

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110124\  
 Data File : VN084634.D  
 Acq On : 01 Nov 2024 13:20  
 Operator : JC\MD  
 Sample : P4658-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB

Quant Time: Nov 04 04:26:43 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

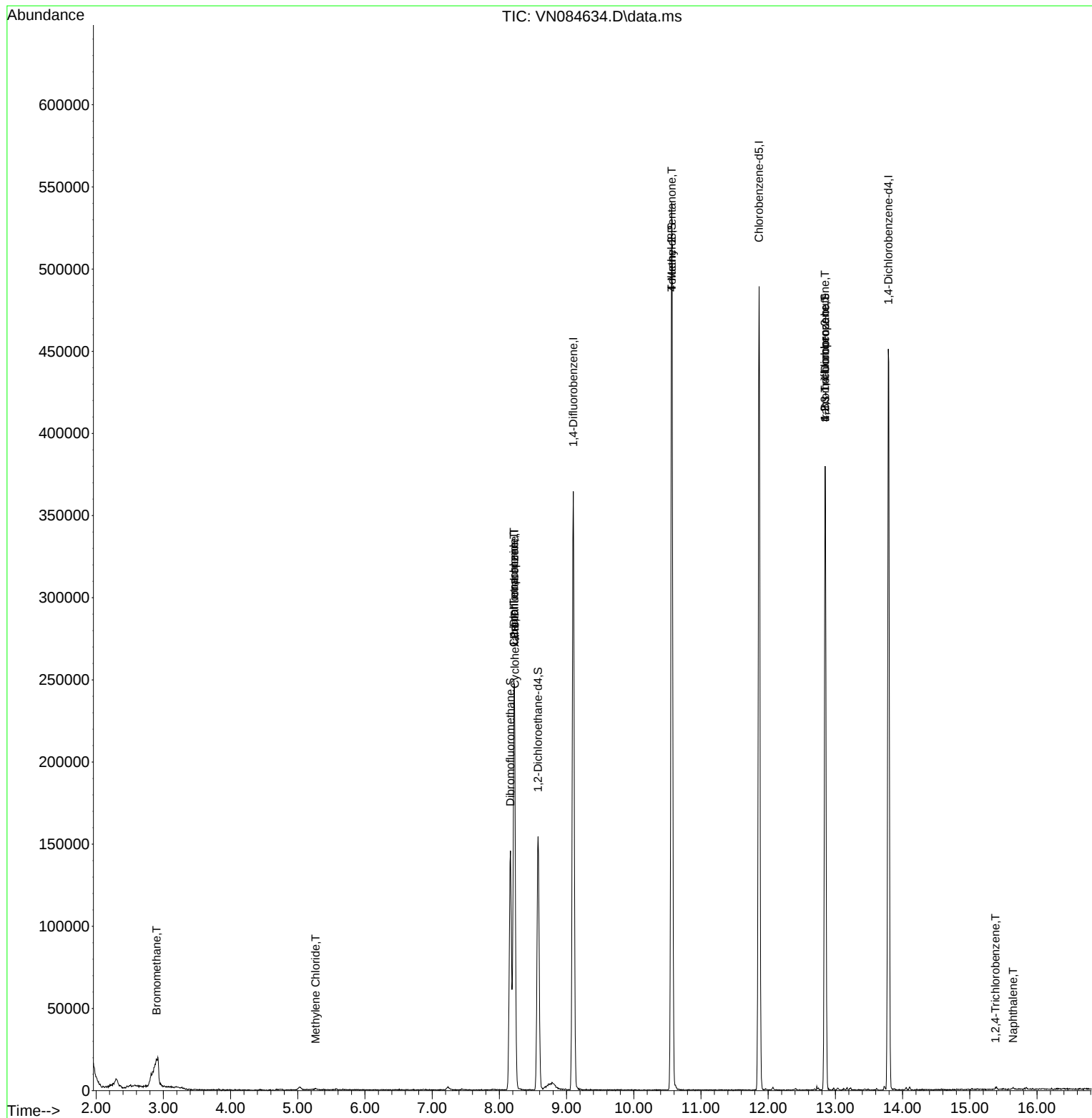
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168            | 177716   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114            | 313388   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117            | 275782   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152            | 122691   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.576  | 65             | 130011   | 50.651     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 101.300% |        |          |
| 35) Dibromofluoromethane      | 8.165  | 113            | 104651   | 49.334     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 98.660%  |        |          |
| 50) Toluene-d8                | 10.565 | 98             | 371650   | 47.562     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 95.120%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95             | 132405   | 45.339     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 77 - 121 | Recovery | = 90.680%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50             | 1375     | Below Cal  | #      | 86       |
| 5) Bromomethane               | 2.900  | 94             | 350      | 0.301      | ug/l   | 83       |
| 6) Chloroethane               | 3.136  | 64             | 111      | Below Cal  | #      | 45       |
| 16) Acetone                   | 4.447  | 43             | 758      | Below Cal  | #      | 44       |
| 18) Methyl Acetate            | 5.030  | 43             | 3540     | Below Cal  | #      | 87       |
| 20) Methylene Chloride        | 5.265  | 84             | 581      | 0.257      | ug/l   | # 37     |
| 31) Cyclohexane               | 8.229  | 56             | 4189     | 1.182      | ug/l   | # 8      |
| 36) 1,1-Dichloropropene       | 8.218  | 75             | 14238    | 4.840      | ug/l   | # 50     |
| 38) Carbon Tetrachloride      | 8.218  | 117            | 19472    | 5.922      | ug/l   | # 16     |
| 43) Isopropyl Acetate         | 8.671  | 43             | 866      | Below Cal  | #      | 56       |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43             | 1525     | 0.599      | ug/l   | # 1      |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75             | 68218    | 27.815     | ug/l   | # 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75             | 68218    | 65.989     | ug/l   | # 11     |
| 88) 1,4-Dichlorobenzene       | 13.729 | 146            | 875      | Below Cal  |        | 86       |
| 93) 1,2,4-Trichlorobenzene    | 15.382 | 180            | 498      | 0.210      | ug/l   | # 20     |
| 95) Naphthalene               | 15.647 | 128            | 1753     | 0.247      | ug/l   | # 74     |
| -----                         |        |                |          |            |        |          |

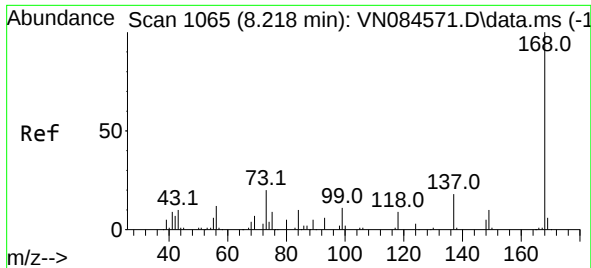
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110124\  
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Sample : P4658-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

Quant Time: Nov 04 04:26:43 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

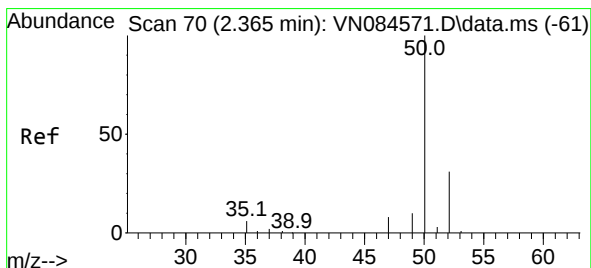
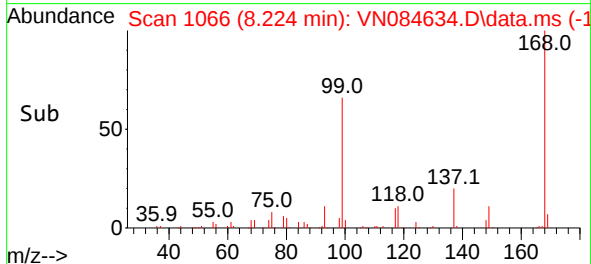
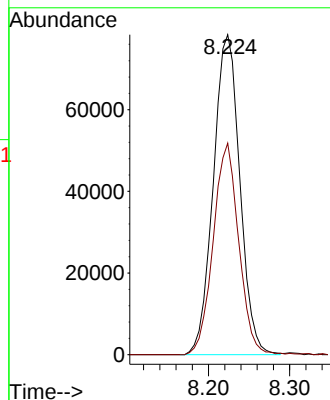
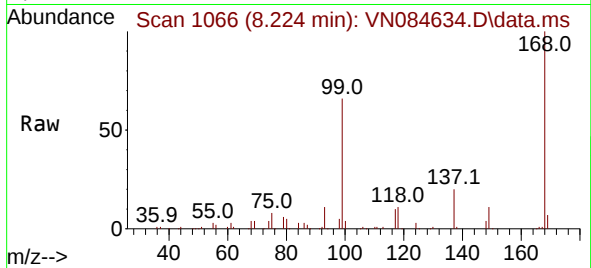




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

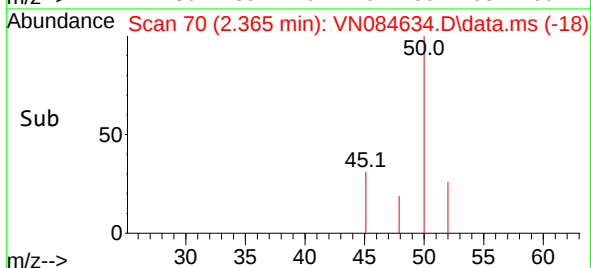
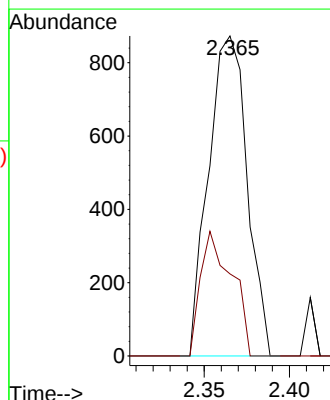
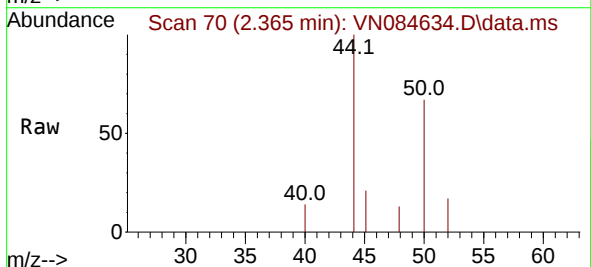
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

Tgt Ion:168 Resp: 177716  
Ion Ratio Lower Upper  
168 100  
99 66.1 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

Tgt Ion: 50 Resp: 1375  
Ion Ratio Lower Upper  
50 100  
52 25.7 26.8 40.2#

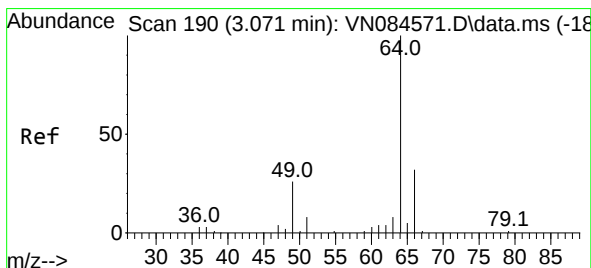
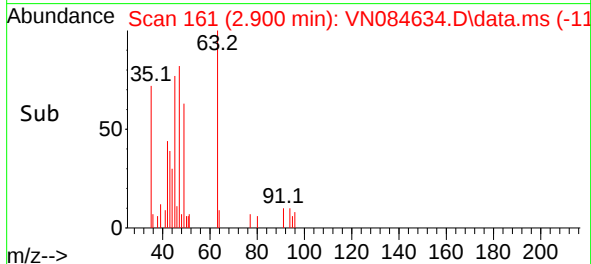
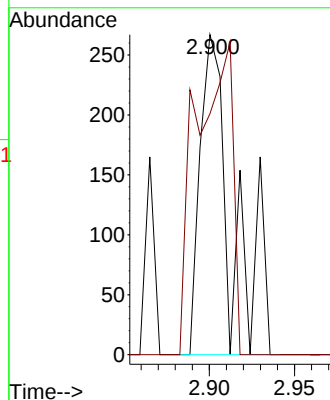
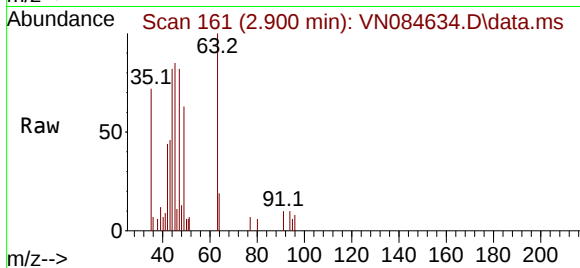




#5  
Bromomethane  
Concen: 0.301 ug/l  
RT: 2.900 min Scan# 11  
Delta R.T. -0.053 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

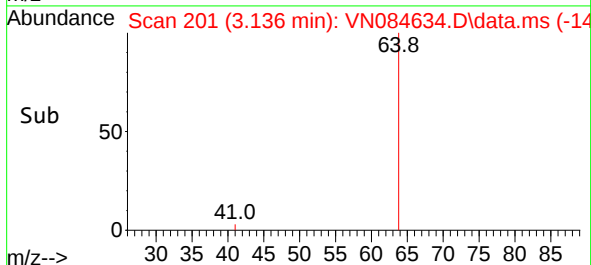
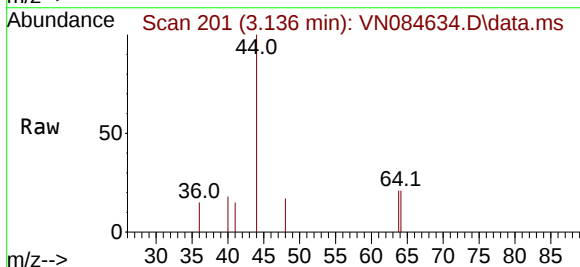
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

Tgt Ion: 94 Resp: 350  
Ion Ratio Lower Upper  
94 100  
96 75.3 72.9 109.3



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.136 min Scan# 201  
Delta R.T. 0.018 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

Tgt Ion: 64 Resp: 111  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#





#16

Acetone

Concen: Below Cal

RT: 4.447 min Scan# 41

Delta R.T. 0.023 min

Lab File: VN084634.D

Acq: 01 Nov 2024 13:20

Instrument :

MSVOA\_N

ClientSampleId :

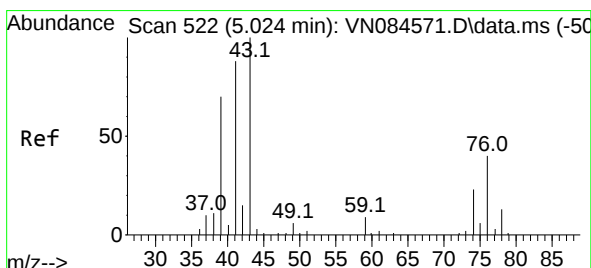
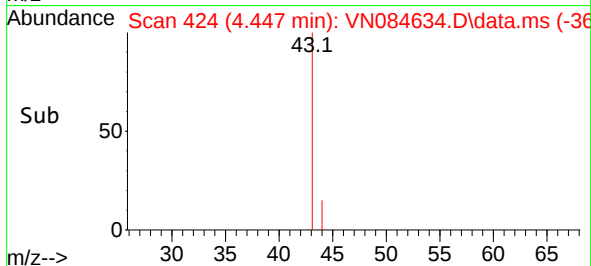
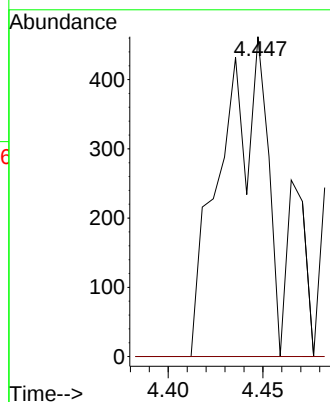
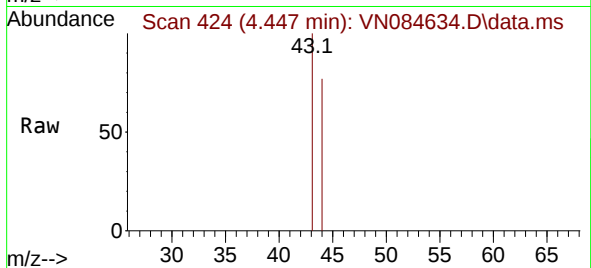
TB

Tgt Ion: 43 Resp: 758

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



#18

Methyl Acetate

Concen: Below Cal

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN084634.D

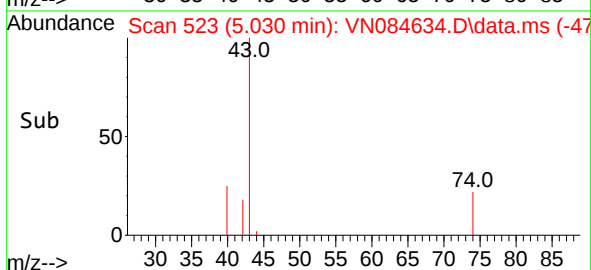
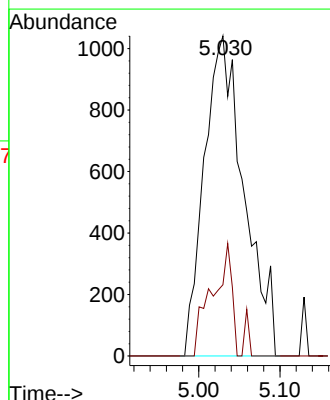
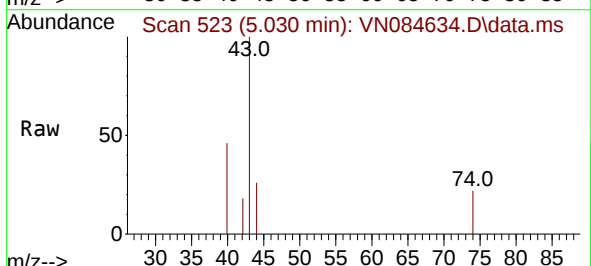
Acq: 01 Nov 2024 13:20

Tgt Ion: 43 Resp: 3540

Ion Ratio Lower Upper

43 100

74 17.6 19.2 28.8#

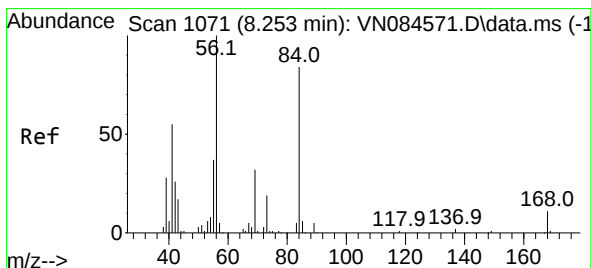
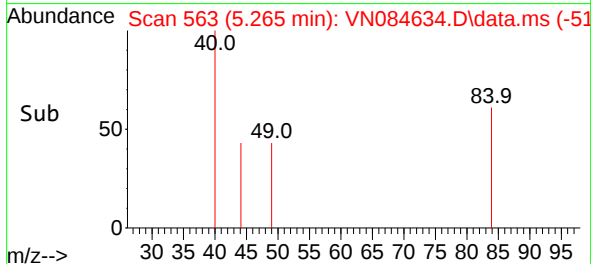
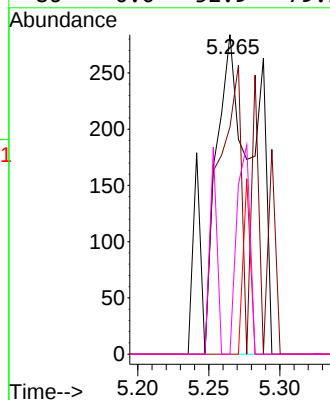
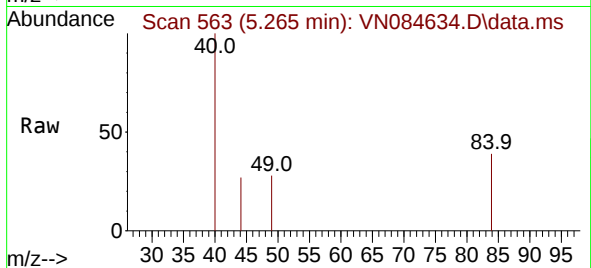




#20  
Methylene Chloride  
Concen: 0.257 ug/l  
RT: 5.265 min Scan# 51  
Delta R.T. -0.012 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

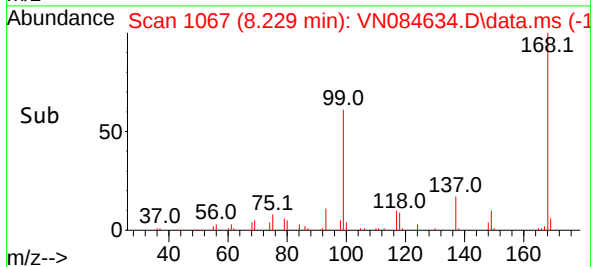
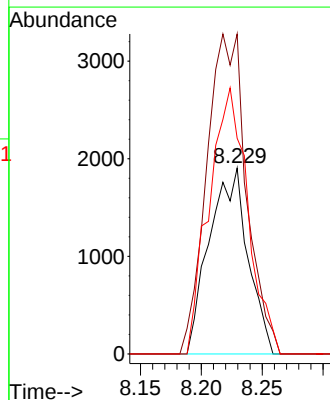
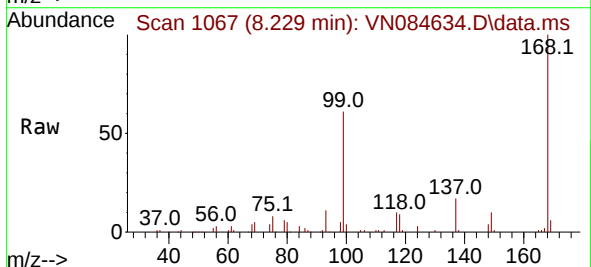
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

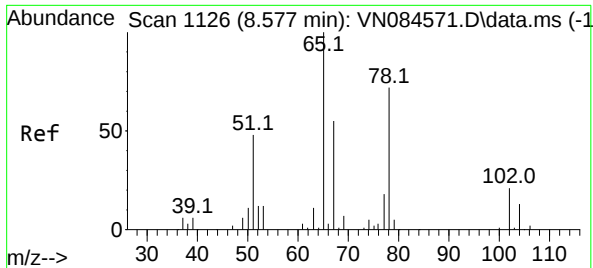
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 581    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 71.1  | 107.2 | 160.8# |
| 51       | 0.0   | 31.8  | 47.8#  |
| 86       | 0.0   | 52.9  | 79.3#  |



#31  
Cyclohexane  
Concen: 1.182 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.024 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 4189   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 172.1 | 23.8  | 35.6#  |
| 84       | 116.0 | 68.8  | 103.2# |





#33

1,2-Dichloroethane-d4

Concen: 50.651 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.001 min

Lab File: VN084634.D

Acq: 01 Nov 2024 13:20

Instrument :

MSVOA\_N

ClientSampleId :

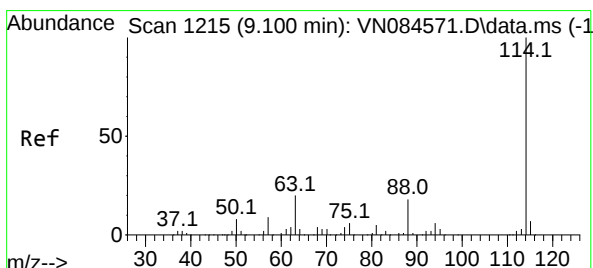
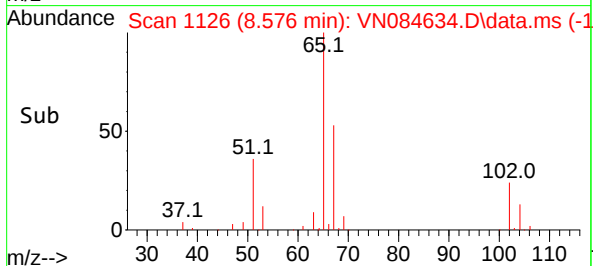
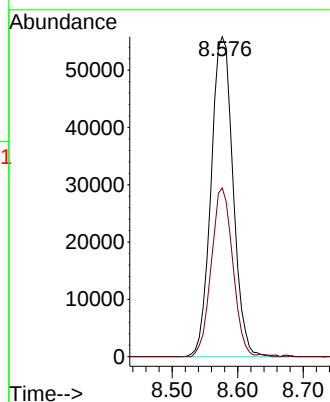
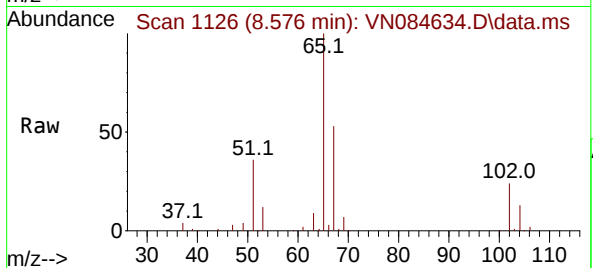
TB

Tgt Ion: 65 Resp: 130011

Ion Ratio Lower Upper

65 100

67 51.6 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084634.D

Acq: 01 Nov 2024 13:20

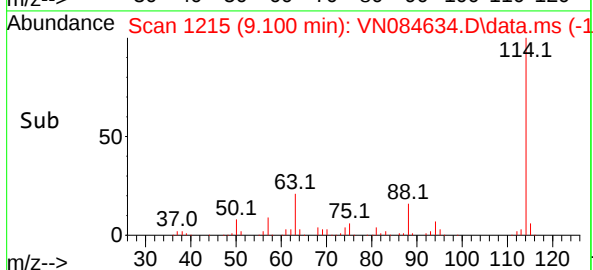
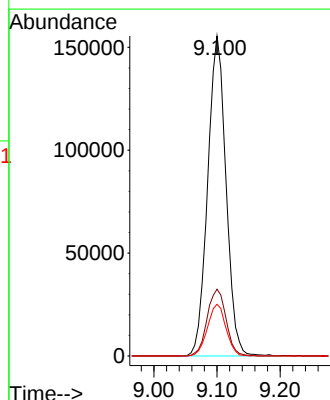
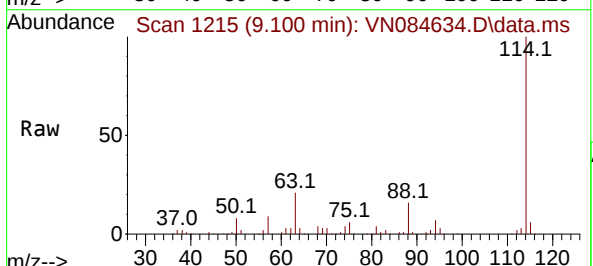
Tgt Ion: 114 Resp: 313388

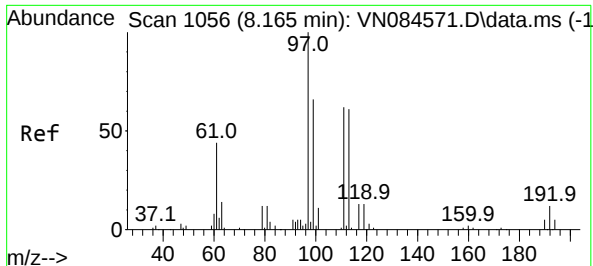
Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.8

88 16.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.334 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084634.D

Acq: 01 Nov 2024 13:20

Instrument :

MSVOA\_N

ClientSampleId :

TB

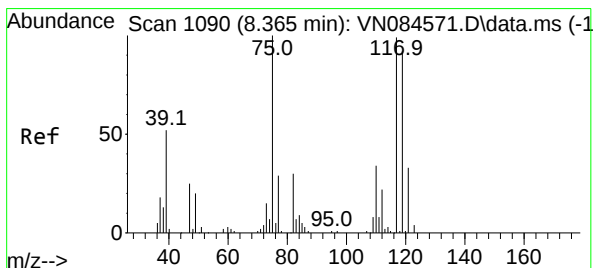
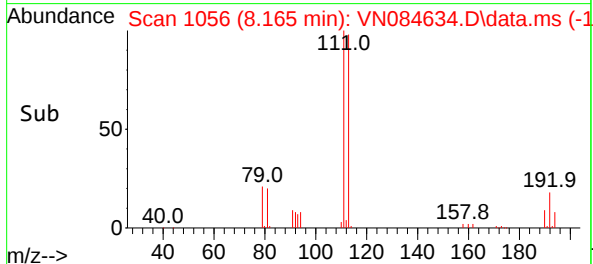
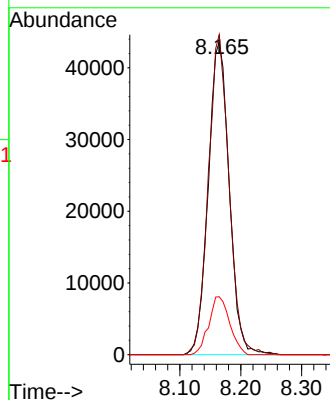
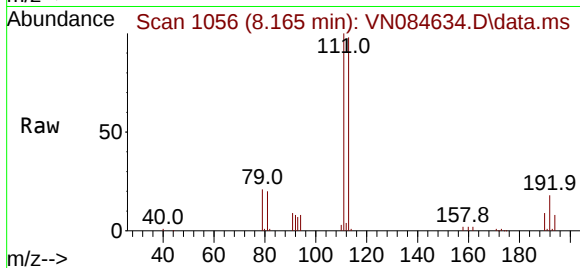
Tgt Ion:113 Resp: 104651

Ion Ratio Lower Upper

113 100

111 100.4 83.3 124.9

192 18.4 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.840 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084634.D

Acq: 01 Nov 2024 13:20

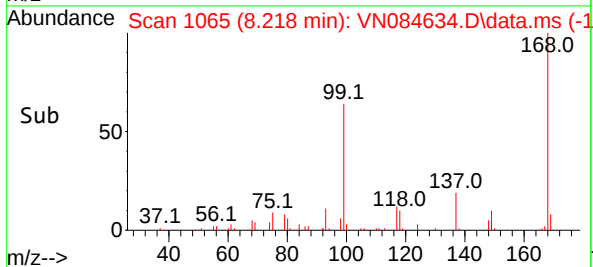
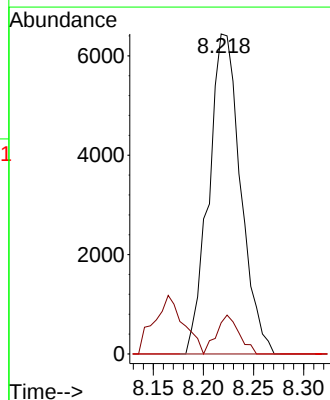
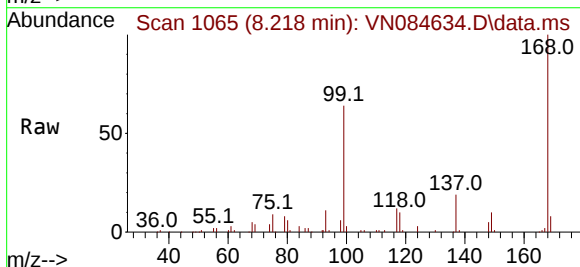
Tgt Ion: 75 Resp: 14238

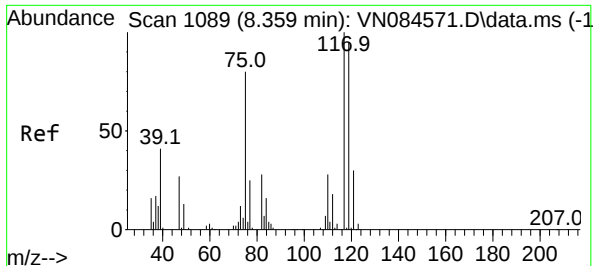
Ion Ratio Lower Upper

75 100

110 8.5 16.9 50.7#

77 0.0 24.7 37.1#

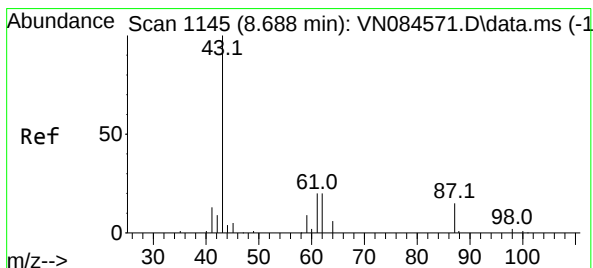
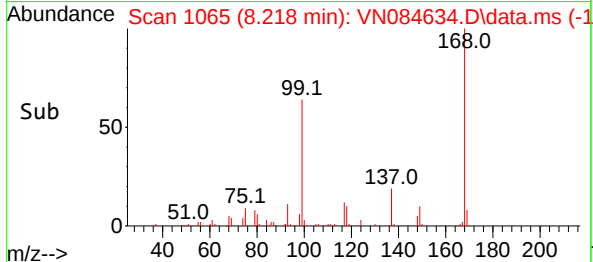
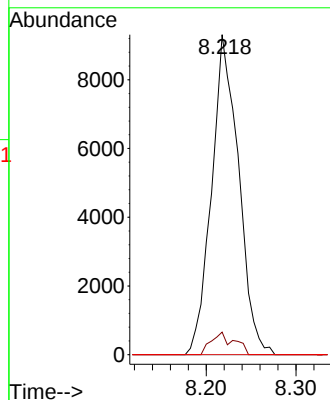
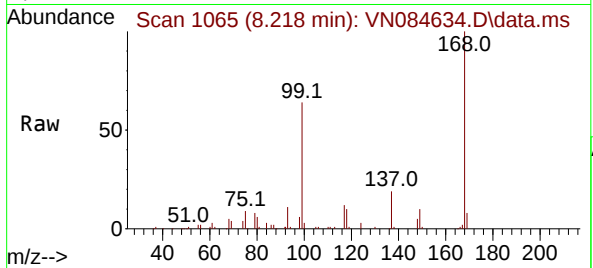




#38  
Carbon Tetrachloride  
Concen: 5.922 ug/l  
RT: 8.218 min Scan# 1105  
Delta R.T. -0.141 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

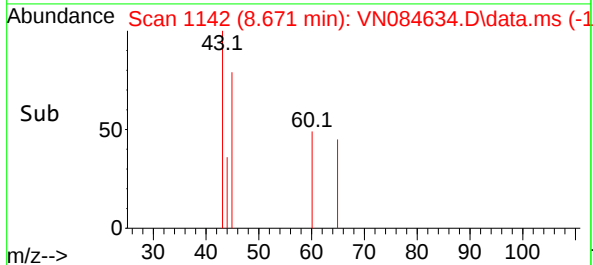
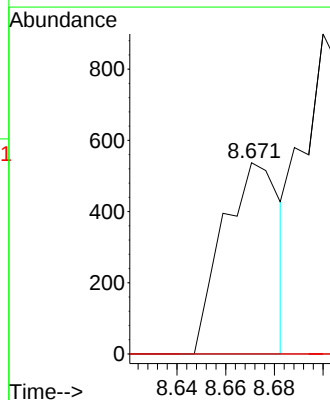
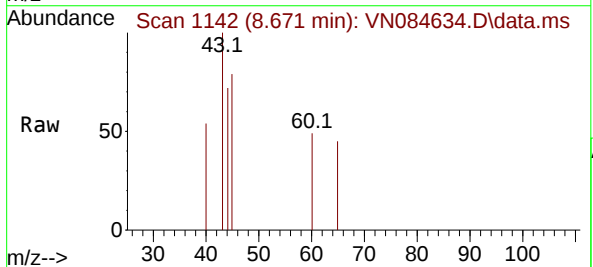
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

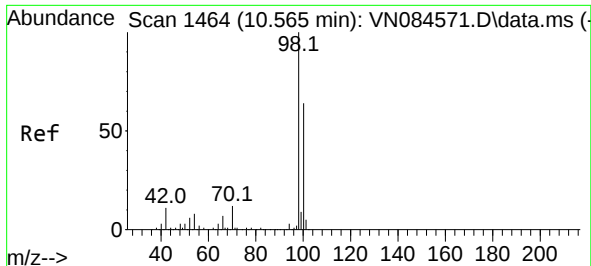
Tgt Ion:117 Resp: 19472  
Ion Ratio Lower Upper  
117 100  
119 7.0 78.7 118.1#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: Below Cal  
RT: 8.671 min Scan# 1142  
Delta R.T. -0.017 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

Tgt Ion: 43 Resp: 866  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 10.3 15.5#

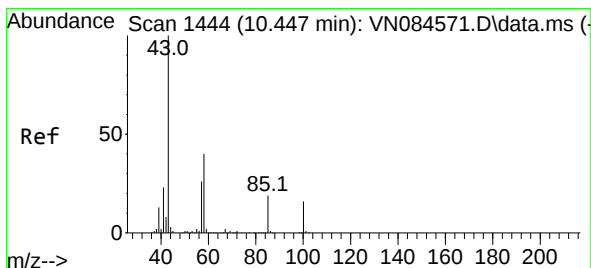
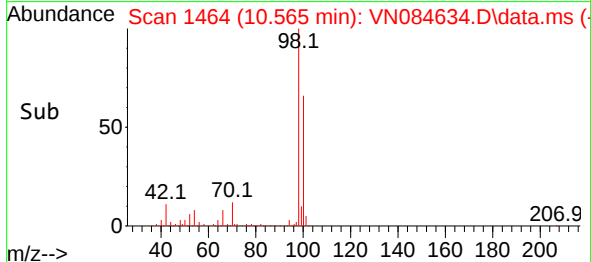
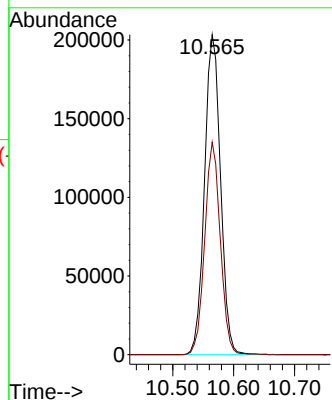
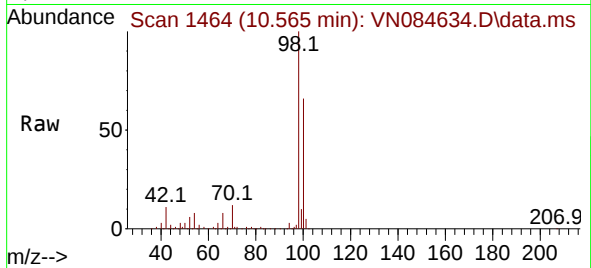




#50  
Toluene-d8  
Concen: 47.562 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

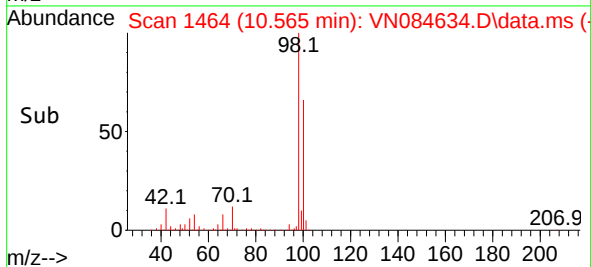
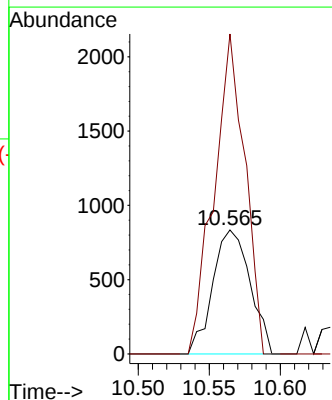
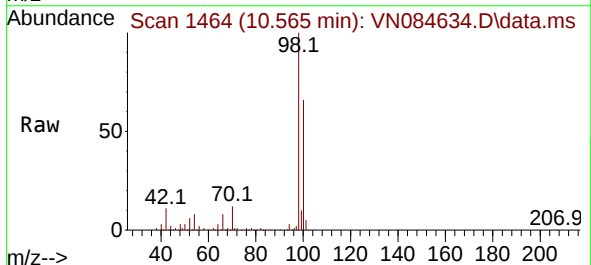
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

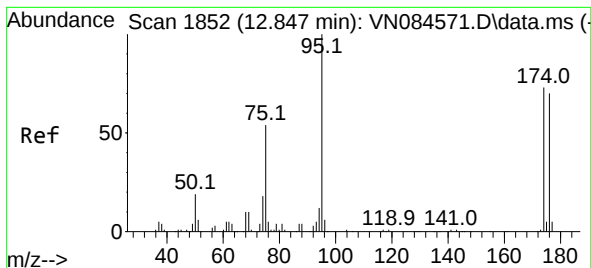
Tgt Ion: 98 Resp: 371650  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.7 79.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.599 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.123 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

Tgt Ion: 43 Resp: 1525  
Ion Ratio Lower Upper  
43 100  
58 213.6 31.6 47.4#

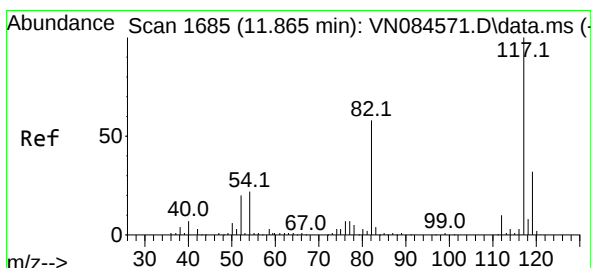
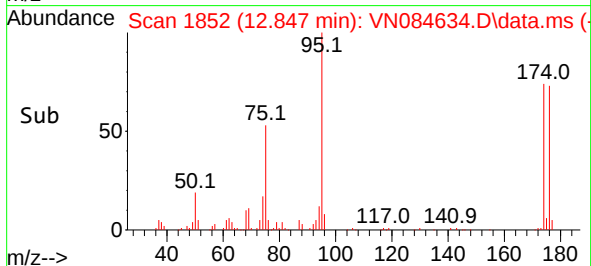
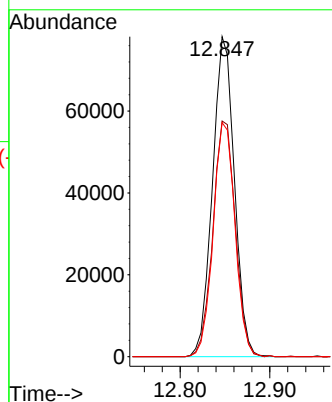
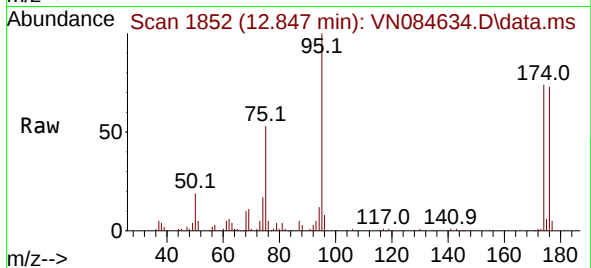




#62  
4-Bromofluorobenzene  
Concen: 45.339 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

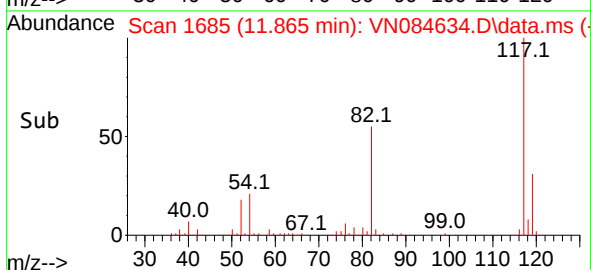
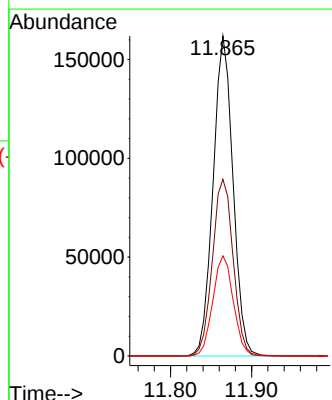
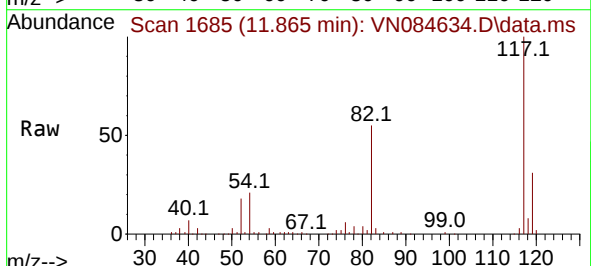
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

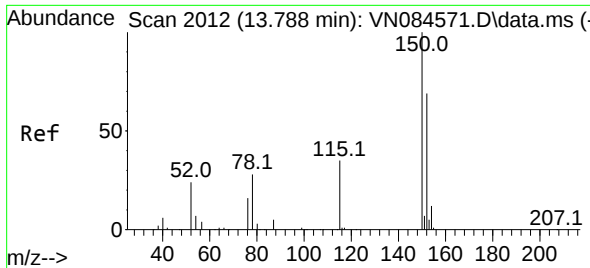
Tgt Ion: 95 Resp: 132405  
Ion Ratio Lower Upper  
95 100  
174 75.6 0.0 145.2  
176 73.0 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.001 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

Tgt Ion: 117 Resp: 275782  
Ion Ratio Lower Upper  
117 100  
82 55.2 47.2 70.8  
119 31.3 25.4 38.0

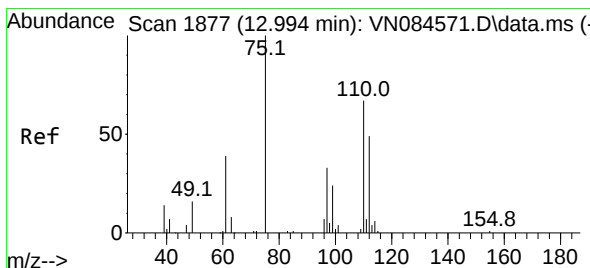
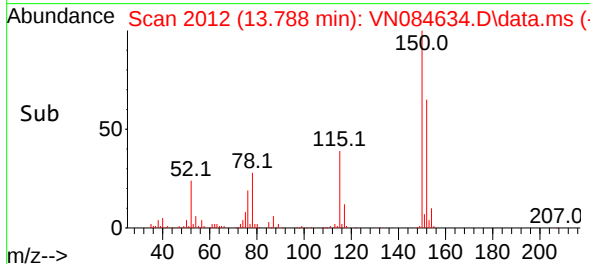
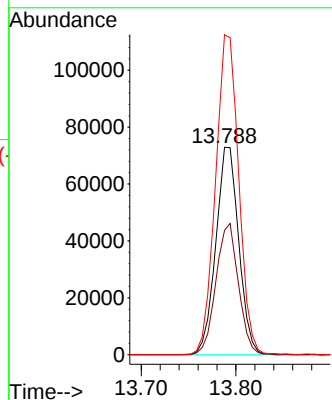
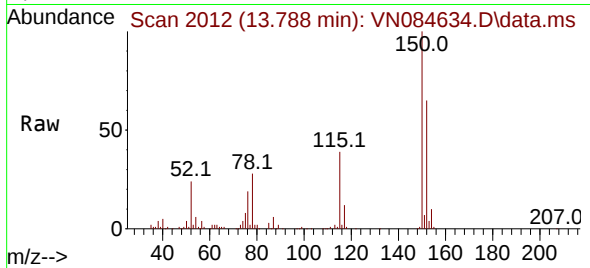




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. -0.000 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

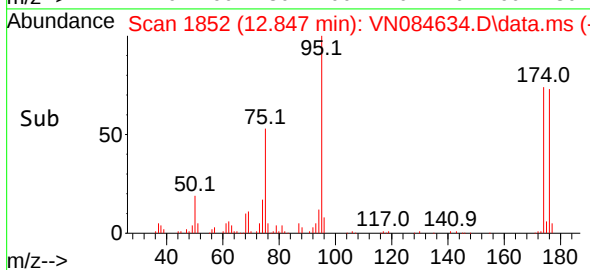
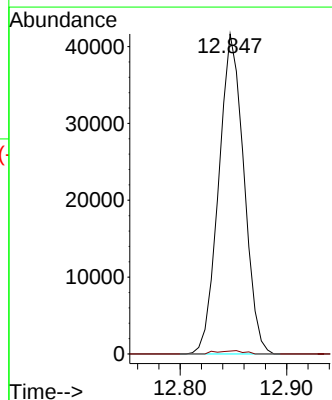
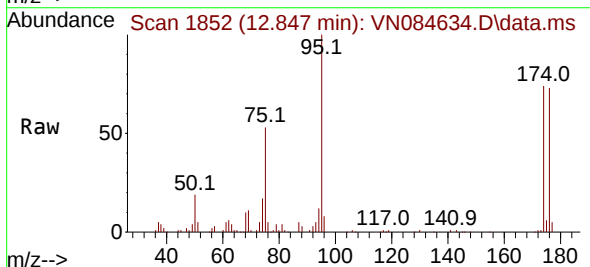
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

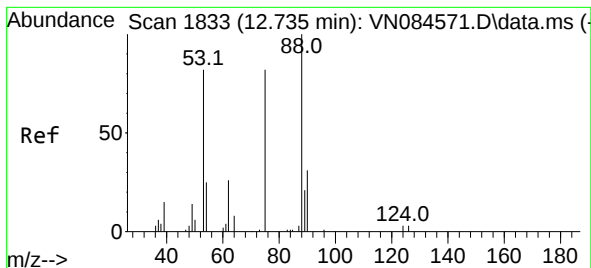
Tgt Ion:152 Resp: 122691  
Ion Ratio Lower Upper  
152 100  
115 62.0 31.3 93.9  
150 156.3 0.0 349.8



#76  
1,2,3-Trichloropropane  
Concen: 27.815 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.141 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

Tgt Ion: 75 Resp: 68218  
Ion Ratio Lower Upper  
75 100  
77 1.1 96.9 290.7#

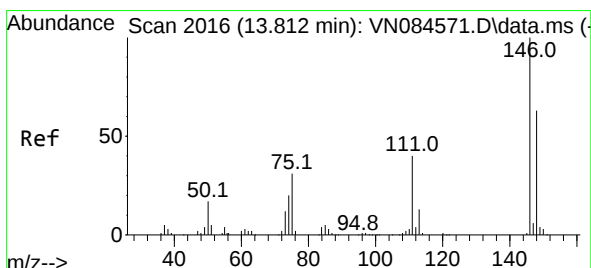
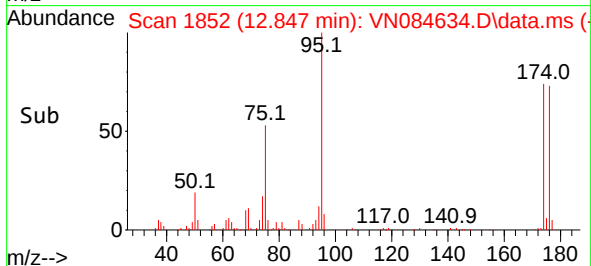
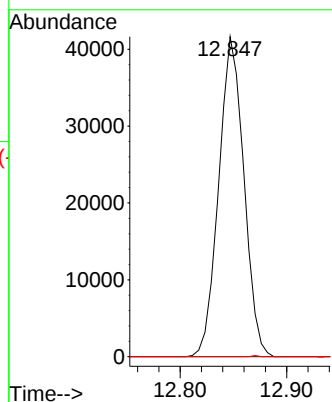
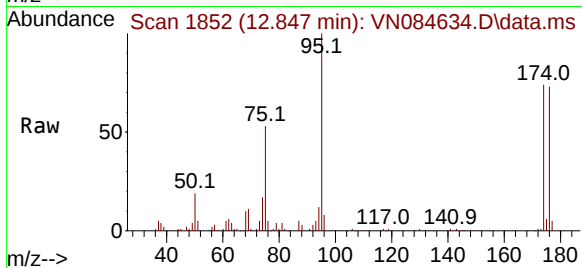




#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.989 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

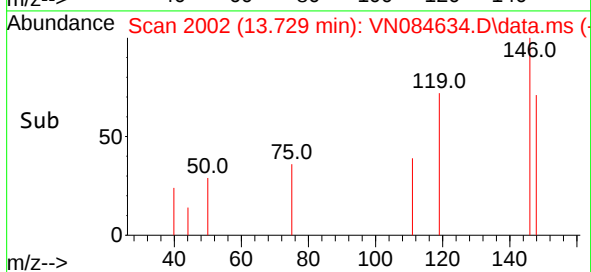
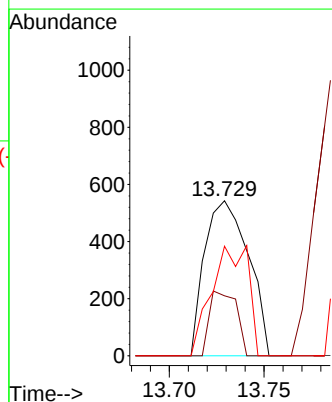
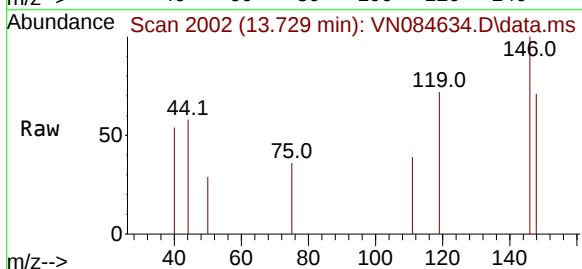
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

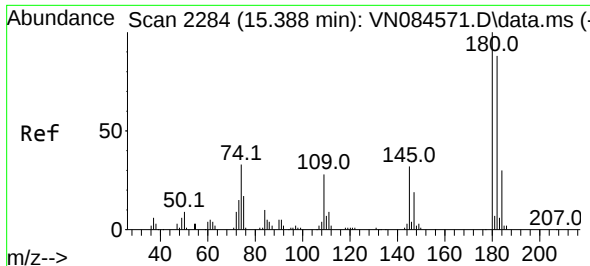
Tgt Ion: 75 Resp: 68218  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 35.5 53.3#



#88  
1,4-Dichlorobenzene  
Concen: Below Cal  
RT: 13.729 min Scan# 2002  
Delta R.T. -0.083 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

Tgt Ion:146 Resp: 875  
Ion Ratio Lower Upper  
146 100  
111 25.6 21.2 63.6  
148 59.3 31.9 95.9

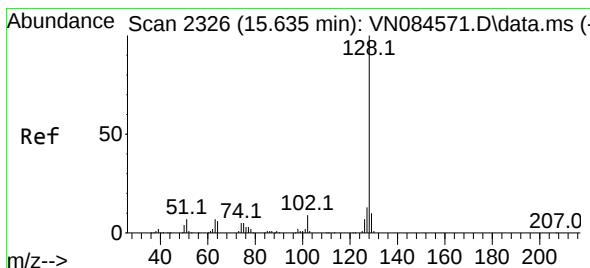
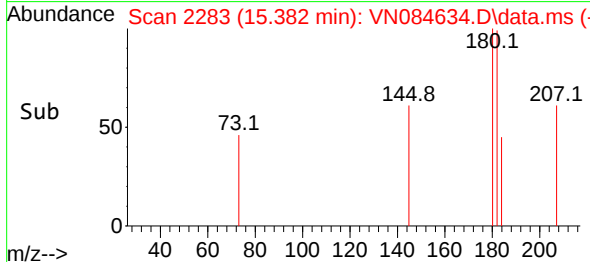
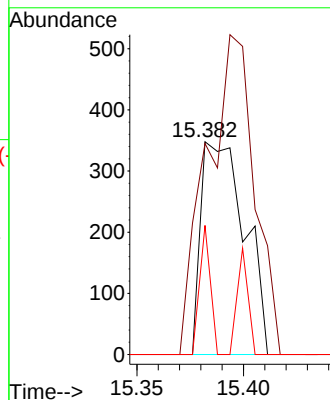
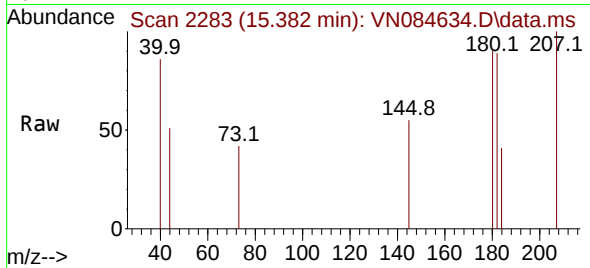




#93  
1,2,4-Trichlorobenzene  
Concen: 0.210 ug/l  
RT: 15.382 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

Tgt Ion:180 Resp: 498  
Ion Ratio Lower Upper  
180 100  
182 0.0 47.0 141.0#  
145 14.9 16.4 49.4#



#95  
Naphthalene  
Concen: 0.247 ug/l  
RT: 15.647 min Scan# 2328  
Delta R.T. 0.012 min  
Lab File: VN084634.D  
Acq: 01 Nov 2024 13:20

Tgt Ion:128 Resp: 1753  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 4.2 8.7 13.1#

