

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090524\  
 Data File : VN083674.D  
 Acq On : 05 Sep 2024 14:39  
 Operator : JC\MD  
 Sample : P3802-08  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 06 02:17:42 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083024W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 31 00:48:10 2024  
 Response via : Initial Calibration

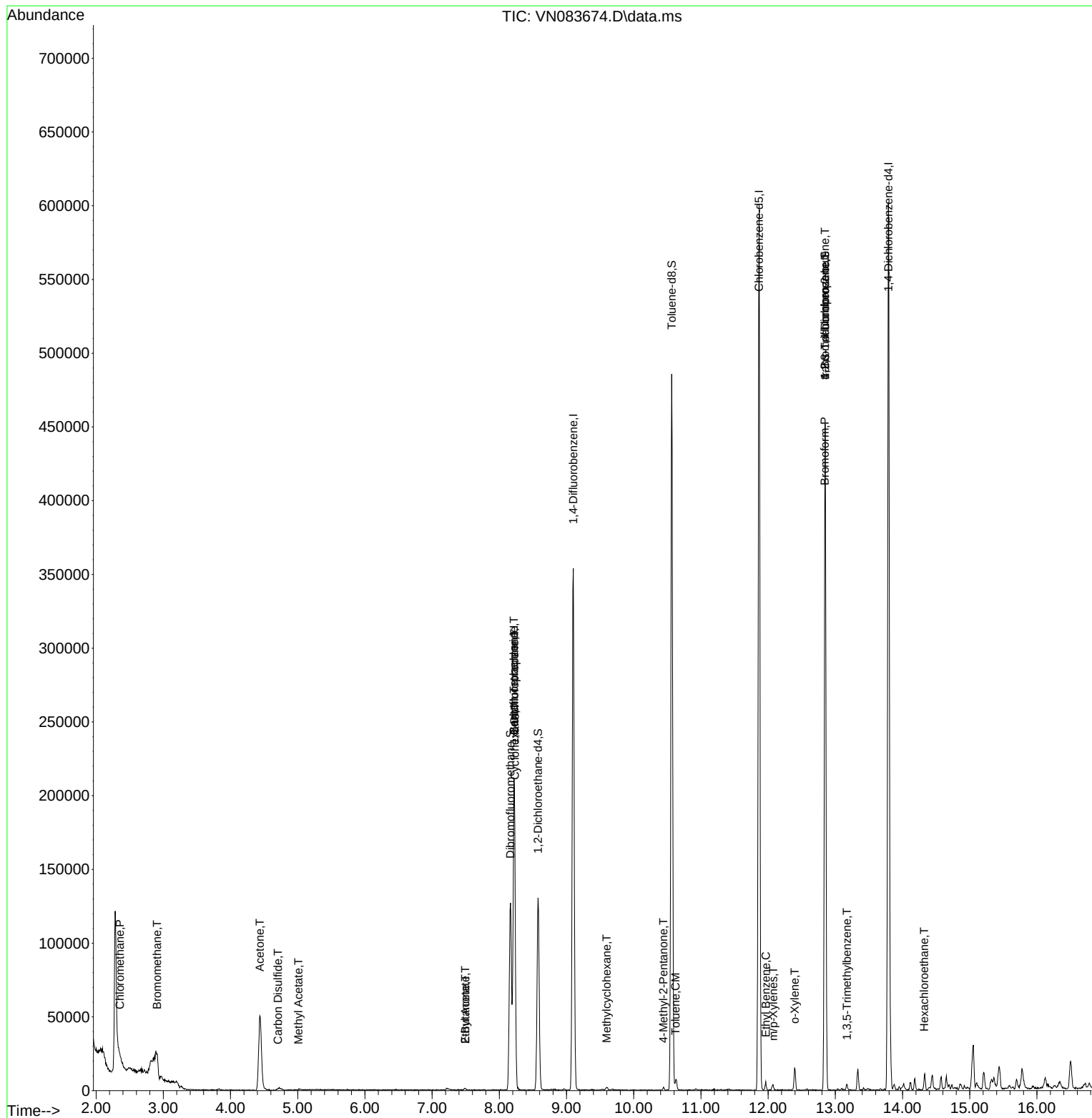
| Compound                      | R.T.   | QIon           | Response | Conc        | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|-------------|--------|----------|
| -----                         |        |                |          |             |        |          |
| Internal Standards            |        |                |          |             |        |          |
| 1) Pentafluorobenzene         | 8.218  | 168            | 145180   | 50.000      | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114            | 291828   | 50.000      | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117            | 317929   | 50.000      | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152            | 155604   | 50.000      | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |             |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65             | 112169   | 55.282      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 110.560%  |        |          |
| 35) Dibromofluoromethane      | 8.165  | 113            | 90719    | 51.649      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 103.300%  |        |          |
| 50) Toluene-d8                | 10.565 | 98             | 321197   | 46.976      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 93.960%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95             | 155785   | 61.483      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 77 - 121 | Recovery | = 122.960%# |        |          |
| Target Compounds              |        |                |          |             |        |          |
|                               |        |                |          |             | Qvalue |          |
| 3) Chloromethane              | 2.354  | 50             | 1630     | 0.911       | ug/l # | 41       |
| 5) Bromomethane               | 2.907  | 94             | 341      | 0.362       | ug/l # | 71       |
| 16) Acetone                   | 4.436  | 43             | 12020    | 14.855      | ug/l   | 98       |
| 17) Carbon Disulfide          | 4.706  | 76             | 1265     | 0.273       | ug/l # | 75       |
| 18) Methyl Acetate            | 5.012  | 43             | 474      | 0.220       | ug/l # | 52       |
| 25) 2-Butanone                | 7.494  | 43             | 1907     | 1.731       | ug/l # | 90       |
| 31) Cyclohexane               | 8.230  | 56             | 4161     | 1.326       | ug/l # | 51       |
| 36) 1,1-Dichloropropene       | 8.224  | 75             | 13127    | 4.900       | ug/l # | 51       |
| 37) Ethyl Acetate             | 7.494  | 43             | 1907     | 0.715       | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 8.218  | 117            | 16894    | 5.527       | ug/l # | 16       |
| 39) Methylcyclohexane         | 9.594  | 83             | 1107     | 0.344       | ug/l   | 90       |
| 43) Isopropyl Acetate         | 8.706  | 43             | 138      | Below Cal   | #      | 57       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43             | 1306     | 0.527       | ug/l   | 92       |
| 52) Toluene                   | 10.624 | 92             | 3096     | 0.601       | ug/l   | 88       |
| 67) Ethyl Benzene             | 11.965 | 91             | 3631     | 0.285       | ug/l # | 76       |
| 68) m/p-Xylenes               | 12.076 | 106            | 1435     | 0.299       | ug/l   | 99       |
| 69) o-Xylene                  | 12.394 | 106            | 3990     | 0.861       | ug/l   | 99       |
| 71) Bromoform                 | 12.841 | 173            | 898      | 0.524       | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75             | 87335    | 27.799      | ug/l # | 1        |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105            | 2451     | 0.231       | ug/l   | 87       |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75             | 87335    | 65.567      | ug/l # | 9        |
| 90) Hexachloroethane          | 14.323 | 117            | 512      | 0.251       | ug/l # | 17       |
| -----                         |        |                |          |             |        |          |

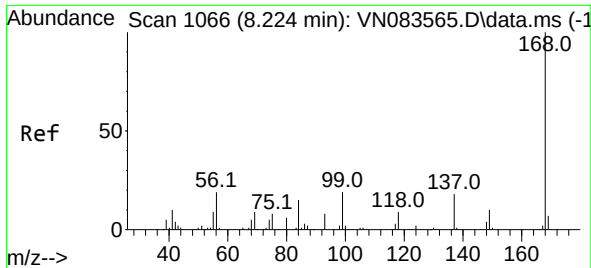
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090524\  
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Quant Time: Sep 06 02:17:42 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083024W.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 31 00:48:10 2024  
Response via : Initial Calibration

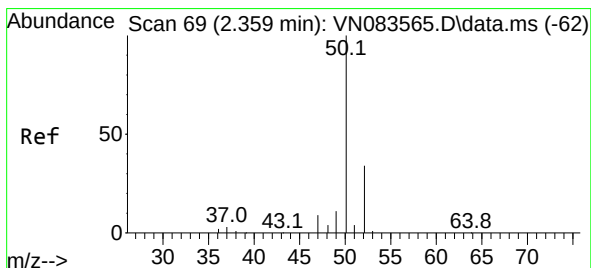
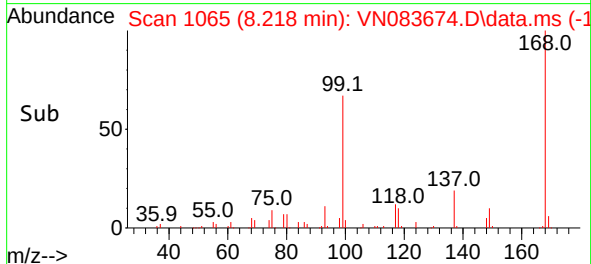
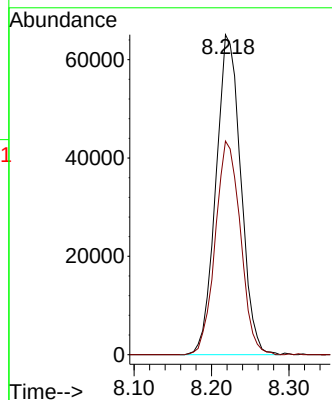
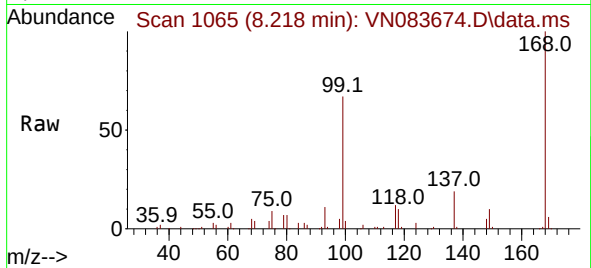




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

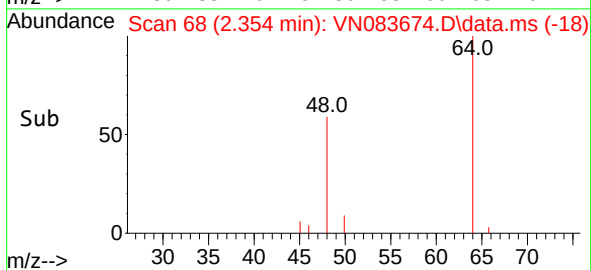
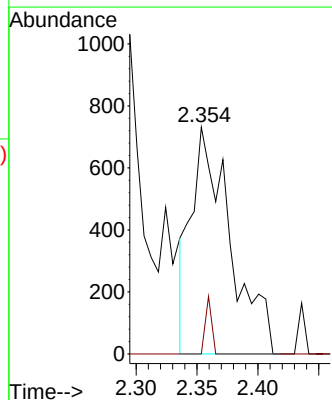
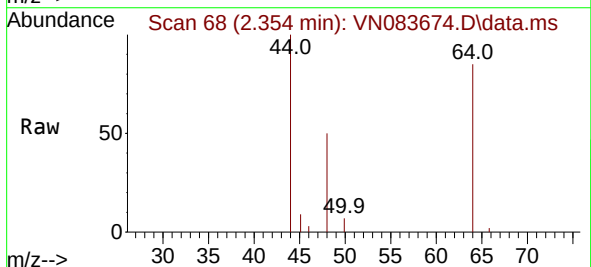
Instrument :  
MSVOA\_N  
ClientSampleId :

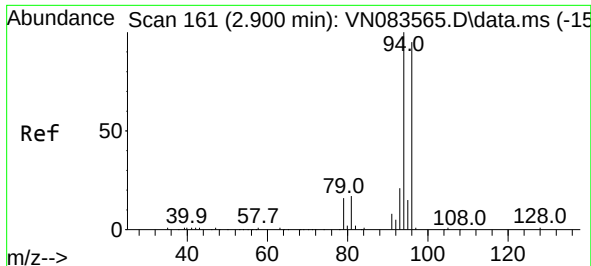
Tgt Ion:168 Resp: 145180  
Ion Ratio Lower Upper  
168 100  
99 66.8 54.2 81.2



#3  
Chloromethane  
Concen: 0.911 ug/l  
RT: 2.354 min Scan# 68  
Delta R.T. -0.006 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion: 50 Resp: 1630  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#

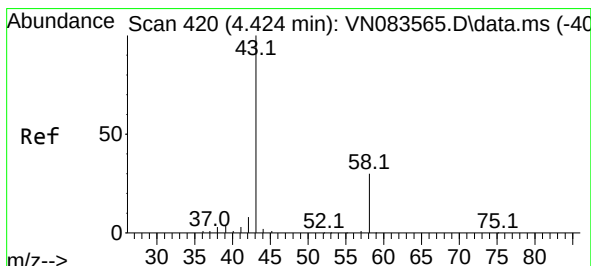
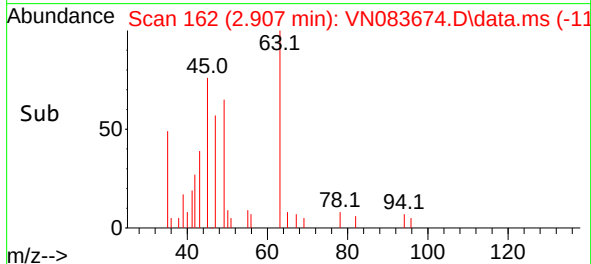
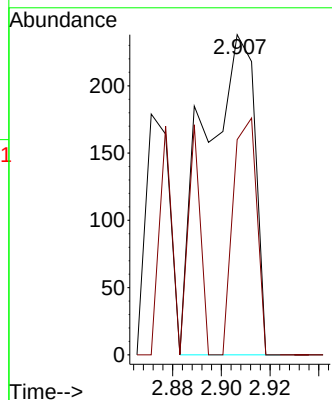
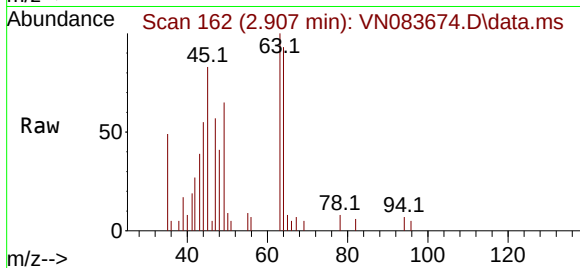




#5  
Bromomethane  
Concen: 0.362 ug/l  
RT: 2.907 min Scan# 1  
Delta R.T. 0.006 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

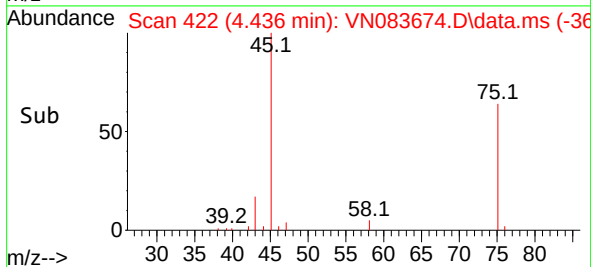
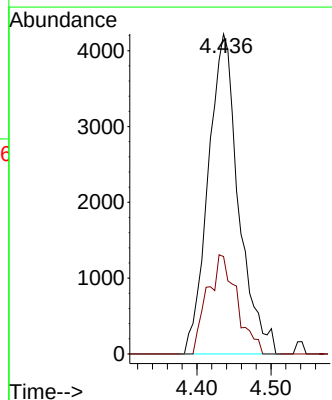
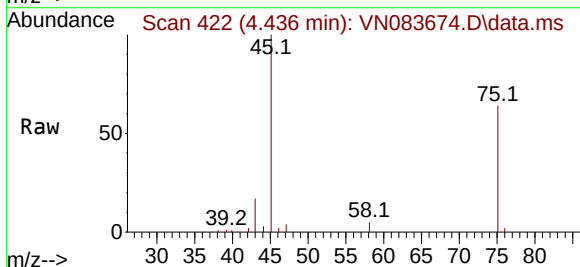
Instrument :  
MSVOA\_N  
ClientSampleId :

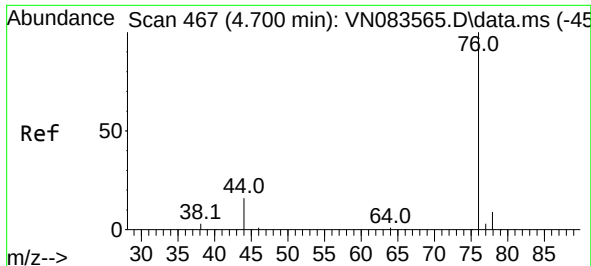
Tgt Ion: 94 Resp: 341  
Ion Ratio Lower Upper  
94 100  
96 67.2 76.0 114.0#



#16  
Acetone  
Concen: 14.855 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.012 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

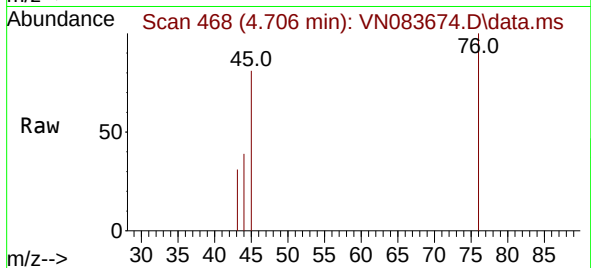
Tgt Ion: 43 Resp: 12020  
Ion Ratio Lower Upper  
43 100  
58 30.5 23.7 35.5



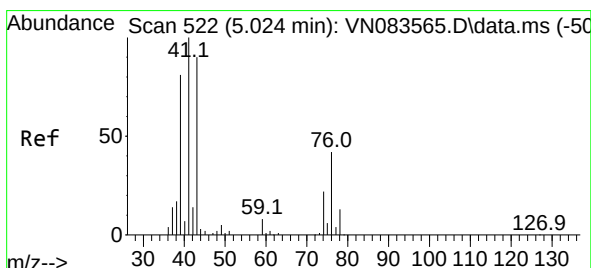
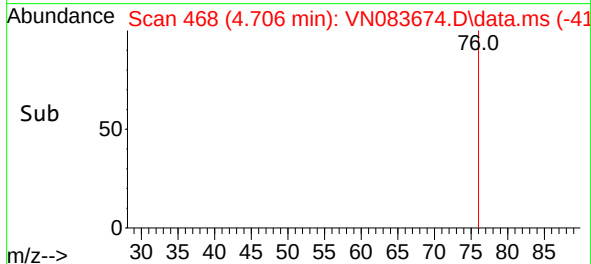
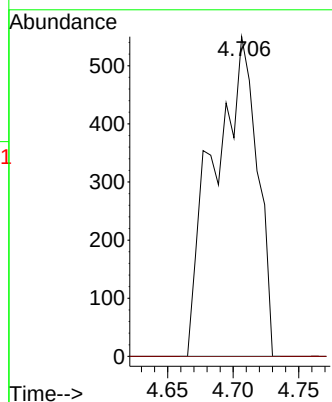


#17  
Carbon Disulfide  
Concen: 0.273 ug/l  
RT: 4.706 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Instrument :  
MSVOA\_N  
ClientSampleId :

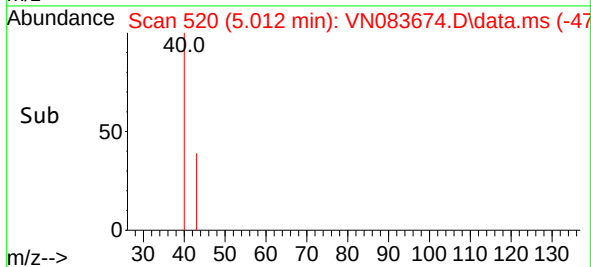
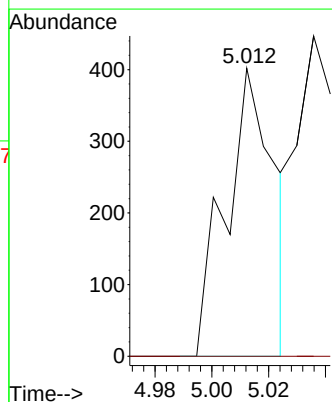
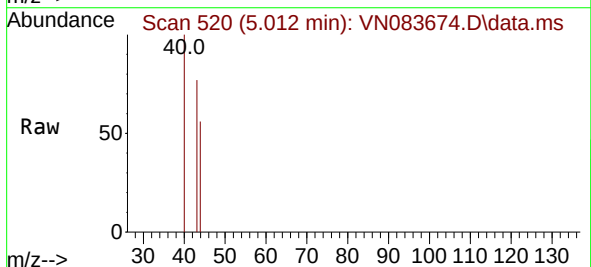


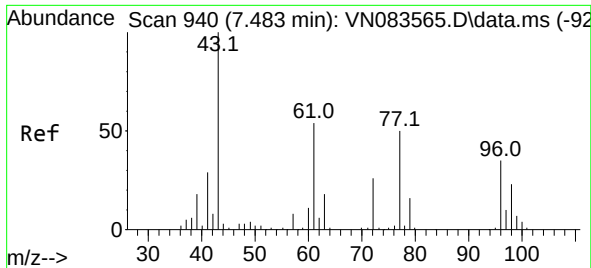
Tgt Ion: 76 Resp: 1265  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.1 10.7#



#18  
Methyl Acetate  
Concen: 0.220 ug/l  
RT: 5.012 min Scan# 520  
Delta R.T. -0.012 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion: 43 Resp: 474  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.0 28.4#

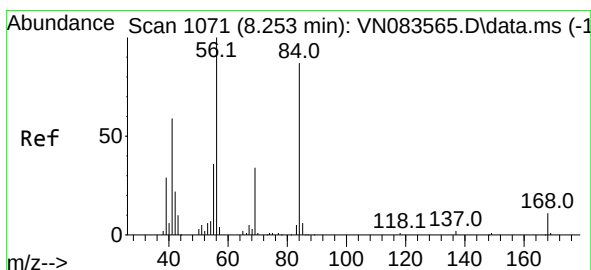
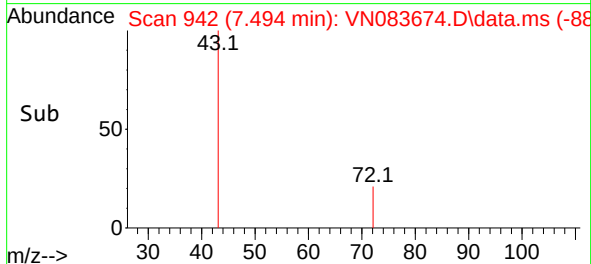
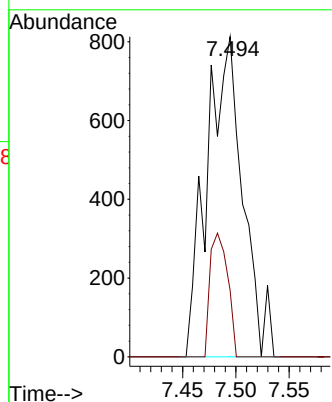
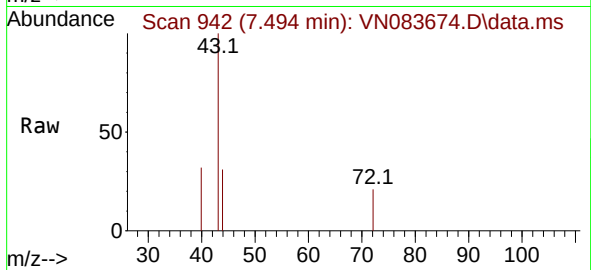




#25  
2-Butanone  
Concen: 1.731 ug/l  
RT: 7.494 min Scan# 94  
Delta R.T. 0.012 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

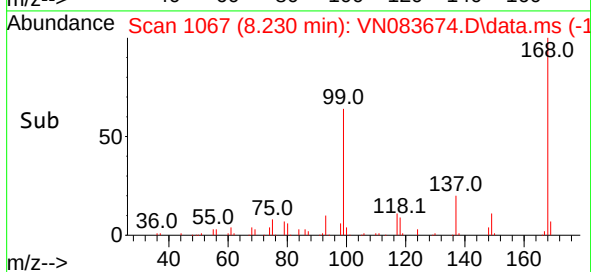
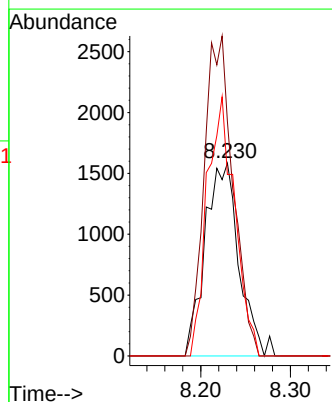
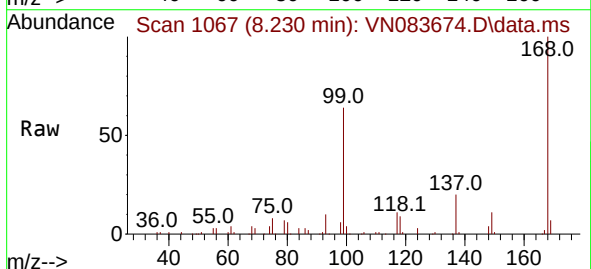
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MSVOA\_N  
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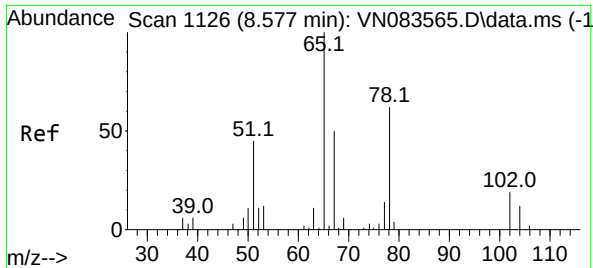
Tgt Ion: 43 Resp: 1907  
Ion Ratio Lower Upper  
43 100  
72 20.8 20.8 31.2#



#31  
Cyclohexane  
Concen: 1.326 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.023 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion: 56 Resp: 4161  
Ion Ratio Lower Upper  
56 100  
69 121.7 26.9 40.3#  
84 94.1 69.2 103.8





#33

1,2-Dichloroethane-d4

Concen: 55.282 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083674.D

Acq: 05 Sep 2024 14:39

Instrument :

MSVOA\_N

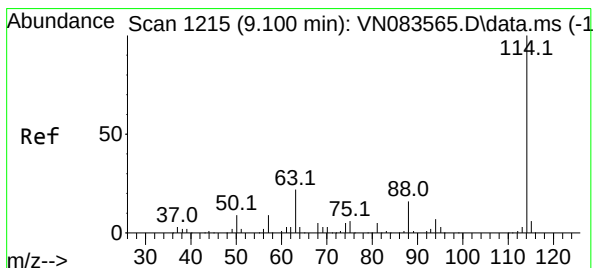
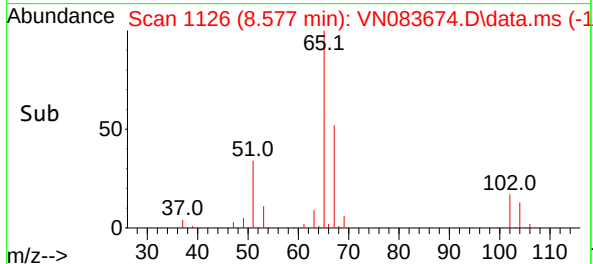
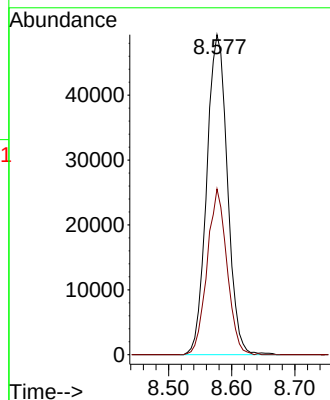
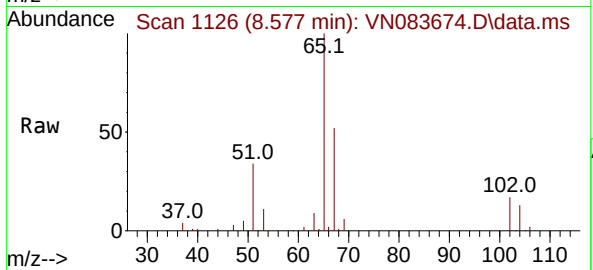
ClientSampleId :

Tgt Ion: 65 Resp: 112169

Ion Ratio Lower Upper

65 100

67 49.6 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: VN083674.D

Acq: 05 Sep 2024 14:39

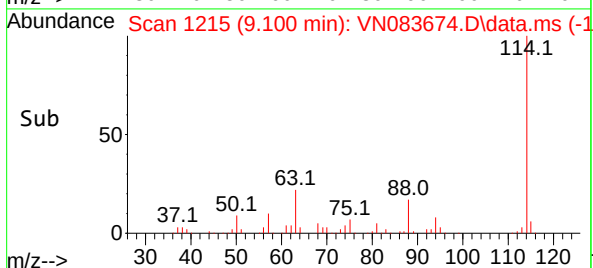
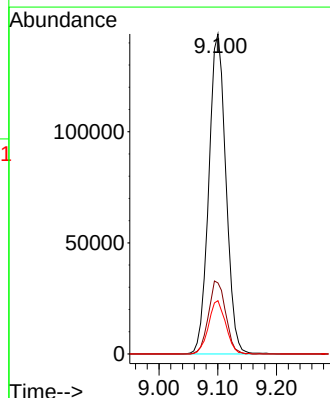
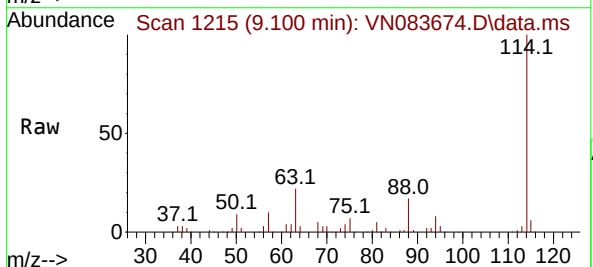
Tgt Ion: 114 Resp: 291828

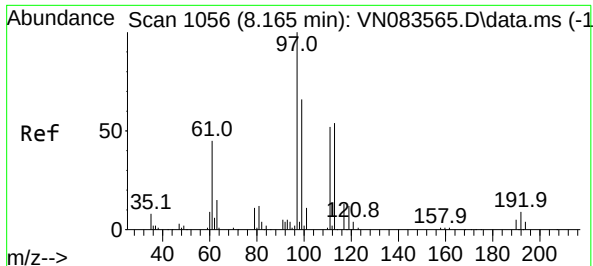
Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.4

88 16.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.649 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083674.D

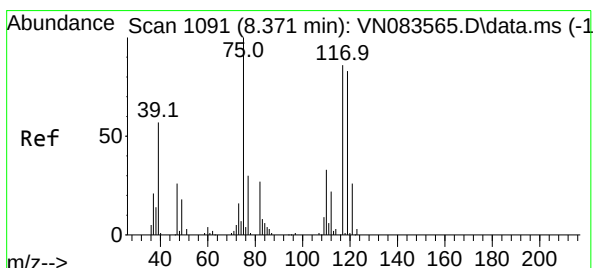
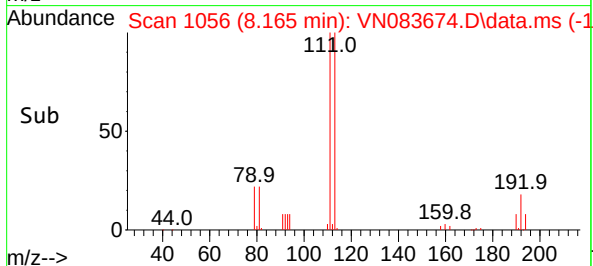
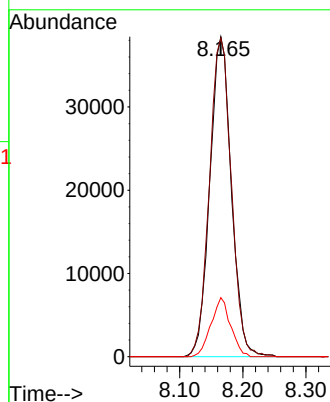
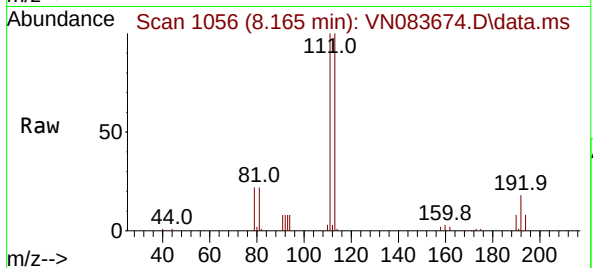
Acq: 05 Sep 2024 14:39

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 90719 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 101.6 | 82.6  | 124.0 |
| 192      | 16.8  | 14.3  | 21.5  |



#36

1,1-Dichloropropene

Concen: 4.900 ug/l

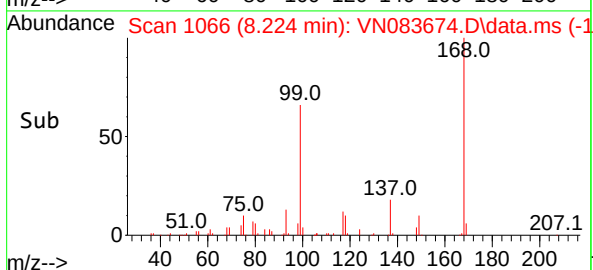
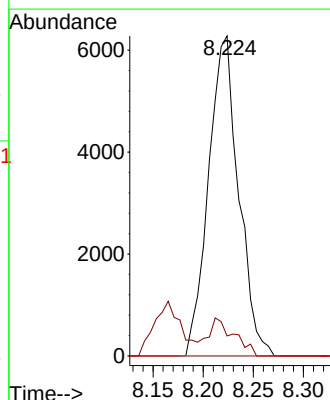
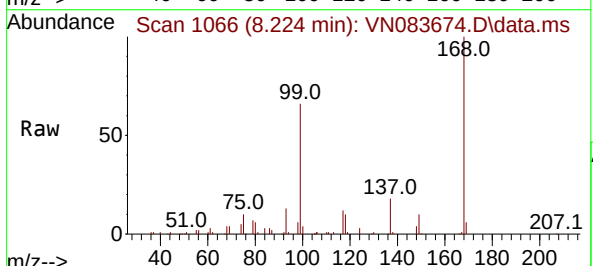
RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

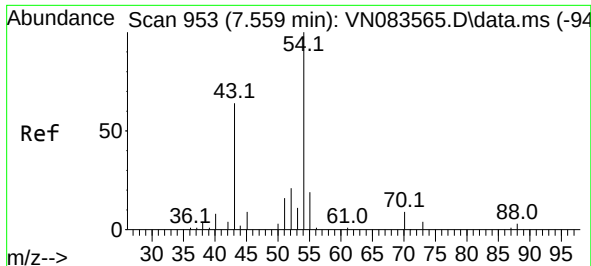
Lab File: VN083674.D

Acq: 05 Sep 2024 14:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 13127 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 10.2  | 16.7  | 50.1# |
| 77       | 0.0   | 25.2  | 37.8# |

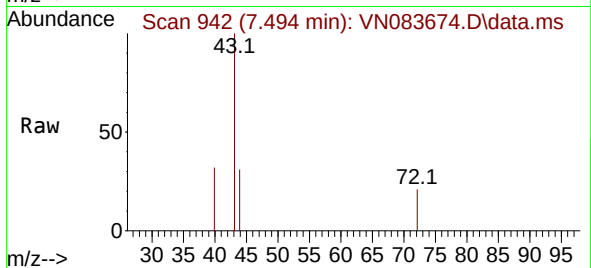




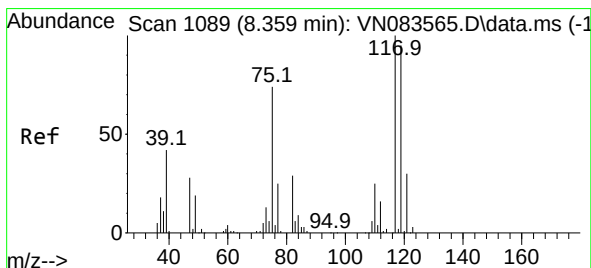
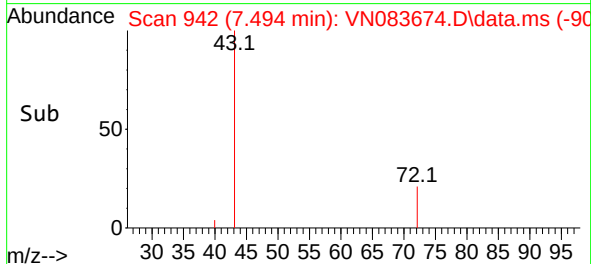
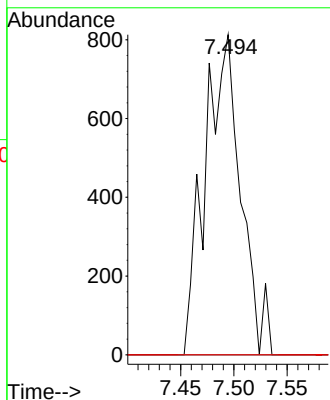


#37  
Ethyl Acetate  
Concen: 0.715 ug/l  
RT: 7.494 min Scan# 94  
Delta R.T. -0.065 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Instrument :  
MSVOA\_N  
ClientSampleId :

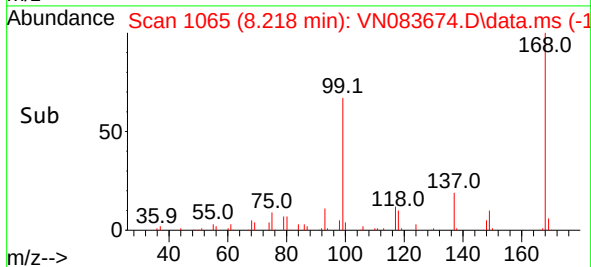
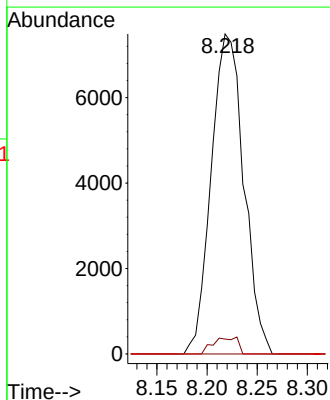
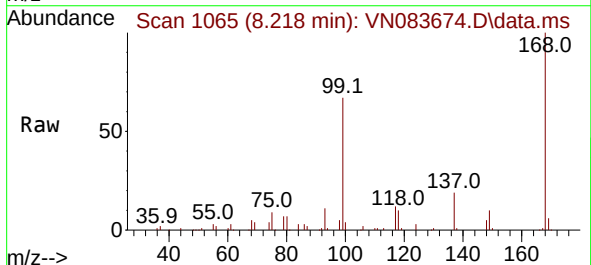


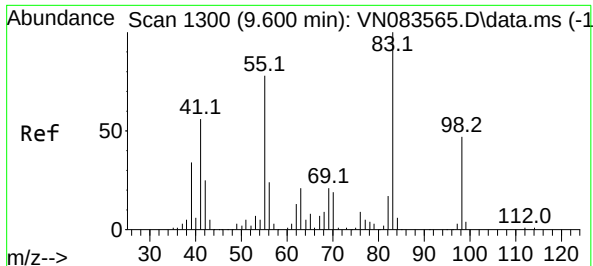
Tgt Ion: 43 Resp: 1907  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.1 16.7#  
70 0.0 8.8 13.2#



#38  
Carbon Tetrachloride  
Concen: 5.527 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.141 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion: 117 Resp: 16894  
Ion Ratio Lower Upper  
117 100  
119 4.6 76.1 114.1#  
121 0.0 24.1 36.1#





#39

Methylcyclohexane

Concen: 0.344 ug/l

RT: 9.594 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VN083674.D

Acq: 05 Sep 2024 14:39

Instrument :

MSVOA\_N

ClientSampleId :

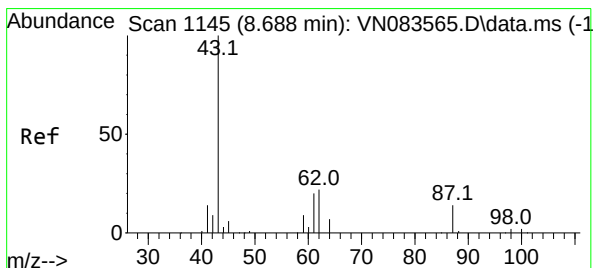
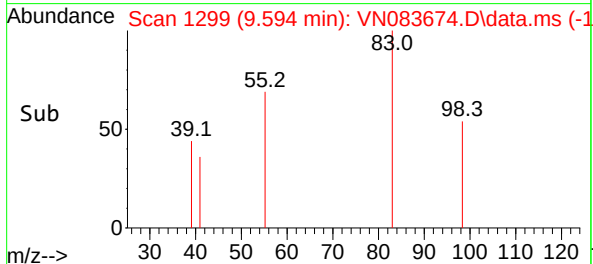
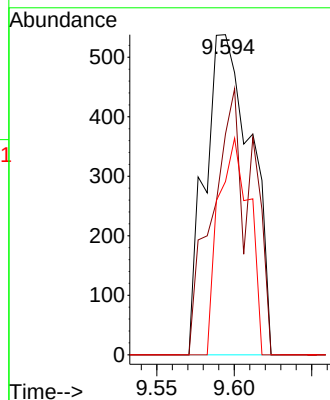
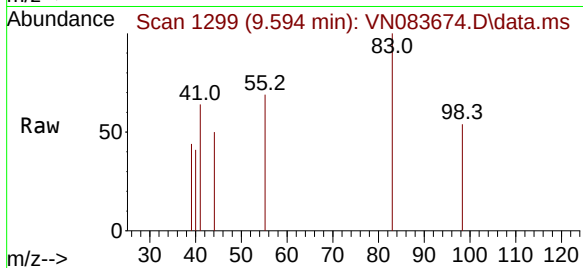
Tgt Ion: 83 Resp: 1107

Ion Ratio Lower Upper

83 100

55 69.0 62.2 93.4

98 54.1 37.6 56.4



#43

Isopropyl Acetate

Concen: Below Cal

RT: 8.706 min Scan# 1148

Delta R.T. 0.018 min

Lab File: VN083674.D

Acq: 05 Sep 2024 14:39

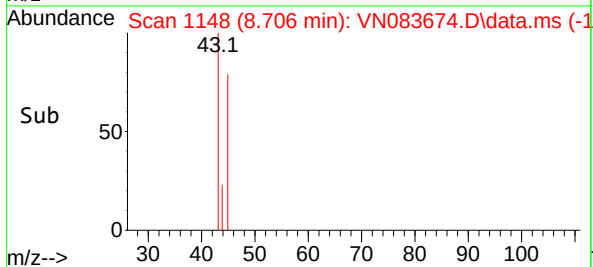
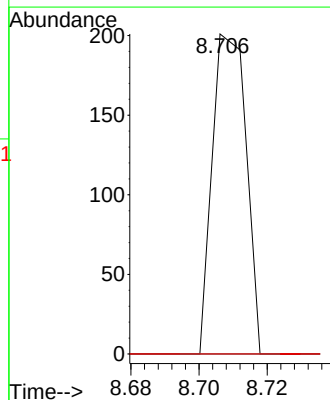
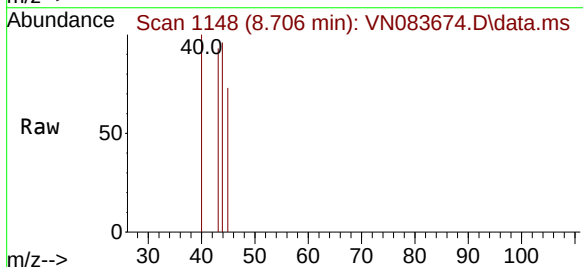
Tgt Ion: 43 Resp: 138

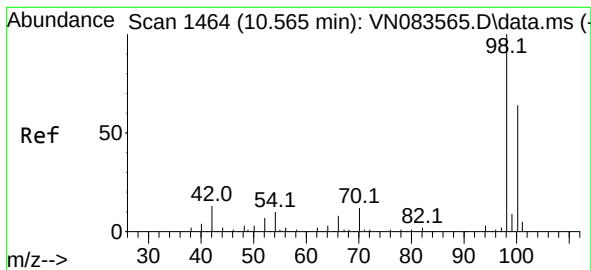
Ion Ratio Lower Upper

43 100

61 0.0 19.4 29.0#

87 0.0 9.8 14.6#

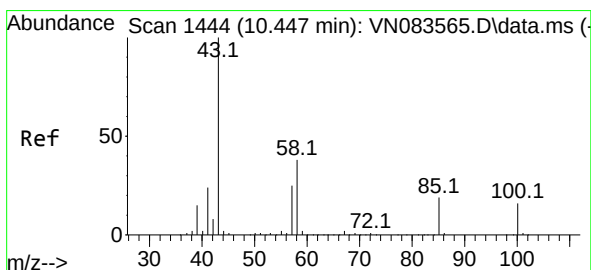
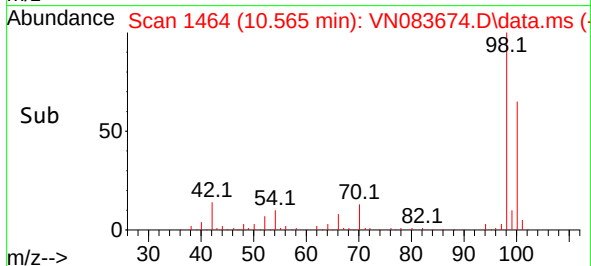
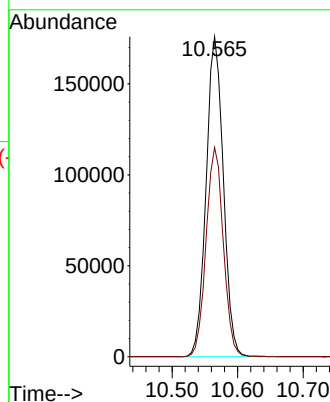
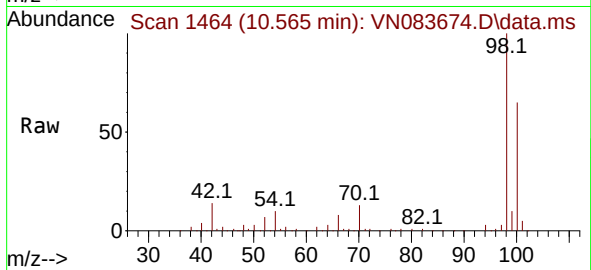




#50  
Toluene-d8  
Concen: 46.976 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

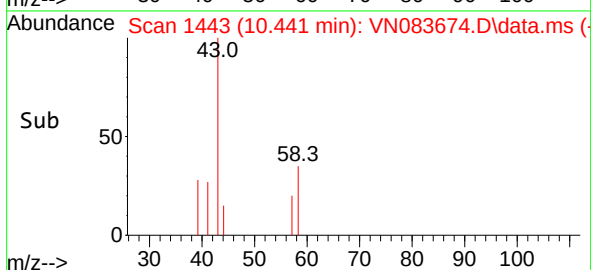
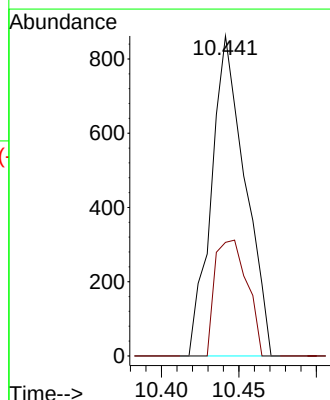
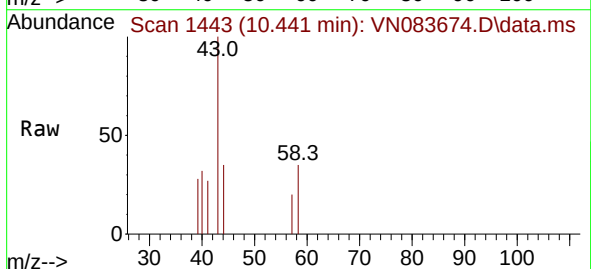
Instrument :  
MSVOA\_N  
ClientSampleId :

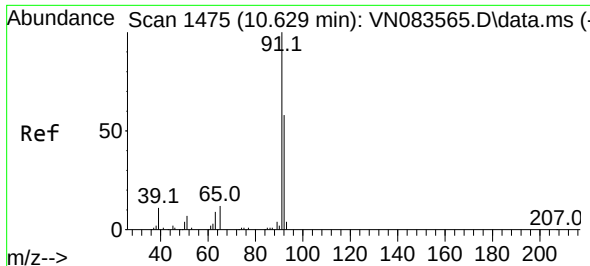
Tgt Ion: 98 Resp: 321197  
Ion Ratio Lower Upper  
98 100  
100 65.5 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.527 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. -0.006 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion: 43 Resp: 1306  
Ion Ratio Lower Upper  
43 100  
58 34.5 31.6 47.4

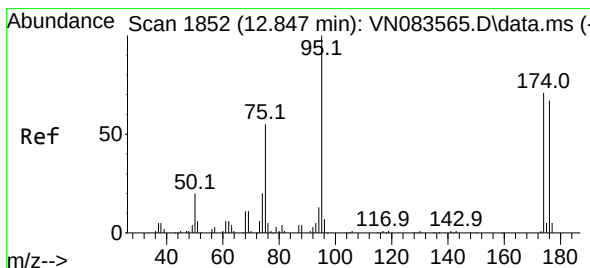
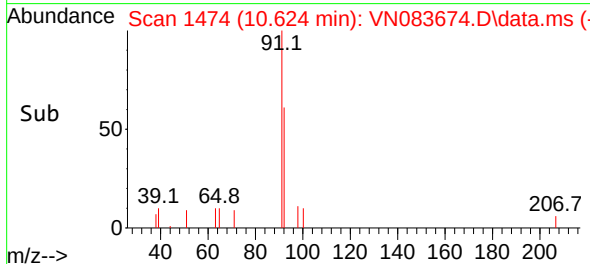
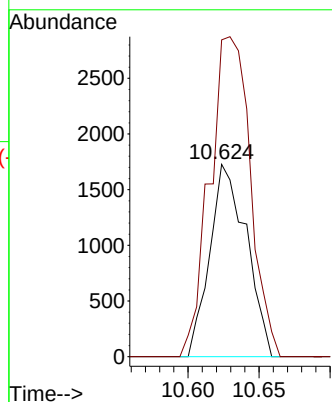
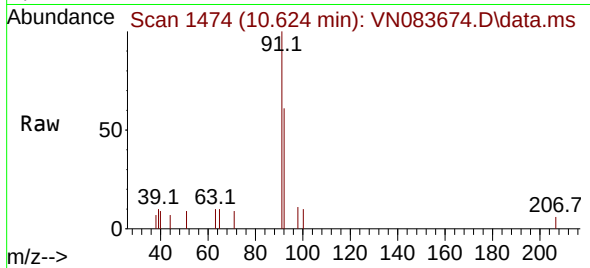




#52  
Toluene  
Concen: 0.601 ug/l  
RT: 10.624 min Scan# 1475  
Delta R.T. -0.006 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

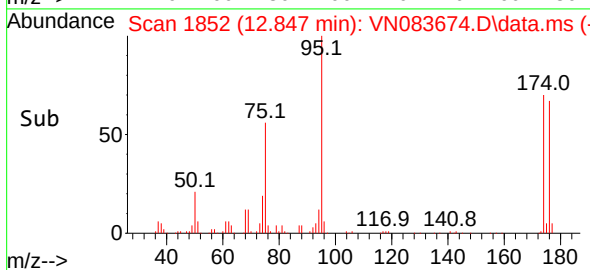
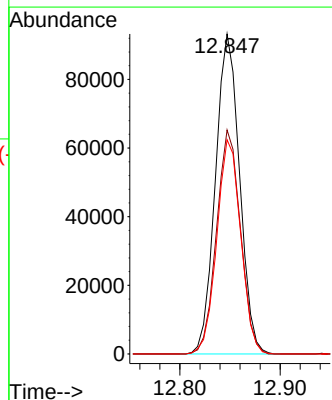
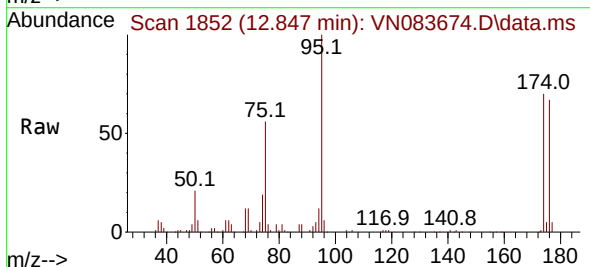
Instrument :  
MSVOA\_N  
ClientSampleId :

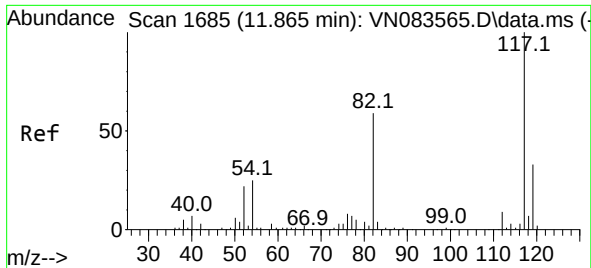
Tgt Ion: 92 Resp: 3096  
Ion Ratio Lower Upper  
92 100  
91 184.7 134.7 202.1



#62  
4-Bromofluorobenzene  
Concen: 61.483 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion: 95 Resp: 155785  
Ion Ratio Lower Upper  
95 100  
174 69.5 0.0 139.8  
176 66.3 0.0 131.4

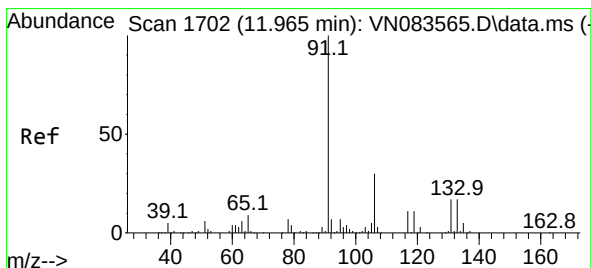
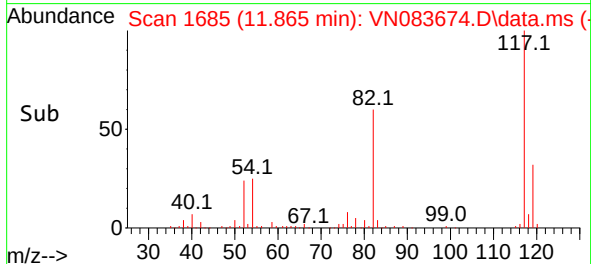
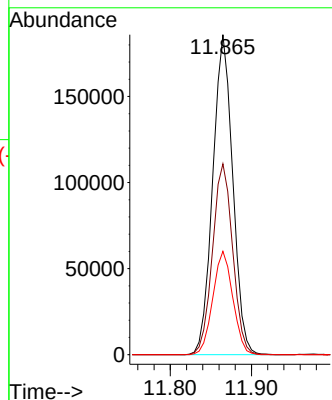
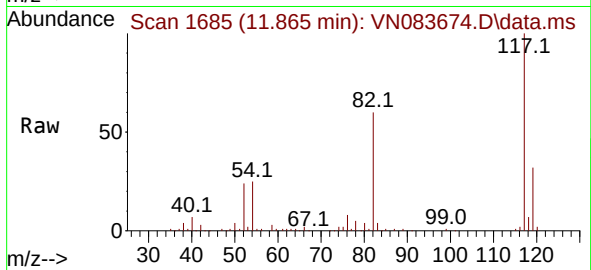




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

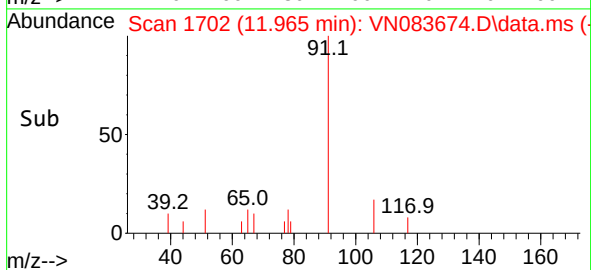
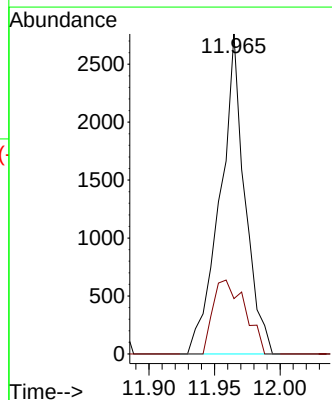
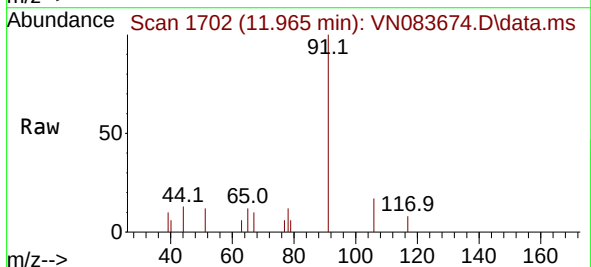
Instrument :  
MSVOA\_N  
ClientSampleId :

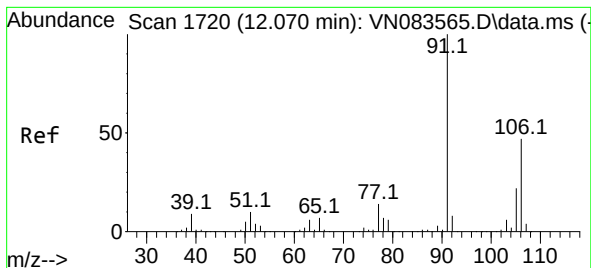
Tgt Ion:117 Resp: 317929  
Ion Ratio Lower Upper  
117 100  
82 59.6 47.4 71.0  
119 32.3 26.3 39.5



#67  
Ethyl Benzene  
Concen: 0.285 ug/l  
RT: 11.965 min Scan# 1702  
Delta R.T. 0.000 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion: 91 Resp: 3631  
Ion Ratio Lower Upper  
91 100  
106 17.3 24.3 36.5#

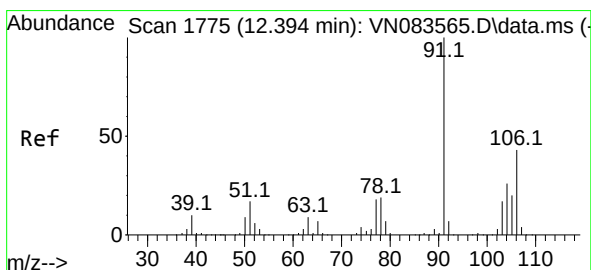
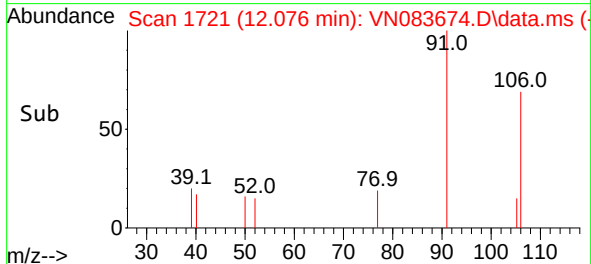
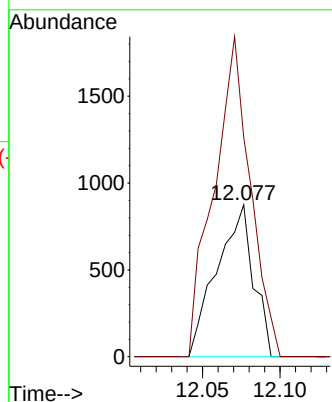
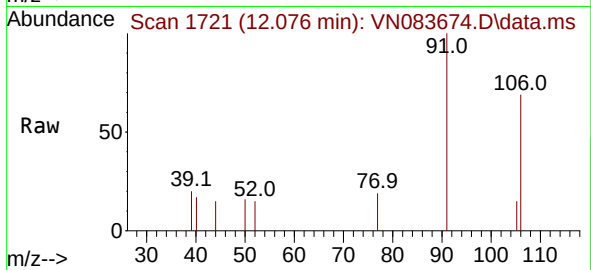




#68  
m/p-Xylenes  
Concen: 0.299 ug/l  
RT: 12.076 min Scan# 1720  
Delta R.T. 0.006 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

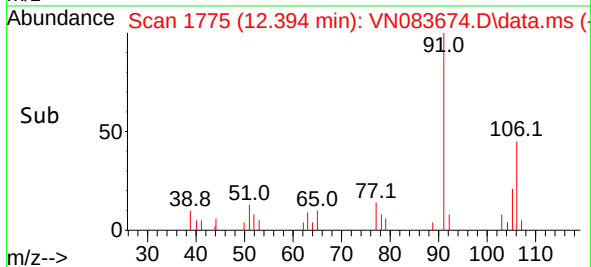
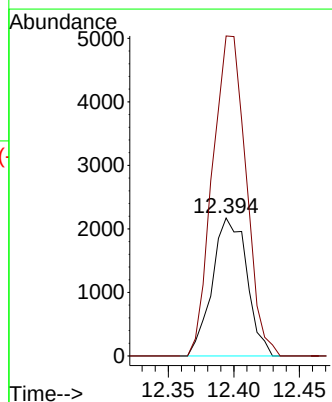
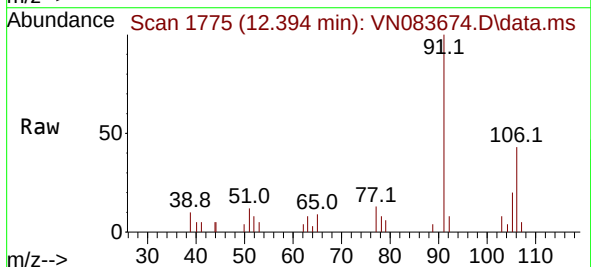
Instrument :  
MSVOA\_N  
ClientSampleId :

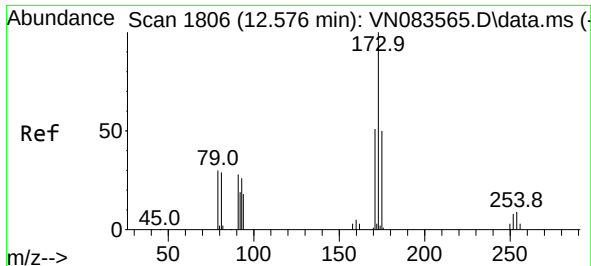
Tgt Ion:106 Resp: 1435  
Ion Ratio Lower Upper  
106 100  
91 209.8 169.2 253.8



#69  
o-Xylene  
Concen: 0.861 ug/l  
RT: 12.394 min Scan# 1775  
Delta R.T. 0.000 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion:106 Resp: 3990  
Ion Ratio Lower Upper  
106 100  
91 224.3 112.9 338.6

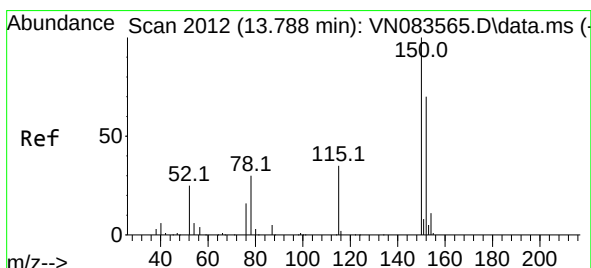
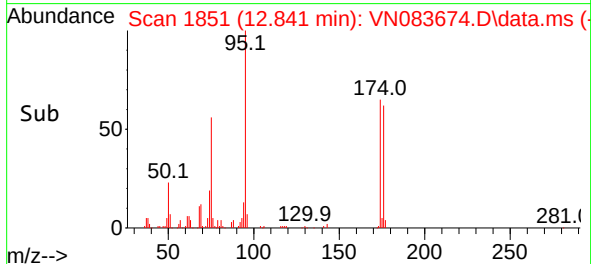
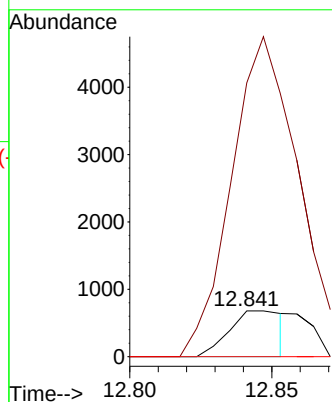
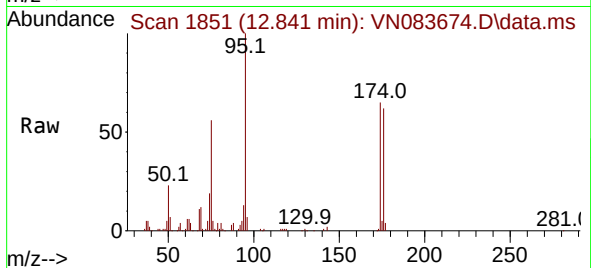




#71  
Bromoform  
Concen: 0.524 ug/l  
RT: 12.841 min Scan# 1806  
Delta R.T. 0.265 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

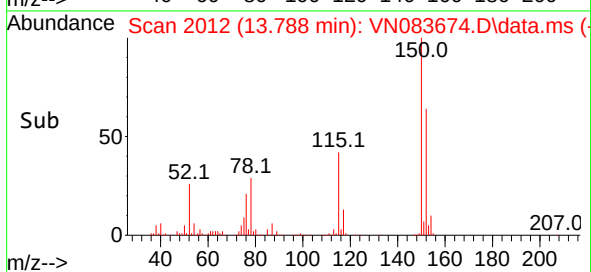
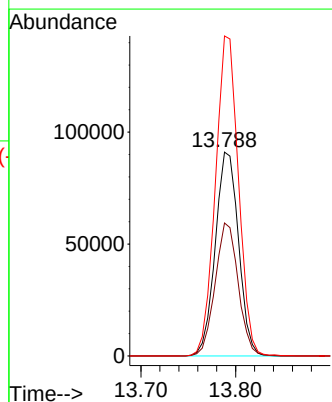
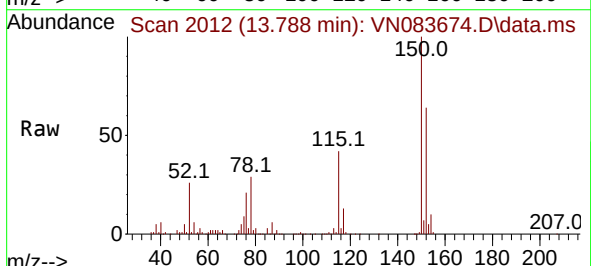
Instrument :  
MSVOA\_N  
ClientSampleId :

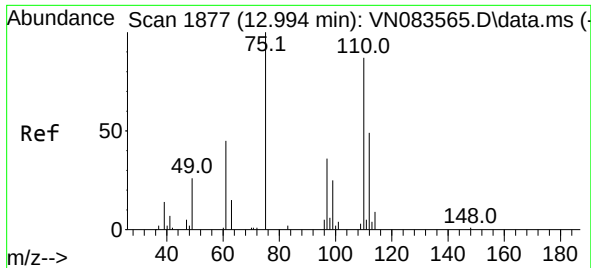
Tgt Ion:173 Resp: 898  
Ion Ratio Lower Upper  
173 100  
175 656.6 24.1 72.2#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion:152 Resp: 155604  
Ion Ratio Lower Upper  
152 100  
115 64.9 32.2 96.6  
150 155.6 0.0 348.6

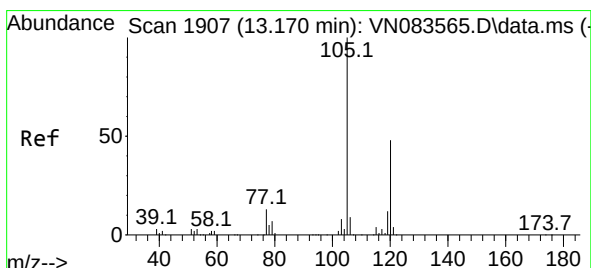
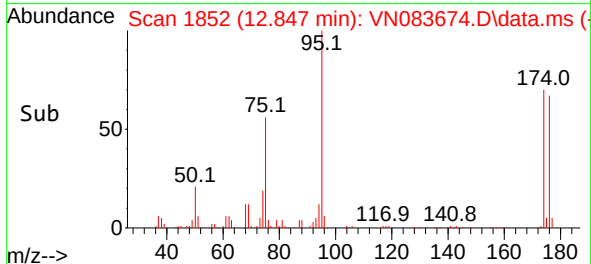
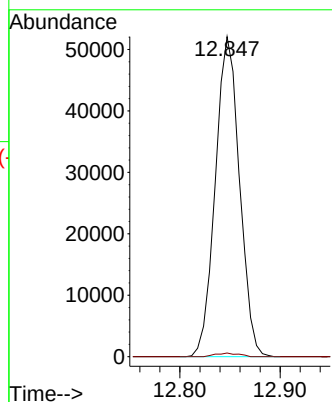
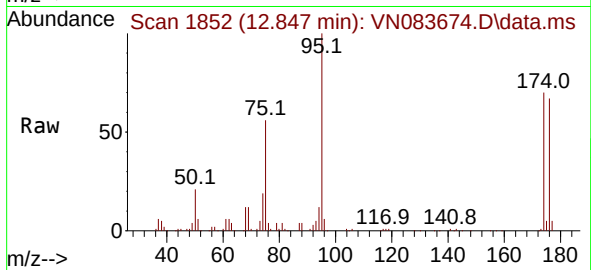




#76  
1,2,3-Trichloropropane  
Concen: 27.799 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. -0.147 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

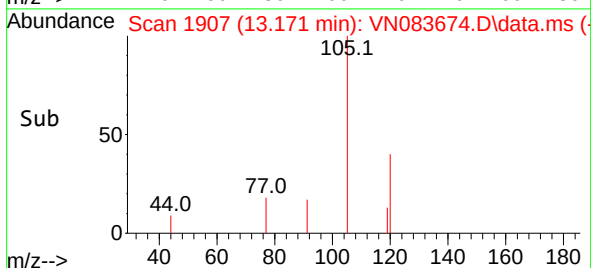
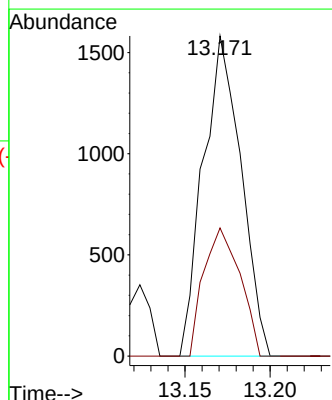
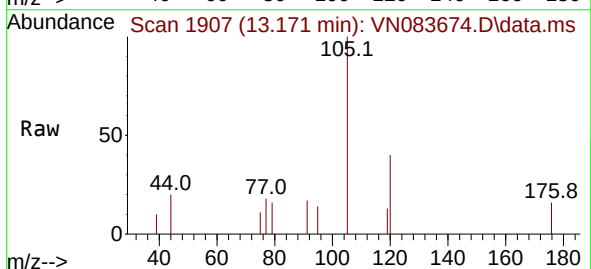
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 87335  
Ion Ratio Lower Upper  
75 100  
77 1.1 95.2 285.6#

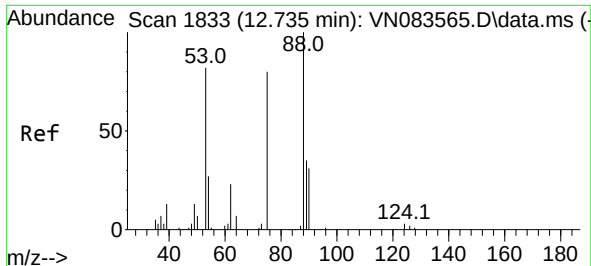


#80  
1,3,5-Trimethylbenzene  
Concen: 0.231 ug/l  
RT: 13.171 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion: 105 Resp: 2451  
Ion Ratio Lower Upper  
105 100  
120 38.4 23.4 70.3



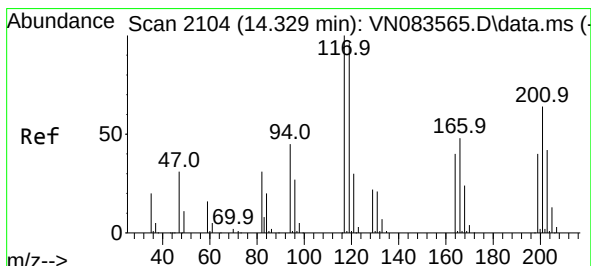
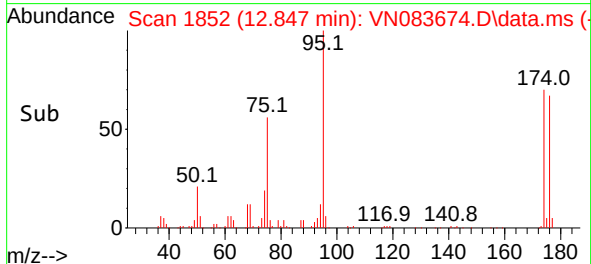
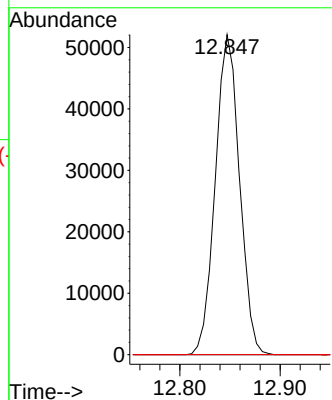
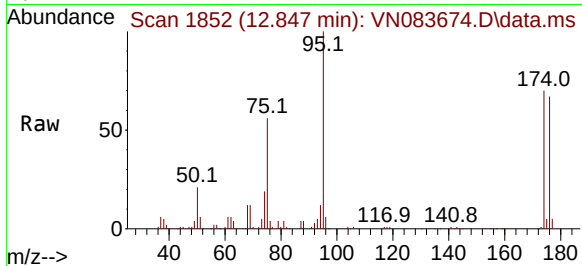




#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.567 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 87335  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.2 121.8#  
89 0.0 35.7 53.5#



#90  
Hexachloroethane  
Concen: 0.251 ug/l  
RT: 14.323 min Scan# 2103  
Delta R.T. -0.006 min  
Lab File: VN083674.D  
Acq: 05 Sep 2024 14:39

Tgt Ion:117 Resp: 512  
Ion Ratio Lower Upper  
117 100  
201 0.0 32.8 98.3#

