

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110824\  
 Data File : VN084751.D  
 Acq On : 08 Nov 2024 15:44  
 Operator : JC\MD  
 Sample : P4774-06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 08 22:32:29 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

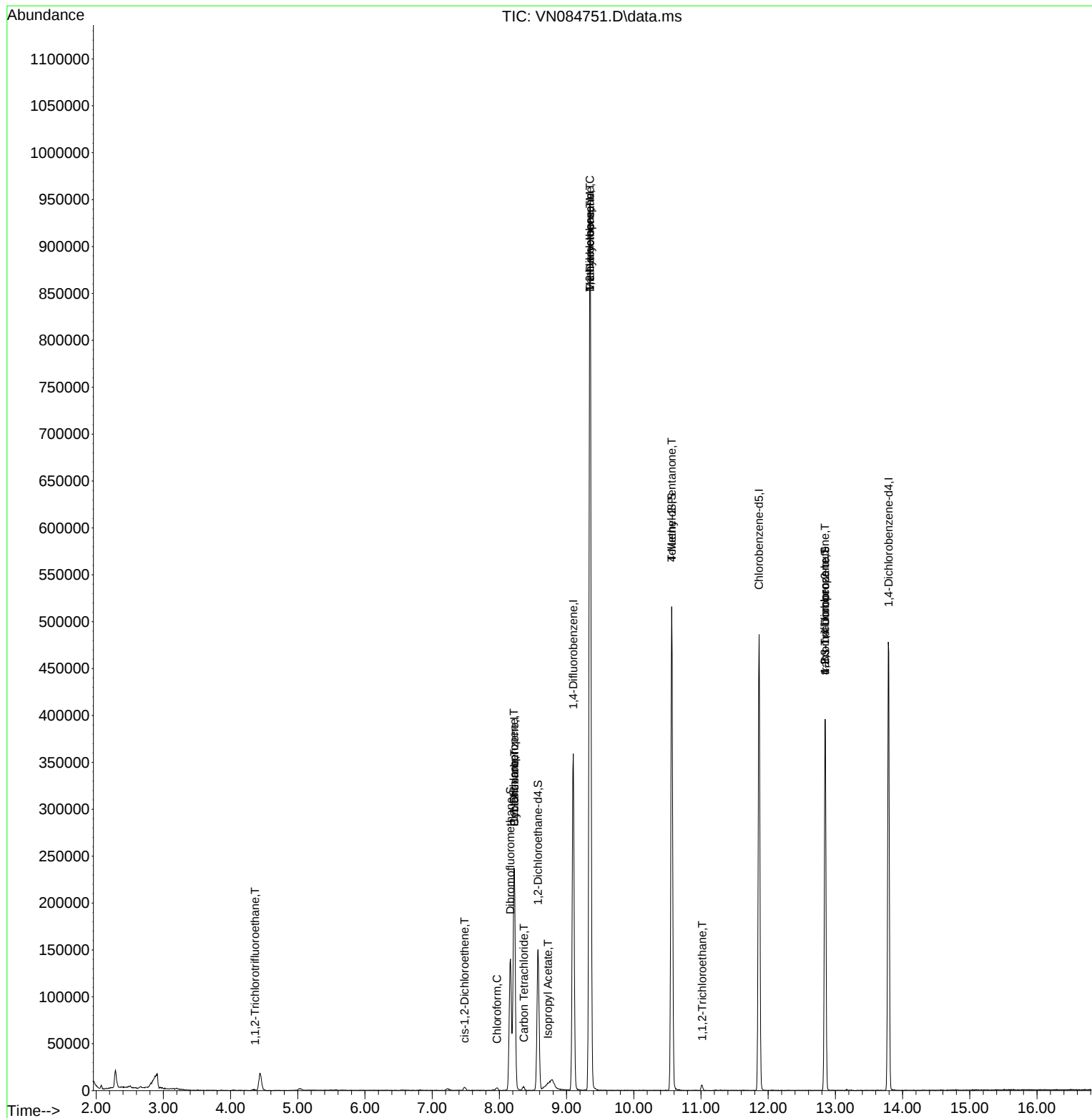
| Compound                      | R.T.   | QIon  | Response | Conc         | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|--------------|--------|----------|
| Internal Standards            |        |       |          |              |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 176262   | 50.000       | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 311946   | 50.000       | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 280107   | 50.000       | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 129789   | 50.000       | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |              |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.576  | 65    | 124577   | 48.934       | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery     | =      | 97.860%  |
| 35) Dibromofluoromethane      | 8.165  | 113   | 102161   | 48.383       | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery     | =      | 96.760%  |
| 50) Toluene-d8                | 10.565 | 98    | 360363   | 46.331       | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery     | =      | 92.660%  |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 138694   | 47.712       | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery     | =      | 95.420%  |
| Target Compounds              |        |       |          |              |        |          |
|                               |        |       |          |              | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 667      | Below Cal    | #      | 41       |
| 6) Chloroethane               | 3.142  | 64    | 496      | Below Cal    | #      | 45       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.365  | 101   | 671      | 0.331 ug/l   | #      | 49       |
| 16) Acetone                   | 4.436  | 43    | 1197     | Below Cal    | #      | 44       |
| 18) Methyl Acetate            | 5.024  | 43    | 2570     | Below Cal    | #      | 86       |
| 27) cis-1,2-Dichloroethene    | 7.482  | 96    | 1841     | 0.765 ug/l   |        | 95       |
| 30) Chloroform                | 7.965  | 83    | 3167     | 0.801 ug/l   |        | 99       |
| 31) Cyclohexane               | 8.224  | 56    | 3797     | 1.080 ug/l   | #      | 17       |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 14564    | 4.973 ug/l   | #      | 50       |
| 38) Carbon Tetrachloride      | 8.365  | 117   | 2794     | 0.854 ug/l   | #      | 81       |
| 39) Methylcyclohexane         | 9.347  | 83    | 4396     | 1.476 ug/l   | #      | 1        |
| 43) Isopropyl Acetate         | 8.724  | 43    | 10112    | 1.116 ug/l   | #      | 56       |
| 44) Trichloroethene           | 9.347  | 130   | 354834   | 163.602 ug/l |        | 98       |
| 45) 1,2-Dichloropropane       | 9.347  | 63    | 1125     | 0.510 ug/l   | #      | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43    | 1591     | 0.628 ug/l   | #      | 1        |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97    | 2221     | 1.072 ug/l   |        | 96       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 71289    | 27.478 ug/l  | #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 71289    | 65.188 ug/l  | #      | 11       |
| 88) 1,4-Dichlorobenzene       | 13.806 | 146   | 126      | Below Cal    | #      | 1        |

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

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Quant Time: Nov 08 22:32:29 2024  
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Quant Title : SW846 8260  
QLast Update : Thu Oct 31 18:45:38 2024  
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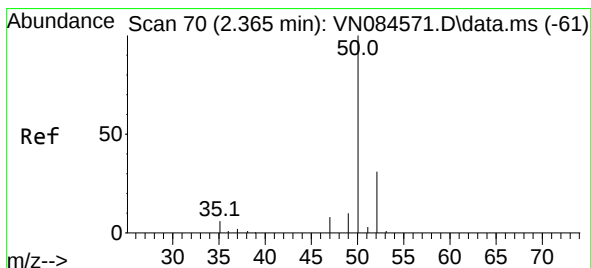
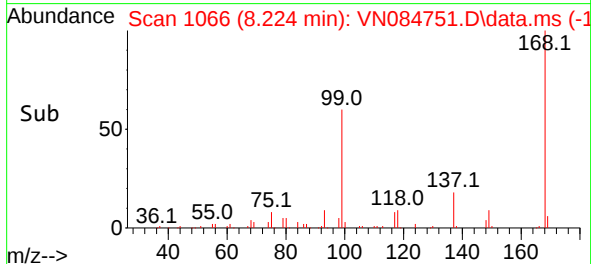
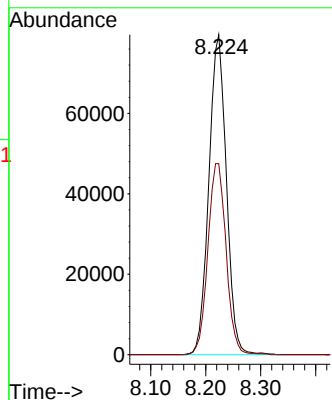
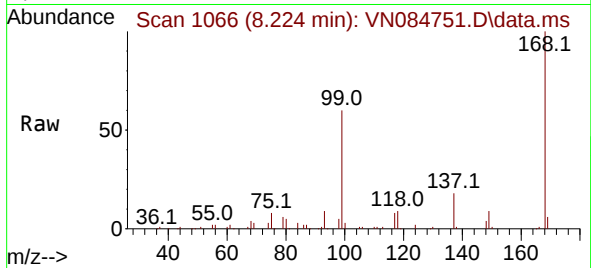




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

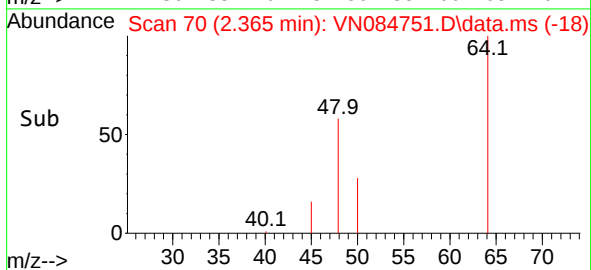
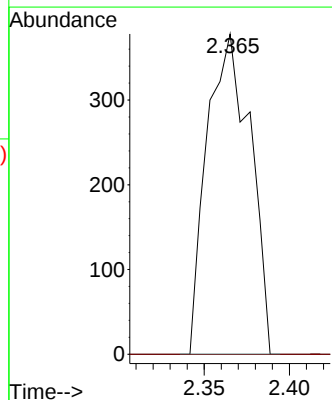
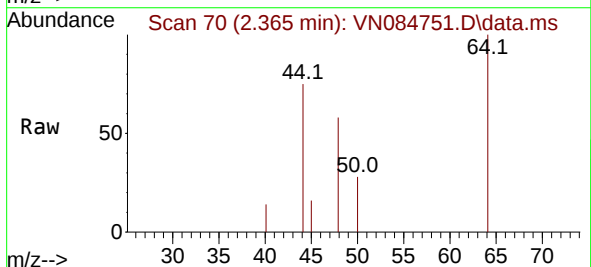
Instrument :  
MSVOA\_N  
ClientSampleId :

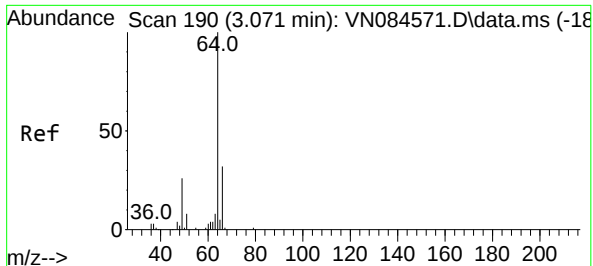
Tgt Ion:168 Resp: 176262  
Ion Ratio Lower Upper  
168 100  
99 59.7 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

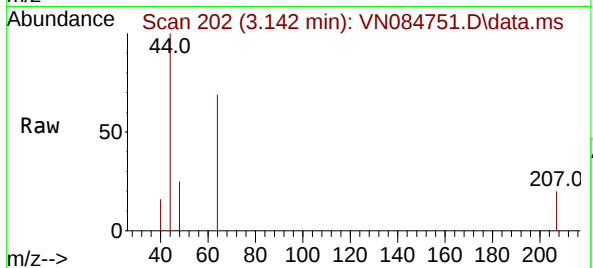
Tgt Ion: 50 Resp: 667  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#



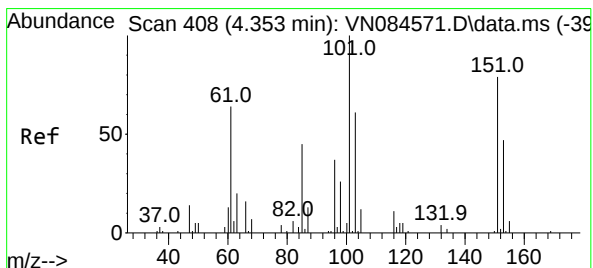
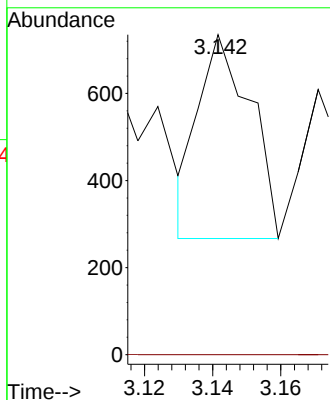
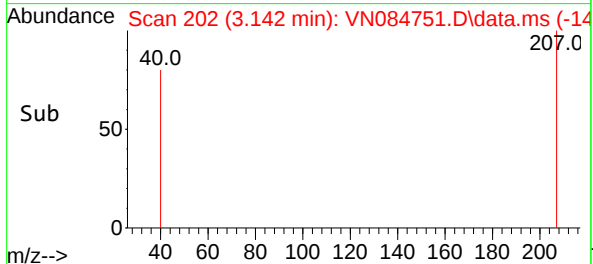


#6  
Chloroethane  
Concen: Below Cal  
RT: 3.142 min Scan# 20  
Delta R.T. 0.024 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

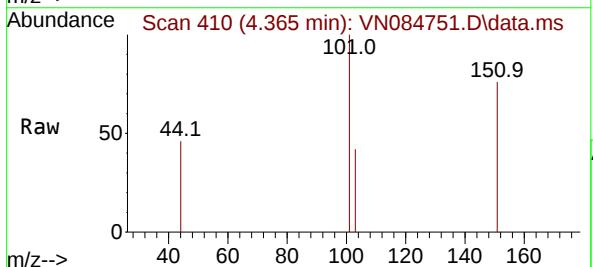
Instrument :  
MSVOA\_N  
ClientSampleId :



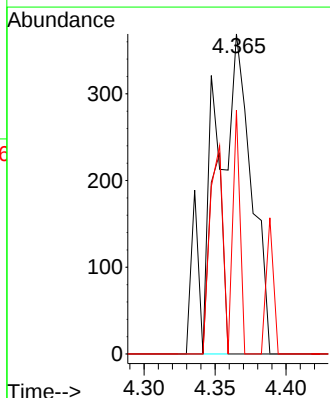
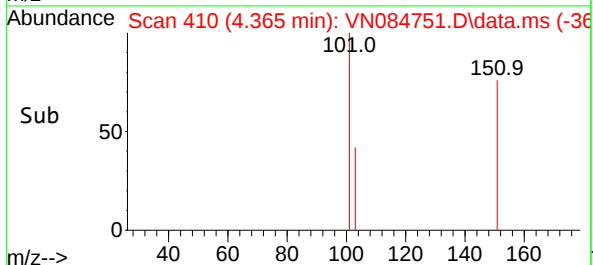
Tgt Ion: 64 Resp: 496  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#

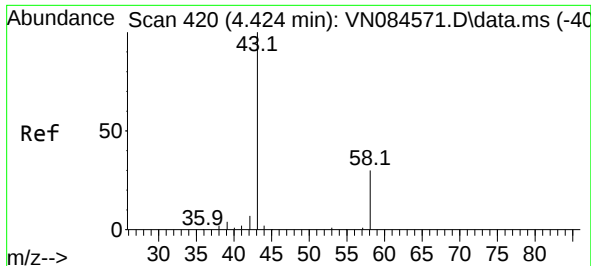


#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.331 ug/l  
RT: 4.365 min Scan# 410  
Delta R.T. -0.006 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44



Tgt Ion: 101 Resp: 671  
Ion Ratio Lower Upper  
101 100  
85 22.5 36.2 54.4#  
151 22.8 59.3 88.9#

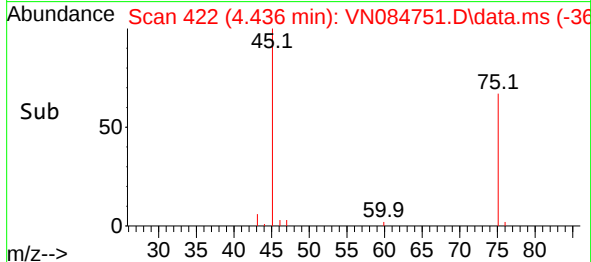
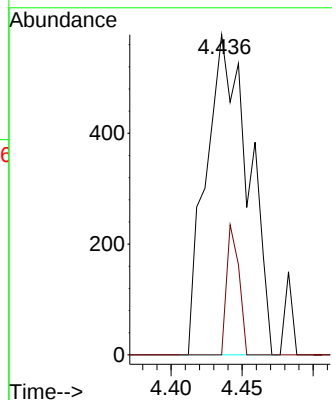
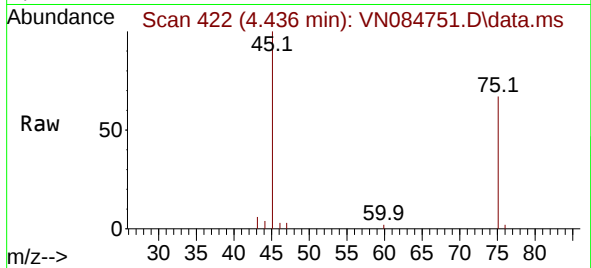




#16  
Acetone  
Concen: Below Cal  
RT: 4.436 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

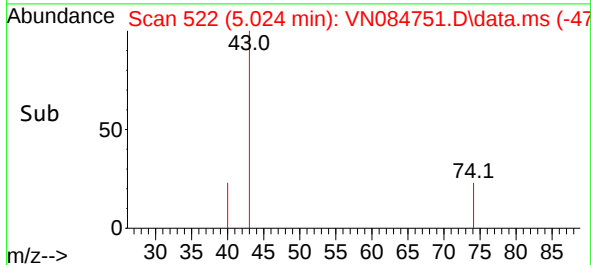
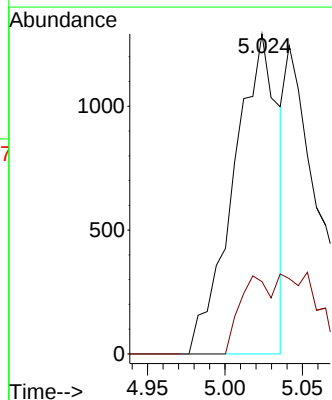
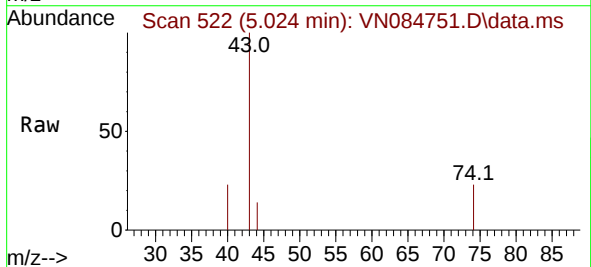
Instrument :  
MSVOA\_N  
ClientSampleId :

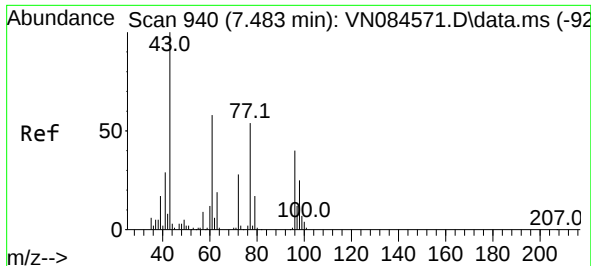
Tgt Ion: 43 Resp: 1197  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.4 36.6#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

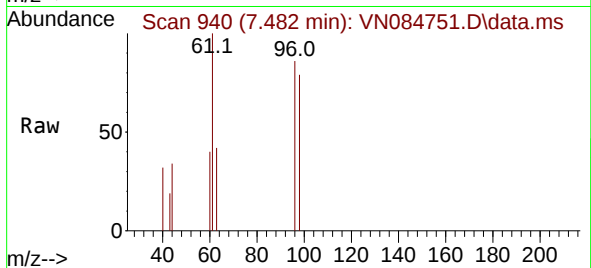
Tgt Ion: 43 Resp: 2570  
Ion Ratio Lower Upper  
43 100  
74 16.8 19.2 28.8#



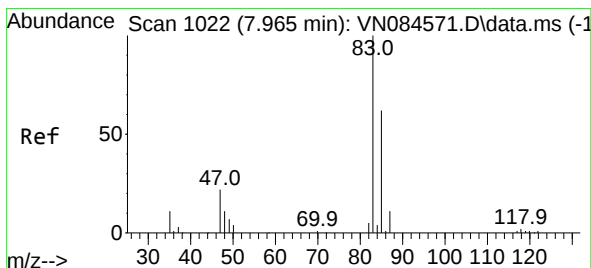
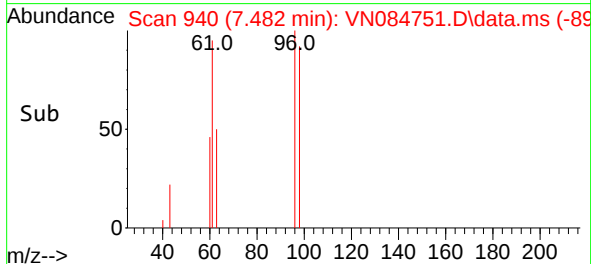
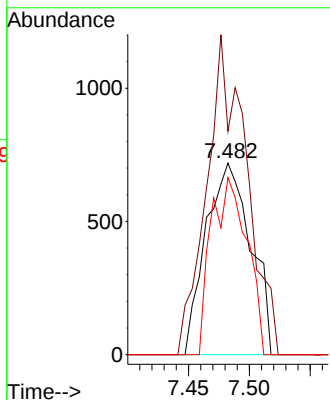


#27  
 cis-1,2-Dichloroethene  
 Concen: 0.765 ug/l  
 RT: 7.482 min Scan# 940  
 Delta R.T. -0.006 min  
 Lab File: VN084751.D  
 Acq: 08 Nov 2024 15:44

Instrument :  
 MSVOA\_N  
 ClientSampleId :

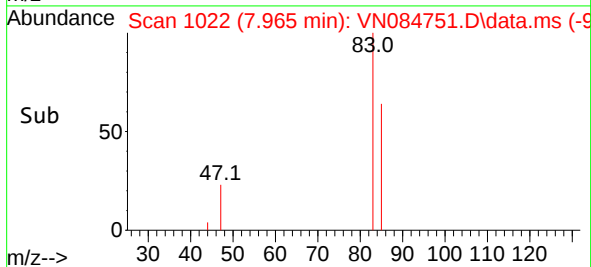
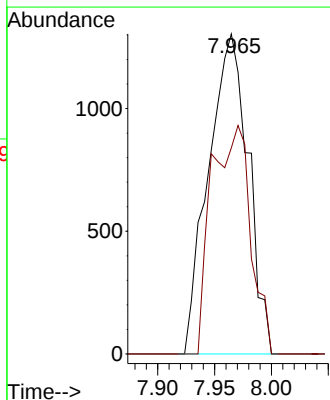
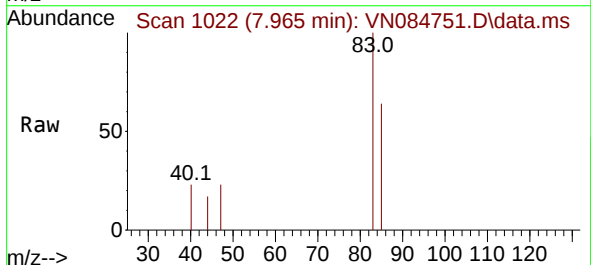


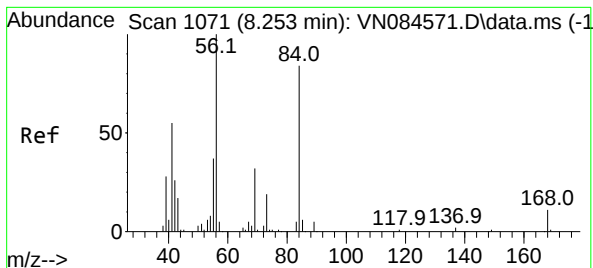
|             |                 |
|-------------|-----------------|
| Tgt Ion: 96 | Resp: 1841      |
| Ion Ratio   | Lower Upper     |
| 96          | 100             |
| 61          | 148.3 0.0 301.8 |
| 98          | 74.0 0.0 128.2  |



#30  
 Chloroform  
 Concen: 0.801 ug/l  
 RT: 7.965 min Scan# 1022  
 Delta R.T. -0.000 min  
 Lab File: VN084751.D  
 Acq: 08 Nov 2024 15:44

|             |                |
|-------------|----------------|
| Tgt Ion: 83 | Resp: 3167     |
| Ion Ratio   | Lower Upper    |
| 83          | 100            |
| 85          | 64.4 51.0 76.4 |





#31

Cyclohexane

Concen: 1.080 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

Instrument :

MSVOA\_N

ClientSampleId :

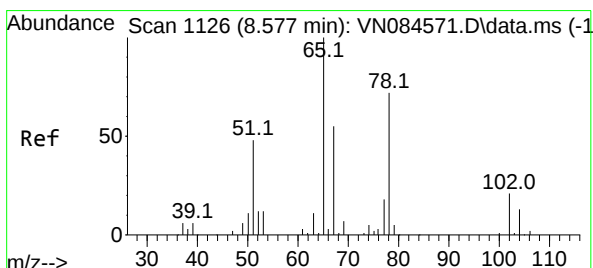
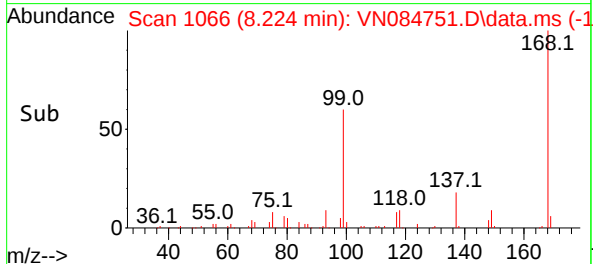
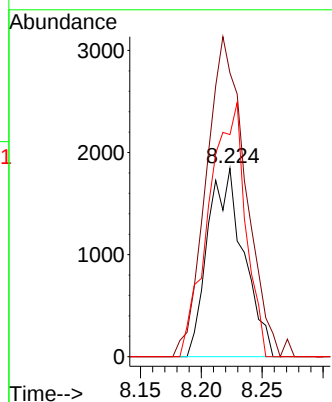
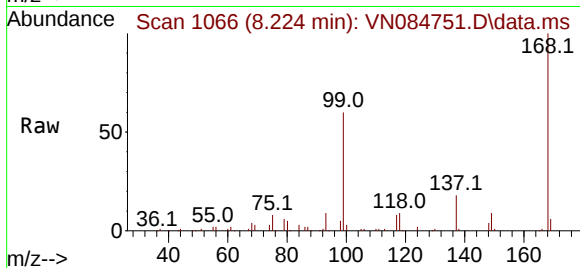
Tgt Ion: 56 Resp: 3797

Ion Ratio Lower Upper

56 100

69 150.6 23.8 35.6#

84 117.9 68.8 103.2#



#33

1,2-Dichloroethane-d4

Concen: 48.934 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.001 min

Lab File: VN084751.D

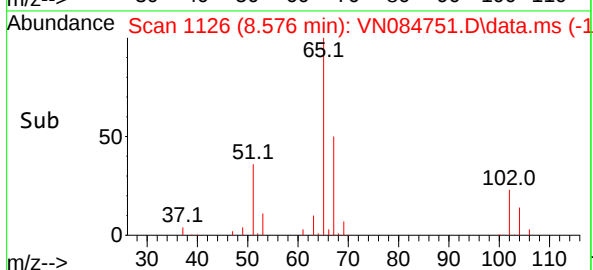
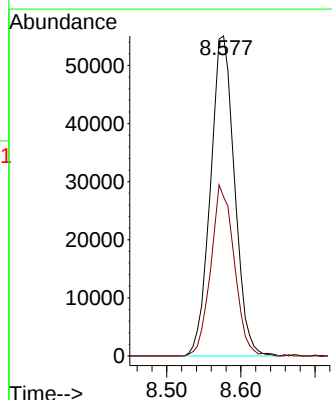
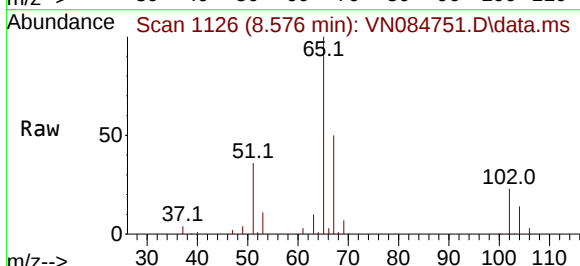
Acq: 08 Nov 2024 15:44

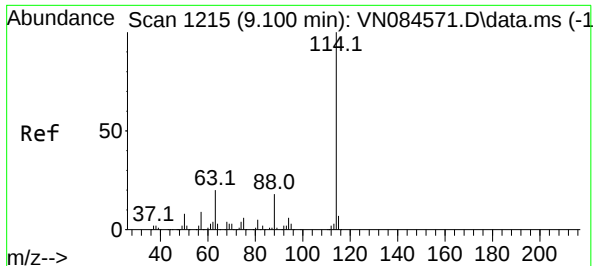
Tgt Ion: 65 Resp: 124577

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

Instrument :

MSVOA\_N

ClientSampleId :

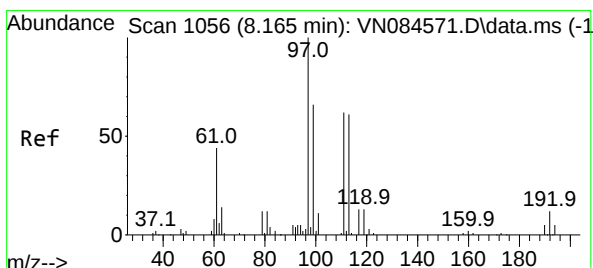
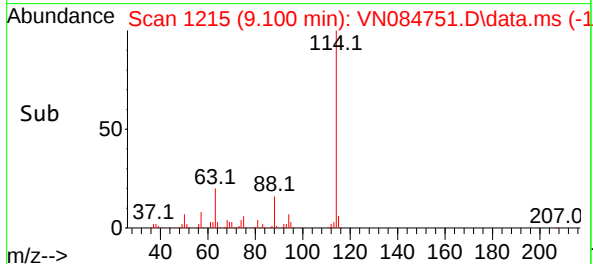
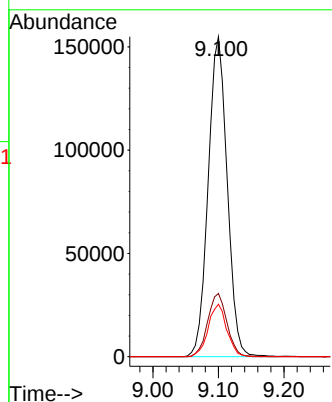
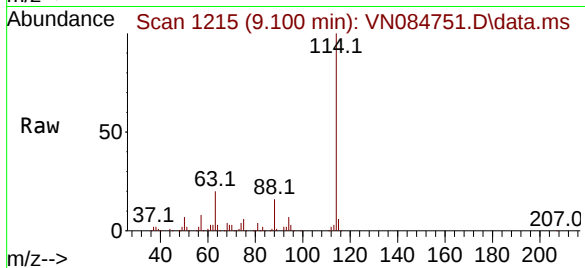
Tgt Ion:114 Resp: 311946

Ion Ratio Lower Upper

114 100

63 19.7 0.0 43.8

88 16.4 0.0 31.6



#35

Dibromofluoromethane

Concen: 48.383 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

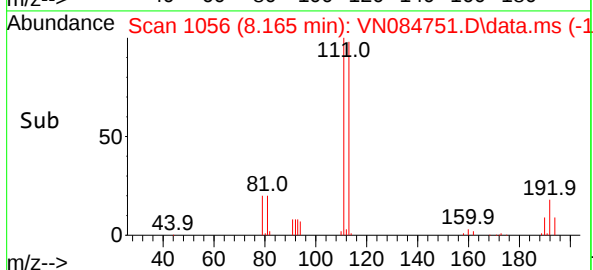
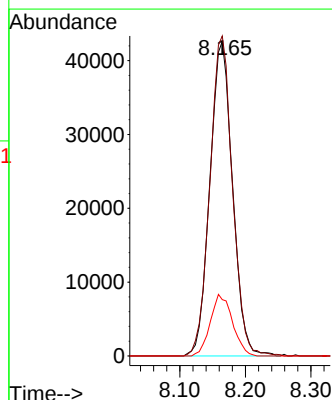
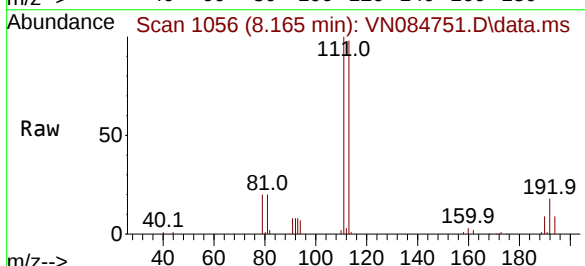
Tgt Ion:113 Resp: 102161

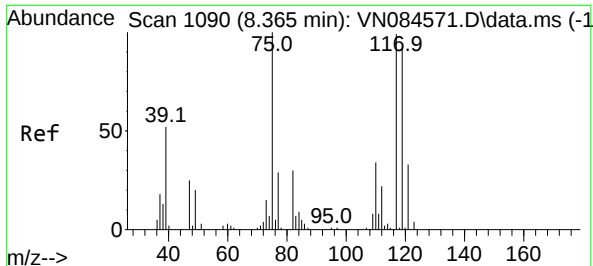
Ion Ratio Lower Upper

113 100

111 101.4 83.3 124.9

192 19.1 13.5 20.3





#36

1,1-Dichloropropene

Concen: 4.973 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

Instrument :

MSVOA\_N

ClientSampleId :

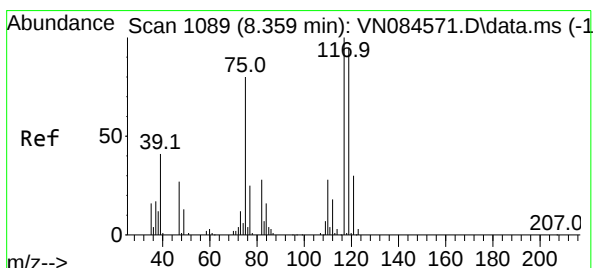
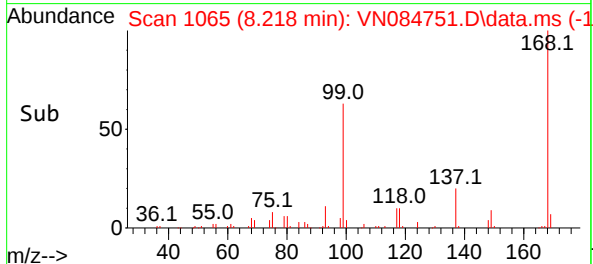
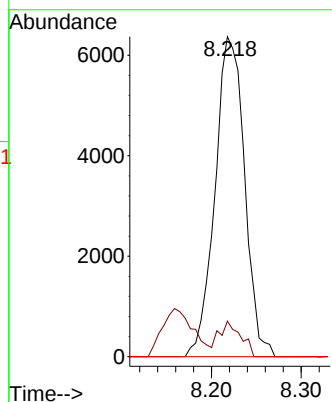
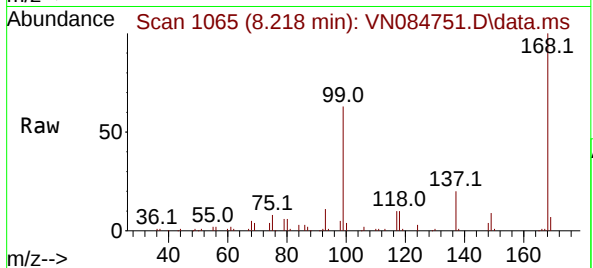
Tgt Ion: 75 Resp: 14564

Ion Ratio Lower Upper

75 100

110 8.1 16.9 50.7#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 0.854 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

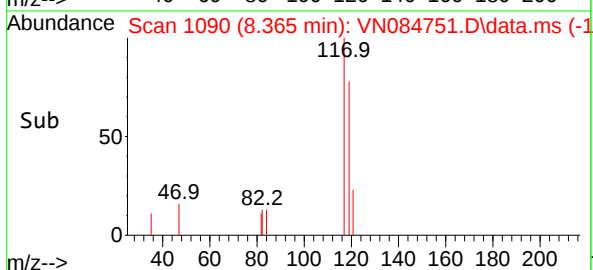
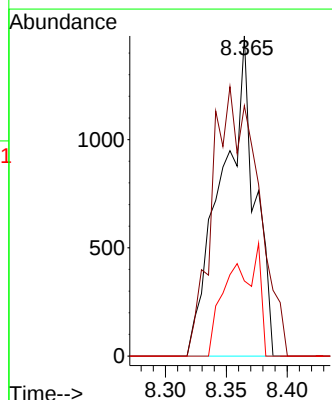
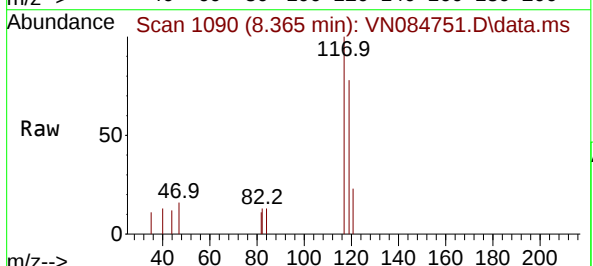
Tgt Ion: 117 Resp: 2794

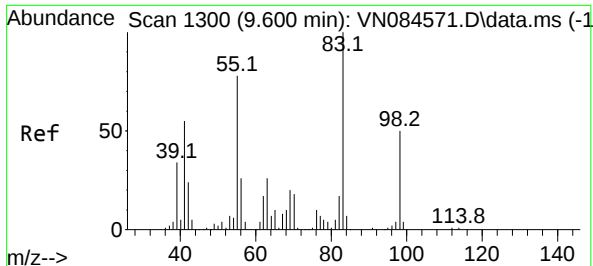
Ion Ratio Lower Upper

117 100

119 78.2 78.7 118.1#

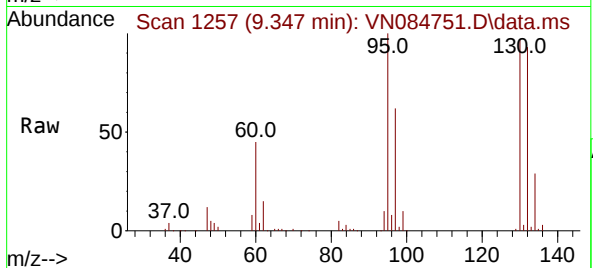
121 23.5 24.4 36.6#



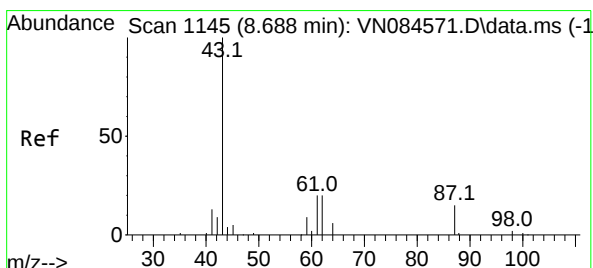
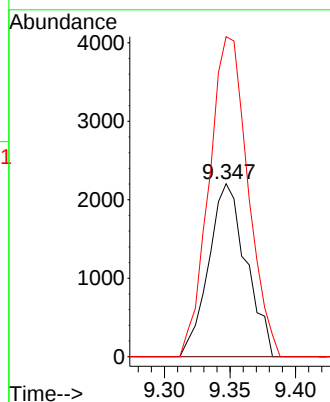
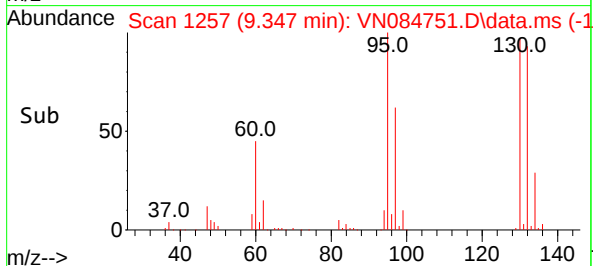


#39  
Methylcyclohexane  
Concen: 1.476 ug/l  
RT: 9.347 min Scan# 1151  
Delta R.T. -0.253 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

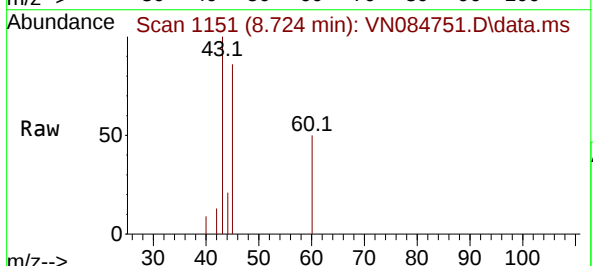
Instrument :  
MSVOA\_N  
ClientSampleId :



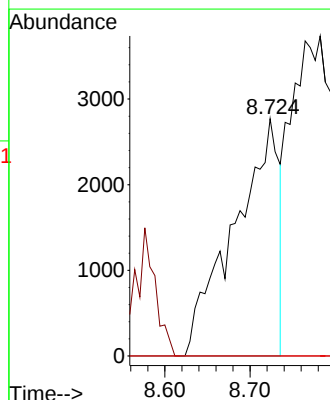
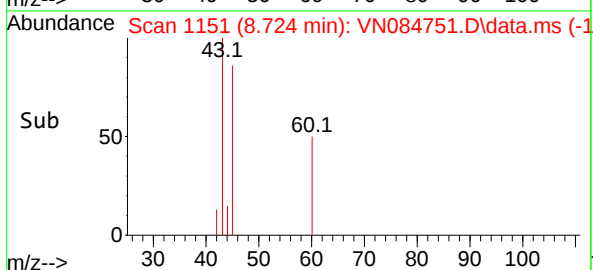
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 4396  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 0.0   | 62.8  | 94.2# |
| 98       | 184.9 | 38.8  | 58.2# |

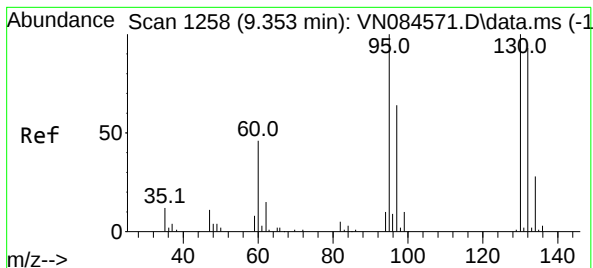


#43  
Isopropyl Acetate  
Concen: 1.116 ug/l  
RT: 8.724 min Scan# 1151  
Delta R.T. 0.036 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 10112 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 20.4  | 30.6# |
| 87       | 0.0   | 10.3  | 15.5# |





#44

Trichloroethene

Concen: 163.602 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

Instrument :

MSVOA\_N

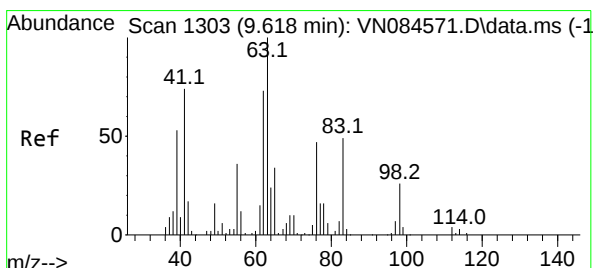
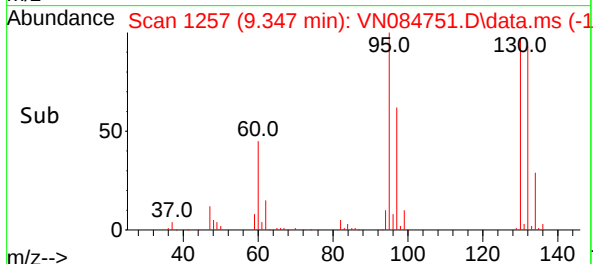
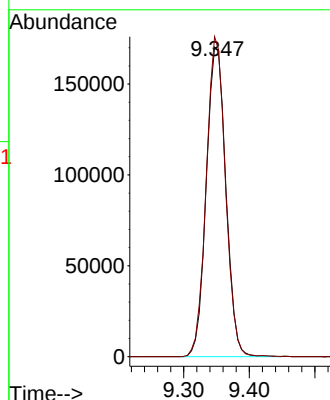
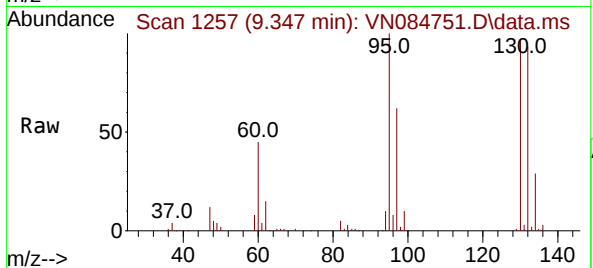
ClientSampleId :

Tgt Ion:130 Resp: 354834

Ion Ratio Lower Upper

130 100

95 103.3 0.0 203.0



#45

1,2-Dichloropropane

Concen: 0.510 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.271 min

Lab File: VN084751.D

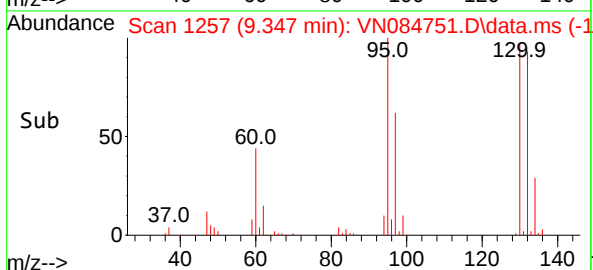
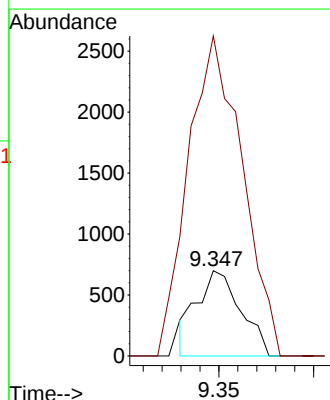
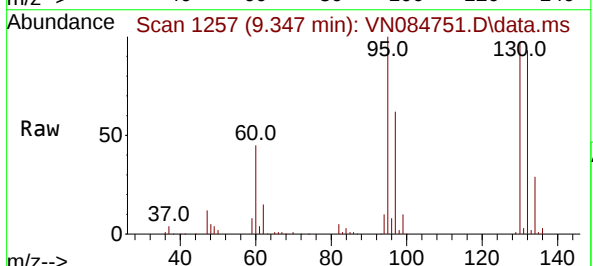
Acq: 08 Nov 2024 15:44

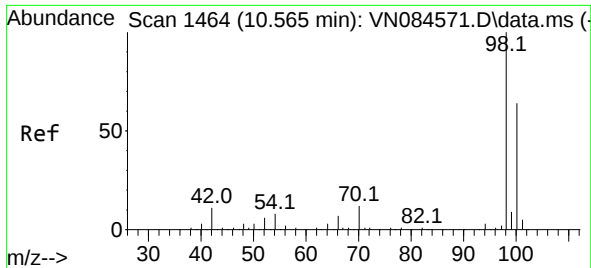
Tgt Ion: 63 Resp: 1125

Ion Ratio Lower Upper

63 100

65 375.5 24.6 37.0#

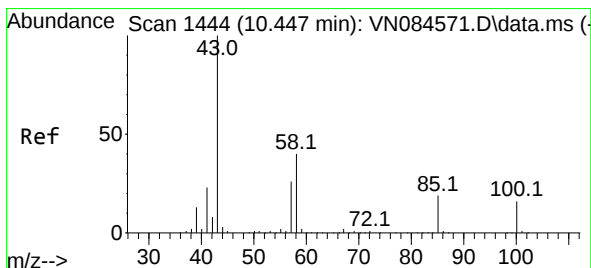
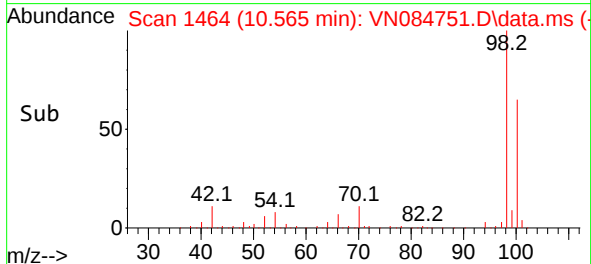
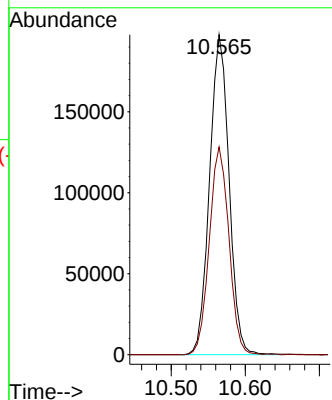
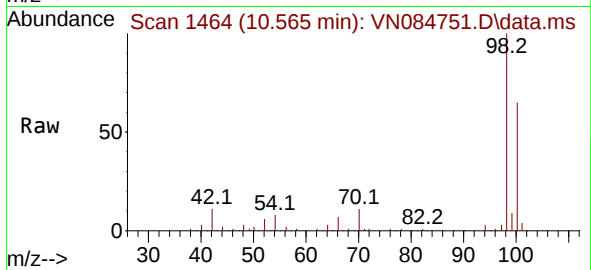




#50  
Toluene-d8  
Concen: 46.331 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

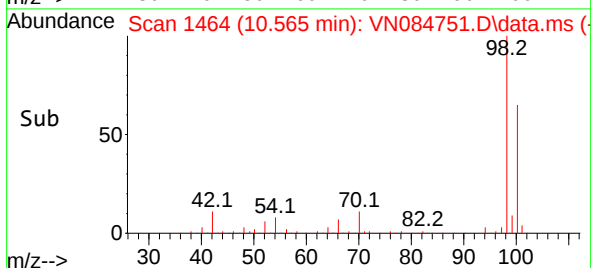
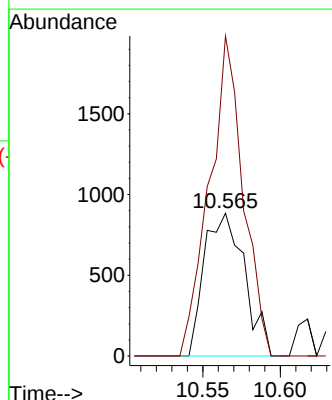
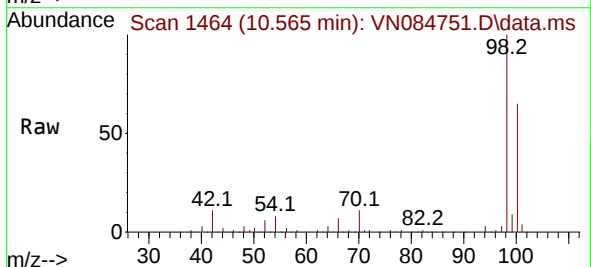
Instrument :  
MSVOA\_N  
ClientSampleId :

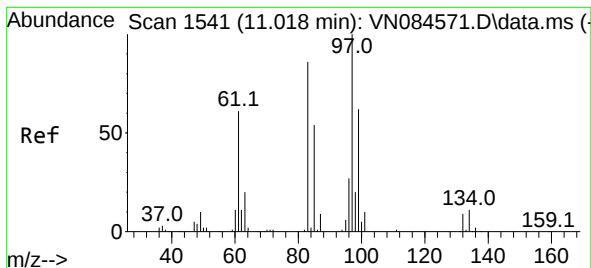
Tgt Ion: 98 Resp: 360363  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.7 79.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.628 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.123 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion: 43 Resp: 1591  
Ion Ratio Lower Upper  
43 100  
58 189.0 31.6 47.4#



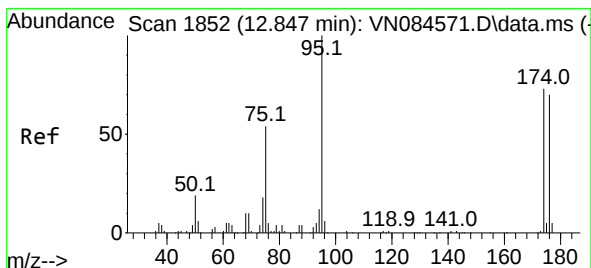
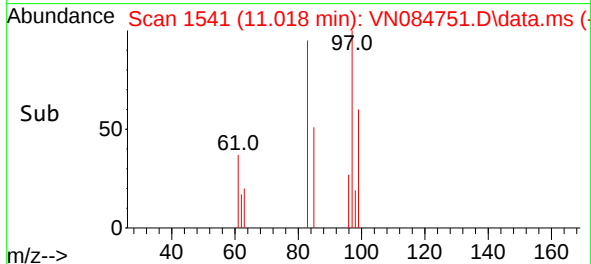
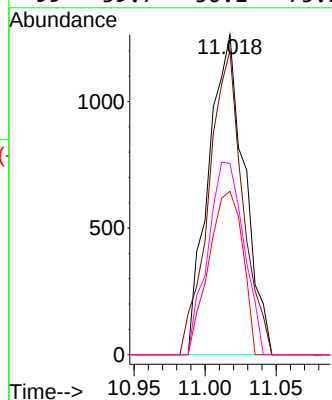
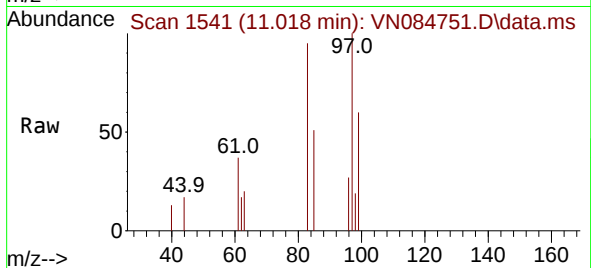


#55  
1,1,2-Trichloroethane  
Concen: 1.072 ug/l  
RT: 11.018 min Scan# 1541  
Delta R.T. 0.006 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 97 Resp: 2221

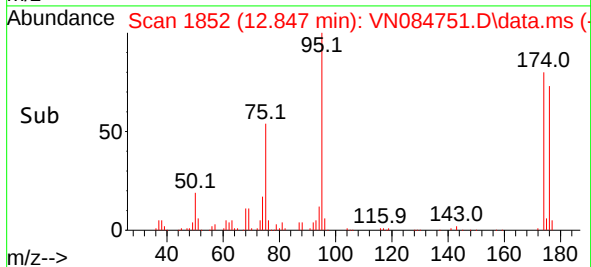
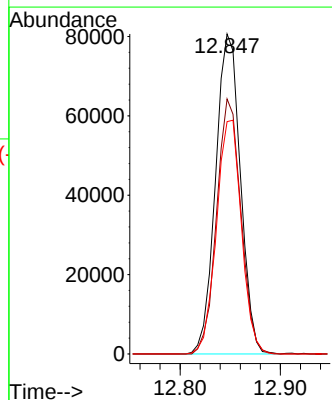
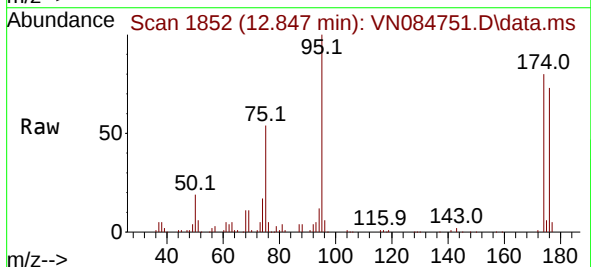
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 95.0  | 71.0  | 106.4 |
| 85  | 51.0  | 41.7  | 62.5  |
| 99  | 59.7  | 50.1  | 75.1  |

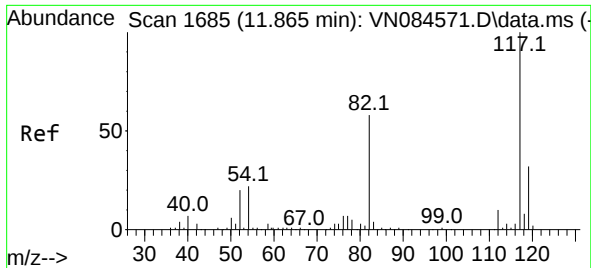


#62  
4-Bromofluorobenzene  
Concen: 47.712 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion: 95 Resp: 138694

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 77.9  | 0.0   | 145.2 |
| 176 | 73.4  | 0.0   | 140.0 |

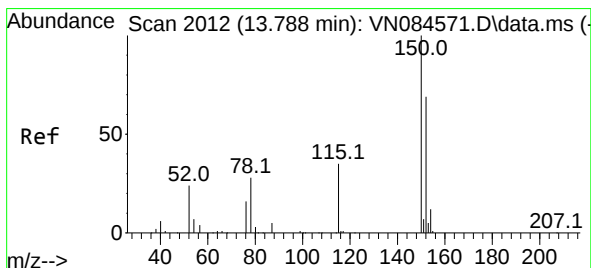
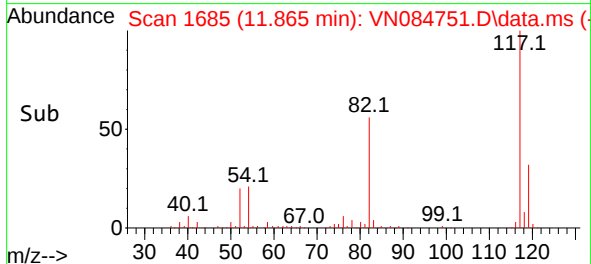
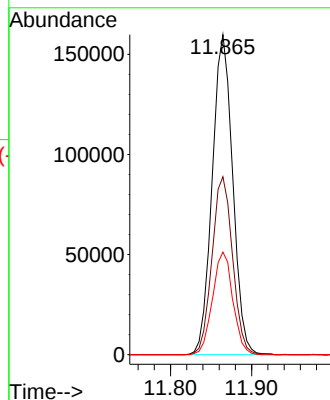
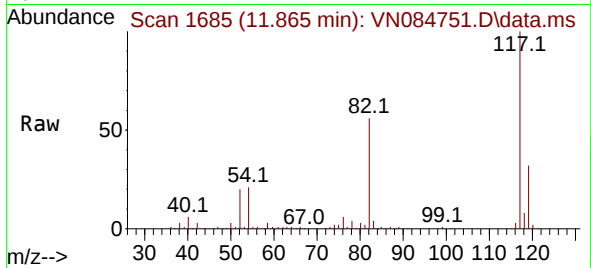




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

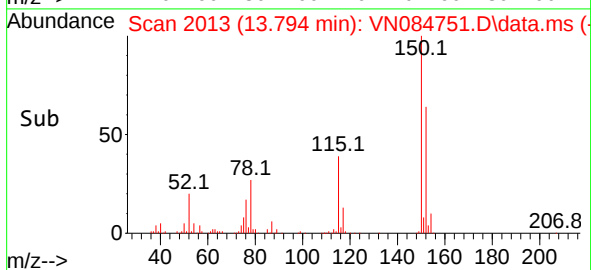
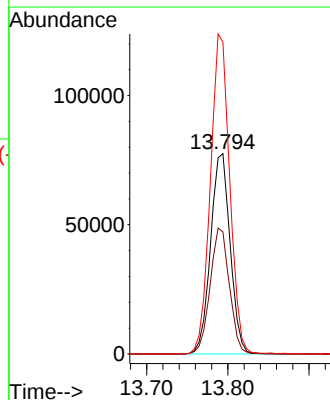
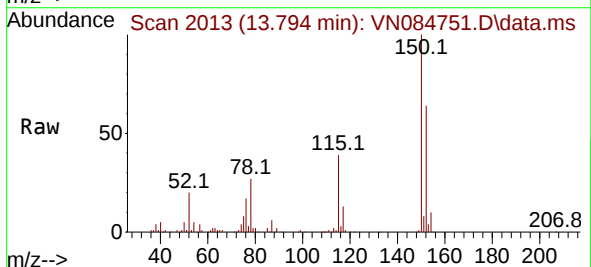
Instrument :  
MSVOA\_N  
ClientSampleId :

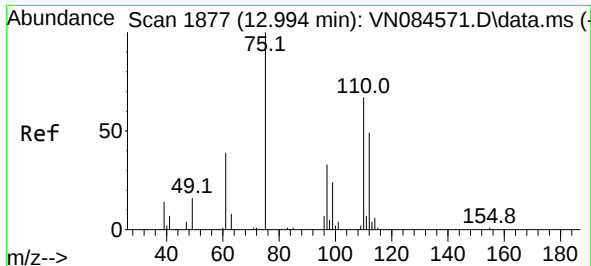
Tgt Ion:117 Resp: 280107  
Ion Ratio Lower Upper  
117 100  
82 55.6 47.2 70.8  
119 32.1 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. 0.006 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion:152 Resp: 129789  
Ion Ratio Lower Upper  
152 100  
115 61.9 31.3 93.9  
150 157.4 0.0 349.8

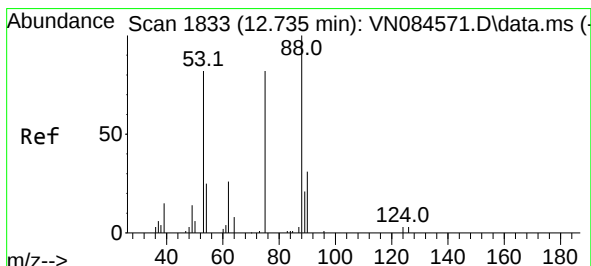
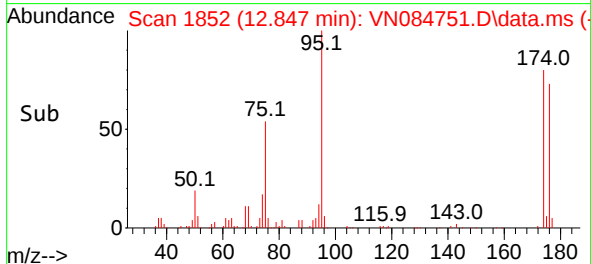
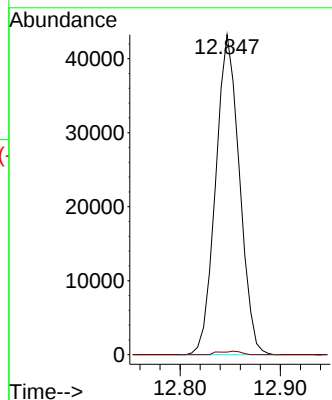
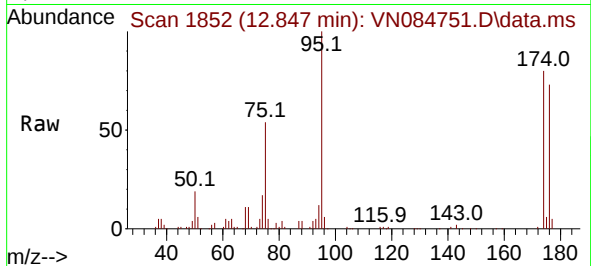




#76  
1,2,3-Trichloropropane  
Concen: 27.478 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

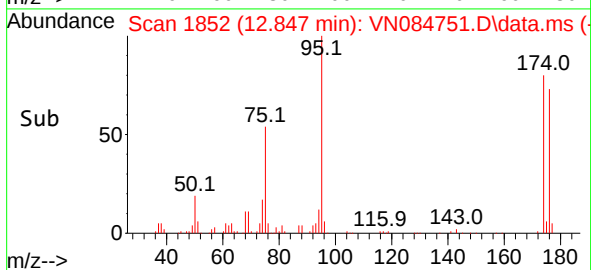
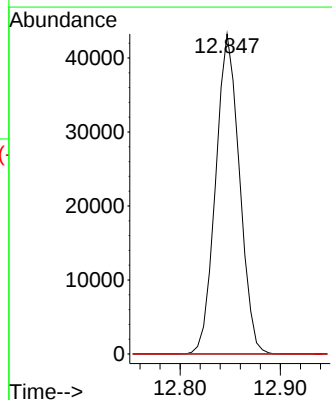
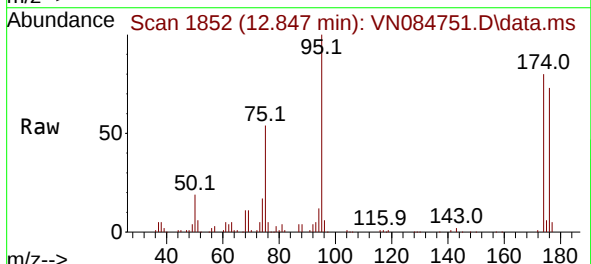
Instrument :  
MSVOA\_N  
ClientSampleId :

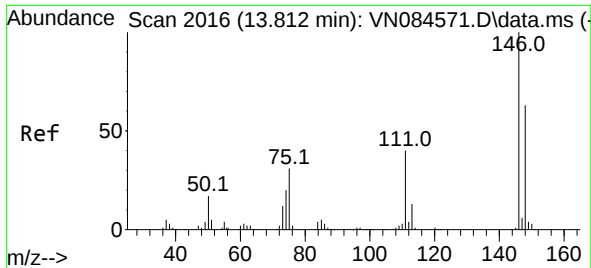
Tgt Ion: 75 Resp: 71289  
Ion Ratio Lower Upper  
75 100  
77 1.0 96.9 290.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.188 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN084751.D  
Acq: 08 Nov 2024 15:44

Tgt Ion: 75 Resp: 71289  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 35.5 53.3#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.806 min Scan# 20

Delta R.T. -0.006 min

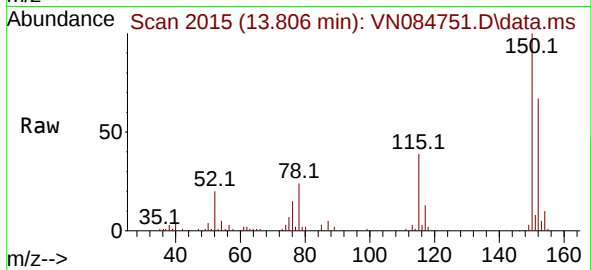
Lab File: VN084751.D

Acq: 08 Nov 2024 15:44

Instrument :

MSVOA\_N

ClientSampleId :



|          |        |       |       |
|----------|--------|-------|-------|
| Tgt Ion: | 146    | Resp: | 126   |
| Ion      | Ratio  | Lower | Upper |
| 146      | 100    |       |       |
| 111      | 1550.0 | 21.2  | 63.6# |
| 148      | 401.6  | 31.9  | 95.9# |

