

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071624\  
 Data File : VN082936.D  
 Acq On : 16 Jul 2024 15:17  
 Operator : JC\MD  
 Sample : PB162077TB  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 17 00:56:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070824W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 08 13:46:04 2024  
 Response via : Initial Calibration

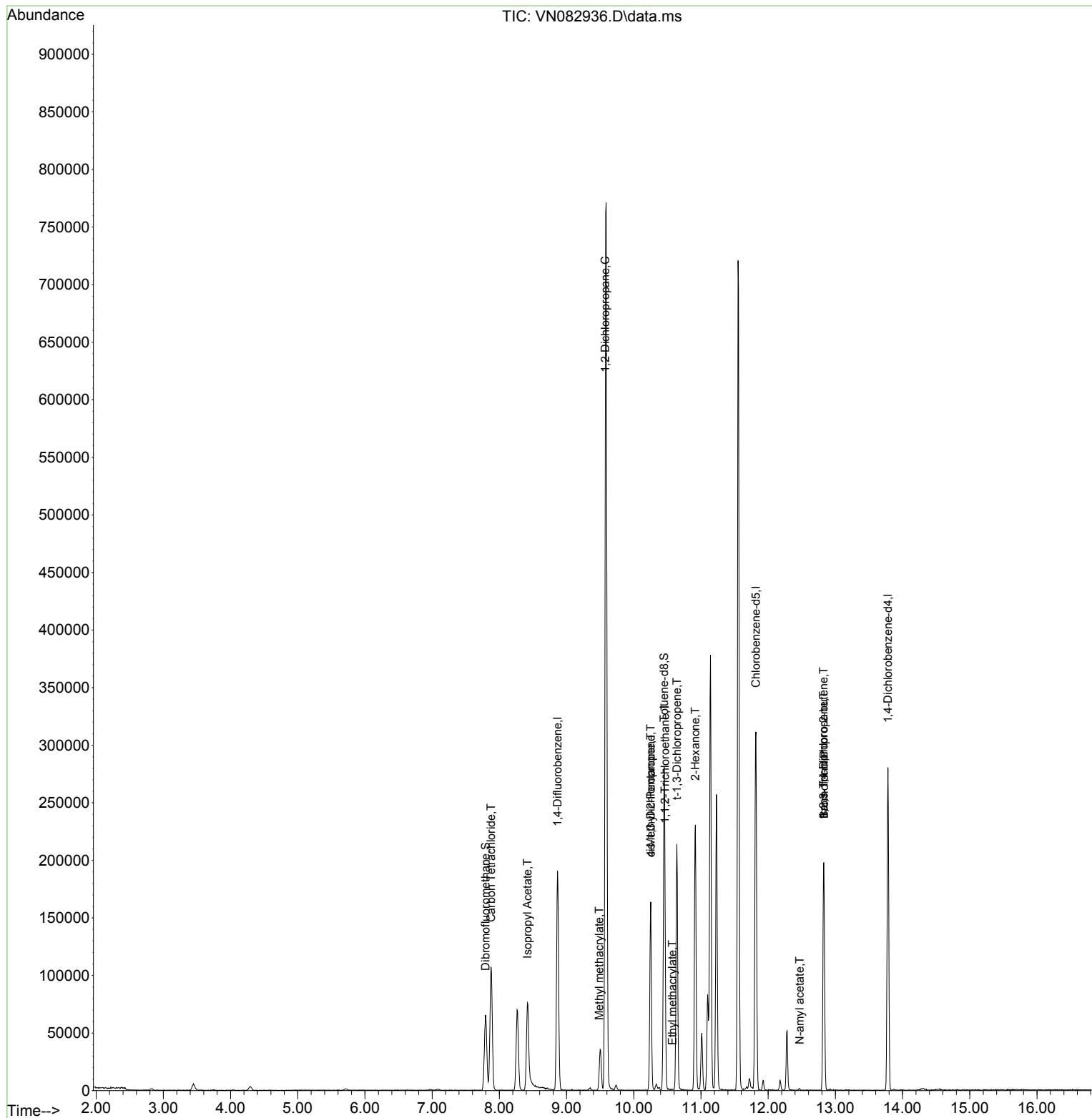
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 0.000  | 168   | 0        | 0.000    | ug/l   | -8.23    |
| 34) 1,4-Difluorobenzene       | 8.865  | 114   | 169231   | 50.000   | ug/l   | -0.24    |
| 63) Chlorobenzene-d5          | 11.817 | 117   | 149070   | 50.000   | ug/l   | -0.05    |
| 72) 1,4-Dichlorobenzene-d4    | 13.782 | 152   | 71328    | 50.000   | ug/l   | -0.01    |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 0.000  | 65    | 0        | 0.000    | ug/l   |          |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 0.000%#  |
| 35) Dibromofluoromethane      | 7.794  | 113   | 50270    | 46.293   | ug/l   | -0.37    |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 92.580%  |
| 50) Toluene-d8                | 10.453 | 98    | 193799   | 48.319   | ug/l   | -0.12    |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 96.640%  |
| 62) 4-Bromofluorobenzene      | 0.000  | 95    | 0        | 0.000    | ug/l   |          |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery | =      | 0.000%#  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 38) Carbon Tetrachloride      | 7.877  | 117   | 6810     | 3.778    | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.418  | 43    | 97930    | 33.068   | ug/l # | 89       |
| 45) 1,2-Dichloropropane       | 9.576  | 63    | 880      | 0.818    | ug/l # | 44       |
| 48) Methyl methacrylate       | 9.488  | 41    | 2312     | 1.934    | ug/l # | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.253 | 43    | 60335    | 39.927   | ug/l # | 51       |
| 53) t-1,3-Dichloropropene     | 10.641 | 75    | 371      | 0.208    | ug/l # | 1        |
| 54) cis-1,3-Dichloropropene   | 10.253 | 75    | 27674    | 14.664   | ug/l # | 61       |
| 55) 1,1,2-Trichloroethane     | 10.465 | 97    | 5241     | 4.954    | ug/l # | 1        |
| 56) Ethyl methacrylate        | 10.576 | 69    | 350      | 0.213    | ug/l # | 17       |
| 59) 2-Hexanone                | 10.918 | 43    | 161076   | 143.369  | ug/l # | 29       |
| 71) Bromoform                 | 12.829 | 173   | 576      | 0.645    | ug/l # | 1        |
| 74) N-amyl acetate            | 12.470 | 43    | 611      | 0.285    | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 12.823 | 75    | 37157    | 30.215   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.823 | 75    | 37157    | 59.425   | ug/l # | 6        |
| -----                         |        |       |          |          |        |          |

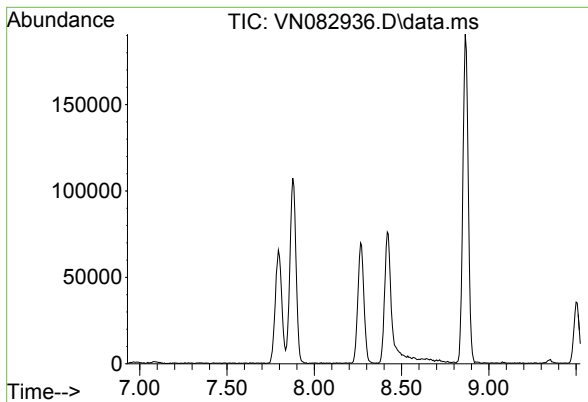
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

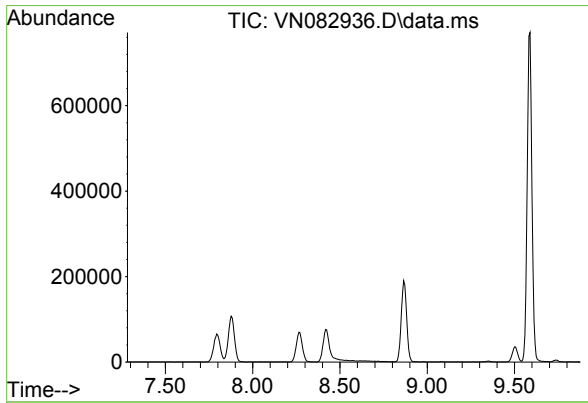
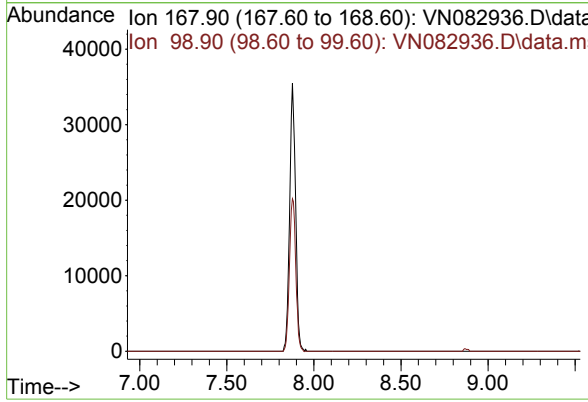
Quant Time: Jul 17 00:56:24 2024  
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Quant Title : SW846 8260  
QLast Update : Mon Jul 08 13:46:04 2024  
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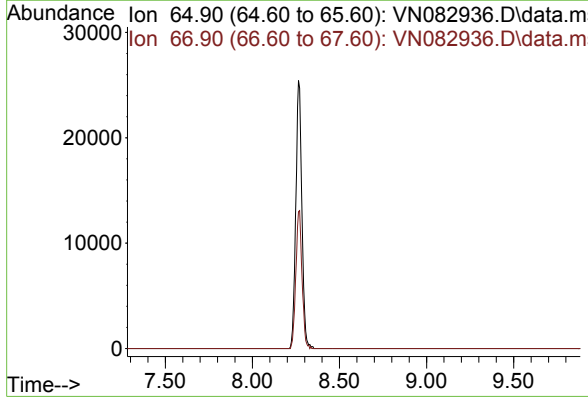


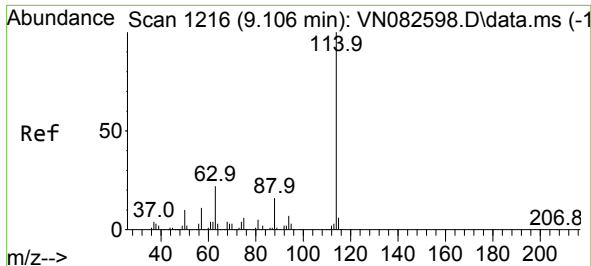
#1  
 Pentafluorobenzene  
 Concen: 0.000 ug/l  
 Expected RT: 8.23 min  
 Lab File: VN082936.D  
 Acq: 16 Jul 2024 15:17  
 Tgt Ion: 168  
 Sig Exp Ratio  
 168 100  
 99 60.3

Instrument :  
 MSVOA\_N  
 ClientSampleId :



#33  
 1,2-Dichloroethane-d4  
 Concen: 0.000 ug/l  
 Expected RT: 8.58 min  
 Lab File: VN082936.D  
 Acq: 16 Jul 2024 15:17  
 Tgt Ion: 65  
 Sig Exp Ratio  
 65 100  
 67 52.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.865 min Scan# 1175

Delta R.T. -0.241 min

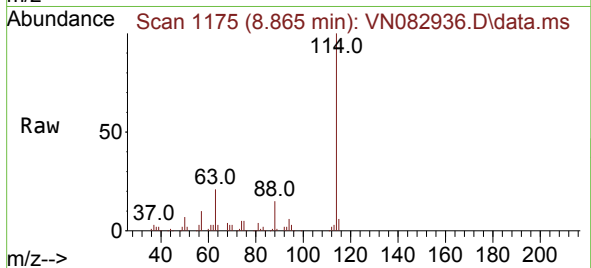
Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

Instrument :

MSVOA\_N

ClientSampleId :



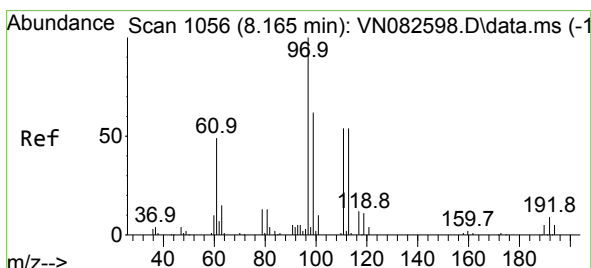
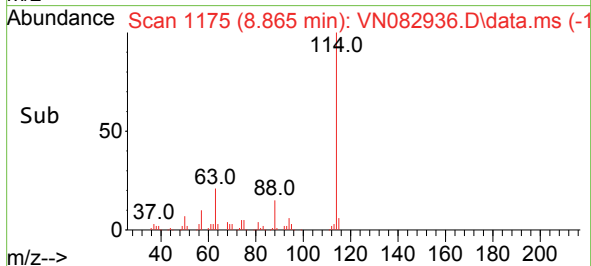
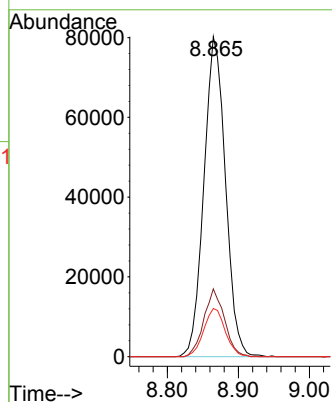
Tgt Ion:114 Resp: 169231

Ion Ratio Lower Upper

114 100

63 21.2 0.0 44.6

88 15.1 0.0 31.4



#35

Dibromofluoromethane

Concen: 46.293 ug/l

RT: 7.794 min Scan# 993

Delta R.T. -0.371 min

Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

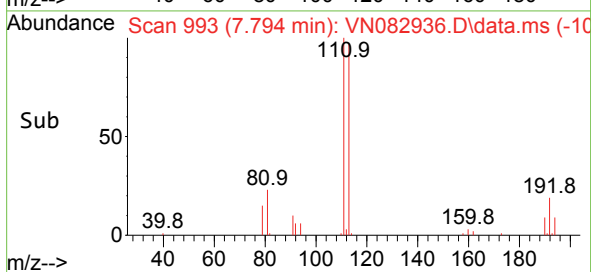
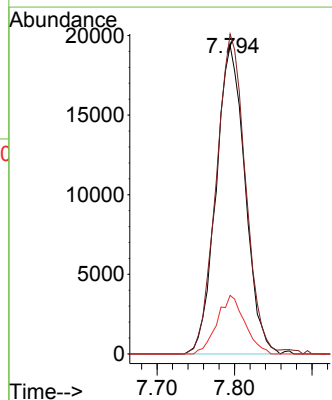
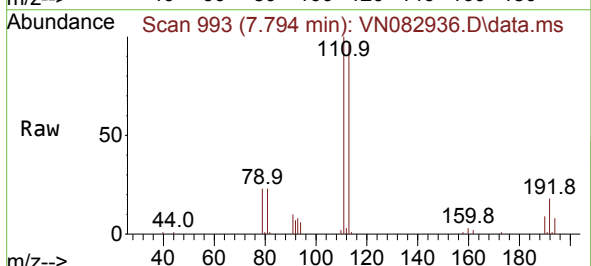
Tgt Ion:113 Resp: 50270

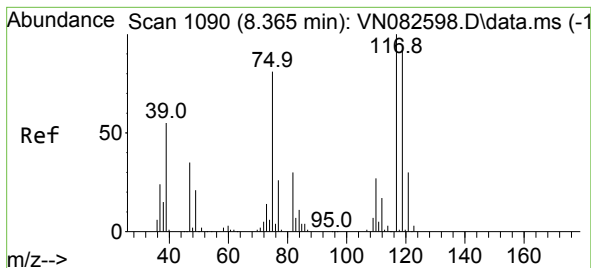
Ion Ratio Lower Upper

113 100

111 104.7 82.4 123.6

192 18.2 14.9 22.3





#38

Carbon Tetrachloride

Concen: 3.778 ug/l

RT: 7.877 min Scan# 1097

Delta R.T. -0.488 min

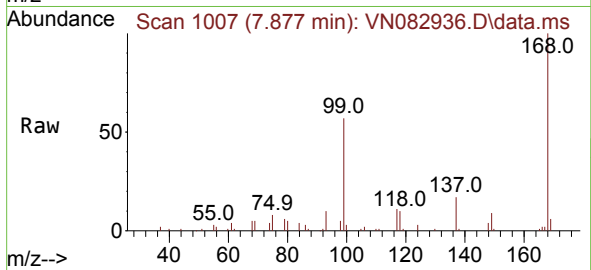
Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

Instrument :

MSVOA\_N

ClientSampleId :



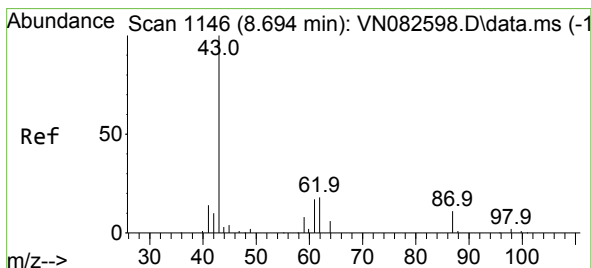
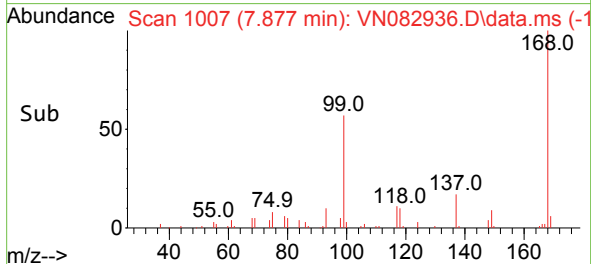
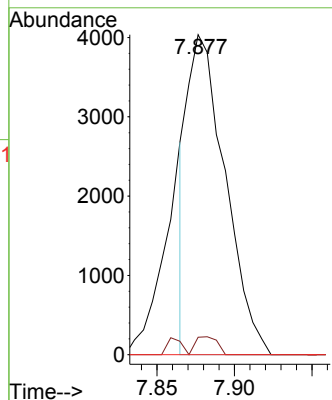
Tgt Ion:117 Resp: 6810

Ion Ratio Lower Upper

117 100

119 5.5 74.9 112.3#

121 0.0 24.3 36.5#



#43

Isopropyl Acetate

Concen: 33.068 ug/l

RT: 8.418 min Scan# 1099

Delta R.T. -0.276 min

Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

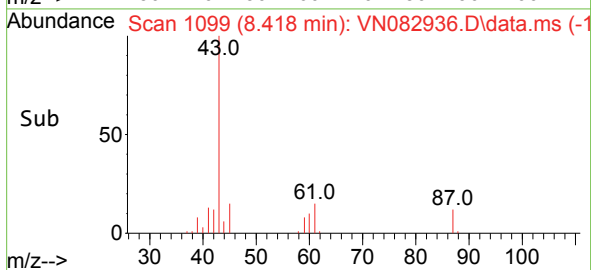
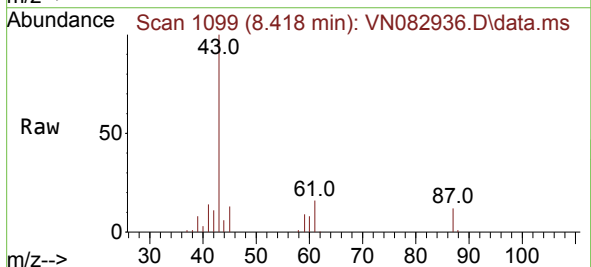
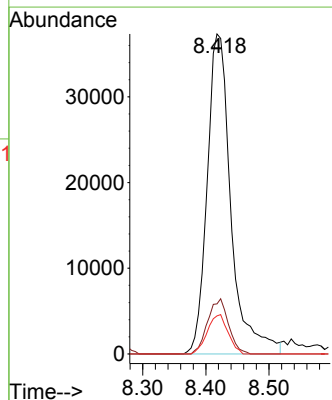
Tgt Ion: 43 Resp: 97930

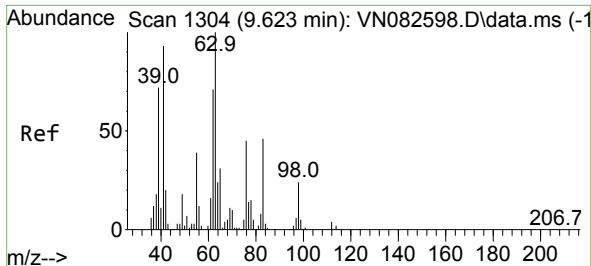
Ion Ratio Lower Upper

43 100

61 15.1 17.8 26.6#

87 10.7 8.2 12.2





#45

1,2-Dichloropropane

Concen: 0.818 ug/l

RT: 9.576 min Scan# 11

Delta R.T. -0.047 min

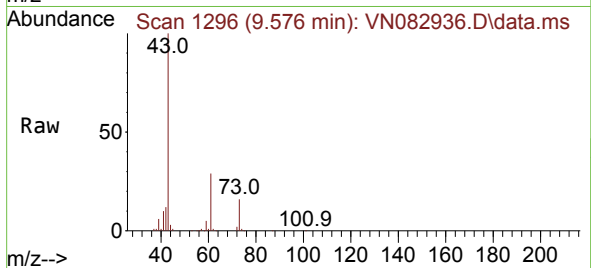
Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

Instrument :

MSVOA\_N

ClientSampleId :

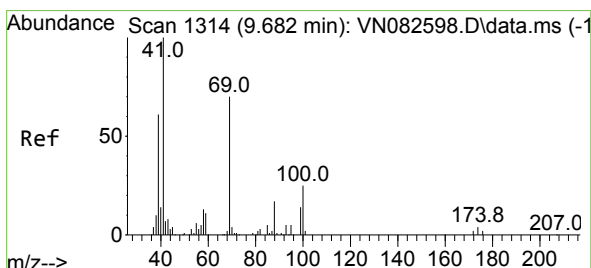
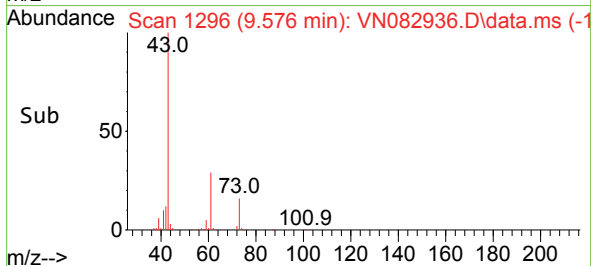
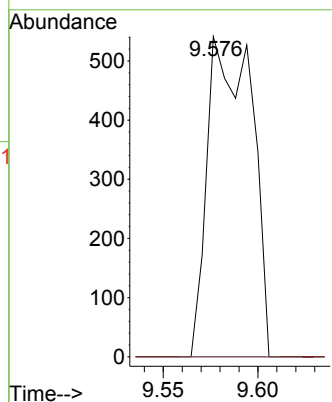


Tgt Ion: 63 Resp: 880

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



#48

Methyl methacrylate

Concen: 1.934 ug/l

RT: 9.488 min Scan# 1281

Delta R.T. -0.194 min

Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

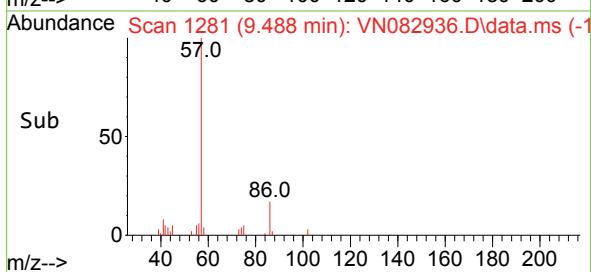
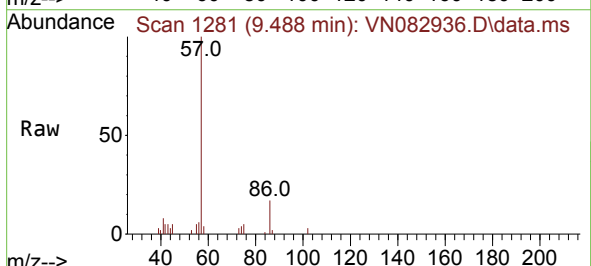
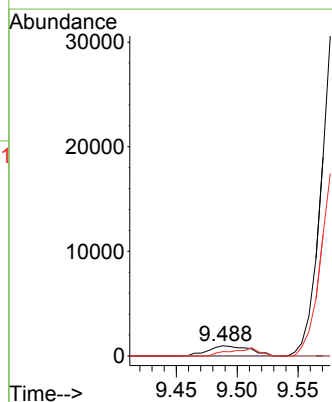
Tgt Ion: 41 Resp: 2312

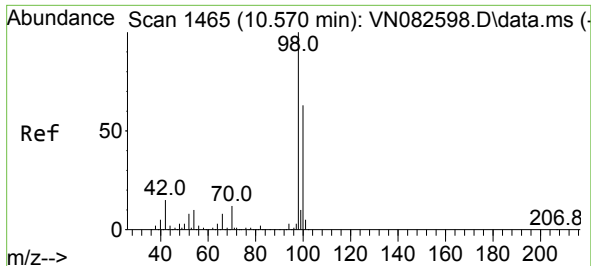
Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

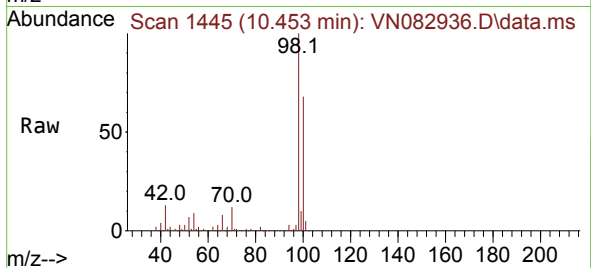
39 0.0 50.3 75.5#



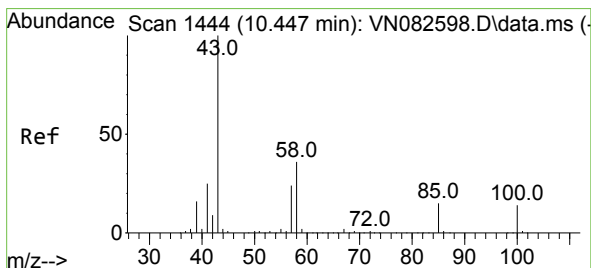
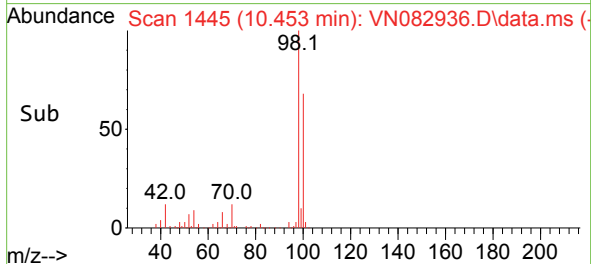
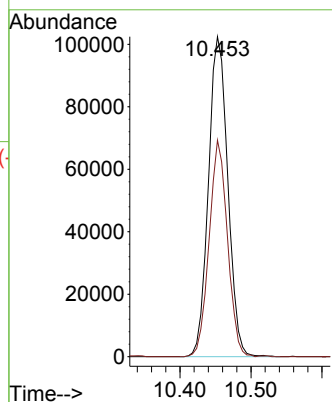


#50  
Toluene-d8  
Concen: 48.319 ug/l  
RT: 10.453 min Scan# 1411  
Delta R.T. -0.117 min  
Lab File: VN082936.D  
Acq: 16 Jul 2024 15:17

Instrument :  
MSVOA\_N  
ClientSampleId :

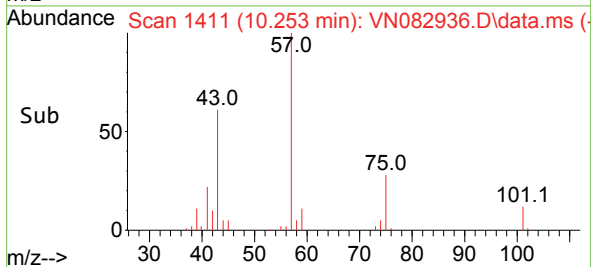
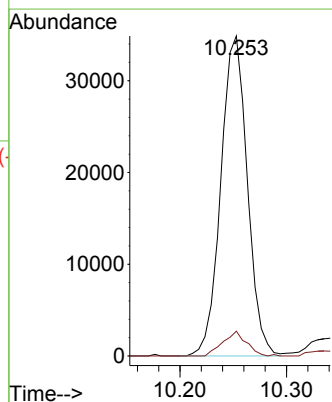
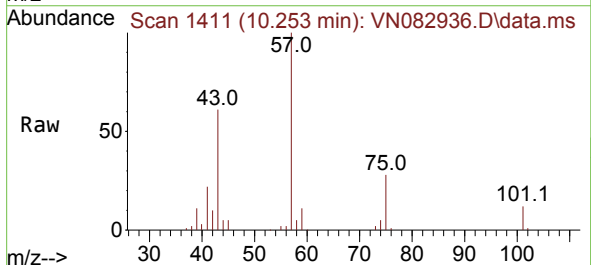


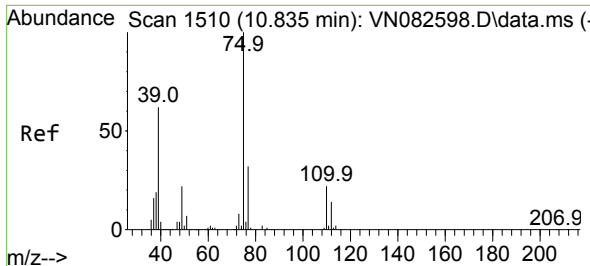
Tgt Ion: 98 Resp: 193799  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.5 77.3



#51  
4-Methyl-2-Pentanone  
Concen: 39.927 ug/l  
RT: 10.253 min Scan# 1411  
Delta R.T. -0.194 min  
Lab File: VN082936.D  
Acq: 16 Jul 2024 15:17

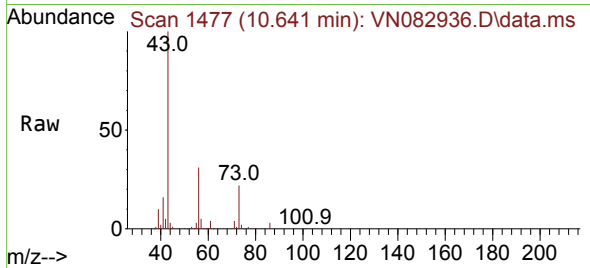
Tgt Ion: 43 Resp: 60335  
Ion Ratio Lower Upper  
43 100  
58 6.9 28.2 42.4#



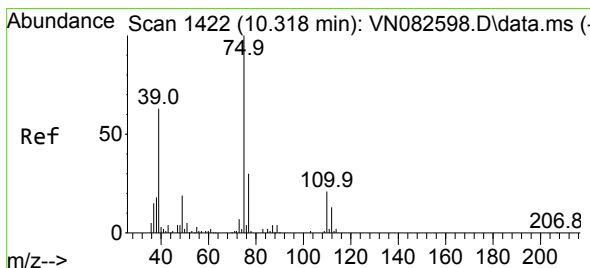
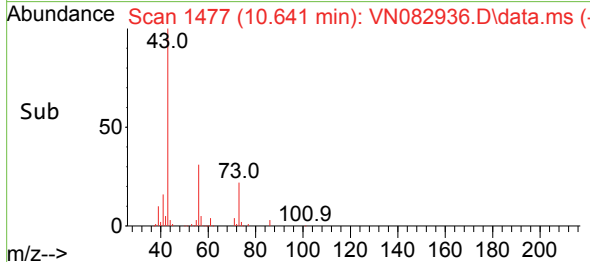
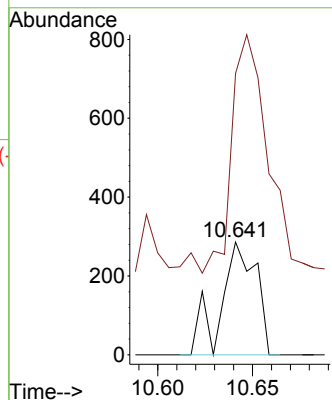


#53  
 t-1,3-Dichloropropene  
 Concen: 0.208 ug/l  
 RT: 10.641 min Scan# 1411  
 Delta R.T. -0.194 min  
 Lab File: VN082936.D  
 Acq: 16 Jul 2024 15:17

Instrument :  
 MSVOA\_N  
 ClientSampleId :

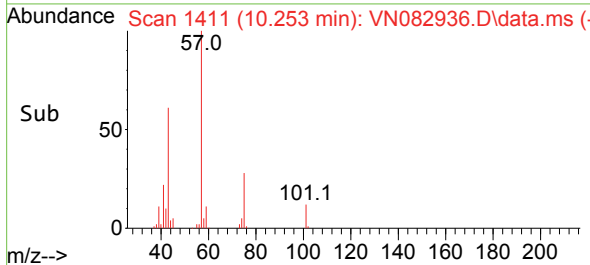
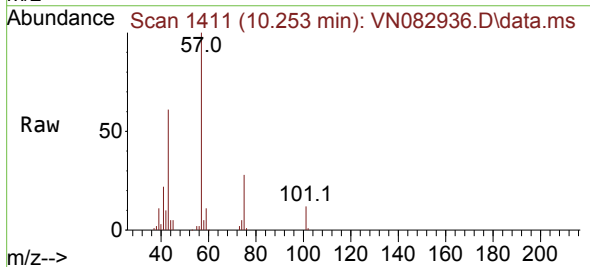
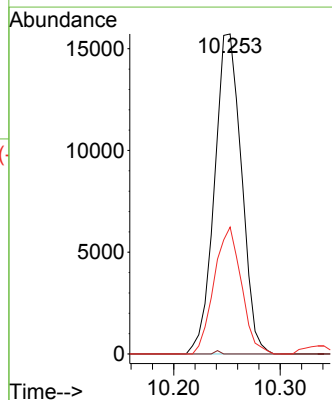


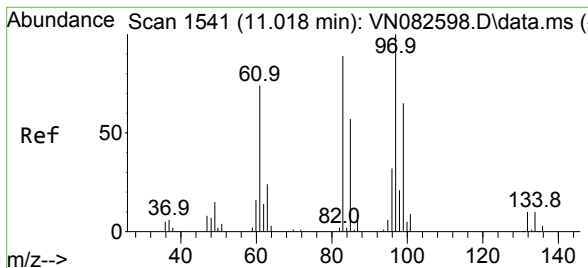
Tgt Ion: 75 Resp: 371  
 Ion Ratio Lower Upper  
 75 100  
 77 171.7 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 14.664 ug/l  
 RT: 10.253 min Scan# 1411  
 Delta R.T. -0.065 min  
 Lab File: VN082936.D  
 Acq: 16 Jul 2024 15:17

Tgt Ion: 75 Resp: 27674  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.3 36.5#  
 39 39.7 50.5 75.7#





#55

1,1,2-Trichloroethane

Concen: 4.954 ug/l

RT: 10.465 min Scan# 1447

Delta R.T. -0.553 min

Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

Instrument :

MSVOA\_N

ClientSampleId :

Tgt Ion: 97 Resp: 5241

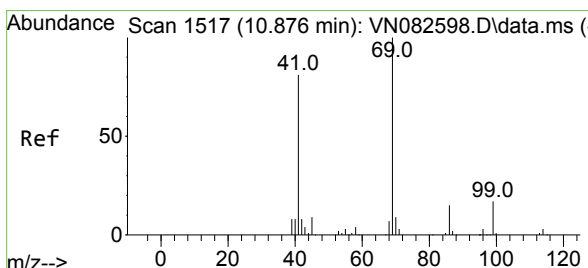
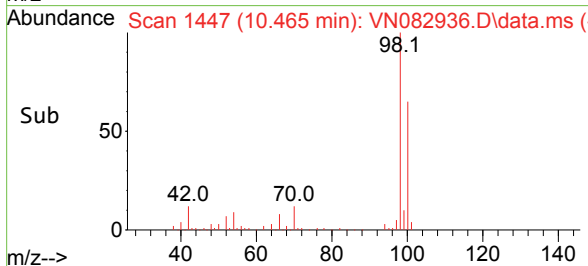
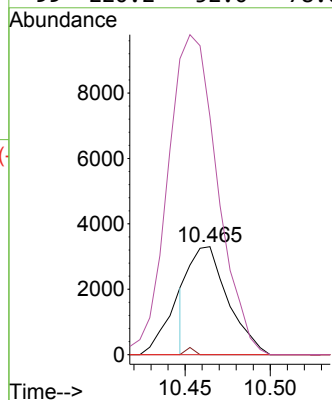
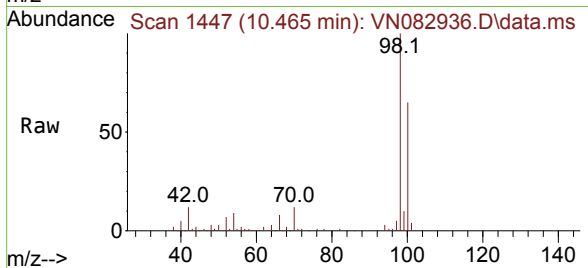
Ion Ratio Lower Upper

97 100

83 0.0 71.4 107.0#

85 0.0 45.8 68.6#

99 220.2 52.0 78.0#



#56

Ethyl methacrylate

Concen: 0.213 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.300 min

Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

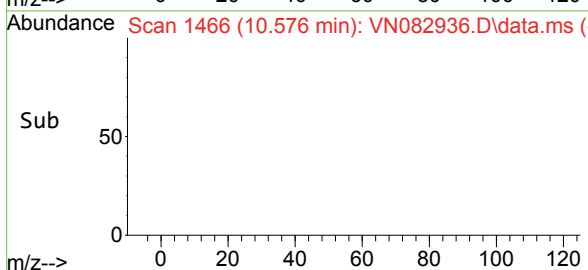
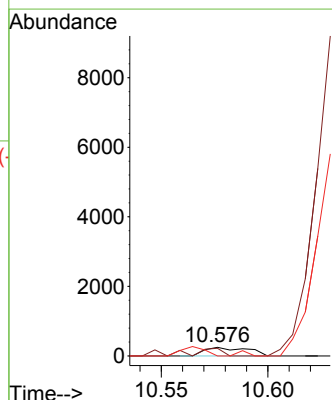
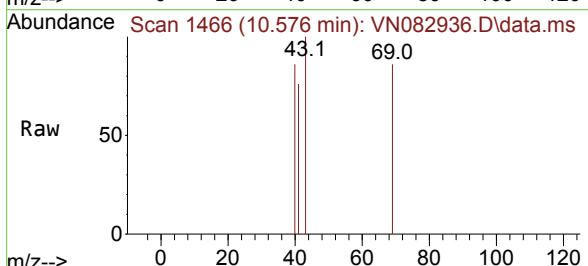
Tgt Ion: 69 Resp: 350

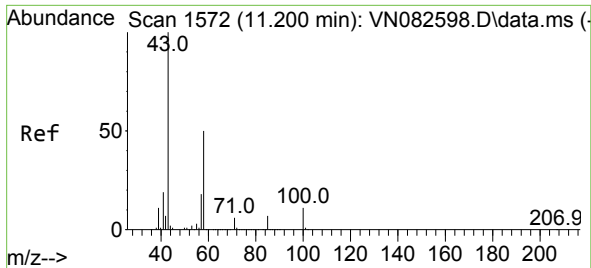
Ion Ratio Lower Upper

69 100

41 0.0 63.4 95.2#

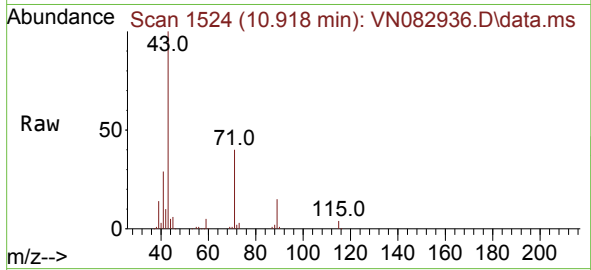
39 0.0 37.4 56.0#



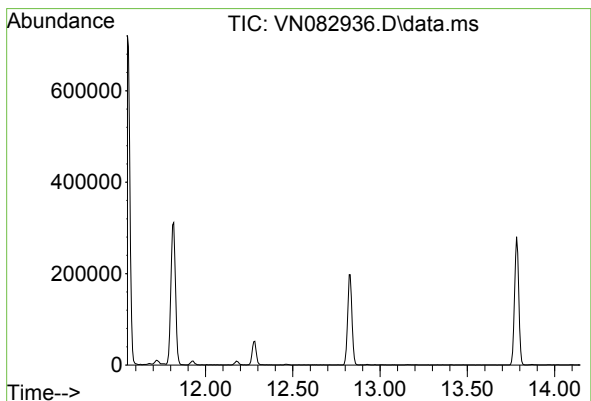
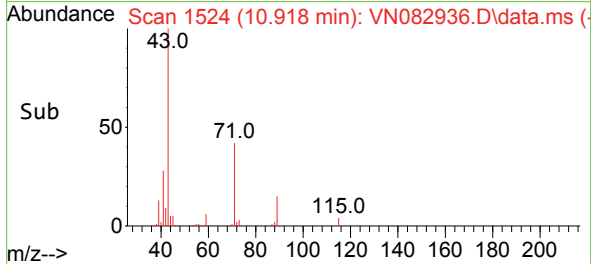
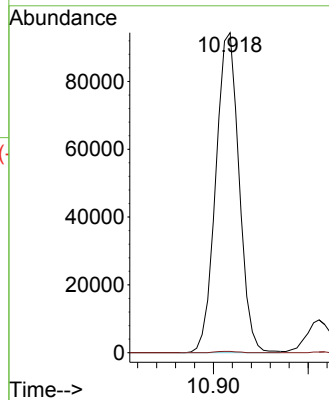


#59  
2-Hexanone  
Concen: 143.369 ug/l  
RT: 10.918 min Scan# 1  
Delta R.T. -0.282 min  
Lab File: VN082936.D  
Acq: 16 Jul 2024 15:17

Instrument :  
MSVOA\_N  
ClientSampleId :



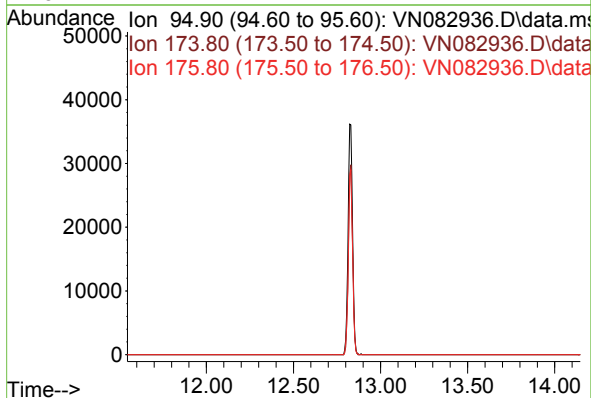
Tgt Ion: 43 Resp: 161076  
Ion Ratio Lower Upper  
43 100  
58 0.4 24.6 73.8#



#62  
4-Bromofluorobenzene  
Concen: 0.000 ug/l  
Expected RT: 12.85 min

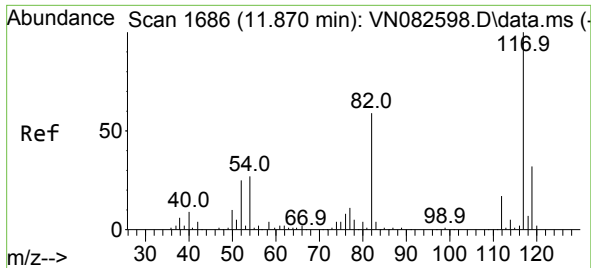
Lab File: VN082936.D  
Acq: 16 Jul 2024 15:17

Tgt Ion: 95  
Sig Exp Ratio  
95 100  
174 79.6  
176 73.8



Ion 173.80 (173.50 to 174.50): VN082936.D\data.ms

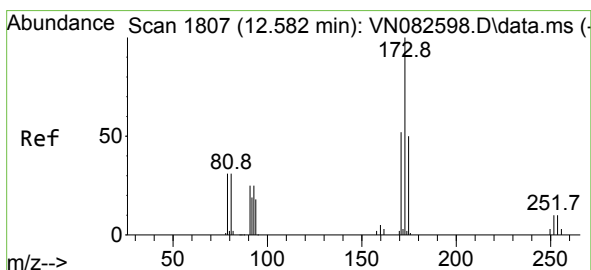
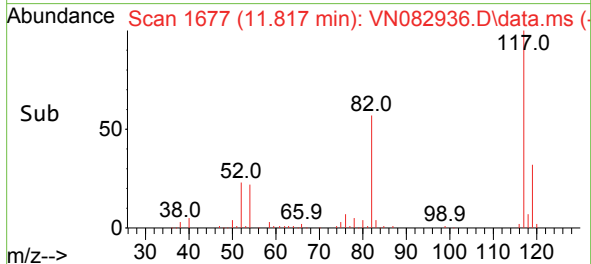
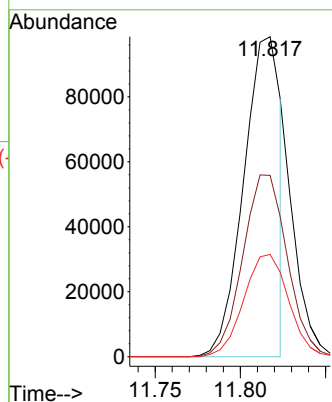
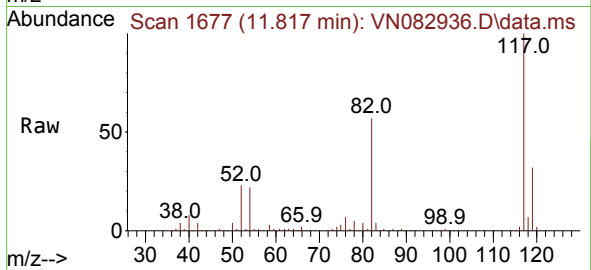
Ion 175.80 (175.50 to 176.50): VN082936.D\data.ms



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.817 min Scan# 117  
Delta R.T. -0.053 min  
Lab File: VN082936.D  
Acq: 16 Jul 2024 15:17

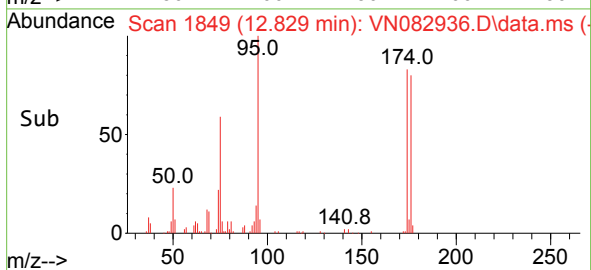
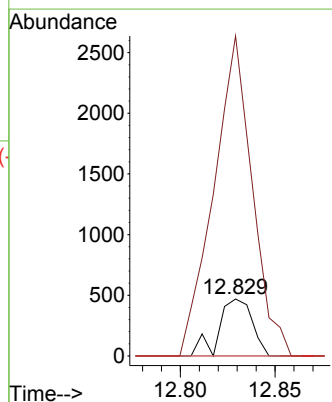
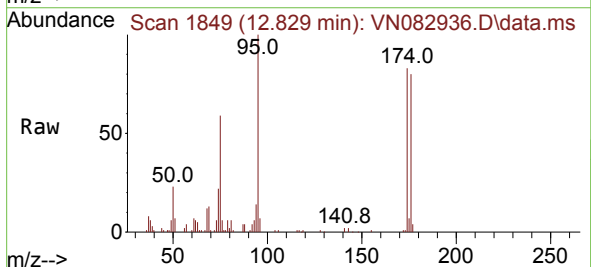
Instrument :  
MSVOA\_N  
ClientSampleId :

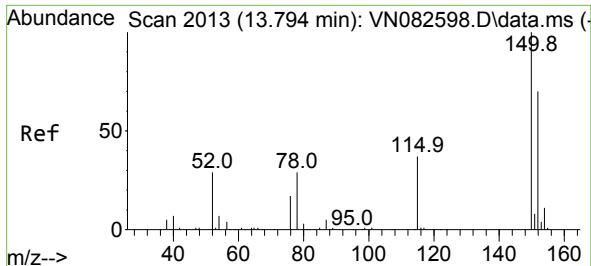
Tgt Ion:117 Resp: 149070  
Ion Ratio Lower Upper  
117 100  
82 56.7 47.5 71.3  
119 31.9 25.6 38.4



#71  
Bromoform  
Concen: 0.645 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.247 min  
Lab File: VN082936.D  
Acq: 16 Jul 2024 15:17

Tgt Ion:173 Resp: 576  
Ion Ratio Lower Upper  
173 100  
175 648.1 24.0 72.0#  
254 0.0 0.0 0.0

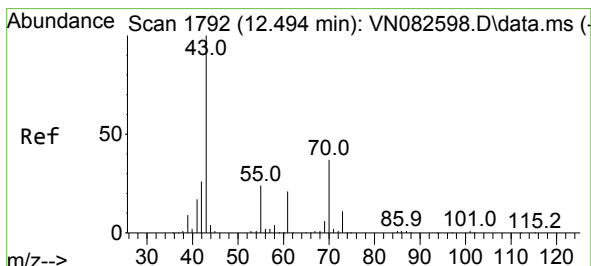
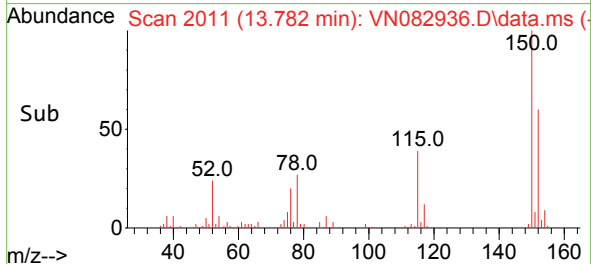
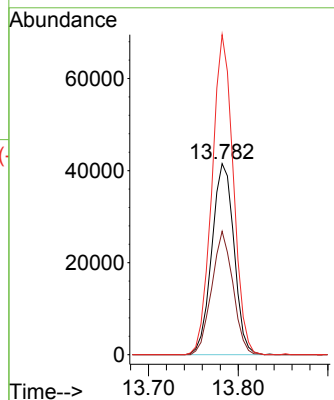
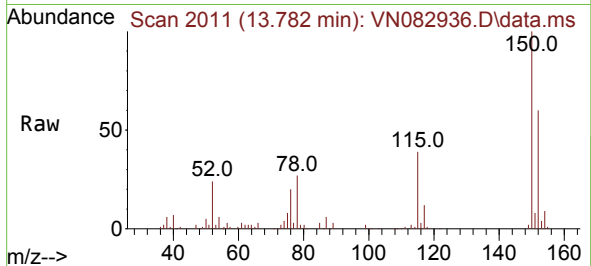




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.782 min Scan# 2013  
 Delta R.T. -0.012 min  
 Lab File: VN082936.D  
 Acq: 16 Jul 2024 15:17

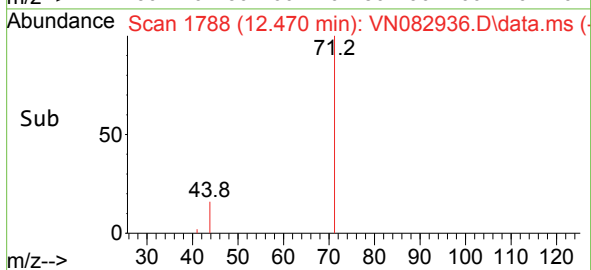
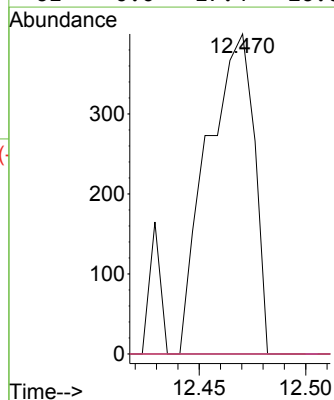
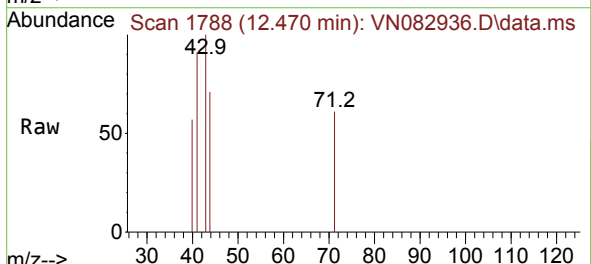
Instrument :  
 MSVOA\_N  
 ClientSampleId :

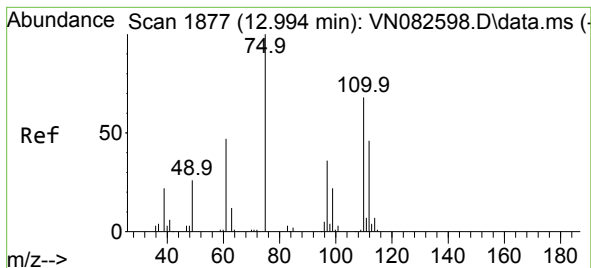
Tgt Ion:152 Resp: 71328  
 Ion Ratio Lower Upper  
 152 100  
 115 61.7 30.6 91.6  
 150 160.8 0.0 348.6



#74  
 N-ethyl acetate  
 Concen: 0.285 ug/l  
 RT: 12.470 min Scan# 1788  
 Delta R.T. -0.024 min  
 Lab File: VN082936.D  
 Acq: 16 Jul 2024 15:17

Tgt Ion: 43 Resp: 611  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 29.8 44.6#  
 55 0.0 18.7 28.1#  
 61 0.0 17.4 26.0#





#76

1,2,3-Trichloropropane

Concen: 30.215 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. -0.171 min

Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

Instrument :

MSVOA\_N

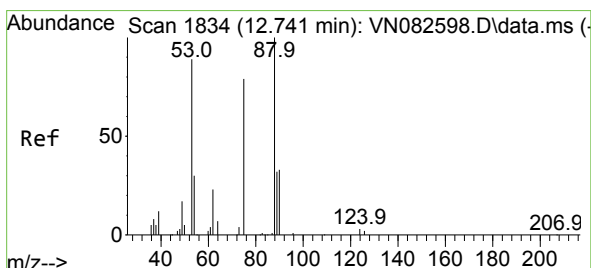
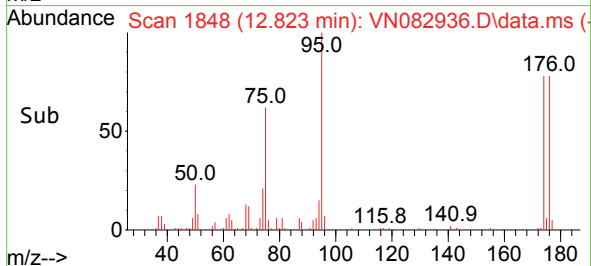
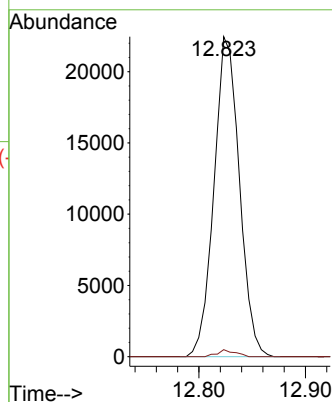
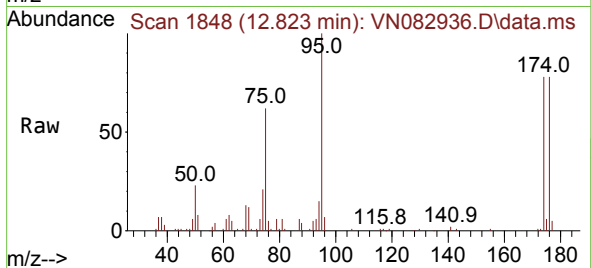
ClientSampleId :

Tgt Ion: 75 Resp: 37157

Ion Ratio Lower Upper

75 100

77 1.5 110.9 332.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.425 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. 0.082 min

Lab File: VN082936.D

Acq: 16 Jul 2024 15:17

Tgt Ion: 75 Resp: 37157

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 36.3 54.5#

