

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091024\  
 Data File : VN083758.D  
 Acq On : 10 Sep 2024 17:44  
 Operator : JC\MD  
 Sample : P3841-03DL 40X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-11B-37.5-090424DL

Quant Time: Sep 11 03:17:11 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 02:47:22 2024  
 Response via : Initial Calibration

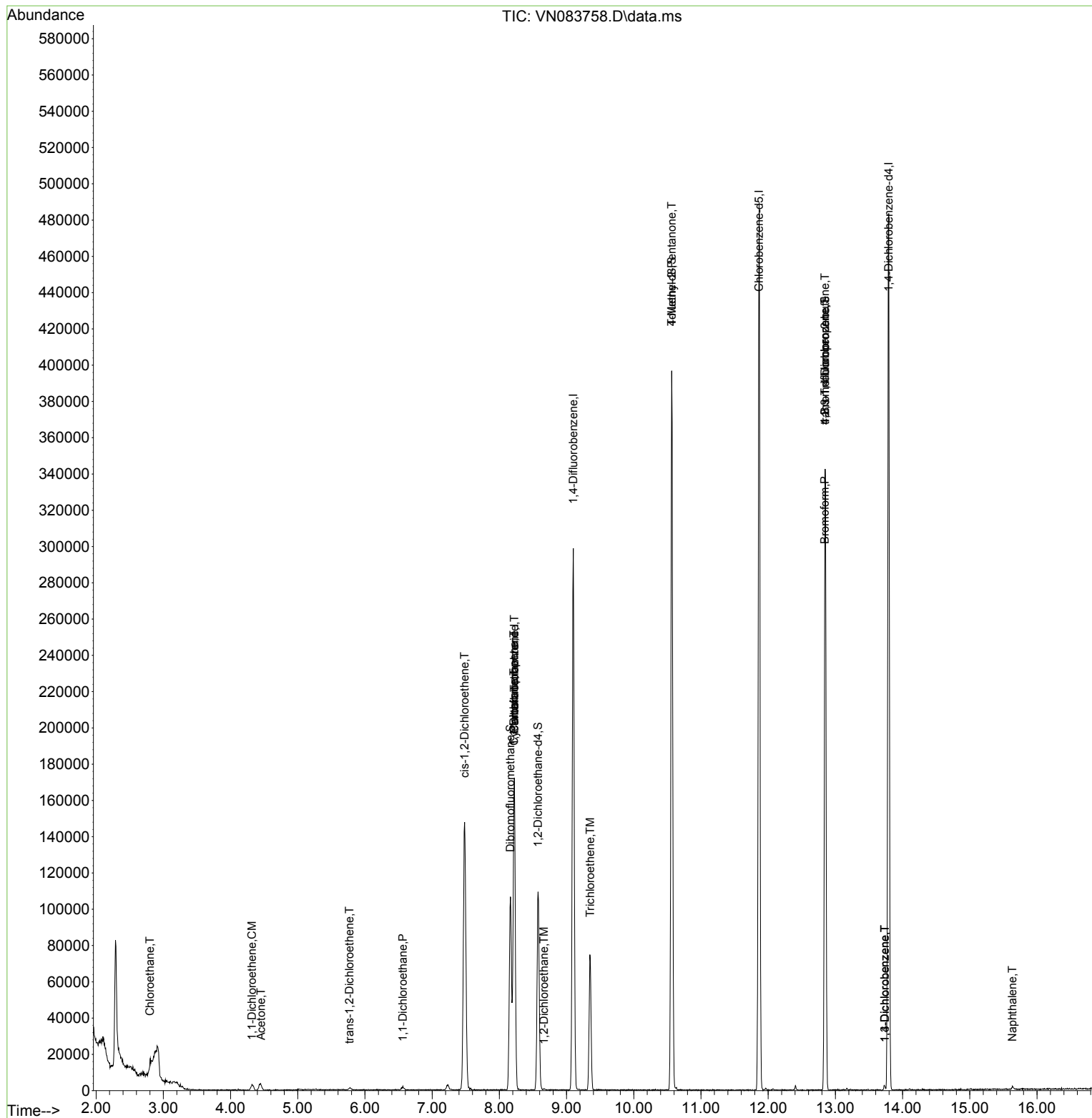
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 117519   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 241588   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 260038   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 122831   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.576  | 65    | 92896    | 52.424    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 104.840% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 74953    | 48.463    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 96.920%  |          |
| 50) Toluene-d8                | 10.565 | 98    | 262523   | 49.100    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 98.200%  |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 118521   | 53.728    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery  | = 107.460% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.365  | 50    | 1035     | Below Cal | #          | 41       |
| 6) Chloroethane               | 2.800  | 64    | 1640     | 1.563     | ug/l #     | 47       |
| 12) 1,1-Dichloroethene        | 4.318  | 96    | 2103     | 1.654     | ug/l #     | 72       |
| 16) Acetone                   | 4.453  | 43    | 171      | 0.241     | ug/l #     | 45       |
| 18) Methyl Acetate            | 5.024  | 43    | 625      | Below Cal | #          | 52       |
| 21) trans-1,2-Dichloroethene  | 5.771  | 96    | 454      | 0.333     | ug/l #     | 53       |
| 24) 1,1-Dichloroethane        | 6.565  | 63    | 2764     | 1.029     | ug/l #     | 82       |
| 27) cis-1,2-Dichloroethene    | 7.482  | 96    | 84963    | 52.541    | ug/l       | 91       |
| 31) Cyclohexane               | 8.218  | 56    | 3455     | 1.349     | ug/l #     | 38       |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 11011    | 4.730     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 13220    | 5.006     | ug/l #     | 16       |
| 42) 1,2-Dichloroethane        | 8.665  | 62    | 626      | 0.239     | ug/l #     | 77       |
| 44) Trichloroethene           | 9.353  | 130   | 24866    | 15.325    | ug/l       | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43    | 1499     | 0.719     | ug/l #     | 1        |
| 71) Bromoform                 | 12.841 | 173   | 375      | 0.278     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 67246    | 27.818    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 67246    | 71.060    | ug/l #     | 9        |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146   | 1426     | 0.330     | ug/l       | 86       |
| 88) 1,4-Dichlorobenzene       | 13.735 | 146   | 1426     | 0.326     | ug/l       | 86       |
| 95) Naphthalene               | 15.635 | 128   | 2026     | 0.298     | ug/l #     | 78       |
| -----                         |        |       |          |           |            |          |

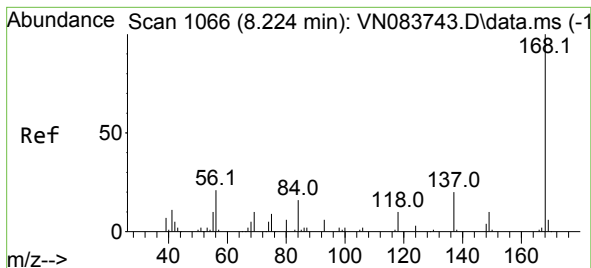
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
MW-11B-37.5-090424DL

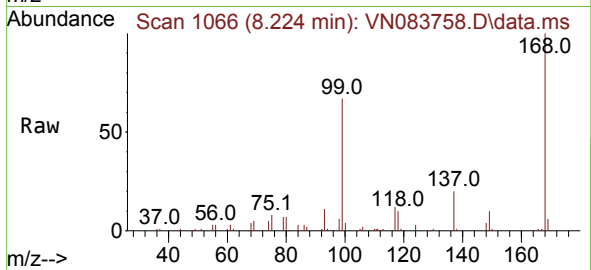
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 02:47:22 2024  
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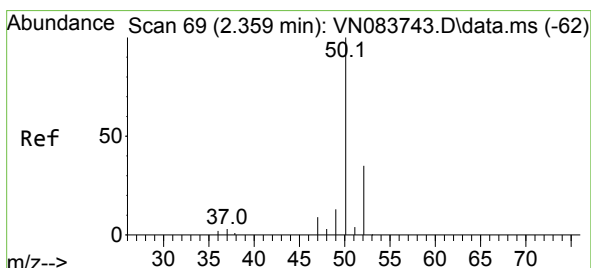
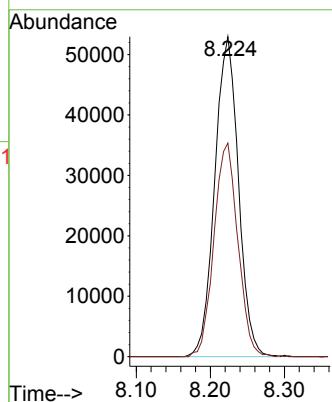
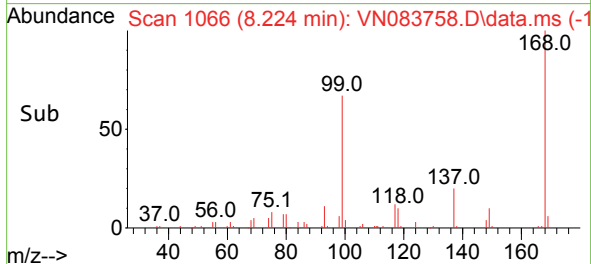


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11B-37.5-090424DL

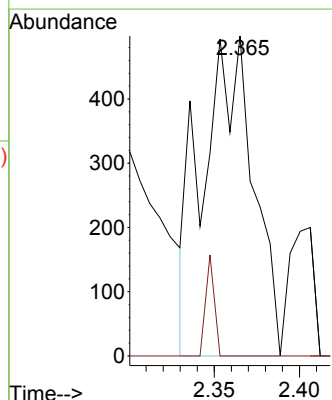
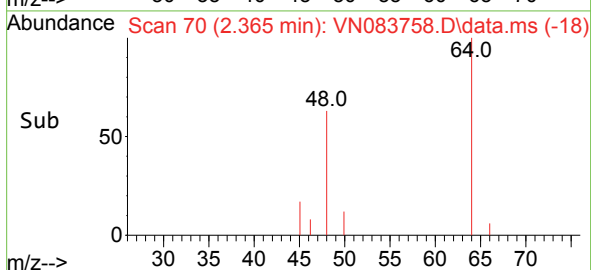
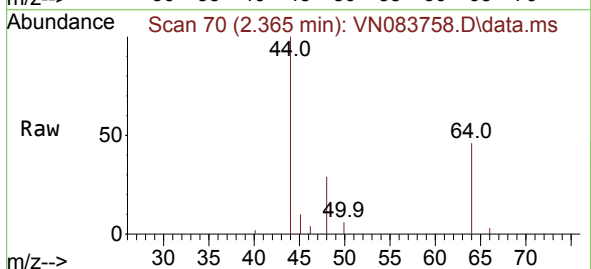


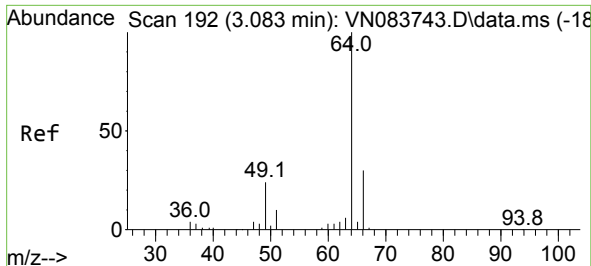
Tgt Ion:168 Resp: 117519  
Ion Ratio Lower Upper  
168 100  
99 66.8 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

Tgt Ion: 50 Resp: 1035  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#

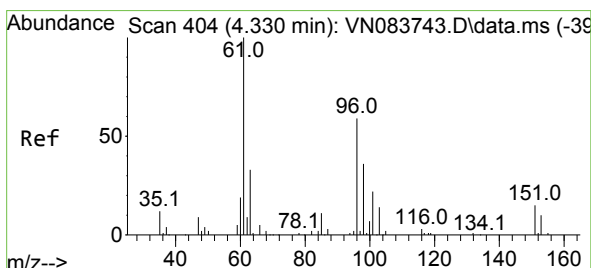
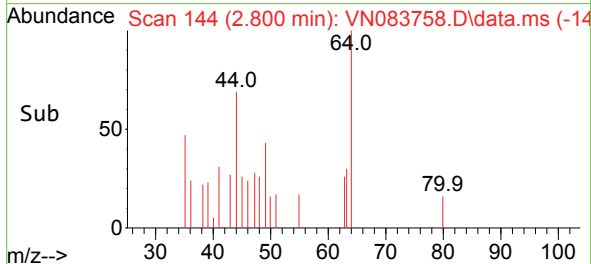
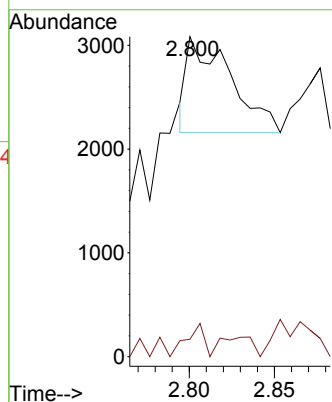
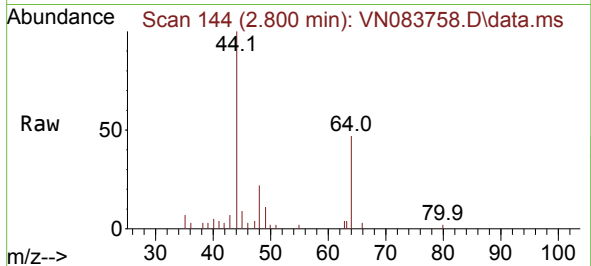




#6  
Chloroethane  
Concen: 1.563 ug/l  
RT: 2.800 min Scan# 14  
Delta R.T. -0.283 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

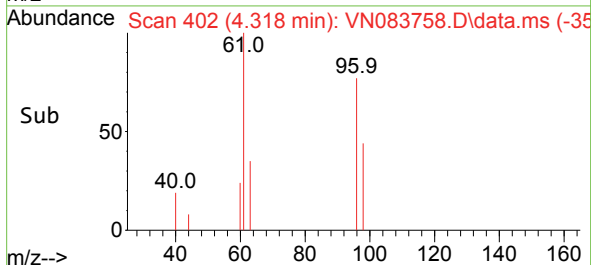
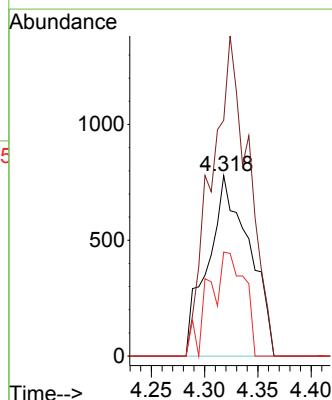
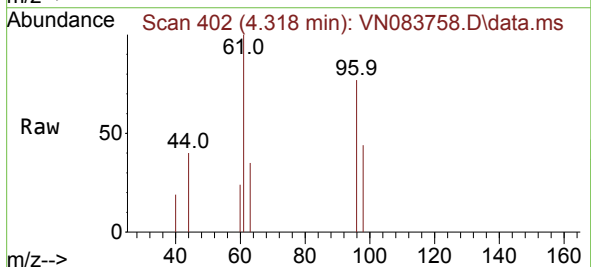
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11B-37.5-090424DL

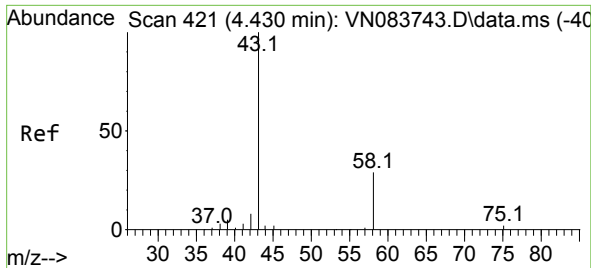
Tgt Ion: 64 Resp: 1640  
Ion Ratio Lower Upper  
64 100  
66 1.4 23.9 35.9#



#12  
1,1-Dichloroethene  
Concen: 1.654 ug/l  
RT: 4.318 min Scan# 402  
Delta R.T. -0.012 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

Tgt Ion: 96 Resp: 2103  
Ion Ratio Lower Upper  
96 100  
61 130.7 143.4 215.0#  
98 57.6 52.7 79.1





#16

Acetone

Concen: 0.241 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.023 min

Lab File: VN083758.D

Acq: 10 Sep 2024 17:44

Instrument :

MSVOA\_N

ClientSampleId :

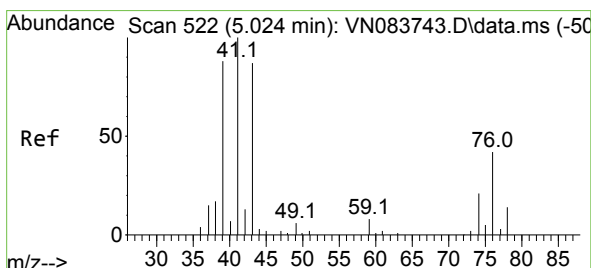
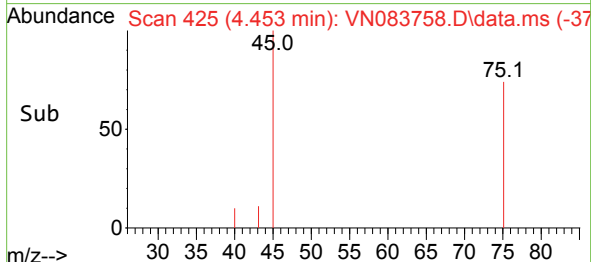
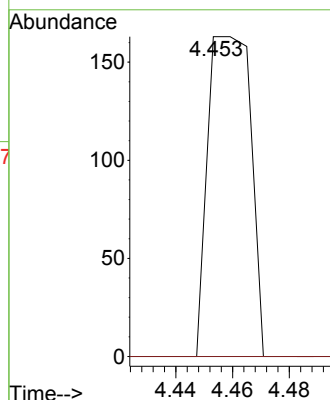
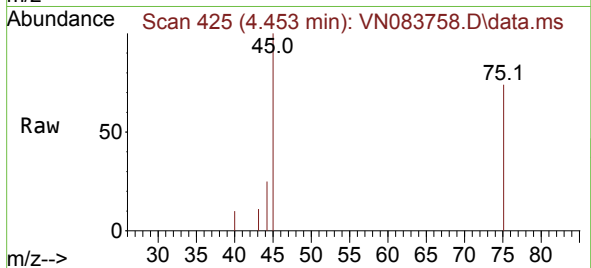
MW-11B-37.5-090424DL

Tgt Ion: 43 Resp: 171

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#18

Methyl Acetate

Concen: Below Cal

RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN083758.D

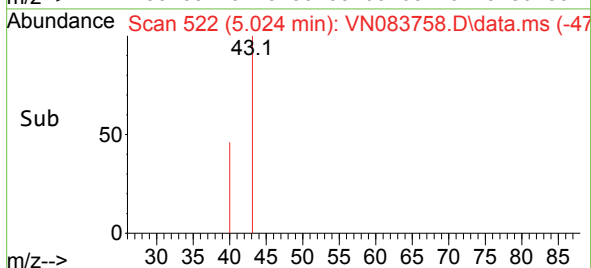
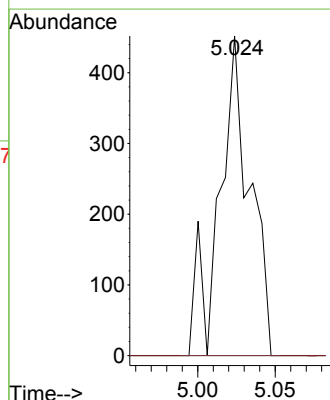
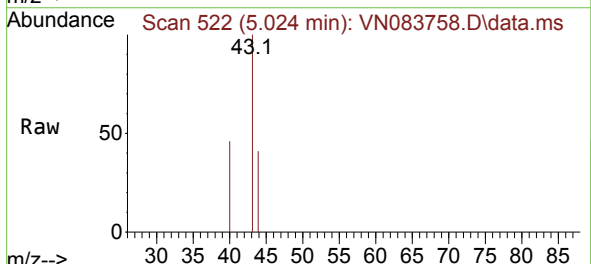
Acq: 10 Sep 2024 17:44

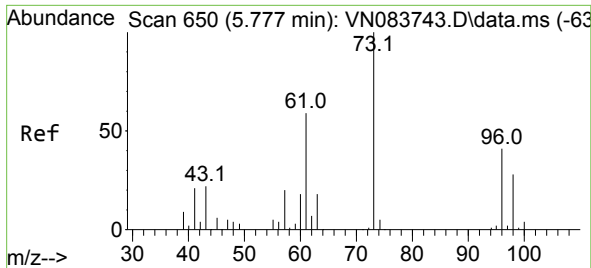
Tgt Ion: 43 Resp: 625

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.4#

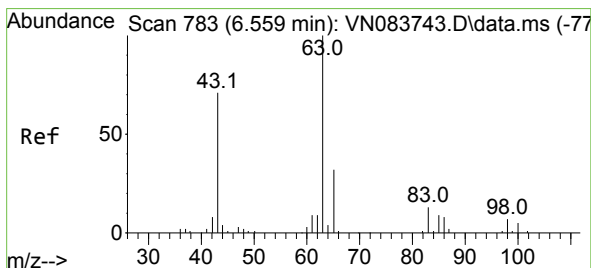
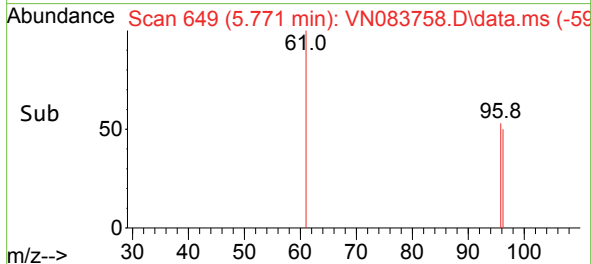
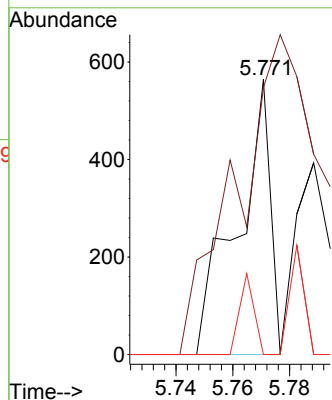
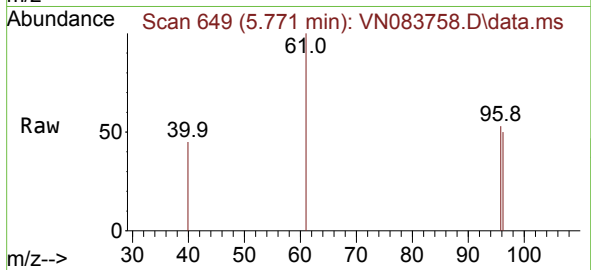




#21  
trans-1,2-Dichloroethene  
Concen: 0.333 ug/l  
RT: 5.771 min Scan# 649  
Delta R.T. -0.006 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

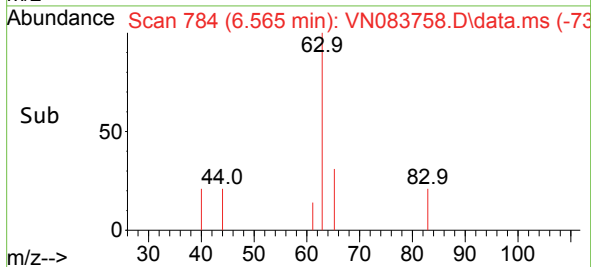
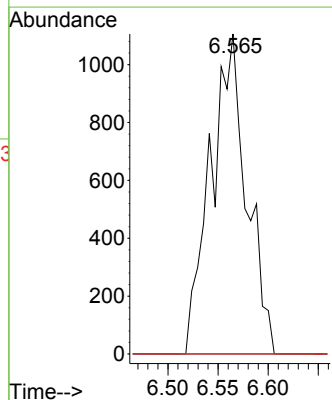
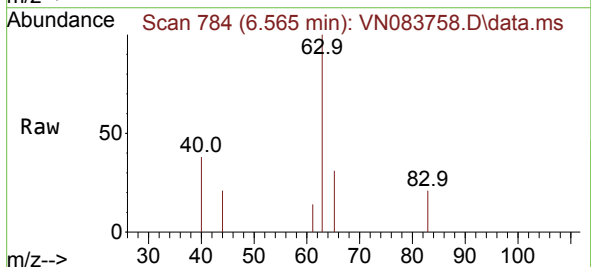
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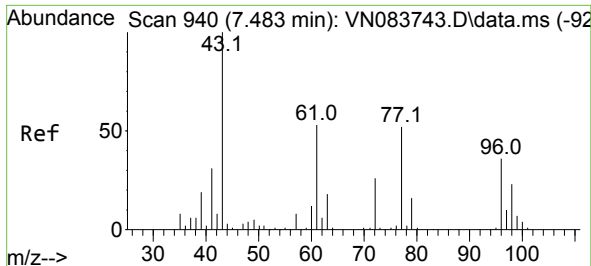
Tgt Ion: 96 Resp: 454  
Ion Ratio Lower Upper  
96 100  
61 97.0 106.0 159.0#  
98 0.0 52.2 78.2#



#24  
1,1-Dichloroethane  
Concen: 1.029 ug/l  
RT: 6.565 min Scan# 784  
Delta R.T. 0.006 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

Tgt Ion: 63 Resp: 2764  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.5 10.4#  
100 0.0 2.5 7.5#

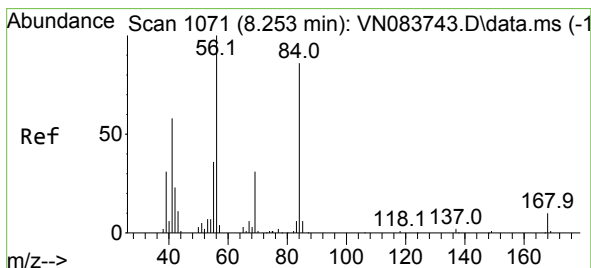
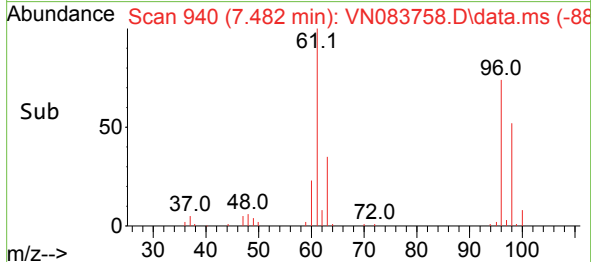
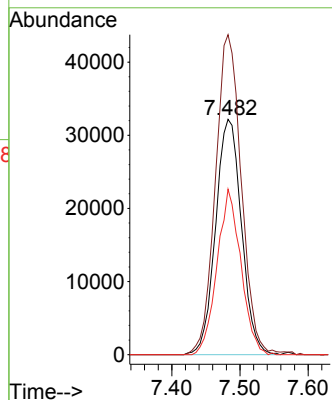
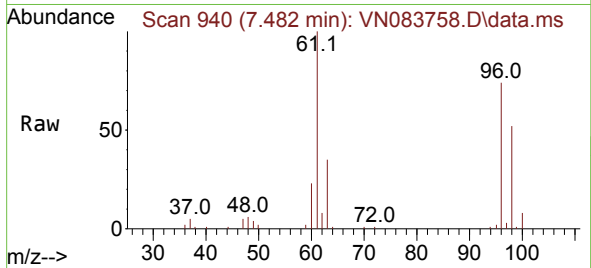




#27  
 cis-1,2-Dichloroethene  
 Concen: 52.541 ug/l  
 RT: 7.482 min Scan# 94  
 Delta R.T. -0.000 min  
 Lab File: VN083758.D  
 Acq: 10 Sep 2024 17:44

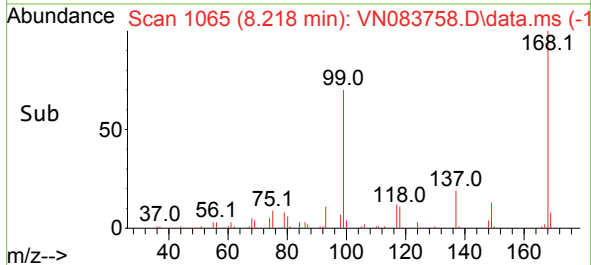
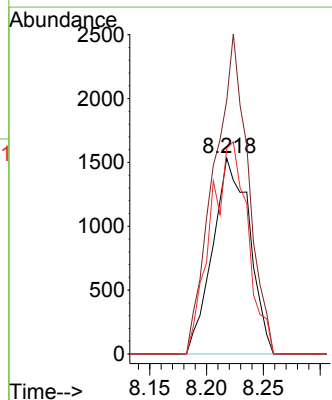
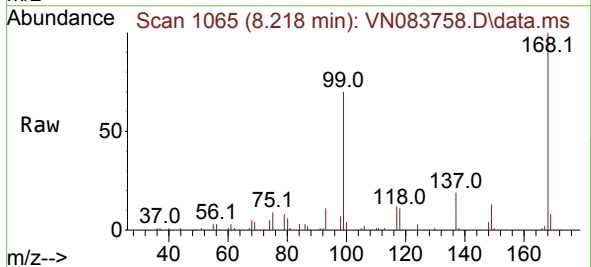
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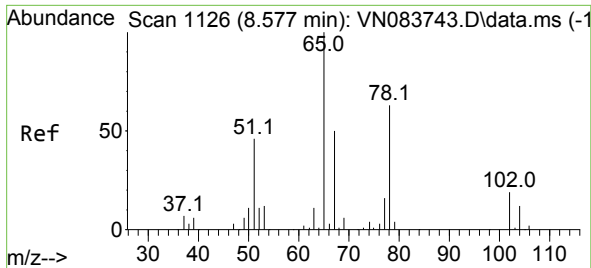
Tgt Ion: 96 Resp: 84963  
 Ion Ratio Lower Upper  
 96 100  
 61 136.6 0.0 306.2  
 98 64.8 0.0 128.6



#31  
 Cyclohexane  
 Concen: 1.349 ug/l  
 RT: 8.218 min Scan# 1065  
 Delta R.T. -0.035 min  
 Lab File: VN083758.D  
 Acq: 10 Sep 2024 17:44

Tgt Ion: 56 Resp: 3455  
 Ion Ratio Lower Upper  
 56 100  
 69 129.5 26.9 40.3#  
 84 105.0 69.2 103.8#





#33

1,2-Dichloroethane-d4

Concen: 52.424 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083758.D

Acq: 10 Sep 2024 17:44

Instrument :

MSVOA\_N

ClientSampleId :

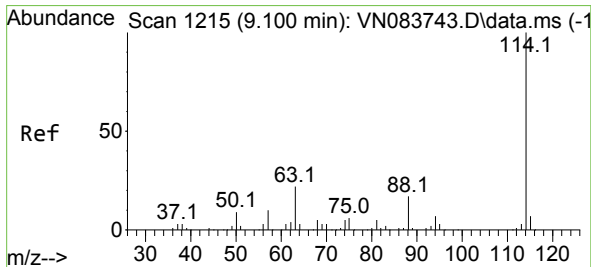
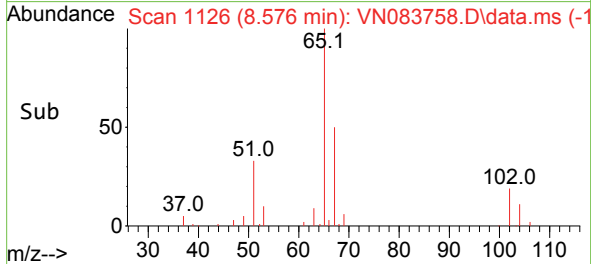
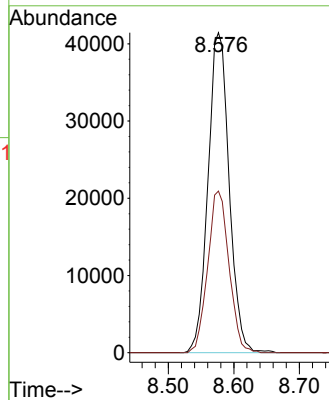
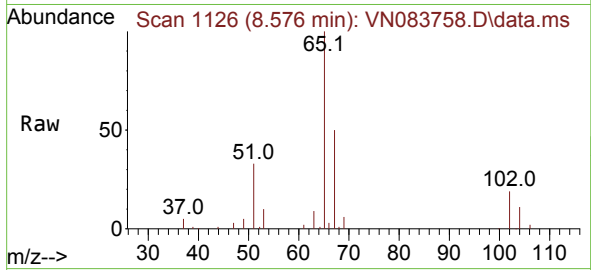
MW-11B-37.5-090424DL

Tgt Ion: 65 Resp: 92896

Ion Ratio Lower Upper

65 100

67 50.8 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: VN083758.D

Acq: 10 Sep 2024 17:44

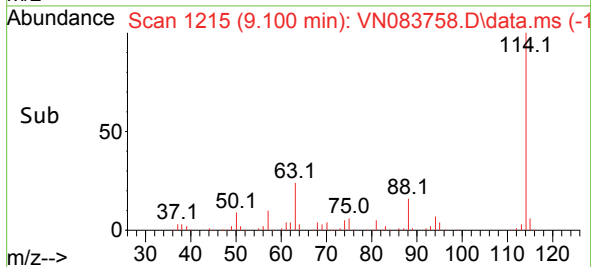
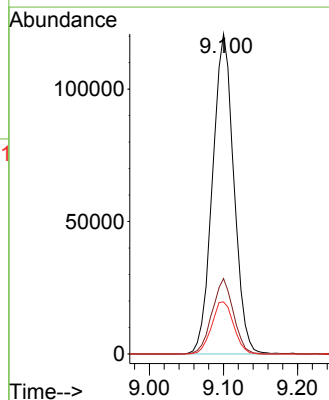
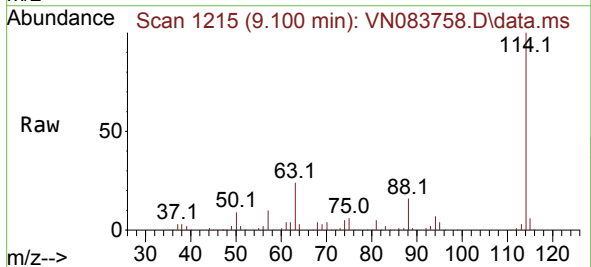
Tgt Ion: 114 Resp: 241588

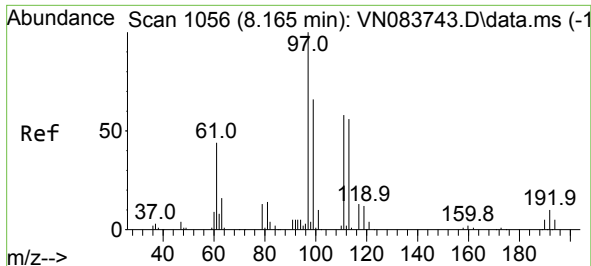
Ion Ratio Lower Upper

114 100

63 23.6 0.0 43.4

88 16.2 0.0 32.6

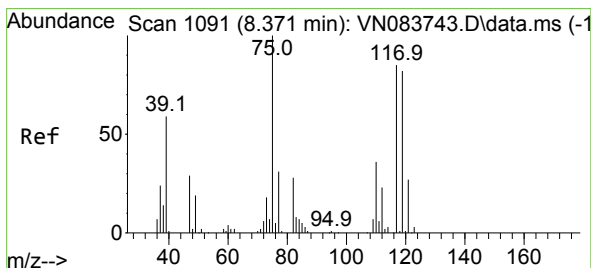
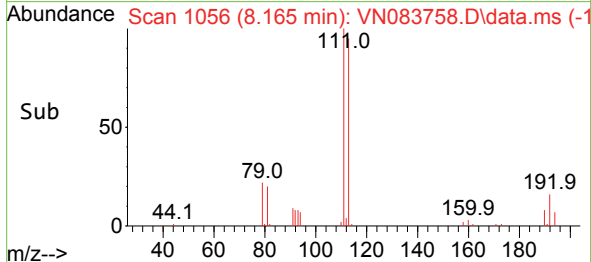
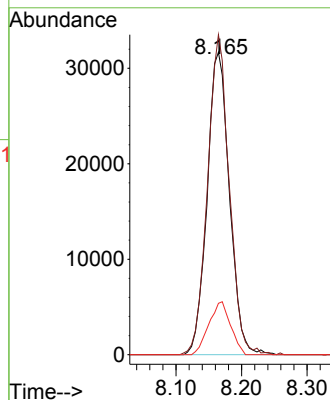
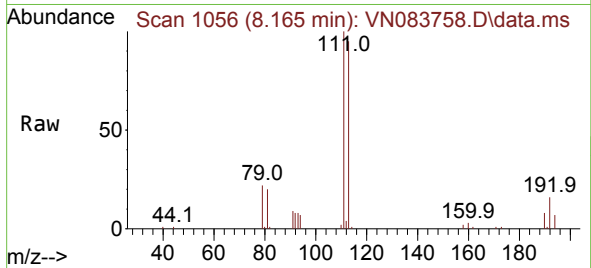




#35  
Dibromofluoromethane  
Concen: 48.463 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

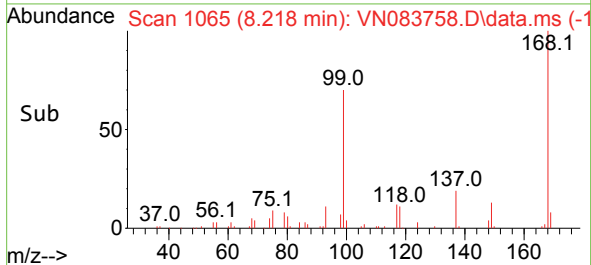
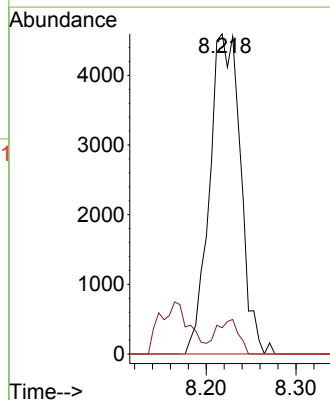
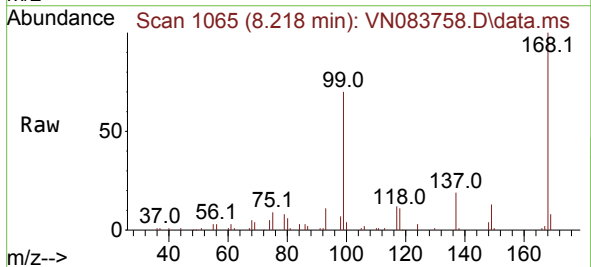
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11B-37.5-090424DL

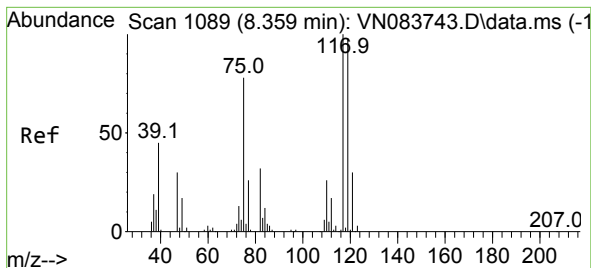
Tgt Ion:113 Resp: 74953  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.6 124.0  
192 17.0 14.3 21.5



#36  
1,1-Dichloropropene  
Concen: 4.730 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.153 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

Tgt Ion: 75 Resp: 11011  
Ion Ratio Lower Upper  
75 100  
110 7.8 16.7 50.1#  
77 0.0 25.2 37.8#





#38

Carbon Tetrachloride

Concen: 5.006 ug/l

RT: 8.224 min Scan# 1106

Delta R.T. -0.135 min

Lab File: VN083758.D

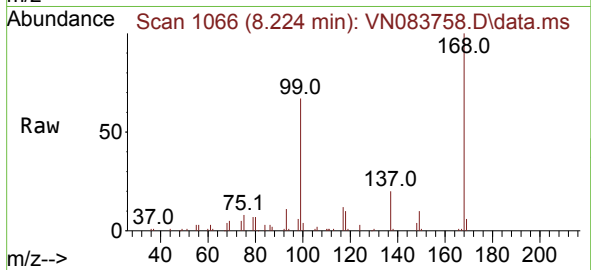
Acq: 10 Sep 2024 17:44

Instrument :

MSVOA\_N

ClientSampleId :

MW-11B-37.5-090424DL



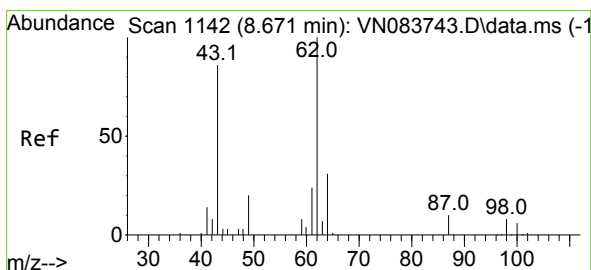
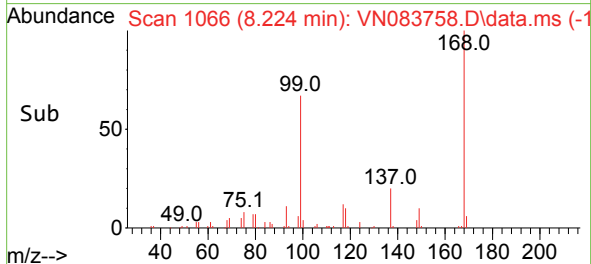
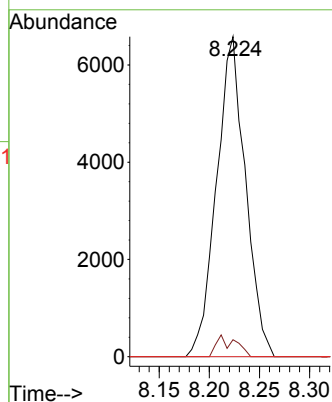
Tgt Ion:117 Resp: 13220

Ion Ratio Lower Upper

117 100

119 5.3 76.1 114.1#

121 0.0 24.1 36.1#



#42

1,2-Dichloroethane

Concen: 0.239 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN083758.D

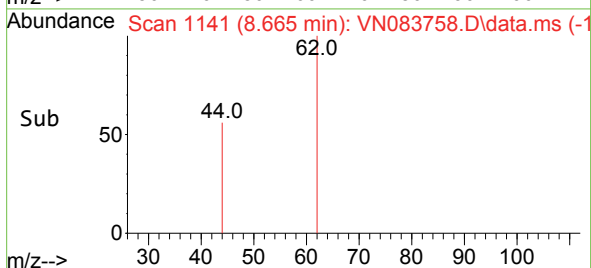
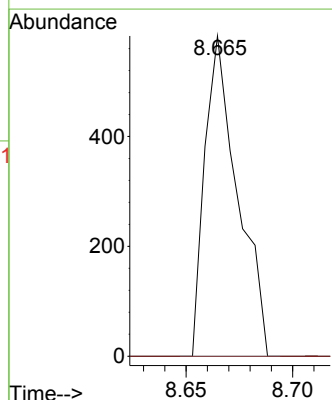
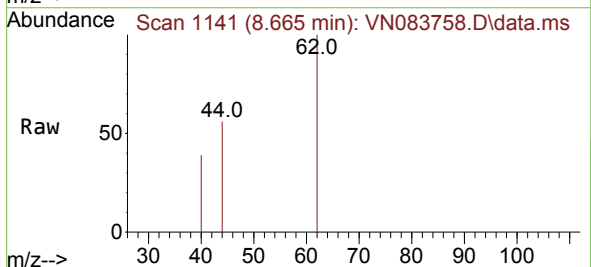
Acq: 10 Sep 2024 17:44

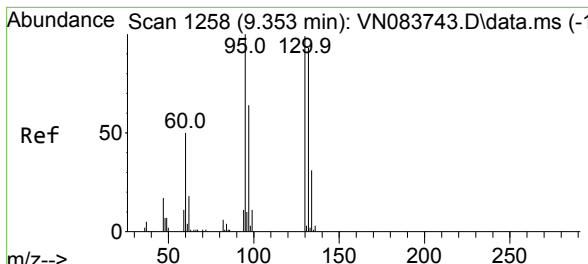
Tgt Ion: 62 Resp: 626

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6

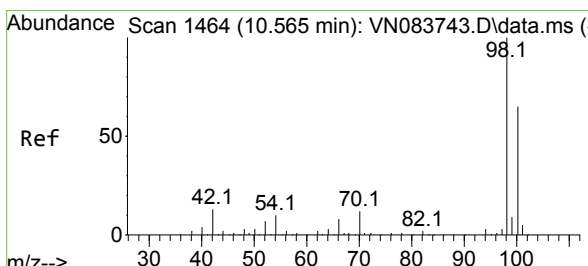
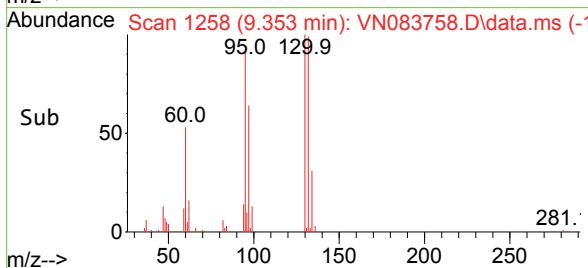
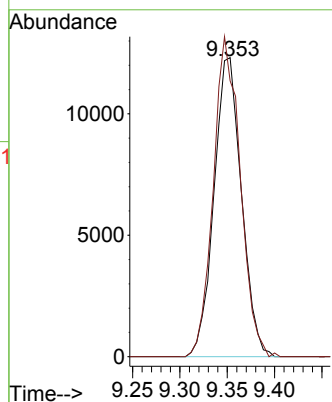
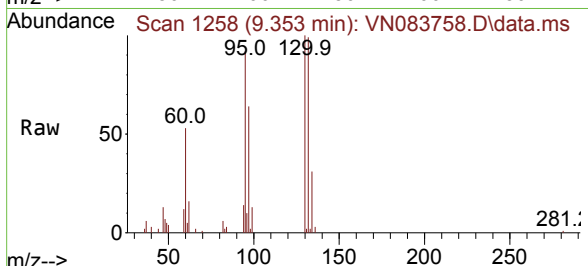




#44  
 Trichloroethene  
 Concen: 15.325 ug/l  
 RT: 9.353 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VN083758.D  
 Acq: 10 Sep 2024 17:44

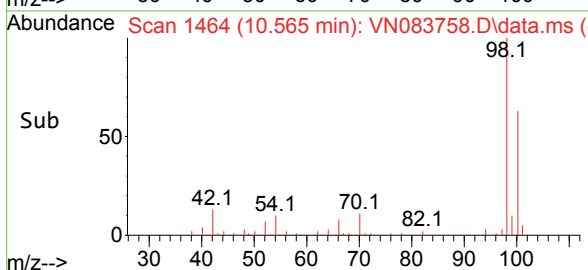
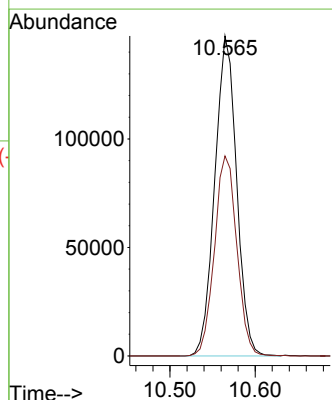
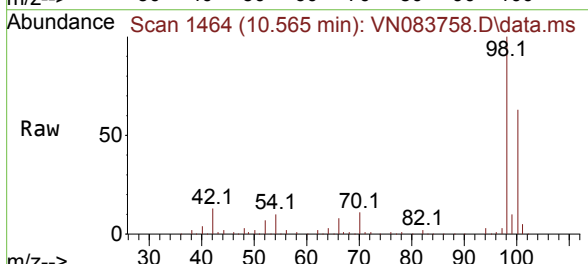
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-11B-37.5-090424DL

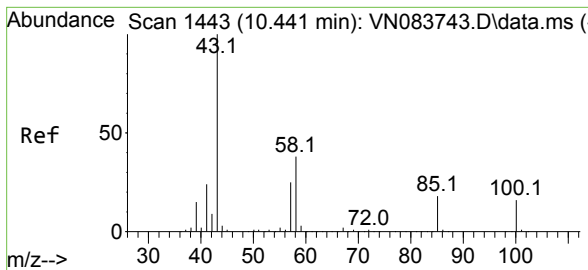
Tgt Ion:130 Resp: 24866  
 Ion Ratio Lower Upper  
 130 100  
 95 92.2 0.0 200.4



#50  
 Toluene-d8  
 Concen: 49.100 ug/l  
 RT: 10.565 min Scan# 1464  
 Delta R.T. -0.000 min  
 Lab File: VN083758.D  
 Acq: 10 Sep 2024 17:44

Tgt Ion: 98 Resp: 262523  
 Ion Ratio Lower Upper  
 98 100  
 100 64.0 52.0 78.0

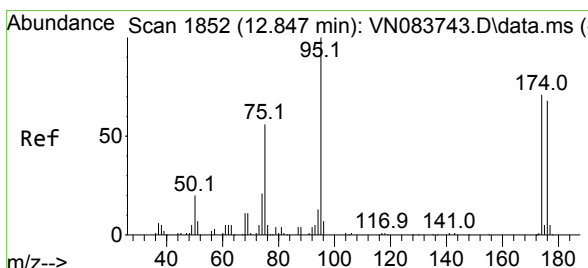
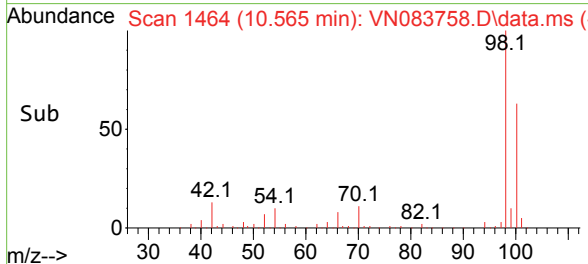
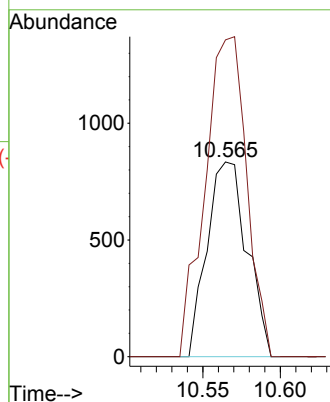
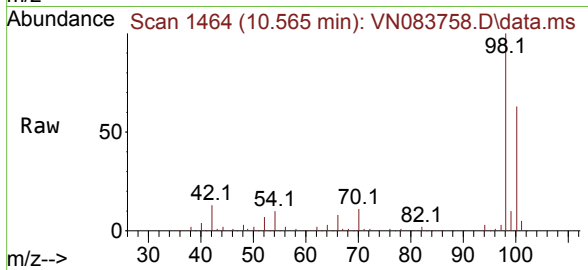




#51  
4-Methyl-2-Pentanone  
Concen: 0.719 ug/l  
RT: 10.565 min Scan# 1443  
Delta R.T. 0.123 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

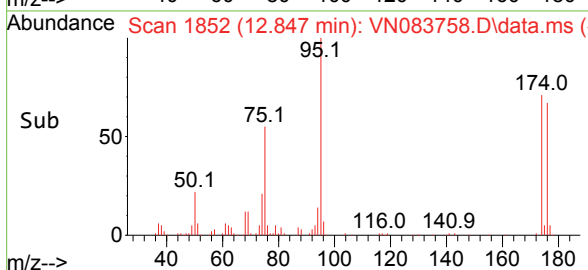
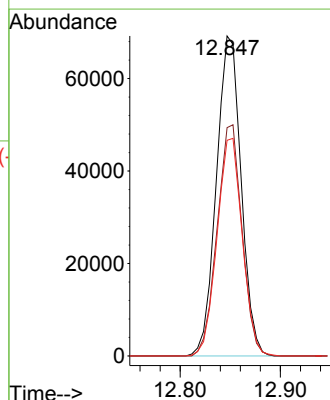
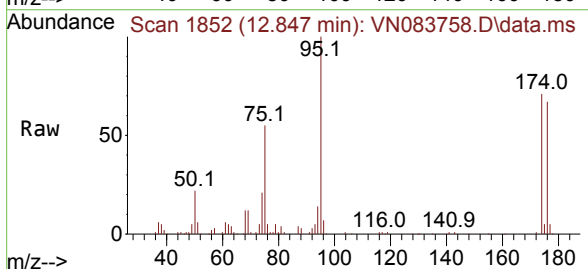
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11B-37.5-090424DL

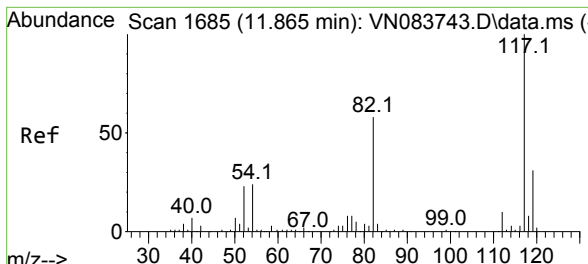
Tgt Ion: 43 Resp: 1499  
Ion Ratio Lower Upper  
43 100  
58 170.8 31.6 47.4#



#62  
4-Bromofluorobenzene  
Concen: 53.728 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

Tgt Ion: 95 Resp: 118521  
Ion Ratio Lower Upper  
95 100  
174 72.5 0.0 139.8  
176 69.5 0.0 131.4

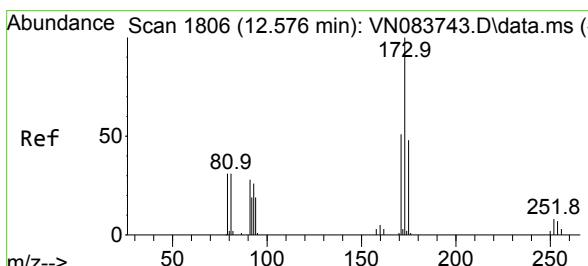
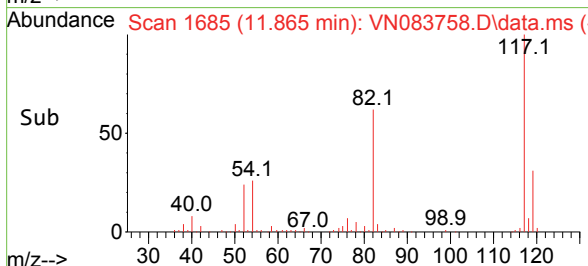
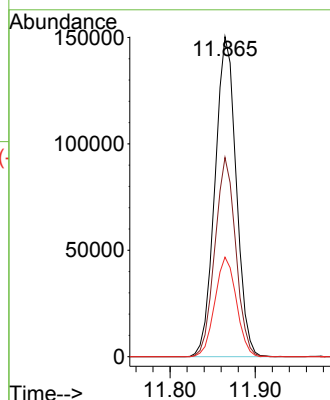
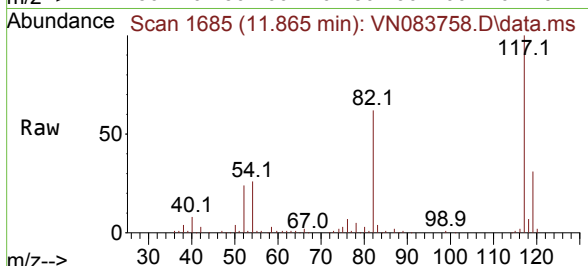




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

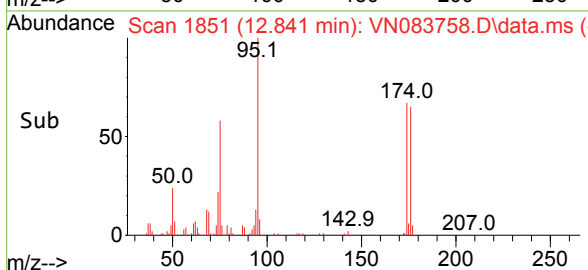
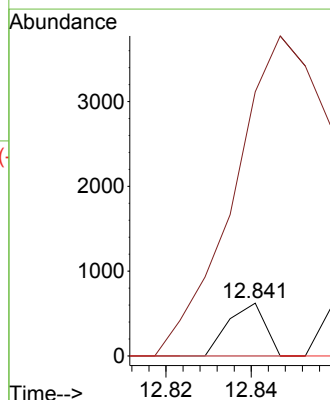
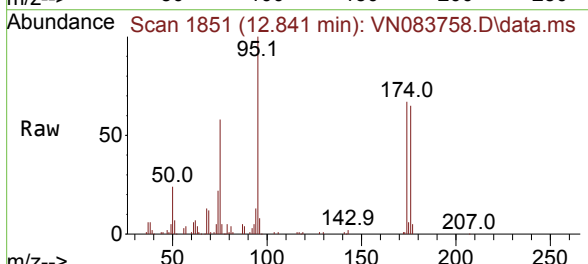
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11B-37.5-090424DL

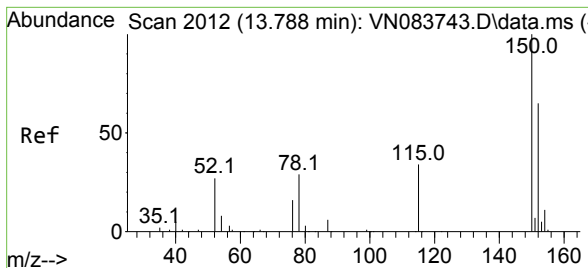
Tgt Ion:117 Resp: 260038  
Ion Ratio Lower Upper  
117 100  
82 62.3 47.4 71.0  
119 31.1 26.3 39.5



#71  
Bromoform  
Concen: 0.278 ug/l  
RT: 12.841 min Scan# 1851  
Delta R.T. 0.265 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

Tgt Ion:173 Resp: 375  
Ion Ratio Lower Upper  
173 100  
175 1253.3 24.1 72.2#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2012

Delta R.T. 0.006 min

Lab File: VN083758.D

Acq: 10 Sep 2024 17:44

Instrument :

MSVOA\_N

ClientSampleId :

MW-11B-37.5-090424DL

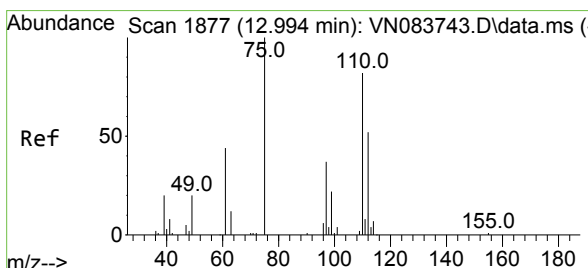
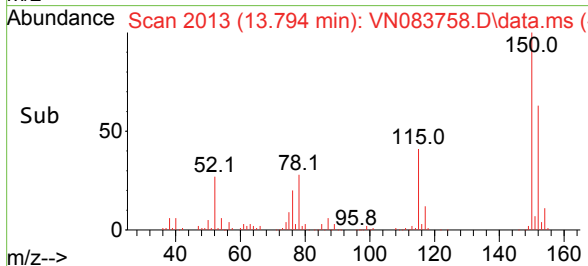
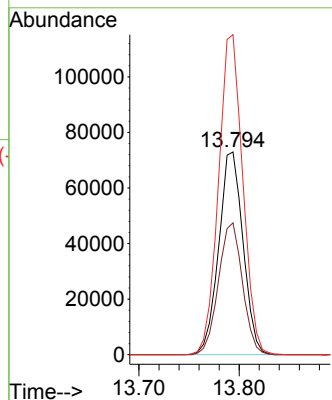
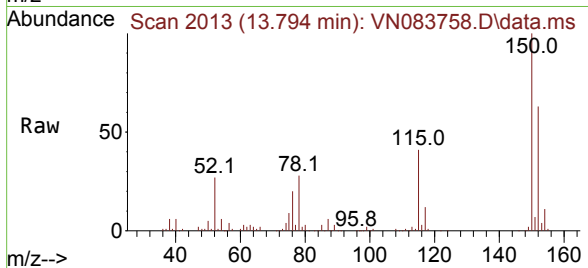
Tgt Ion:152 Resp: 122831

Ion Ratio Lower Upper

152 100

115 64.2 32.2 96.6

150 157.4 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 27.818 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083758.D

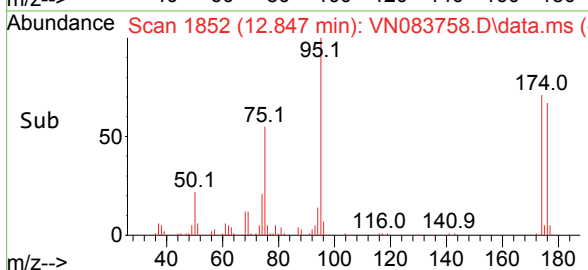
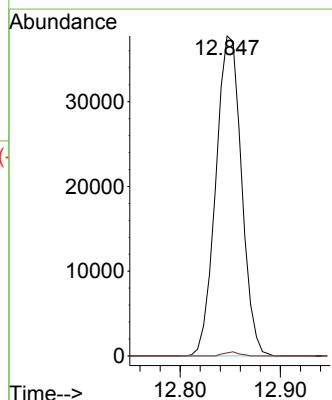
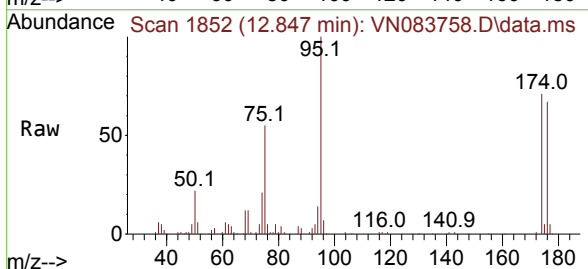
Acq: 10 Sep 2024 17:44

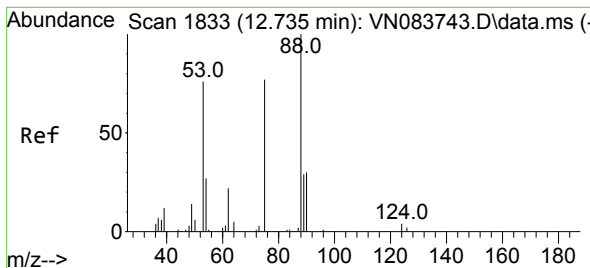
Tgt Ion: 75 Resp: 67246

Ion Ratio Lower Upper

75 100

77 0.8 95.2 285.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 71.060 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN083758.D

Acq: 10 Sep 2024 17:44

Instrument :

MSVOA\_N

ClientSampleId :

MW-11B-37.5-090424DL

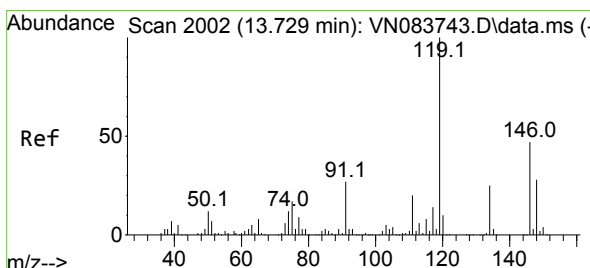
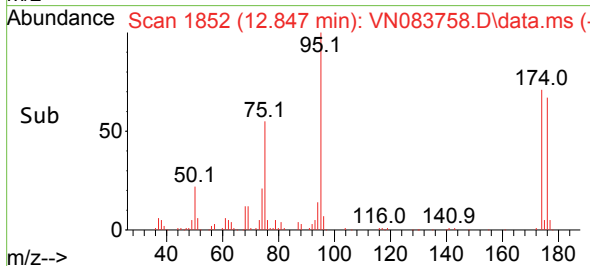
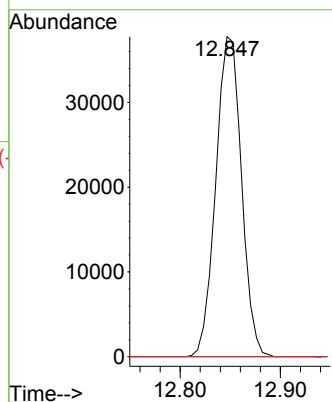
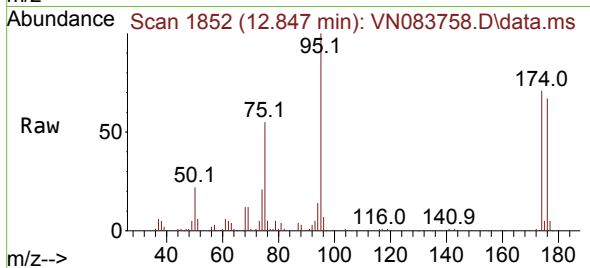
Tgt Ion: 75 Resp: 67246

Ion Ratio Lower Upper

75 100

53 0.0 81.2 121.8#

89 0.0 35.7 53.5#



#87

1,3-Dichlorobenzene

Concen: 0.330 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN083758.D

Acq: 10 Sep 2024 17:44

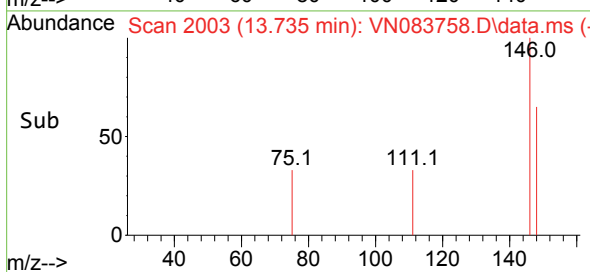
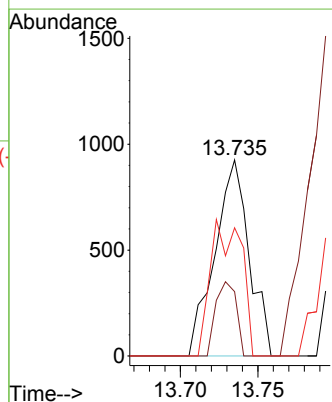
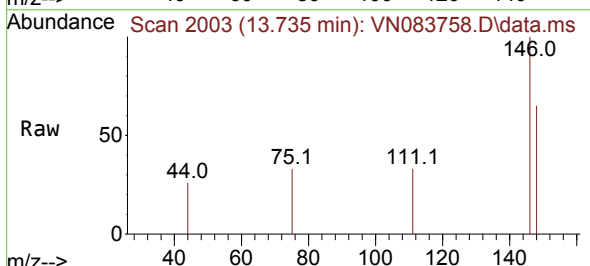
Tgt Ion:146 Resp: 1426

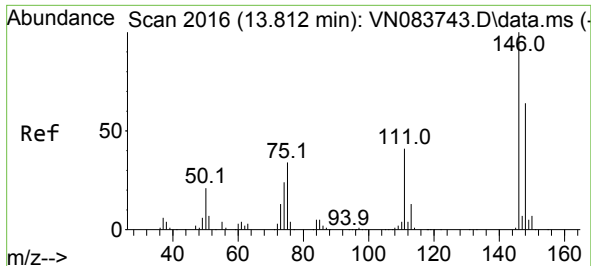
Ion Ratio Lower Upper

146 100

111 22.7 21.7 65.1

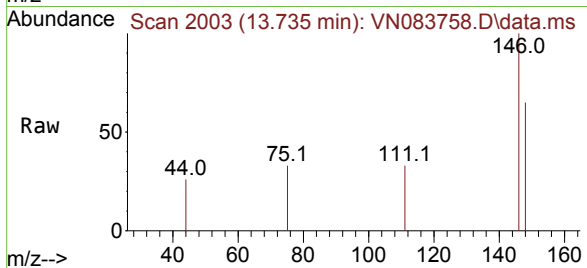
148 62.6 31.7 95.1



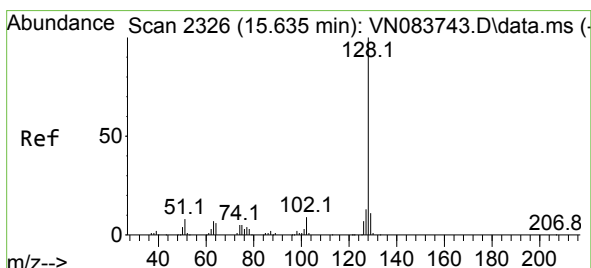
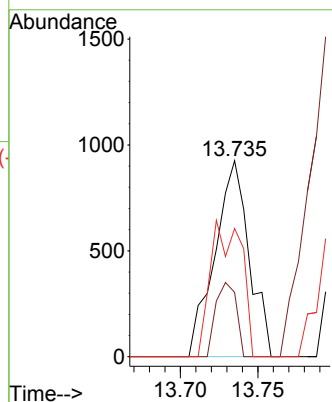
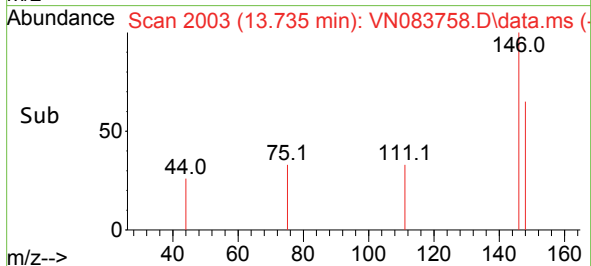


#88  
1,4-Dichlorobenzene  
Concen: 0.326 ug/l  
RT: 13.735 min Scan# 2016  
Delta R.T. -0.077 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44

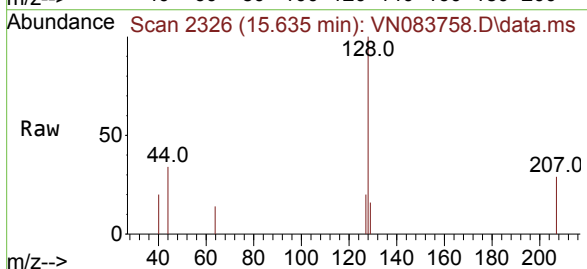
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11B-37.5-090424DL



Tgt Ion:146 Resp: 1426  
Ion Ratio Lower Upper  
146 100  
111 22.7 21.3 64.0  
148 62.6 32.0 96.2



#95  
Naphthalene  
Concen: 0.298 ug/l  
RT: 15.635 min Scan# 2326  
Delta R.T. -0.000 min  
Lab File: VN083758.D  
Acq: 10 Sep 2024 17:44



Tgt Ion:128 Resp: 2026  
Ion Ratio Lower Upper  
128 100  
127 3.8 10.2 15.2#  
129 3.2 8.7 13.1#

