

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011524\  
 Data File : VN080720.D  
 Acq On : 15 Jan 2024 17:06  
 Operator : JC\MD  
 Sample : P1144-06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jan 16 00:42:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 06:34:36 2024  
 Response via : Initial Calibration

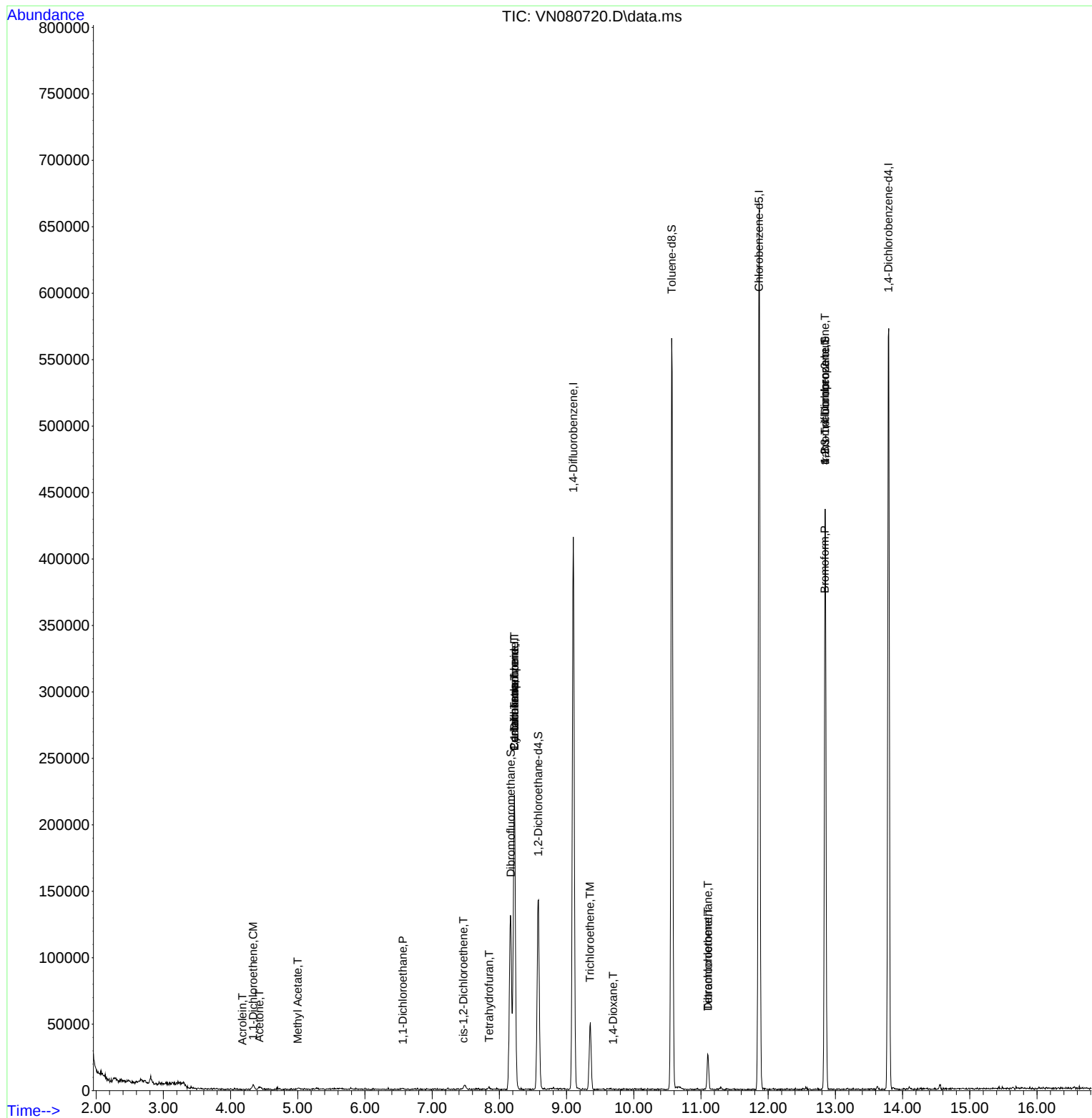
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 148156     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 333039     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 342148     | 50.000    | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 140733     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 110822     | 42.595    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 85.180%   |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 93250      | 49.280    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 98.560%   |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 378086     | 52.401    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 104.800%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 148055     | 53.510    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 107.020%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
| 3) Chloromethane              | 2.371          | 50   | 1733       | Below Cal |        | 94       |
| 6) Chloroethane               | 3.130          | 64   | 82         | Below Cal | #      | 43       |
| 12) 1,1-Dichloroethene        | 4.336          | 96   | 1084       | 0.490     | ug/l # | 61       |
| 13) Acrolein                  | 4.177          | 56   | 134        | 0.364     | ug/l # | 16       |
| 16) Acetone                   | 4.430          | 43   | 3749       | 4.389     | ug/l   | 95       |
| 18) Methyl Acetate            | 5.000          | 43   | 794        | 0.312     | ug/l # | 54       |
| 24) 1,1-Dichloroethane        | 6.565          | 63   | 968        | 0.214     | ug/l # | 81       |
| 27) cis-1,2-Dichloroethene    | 7.465          | 96   | 2030       | 0.821     | ug/l # | 8        |
| 29) Tetrahydrofuran           | 7.847          | 42   | 1023       | 0.983     | ug/l # | 33       |
| 31) Cyclohexane               | 8.224          | 56   | 4636       | 1.153     | ug/l # | 44       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 15673      | 4.043     | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 16902      | 4.856     | ug/l # | 16       |
| 44) Trichloroethene           | 9.347          | 130  | 16632      | 6.742     | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.694          | 88   | 220        | 5.398     | ug/l # | 16       |
| 60) Dibromochloromethane      | 11.106         | 129  | 5147       | 2.084     | ug/l # | 11       |
| 64) Tetrachloroethene         | 11.106         | 164  | 5541       | 2.358     | ug/l # | 80       |
| 71) Bromoform                 | 12.841         | 173  | 605        | 0.331     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 83534      | 19.249    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 83534      | 45.378    | ug/l # | 15       |
| -----                         |                |      |            |           |        |          |

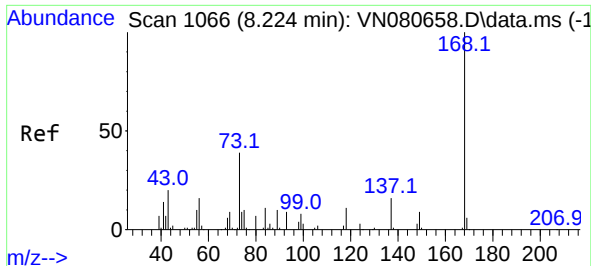
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011524\  
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ALS Vial : 12 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :

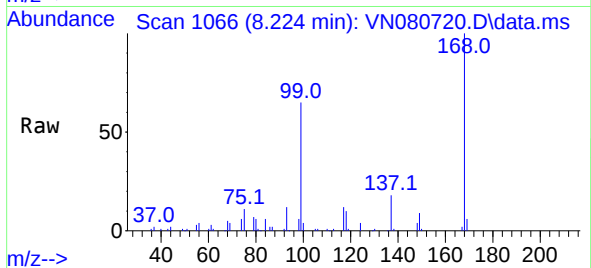
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 11 06:34:36 2024  
Response via : Initial Calibration



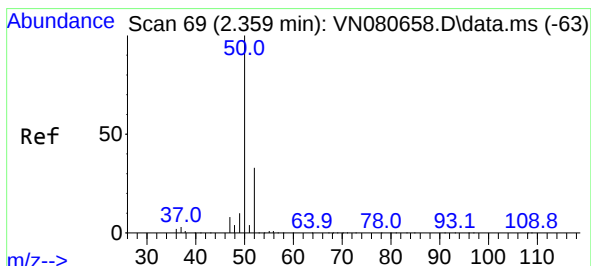
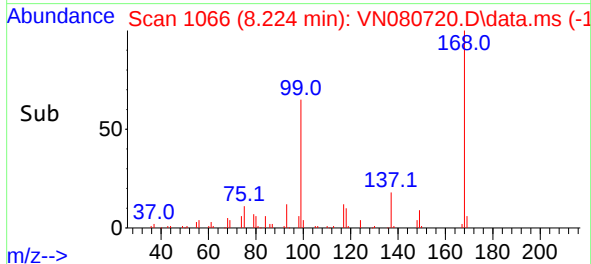
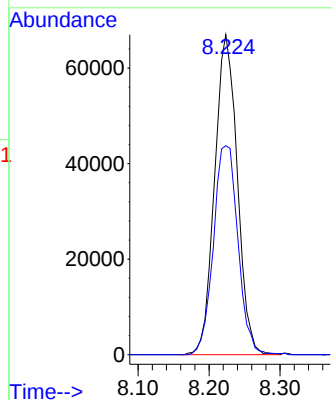


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Instrument :  
MSVOA\_N  
ClientSampleId :

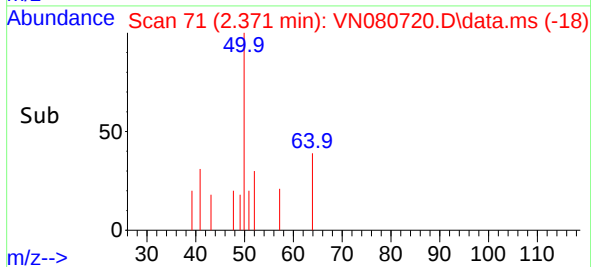
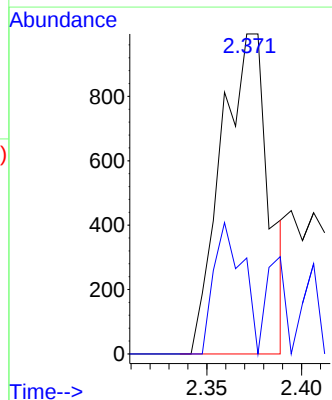
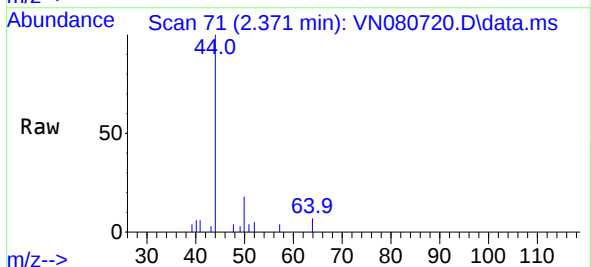


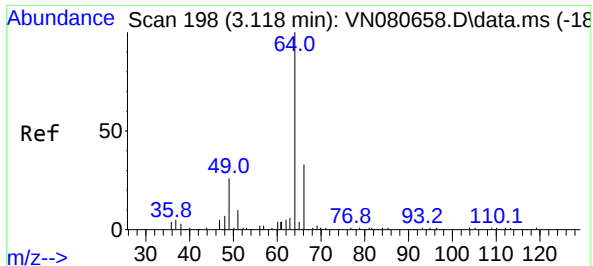
Tgt Ion:168 Resp: 148156  
Ion Ratio Lower Upper  
168 100  
99 65.3 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.371 min Scan# 71  
Delta R.T. 0.012 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Tgt Ion: 50 Resp: 1733  
Ion Ratio Lower Upper  
50 100  
52 30.0 26.5 39.7

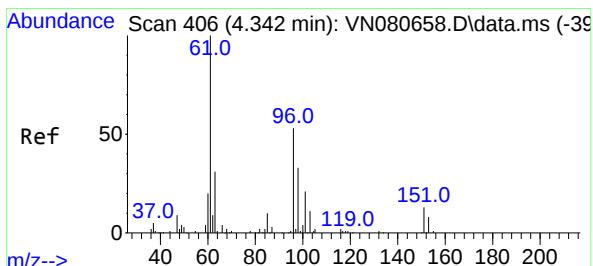
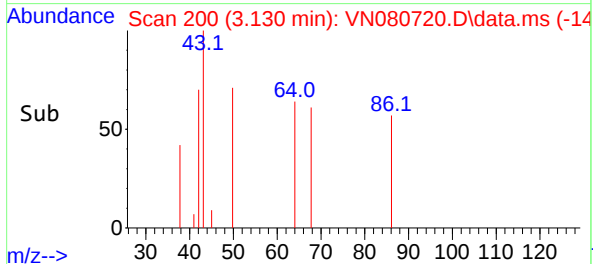
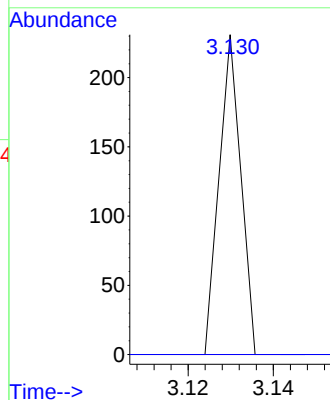
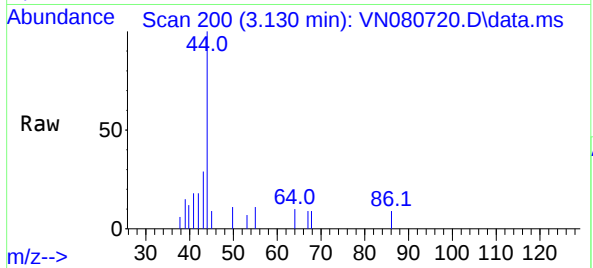




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.130 min Scan# 20  
Delta R.T. 0.012 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

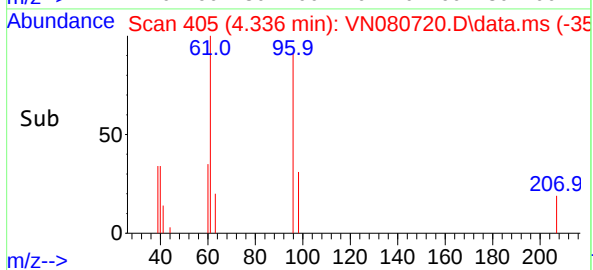
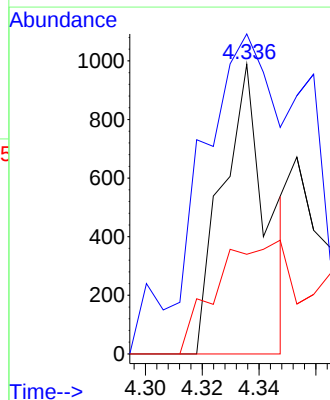
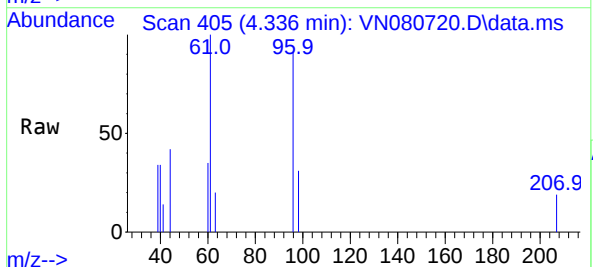
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MSVOA\_N  
ClientSampleId :

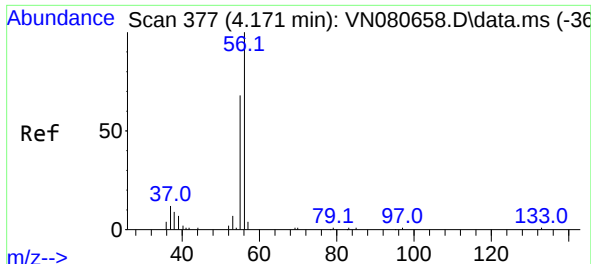
Tgt Ion: 64 Resp: 82  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#



#12  
1,1-Dichloroethene  
Concen: 0.490 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. -0.006 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Tgt Ion: 96 Resp: 1084  
Ion Ratio Lower Upper  
96 100  
61 92.6 112.7 169.1#  
98 34.4 51.2 76.8#

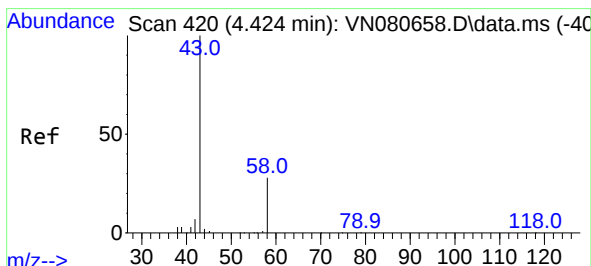
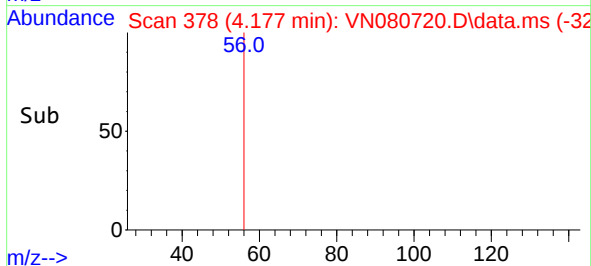
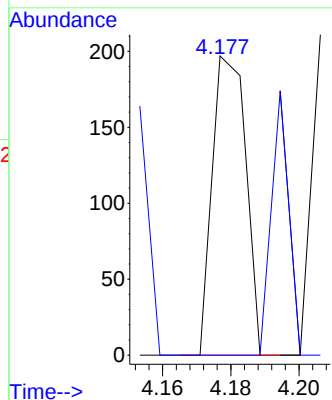
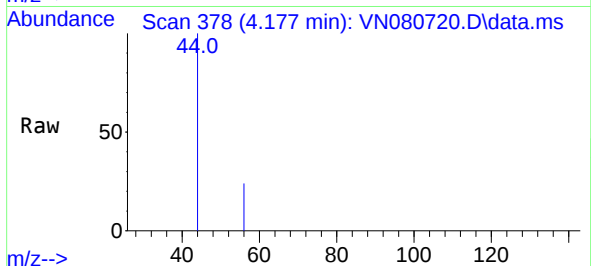




#13  
Acrolein  
Concen: 0.364 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

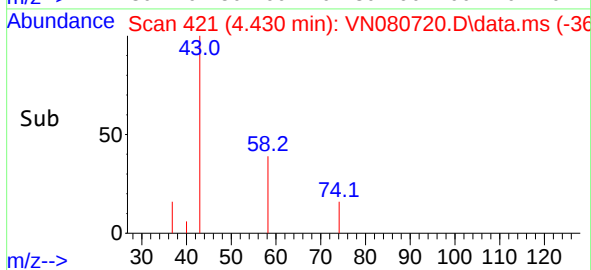
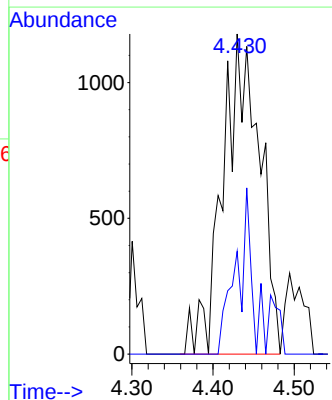
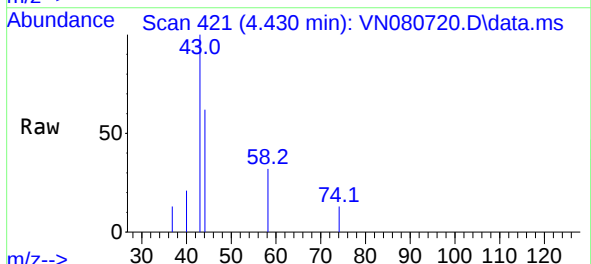
Instrument :  
MSVOA\_N  
ClientSampleId :

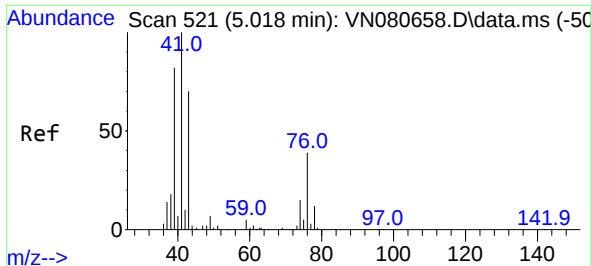
Tgt Ion: 56 Resp: 134  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.5 81.7#



#16  
Acetone  
Concen: 4.389 ug/l  
RT: 4.430 min Scan# 421  
Delta R.T. 0.006 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

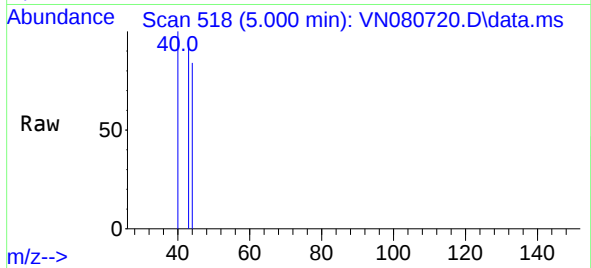
Tgt Ion: 43 Resp: 3749  
Ion Ratio Lower Upper  
43 100  
58 32.1 28.0 42.0



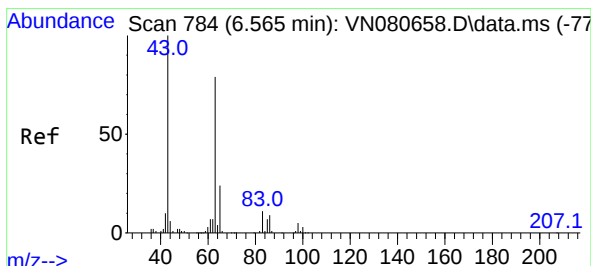
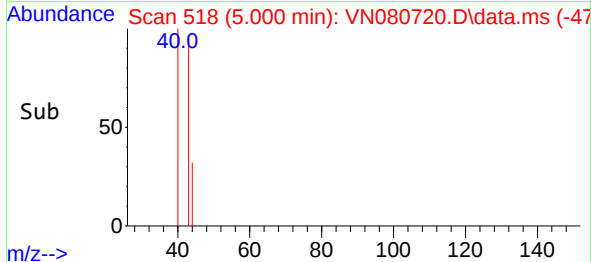
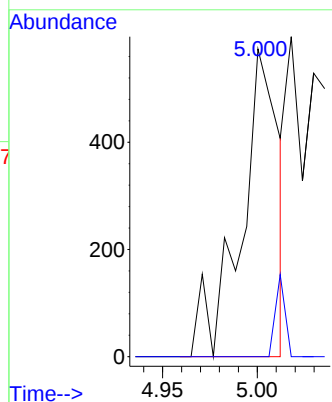


#18  
Methyl Acetate  
Concen: 0.312 ug/l  
RT: 5.000 min Scan# 518  
Delta R.T. -0.018 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Instrument :  
MSVOA\_N  
ClientSampleId :

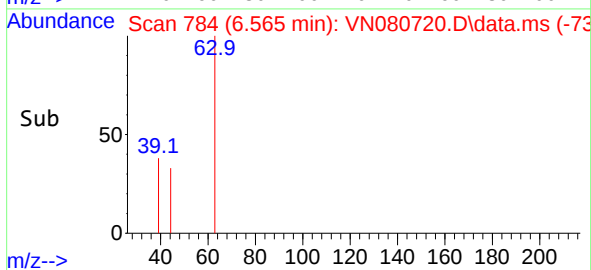
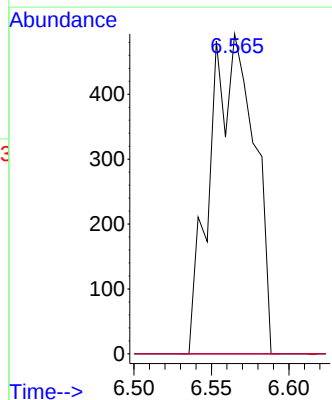
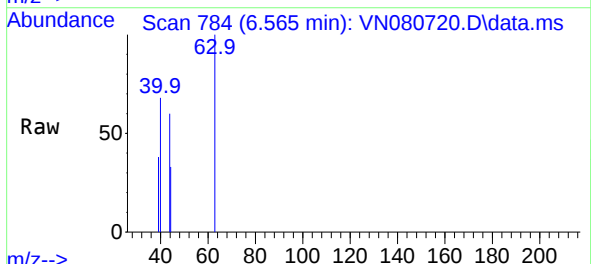


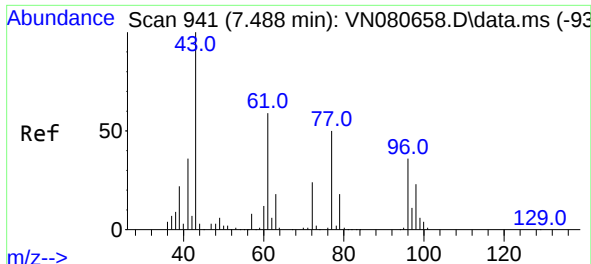
Tgt Ion: 43 Resp: 794  
Ion Ratio Lower Upper  
43 100  
74 6.8 26.2 39.4#



#24  
1,1-Dichloroethane  
Concen: 0.214 ug/l  
RT: 6.565 min Scan# 784  
Delta R.T. 0.000 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

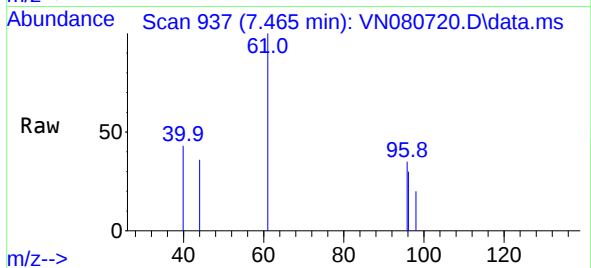
Tgt Ion: 63 Resp: 968  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.9 11.7#  
100 0.0 2.5 7.4#



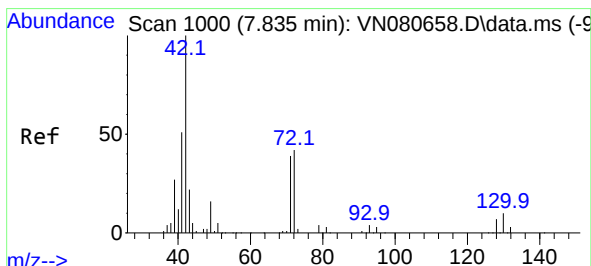
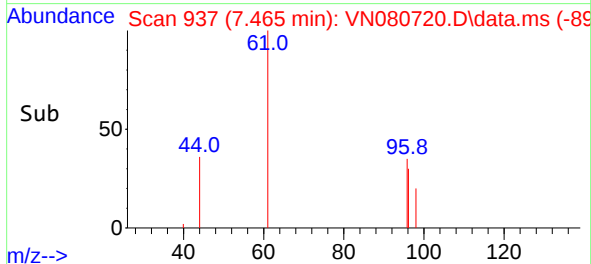
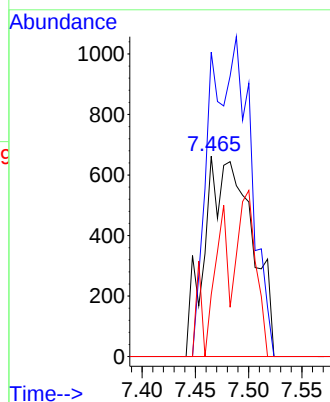


#27  
cis-1,2-Dichloroethene  
Concen: 0.821 ug/l  
RT: 7.465 min Scan# 91  
Delta R.T. -0.024 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Instrument :  
MSVOA\_N  
ClientSampleId :

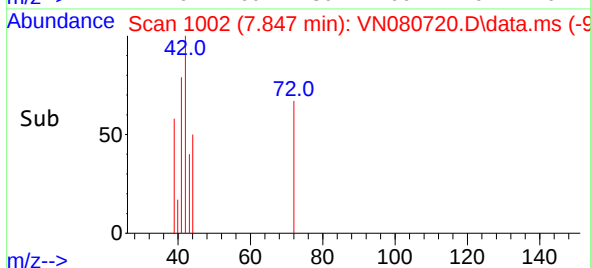
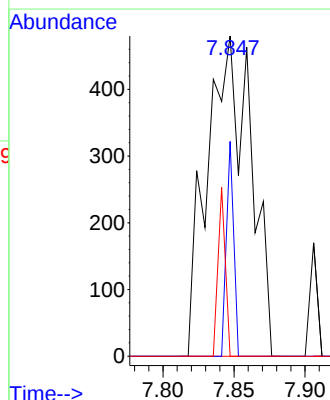
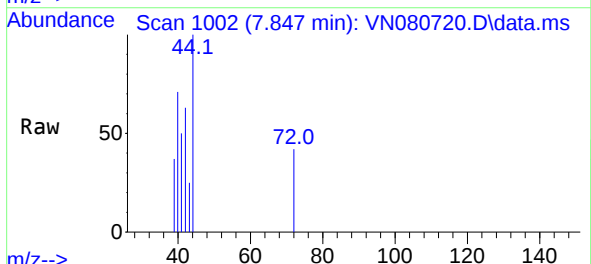


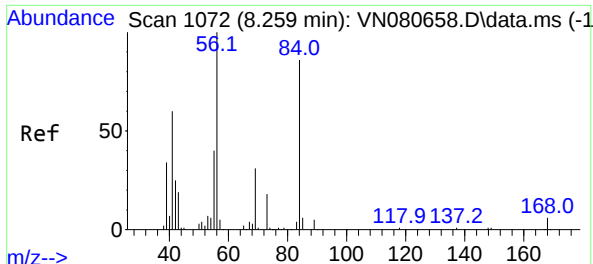
Tgt Ion: 96 Resp: 2030  
Ion Ratio Lower Upper  
96 100  
61 0.0 0.0 255.2  
98 21.1 0.0 128.8



#29  
Tetrahydrofuran  
Concen: 0.983 ug/l  
RT: 7.847 min Scan# 1002  
Delta R.T. 0.012 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Tgt Ion: 42 Resp: 1023  
Ion Ratio Lower Upper  
42 100  
72 11.1 49.8 74.6#  
71 8.7 47.4 71.2#





#31

Cyclohexane

Concen: 1.153 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.035 min

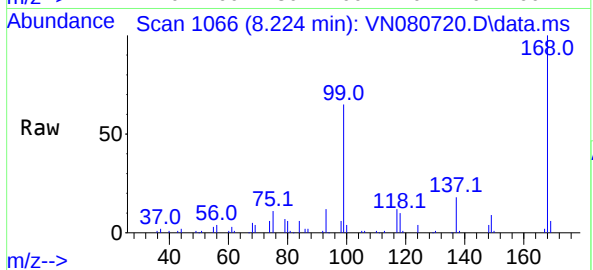
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Instrument :

MSVOA\_N

ClientSampleId :



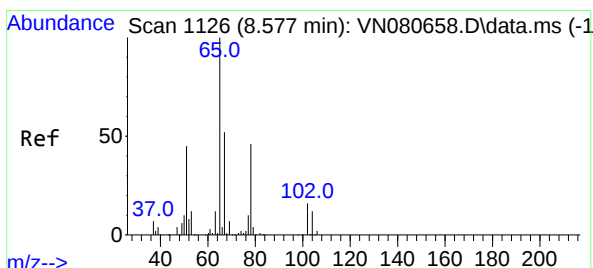
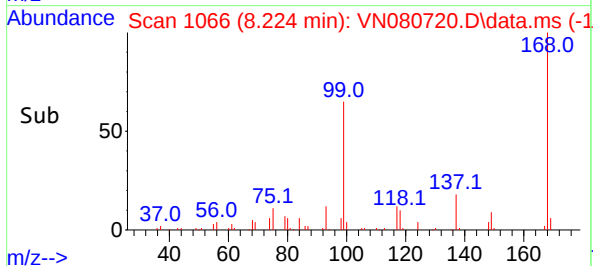
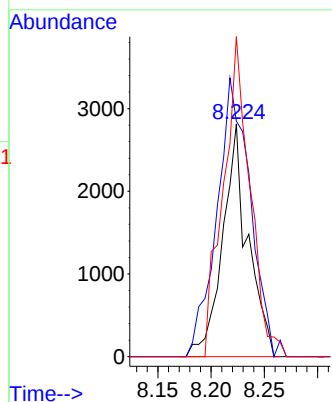
Tgt Ion: 56 Resp: 4636

Ion Ratio Lower Upper

56 100

69 101.2 26.8 40.2#

84 137.5 81.8 122.6#



#33

1,2-Dichloroethane-d4

Concen: 42.595 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN080720.D

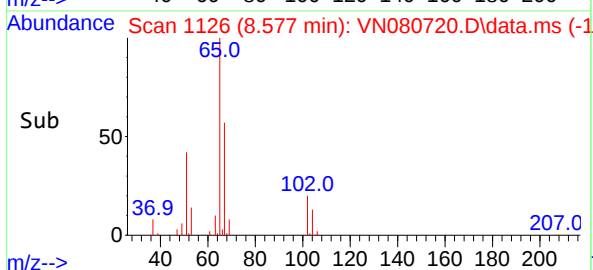
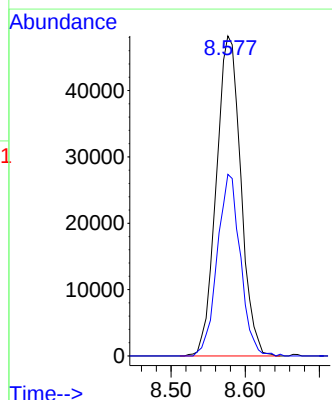
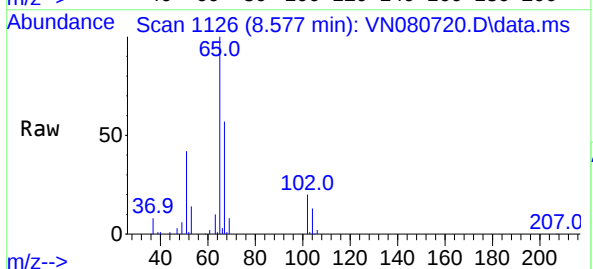
Acq: 15 Jan 2024 17:06

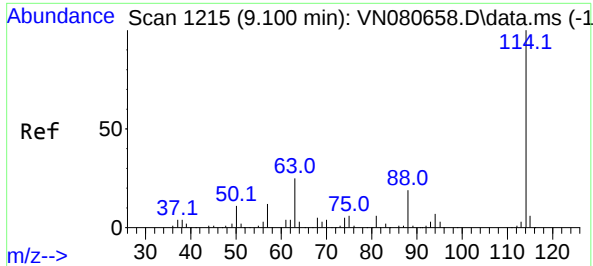
Tgt Ion: 65 Resp: 110822

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.6

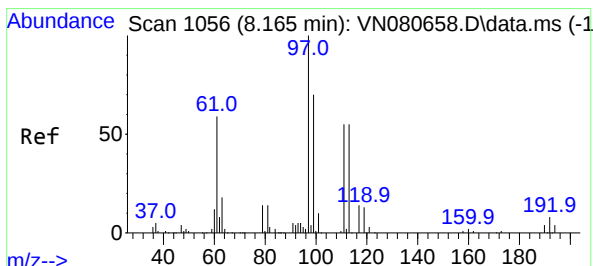
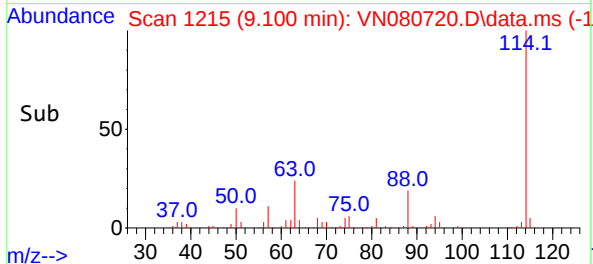
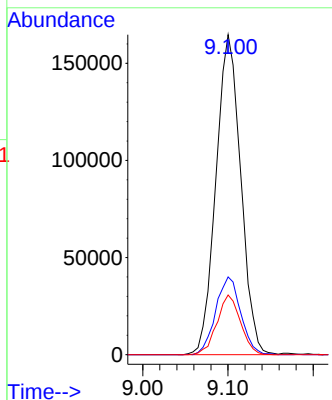
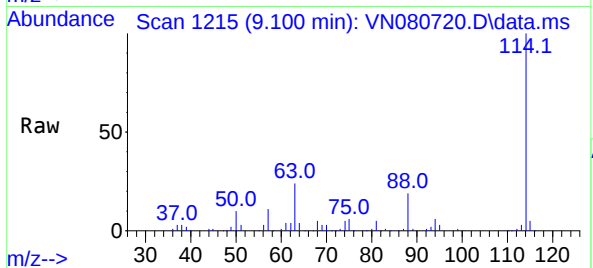




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

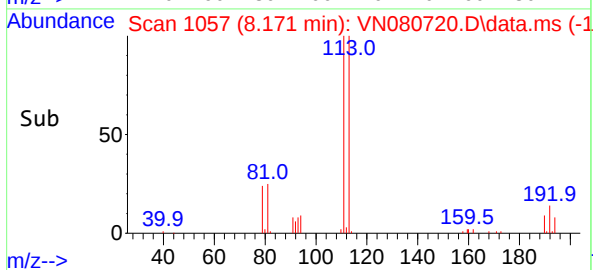
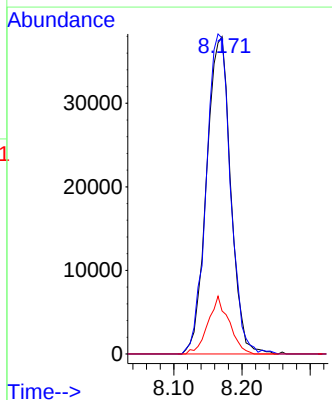
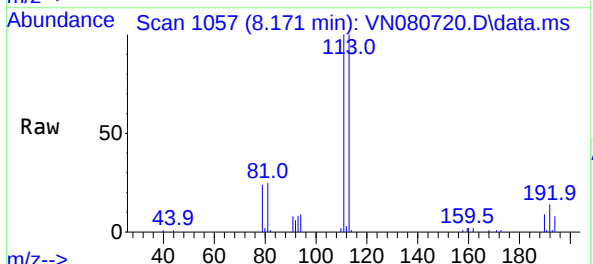
Instrument :  
MSVOA\_N  
ClientSampleId :

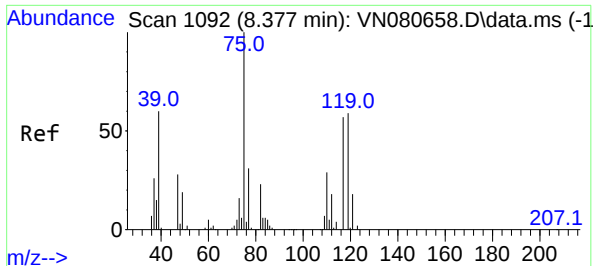
Tgt Ion:114 Resp: 333039  
Ion Ratio Lower Upper  
114 100  
63 24.3 0.0 36.4  
88 18.6 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 49.280 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Tgt Ion:113 Resp: 93250  
Ion Ratio Lower Upper  
113 100  
111 101.4 82.6 123.8  
192 15.9 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.043 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

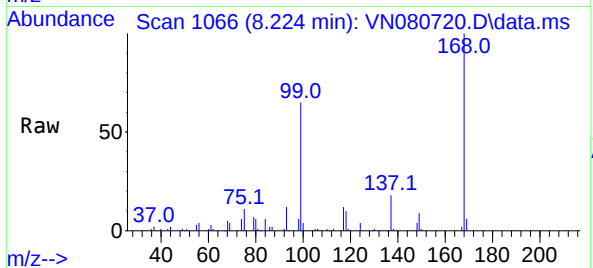
Lab File: VN080720.D

Acq: 15 Jan 2024 17:06

Instrument :

MSVOA\_N

ClientSampleId :



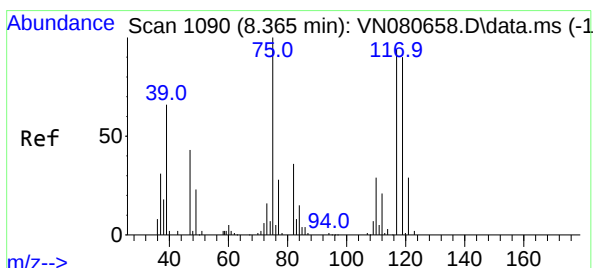
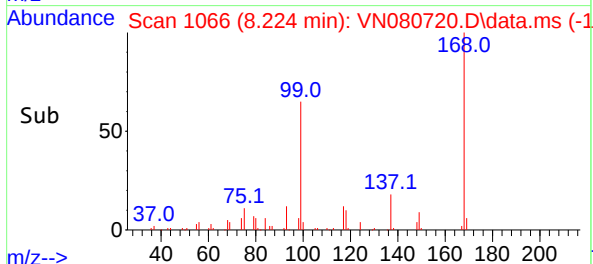
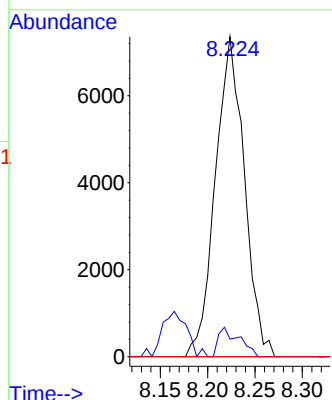
Tgt Ion: 75 Resp: 15673

Ion Ratio Lower Upper

75 100

110 6.6 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.856 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN080720.D

Acq: 15 Jan 2024 17:06

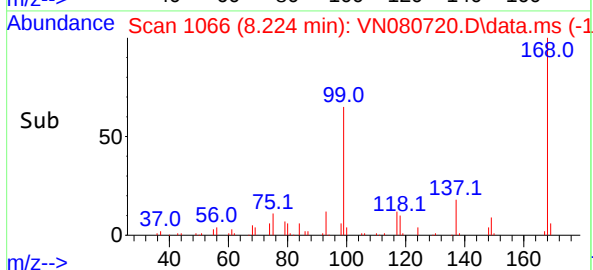
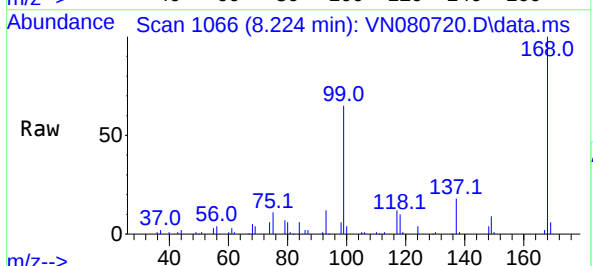
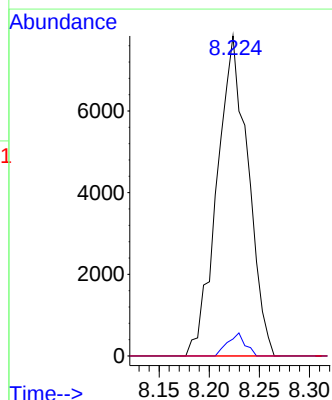
Tgt Ion: 117 Resp: 16902

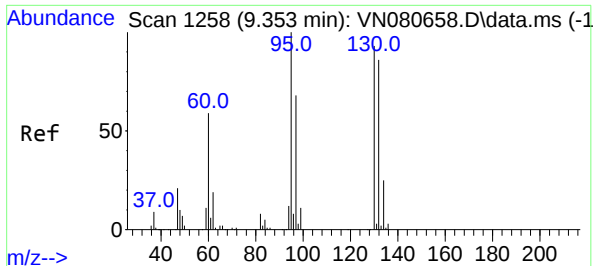
Ion Ratio Lower Upper

117 100

119 5.3 77.3 115.9#

121 0.0 23.3 34.9#

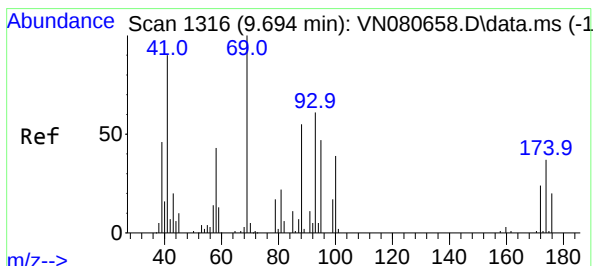
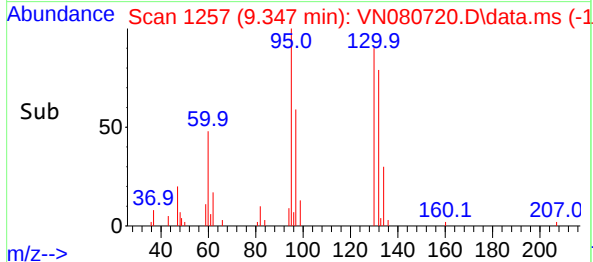
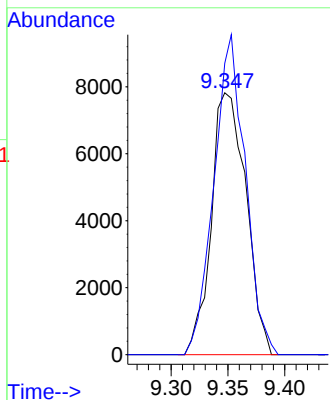
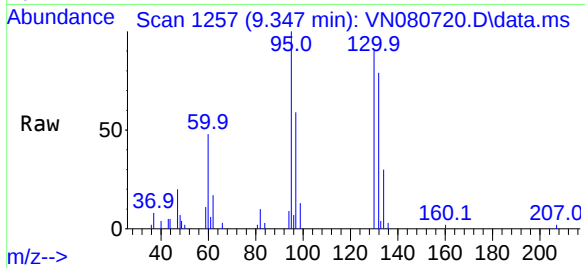




#44  
Trichloroethene  
Concen: 6.742 ug/l  
RT: 9.347 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

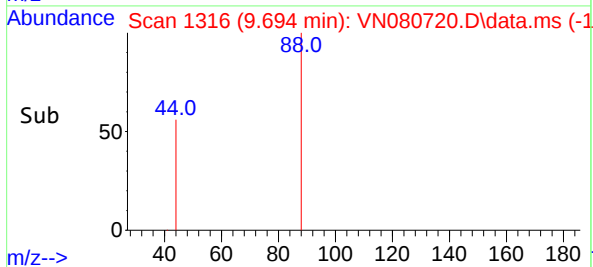
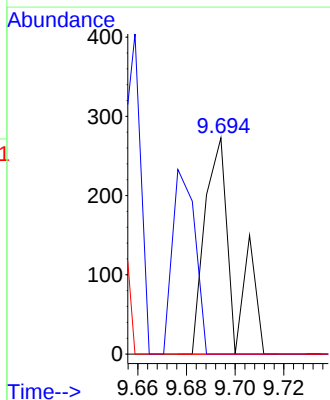
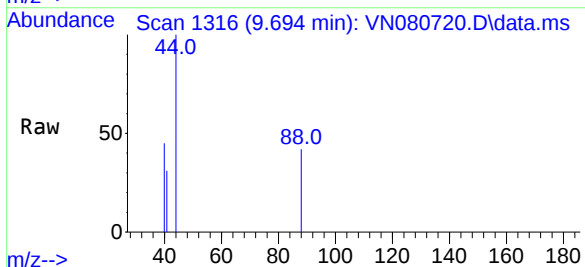
Instrument :  
MSVOA\_N  
ClientSampleId :

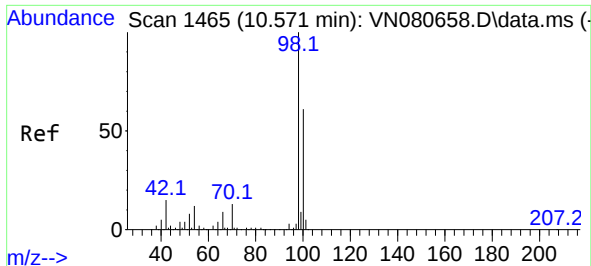
Tgt Ion:130 Resp: 16632  
Ion Ratio Lower Upper  
130 100  
95 111.2 0.0 204.6



#49  
1,4-Dioxane  
Concen: 5.398 ug/l  
RT: 9.694 min Scan# 1316  
Delta R.T. 0.000 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Tgt Ion: 88 Resp: 220  
Ion Ratio Lower Upper  
88 100  
43 68.2 17.0 25.6#  
58 0.0 47.0 70.4#

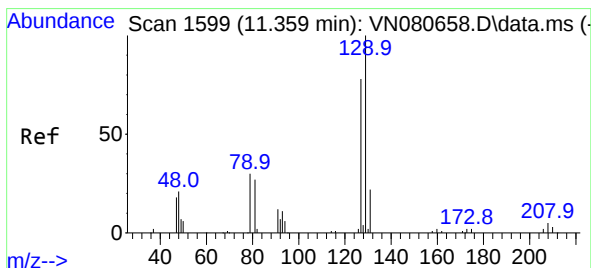
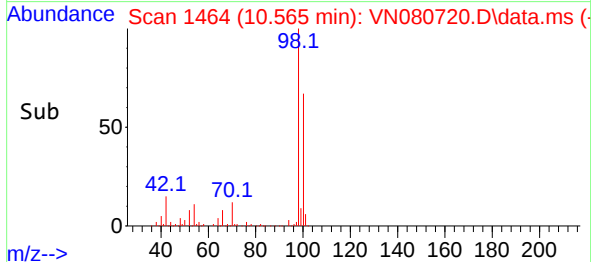
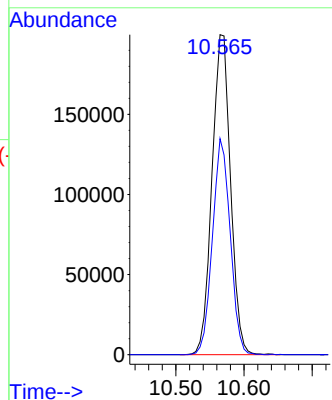
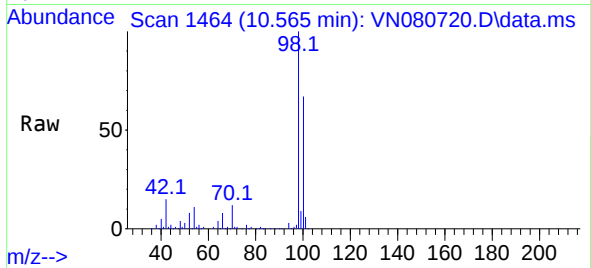




#50  
Toluene-d8  
Concen: 52.401 ug/l  
RT: 10.565 min Scan# 1465  
Delta R.T. -0.006 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

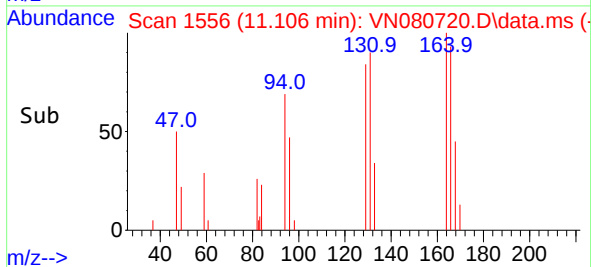
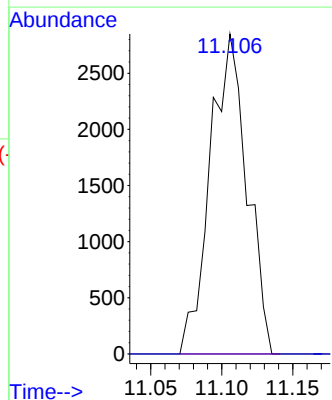
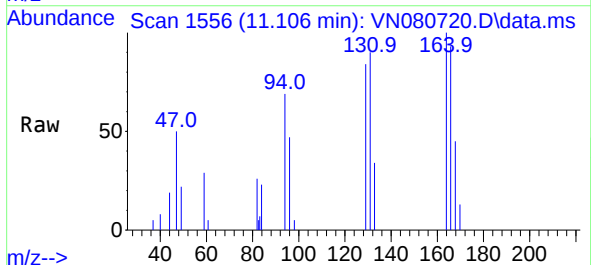
Instrument :  
MSVOA\_N  
ClientSampleId :

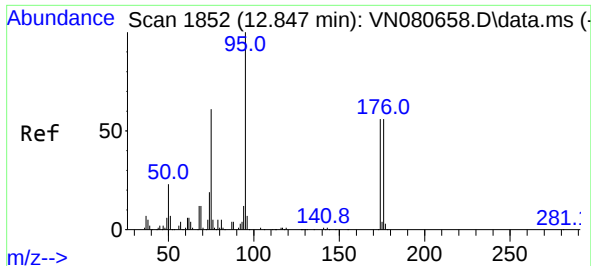
Tgt Ion: 98 Resp: 378086  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.0 78.0



#60  
Dibromochloromethane  
Concen: 2.084 ug/l  
RT: 11.106 min Scan# 1556  
Delta R.T. -0.253 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Tgt Ion:129 Resp: 5147  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#

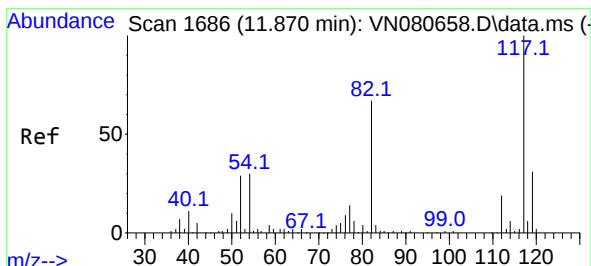
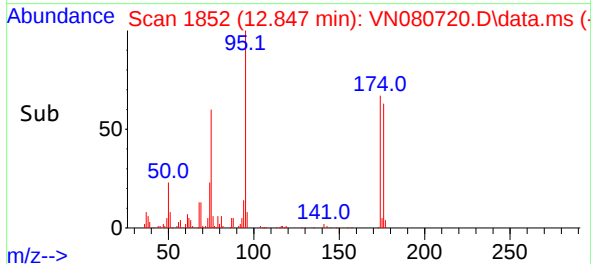
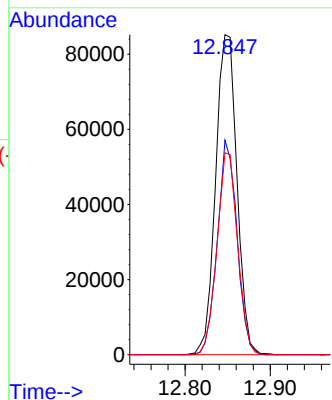
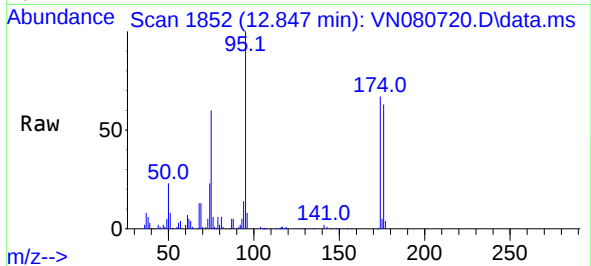




#62  
4-Bromofluorobenzene  
Concen: 53.510 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

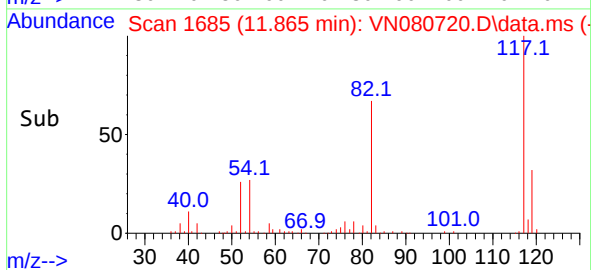
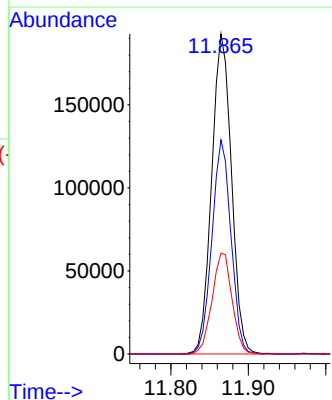
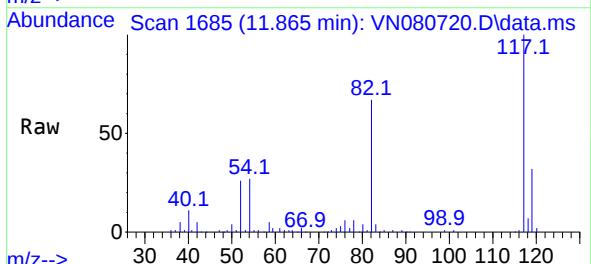
Instrument :  
MSVOA\_N  
ClientSampleId :

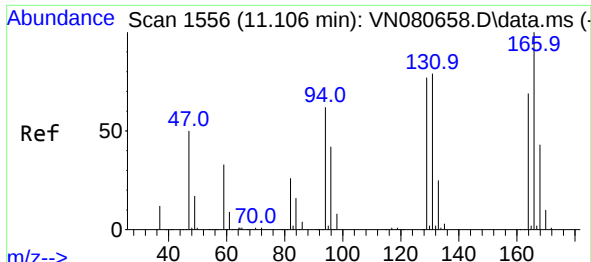
Tgt Ion: 95 Resp: 148055  
Ion Ratio Lower Upper  
95 100  
174 61.9 0.0 143.8  
176 61.0 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.006 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

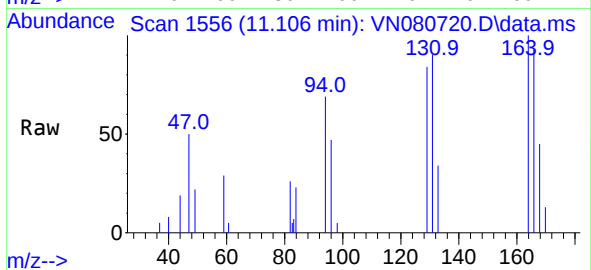
Tgt Ion: 117 Resp: 342148  
Ion Ratio Lower Upper  
117 100  
82 66.9 44.0 66.0#  
119 31.5 25.6 38.4



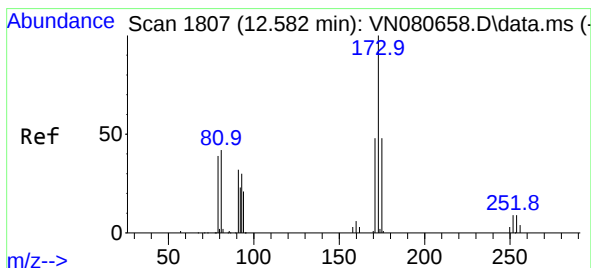
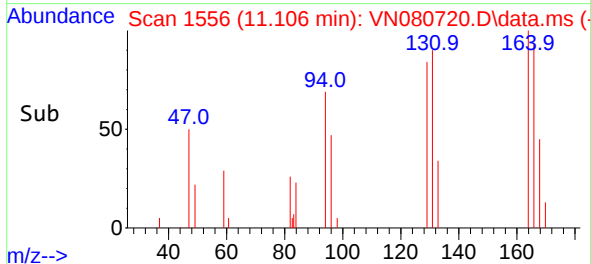
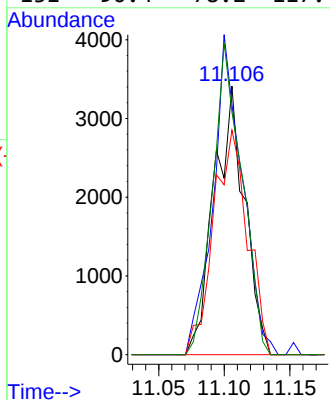


#64  
Tetrachloroethene  
Concen: 2.358 ug/l  
RT: 11.106 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Instrument :  
MSVOA\_N  
ClientSampleId :

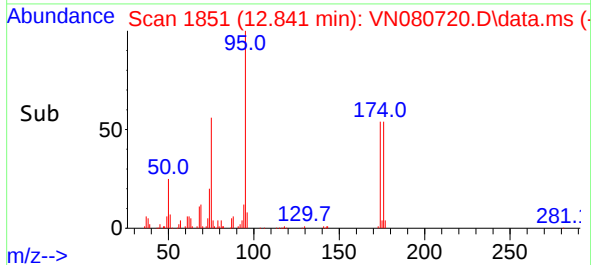
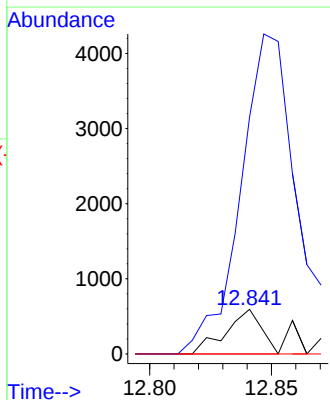
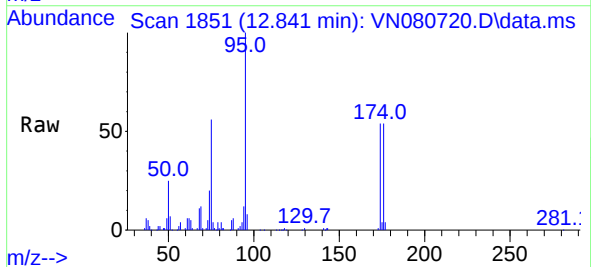


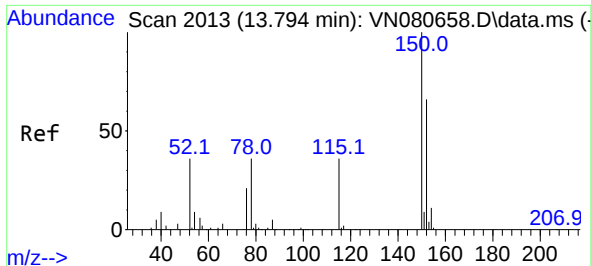
Tgt Ion:164 Resp: 5541  
Ion Ratio Lower Upper  
164 100  
166 93.0 101.4 152.0#  
129 83.6 82.4 123.6  
131 90.4 78.2 117.4



#71  
Bromoform  
Concen: 0.331 ug/l  
RT: 12.841 min Scan# 1851  
Delta R.T. 0.259 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

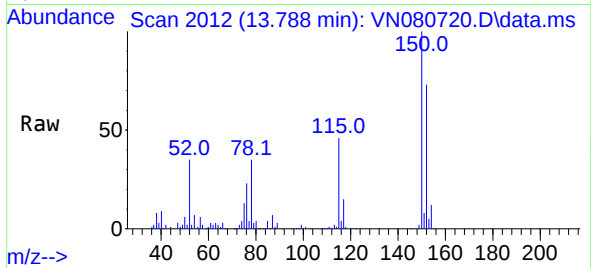
Tgt Ion:173 Resp: 605  
Ion Ratio Lower Upper  
173 100  
175 980.0 24.3 73.0#  
254 0.0 0.0 0.0



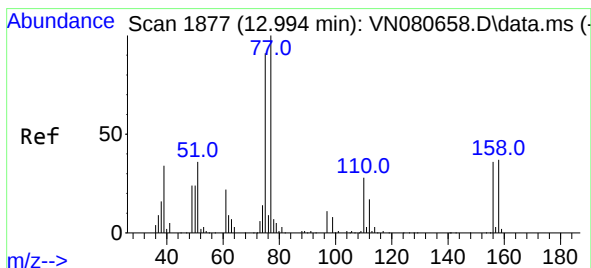
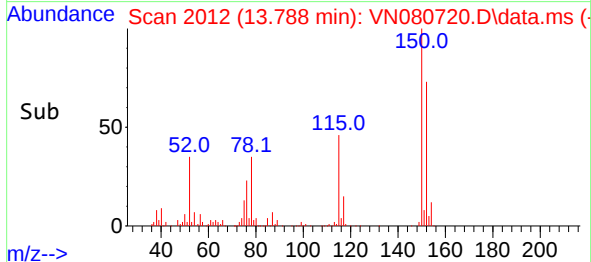
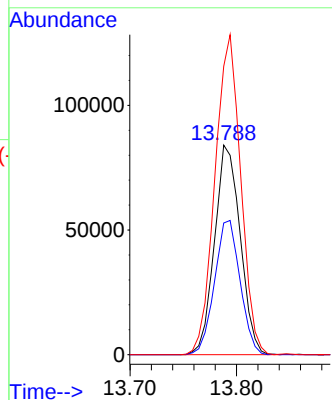


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Instrument :  
MSVOA\_N  
ClientSampleId :

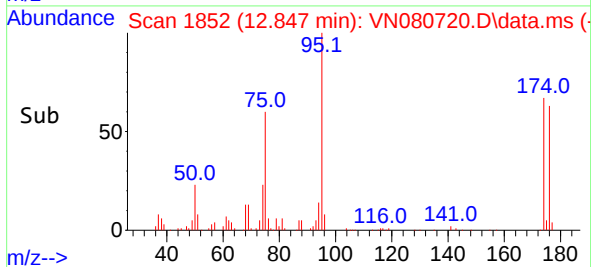
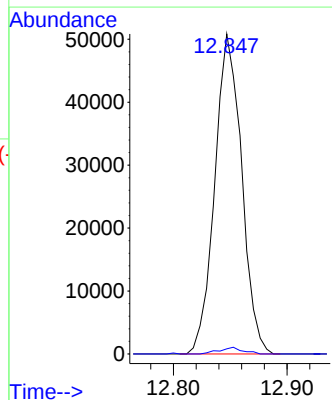
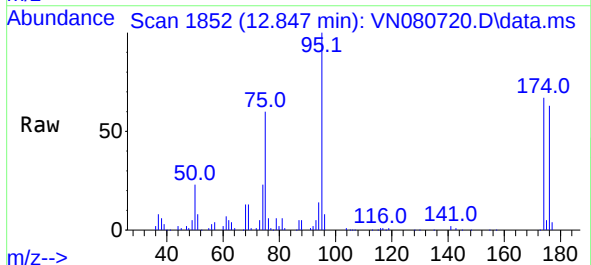


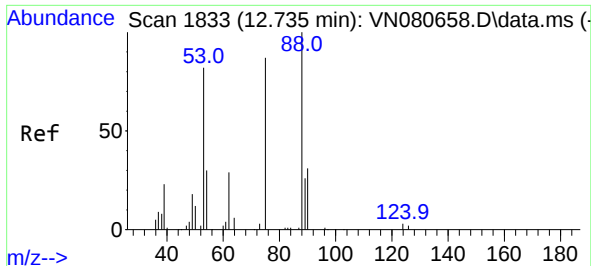
Tgt Ion:152 Resp: 140733  
Ion Ratio Lower Upper  
152 100  
115 63.7 32.3 96.8  
150 153.0 0.0 355.8



#76  
1,2,3-Trichloropropane  
Concen: 19.249 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

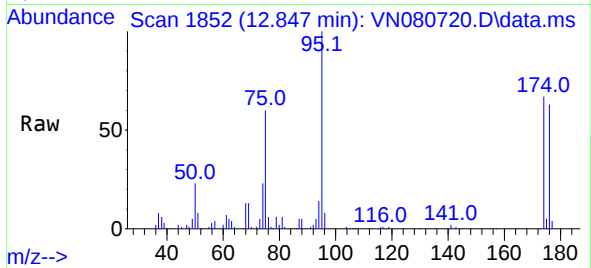
Tgt Ion: 75 Resp: 83534  
Ion Ratio Lower Upper  
75 100  
77 1.8 84.5 253.5#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 45.378 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN080720.D  
Acq: 15 Jan 2024 17:06

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 83534  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#

