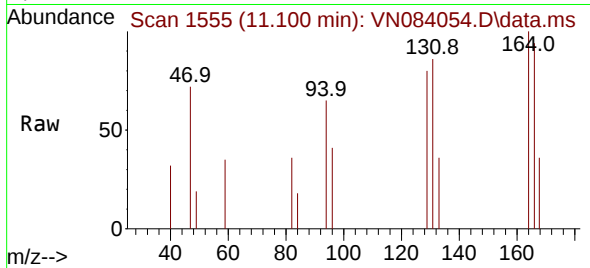
Tgt Ion: 117 Resp: 200028  
Ion Ratio Lower Upper  
117 100  
82 61.3 47.4 71.0  
119 32.1 26.3 39.5



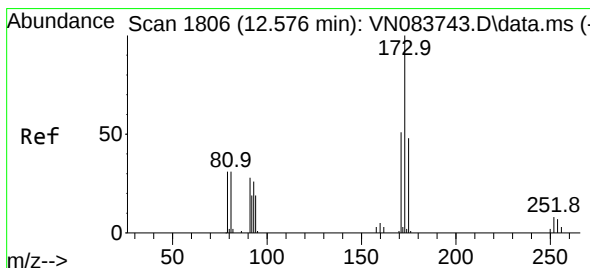
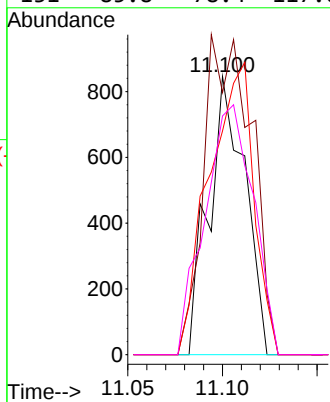
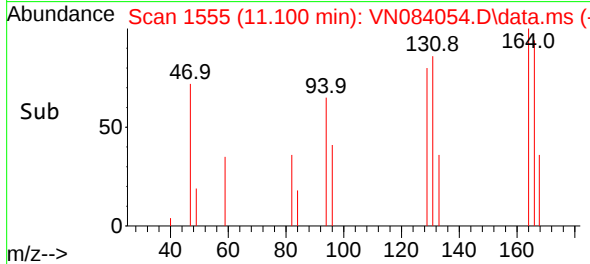


#64  
Tetrachloroethene  
Concen: 0.849 ug/l  
RT: 11.100 min Scan# 111  
Delta R.T. -0.000 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

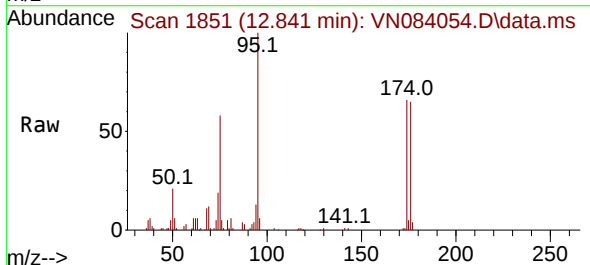
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPE03-20240913



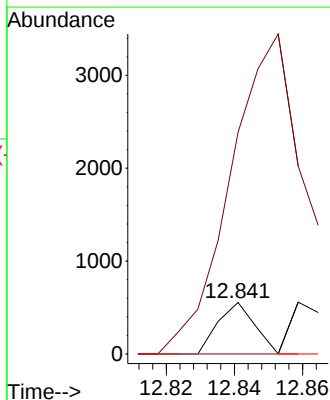
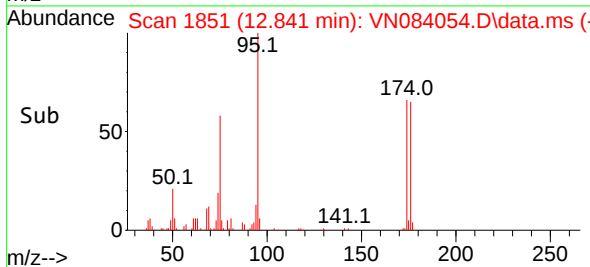
Tgt Ion:164 Resp: 1130  
Ion Ratio Lower Upper  
164 100  
166 94.2 103.7 155.5#  
129 80.4 79.9 119.9  
131 85.8 78.4 117.6

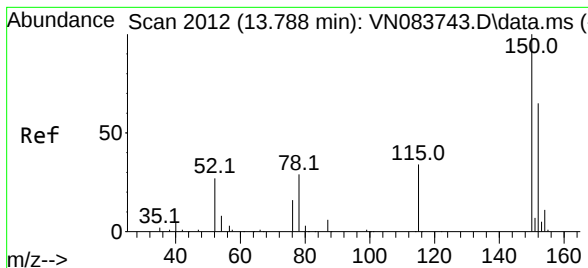


#71  
Bromoform  
Concen: 0.399 ug/l  
RT: 12.841 min Scan# 1851  
Delta R.T. 0.265 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18



Tgt Ion:173 Resp: 414  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.1 72.2#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2012

Delta R.T. 0.006 min

Lab File: VN084054.D

Acq: 19 Sep 2024 23:18

Instrument :

MSVOA\_N

ClientSampleId :

DUPE03-20240913

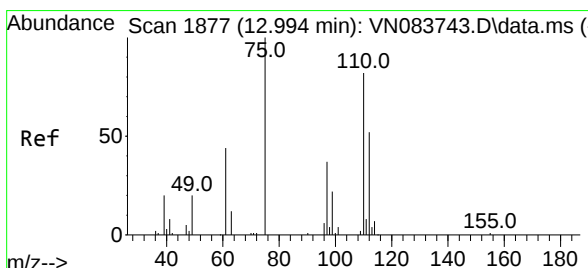
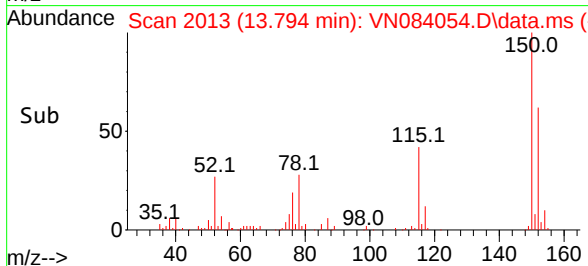
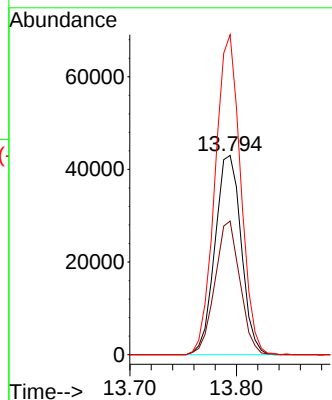
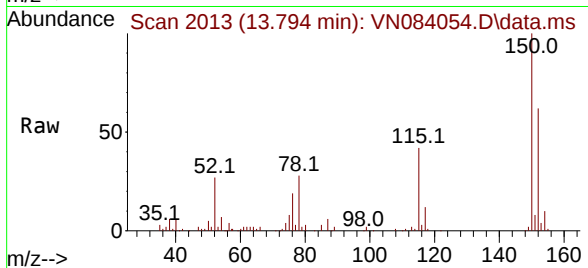
Tgt Ion:152 Resp: 73380

Ion Ratio Lower Upper

152 100

115 64.3 32.2 96.6

150 157.0 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 36.447 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN084054.D

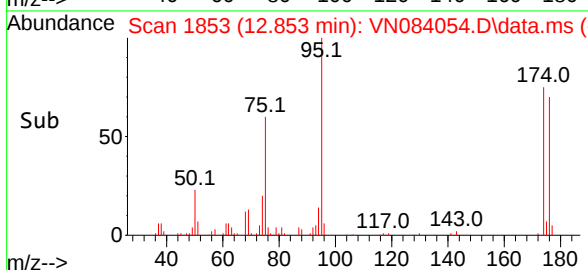
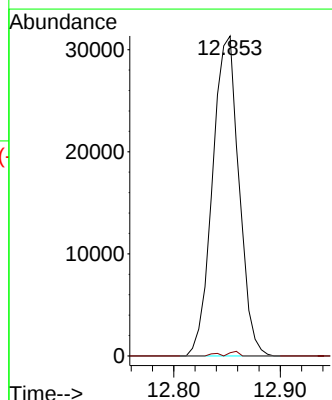
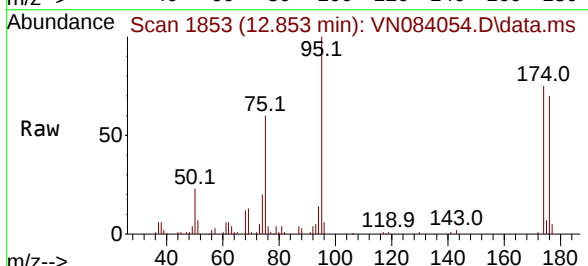
Acq: 19 Sep 2024 23:18

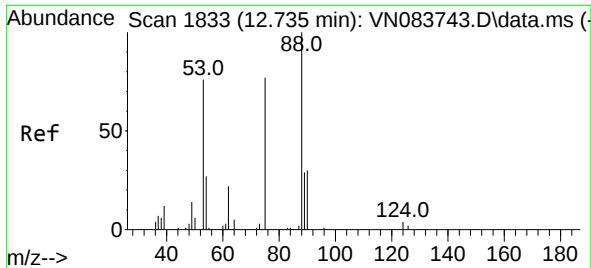
Tgt Ion: 75 Resp: 53966

Ion Ratio Lower Upper

75 100

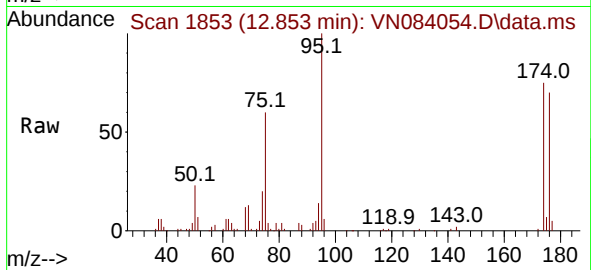
77 0.5 95.2 285.6#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 95.458 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.118 min  
Lab File: VN084054.D  
Acq: 19 Sep 2024 23:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPE03-20240913



| Tgt Ion: | 75    | Resp: | 53966  |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 81.2  | 121.8# |
| 89       | 0.0   | 35.7  | 53.5#  |

