

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102422\  
 Data File : VN074989.D  
 Acq On : 24 Oct 2022 17:25  
 Operator : JC\MD  
 Sample : N5222-17RE  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 25 06:51:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102022W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 21 09:37:47 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.235  | 168  | 2707742  | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.106  | 114  | 4754431  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 5282437  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 3308555  | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.582  | 65    | 3217524  | 44.723   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 89.440%  |
| 35) Dibromofluoromethane    | 8.177  | 113   | 2454013  | 43.365   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 86.720%  |
| 50) Toluene-d8              | 10.570 | 98    | 10971623 | 50.532   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 101.060% |
| 62) 4-Bromofluorobenzene    | 12.853 | 95    | 3698170  | 48.287   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 96.580%  |

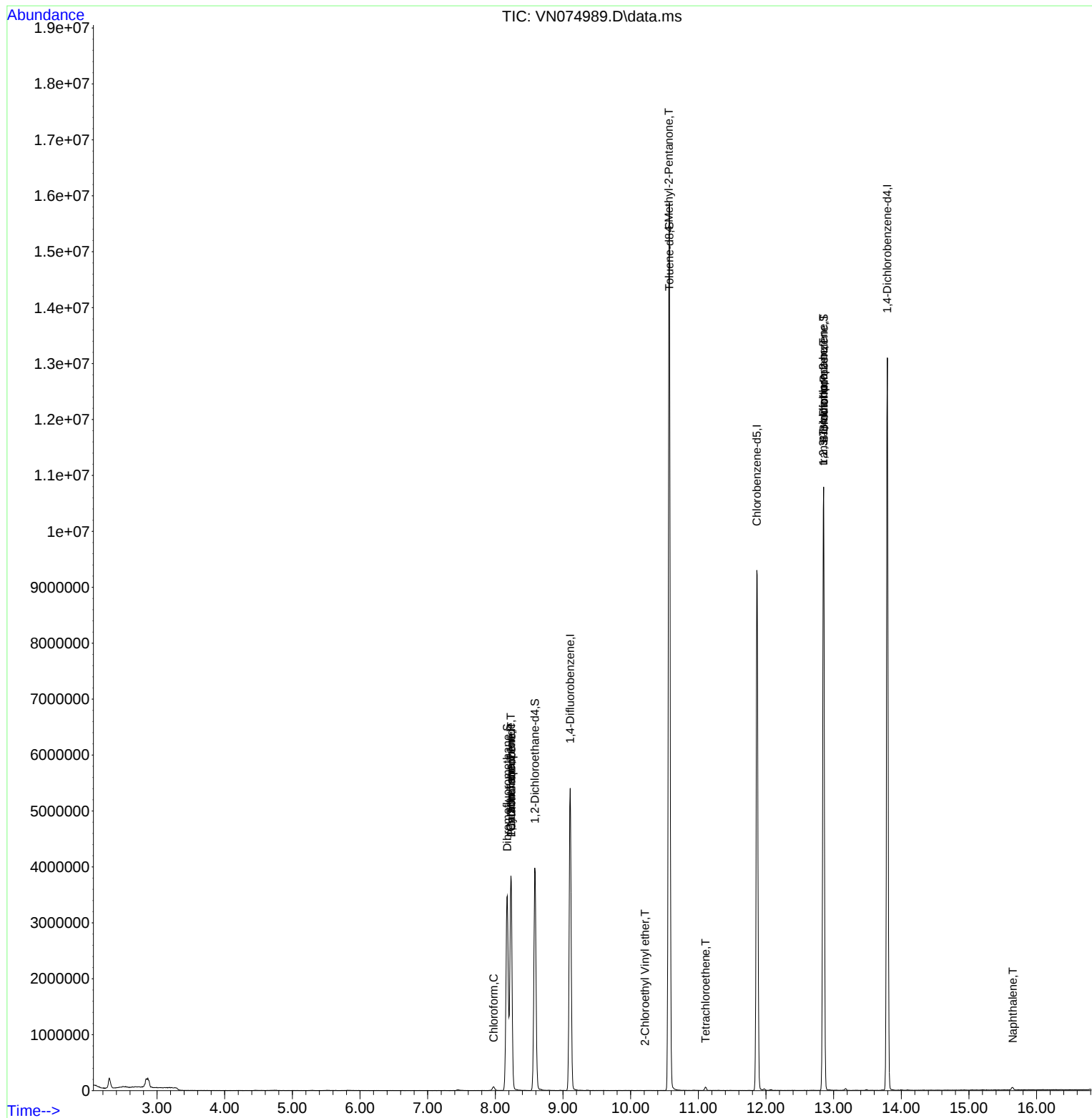
|                               |        |     |         |           |        |        |
|-------------------------------|--------|-----|---------|-----------|--------|--------|
| Target Compounds              |        |     |         |           |        | Qvalue |
| 3) Chloromethane              | 2.365  | 50  | 3057    | Below Cal | #      | 68     |
| 4) Vinyl Chloride             | 2.512  | 62  | 639     | Below Cal | #      | 74     |
| 5) Bromomethane               | 2.936  | 94  | 3085    | Below Cal |        | 89     |
| 6) Chloroethane               | 3.253  | 64  | 10894   | Below Cal | #      | 66     |
| 7) Trichlorofluoromethane     | 3.377  | 101 | 59      | Below Cal | #      | 18     |
| 9) 1,1,2-Trichlorotrifluo...  | 4.365  | 101 | 73      | Below Cal | #      | 19     |
| 12) 1,1-Dichloroethene        | 4.447  | 96  | 109     | Below Cal | #      | 1      |
| 13) Acrolein                  | 4.194  | 56  | 393     | Below Cal | #      | 1      |
| 16) Acetone                   | 4.459  | 43  | 6191    | Below Cal |        | 92     |
| 17) Carbon Disulfide          | 4.712  | 76  | 415     | Below Cal | #      | 74     |
| 20) Methylene Chloride        | 5.294  | 84  | 1443    | Below Cal | #      | 53     |
| 21) trans-1,2-Dichloroethene  | 5.812  | 96  | 280     | Below Cal | #      | 1      |
| 30) Chloroform                | 7.977  | 83  | 61188   | 0.581     | ug/l   | 94     |
| 31) Cyclohexane               | 8.229  | 56  | 69721   | 0.949     | ug/l # | 45     |
| 36) 1,1-Dichloropropene       | 8.235  | 75  | 242750  | 3.406     | ug/l # | 48     |
| 38) Carbon Tetrachloride      | 8.229  | 117 | 298373  | 3.846     | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43  | 44288   | 0.514     | ug/l # | 1      |
| 58) 2-Chloroethyl Vinyl ether | 10.212 | 63  | 71      | 3.611     | ug/l # | 45     |
| 64) Tetrachloroethene         | 11.106 | 164 | 12225   | 0.283     | ug/l   | 84     |
| 71) Bromoform                 | 12.853 | 173 | 29498   | 0.649     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75  | 2030658 | 22.632    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75  | 2030658 | 72.564    | ug/l # | 10     |
| 95) Naphthalene               | 15.647 | 128 | 41141   | 0.205     | ug/l   | 95     |

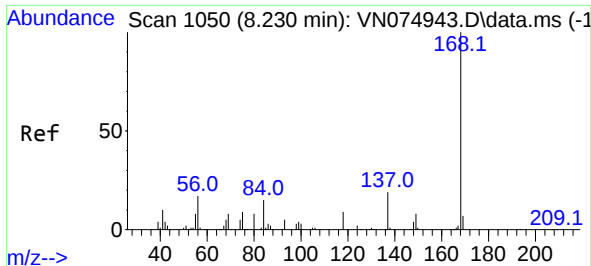
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Oct 21 09:37:47 2022  
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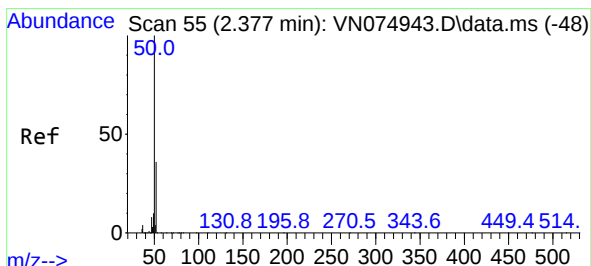
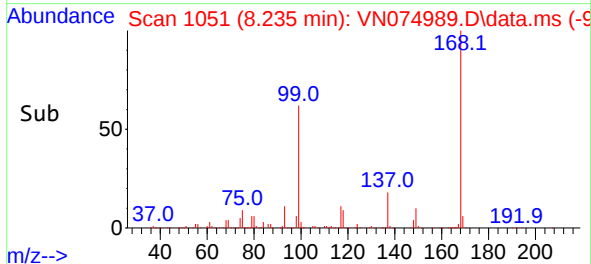
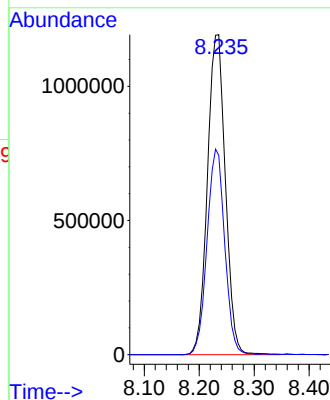
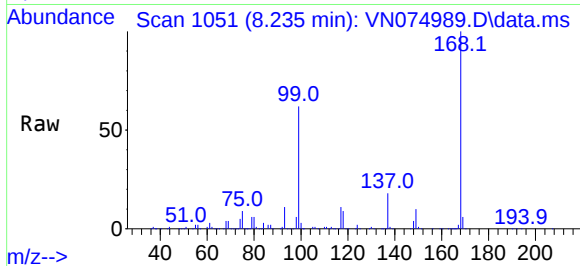




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.235 min Scan# 10  
Delta R.T. 0.005 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

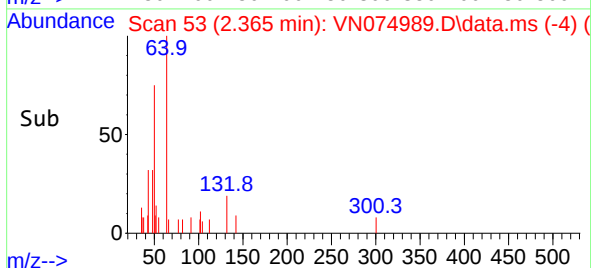
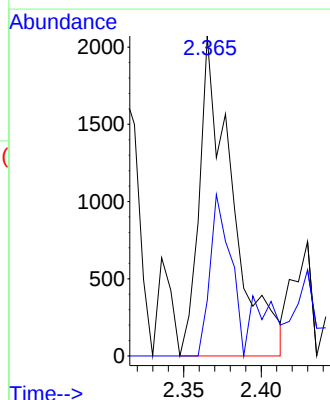
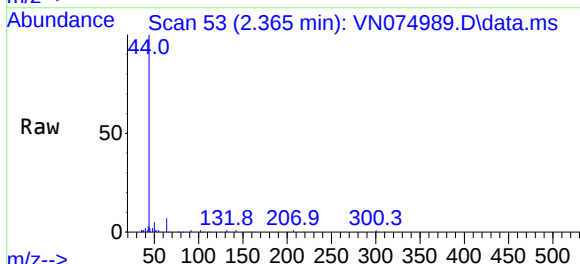
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MSVOA\_N  
ClientSampleId :

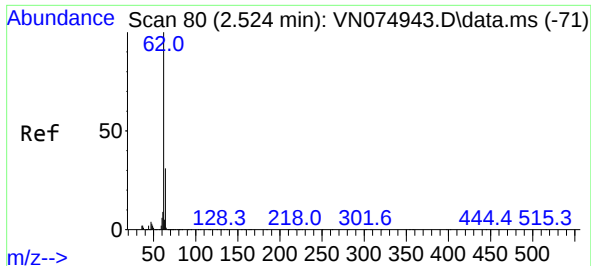
Tgt Ion:168 Resp: 2707742  
Ion Ratio Lower Upper  
168 100  
99 62.3 52.2 78.4



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 53  
Delta R.T. -0.012 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Tgt Ion: 50 Resp: 3057  
Ion Ratio Lower Upper  
50 100  
52 17.3 28.8 43.2#

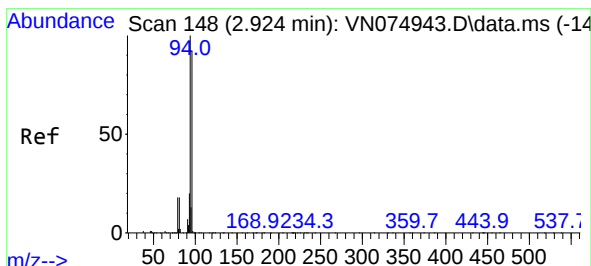
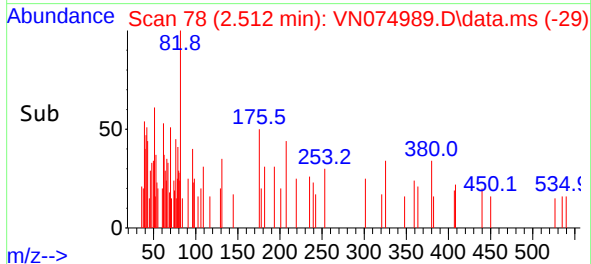
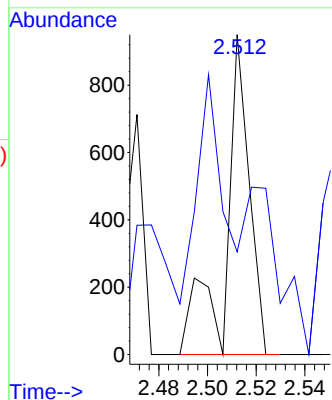
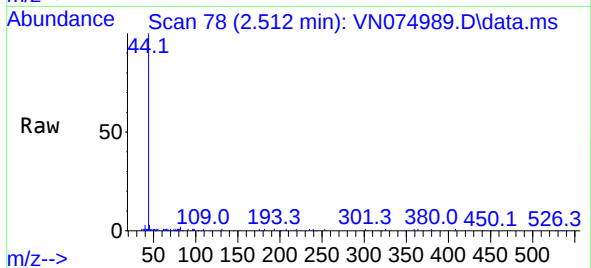




#4  
Vinyl Chloride  
Concen: Below Cal  
RT: 2.512 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

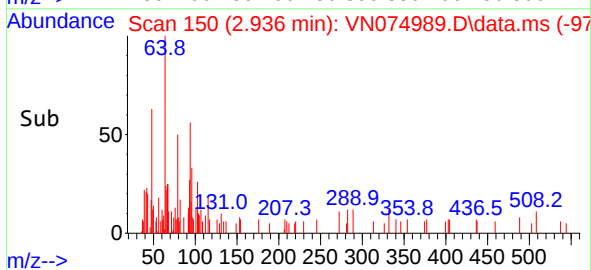
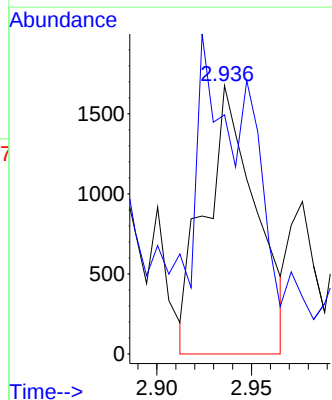
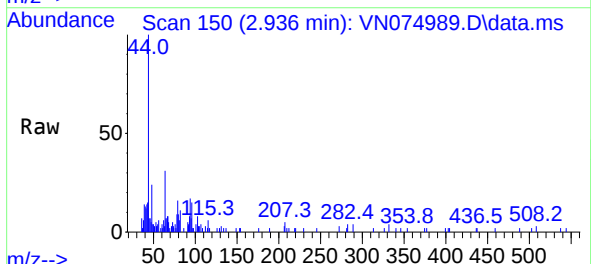
Instrument :  
MSVOA\_N  
ClientSampleId :

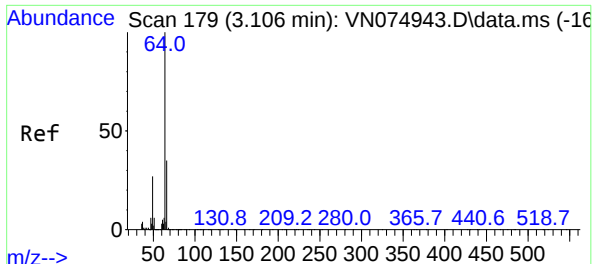
Tgt Ion: 62 Resp: 639  
Ion Ratio Lower Upper  
62 100  
64 16.3 24.5 36.7#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.936 min Scan# 150  
Delta R.T. 0.012 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Tgt Ion: 94 Resp: 3085  
Ion Ratio Lower Upper  
94 100  
96 80.9 73.5 110.3

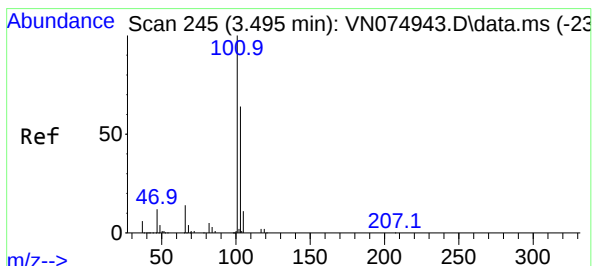
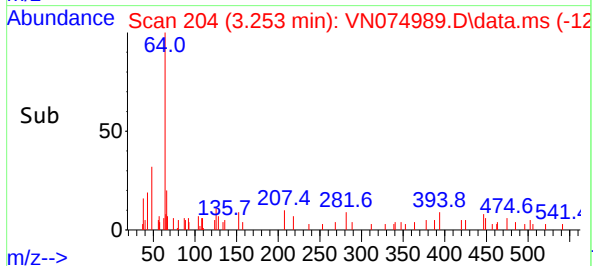
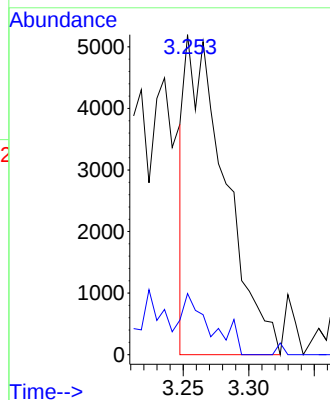
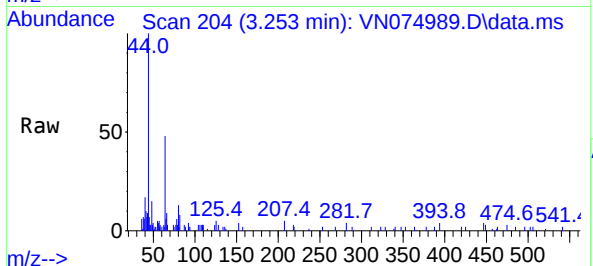




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.253 min Scan# 20  
Delta R.T. 0.147 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

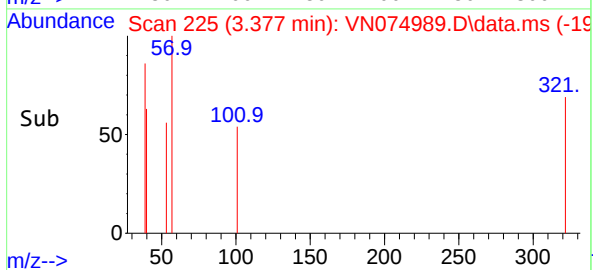
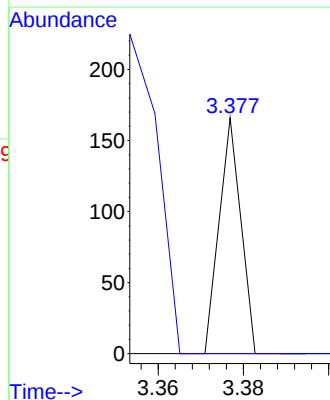
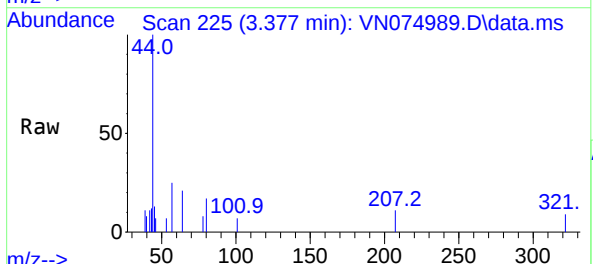
Instrument :  
MSVOA\_N  
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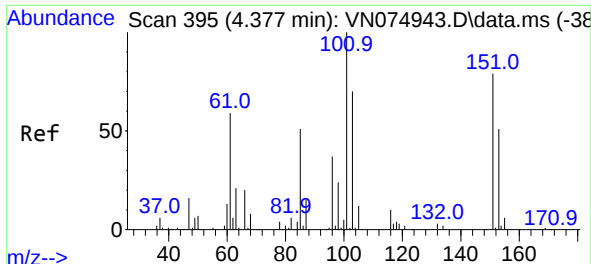
Tgt Ion: 64 Resp: 10894  
Ion Ratio Lower Upper  
64 100  
66 15.4 27.9 41.9#



#7  
Trichlorofluoromethane  
Concen: Below Cal  
RT: 3.377 min Scan# 225  
Delta R.T. -0.118 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Tgt Ion:101 Resp: 59  
Ion Ratio Lower Upper  
101 100  
103 0.0 51.5 77.3#

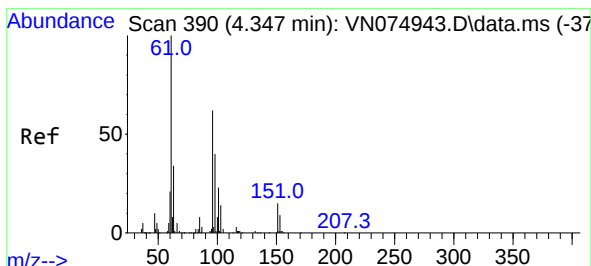
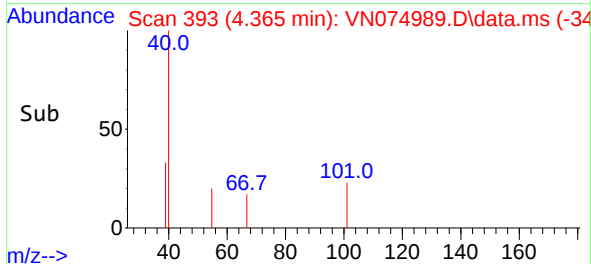
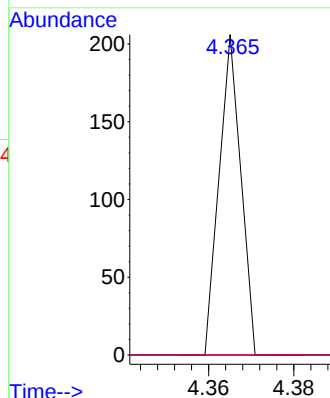
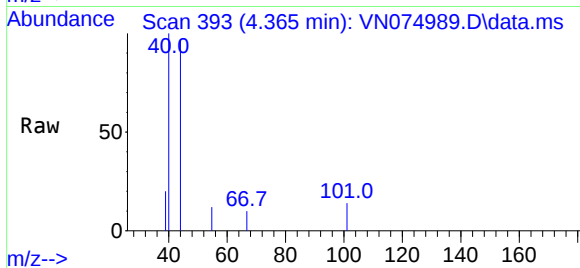




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: Below Cal  
RT: 4.365 min Scan# 395  
Delta R.T. -0.012 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

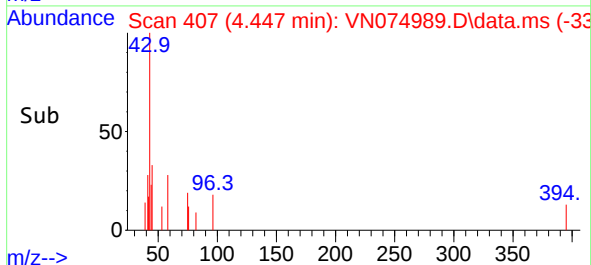
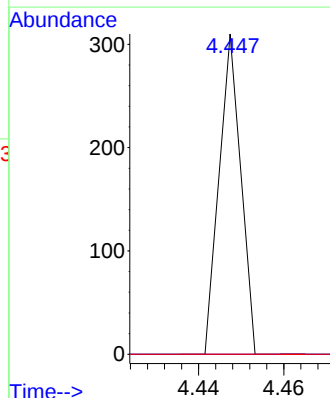
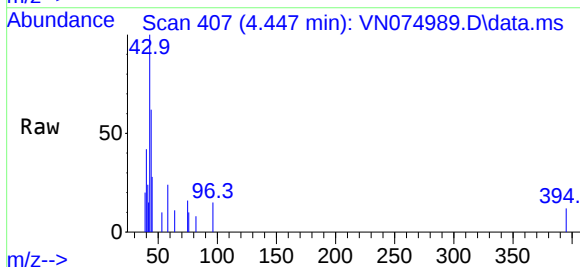
Instrument :  
MSVOA\_N  
ClientSampleId :

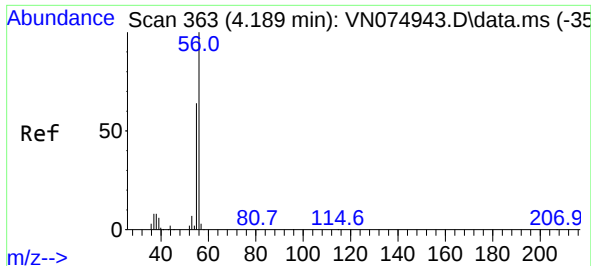
Tgt Ion:101 Resp: 73  
Ion Ratio Lower Upper  
101 100  
85 0.0 37.8 56.8#  
151 0.0 58.5 87.7#



#12  
1,1-Dichloroethene  
Concen: Below Cal  
RT: 4.447 min Scan# 407  
Delta R.T. 0.100 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

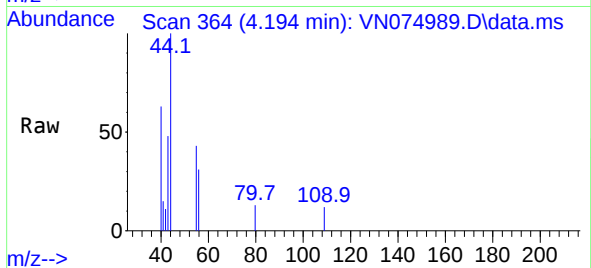
Tgt Ion: 96 Resp: 109  
Ion Ratio Lower Upper  
96 100  
61 0.0 128.9 193.3#  
98 0.0 51.8 77.8#



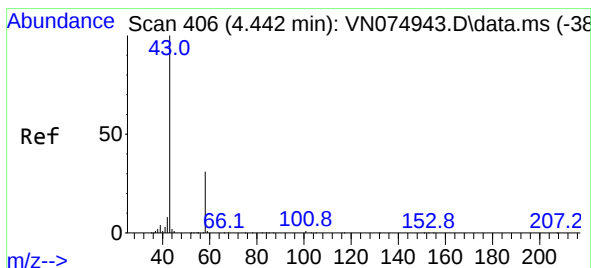
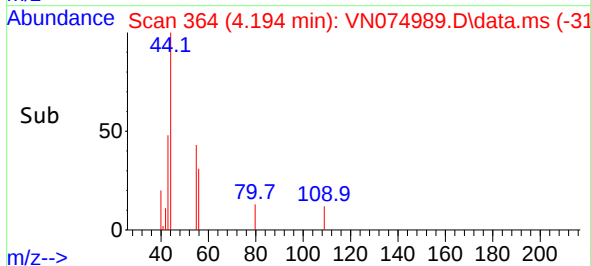
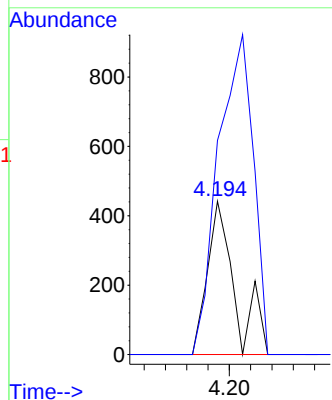


#13  
Acrolein  
Concen: Below Cal  
RT: 4.194 min Scan# 30  
Delta R.T. 0.005 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :

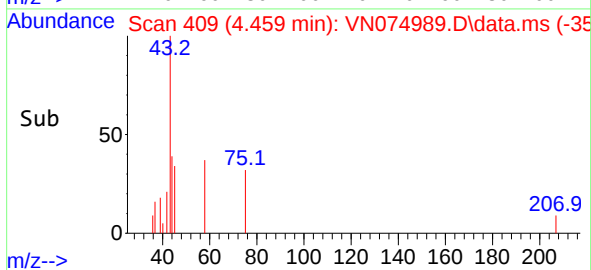
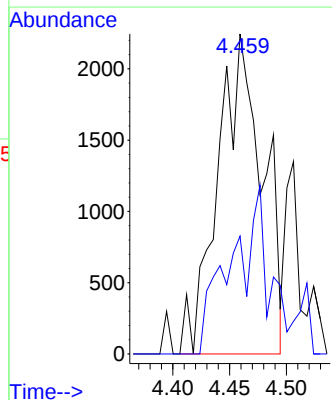
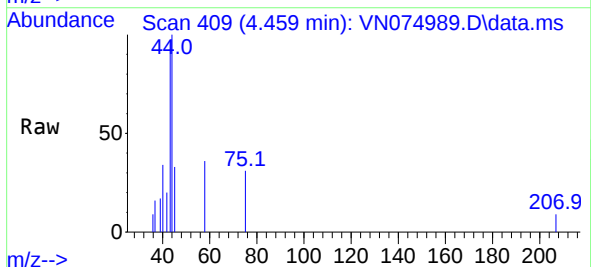


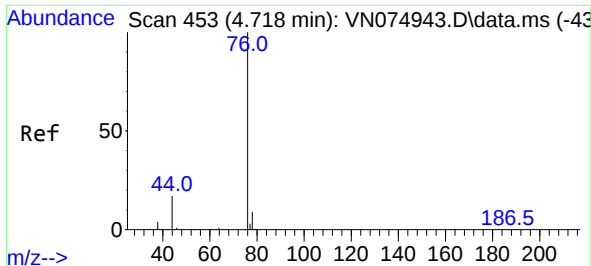
Tgt Ion: 56 Resp: 393  
Ion Ratio Lower Upper  
56 100  
55 267.9 53.7 80.5#



#16  
Acetone  
Concen: Below Cal  
RT: 4.459 min Scan# 409  
Delta R.T. 0.017 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Tgt Ion: 43 Resp: 6191  
Ion Ratio Lower Upper  
43 100  
58 36.8 25.7 38.5

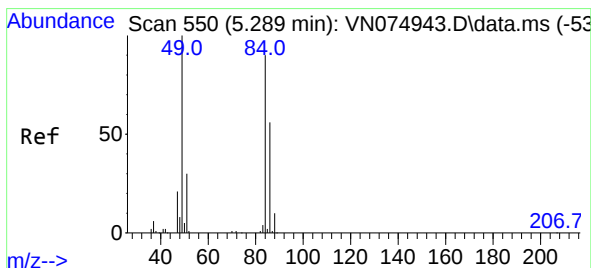
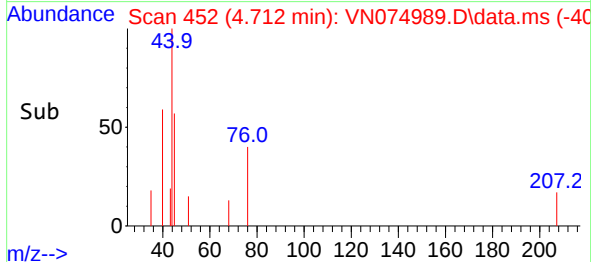
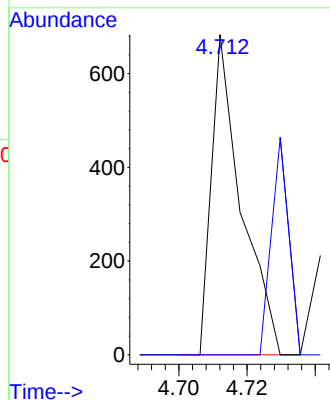
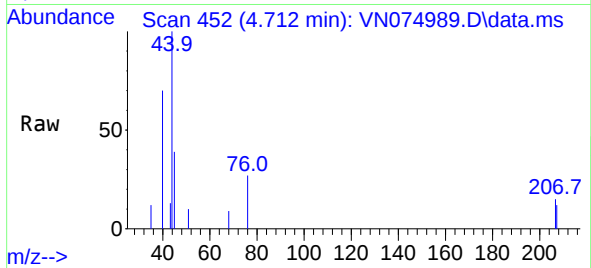




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.712 min Scan# 415  
Delta R.T. -0.006 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

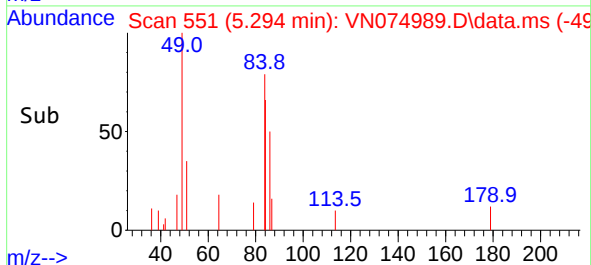
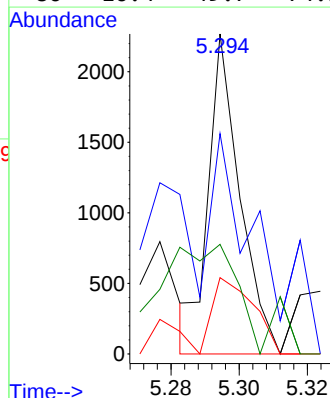
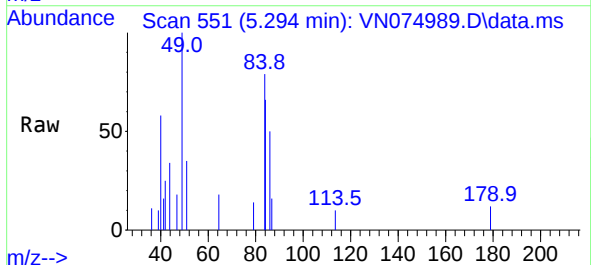
Instrument :  
MSVOA\_N  
ClientSampleId :

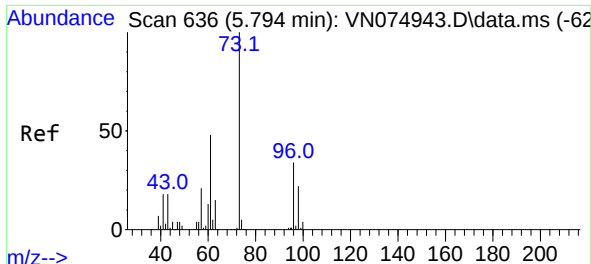
Tgt Ion: 76 Resp: 415  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.2#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.294 min Scan# 551  
Delta R.T. 0.005 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

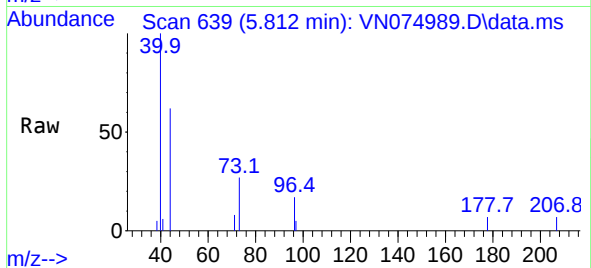
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Ion Ratio Lower Upper  
84 100  
49 58.5 88.6 133.0#  
51 23.9 26.7 40.1#  
86 16.4 49.7 74.5#



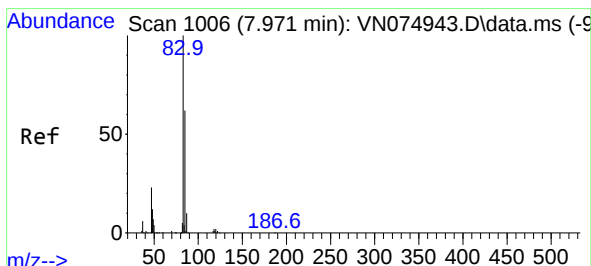
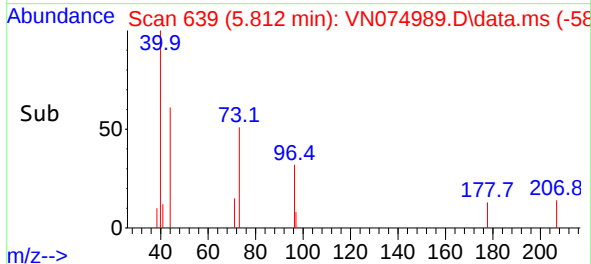
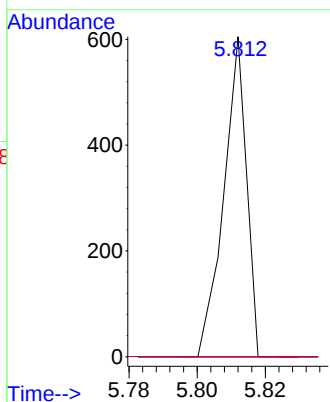


#21  
trans-1,2-Dichloroethene  
Concen: Below Cal  
RT: 5.812 min Scan# 61  
Delta R.T. 0.018 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :

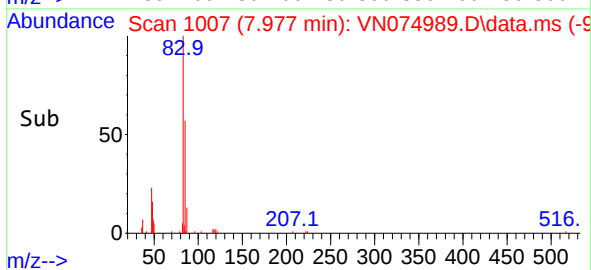
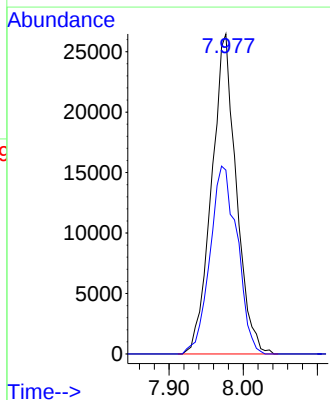
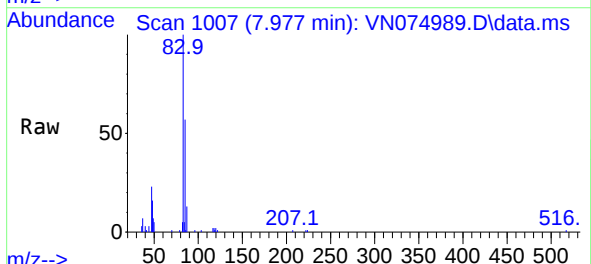


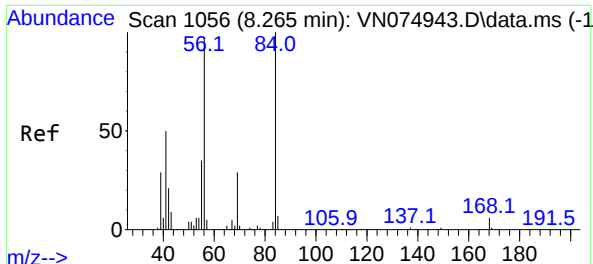
Tgt Ion: 96 Resp: 280  
Ion Ratio Lower Upper  
96 100  
61 0.0 112.6 169.0#  
98 0.0 52.4 78.6#



#30  
Chloroform  
Concen: 0.581 ug/l  
RT: 7.977 min Scan# 1007  
Delta R.T. 0.006 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

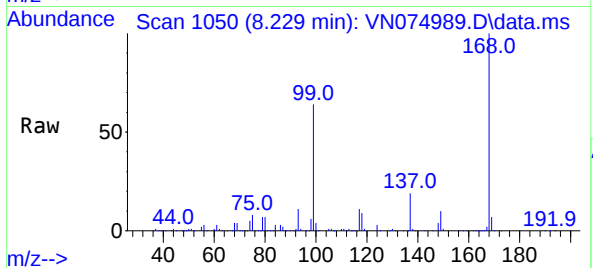
Tgt Ion: 83 Resp: 61188  
Ion Ratio Lower Upper  
83 100  
85 57.5 49.9 74.9



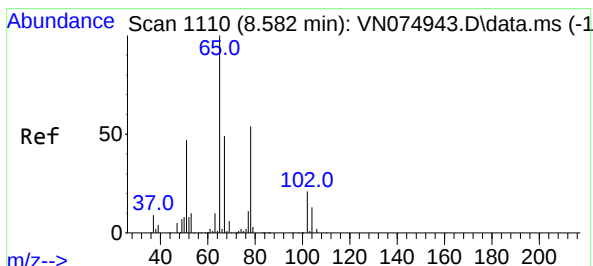
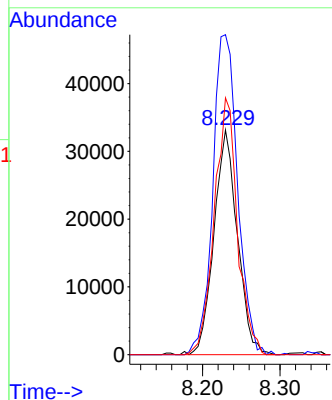
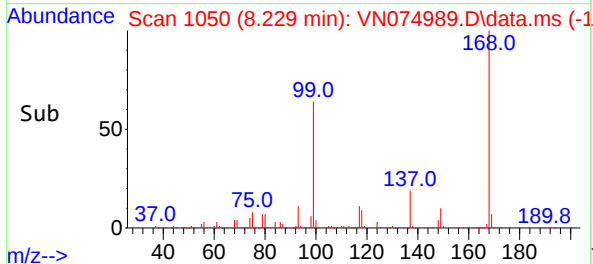


#31  
Cyclohexane  
Concen: 0.949 ug/l  
RT: 8.229 min Scan# 1050  
Delta R.T. -0.035 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :

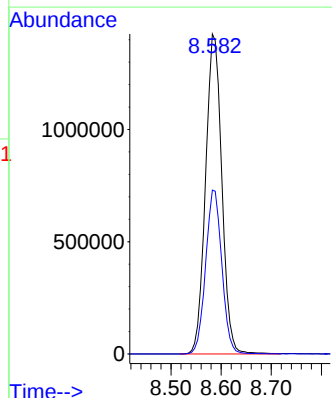
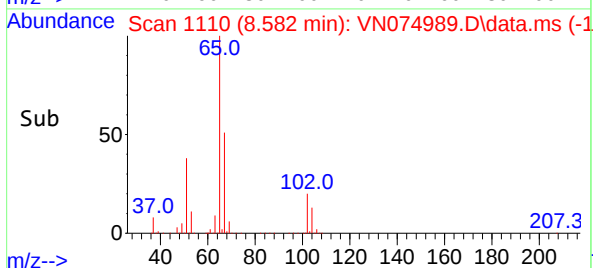
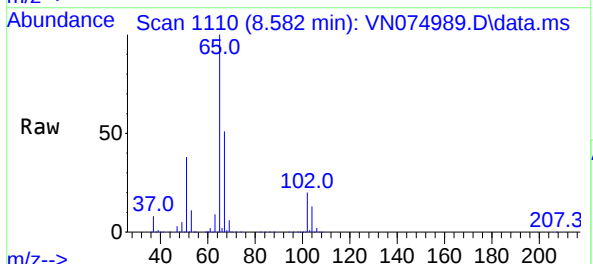


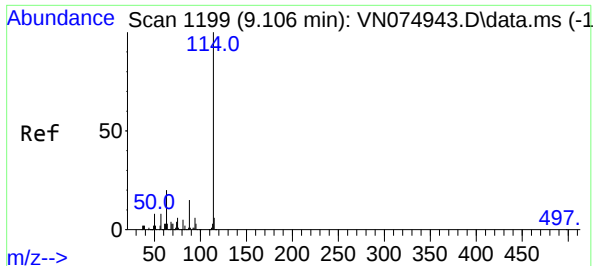
Tgt Ion: 56 Resp: 69721  
Ion Ratio Lower Upper  
56 100  
69 142.5 24.2 36.2#  
84 114.3 82.8 124.2



#33  
1,2-Dichloroethane-d4  
Concen: 44.723 ug/l  
RT: 8.582 min Scan# 1110  
Delta R.T. -0.000 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

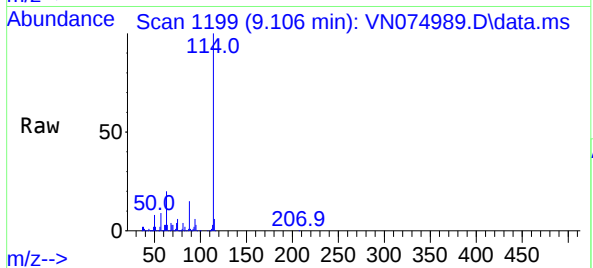
Tgt Ion: 65 Resp: 3217524  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 102.6



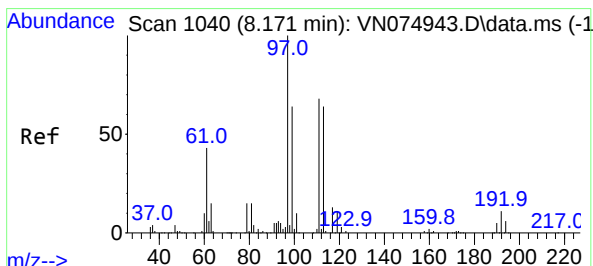
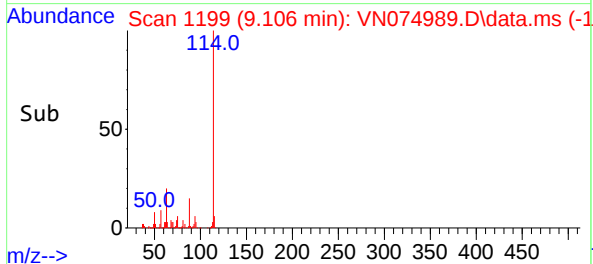
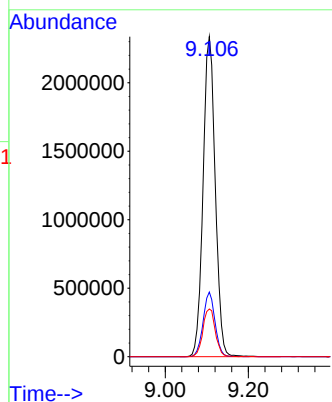


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 1199  
Delta R.T. -0.000 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :

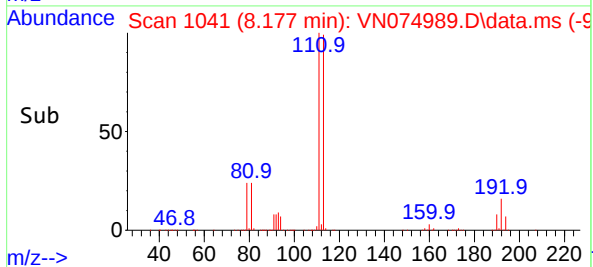
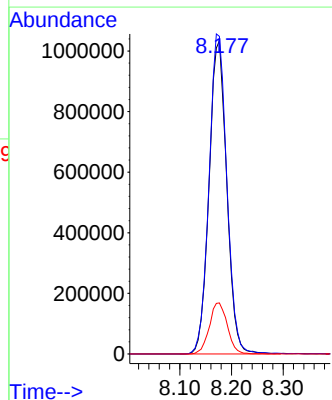
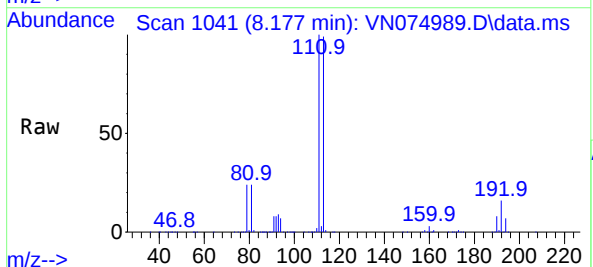


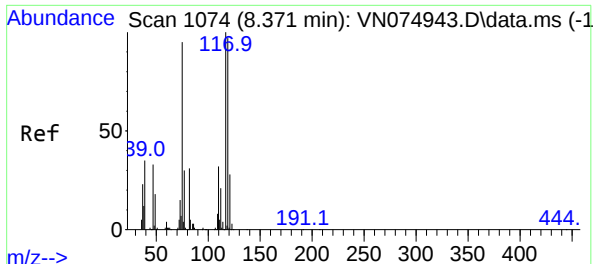
Tgt Ion:114 Resp: 4754431  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 39.8  
88 14.9 0.0 30.4



#35  
Dibromofluoromethane  
Concen: 43.365 ug/l  
RT: 8.177 min Scan# 1041  
Delta R.T. 0.006 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Tgt Ion:113 Resp: 2454013  
Ion Ratio Lower Upper  
113 100  
111 103.2 83.4 125.2  
192 16.6 13.3 19.9





#36

1,1-Dichloropropene

Concen: 3.406 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.135 min

Lab File: VN074989.D

Acq: 24 Oct 2022 17:25

Instrument :

MSVOA\_N

ClientSampleId :

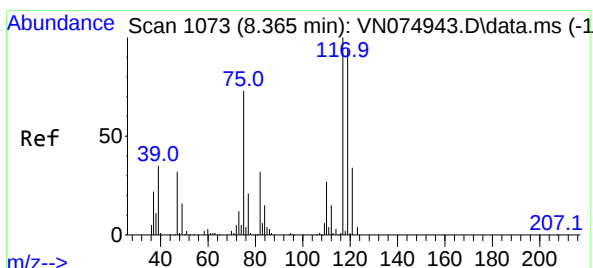
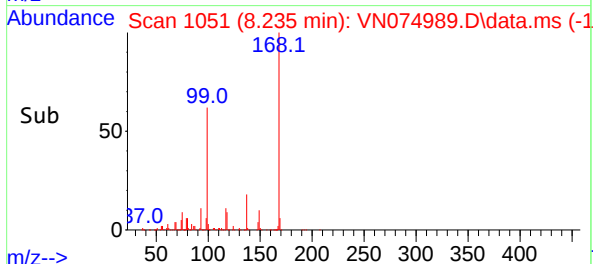
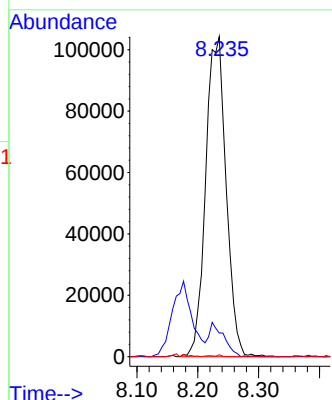
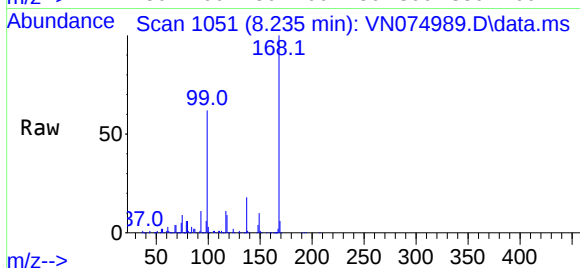
Tgt Ion: 75 Resp: 242750

Ion Ratio Lower Upper

75 100

110 7.8 18.1 54.4#

77 0.2 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 3.846 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN074989.D

Acq: 24 Oct 2022 17:25

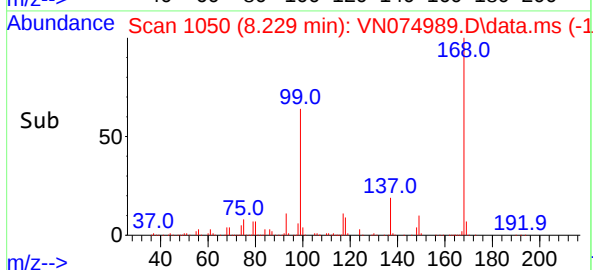
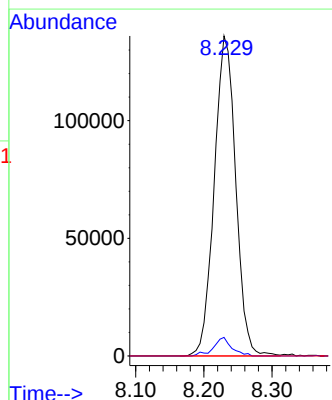
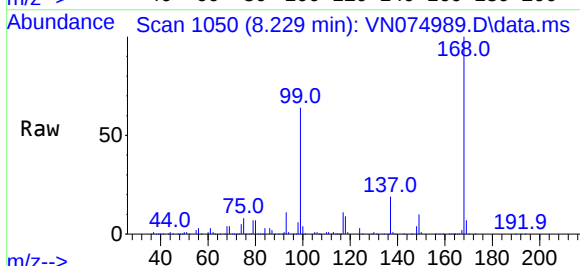
Tgt Ion: 117 Resp: 298373

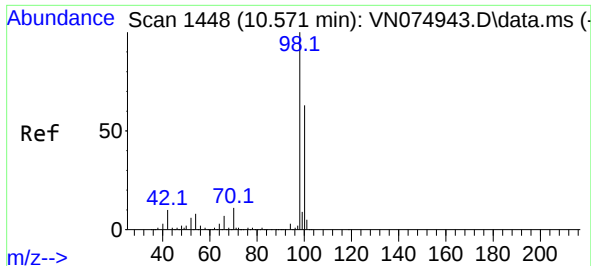
Ion Ratio Lower Upper

117 100

119 5.8 75.2 112.8#

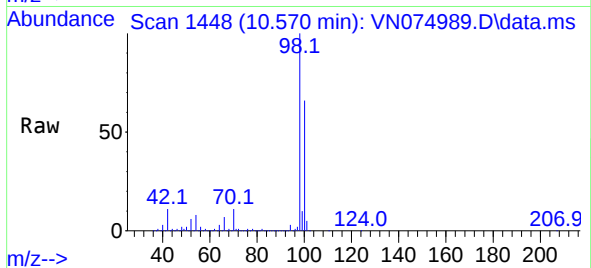
121 0.0 27.0 40.6#



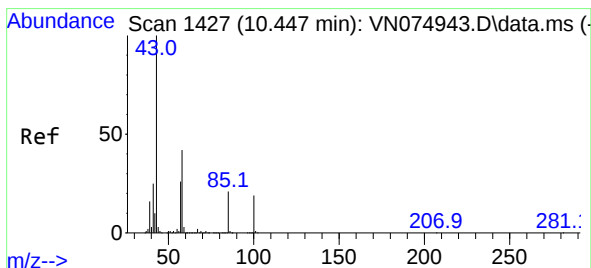
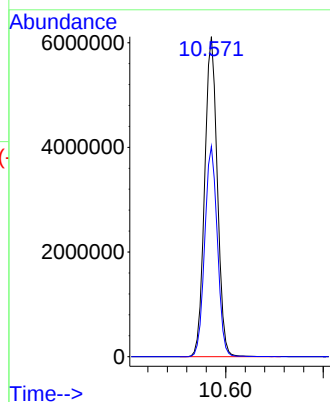
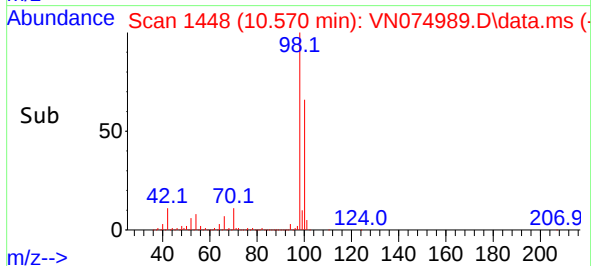


#50  
Toluene-d8  
Concen: 50.532 ug/l  
RT: 10.570 min Scan# 1448  
Delta R.T. -0.000 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :

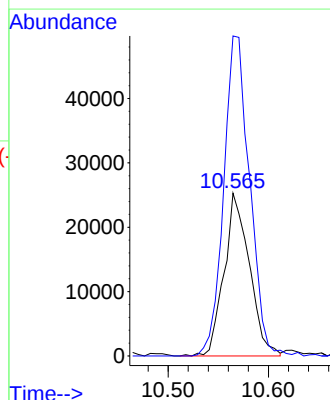
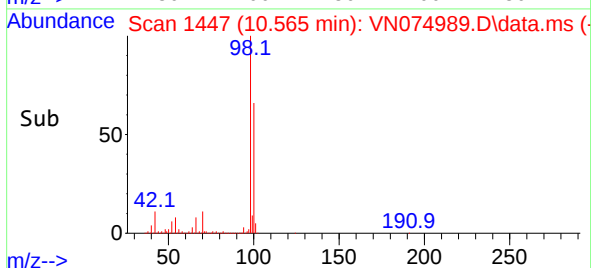
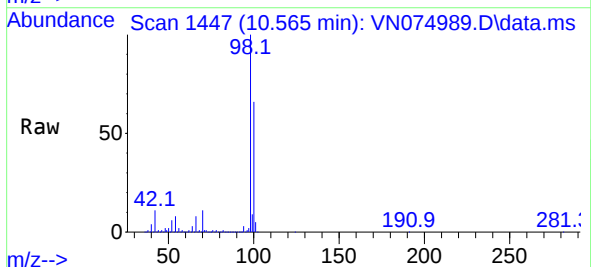


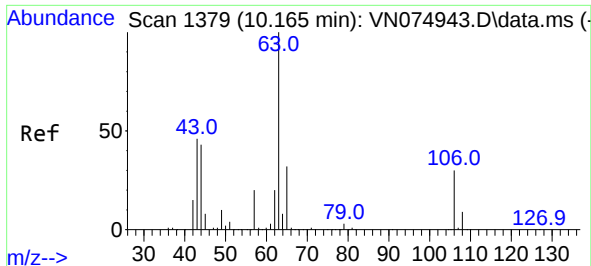
Tgt Ion: 98 Resp:10971623  
Ion Ratio Lower Upper  
98 100  
100 65.6 51.4 77.2



#51  
4-Methyl-2-Pentanone  
Concen: 0.514 ug/l  
RT: 10.565 min Scan# 1447  
Delta R.T. 0.118 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Tgt Ion: 43 Resp: 44288  
Ion Ratio Lower Upper  
43 100  
58 202.1 33.6 50.4#

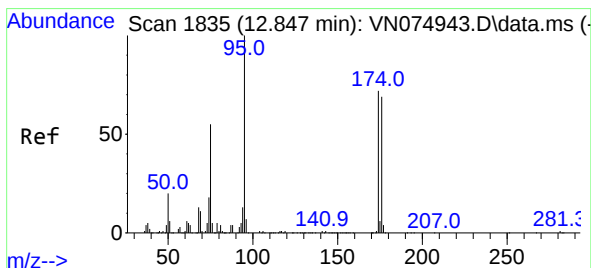
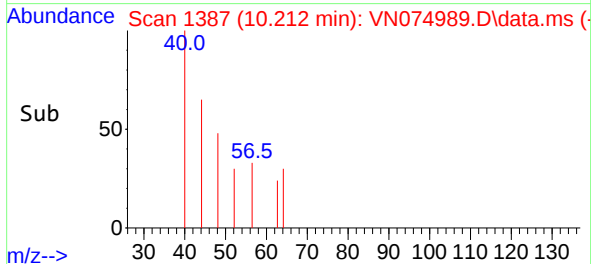
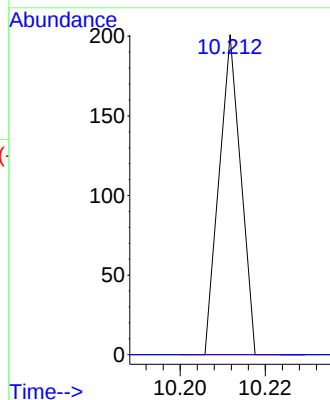
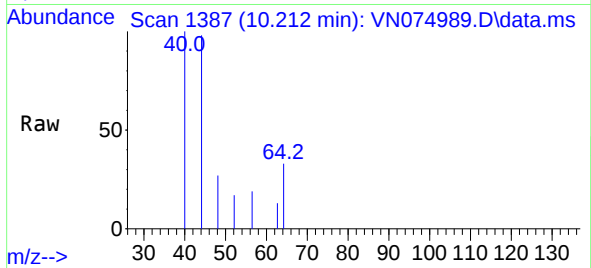




#58  
2-Chloroethyl Vinyl ether  
Concen: 3.611 ug/l  
RT: 10.212 min Scan# 11  
Delta R.T. 0.047 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

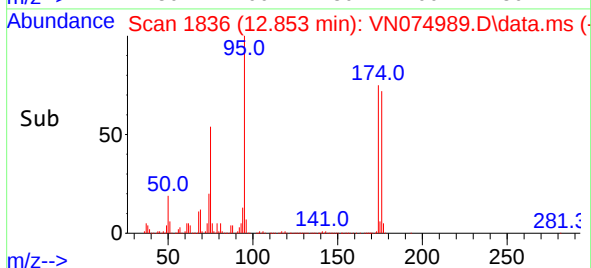
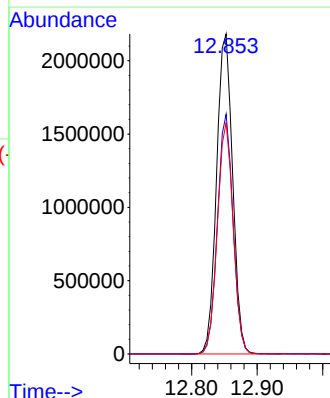
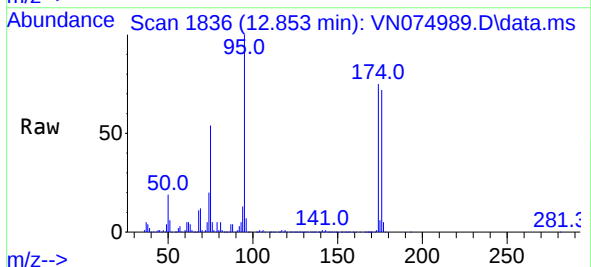
Instrument :  
MSVOA\_N  
ClientSampleId :

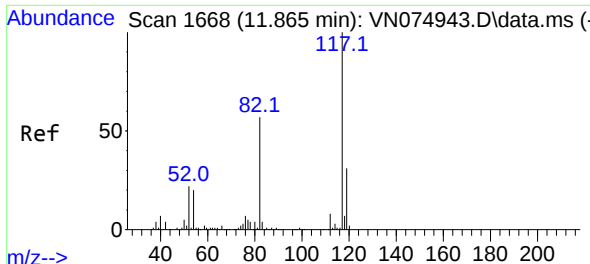
Tgt Ion: 63 Resp: 71  
Ion Ratio Lower Upper  
63 100  
106 0.0 24.1 36.1#



#62  
4-Bromofluorobenzene  
Concen: 48.287 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.006 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

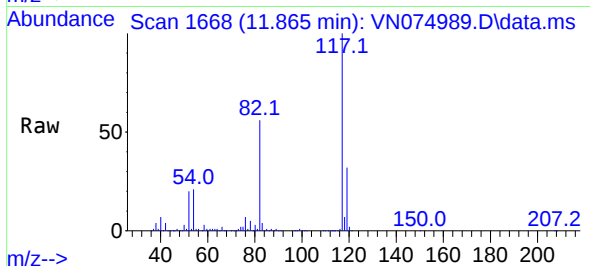
Tgt Ion: 95 Resp: 3698170  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 143.0  
176 70.7 0.0 138.2



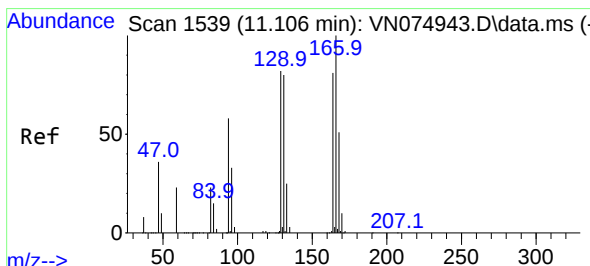
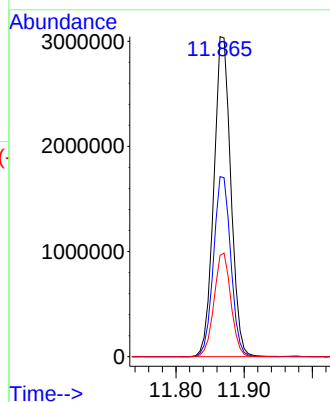
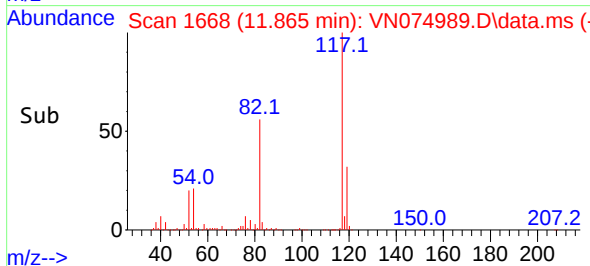


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :

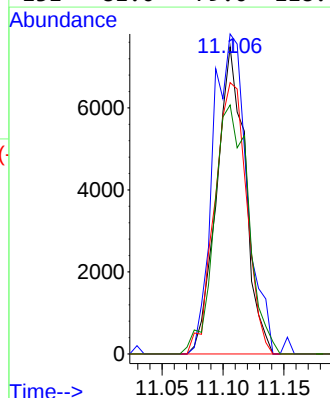
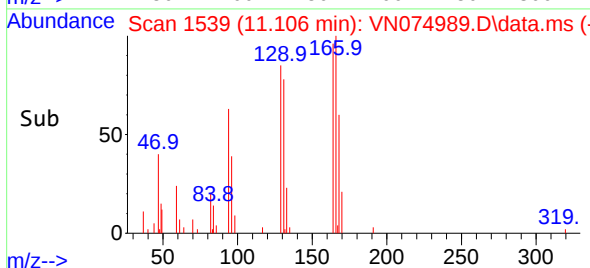
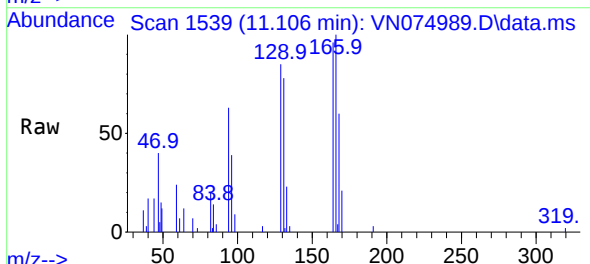


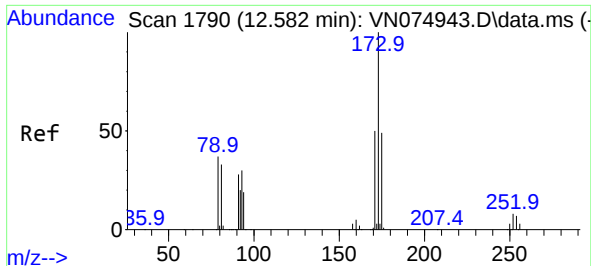
Tgt Ion:117 Resp: 5282437  
Ion Ratio Lower Upper  
117 100  
82 56.3 45.6 68.4  
119 31.7 25.1 37.7



#64  
Tetrachloroethene  
Concen: 0.283 ug/l  
RT: 11.106 min Scan# 1539  
Delta R.T. -0.000 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Tgt Ion:164 Resp: 12225  
Ion Ratio Lower Upper  
164 100  
166 104.2 98.6 148.0  
129 88.3 81.2 121.8  
131 81.0 79.0 118.6

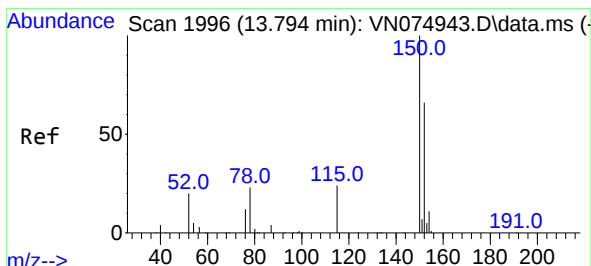
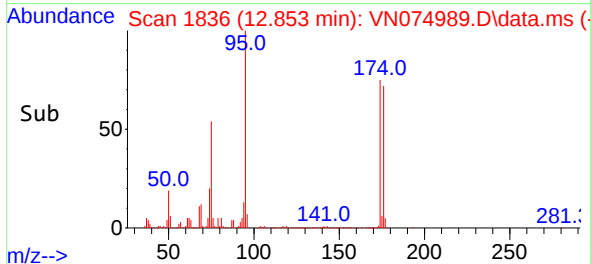
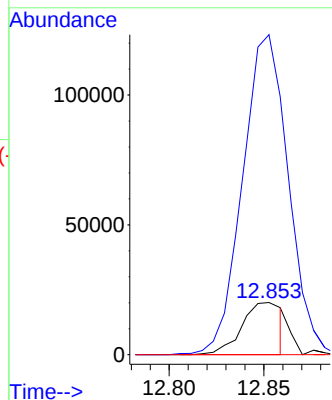
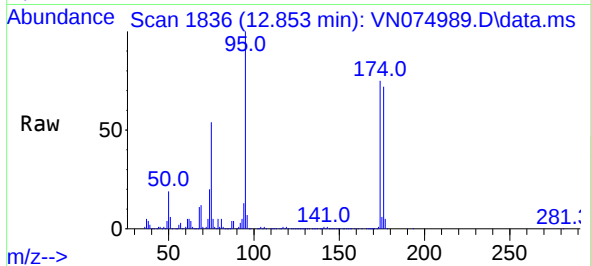




#71  
Bromoform  
Concen: 0.649 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.270 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

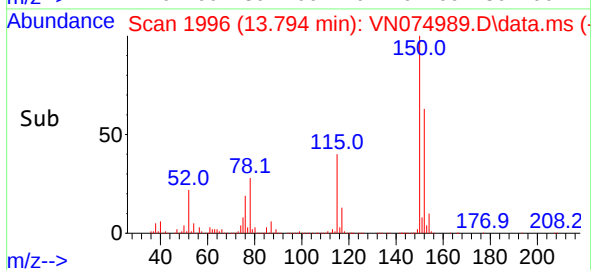
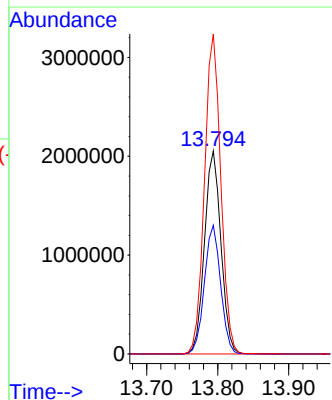
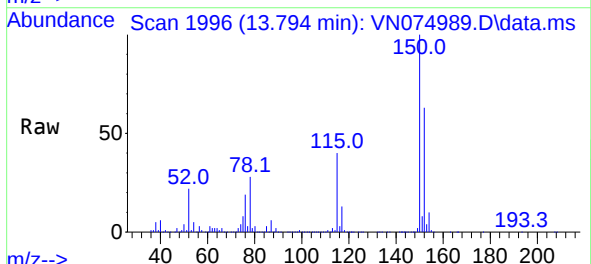
Instrument :  
MSVOA\_N  
ClientSampleId :

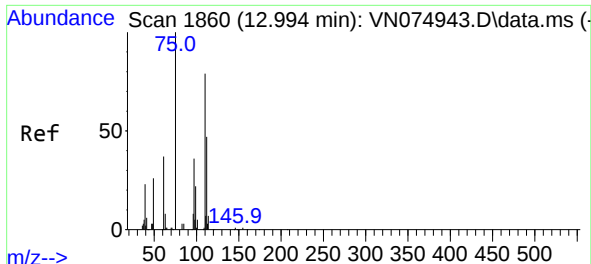
Tgt Ion:173 Resp: 29498  
Ion Ratio Lower Upper  
173 100  
175 588.8 24.8 74.3#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. -0.000 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Tgt Ion:152 Resp: 3308555  
Ion Ratio Lower Upper  
152 100  
115 62.7 31.3 93.8  
150 156.3 0.0 349.6

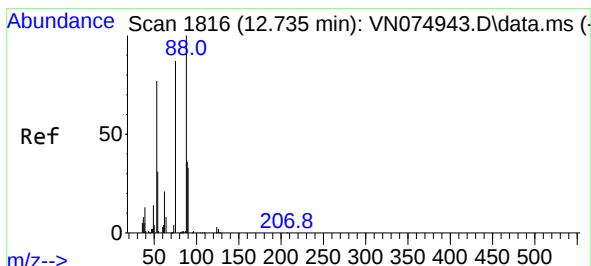
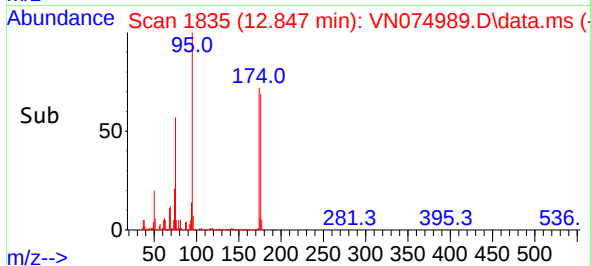
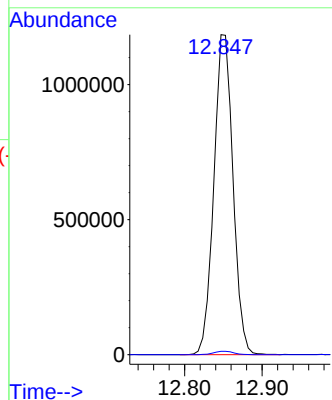
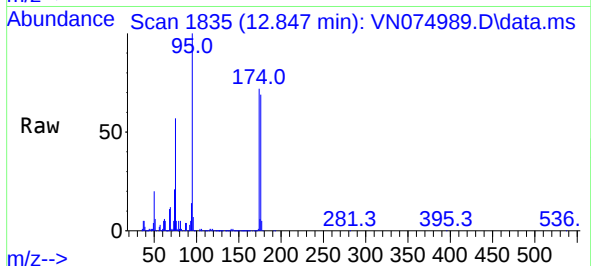




#76  
1,2,3-Trichloropropane  
Concen: 22.632 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. -0.147 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

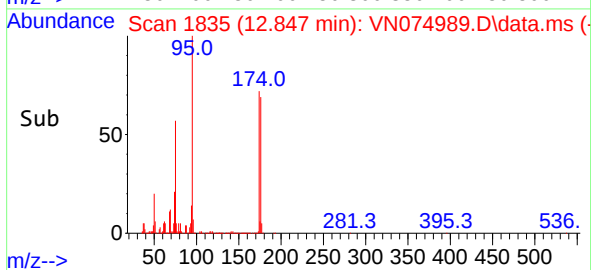
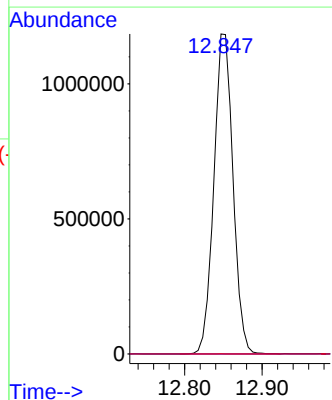
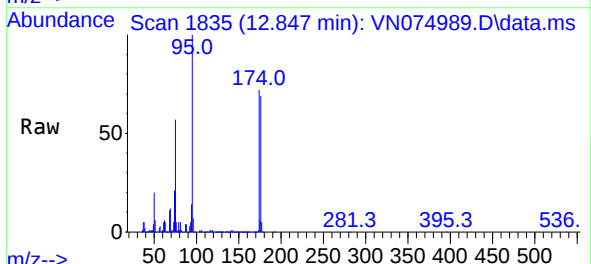
Instrument :  
MSVOA\_N  
ClientSampleId :

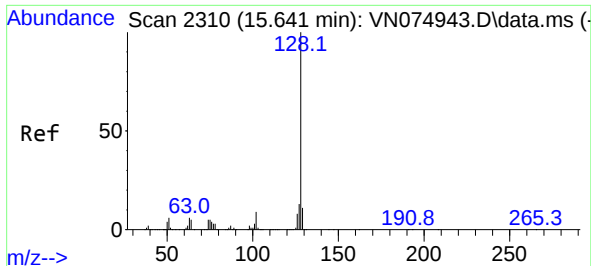
Tgt Ion: 75 Resp: 2030658  
Ion Ratio Lower Upper  
75 100  
77 1.1 81.0 243.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.564 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. 0.112 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

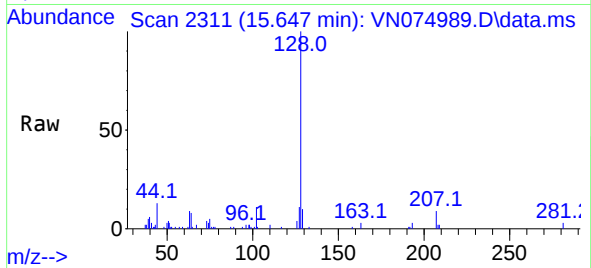
Tgt Ion: 75 Resp: 2030658  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.2 118.8#  
89 0.0 37.9 56.9#





#95  
Naphthalene  
Concen: 0.205 ug/l  
RT: 15.647 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN074989.D  
Acq: 24 Oct 2022 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 41141

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 14.9  | 10.4  | 15.6  |
| 129 | 12.7  | 8.6   | 12.8  |

