

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092424\  
 Data File : VN084143.D  
 Acq On : 24 Sep 2024 18:43  
 Operator : JC\MD  
 Sample : P4116-19  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 25 01:39:14 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

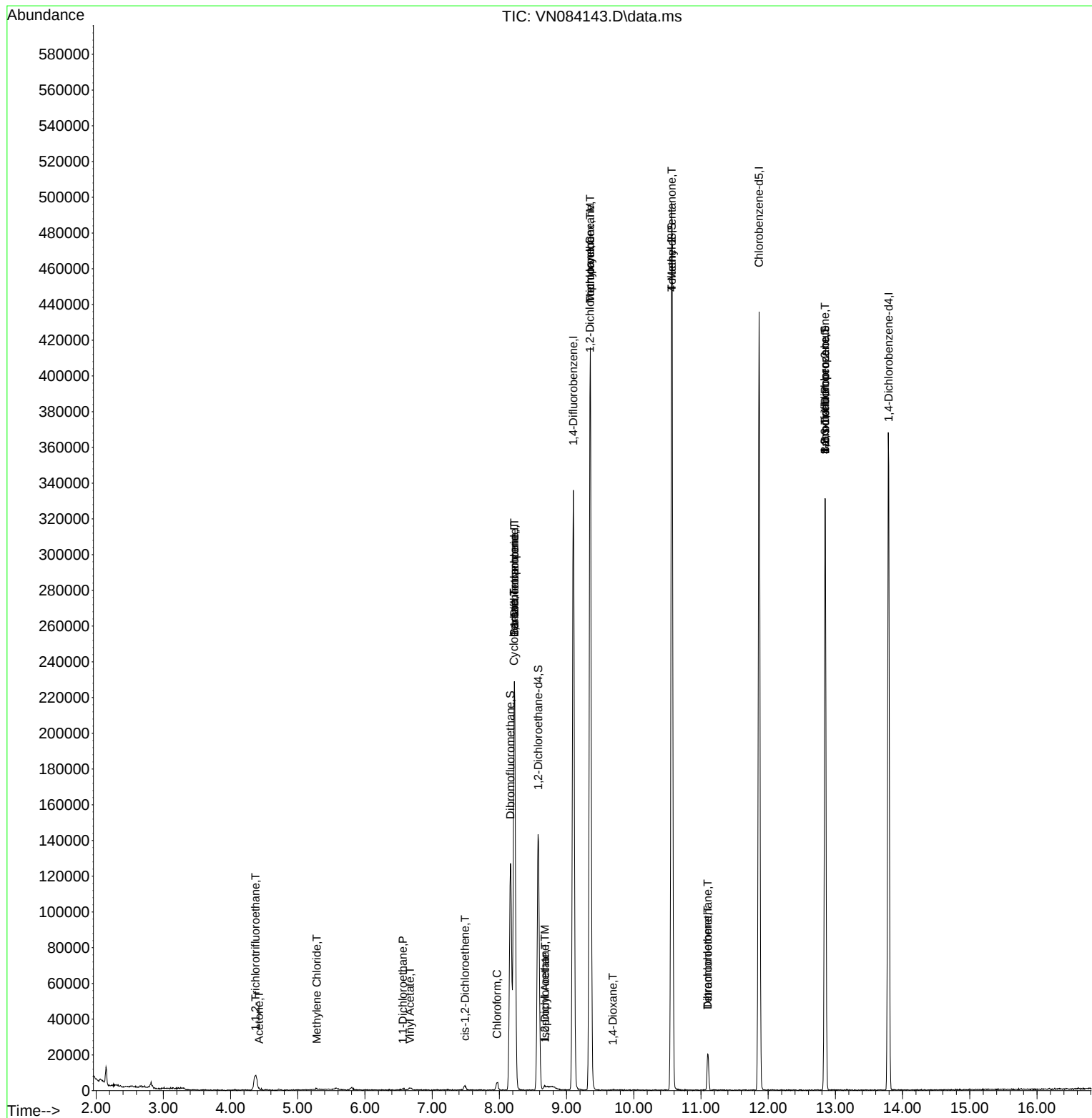
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 156382              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 275050              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 233960              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 94428               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 122798              | 52.077    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 104.160% |           |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 91856               | 52.166    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 104.340% |           |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 334361              | 54.928    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 109.860% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 112893              | 44.951    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 89.900%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 2.365          | 50   | 531                 | Below Cal | #      | 78       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.371          | 101  | 6831                | 3.814     | ug/l   | 95       |
| 16) Acetone                   | 4.424          | 43   | 265                 | 0.280     | ug/l # | 45       |
| 20) Methylene Chloride        | 5.283          | 84   | 396                 | 0.205     | ug/l # | 41       |
| 23) Vinyl Acetate             | 6.671          | 43   | 1077                | 0.237     | ug/l # | 71       |
| 24) 1,1-Dichloroethane        | 6.565          | 63   | 1317                | 0.368     | ug/l # | 82       |
| 27) cis-1,2-Dichloroethene    | 7.488          | 96   | 1674                | 0.778     | ug/l   | 84       |
| 30) Chloroform                | 7.965          | 83   | 4905                | 1.293     | ug/l # | 74       |
| 31) Cyclohexane               | 8.218          | 56   | 3817                | 1.120     | ug/l # | 8        |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 14459               | 5.456     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 17969               | 5.976     | ug/l # | 17       |
| 39) Methylcyclohexane         | 9.353          | 83   | 1826                | 0.605     | ug/l # | 1        |
| 42) 1,2-Dichloroethane        | 8.677          | 62   | 649                 | 0.218     | ug/l # | 77       |
| 43) Isopropyl Acetate         | 8.682          | 43   | 1534                | 0.352     | ug/l # | 57       |
| 44) Trichloroethene           | 9.353          | 130  | 140656              | 76.142    | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.347          | 63   | 439                 | 0.228     | ug/l # | 1        |
| 49) 1,4-Dioxane               | 9.688          | 88   | 131                 | 3.850     | ug/l # | 7        |
| 51) 4-Methyl-2-Pentanone      | 10.565         | 43   | 1503                | 0.633     | ug/l # | 1        |
| 60) Dibromochloromethane      | 11.100         | 129  | 4520                | 2.217     | ug/l # | 10       |
| 64) Tetrachloroethene         | 11.100         | 164  | 4766                | 3.063     | ug/l   | 90       |
| 71) Bromoform                 | 12.847         | 173  | 480                 | 0.395     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 61290               | 32.167    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 61290               | 84.248    | ug/l # | 9        |
| -----                         |                |      |                     |           |        |          |

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

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Sample : P4116-19  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

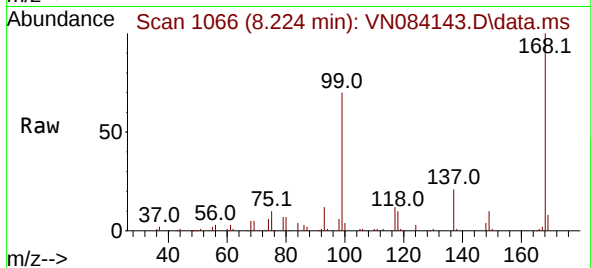
Quant Time: Sep 25 01:39:14 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration



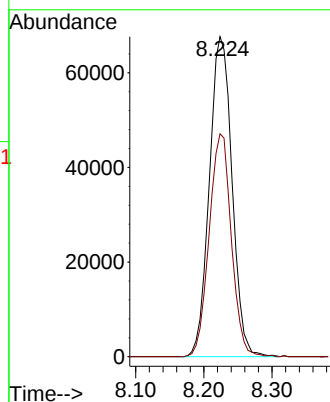
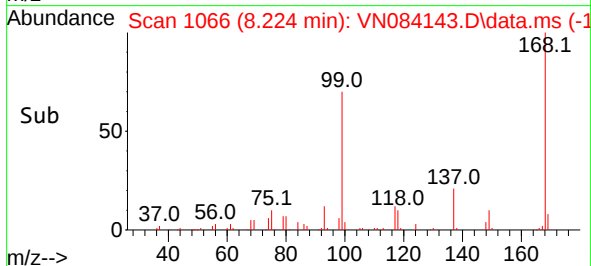


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Instrument :  
MSVOA\_N  
ClientSampleId :

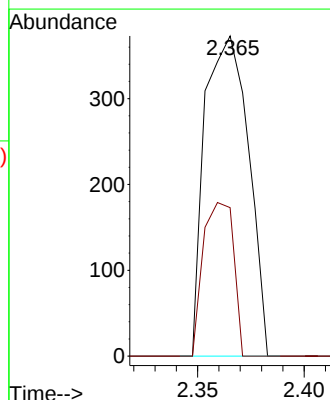
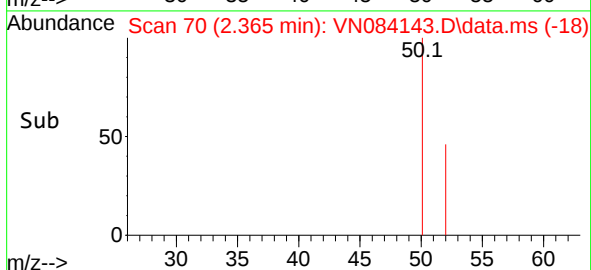
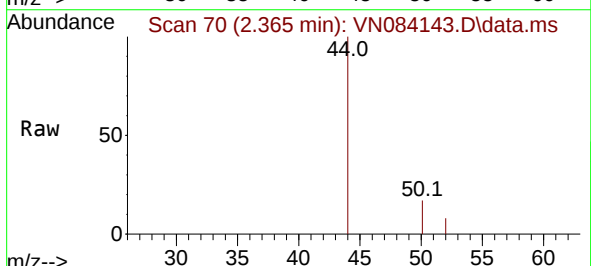


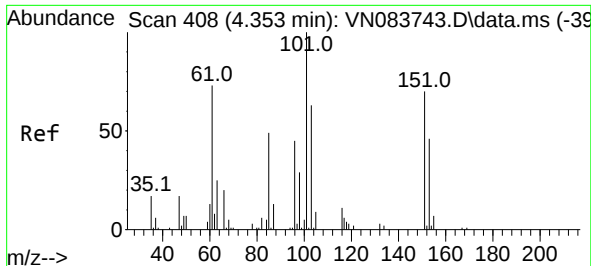
Tgt Ion:168 Resp: 156382  
Ion Ratio Lower Upper  
168 100  
99 69.7 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Tgt Ion: 50 Resp: 531  
Ion Ratio Lower Upper  
50 100  
52 46.4 27.2 40.8#

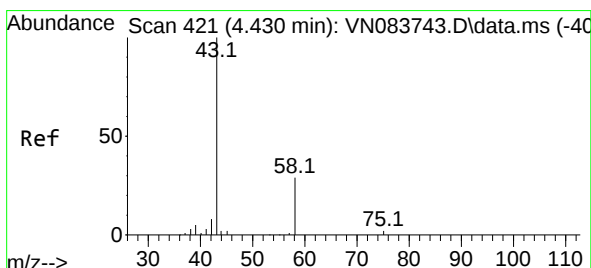
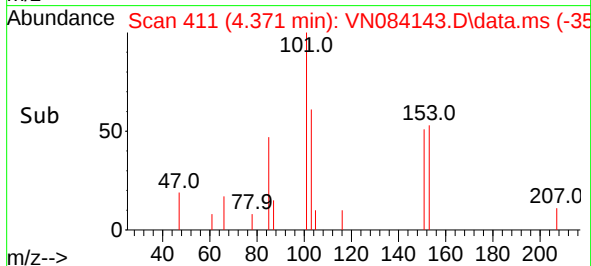
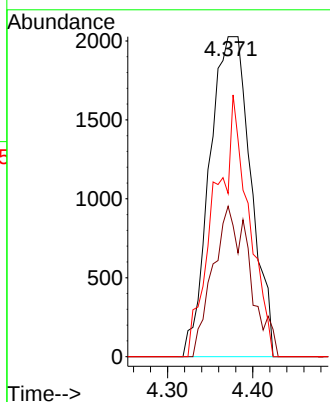
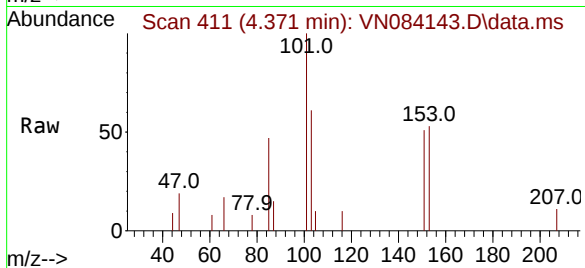




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 3.814 ug/l  
RT: 4.371 min Scan# 411  
Delta R.T. 0.018 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

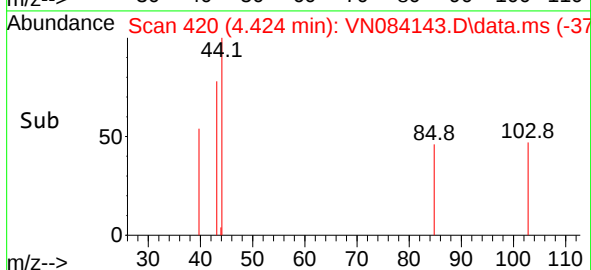
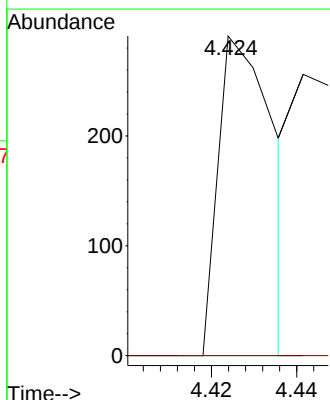
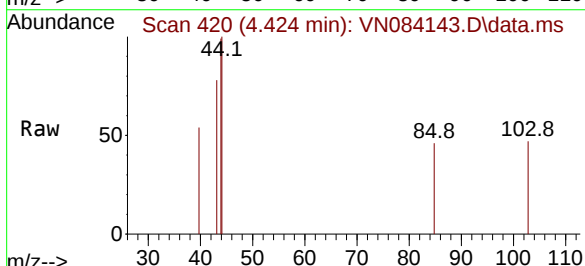
Instrument :  
MSVOA\_N  
ClientSampleId :

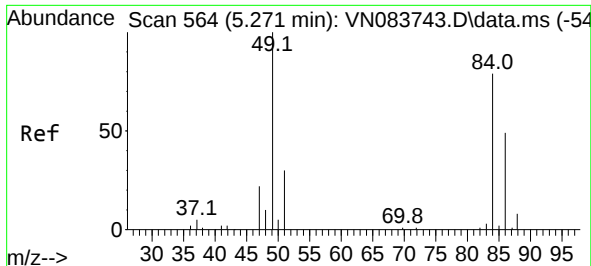
Tgt Ion:101 Resp: 6831  
Ion Ratio Lower Upper  
101 100  
85 42.1 36.2 54.4  
151 67.5 57.7 86.5



#16  
Acetone  
Concen: 0.280 ug/l  
RT: 4.424 min Scan# 420  
Delta R.T. -0.006 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

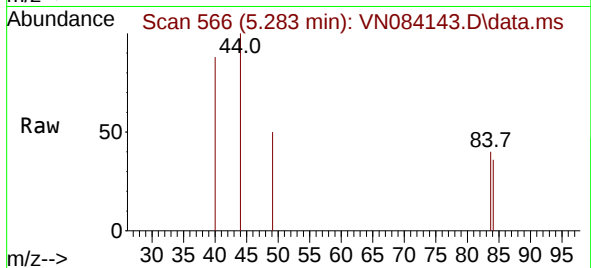
Tgt Ion: 43 Resp: 265  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.7 35.5#



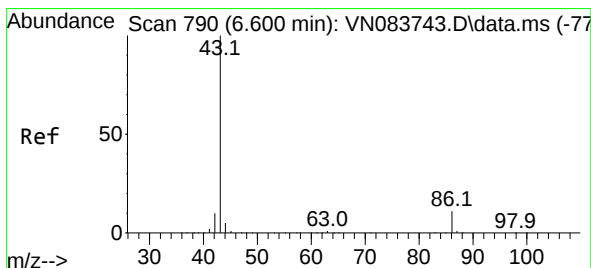
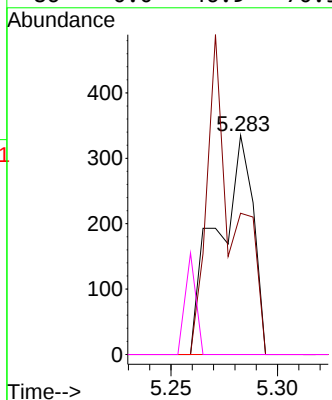
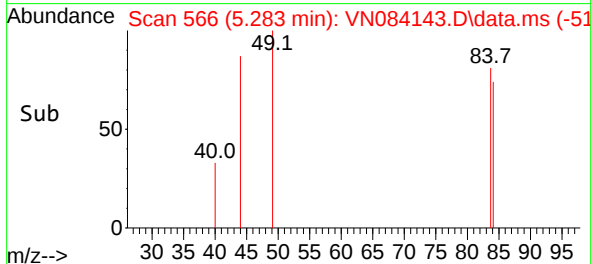


#20  
Methylene Chloride  
Concen: 0.205 ug/l  
RT: 5.283 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Instrument :  
MSVOA\_N  
ClientSampleId :

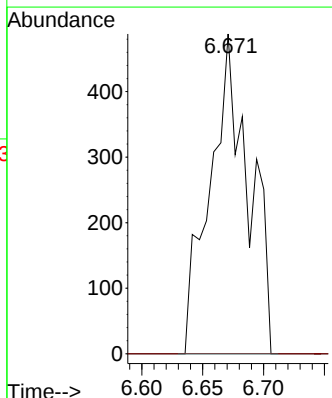
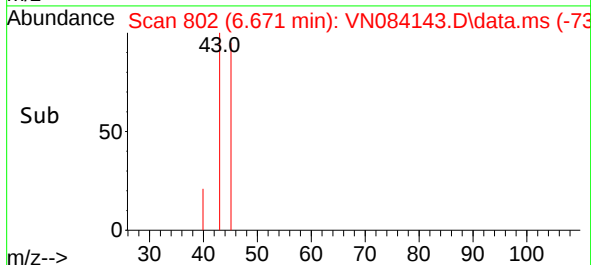
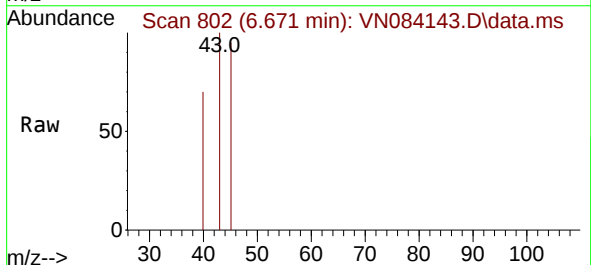


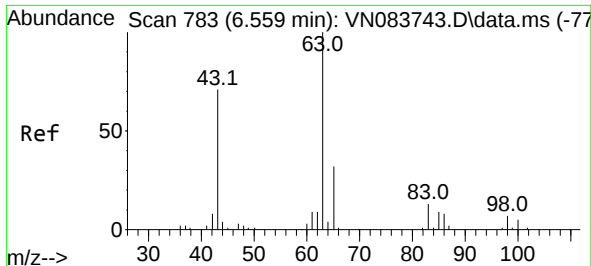
Tgt Ion: 84 Resp: 396  
Ion Ratio Lower Upper  
84 100  
49 64.5 93.4 140.0#  
51 0.0 29.2 43.8#  
86 0.0 46.9 70.3#



#23  
Vinyl Acetate  
Concen: 0.237 ug/l  
RT: 6.671 min Scan# 802  
Delta R.T. 0.071 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Tgt Ion: 43 Resp: 1077  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.7 13.1#

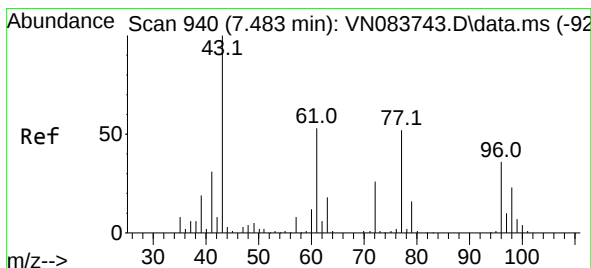
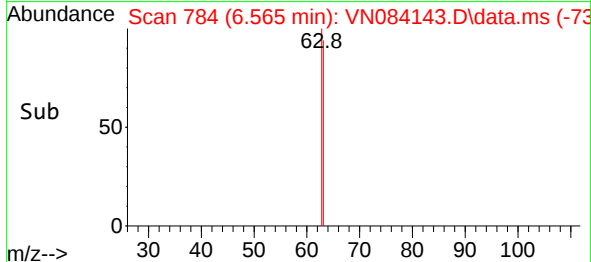
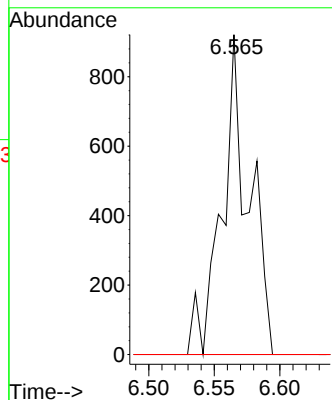
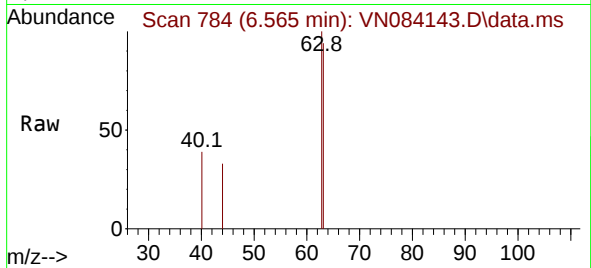




#24  
1,1-Dichloroethane  
Concen: 0.368 ug/l  
RT: 6.565 min Scan# 784  
Delta R.T. 0.006 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

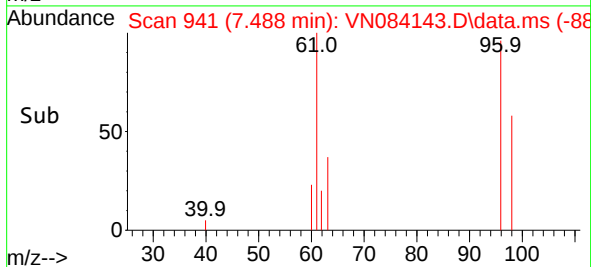
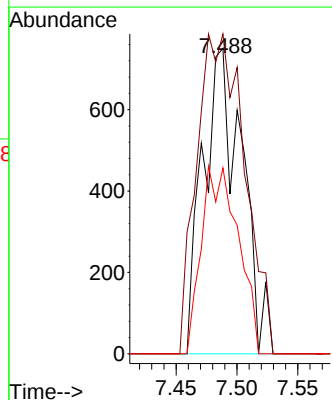
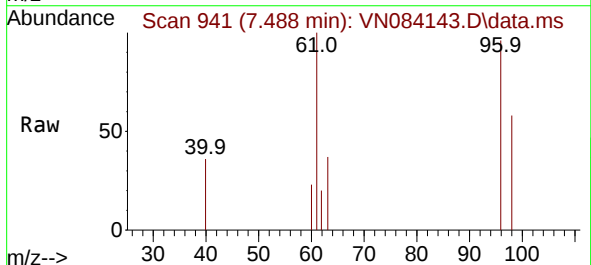
Instrument :  
MSVOA\_N  
ClientSampleId :

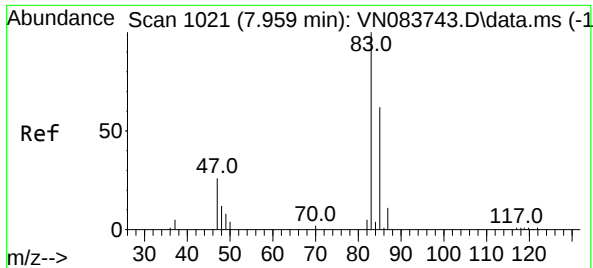
Tgt Ion: 63 Resp: 1317  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.5 10.4#  
100 0.0 2.5 7.5#



#27  
cis-1,2-Dichloroethene  
Concen: 0.778 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Tgt Ion: 96 Resp: 1674  
Ion Ratio Lower Upper  
96 100  
61 128.7 0.0 306.2  
98 57.7 0.0 128.6





#30

Chloroform

Concen: 1.293 ug/l

RT: 7.965 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VN084143.D

Acq: 24 Sep 2024 18:43

Instrument :

MSVOA\_N

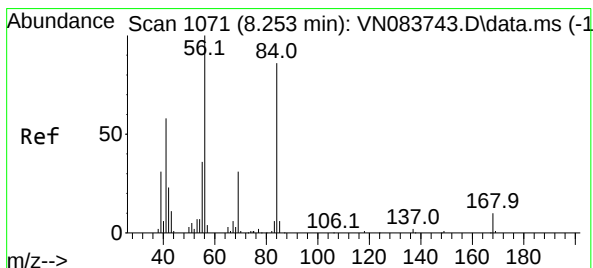
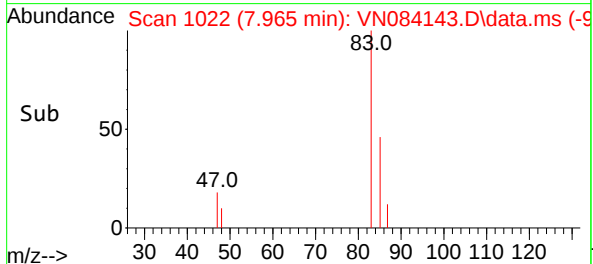
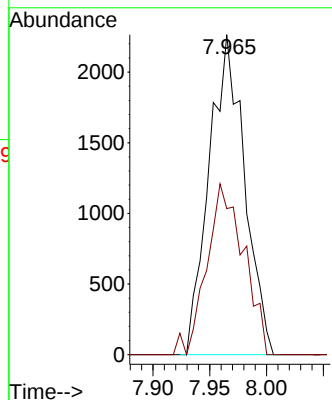
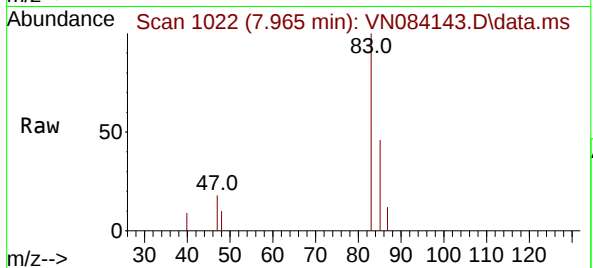
ClientSampleId :

Tgt Ion: 83 Resp: 4905

Ion Ratio Lower Upper

83 100

85 45.7 52.8 79.2#



#31

Cyclohexane

Concen: 1.120 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN084143.D

Acq: 24 Sep 2024 18:43

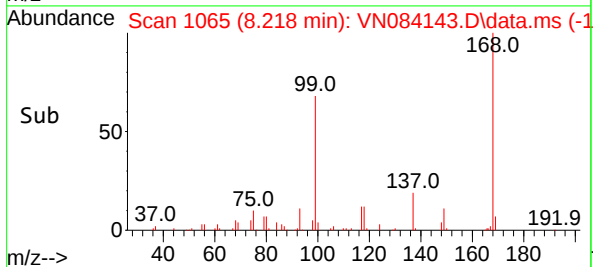
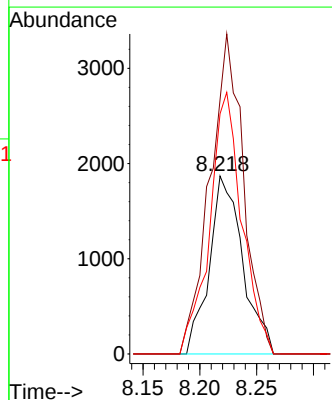
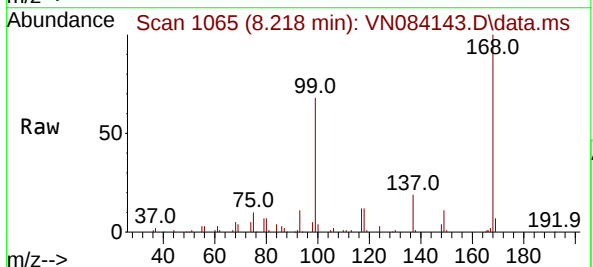
Tgt Ion: 56 Resp: 3817

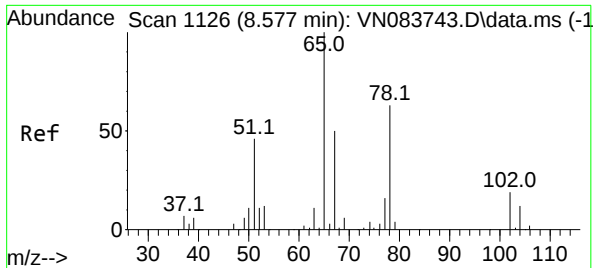
Ion Ratio Lower Upper

56 100

69 142.9 26.9 40.3#

84 135.0 69.2 103.8#

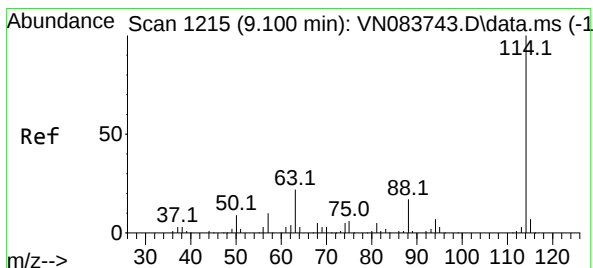
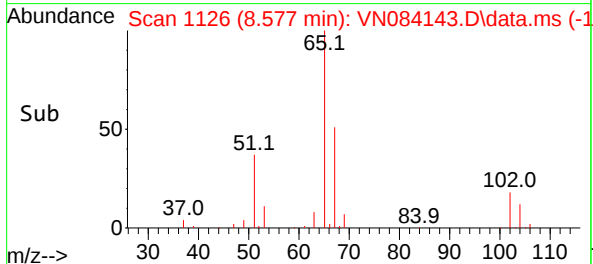
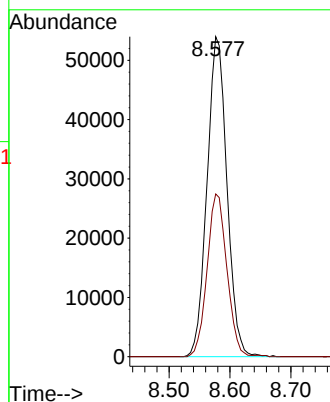
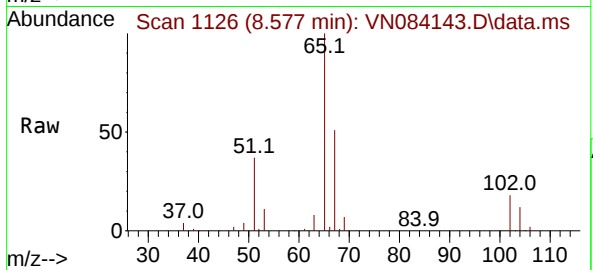




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.077 ug/l  
 RT: 8.577 min Scan# 1126  
 Delta R.T. -0.000 min  
 Lab File: VN084143.D  
 Acq: 24 Sep 2024 18:43

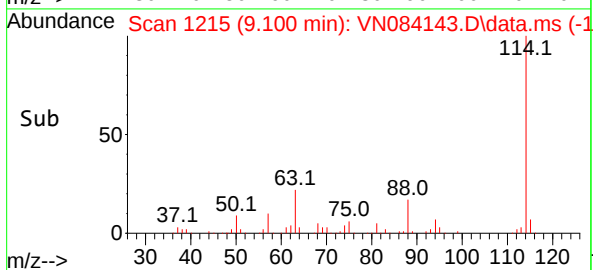
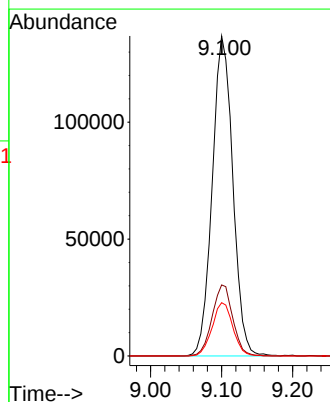
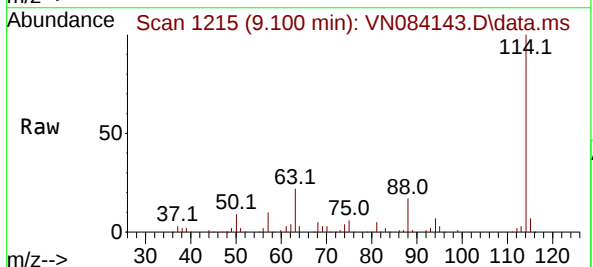
Instrument :  
 MSVOA\_N  
 ClientSampleId :

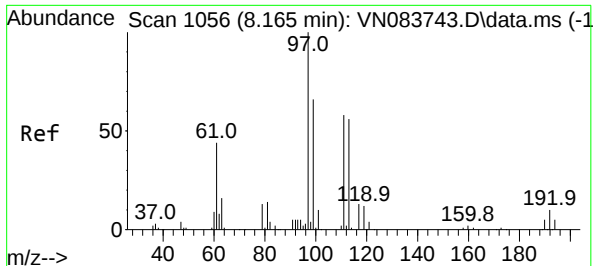
Tgt Ion: 65 Resp: 122798  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 100.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. -0.000 min  
 Lab File: VN084143.D  
 Acq: 24 Sep 2024 18:43

Tgt Ion: 114 Resp: 275050  
 Ion Ratio Lower Upper  
 114 100  
 63 22.2 0.0 43.4  
 88 16.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 52.166 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084143.D

Acq: 24 Sep 2024 18:43

Instrument :

MSVOA\_N

ClientSampleId :

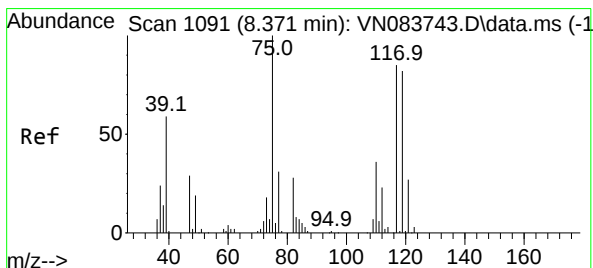
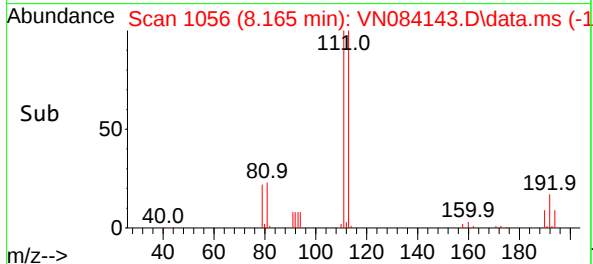
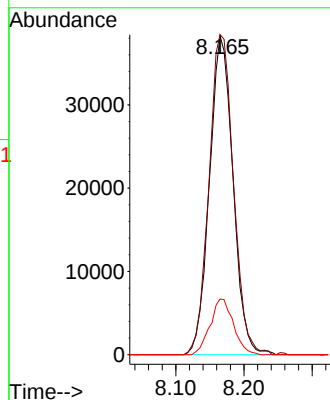
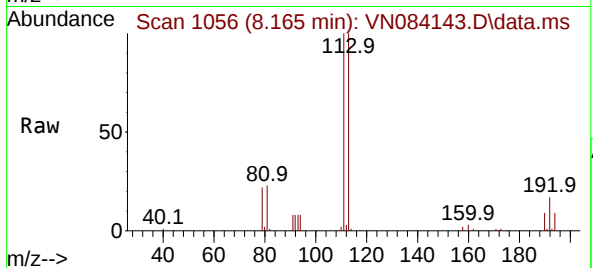
Tgt Ion:113 Resp: 91856

Ion Ratio Lower Upper

113 100

111 104.3 82.6 124.0

192 17.3 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.456 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084143.D

Acq: 24 Sep 2024 18:43

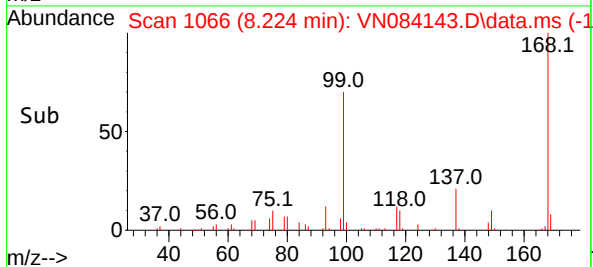
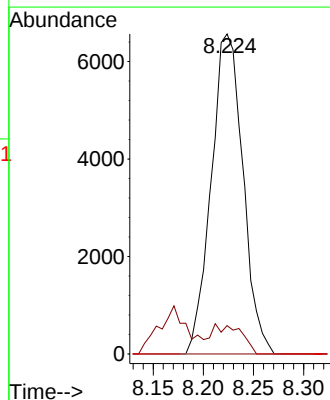
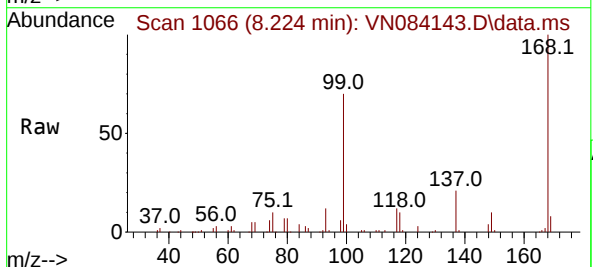
Tgt Ion: 75 Resp: 14459

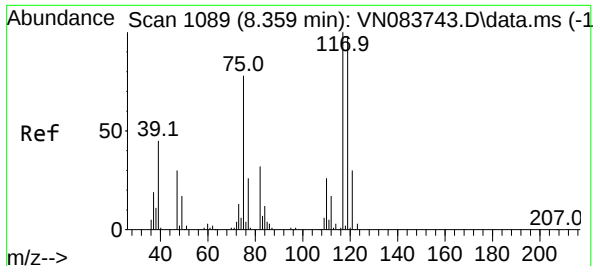
Ion Ratio Lower Upper

75 100

110 8.6 16.7 50.1#

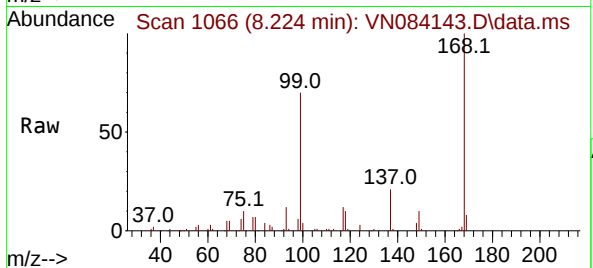
77 0.0 25.2 37.8#



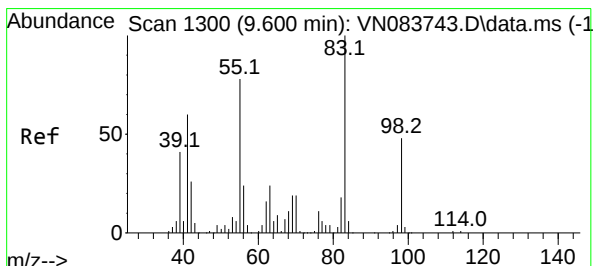
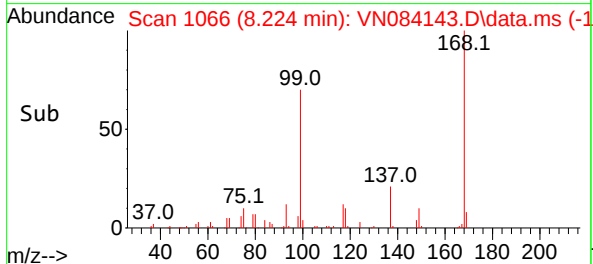
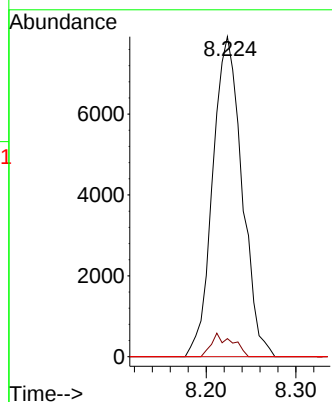


#38  
Carbon Tetrachloride  
Concen: 5.976 ug/l  
RT: 8.224 min Scan# 117  
Delta R.T. -0.135 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Instrument :  
MSVOA\_N  
ClientSampleId :

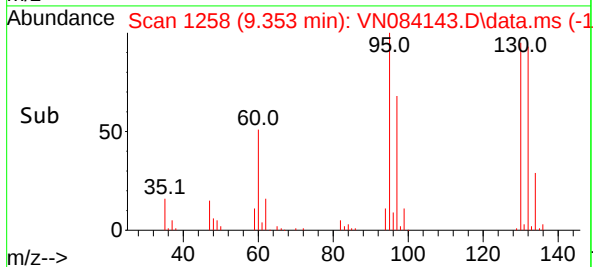
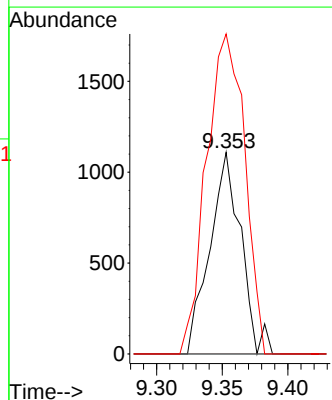
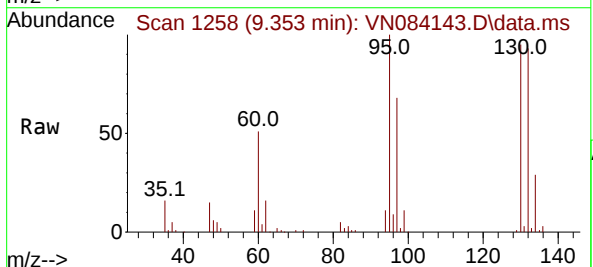


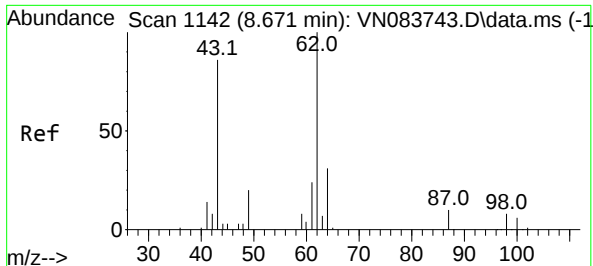
Tgt Ion: 117 Resp: 17969  
Ion Ratio Lower Upper  
117 100  
119 5.7 76.1 114.1#  
121 0.0 24.1 36.1#



#39  
Methylcyclohexane  
Concen: 0.605 ug/l  
RT: 9.353 min Scan# 1258  
Delta R.T. -0.247 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Tgt Ion: 83 Resp: 1826  
Ion Ratio Lower Upper  
83 100  
55 0.0 62.2 93.4#  
98 158.8 37.6 56.4#





#42

1,2-Dichloroethane

Concen: 0.218 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN084143.D

Acq: 24 Sep 2024 18:43

Instrument :

MSVOA\_N

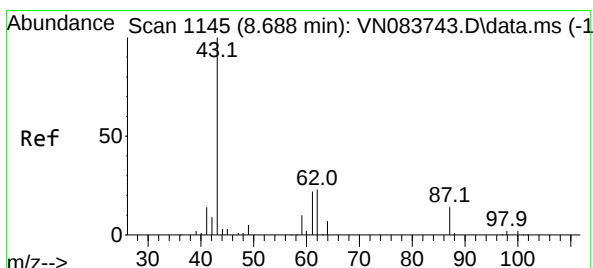
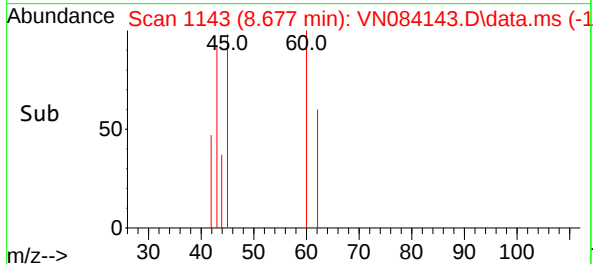
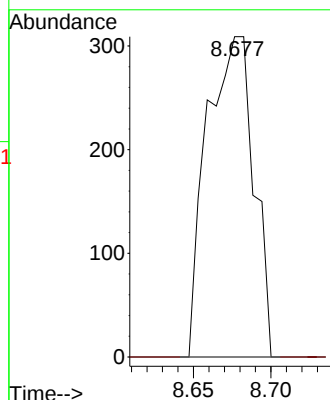
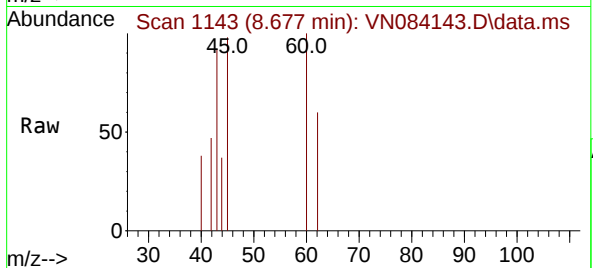
ClientSampleId :

Tgt Ion: 62 Resp: 649

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6



#43

Isopropyl Acetate

Concen: 0.352 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.006 min

Lab File: VN084143.D

Acq: 24 Sep 2024 18:43

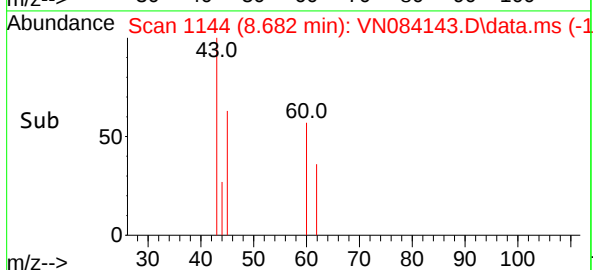
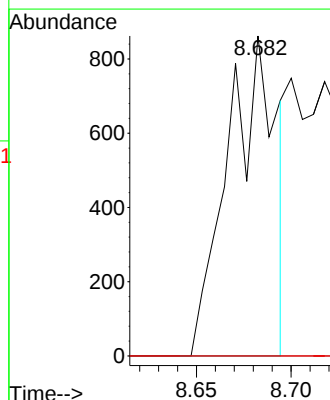
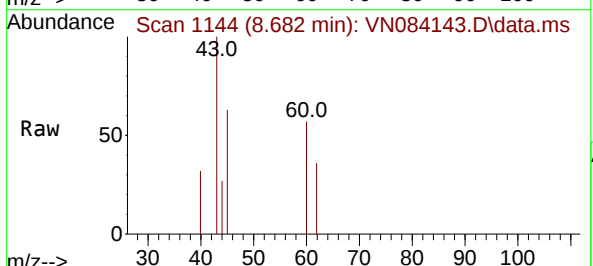
Tgt Ion: 43 Resp: 1534

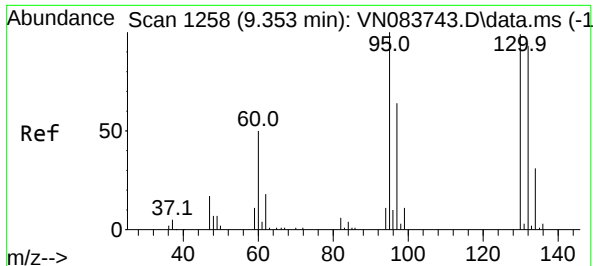
Ion Ratio Lower Upper

43 100

61 0.0 19.4 29.0#

87 0.0 9.8 14.6#

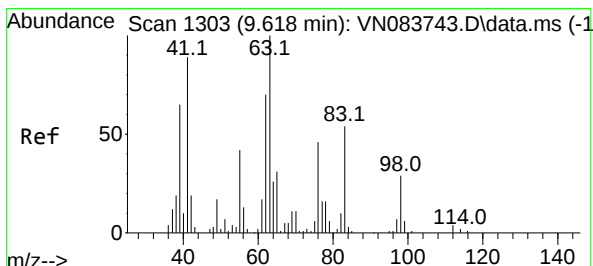
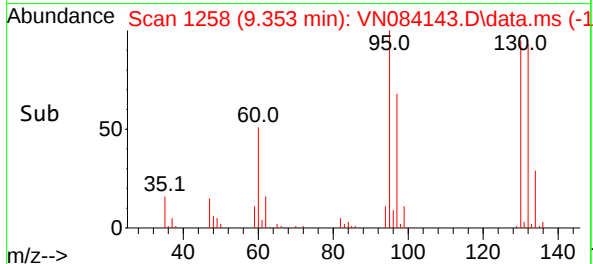
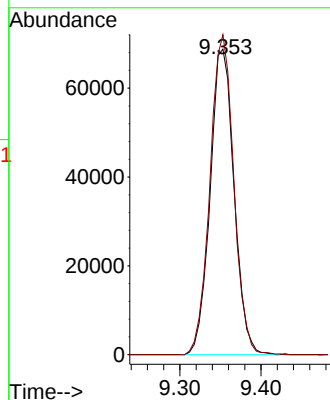
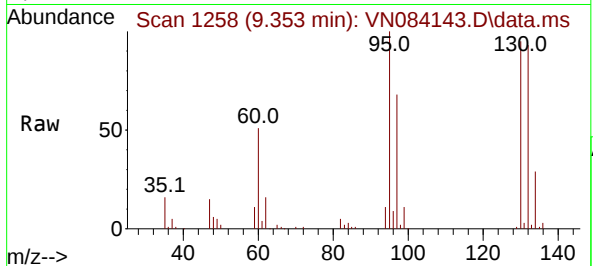




#44  
Trichloroethene  
Concen: 76.142 ug/l  
RT: 9.353 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

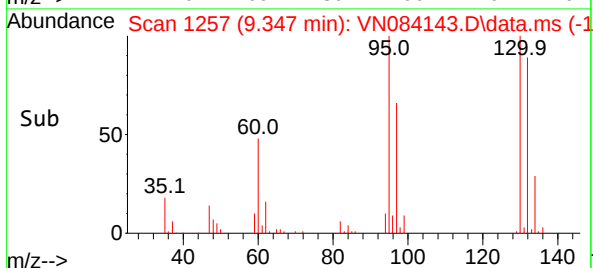
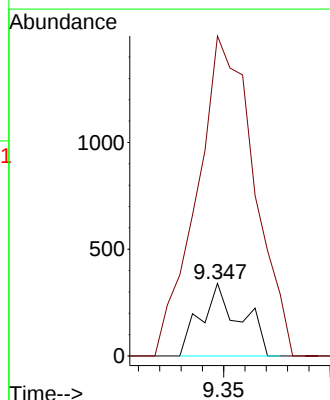
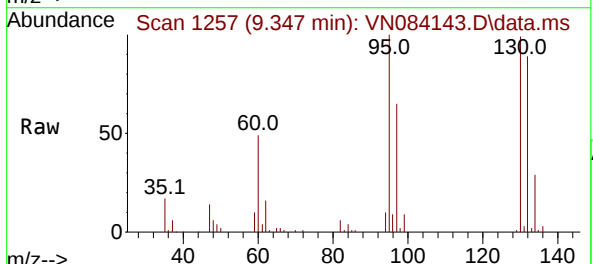
Instrument :  
MSVOA\_N  
ClientSampleId :

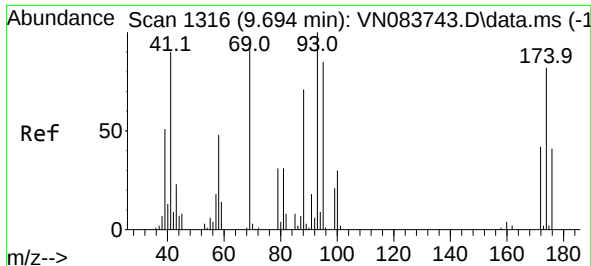
Tgt Ion:130 Resp: 140656  
Ion Ratio Lower Upper  
130 100  
95 104.7 0.0 200.4



#45  
1,2-Dichloropropane  
Concen: 0.228 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. -0.271 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Tgt Ion: 63 Resp: 439  
Ion Ratio Lower Upper  
63 100  
65 355.9 25.9 38.9#





#49

1,4-Dioxane

Concen: 3.850 ug/l

RT: 9.688 min Scan# 1316

Delta R.T. -0.006 min

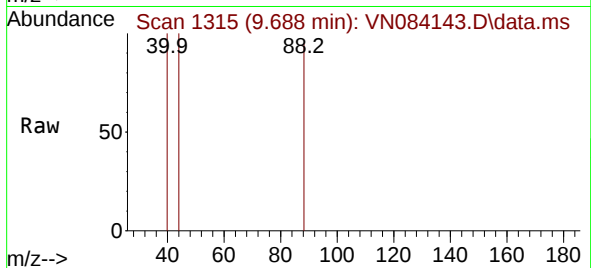
Lab File: VN084143.D

Acq: 24 Sep 2024 18:43

Instrument :

MSVOA\_N

ClientSampleId :



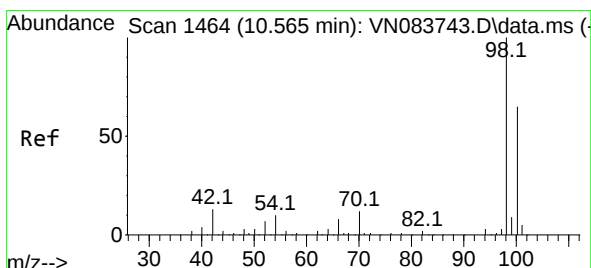
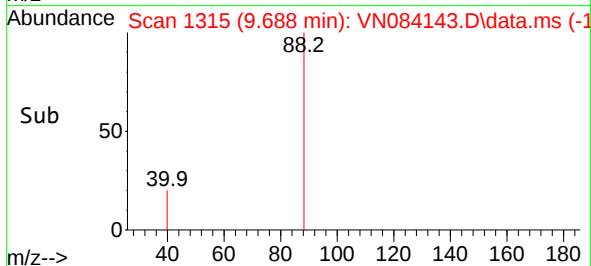
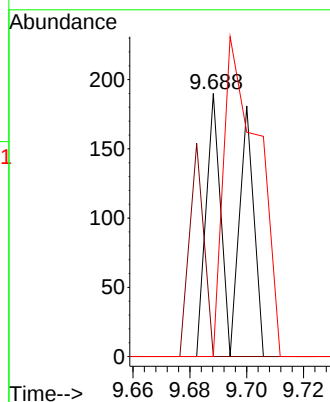
Tgt Ion: 88 Resp: 131

Ion Ratio Lower Upper

88 100

43 41.2 0.0 0.0#

58 148.9 57.1 85.7#



#50

Toluene-d8

Concen: 54.928 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084143.D

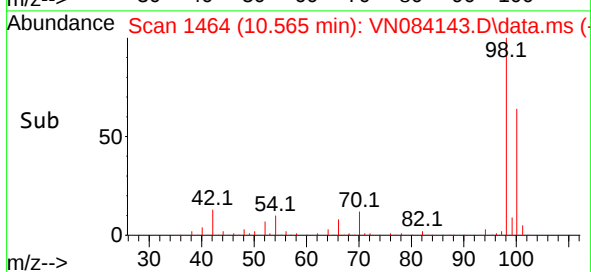
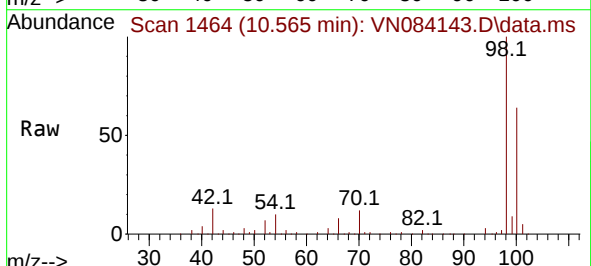
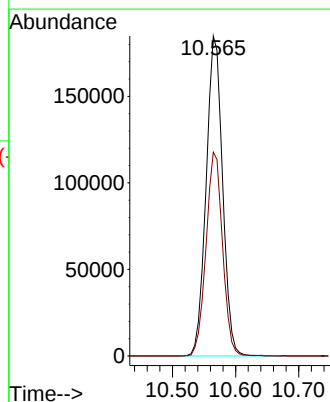
Acq: 24 Sep 2024 18:43

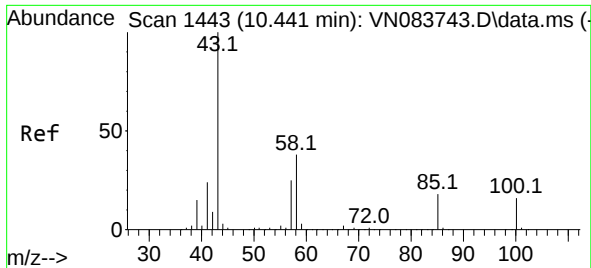
Tgt Ion: 98 Resp: 334361

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0

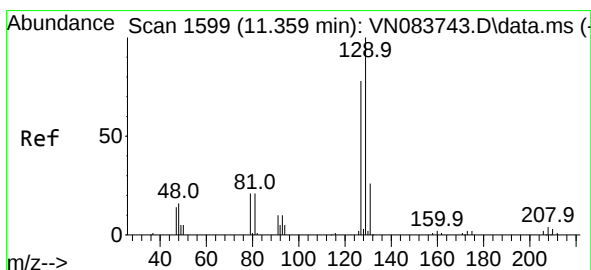
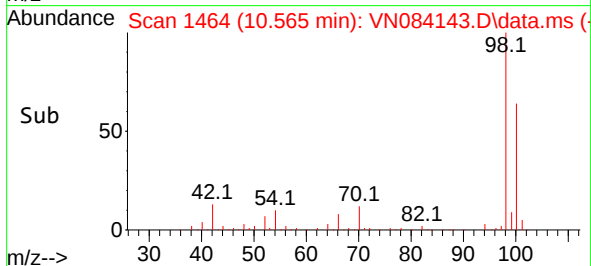
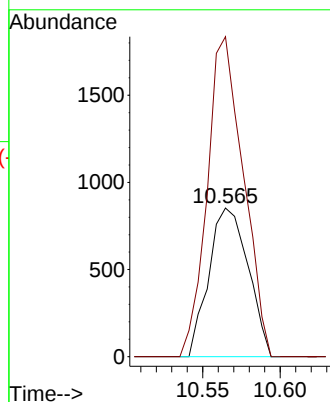
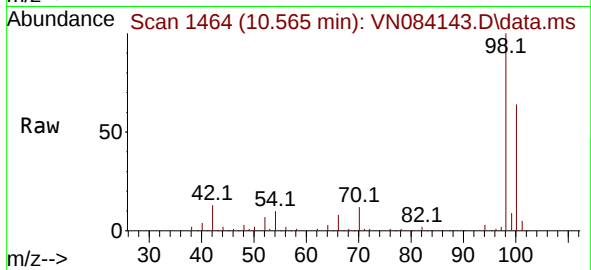




#51  
4-Methyl-2-Pentanone  
Concen: 0.633 ug/l  
RT: 10.565 min Scan# 1443  
Delta R.T. 0.123 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

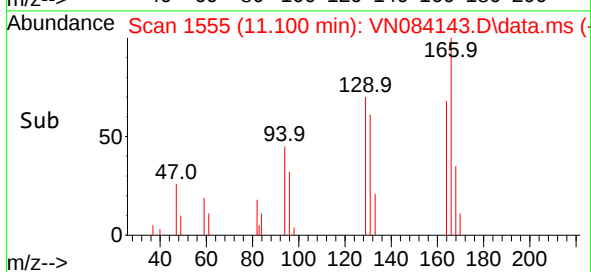
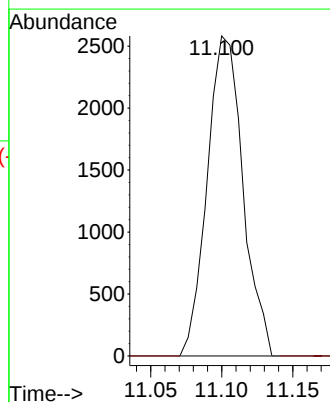
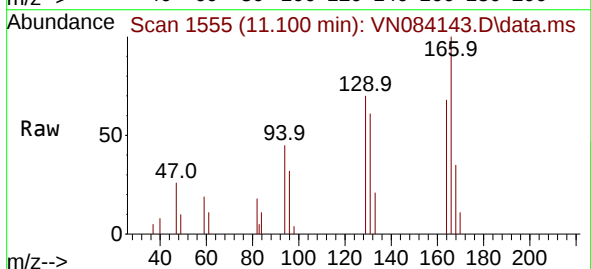
Instrument :  
MSVOA\_N  
ClientSampleId :

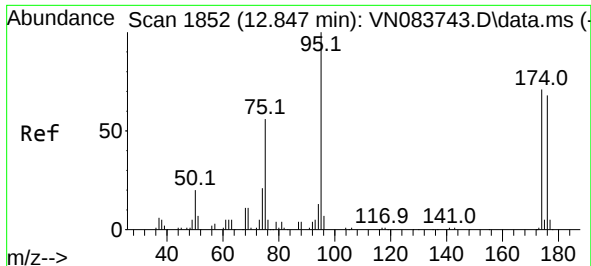
Tgt Ion: 43 Resp: 1503  
Ion Ratio Lower Upper  
43 100  
58 198.3 31.6 47.4#



#60  
Dibromochloromethane  
Concen: 2.217 ug/l  
RT: 11.100 min Scan# 1555  
Delta R.T. -0.259 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Tgt Ion: 129 Resp: 4520  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 116.9#

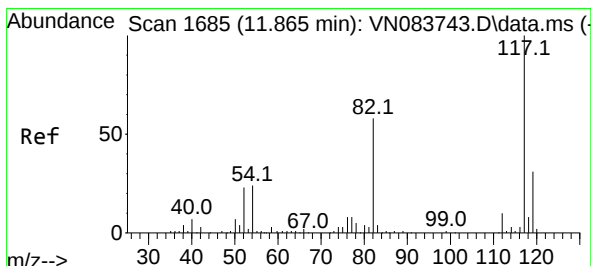
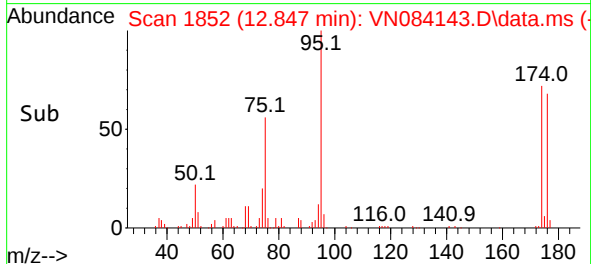
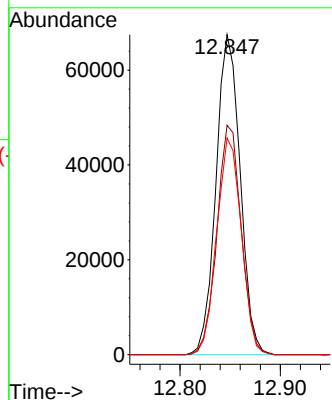
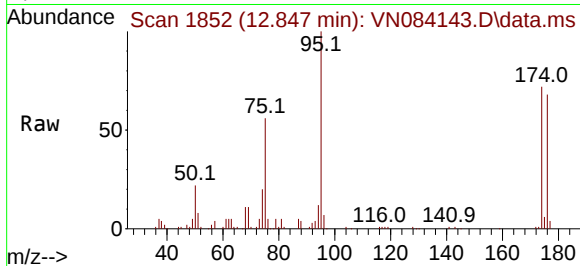




#62  
4-Bromofluorobenzene  
Concen: 44.951 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

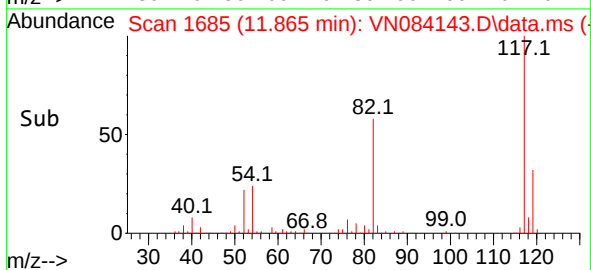
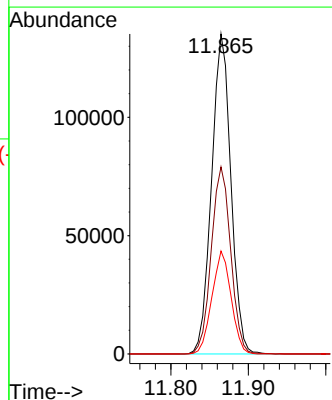
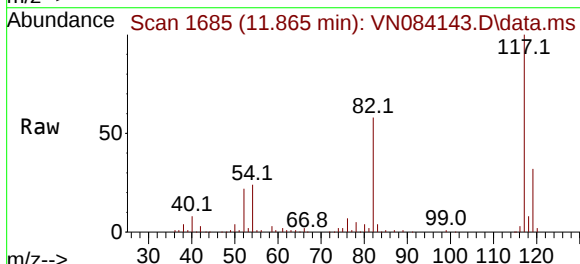
Instrument :  
MSVOA\_N  
ClientSampleId :

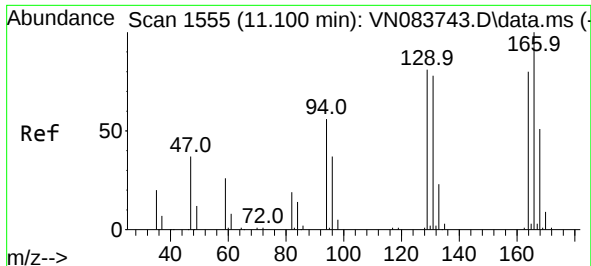
Tgt Ion: 95 Resp: 112893  
Ion Ratio Lower Upper  
95 100  
174 72.0 0.0 139.8  
176 68.8 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

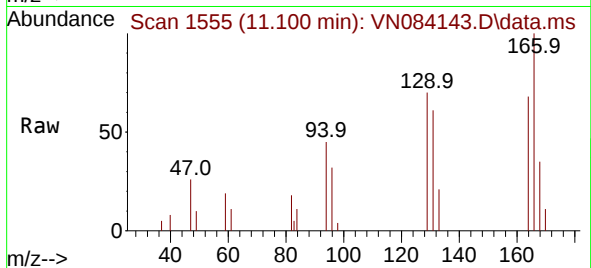
Tgt Ion: 117 Resp: 233960  
Ion Ratio Lower Upper  
117 100  
82 58.4 47.4 71.0  
119 32.1 26.3 39.5



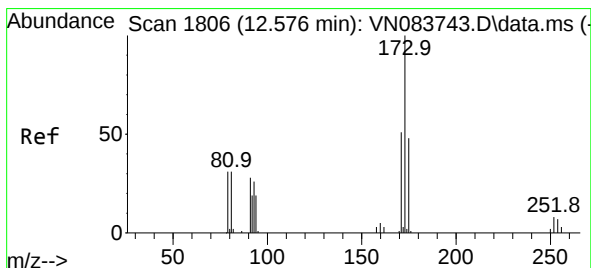
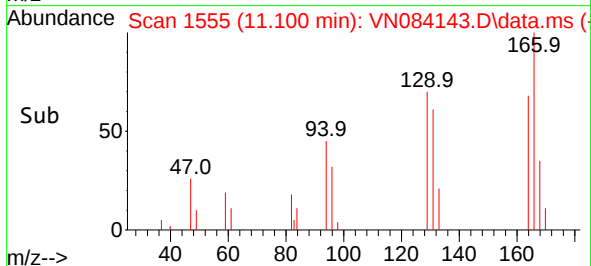
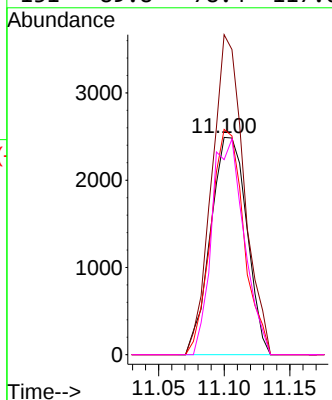


#64  
Tetrachloroethene  
Concen: 3.063 ug/l  
RT: 11.100 min Scan# 111  
Delta R.T. -0.000 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

Instrument :  
MSVOA\_N  
ClientSampleId :

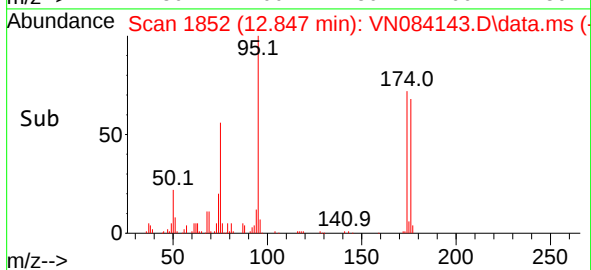
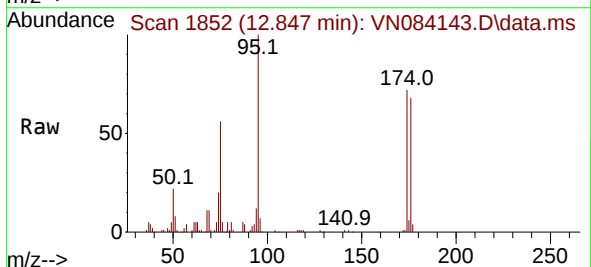
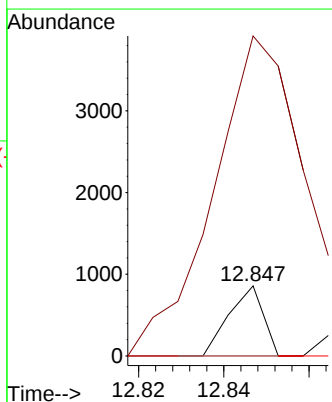


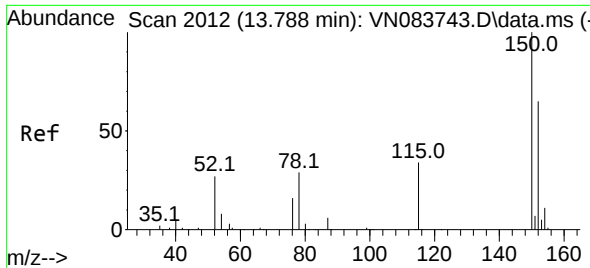
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 4766  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 147.3 | 103.7 | 155.5 |
| 129      | 103.7 | 79.9  | 119.9 |
| 131      | 89.8  | 78.4  | 117.6 |



#71  
Bromoform  
Concen: 0.395 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.270 min  
Lab File: VN084143.D  
Acq: 24 Sep 2024 18:43

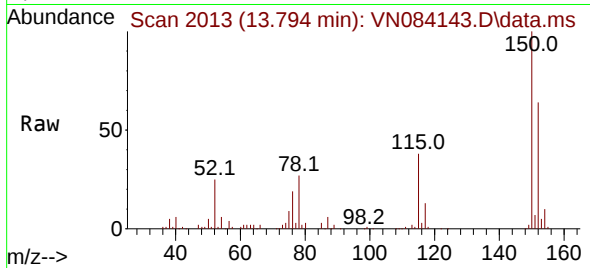
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 480   |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 944.2 | 24.1  | 72.2# |
| 254      | 0.0   | 0.0   | 0.0   |



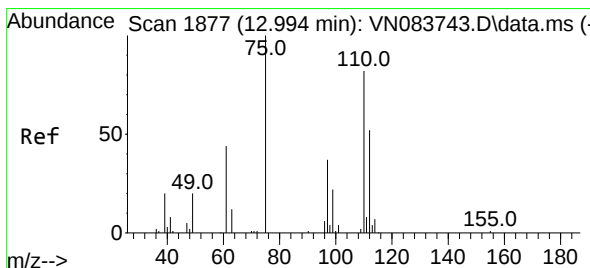
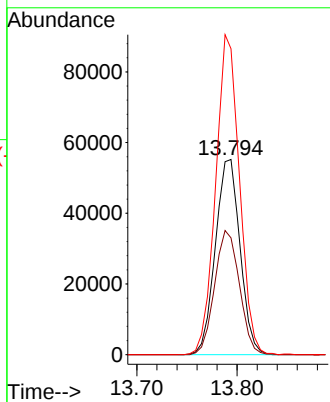
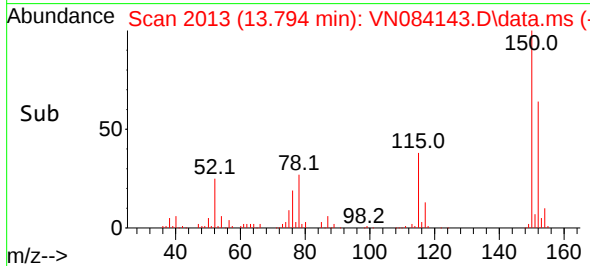


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 20  
 Delta R.T. 0.006 min  
 Lab File: VN084143.D  
 Acq: 24 Sep 2024 18:43

Instrument :  
 MSVOA\_N  
 ClientSampleId :

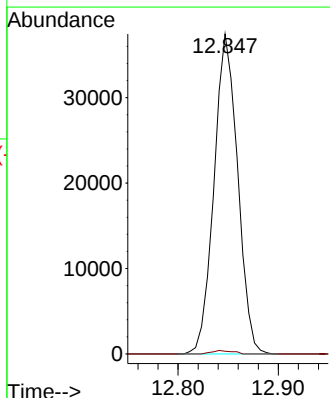
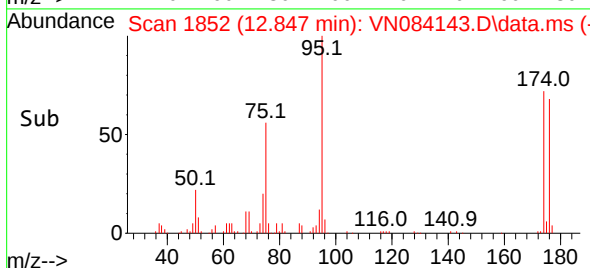
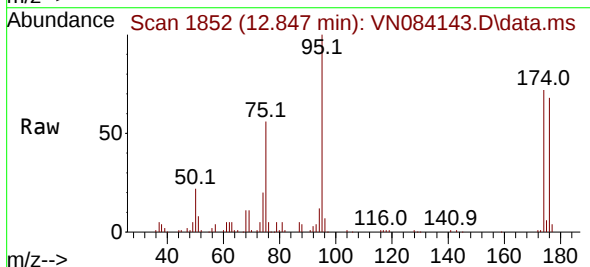


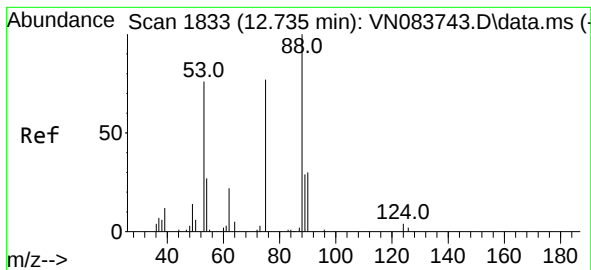
Tgt Ion:152 Resp: 94428  
 Ion Ratio Lower Upper  
 152 100  
 115 63.8 32.2 96.6  
 150 157.5 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 32.167 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.147 min  
 Lab File: VN084143.D  
 Acq: 24 Sep 2024 18:43

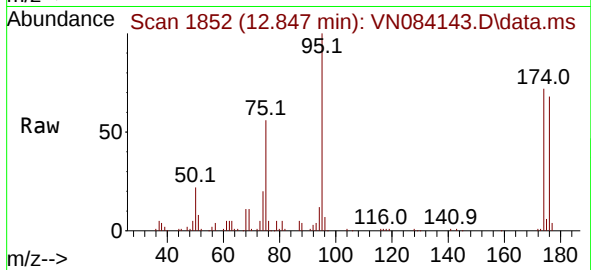
Tgt Ion: 75 Resp: 61290  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 95.2 285.6#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 84.248 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN084143.D  
 Acq: 24 Sep 2024 18:43

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 61290  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 81.2 121.8#  
 89 0.0 35.7 53.5#

