

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091222\  
 Data File : VN074404.D  
 Acq On : 12 Sep 2022 11:09  
 Operator : JC\MD  
 Sample : VN0912MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0912MBL01

Quant Time: Sep 13 05:53:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090922W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 10 06:10:29 2022  
 Response via : Initial Calibration

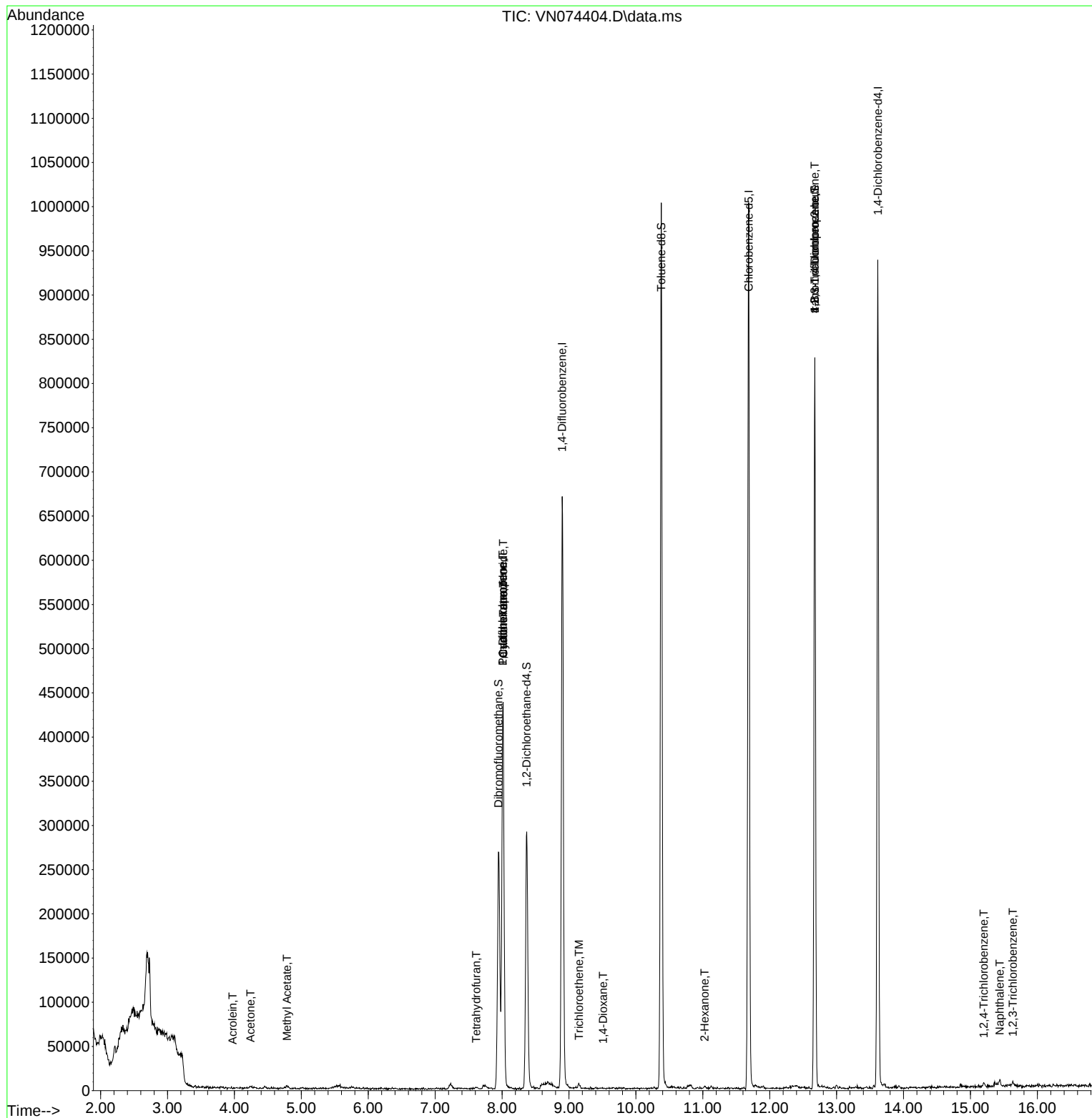
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.010          | 168  | 310393     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.898          | 114  | 545448     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686         | 117  | 518085     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.615         | 152  | 223393     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369          | 65   | 232804     | 43.351    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 86.700%   |        |          |
| 35) Dibromofluoromethane      | 7.945          | 113  | 185558     | 50.392    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 100.780%  |        |          |
| 50) Toluene-d8                | 10.380         | 98   | 636067     | 44.331    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 88.660%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.674         | 95   | 245207     | 47.072    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 94.140%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.269          | 50   | 1857       | Below Cal |        | 92       |
| 6) Chloroethane               | 3.181          | 64   | 4217       | Below Cal | #      | 67       |
| 13) Acrolein                  | 3.975          | 56   | 610        | 0.654     | ug/l # | 15       |
| 16) Acetone                   | 4.240          | 43   | 2192       | 0.756     | ug/l # | 66       |
| 18) Methyl Acetate            | 4.787          | 43   | 6683       | 0.782     | ug/l   | 98       |
| 20) Methylene Chloride        | 5.004          | 84   | 241        | Below Cal | #      | 48       |
| 28) Bromochloromethane        | 7.563          | 49   | 71         | Below Cal | #      | 20       |
| 29) Tetrahydrofuran           | 7.616          | 42   | 1515       | 0.471     | ug/l # | 48       |
| 31) Cyclohexane               | 8.016          | 56   | 10927      | 1.279     | ug/l # | 60       |
| 36) 1,1-Dichloropropene       | 8.010          | 75   | 28338      | 4.671     | ug/l # | 54       |
| 38) Carbon Tetrachloride      | 8.016          | 117  | 34056      | 5.438     | ug/l # | 15       |
| 44) Trichloroethene           | 9.151          | 130  | 1745       | 0.419     | ug/l   | 77       |
| 49) 1,4-Dioxane               | 9.510          | 88   | 74         | 0.554     | ug/l # | 1        |
| 59) 2-Hexanone                | 11.027         | 43   | 2771       | 0.382     | ug/l   | 75       |
| 74) N-amyl acetate            | 12.333         | 43   | 1047       | Below Cal | #      | 63       |
| 76) 1,2,3-Trichloropropane    | 12.674         | 75   | 151500     | 25.942    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.674         | 75   | 151500     | 57.825    | ug/l # | 9        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.545         | 75   | 59         | Below Cal | #      | 1        |
| 93) 1,2,4-Trichlorobenzene    | 15.198         | 180  | 1206       | 0.270     | ug/l # | 59       |
| 95) Naphthalene               | 15.439         | 128  | 6860       | 0.393     | ug/l # | 87       |
| 96) 1,2,3-Trichlorobenzene    | 15.633         | 180  | 1826       | 0.395     | ug/l # | 72       |
| -----                         |                |      |            |           |        |          |

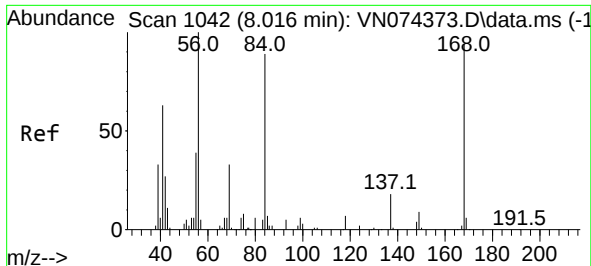
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091222\  
Data File : VN074404.D  
Acq On : 12 Sep 2022 11:09  
Operator : JC\MD  
Sample : VN0912MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

Quant Time: Sep 13 05:53:15 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090922W.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 10 06:10:29 2022  
Response via : Initial Calibration

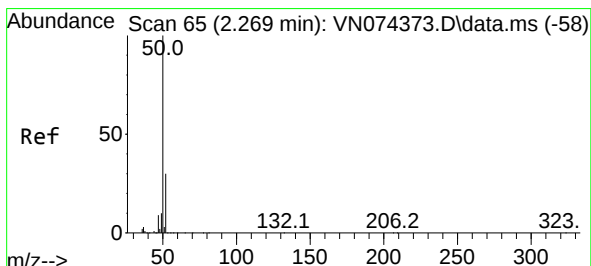
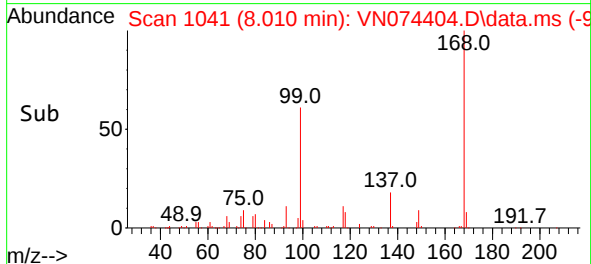
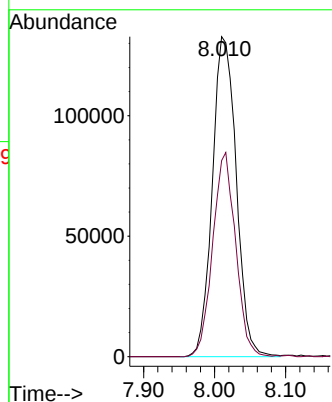
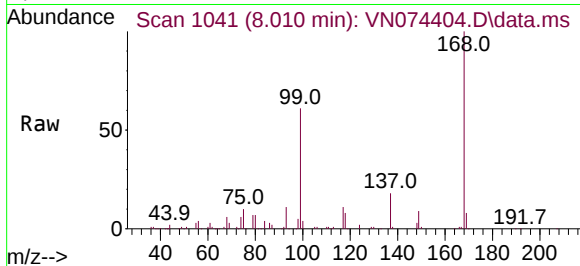




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.010 min Scan# 1042  
Delta R.T. -0.006 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

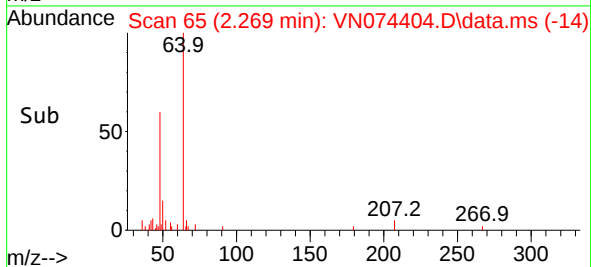
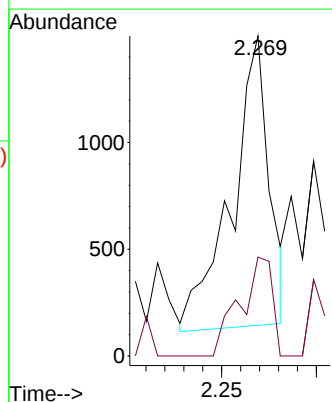
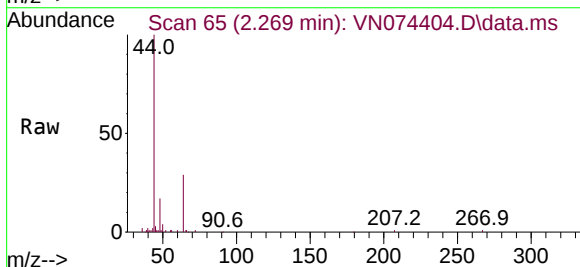
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

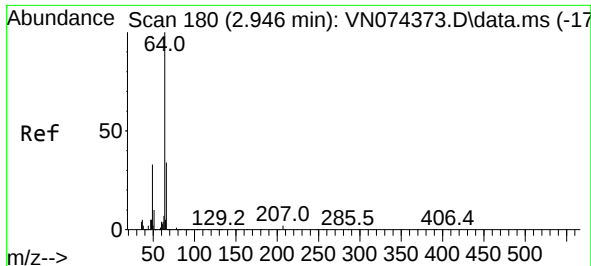
Tgt Ion:168 Resp: 310393  
Ion Ratio Lower Upper  
168 100  
99 61.3 52.8 79.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.269 min Scan# 65  
Delta R.T. 0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Tgt Ion: 50 Resp: 1857  
Ion Ratio Lower Upper  
50 100  
52 34.4 24.1 36.1

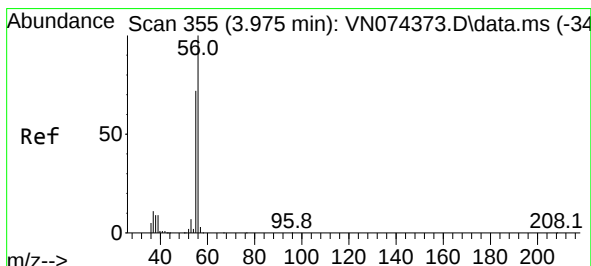
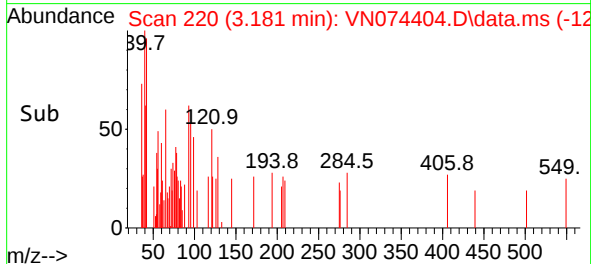
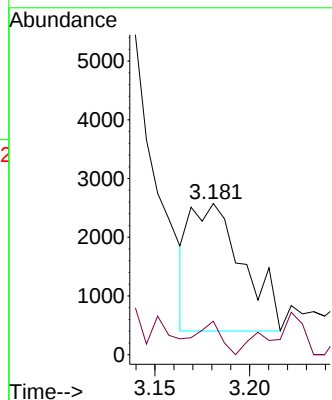
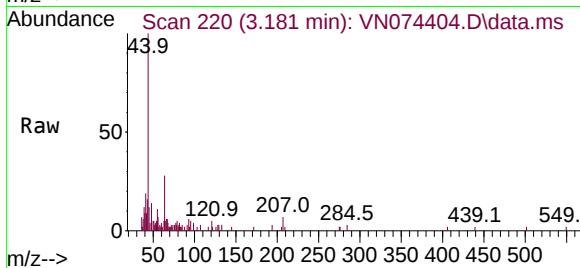




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.181 min Scan# 21  
Delta R.T. 0.235 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

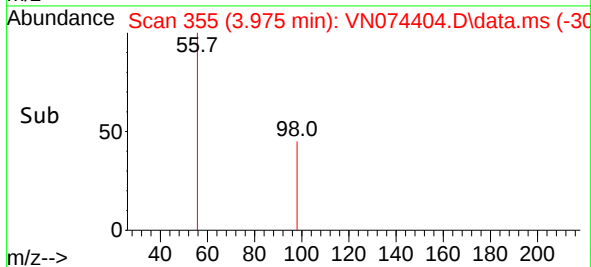
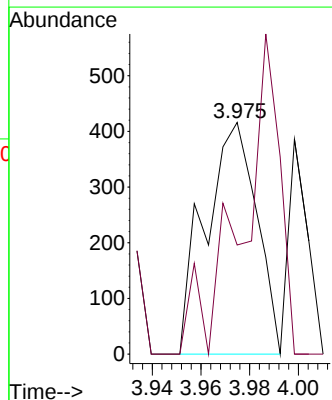
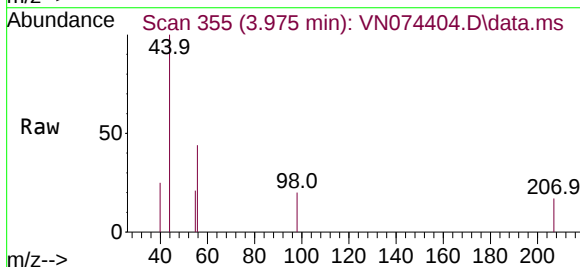
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

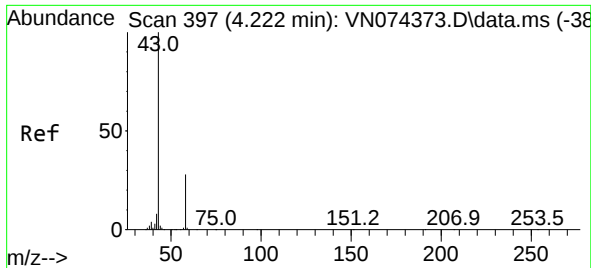
Tgt Ion: 64 Resp: 4217  
Ion Ratio Lower Upper  
64 100  
66 14.2 26.5 39.7#



#13  
Acrolein  
Concen: 0.654 ug/l  
RT: 3.975 min Scan# 355  
Delta R.T. -0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Tgt Ion: 56 Resp: 610  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.2 84.4#

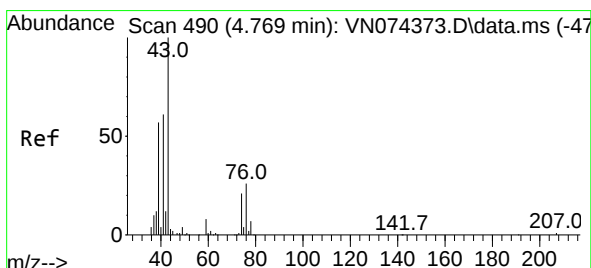
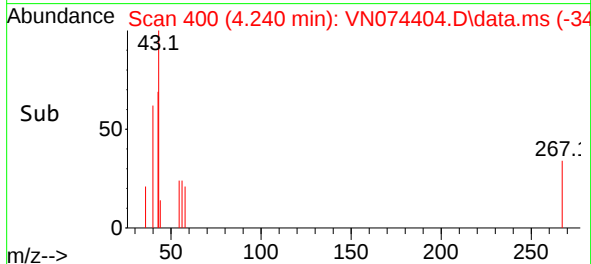
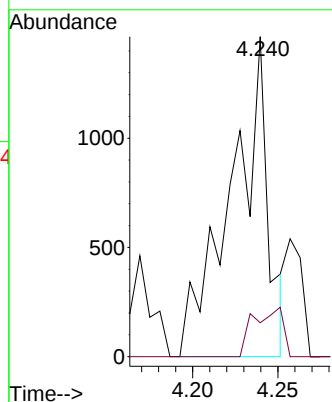
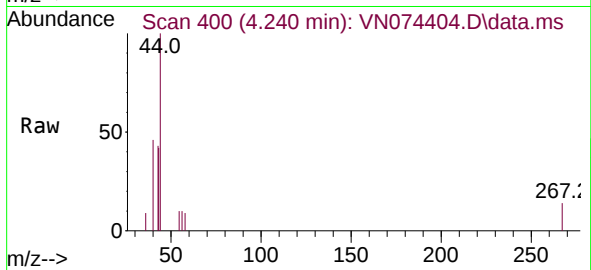




#16  
Acetone  
Concen: 0.756 ug/l  
RT: 4.240 min Scan# 400  
Delta R.T. 0.018 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

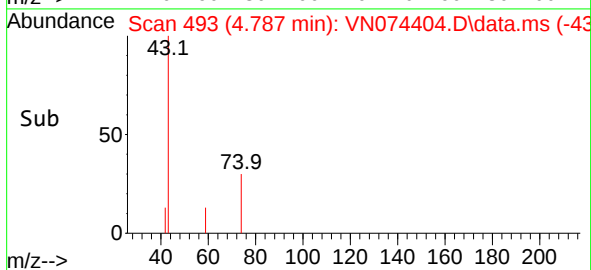
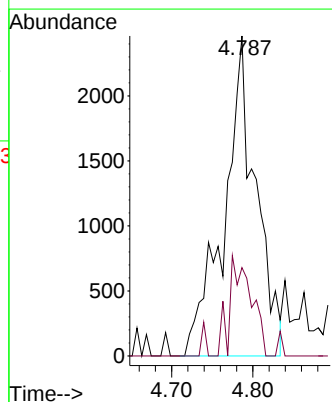
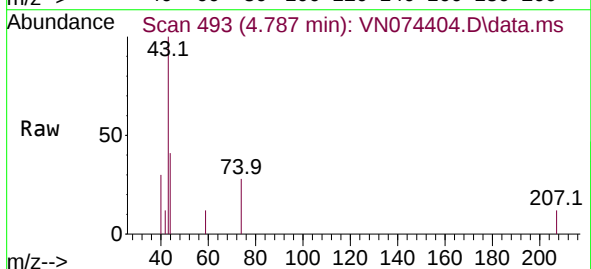
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

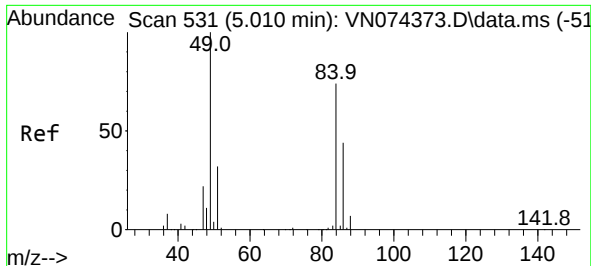
Tgt Ion: 43 Resp: 2192  
Ion Ratio Lower Upper  
43 100  
58 10.6 22.7 34.1#



#18  
Methyl Acetate  
Concen: 0.782 ug/l  
RT: 4.787 min Scan# 493  
Delta R.T. 0.018 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Tgt Ion: 43 Resp: 6683  
Ion Ratio Lower Upper  
43 100  
74 21.7 16.7 25.1

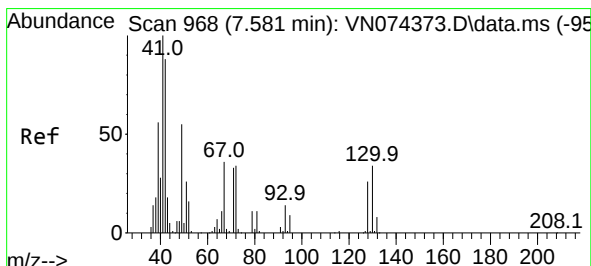
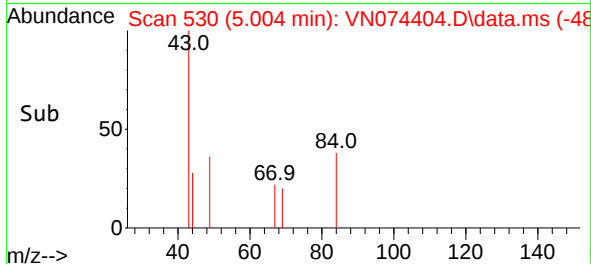
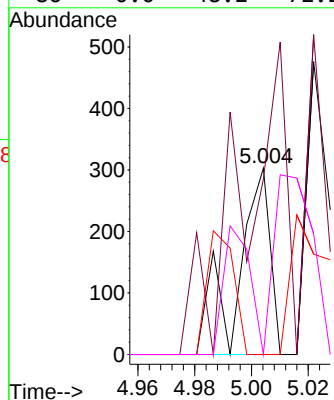
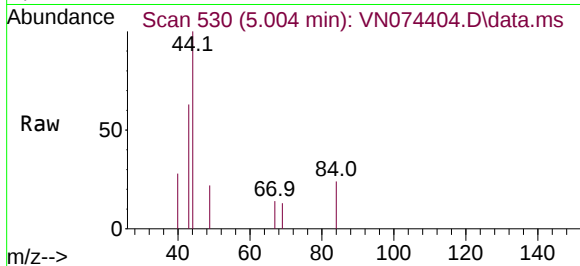




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.004 min Scan# 511  
Delta R.T. -0.006 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

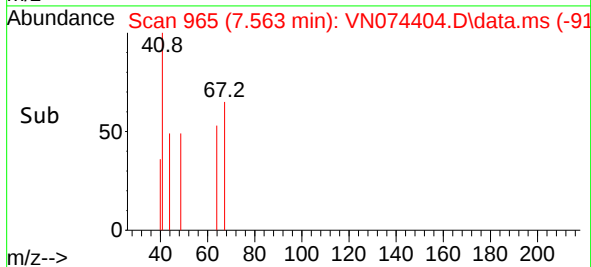
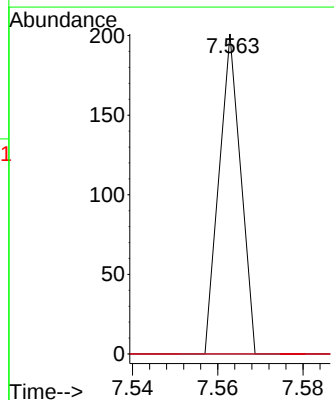
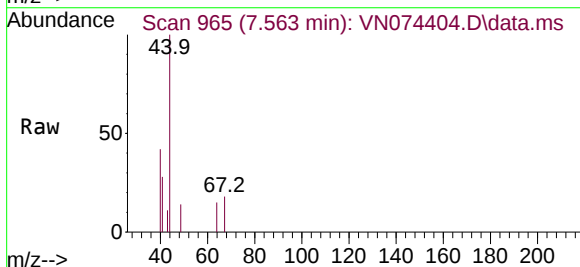
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

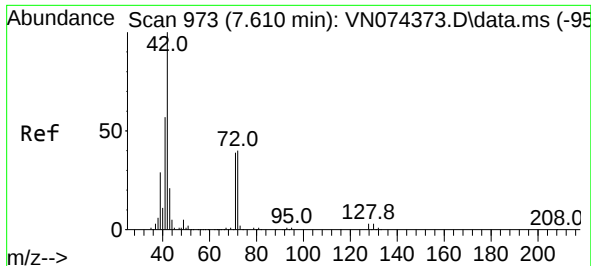
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 241    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 94.1  | 108.2 | 162.4# |
| 51       | 0.0   | 34.3  | 51.5#  |
| 86       | 0.0   | 48.2  | 72.2#  |



#28  
Bromochloromethane  
Concen: Below Cal  
RT: 7.563 min Scan# 965  
Delta R.T. -0.018 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 49    | Resp: | 71    |
| Ion      | Ratio | Lower | Upper |
| 49       | 100   |       |       |
| 129      | 0.0   | 0.0   | 2.2   |
| 130      | 0.0   | 50.0  | 75.0# |

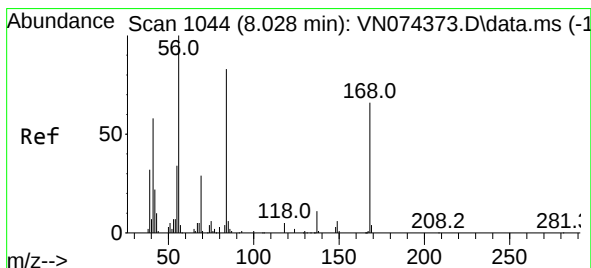
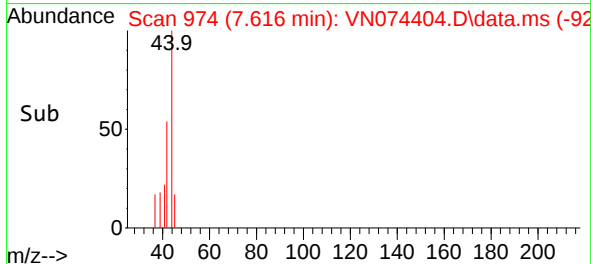
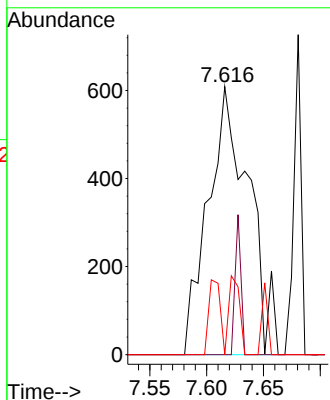
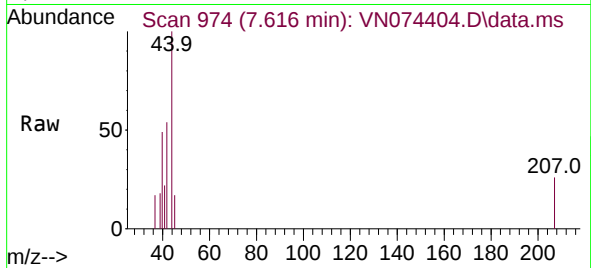




#29  
Tetrahydrofuran  
Concen: 0.471 ug/l  
RT: 7.616 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

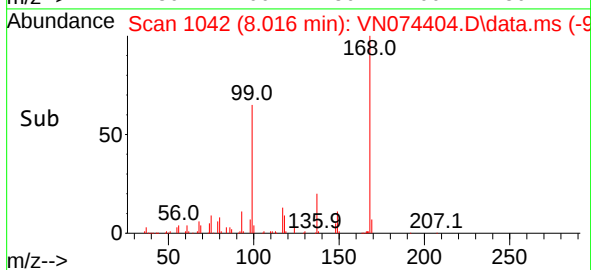
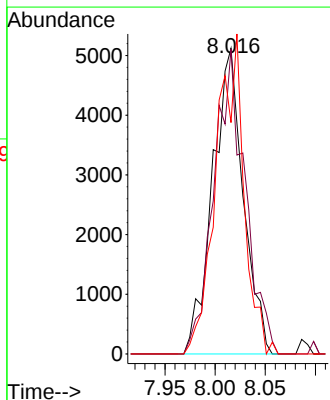
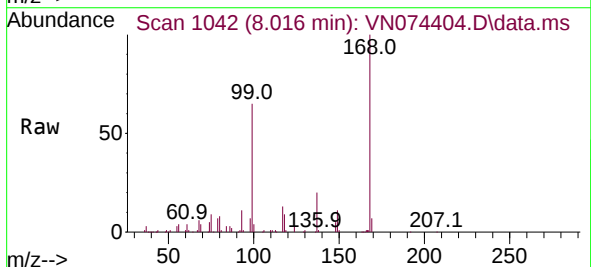
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

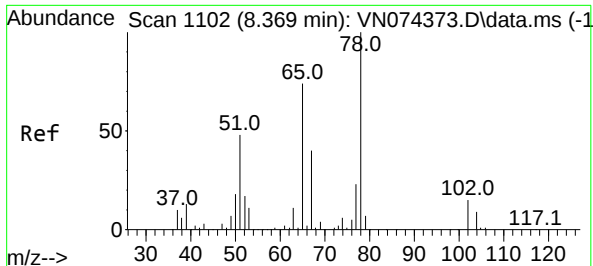
Tgt Ion: 42 Resp: 1515  
Ion Ratio Lower Upper  
42 100  
72 7.4 32.7 49.1#  
71 7.7 31.0 46.6#



#31  
Cyclohexane  
Concen: 1.279 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.012 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Tgt Ion: 56 Resp: 10927  
Ion Ratio Lower Upper  
56 100  
69 99.7 23.0 34.4#  
84 75.7 66.3 99.5





#33

1,2-Dichloroethane-d4

Concen: 43.351 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN074404.D

Acq: 12 Sep 2022 11:09

Instrument :

MSVOA\_N

ClientSampleId :

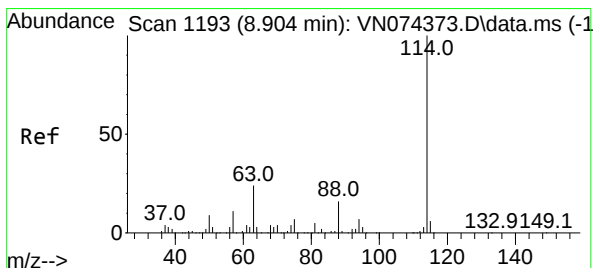
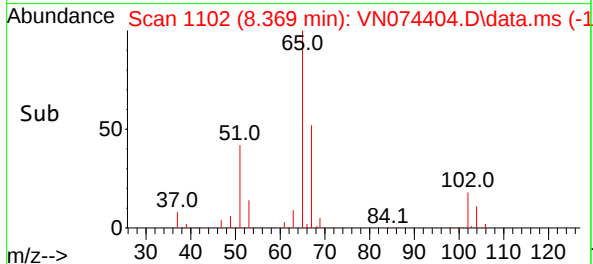
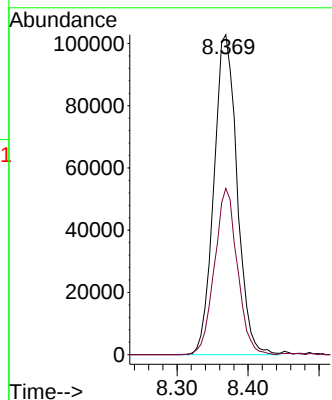
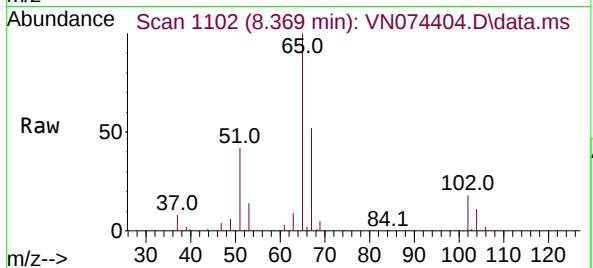
VN0912MBL01

Tgt Ion: 65 Resp: 232804

Ion Ratio Lower Upper

65 100

67 51.1 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.898 min Scan# 1192

Delta R.T. -0.006 min

Lab File: VN074404.D

Acq: 12 Sep 2022 11:09

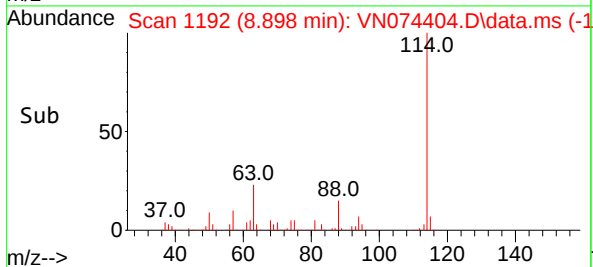
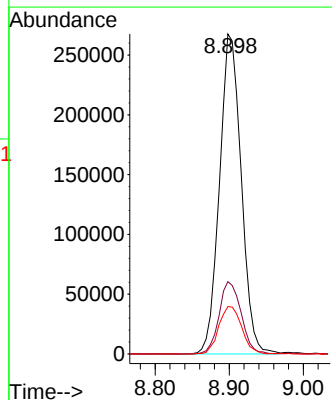
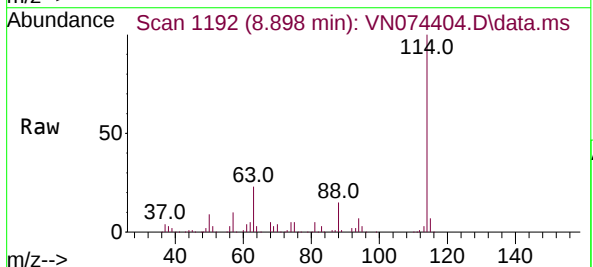
Tgt Ion: 114 Resp: 545448

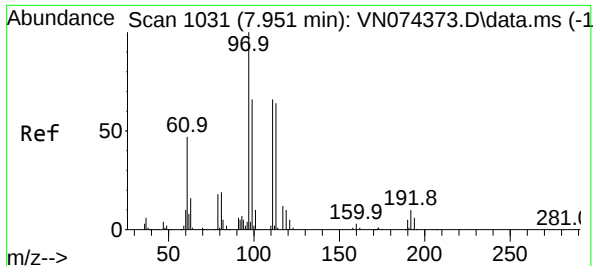
Ion Ratio Lower Upper

114 100

63 22.6 0.0 47.6

88 14.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.392 ug/l

RT: 7.945 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VN074404.D

Acq: 12 Sep 2022 11:09

Instrument :

MSVOA\_N

ClientSampleId :

VN0912MBL01

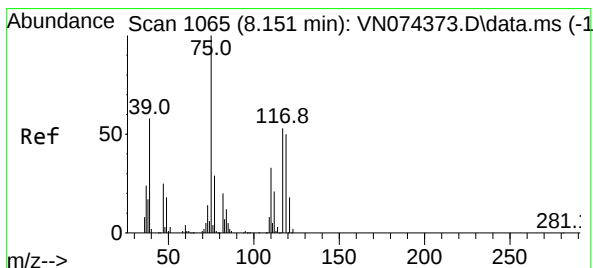
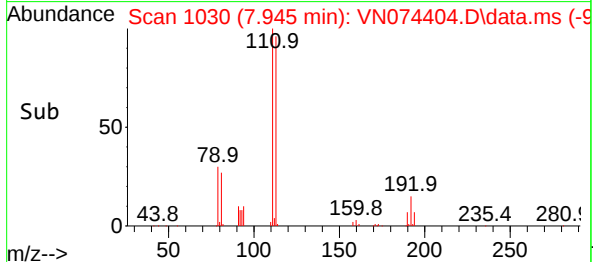
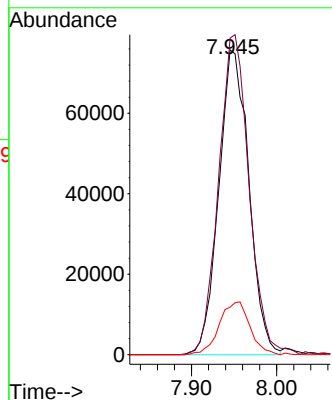
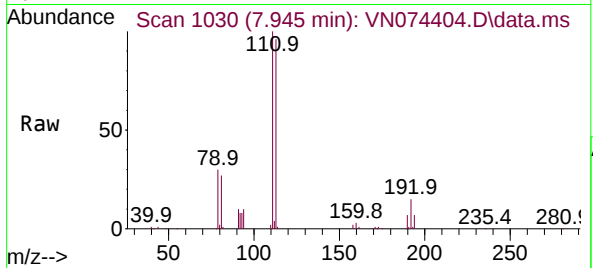
Tgt Ion:113 Resp: 185558

Ion Ratio Lower Upper

113 100

111 106.2 83.0 124.4

192 17.6 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.671 ug/l

RT: 8.010 min Scan# 1041

Delta R.T. -0.141 min

Lab File: VN074404.D

Acq: 12 Sep 2022 11:09

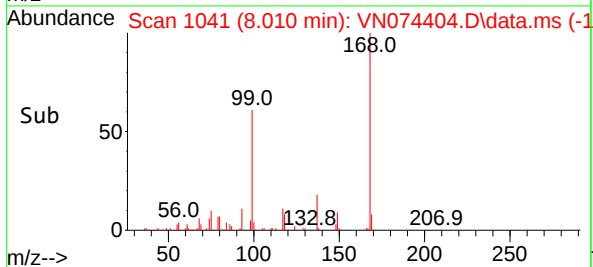
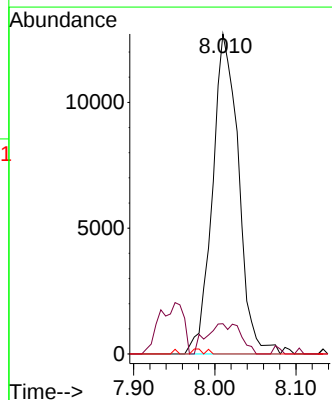
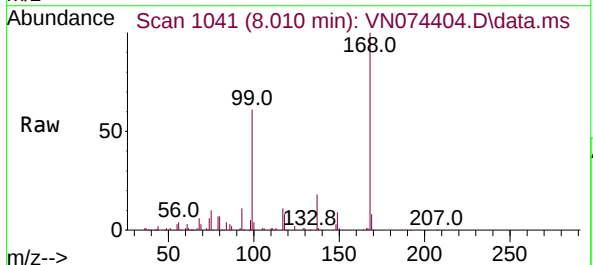
Tgt Ion: 75 Resp: 28338

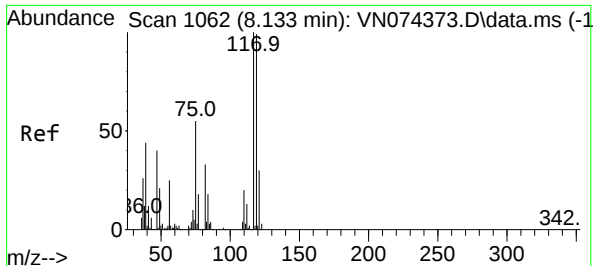
Ion Ratio Lower Upper

75 100

110 12.5 16.4 49.1#

77 0.0 25.4 38.2#

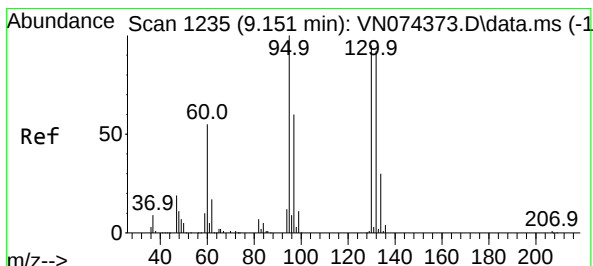
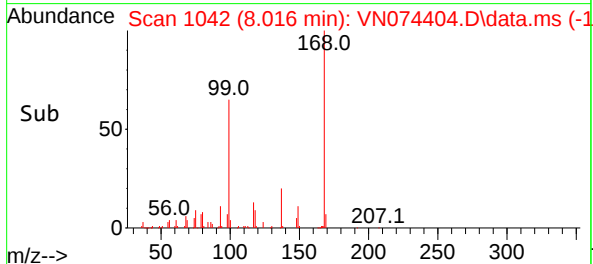
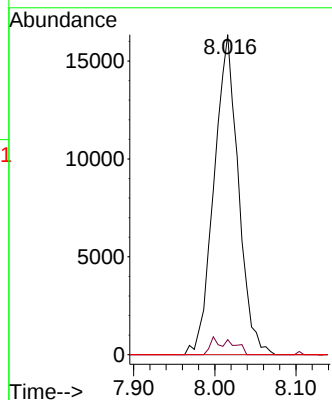
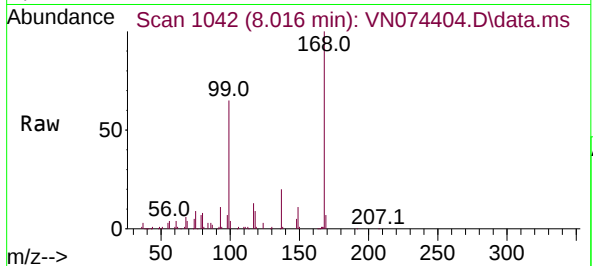




#38  
Carbon Tetrachloride  
Concen: 5.438 ug/l  
RT: 8.016 min Scan# 117  
Delta R.T. -0.118 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

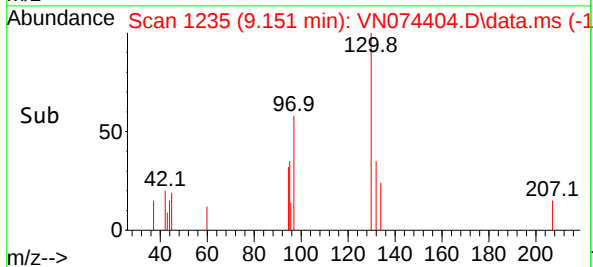
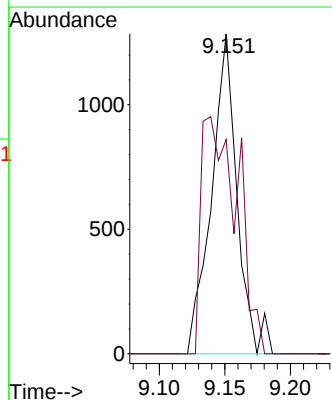
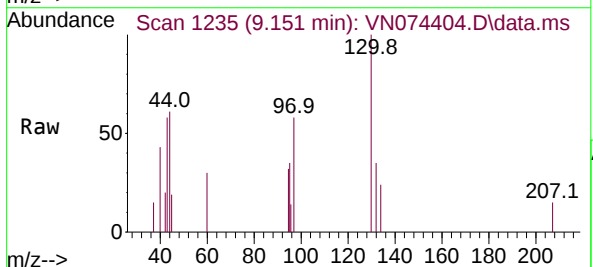
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

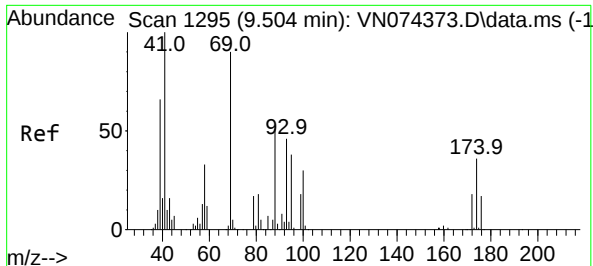
Tgt Ion:117 Resp: 34056  
Ion Ratio Lower Upper  
117 100  
119 4.7 78.8 118.2#  
121 0.0 24.1 36.1#



#44  
Trichloroethene  
Concen: 0.419 ug/l  
RT: 9.151 min Scan# 1235  
Delta R.T. -0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

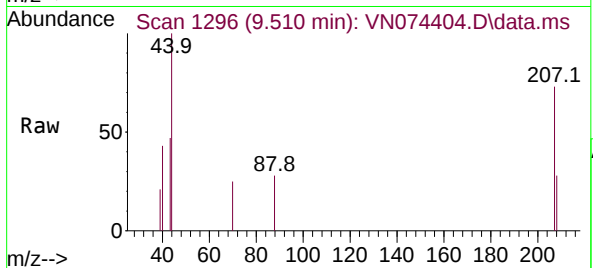
Tgt Ion:130 Resp: 1745  
Ion Ratio Lower Upper  
130 100  
95 81.2 0.0 210.0



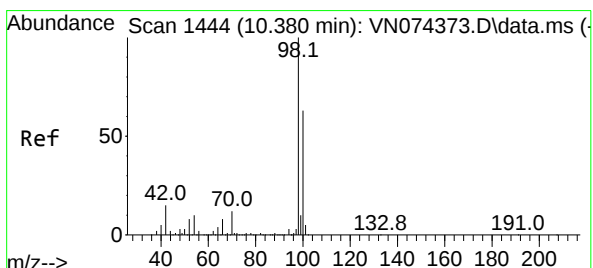
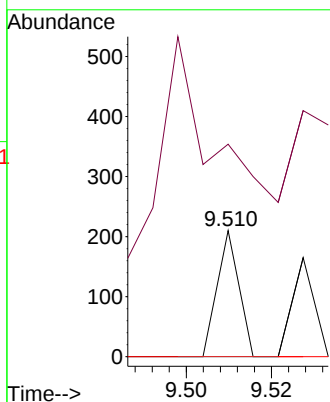
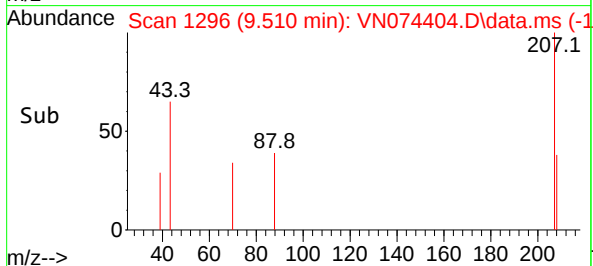


#49  
1,4-Dioxane  
Concen: 0.554 ug/l  
RT: 9.510 min Scan# 1295  
Delta R.T. 0.006 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

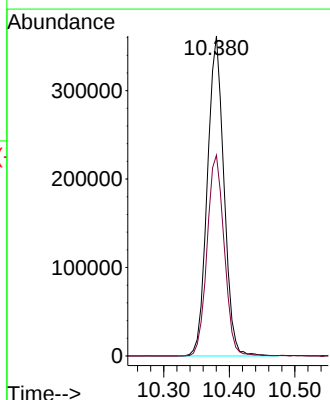
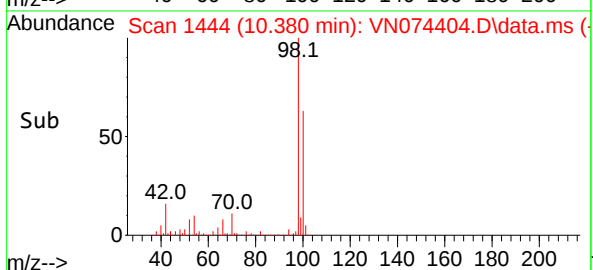
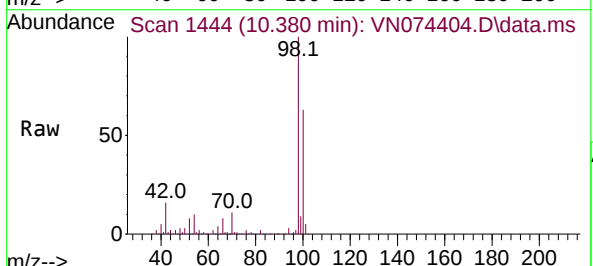


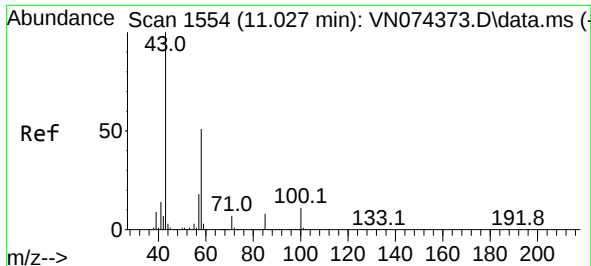
Tgt Ion: 88 Resp: 74  
Ion Ratio Lower Upper  
88 100  
43 959.5 26.9 40.3#  
58 0.0 52.7 79.1#



#50  
Toluene-d8  
Concen: 44.331 ug/l  
RT: 10.380 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Tgt Ion: 98 Resp: 636067  
Ion Ratio Lower Upper  
98 100  
100 64.7 50.6 76.0

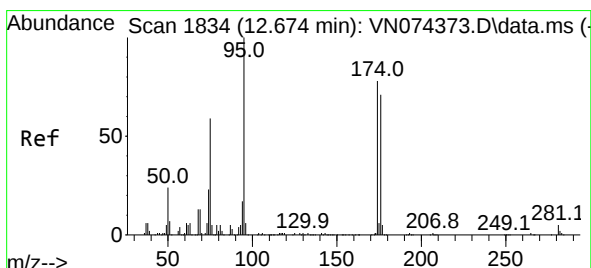
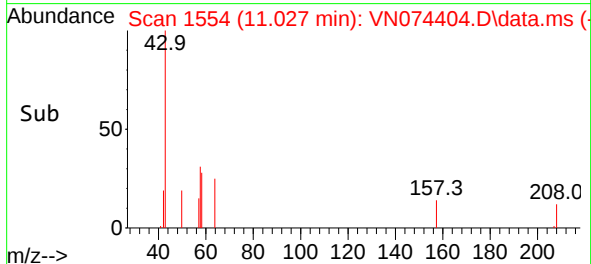
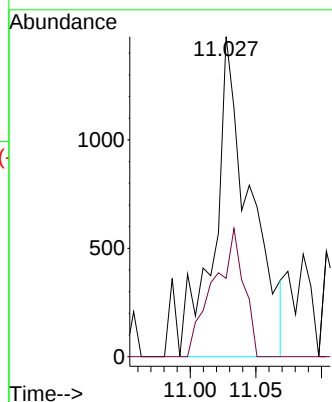
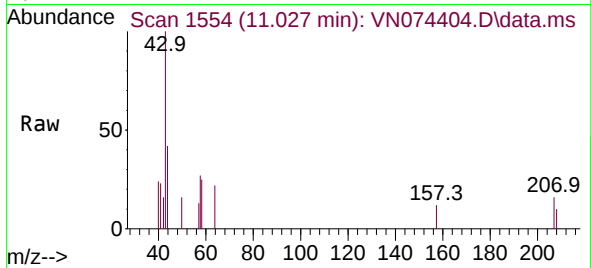




#59  
2-Hexanone  
Concen: 0.382 ug/l  
RT: 11.027 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

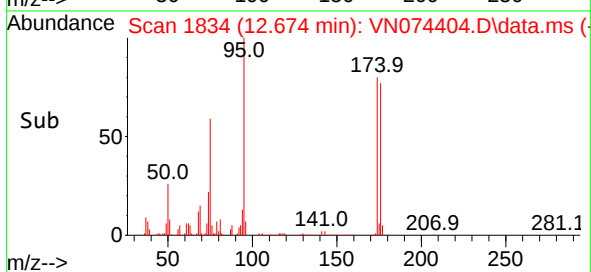
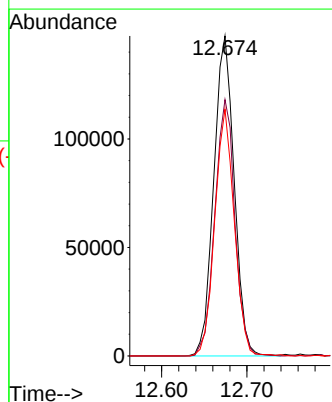
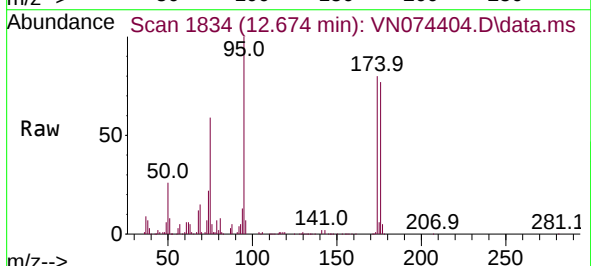
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

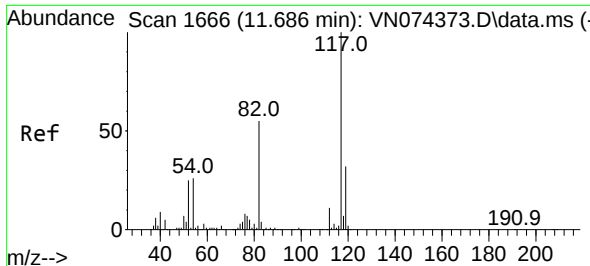
Tgt Ion: 43 Resp: 2771  
Ion Ratio Lower Upper  
43 100  
58 34.0 25.8 77.3



#62  
4-Bromofluorobenzene  
Concen: 47.072 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. -0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Tgt Ion: 95 Resp: 245207  
Ion Ratio Lower Upper  
95 100  
174 78.7 0.0 150.6  
176 73.9 0.0 143.4

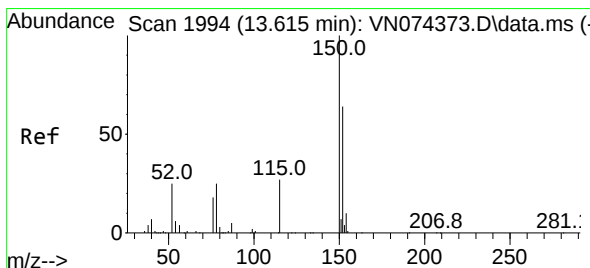
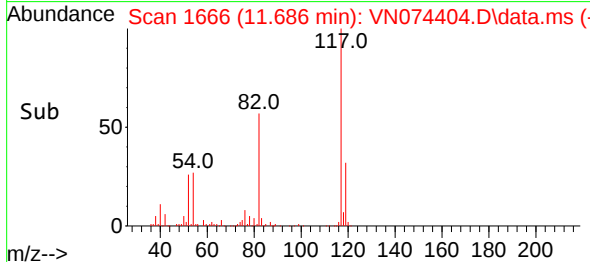
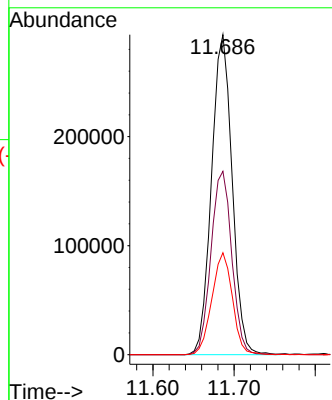
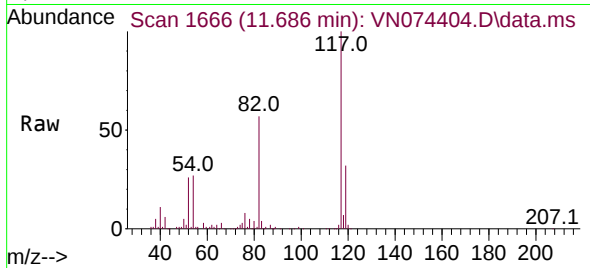




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1170  
Delta R.T. -0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

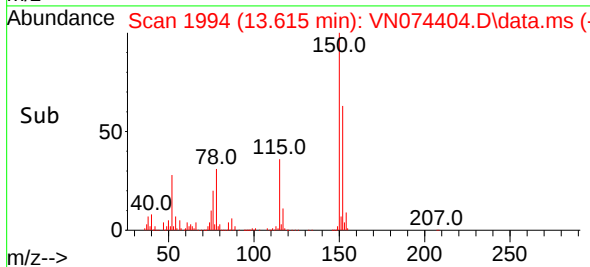
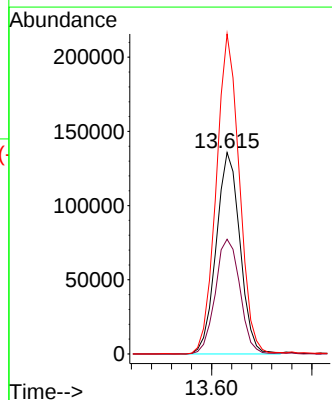
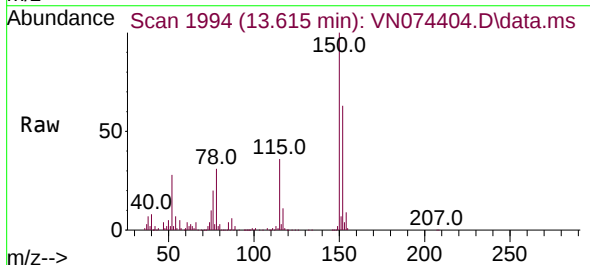
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

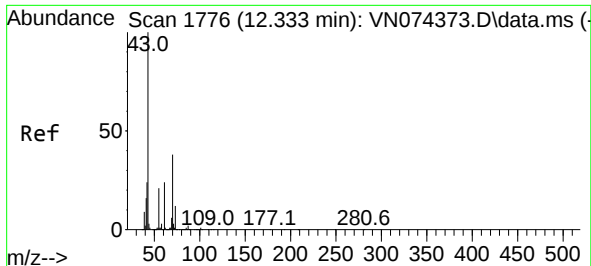
Tgt Ion:117 Resp: 518085  
Ion Ratio Lower Upper  
117 100  
82 57.3 44.3 66.5  
119 31.8 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.615 min Scan# 1994  
Delta R.T. 0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Tgt Ion:152 Resp: 223393  
Ion Ratio Lower Upper  
152 100  
115 58.8 32.0 96.0  
150 154.3 0.0 359.6

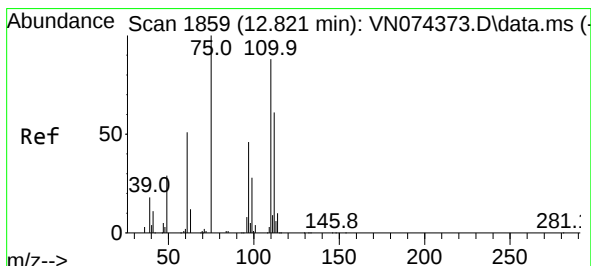
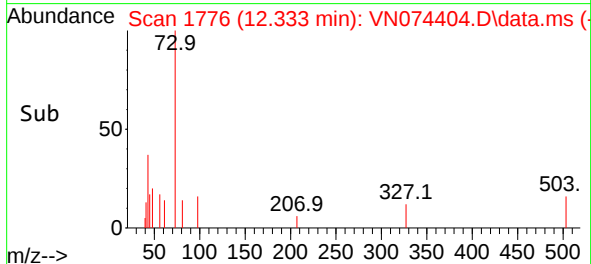
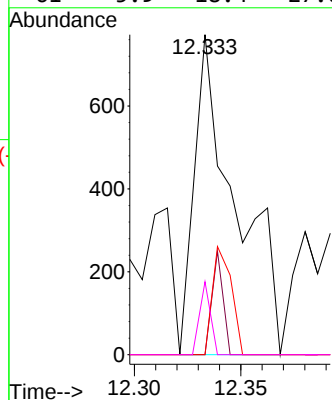
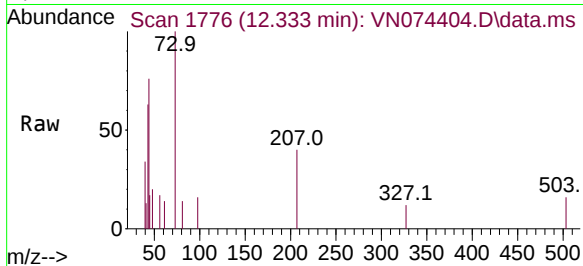




#74  
N-amy1 acetate  
Concen: Below Cal  
RT: 12.333 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

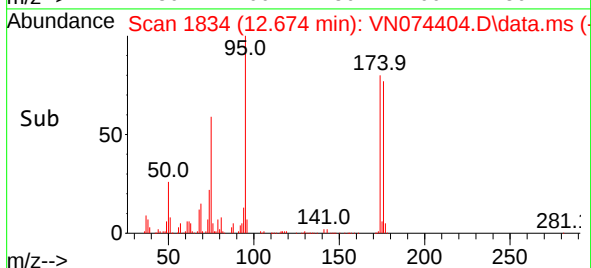
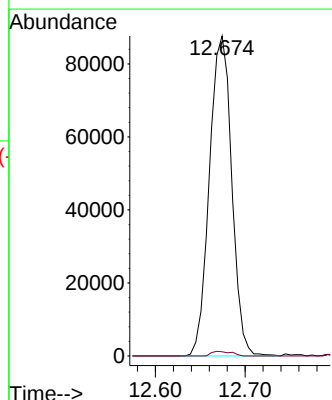
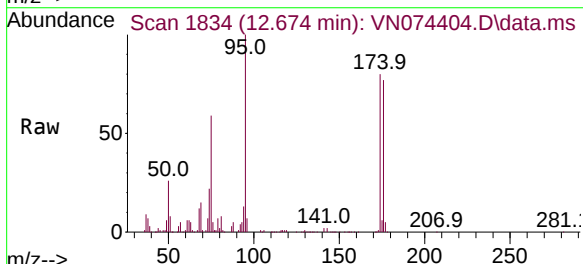
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

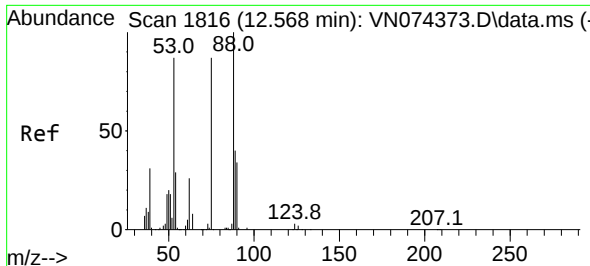
Tgt Ion: 43 Resp: 1047  
Ion Ratio Lower Upper  
43 100  
70 8.4 31.4 47.0#  
55 15.3 17.0 25.6#  
61 5.9 18.4 27.6#



#76  
1,2,3-Trichloropropane  
Concen: 25.942 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. -0.147 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Tgt Ion: 75 Resp: 151500  
Ion Ratio Lower Upper  
75 100  
77 1.3 78.9 236.7#

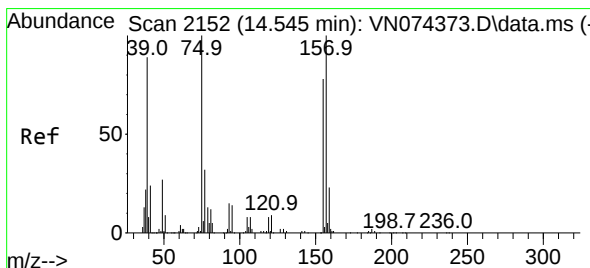
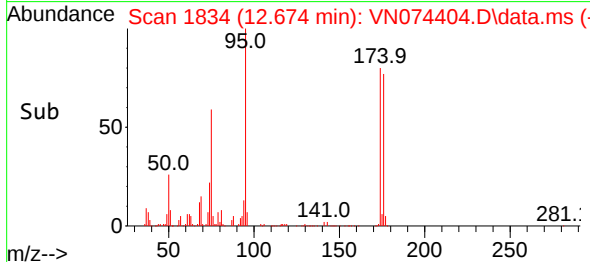
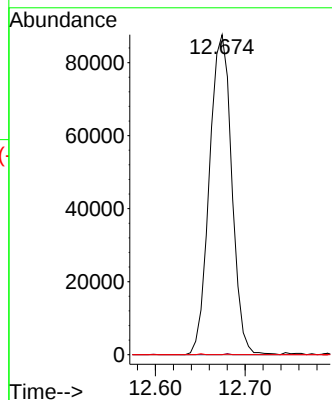
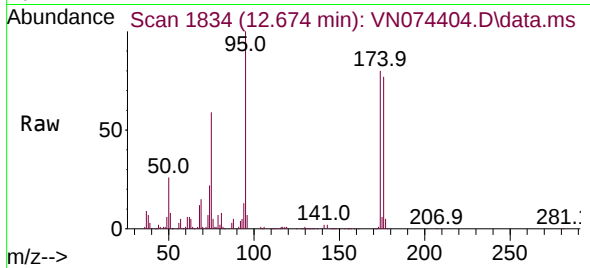




#81  
trans-1,4-Dichloro-2-butene  
Concen: 57.825 ug/l  
RT: 12.674 min Scan# 1816  
Delta R.T. 0.106 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

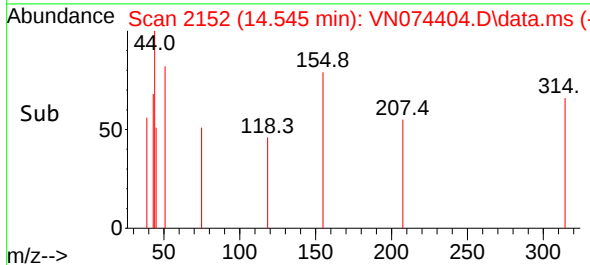
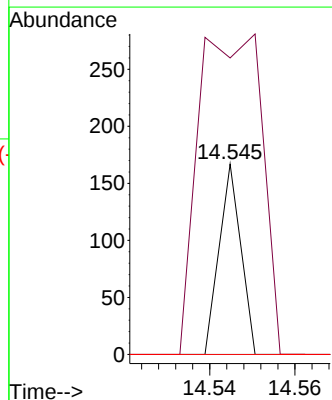
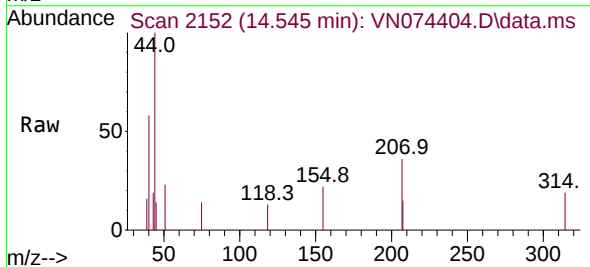
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

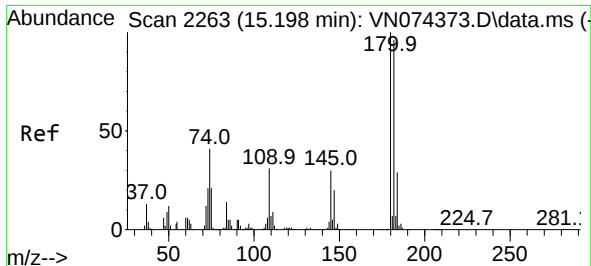
Tgt Ion: 75 Resp: 151500  
Ion Ratio Lower Upper  
75 100  
53 0.1 82.2 123.2#  
89 0.0 37.7 56.5#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: Below Cal  
RT: 14.545 min Scan# 2152  
Delta R.T. -0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

Tgt Ion: 75 Resp: 59  
Ion Ratio Lower Upper  
75 100  
155 489.8 36.6 109.9#  
157 0.0 46.2 138.5#

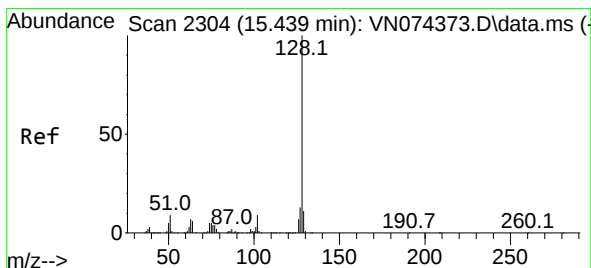
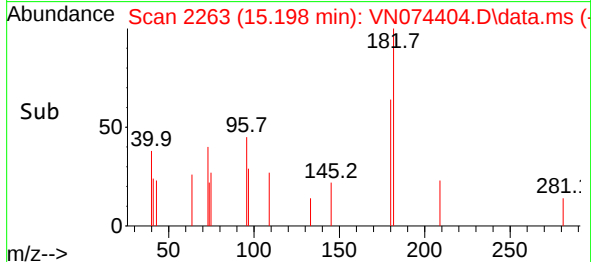
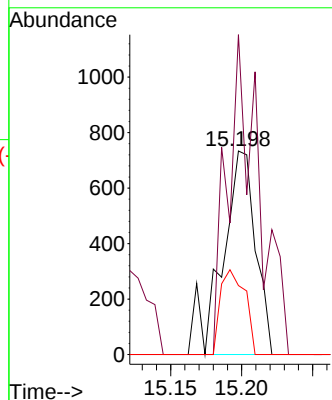
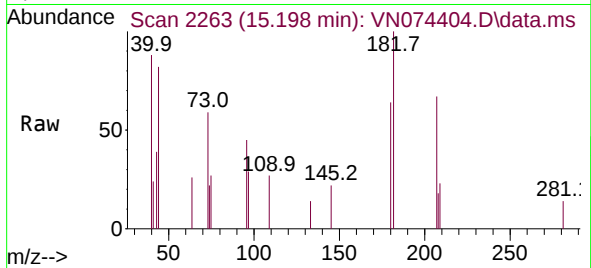




#93  
1,2,4-Trichlorobenzene  
Concen: 0.270 ug/l  
RT: 15.198 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

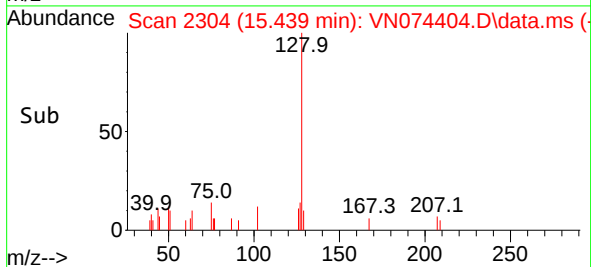
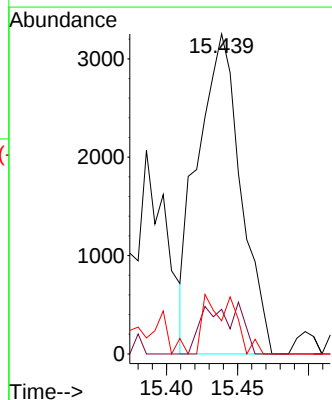
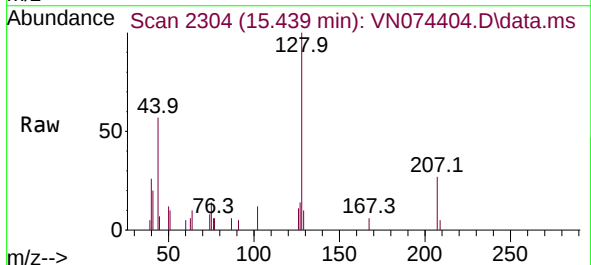
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0912MBL01

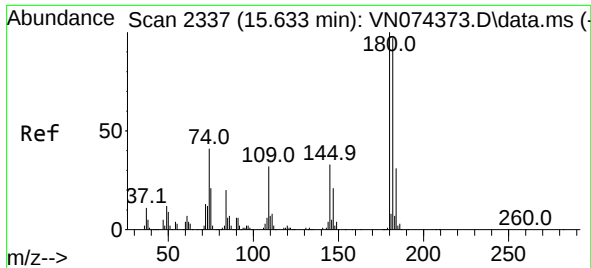
Tgt Ion:180 Resp: 1206  
Ion Ratio Lower Upper  
180 100  
182 146.4 47.4 142.2#  
145 30.4 16.1 48.2



#95  
Naphthalene  
Concen: 0.393 ug/l  
RT: 15.439 min Scan# 2304  
Delta R.T. -0.000 min  
Lab File: VN074404.D  
Acq: 12 Sep 2022 11:09

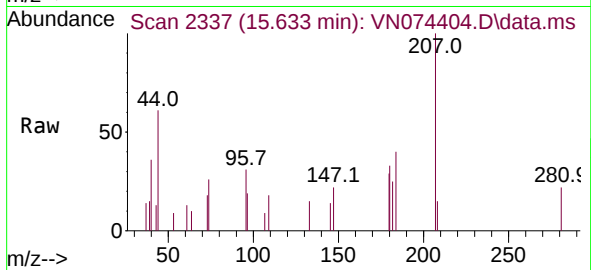
Tgt Ion:128 Resp: 6860  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.6 16.0  
129 0.0 8.8 13.2#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.395 ug/l  
 RT: 15.633 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN074404.D  
 Acq: 12 Sep 2022 11:09

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0912MBL01



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 1826  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 70.5  | 47.6  | 142.8 |
| 145       | 14.6  | 17.3  | 52.0# |

