

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091724\  
 Data File : VN083944.D  
 Acq On : 17 Sep 2024 14:41  
 Operator : JC\MD  
 Sample : P3989-08  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 18 01:49:19 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

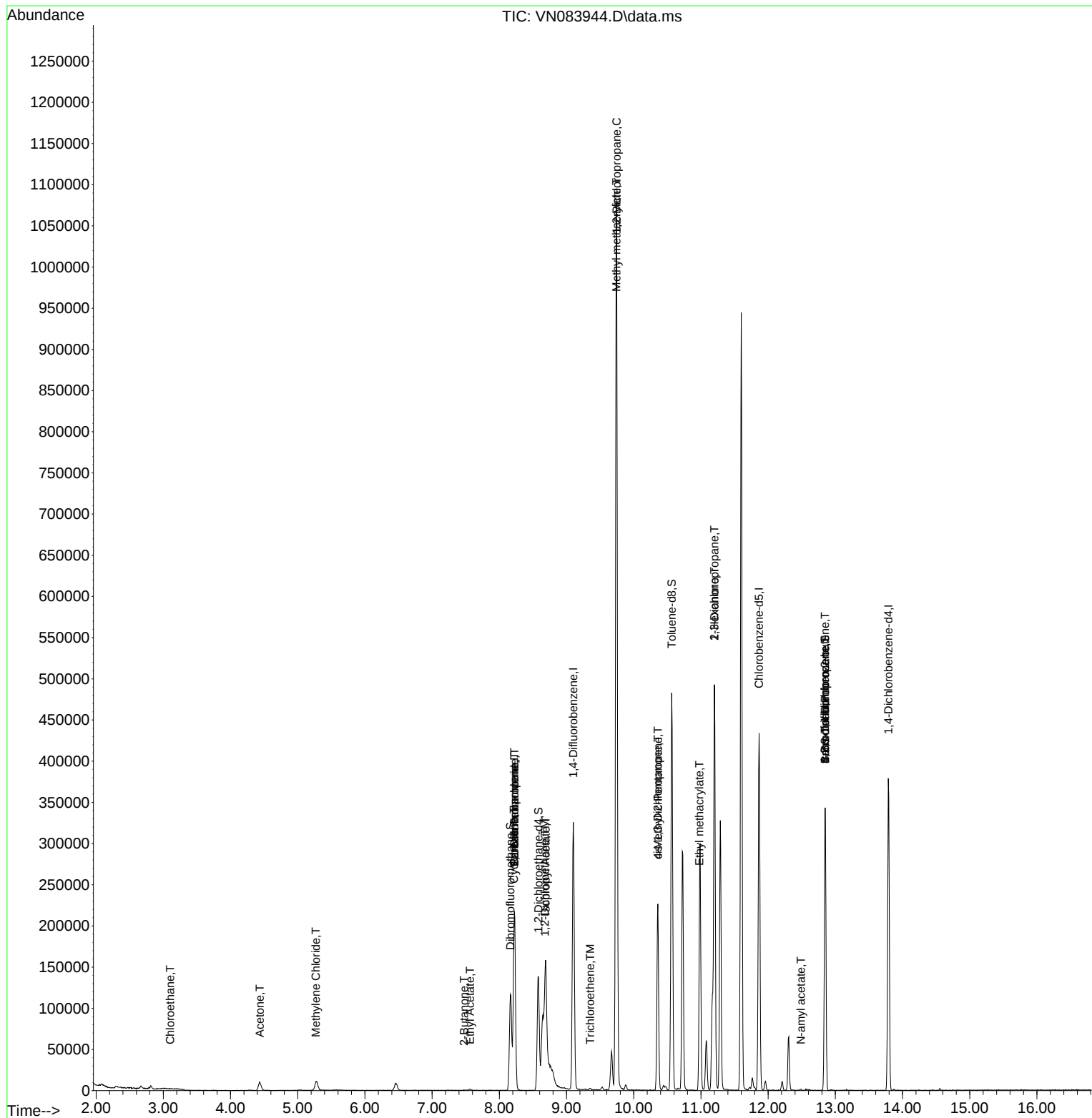
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 148299   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 262901   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 228921   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 95472    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 120141   | 53.727    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 107.460% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 83160    | 49.410    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 98.820%  |          |
| 50) Toluene-d8                | 10.565 | 98    | 315001   | 54.139    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 108.280% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 114811   | 47.827    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery  | = 95.660%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.365  | 50    | 188      | Below Cal | #          | 41       |
| 6) Chloroethane               | 3.101  | 64    | 698      | 0.527     | ug/l #     | 45       |
| 16) Acetone                   | 4.436  | 43    | 20020    | 22.333    | ug/l       | 95       |
| 18) Methyl Acetate            | 5.024  | 43    | 710      | Below Cal | #          | 52       |
| 20) Methylene Chloride        | 5.271  | 84    | 8177     | 4.458     | ug/l       | 97       |
| 25) 2-Butanone                | 7.477  | 43    | 1111     | 0.943     | ug/l #     | 49       |
| 31) Cyclohexane               | 8.218  | 56    | 4297     | 1.330     | ug/l #     | 8        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 14306    | 5.647     | ug/l #     | 49       |
| 37) Ethyl Acetate             | 7.565  | 43    | 2832     | 1.232     | ug/l #     | 74       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 17772    | 6.184     | ug/l #     | 17       |
| 42) 1,2-Dichloroethane        | 8.677  | 62    | 1024     | 0.359     | ug/l #     | 77       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 320437   | 76.901    | ug/l #     | 71       |
| 44) Trichloroethene           | 9.353  | 130   | 619      | 0.351     | ug/l       | 65       |
| 45) 1,2-Dichloropropane       | 9.747  | 63    | 1257     | 0.682     | ug/l #     | 42       |
| 48) Methyl methacrylate       | 9.741  | 41    | 103653   | 52.431    | ug/l #     | 45       |
| 51) 4-Methyl-2-Pentanone      | 10.359 | 43    | 87241    | 38.462    | ug/l #     | 45       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 37696    | 12.674    | ug/l #     | 66       |
| 56) Ethyl methacrylate        | 10.977 | 69    | 1353     | 0.505     | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 11.200 | 76    | 4780     | 1.597     | ug/l #     | 42       |
| 59) 2-Hexanone                | 11.200 | 43    | 64964    | 38.718    | ug/l #     | 52       |
| 71) Bromoform                 | 12.847 | 173   | 501      | 0.422     | ug/l #     | 1        |
| 74) N-amyl acetate            | 12.488 | 43    | 772      | 0.245     | ug/l #     | 43       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 65380    | 33.938    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 65380    | 88.887    | ug/l #     | 9        |
| -----                         |        |       |          |           |            |          |

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

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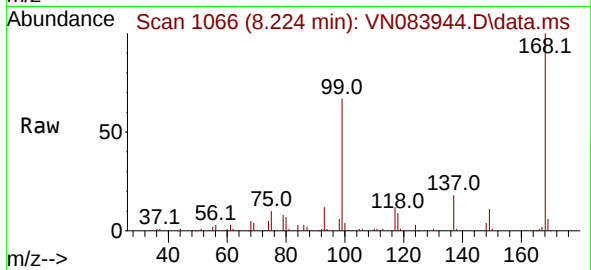
Quant Time: Sep 18 01:49:19 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
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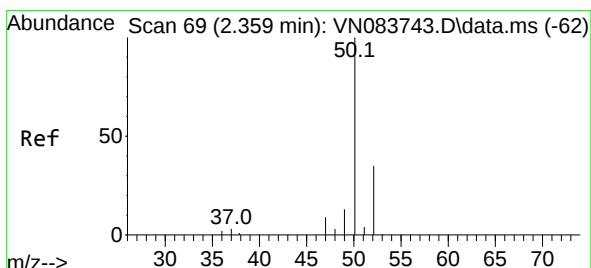
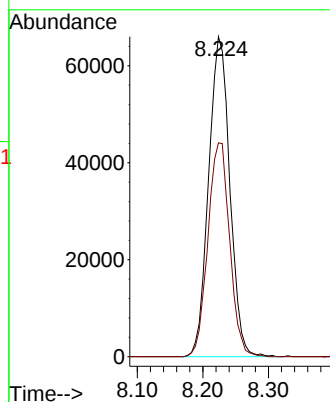
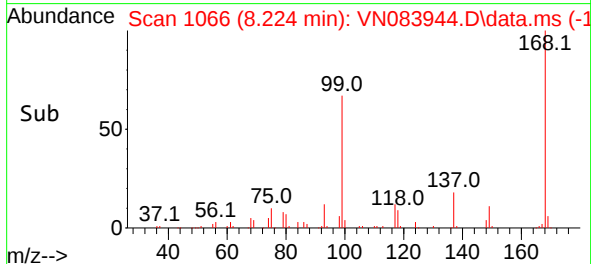


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

Instrument :  
MSVOA\_N  
ClientSampleId :

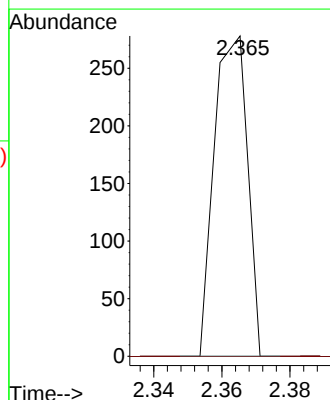
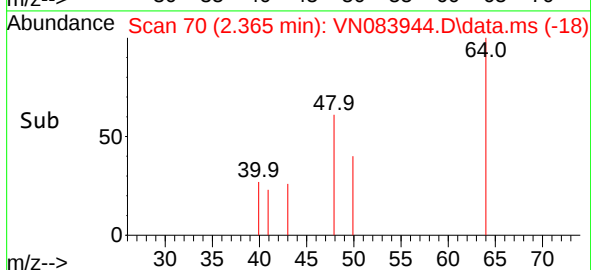
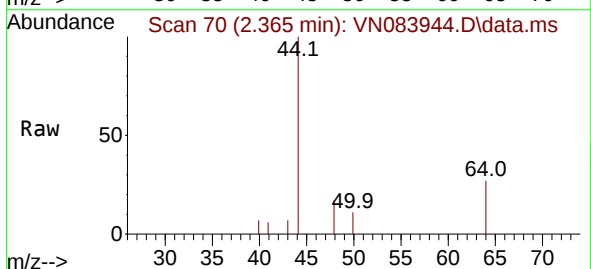


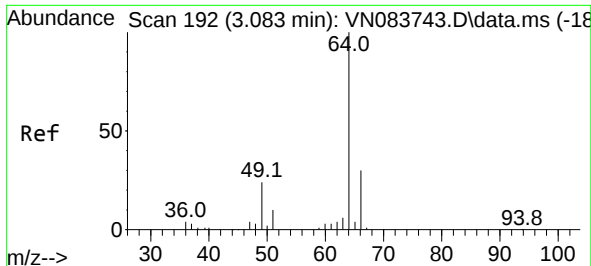
Tgt Ion:168 Resp: 148299  
Ion Ratio Lower Upper  
168 100  
99 66.8 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

Tgt Ion: 50 Resp: 188  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#

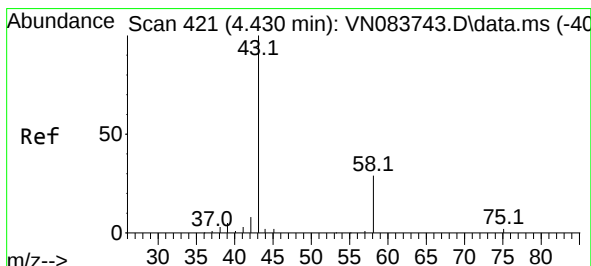
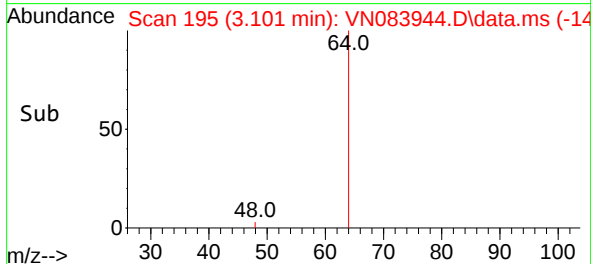
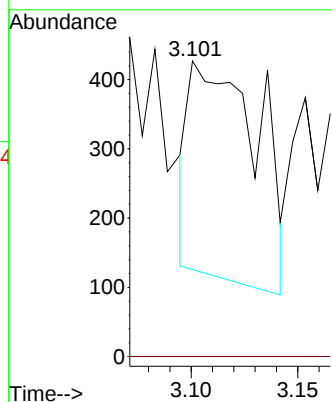
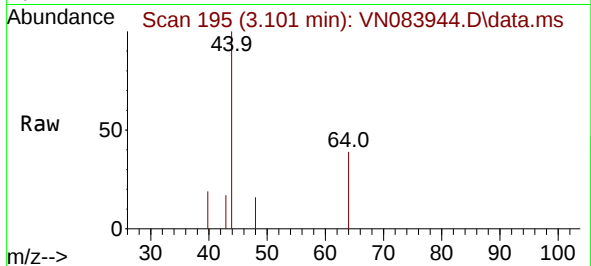




#6  
Chloroethane  
Concen: 0.527 ug/l  
RT: 3.101 min Scan# 192  
Delta R.T. 0.018 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

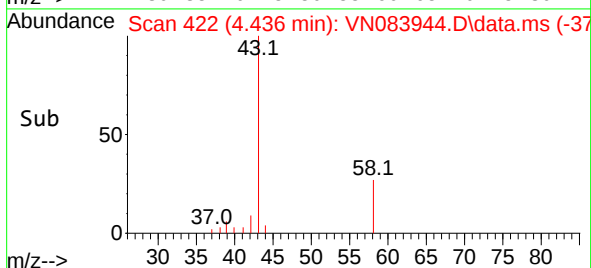
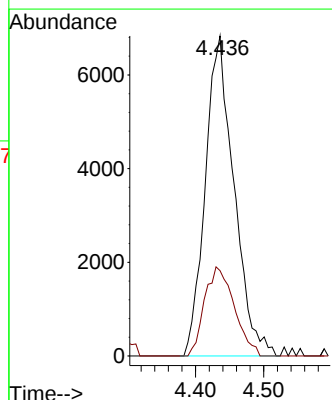
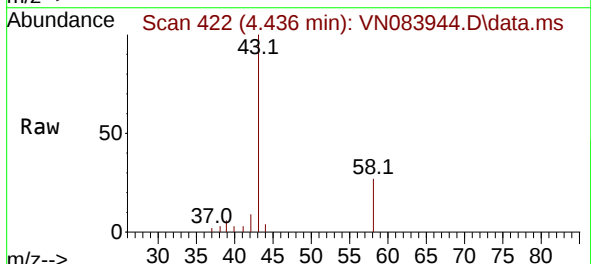
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 64 Resp: 698  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.9 35.9#



#16  
Acetone  
Concen: 22.333 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.006 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

Tgt Ion: 43 Resp: 20020  
Ion Ratio Lower Upper  
43 100  
58 26.7 23.7 35.5





#18

Methyl Acetate

Concen: Below Cal

RT: 5.024 min Scan# 51

Delta R.T. -0.000 min

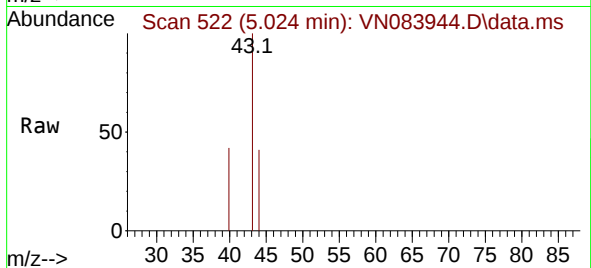
Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

Instrument :

MSVOA\_N

ClientSampleId :

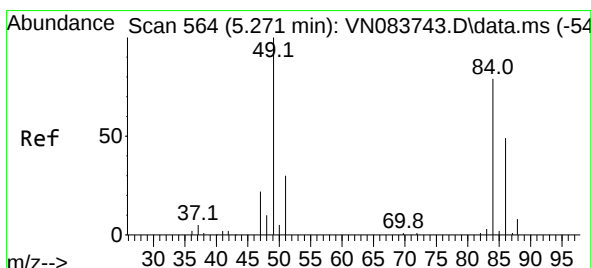
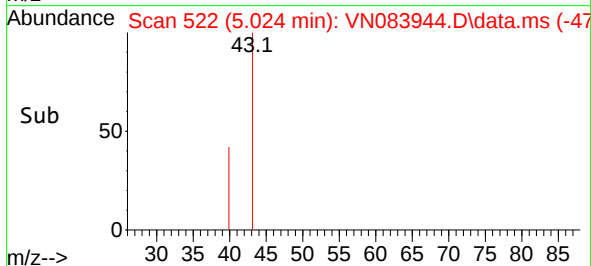
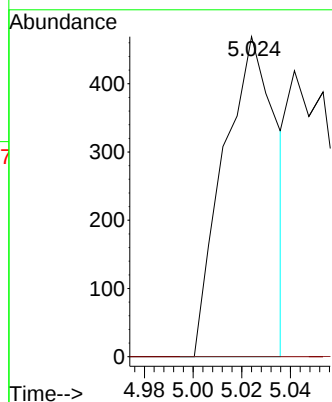


Tgt Ion: 43 Resp: 710

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.4#



#20

Methylene Chloride

Concen: 4.458 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

Tgt Ion: 84 Resp: 8177

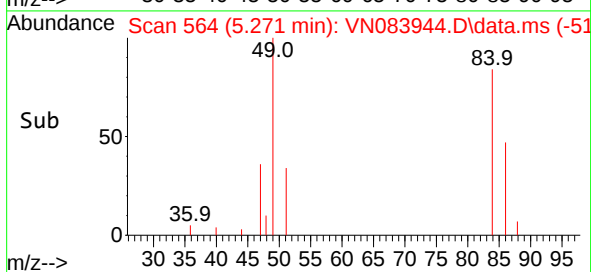
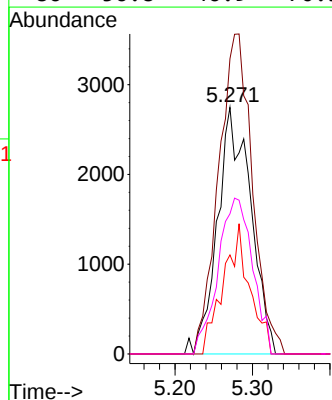
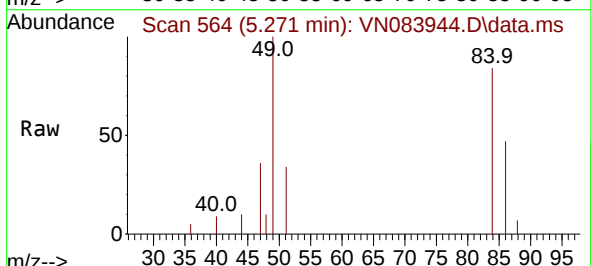
Ion Ratio Lower Upper

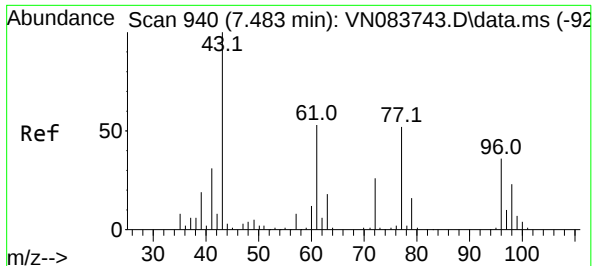
84 100

49 119.7 93.4 140.0

51 40.2 29.2 43.8

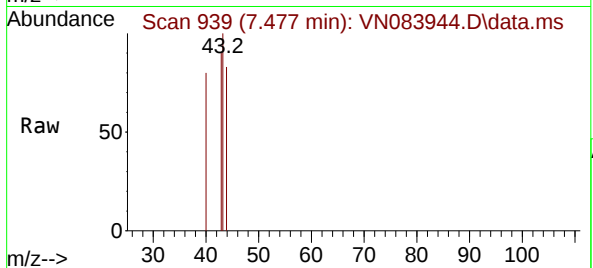
86 56.8 46.9 70.3



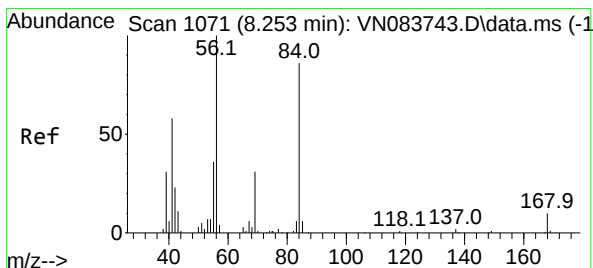
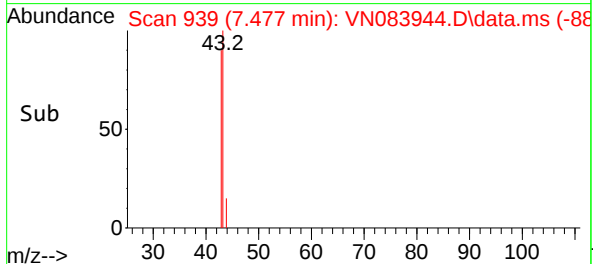
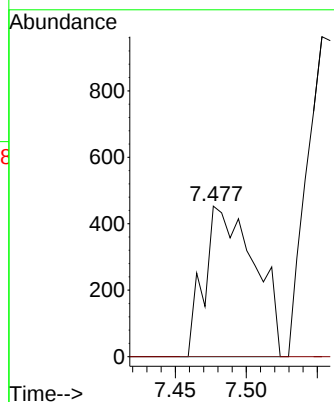


#25  
2-Butanone  
Concen: 0.943 ug/l  
RT: 7.477 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

Instrument :  
MSVOA\_N  
ClientSampleId :

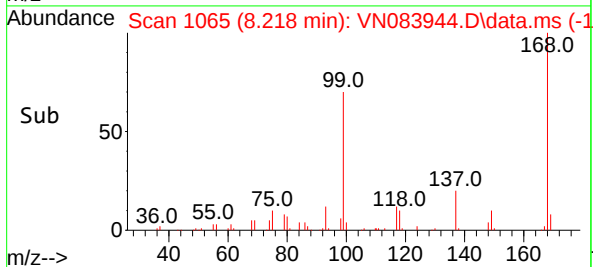
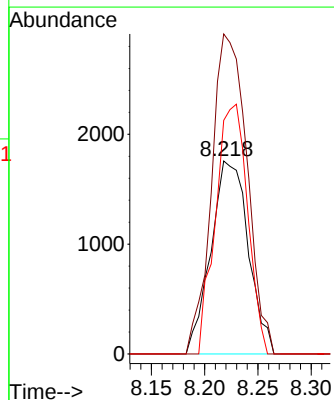
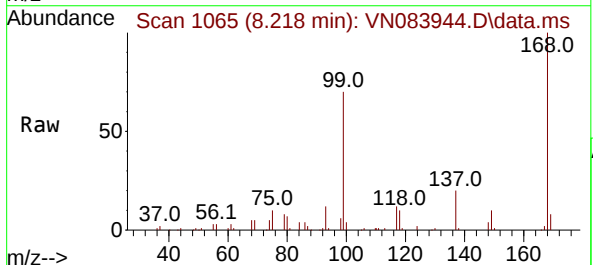


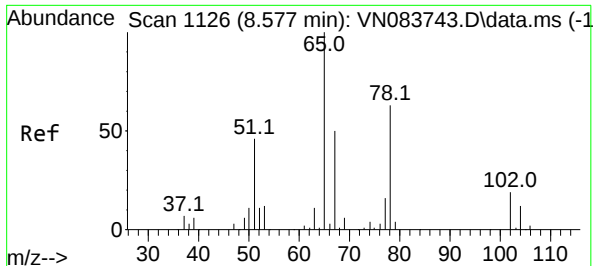
Tgt Ion: 43 Resp: 1111  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.8 31.2#



#31  
Cyclohexane  
Concen: 1.330 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.035 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

Tgt Ion: 56 Resp: 4297  
Ion Ratio Lower Upper  
56 100  
69 165.8 26.9 40.3#  
84 121.0 69.2 103.8#





#33

1,2-Dichloroethane-d4

Concen: 53.727 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

Instrument :

MSVOA\_N

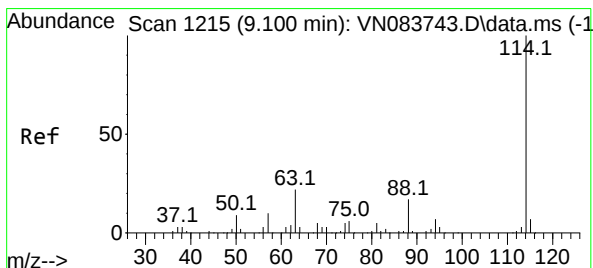
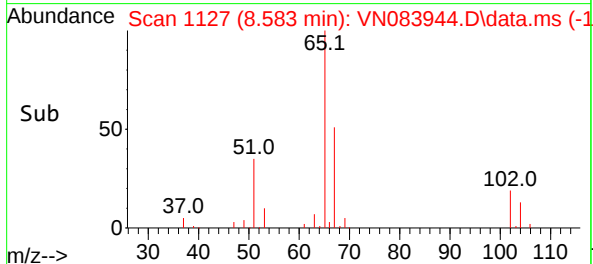
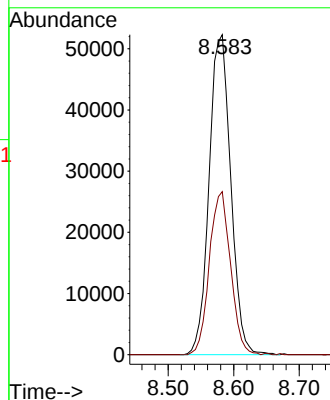
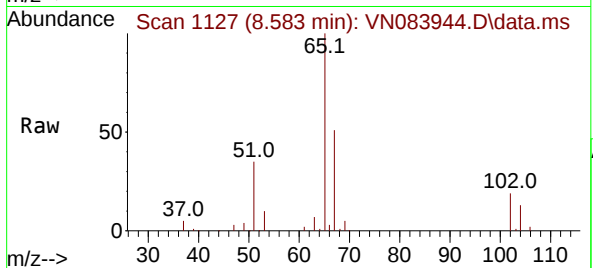
ClientSampleId :

Tgt Ion: 65 Resp: 120141

Ion Ratio Lower Upper

65 100

67 49.8 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: VN083944.D

Acq: 17 Sep 2024 14:41

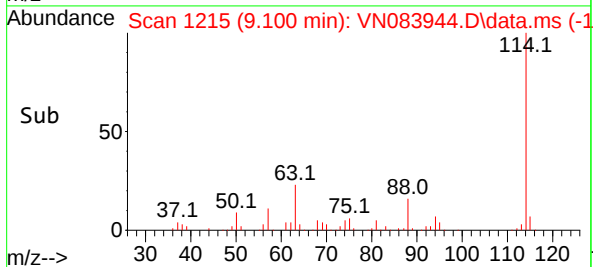
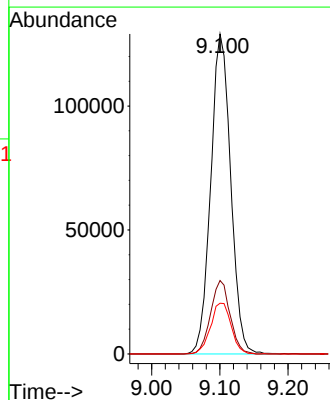
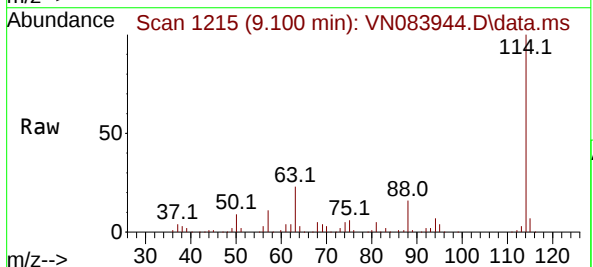
Tgt Ion: 114 Resp: 262901

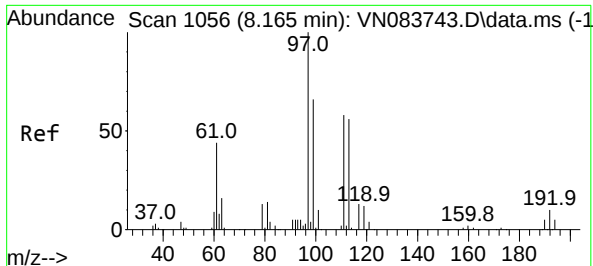
Ion Ratio Lower Upper

114 100

63 23.0 0.0 43.4

88 15.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.410 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

Instrument :

MSVOA\_N

ClientSampleId :

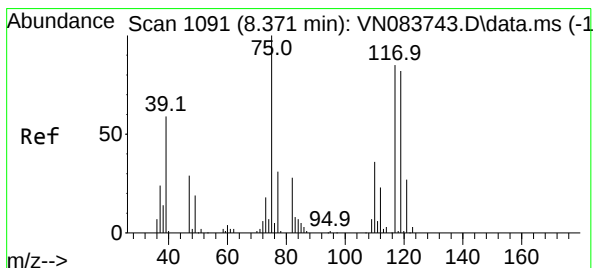
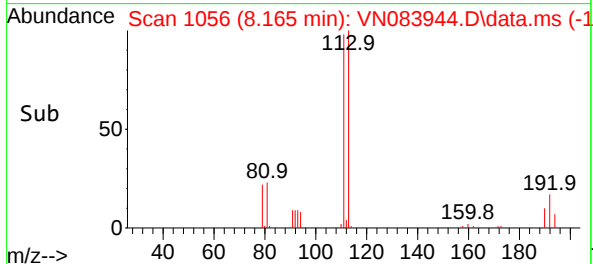
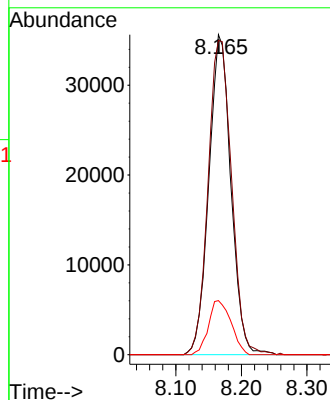
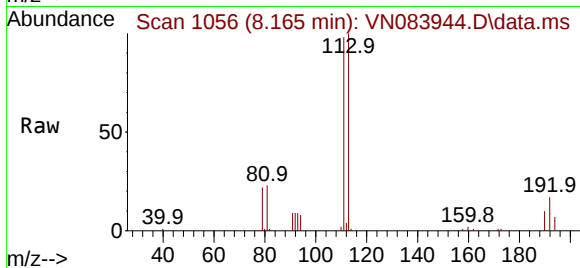
Tgt Ion:113 Resp: 83160

Ion Ratio Lower Upper

113 100

111 104.5 82.6 124.0

192 17.3 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.647 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

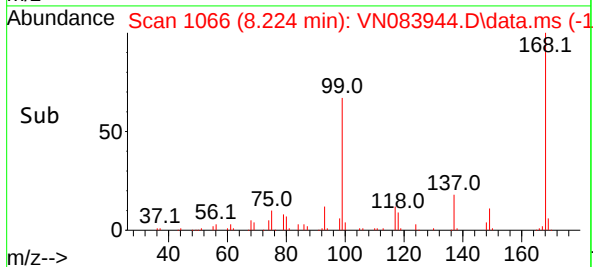
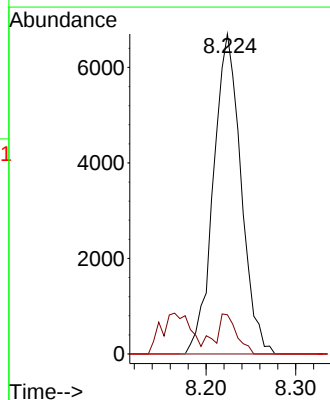
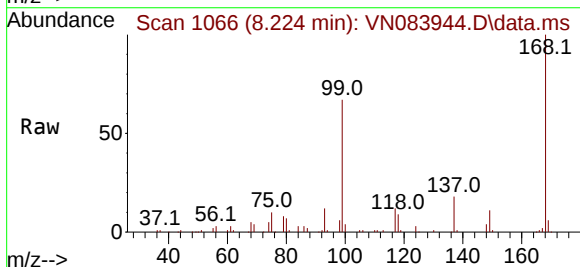
Tgt Ion: 75 Resp: 14306

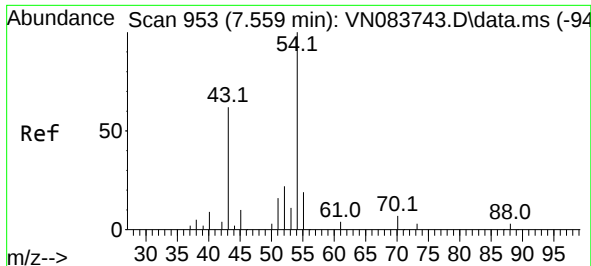
Ion Ratio Lower Upper

75 100

110 7.9 16.7 50.1#

77 0.0 25.2 37.8#





#37

Ethyl Acetate

Concen: 1.232 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

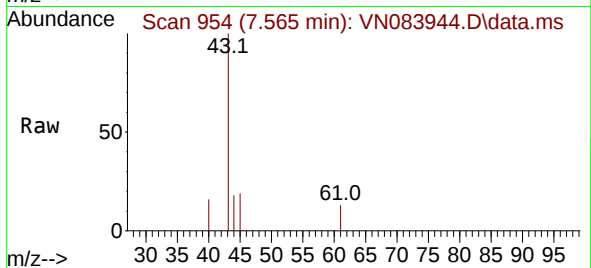
Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

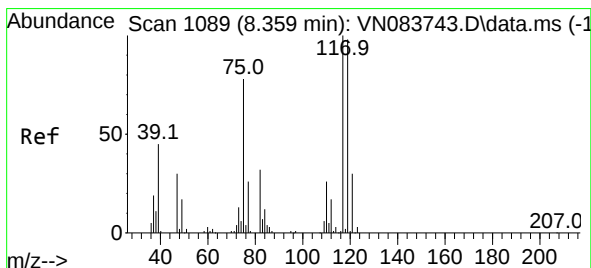
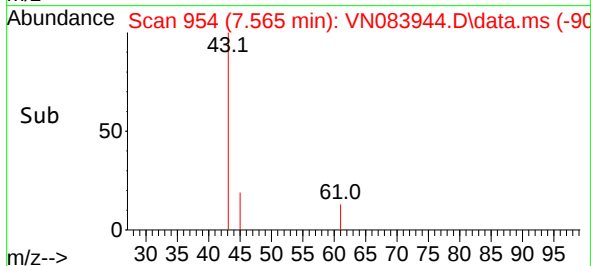
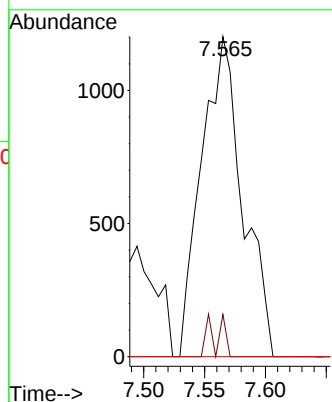
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 2832  |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 4.0   | 11.1  | 16.7# |
| 70        | 0.0   | 8.8   | 13.2# |



#38

Carbon Tetrachloride

Concen: 6.184 ug/l

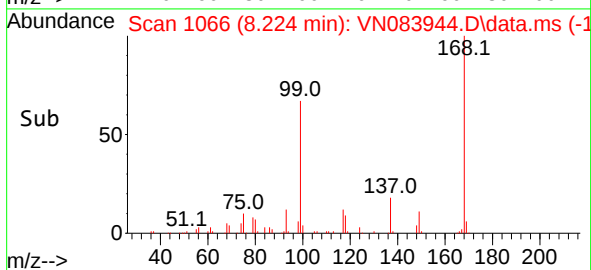
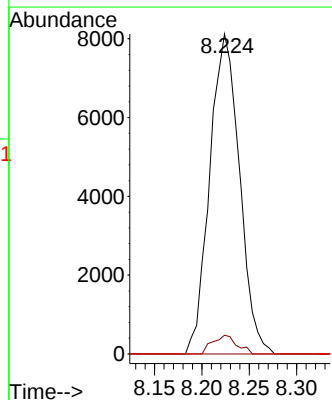
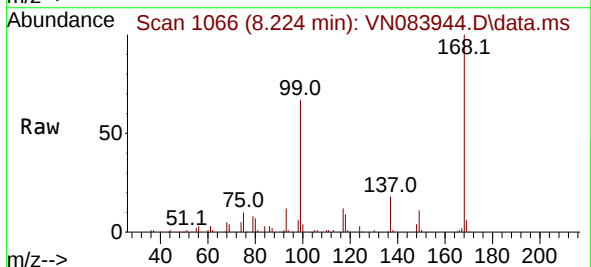
RT: 8.224 min Scan# 1066

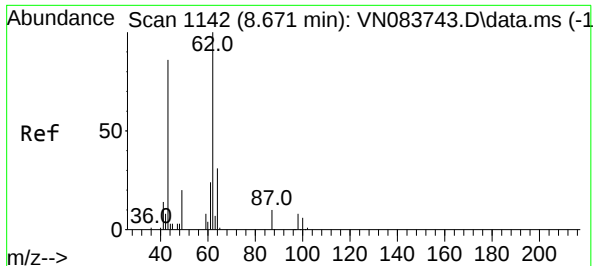
Delta R.T. -0.135 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 17772  |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.8   | 76.1  | 114.1# |
| 121       | 0.0   | 24.1  | 36.1#  |





#42

1,2-Dichloroethane

Concen: 0.359 ug/l

RT: 8.677 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

Instrument :

MSVOA\_N

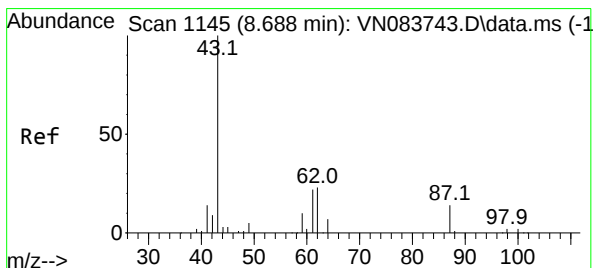
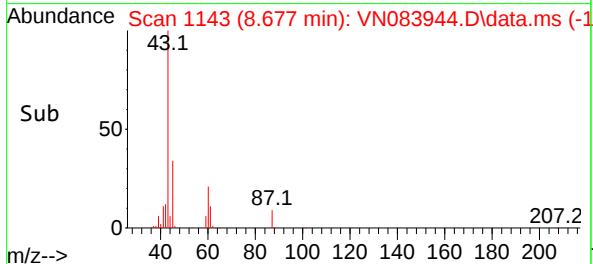
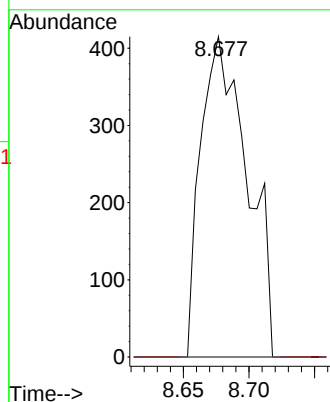
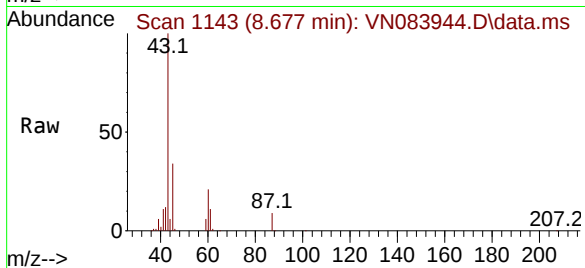
ClientSampleId :

Tgt Ion: 62 Resp: 1024

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6



#43

Isopropyl Acetate

Concen: 76.901 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

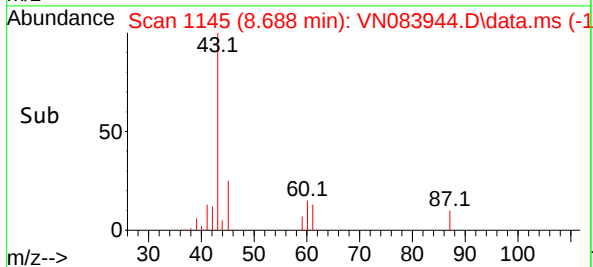
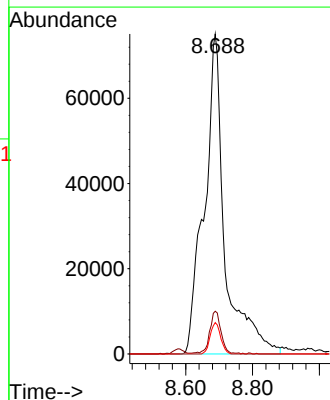
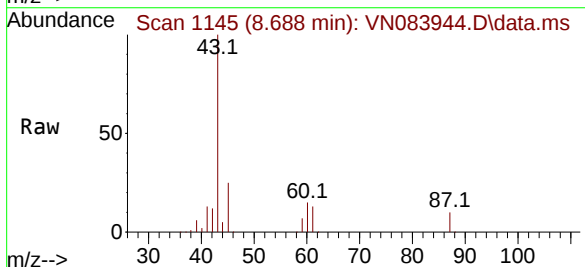
Tgt Ion: 43 Resp: 320437

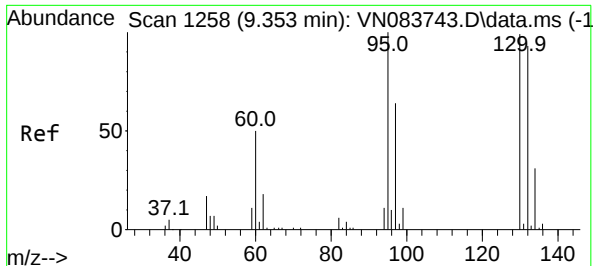
Ion Ratio Lower Upper

43 100

61 7.4 19.4 29.0#

87 5.0 9.8 14.6#

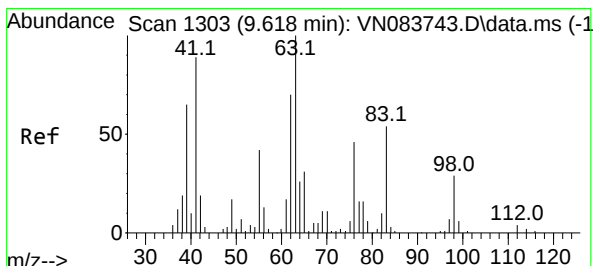
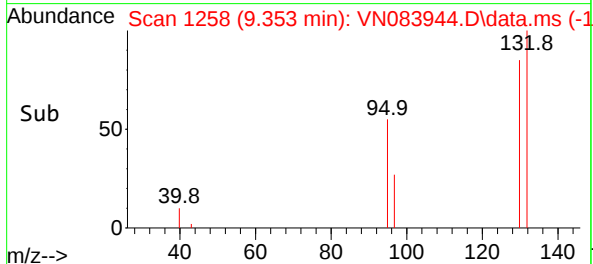
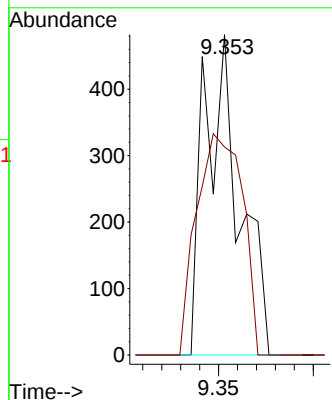
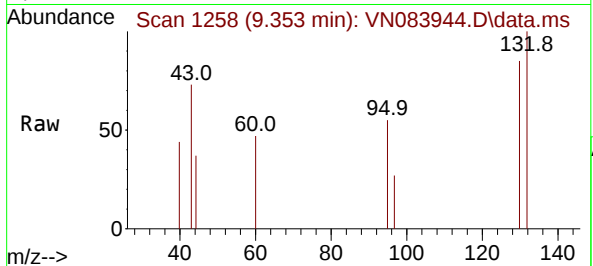




#44  
Trichloroethene  
Concen: 0.351 ug/l  
RT: 9.353 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

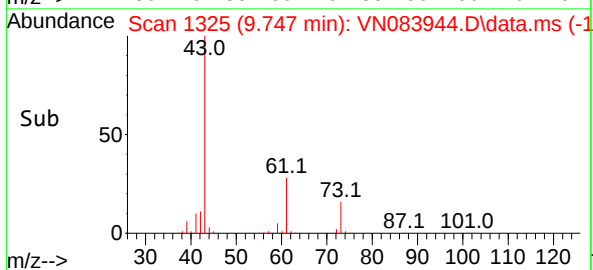
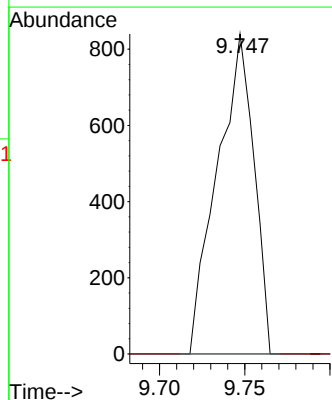
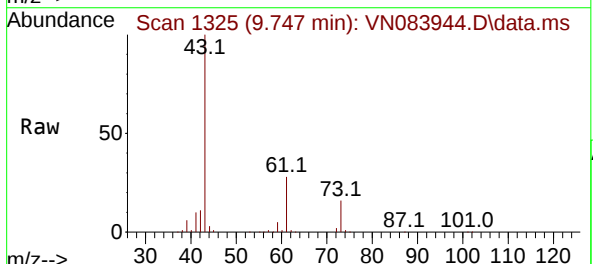
Instrument :  
MSVOA\_N  
ClientSampleId :

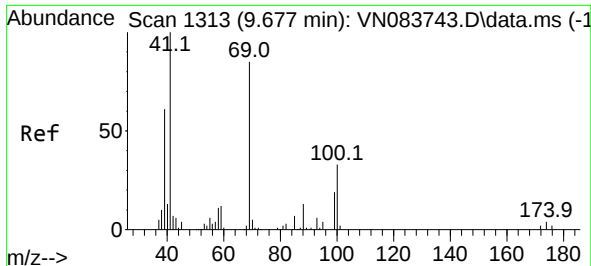
Tgt Ion:130 Resp: 619  
Ion Ratio Lower Upper  
130 100  
95 64.9 0.0 200.4



#45  
1,2-Dichloropropane  
Concen: 0.682 ug/l  
RT: 9.747 min Scan# 1325  
Delta R.T. 0.129 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

Tgt Ion: 63 Resp: 1257  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.9 38.9#

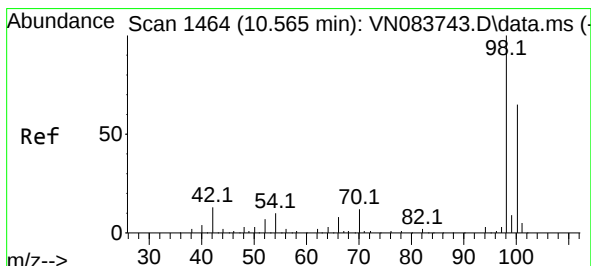
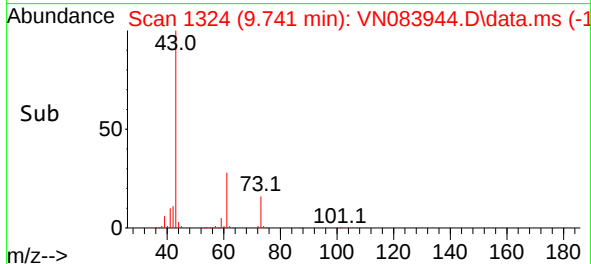
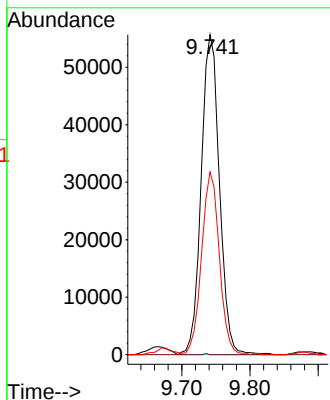
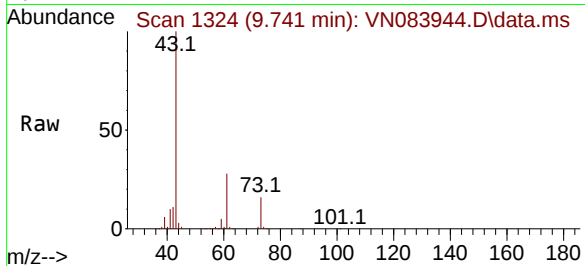




#48  
Methyl methacrylate  
Concen: 52.431 ug/l  
RT: 9.741 min Scan# 11  
Delta R.T. 0.065 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

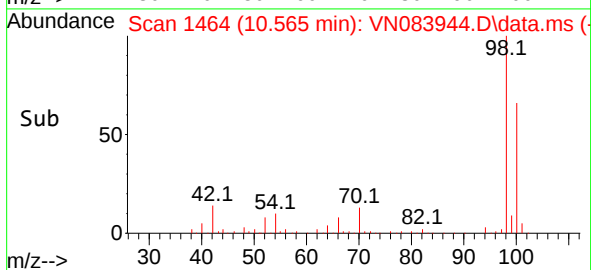
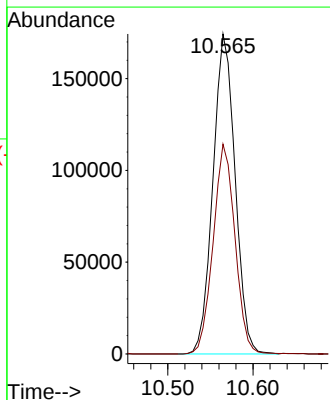
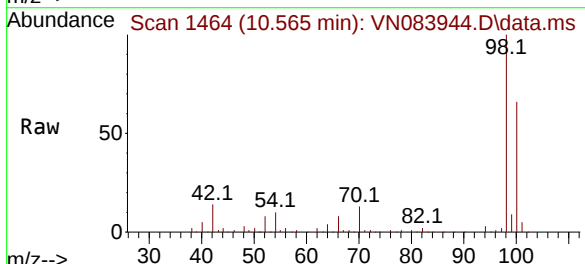
Instrument :  
MSVOA\_N  
ClientSampleId :

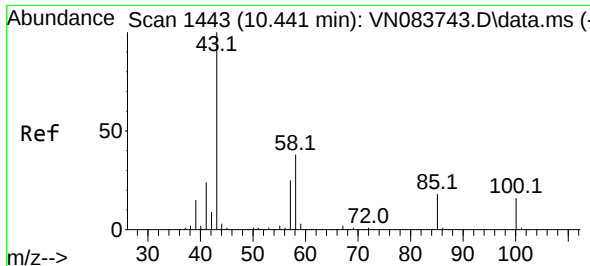
Tgt Ion: 41 Resp: 103653  
Ion Ratio Lower Upper  
41 100  
69 0.1 64.3 96.5#  
39 55.5 48.9 73.3



#50  
Toluene-d8  
Concen: 54.139 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

Tgt Ion: 98 Resp: 315001  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 38.462 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. -0.082 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

Instrument :

MSVOA\_N

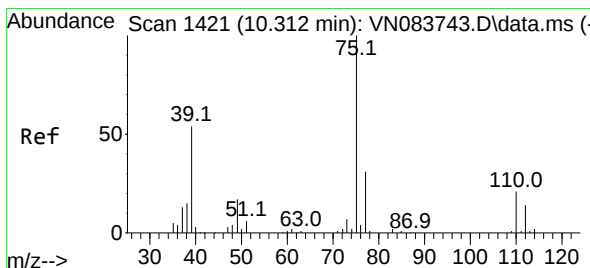
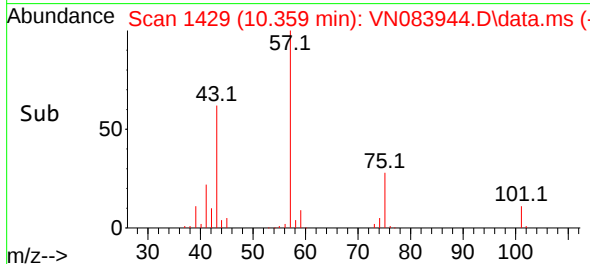
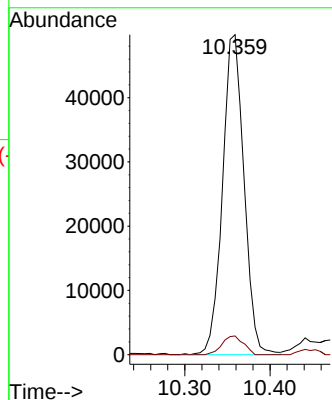
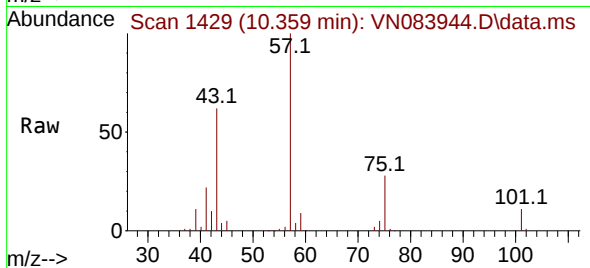
ClientSampleId :

Tgt Ion: 43 Resp: 87241

Ion Ratio Lower Upper

43 100

58 5.9 31.6 47.4#



#54

cis-1,3-Dichloropropene

Concen: 12.674 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

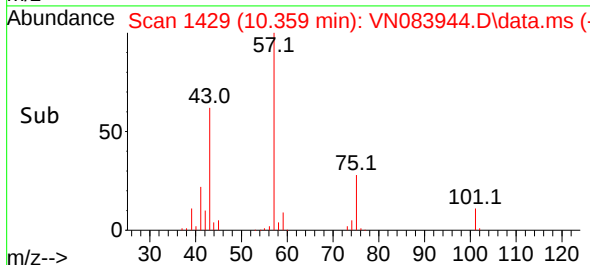
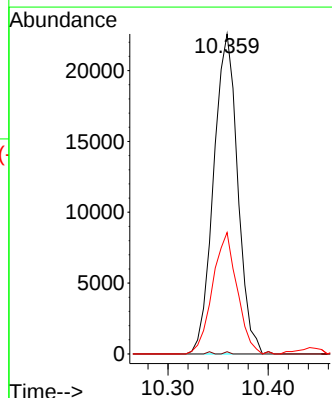
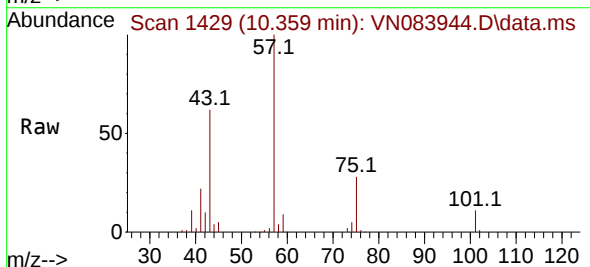
Tgt Ion: 75 Resp: 37696

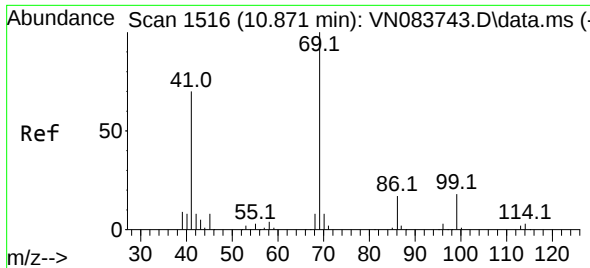
Ion Ratio Lower Upper

75 100

77 0.7 25.0 37.6#

39 38.0 42.6 64.0#

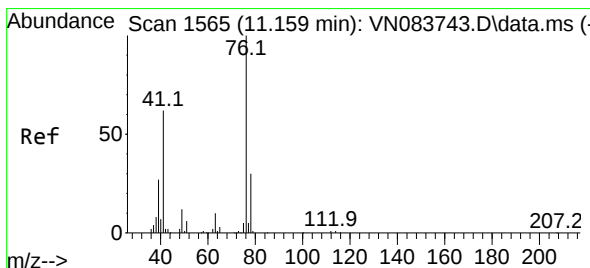
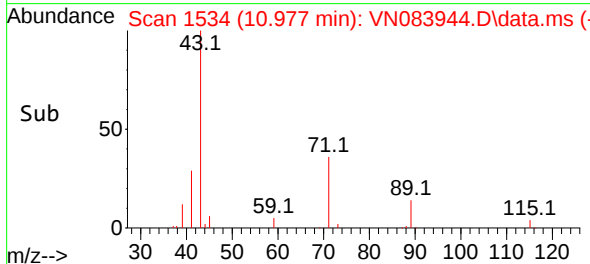
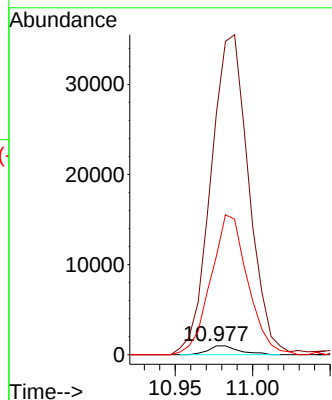
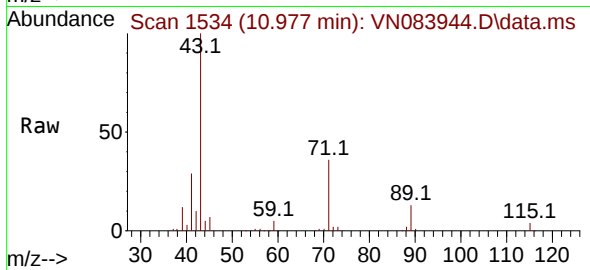




#56  
Ethyl methacrylate  
Concen: 0.505 ug/l  
RT: 10.977 min Scan# 11  
Delta R.T. 0.106 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

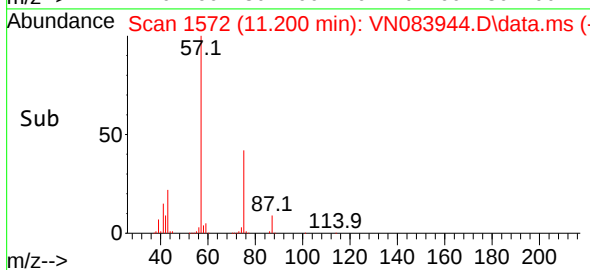
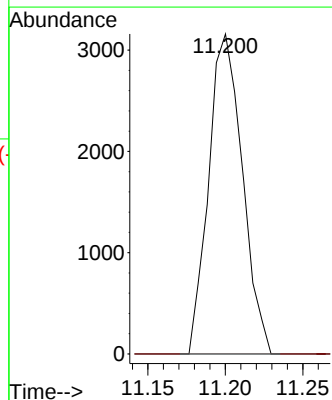
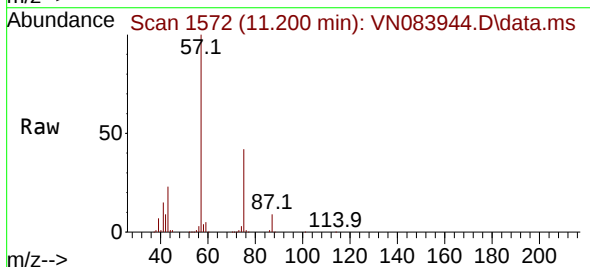
Instrument :  
MSVOA\_N  
ClientSampleId :

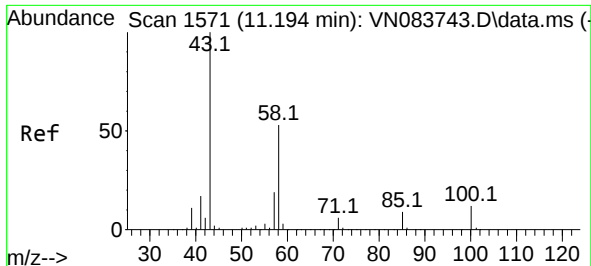
Tgt Ion: 69 Resp: 1353  
Ion Ratio Lower Upper  
69 100  
41 4474.1 53.9 80.9#  
39 1901.4 32.6 48.8#



#57  
1,3-Dichloropropane  
Concen: 1.597 ug/l  
RT: 11.200 min Scan# 1572  
Delta R.T. 0.041 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

Tgt Ion: 76 Resp: 4780  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.8 38.6#

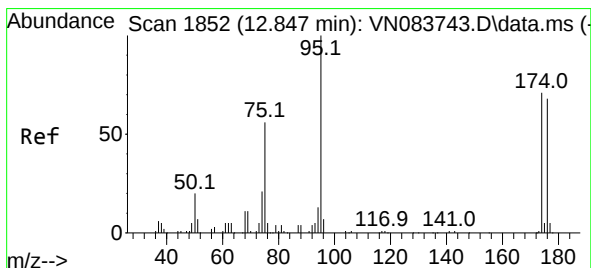
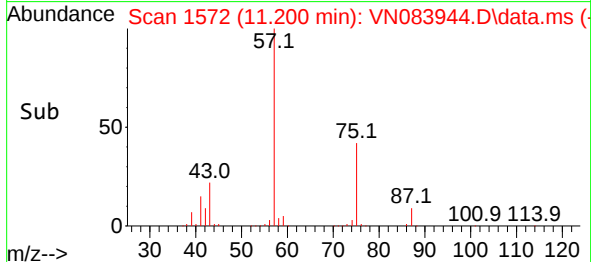
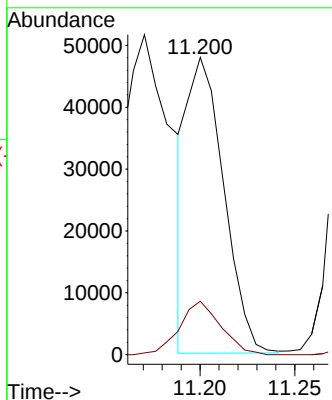
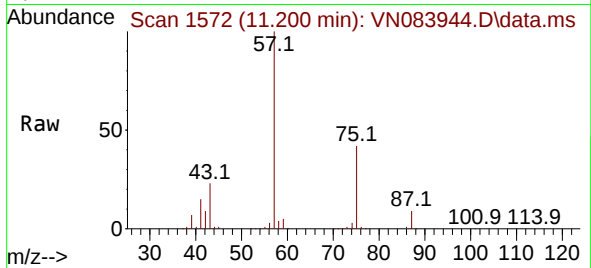




#59  
2-Hexanone  
Concen: 38.718 ug/l  
RT: 11.200 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

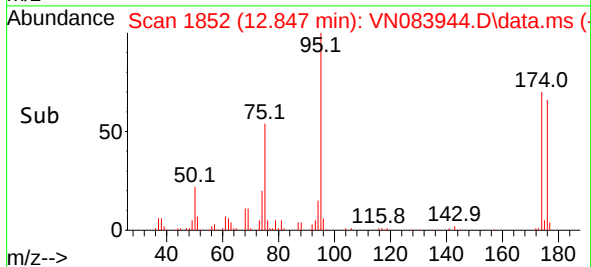
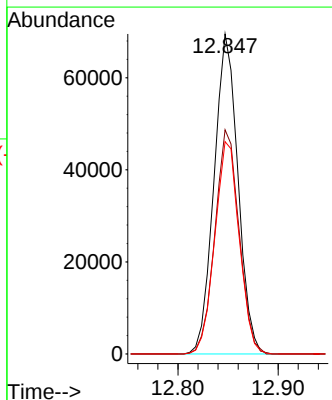
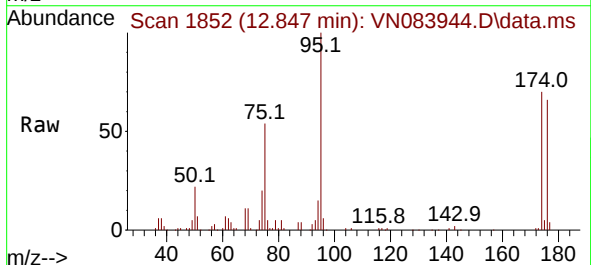
Instrument :  
MSVOA\_N  
ClientSampleId :

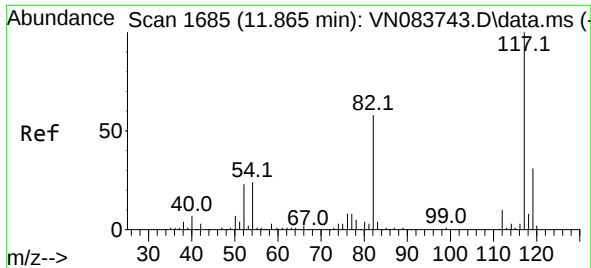
Tgt Ion: 43 Resp: 64964  
Ion Ratio Lower Upper  
43 100  
58 20.2 27.2 81.5#



#62  
4-Bromofluorobenzene  
Concen: 47.827 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

Tgt Ion: 95 Resp: 114811  
Ion Ratio Lower Upper  
95 100  
174 70.9 0.0 139.8  
176 67.8 0.0 131.4

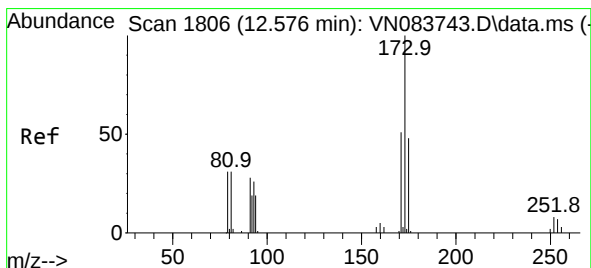
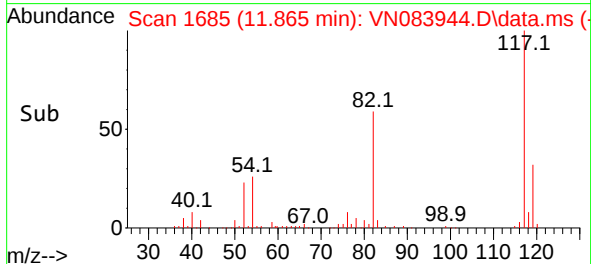
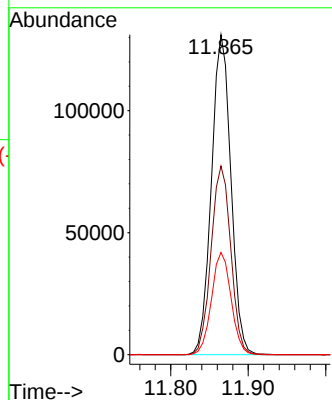
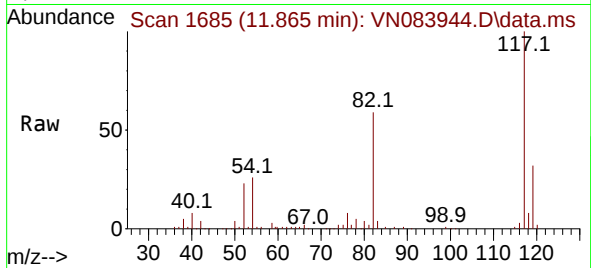




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

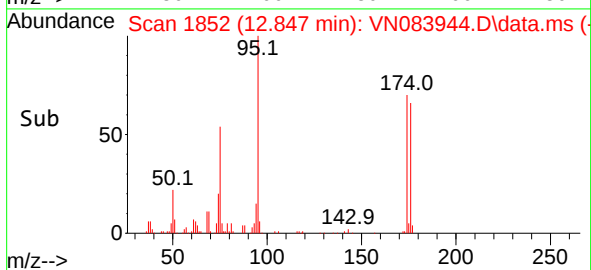
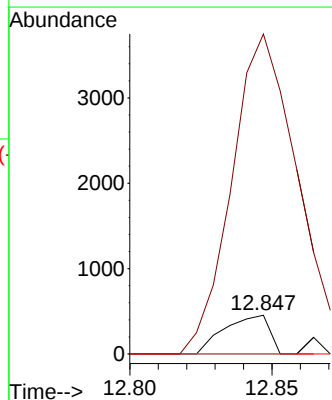
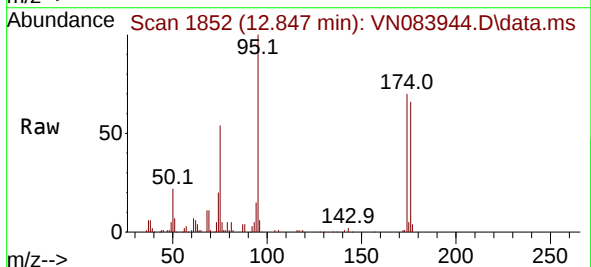
Instrument :  
MSVOA\_N  
ClientSampleId :

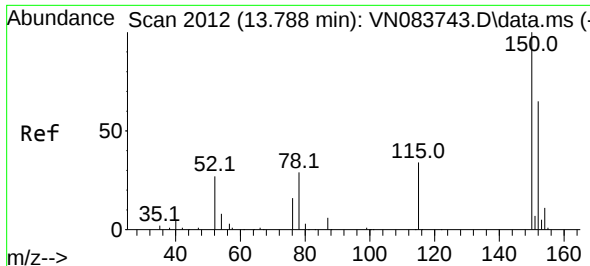
Tgt Ion:117 Resp: 228921  
Ion Ratio Lower Upper  
117 100  
82 59.0 47.4 71.0  
119 32.0 26.3 39.5



#71  
Bromoform  
Concen: 0.422 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.271 min  
Lab File: VN083944.D  
Acq: 17 Sep 2024 14:41

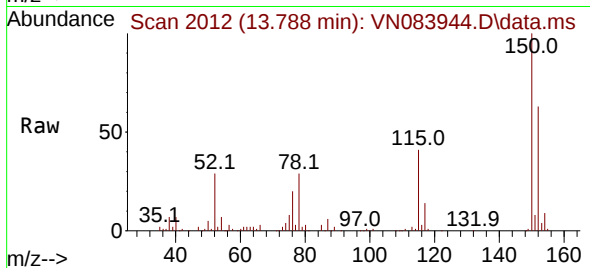
Tgt Ion:173 Resp: 501  
Ion Ratio Lower Upper  
173 100  
175 919.0 24.1 72.2#  
254 0.0 0.0 0.0



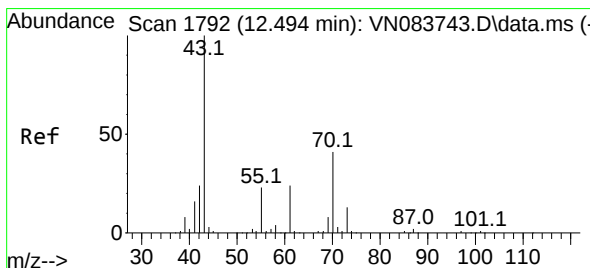
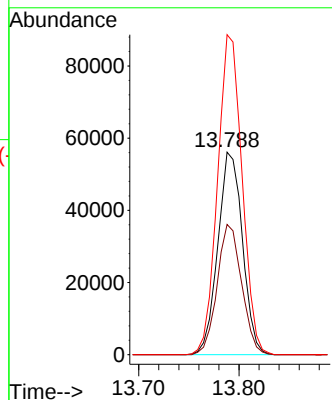
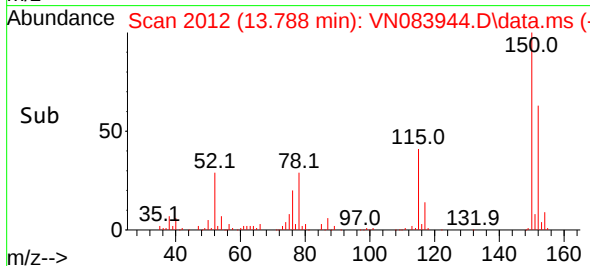


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VN083944.D  
 Acq: 17 Sep 2024 14:41

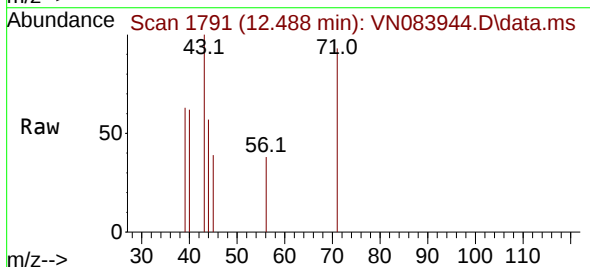
Instrument :  
 MSVOA\_N  
 ClientSampleId :



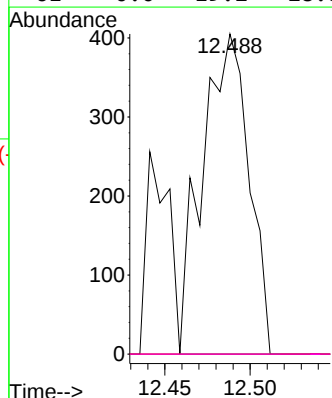
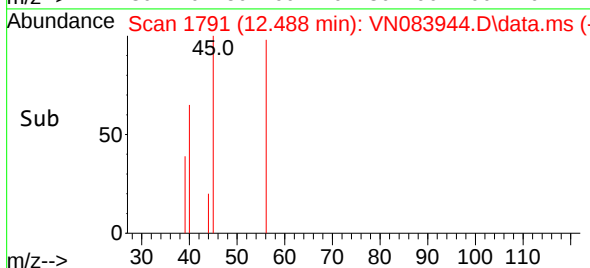
Tgt Ion:152 Resp: 95472  
 Ion Ratio Lower Upper  
 152 100  
 115 63.7 32.2 96.6  
 150 157.7 0.0 348.6

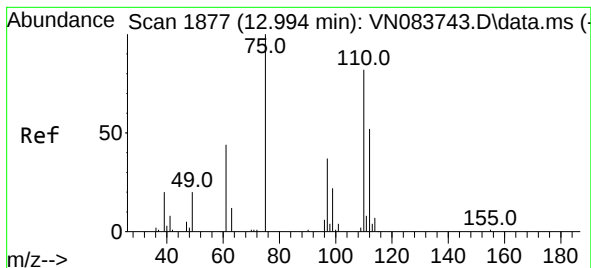


#74  
 N-ethyl acetate  
 Concen: 0.245 ug/l  
 RT: 12.488 min Scan# 1791  
 Delta R.T. -0.006 min  
 Lab File: VN083944.D  
 Acq: 17 Sep 2024 14:41



Tgt Ion: 43 Resp: 772  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 34.5 51.7#  
 55 0.0 18.6 28.0#  
 61 0.0 19.2 28.8#





#76

1,2,3-Trichloropropane

Concen: 33.938 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

Instrument :

MSVOA\_N

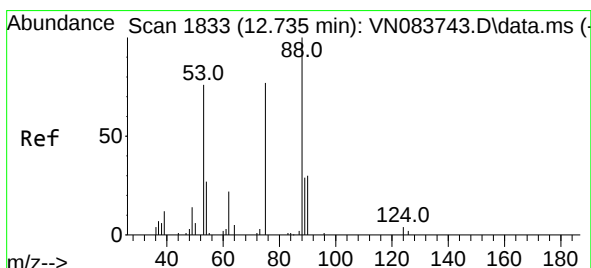
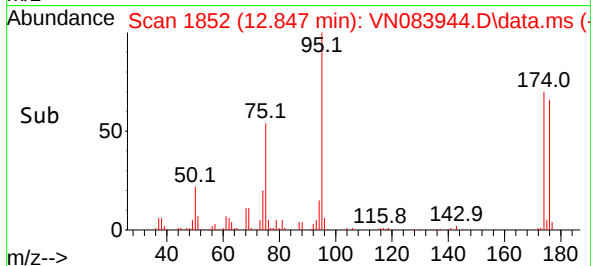
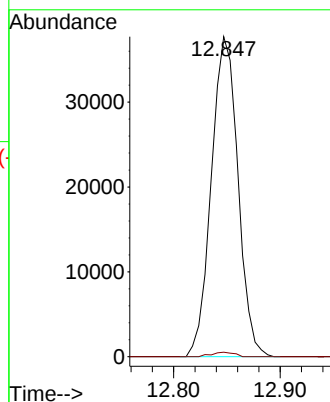
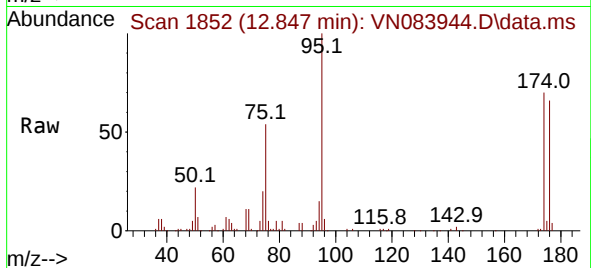
ClientSampleId :

Tgt Ion: 75 Resp: 65380

Ion Ratio Lower Upper

75 100

77 1.2 95.2 285.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 88.887 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN083944.D

Acq: 17 Sep 2024 14:41

Tgt Ion: 75 Resp: 65380

Ion Ratio Lower Upper

75 100

53 0.0 81.2 121.8#

89 0.0 35.7 53.5#

