

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN083122\  
 Data File : VN074208.D  
 Acq On : 31 Aug 2022 12:42  
 Operator : JC\MD  
 Sample : N4445-01 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MTL-1

Quant Time: Sep 01 00:23:02 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 31 07:02:40 2022  
 Response via : Initial Calibration

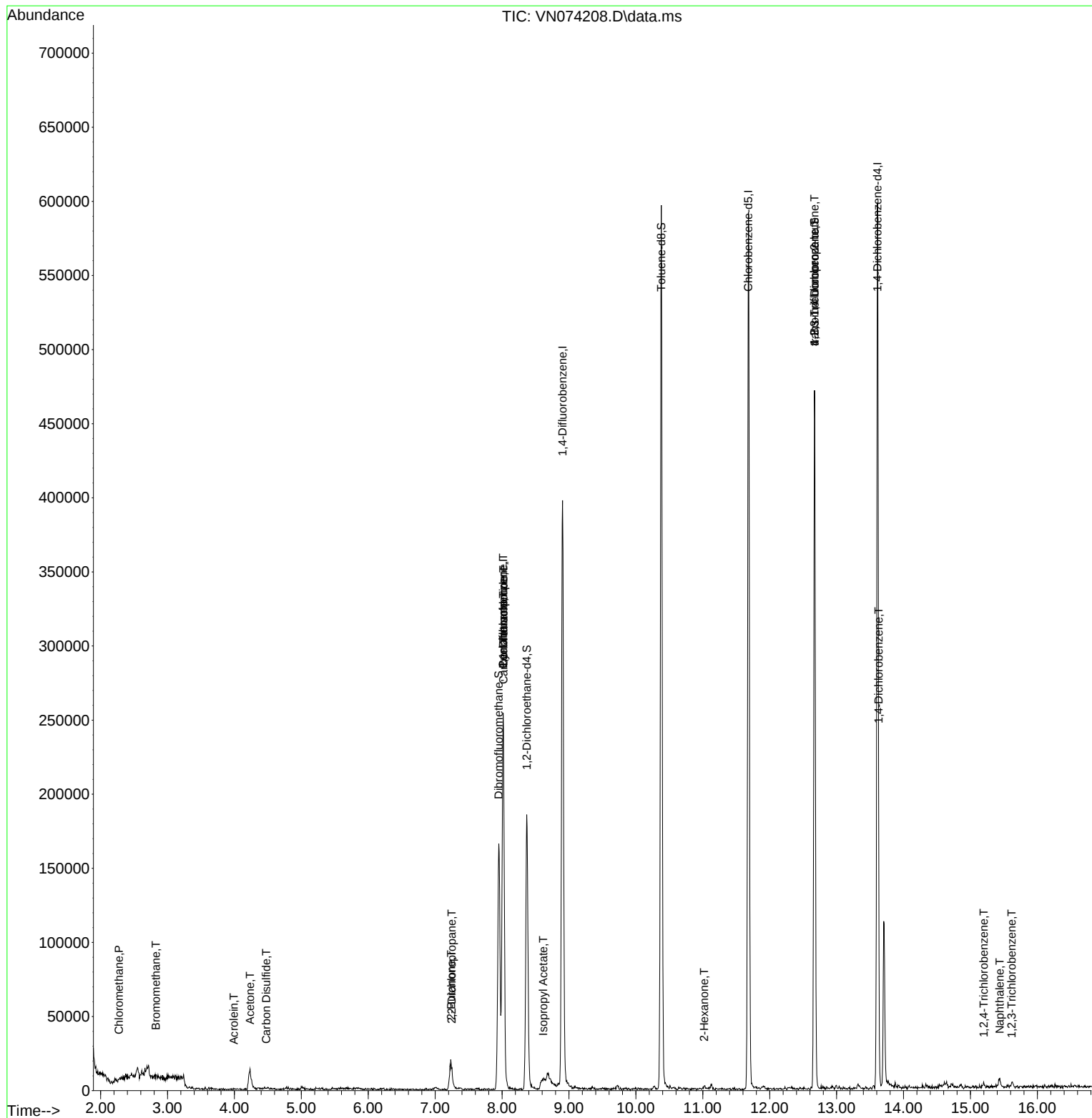
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.016  | 168   | 179772   | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.904  | 114   | 333285   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.680 | 117   | 318516   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.610 | 152   | 144871   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.369  | 65    | 145725   | 52.255    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 104.520% |          |
| 35) Dibromofluoromethane      | 7.951  | 113   | 118459   | 54.621    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 109.240% |          |
| 50) Toluene-d8                | 10.380 | 98    | 382111   | 44.739    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 89.480%  |          |
| 62) 4-Bromofluorobenzene      | 12.669 | 95    | 142159   | 54.733    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 109.460% |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.275  | 50    | 789      | 0.301     | ug/l       | # 43     |
| 5) Bromomethane               | 2.828  | 94    | 1156     | 0.812     | ug/l       | 91       |
| 6) Chloroethane               | 2.951  | 64    | 581      | Below Cal | #          | 42       |
| 11) Tert butyl alcohol        | 5.275  | 59    | 498      | Below Cal | #          | 72       |
| 13) Acrolein                  | 3.993  | 56    | 217      | 0.352     | ug/l       | # 46     |
| 16) Acetone                   | 4.234  | 43    | 25132    | 13.487    | ug/l       | 90       |
| 17) Carbon Disulfide          | 4.475  | 76    | 1363     | 0.227     | ug/l       | # 75     |
| 18) Methyl Acetate            | 4.781  | 43    | 2422     | Below Cal | #          | 48       |
| 20) Methylene Chloride        | 5.016  | 84    | 369      | Below Cal | #          | 44       |
| 25) 2-Butanone                | 7.239  | 43    | 912      | 0.306     | ug/l       | # 45     |
| 26) 2,2-Dichloropropane       | 7.245  | 77    | 900      | 0.562     | ug/l       | # 75     |
| 31) Cyclohexane               | 8.016  | 56    | 6096     | 1.323     | ug/l       | # 46     |
| 36) 1,1-Dichloropropene       | 8.016  | 75    | 18541    | 5.269     | ug/l       | # 48     |
| 38) Carbon Tetrachloride      | 8.022  | 117   | 19902    | 6.227     | ug/l       | # 15     |
| 43) Isopropyl Acetate         | 8.616  | 43    | 9132     | 1.154     | ug/l       | # 53     |
| 59) 2-Hexanone                | 11.022 | 43    | 1374     | 0.315     | ug/l       | # 58     |
| 76) 1,2,3-Trichloropropane    | 12.669 | 75    | 82343    | 22.684    | ug/l       | # 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.669 | 75    | 82343    | 58.997    | ug/l       | # 11     |
| 88) 1,4-Dichlorobenzene       | 13.627 | 146   | 1413     | 0.264     | ug/l       | # 26     |
| 93) 1,2,4-Trichlorobenzene    | 15.198 | 180   | 622      | 0.233     | ug/l       | # 60     |
| 95) Naphthalene               | 15.439 | 128   | 5478     | 1.638     | ug/l       | # 92     |
| 96) 1,2,3-Trichlorobenzene    | 15.615 | 180   | 1294     | 0.468     | ug/l       | # 49     |

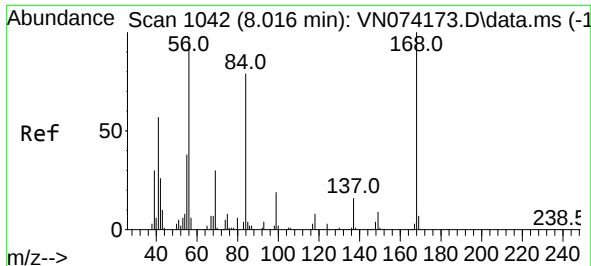
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :  
MTL-1

Quant Time: Sep 01 00:23:02 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 31 07:02:40 2022  
Response via : Initial Calibration

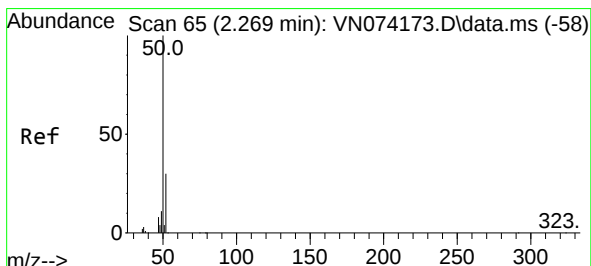
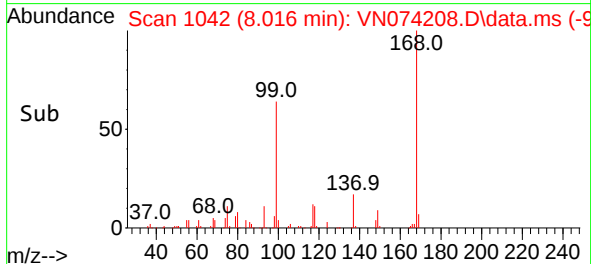
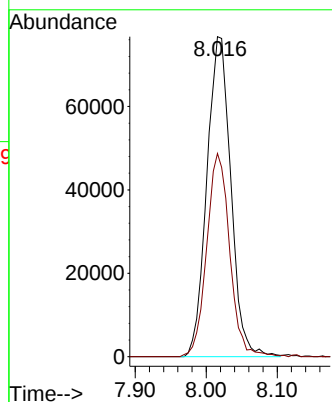
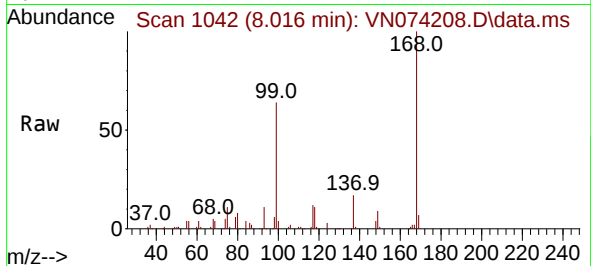




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

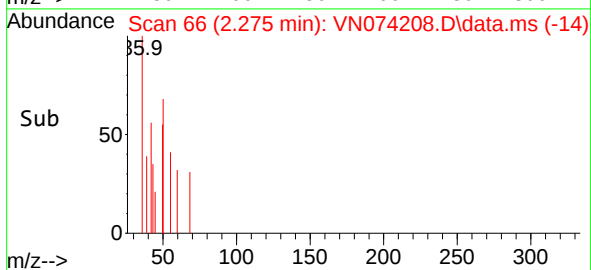
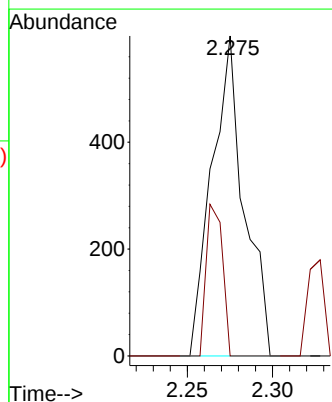
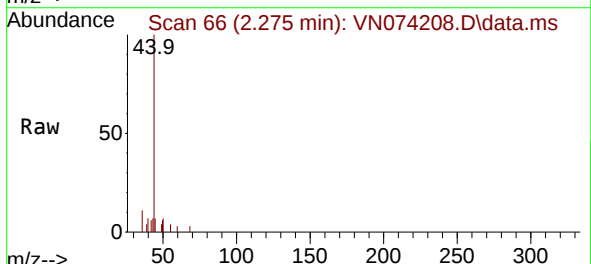
Instrument :  
MSVOA\_N  
ClientSampleId :  
MTL-1

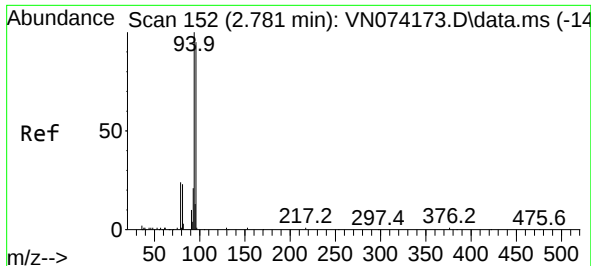
Tgt Ion:168 Resp: 179772  
Ion Ratio Lower Upper  
168 100  
99 63.5 42.3 63.5#



#3  
Chloromethane  
Concen: 0.301 ug/l  
RT: 2.275 min Scan# 66  
Delta R.T. 0.006 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

Tgt Ion: 50 Resp: 789  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.7 38.5#

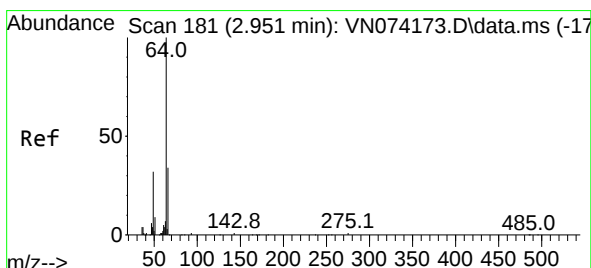
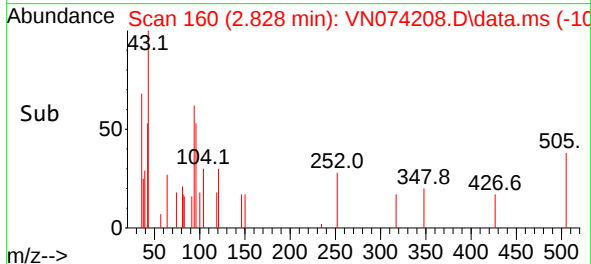
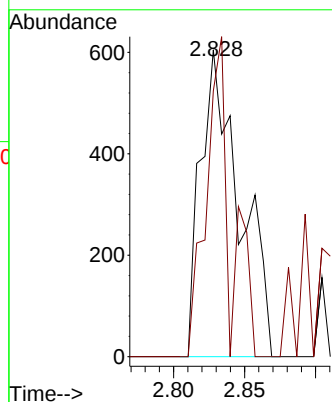
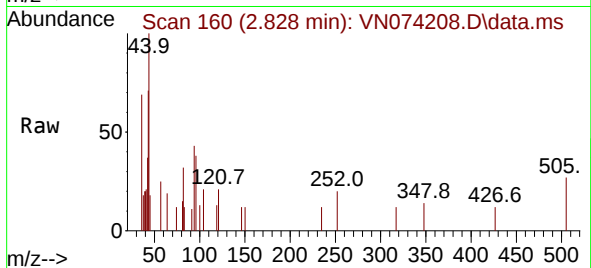




#5  
Bromomethane  
Concen: 0.812 ug/l  
RT: 2.828 min Scan# 11  
Delta R.T. 0.047 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

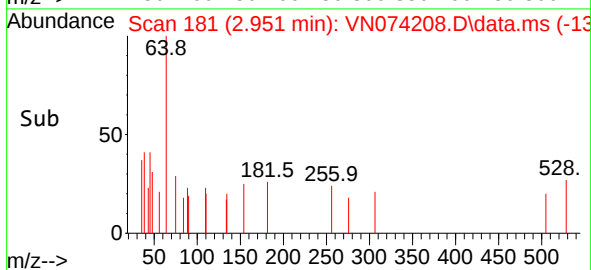
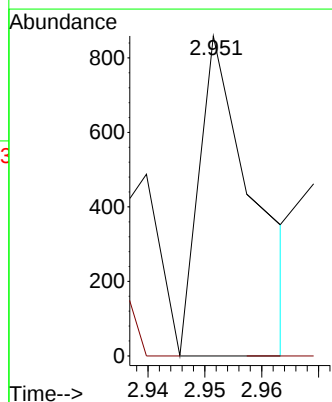
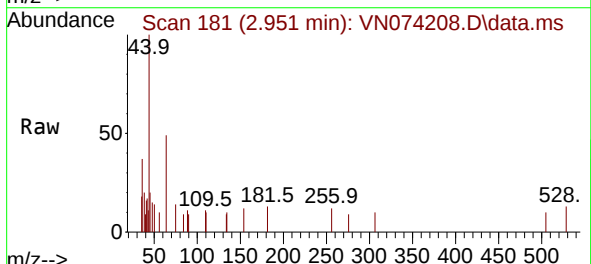
Instrument :  
MSVOA\_N  
ClientSampleId :  
MTL-1

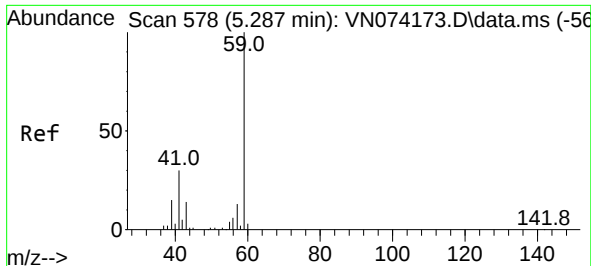
Tgt Ion: 94 Resp: 1156  
Ion Ratio Lower Upper  
94 100  
96 86.6 76.0 114.0



#6  
Chloroethane  
Concen: Below Cal  
RT: 2.951 min Scan# 181  
Delta R.T. 0.000 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

Tgt Ion: 64 Resp: 581  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.2 39.4#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.275 min Scan# 51

Delta R.T. -0.012 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

Instrument :

MSVOA\_N

ClientSampleId :

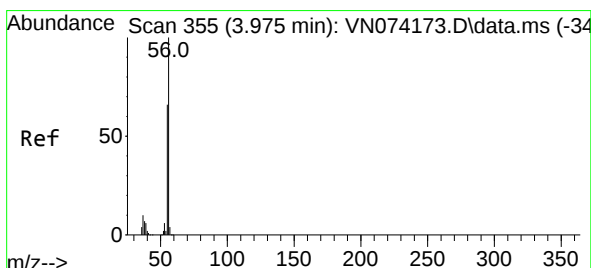
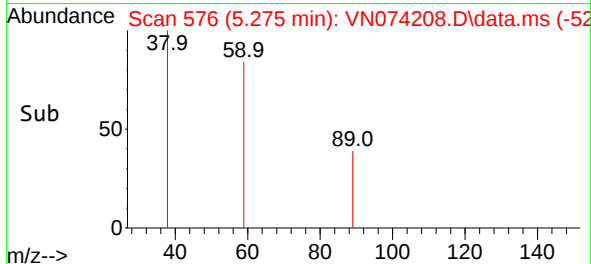
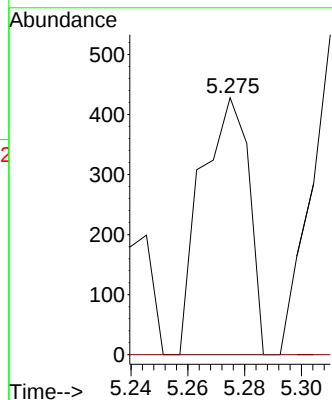
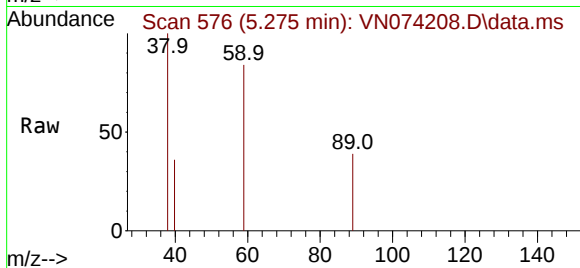
MTL-1

Tgt Ion: 59 Resp: 498

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.352 ug/l

RT: 3.993 min Scan# 358

Delta R.T. 0.018 min

Lab File: VN074208.D

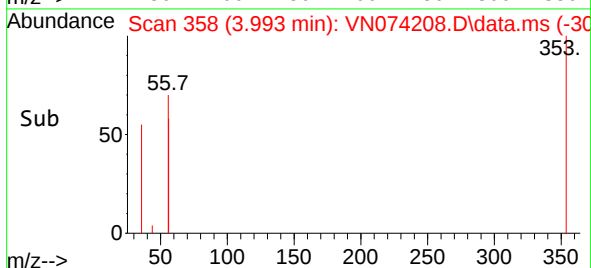
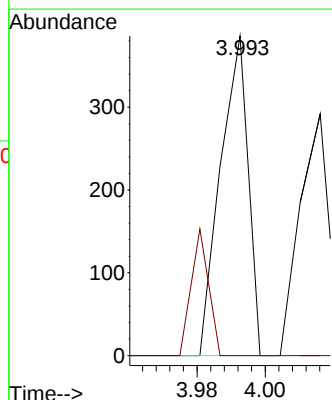
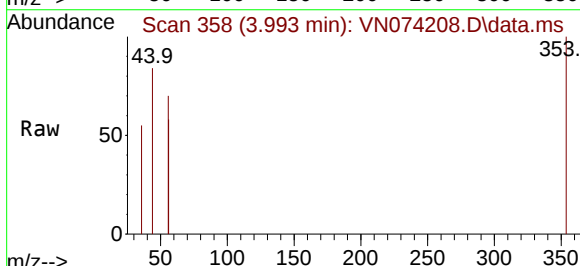
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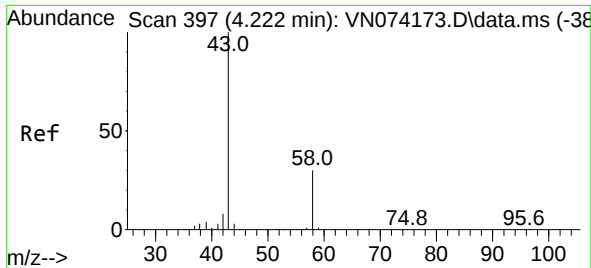
Tgt Ion: 56 Resp: 217

Ion Ratio Lower Upper

56 100

55 24.9 54.8 82.2#





#16

Acetone

Concen: 13.487 ug/l

RT: 4.234 min Scan# 399

Delta R.T. 0.012 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

Instrument :

MSVOA\_N

ClientSampleId :

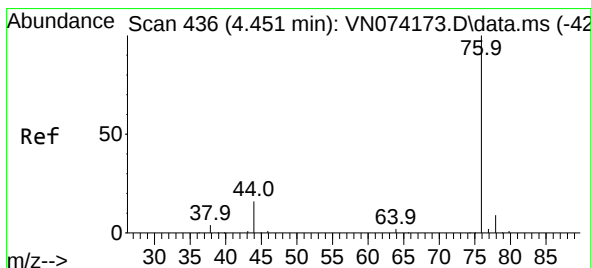
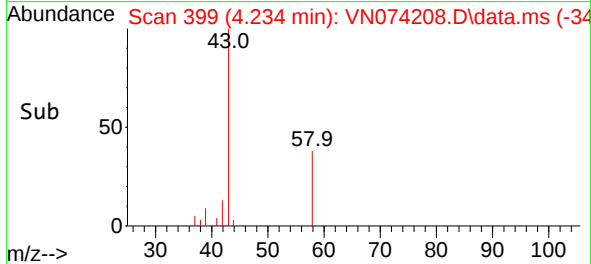
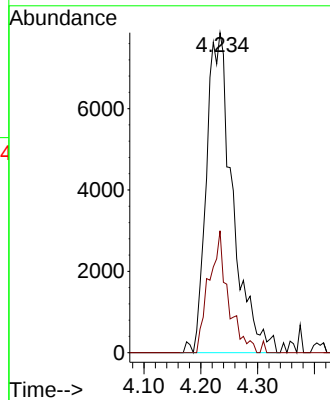
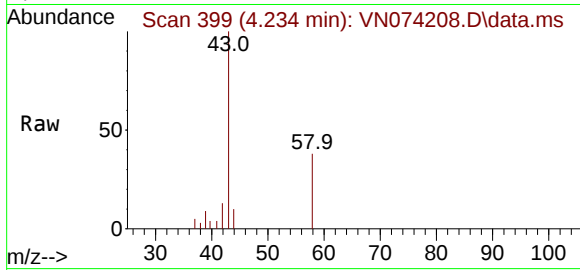
MTL-1

Tgt Ion: 43 Resp: 25132

Ion Ratio Lower Upper

43 100

58 38.1 26.0 39.0



#17

Carbon Disulfide

Concen: 0.227 ug/l

RT: 4.475 min Scan# 440

Delta R.T. 0.024 min

Lab File: VN074208.D

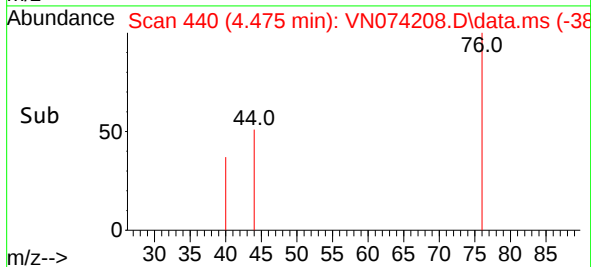
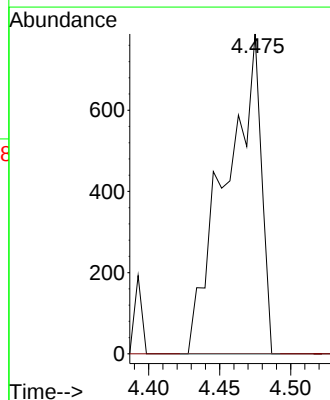
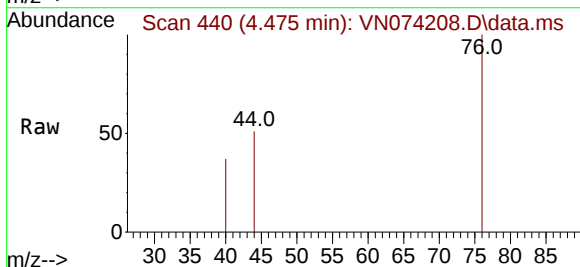
Acq: 31 Aug 2022 12:42

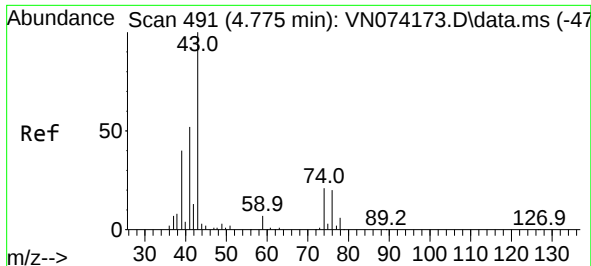
Tgt Ion: 76 Resp: 1363

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

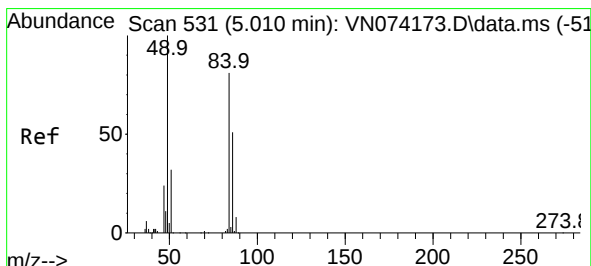
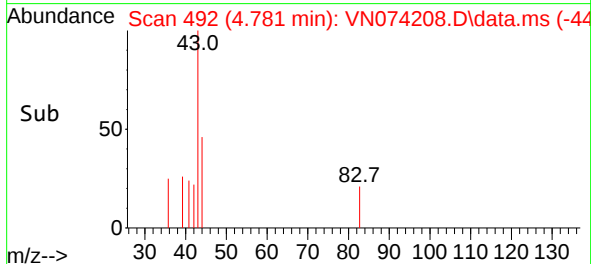
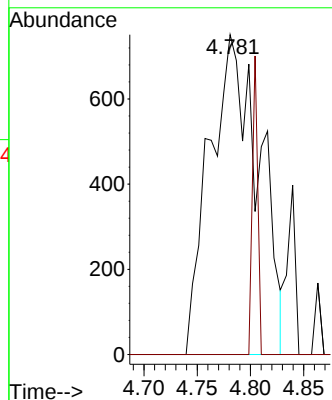
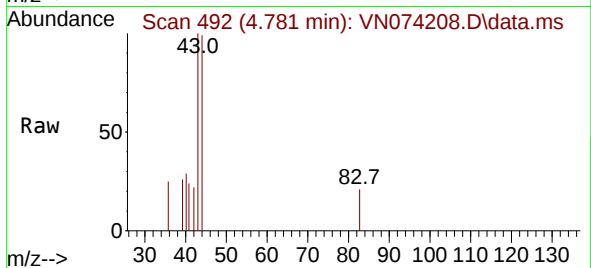




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.781 min Scan# 491  
Delta R.T. 0.006 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

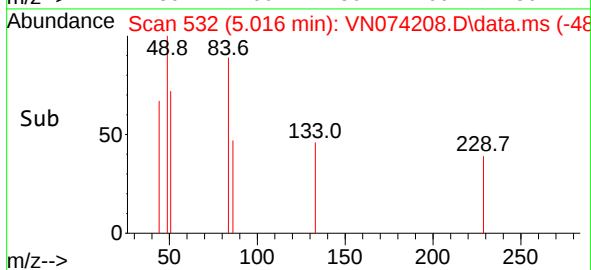
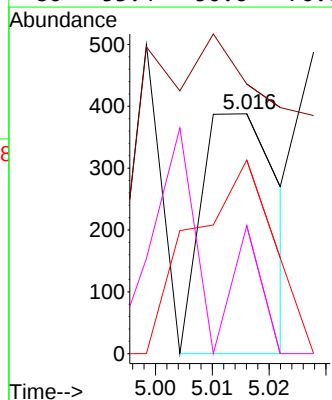
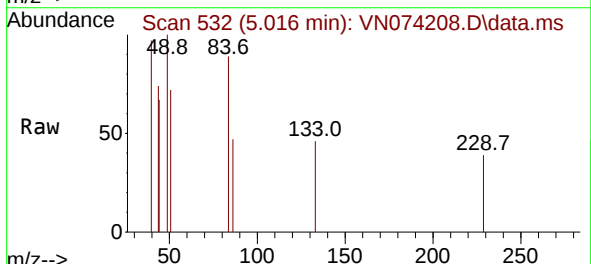
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MTL-1

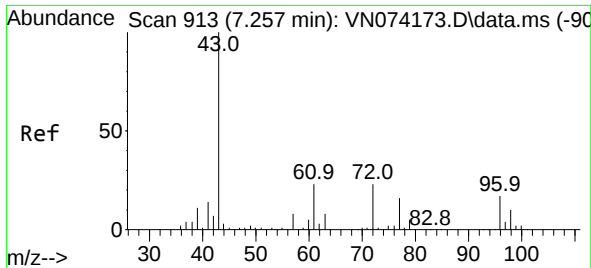
Tgt Ion: 43 Resp: 2422  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.6 32.4#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.016 min Scan# 532  
Delta R.T. 0.006 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

Tgt Ion: 84 Resp: 369  
Ion Ratio Lower Upper  
84 100  
49 9.8 88.3 132.5#  
51 40.7 28.2 42.2  
86 53.4 50.6 76.0

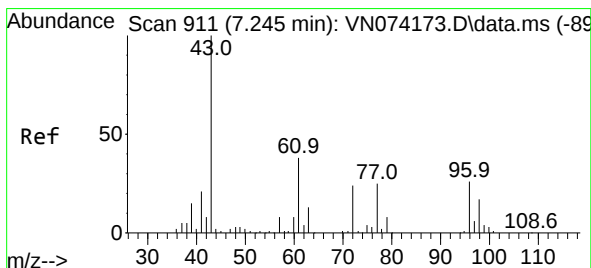
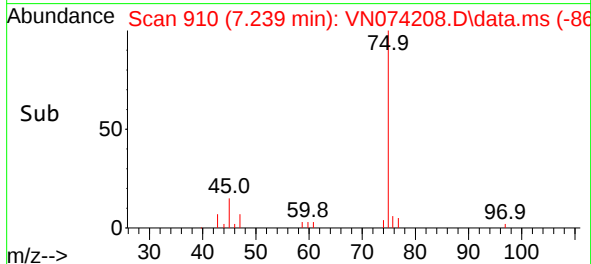
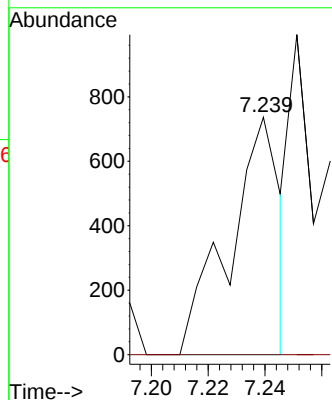
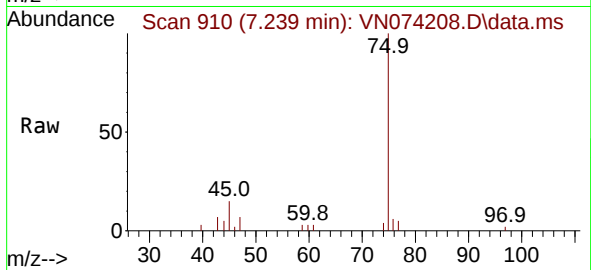




#25  
2-Butanone  
Concen: 0.306 ug/l  
RT: 7.239 min Scan# 910  
Delta R.T. -0.018 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

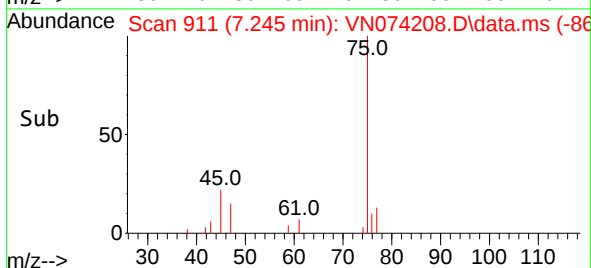
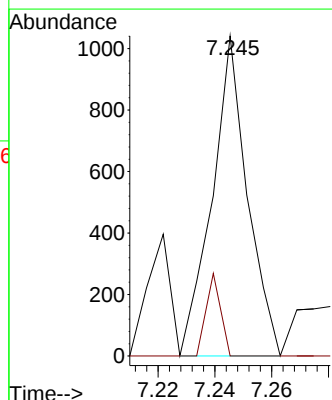
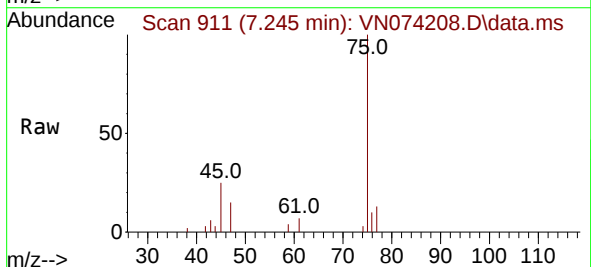
Instrument :  
MSVOA\_N  
ClientSampleId :  
MTL-1

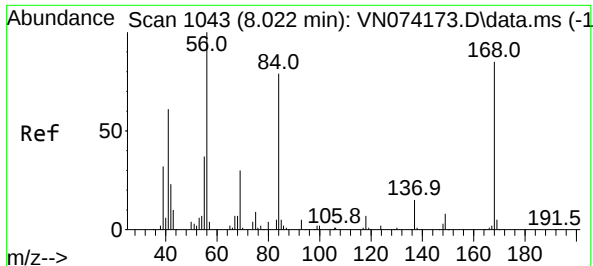
Tgt Ion: 43 Resp: 912  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.7 35.5#



#26  
2,2-Dichloropropane  
Concen: 0.562 ug/l  
RT: 7.245 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

Tgt Ion: 77 Resp: 900  
Ion Ratio Lower Upper  
77 100  
97 10.6 11.4 34.2#

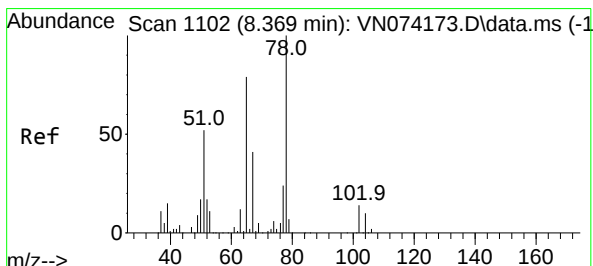
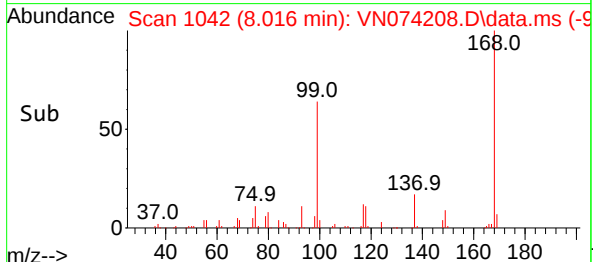
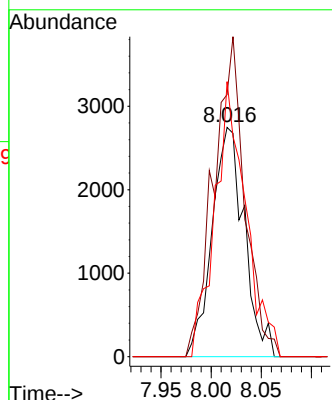
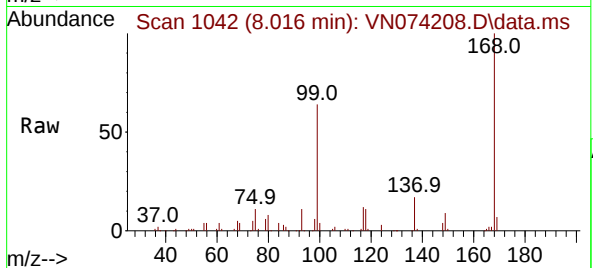




#31  
Cyclohexane  
Concen: 1.323 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.006 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

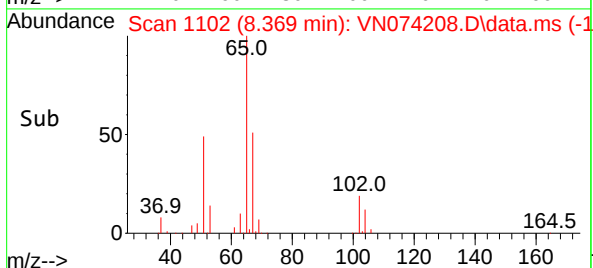
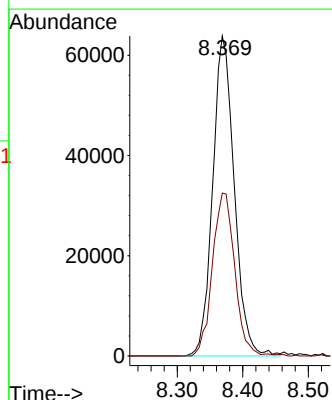
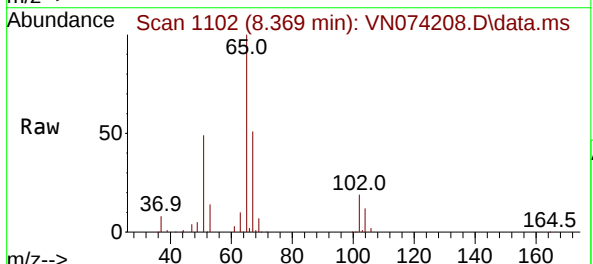
Instrument :  
MSVOA\_N  
ClientSampleId :  
MTL-1

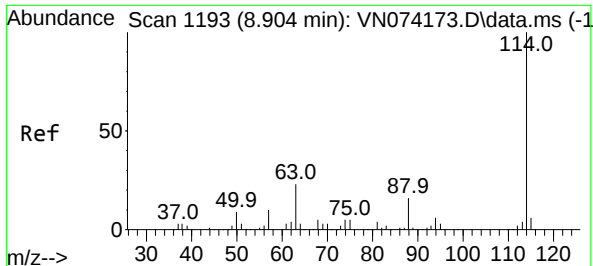
Tgt Ion: 56 Resp: 6096  
Ion Ratio Lower Upper  
56 100  
69 114.3 27.8 41.8#  
84 119.9 76.9 115.3#



#33  
1,2-Dichloroethane-d4  
Concen: 52.255 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. 0.000 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

Tgt Ion: 65 Resp: 145725  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

Instrument :

MSVOA\_N

ClientSampleId :

MTL-1

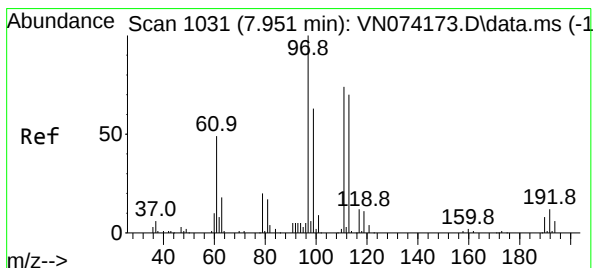
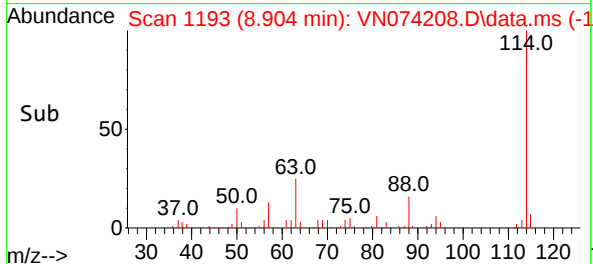
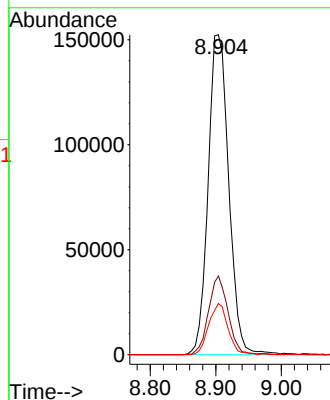
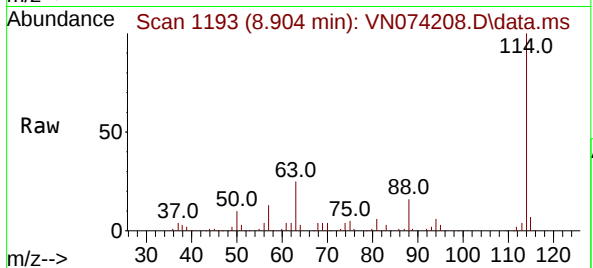
Tgt Ion:114 Resp: 333285

Ion Ratio Lower Upper

114 100

63 24.6 0.0 40.0

88 16.0 0.0 32.6



#35

Dibromofluoromethane

Concen: 54.621 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

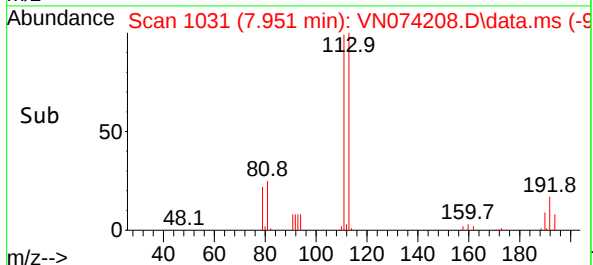
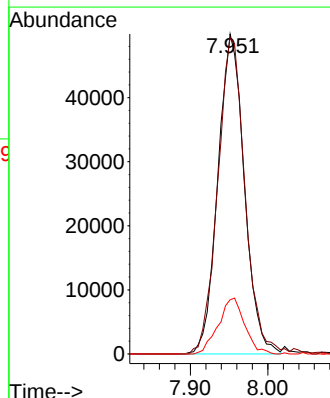
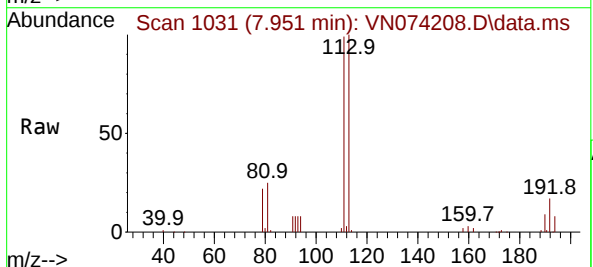
Tgt Ion:113 Resp: 118459

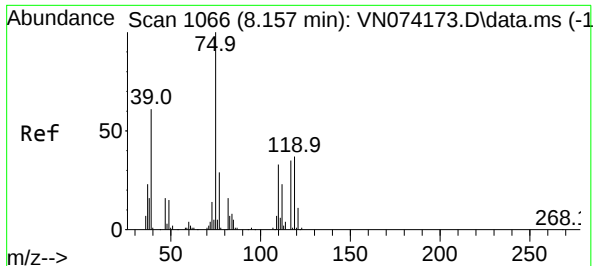
Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

192 17.4 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.269 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.141 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

Instrument :

MSVOA\_N

ClientSampleId :

MTL-1

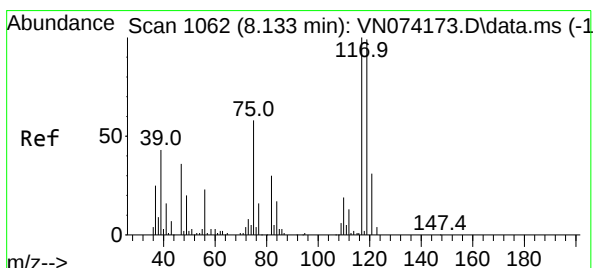
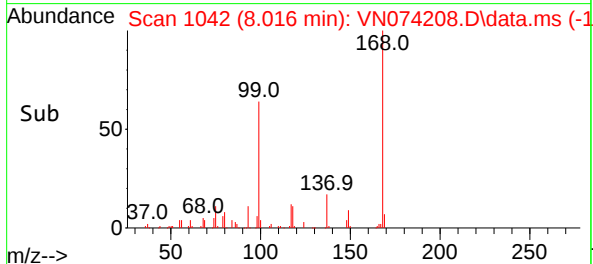
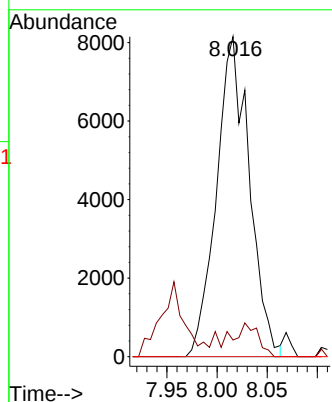
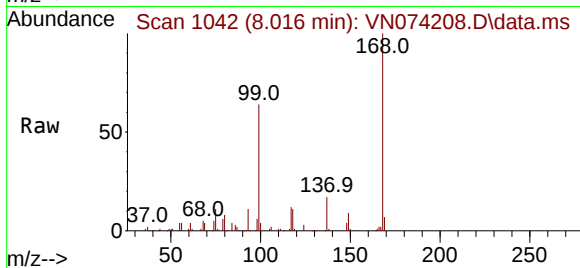
Tgt Ion: 75 Resp: 18541

Ion Ratio Lower Upper

75 100

110 8.0 18.3 54.8#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.227 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.111 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

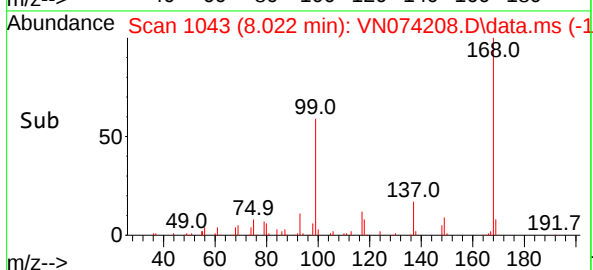
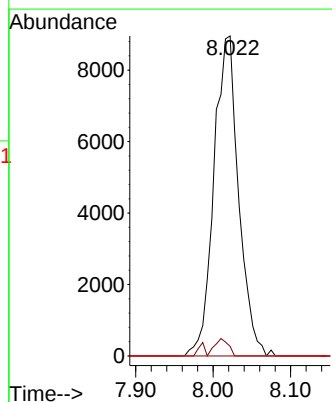
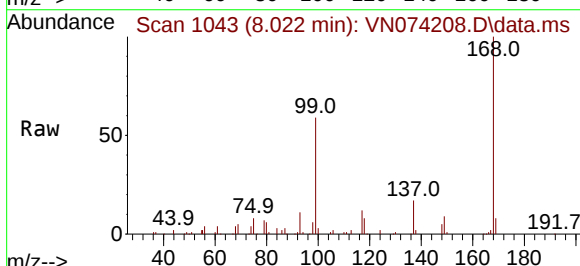
Tgt Ion: 117 Resp: 19902

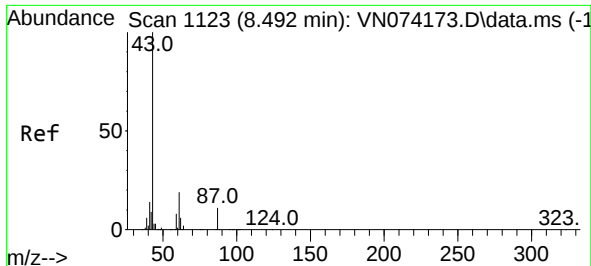
Ion Ratio Lower Upper

117 100

119 3.0 75.8 113.8#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 1.154 ug/l

RT: 8.616 min Scan# 1123

Delta R.T. 0.124 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

Instrument :

MSVOA\_N

ClientSampleId :

MTL-1

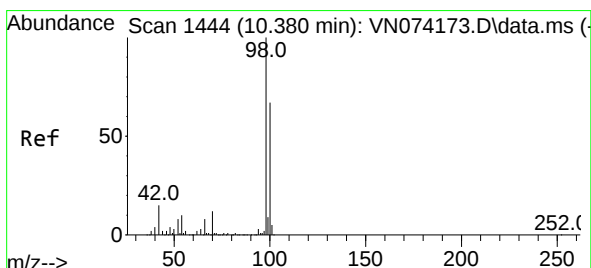
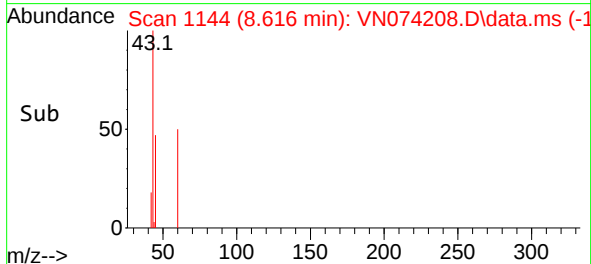
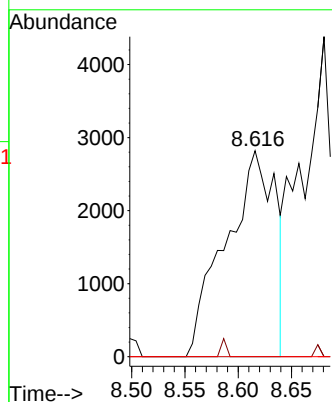
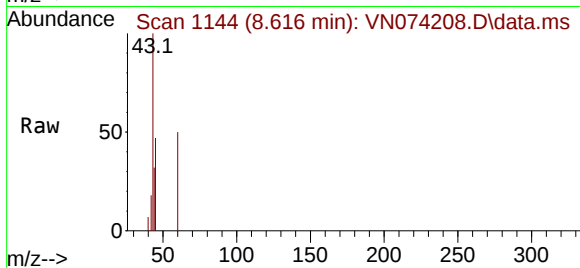
Tgt Ion: 43 Resp: 9132

Ion Ratio Lower Upper

43 100

61 0.0 21.9 32.9#

87 0.0 12.0 18.0#



#50

Toluene-d8

Concen: 44.739 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN074208.D

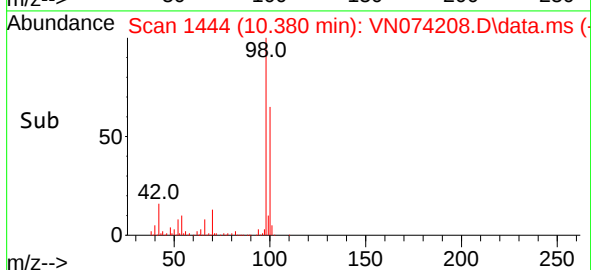
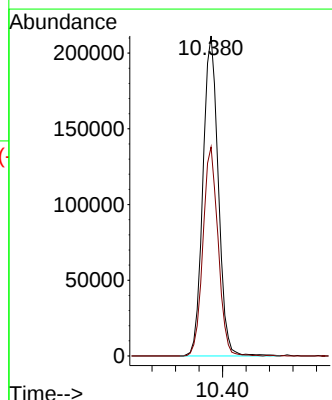
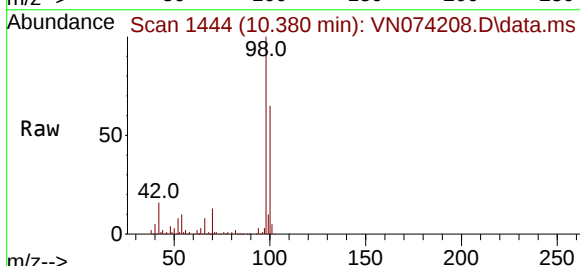
Acq: 31 Aug 2022 12:42

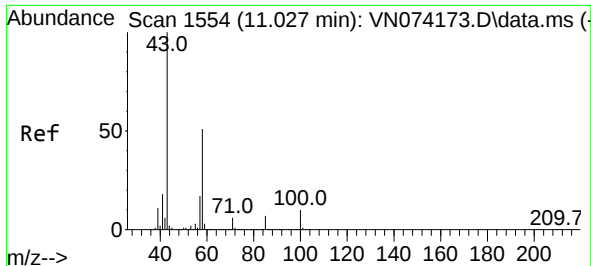
Tgt Ion: 98 Resp: 382111

Ion Ratio Lower Upper

98 100

100 64.4 52.6 78.8

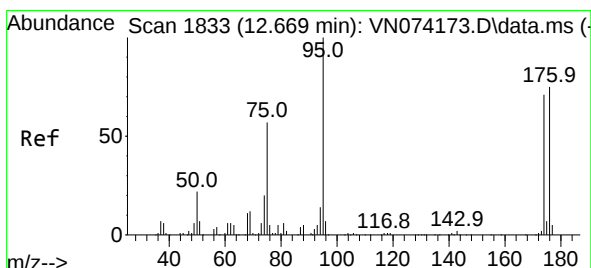
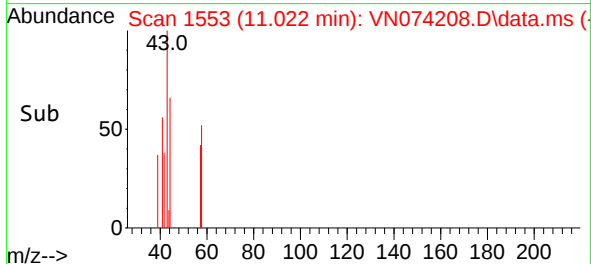
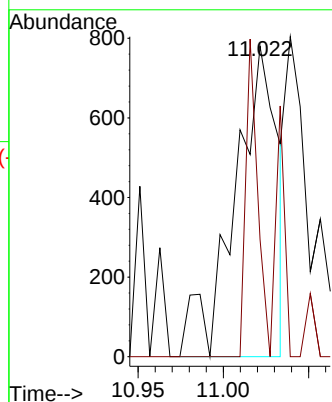
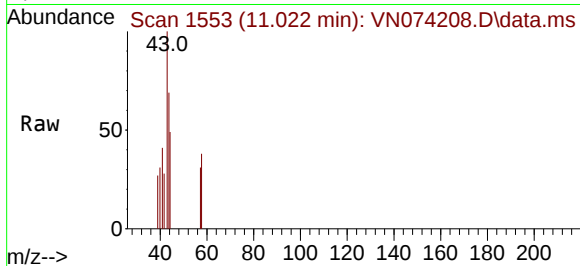




#59  
2-Hexanone  
Concen: 0.315 ug/l  
RT: 11.022 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

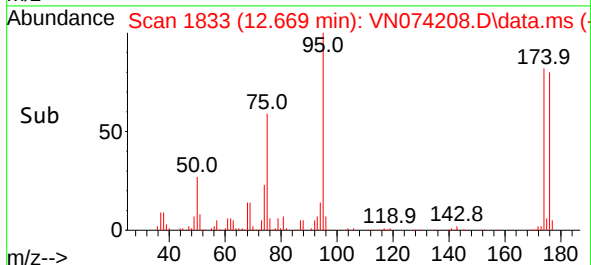
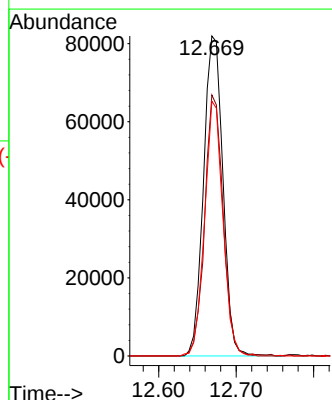
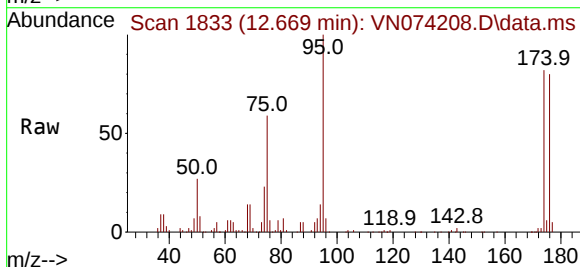
Instrument :  
MSVOA\_N  
ClientSampleId :  
MTL-1

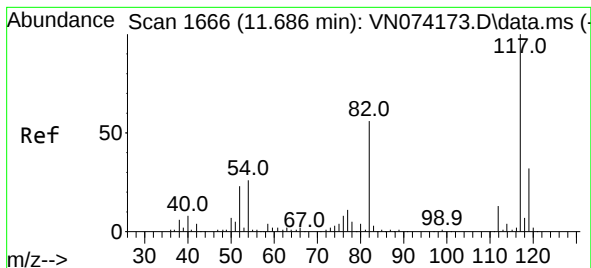
Tgt Ion: 43 Resp: 1374  
Ion Ratio Lower Upper  
43 100  
58 28.1 29.7 89.1#



#62  
4-Bromofluorobenzene  
Concen: 54.733 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. 0.000 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

Tgt Ion: 95 Resp: 142159  
Ion Ratio Lower Upper  
95 100  
174 77.4 0.0 167.6  
176 75.4 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.680 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

Instrument :

MSVOA\_N

ClientSampleId :

MTL-1

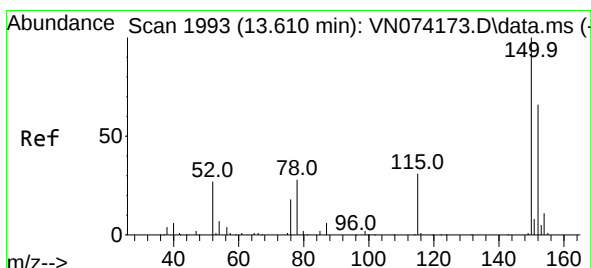
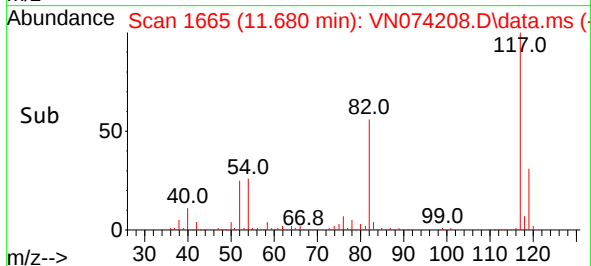
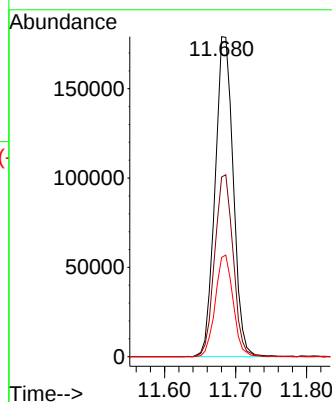
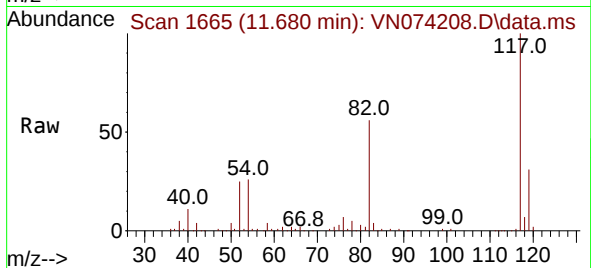
Tgt Ion:117 Resp: 318516

Ion Ratio Lower Upper

117 100

82 56.1 44.2 66.2

119 31.1 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.610 min Scan# 1993

Delta R.T. -0.000 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

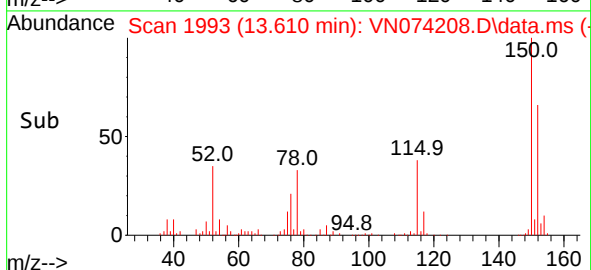
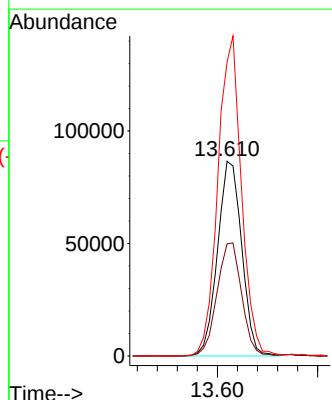
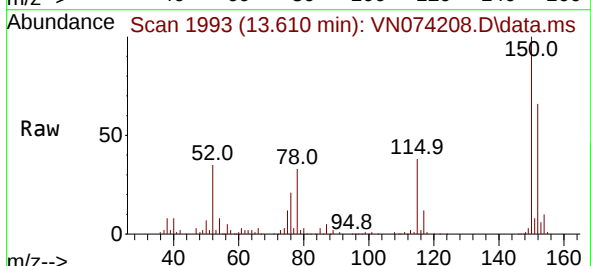
Tgt Ion:152 Resp: 144871

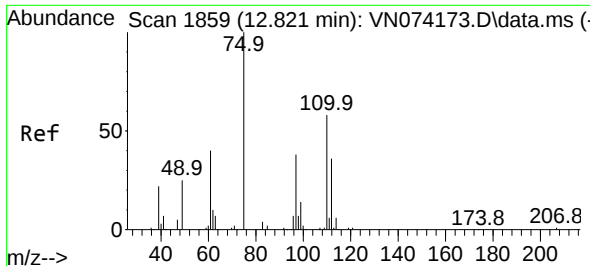
Ion Ratio Lower Upper

152 100

115 59.1 28.9 86.7

150 159.6 0.0 356.2

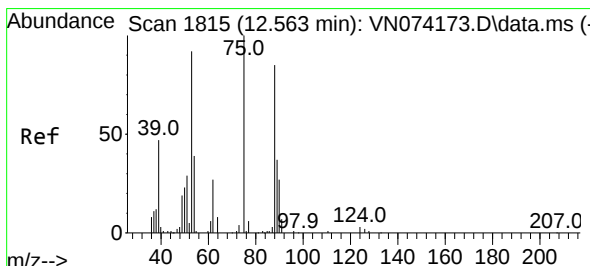
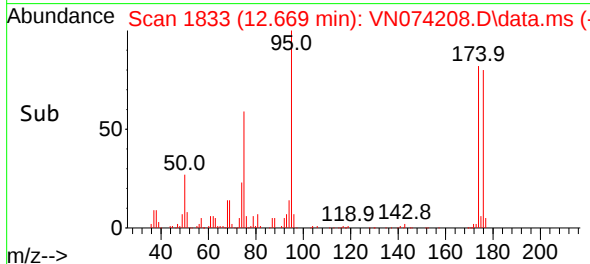
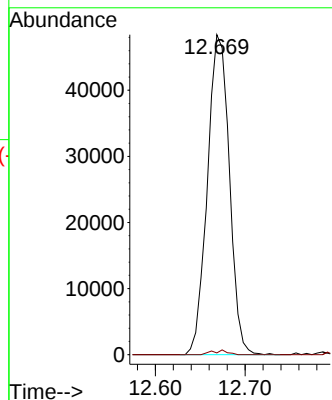
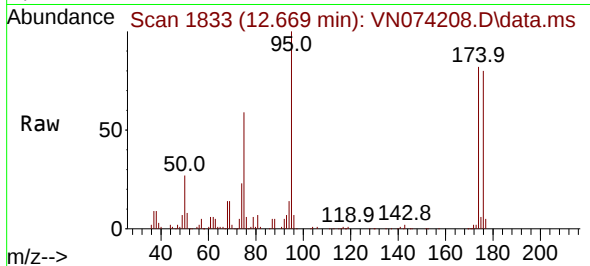




#76  
1,2,3-Trichloropropane  
Concen: 22.684 ug/l  
RT: 12.669 min Scan# 1859  
Delta R.T. -0.152 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

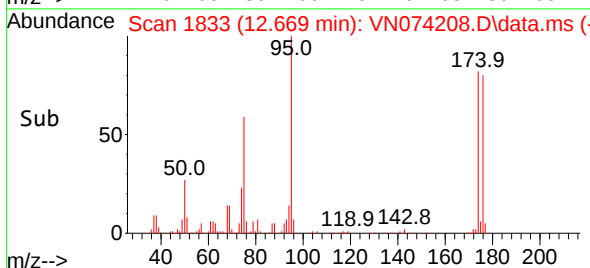
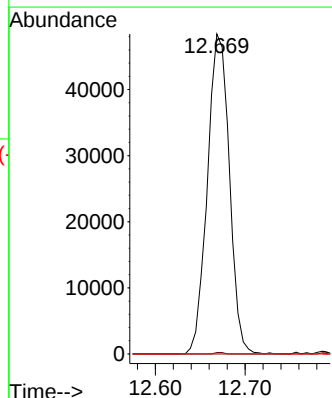
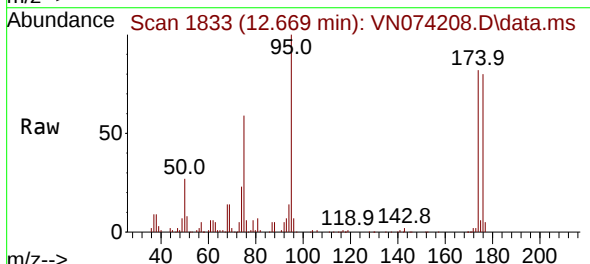
Instrument :  
MSVOA\_N  
ClientSampleId :  
MTL-1

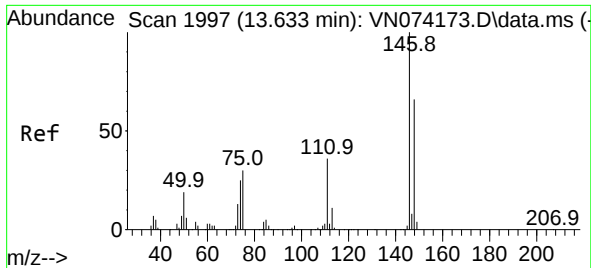
Tgt Ion: 75 Resp: 82343  
Ion Ratio Lower Upper  
75 100  
77 1.0 98.5 295.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 58.997 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. 0.106 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

Tgt Ion: 75 Resp: 82343  
Ion Ratio Lower Upper  
75 100  
53 0.2 78.0 117.0#  
89 0.0 37.2 55.8#

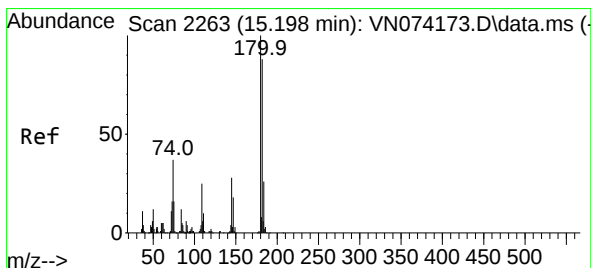
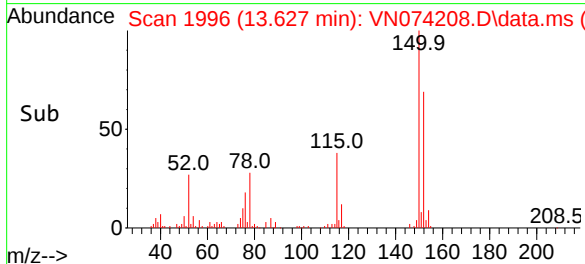
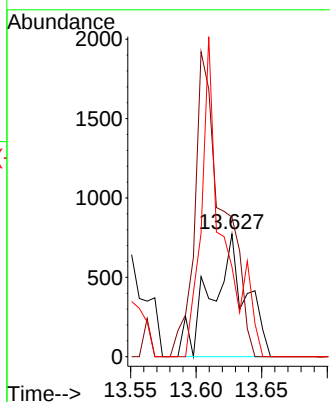
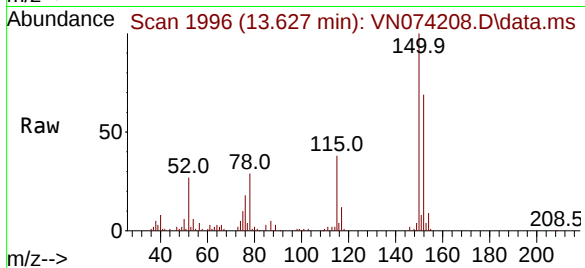




#88  
1,4-Dichlorobenzene  
Concen: 0.264 ug/l  
RT: 13.627 min Scan# 1996  
Delta R.T. -0.006 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

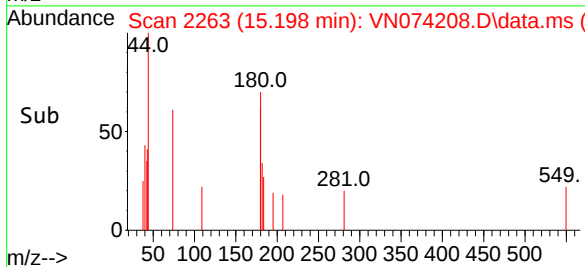
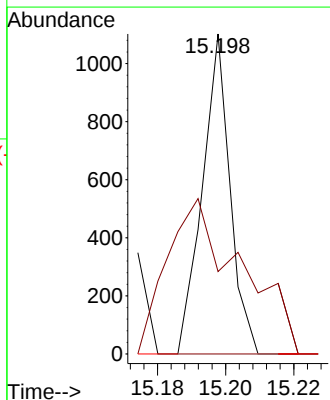
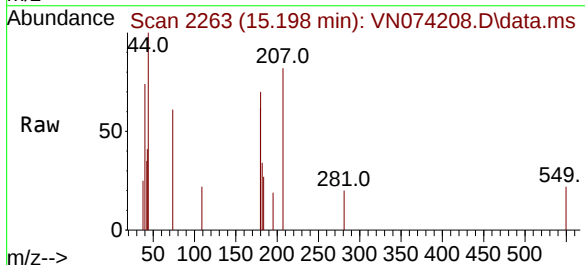
Instrument :  
MSVOA\_N  
ClientSampleId :  
MTL-1

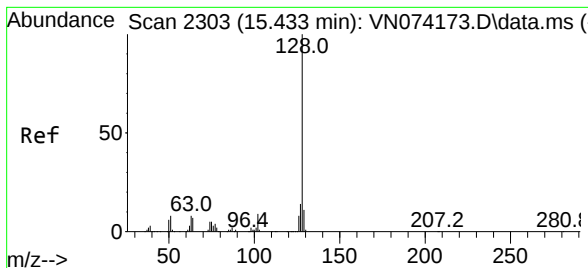
Tgt Ion:146 Resp: 1413  
Ion Ratio Lower Upper  
146 100  
111 0.0 19.1 57.1#  
148 0.0 31.4 94.3#



#93  
1,2,4-Trichlorobenzene  
Concen: 0.233 ug/l  
RT: 15.198 min Scan# 2263  
Delta R.T. 0.000 min  
Lab File: VN074208.D  
Acq: 31 Aug 2022 12:42

Tgt Ion:180 Resp: 622  
Ion Ratio Lower Upper  
180 100  
182 130.2 47.5 142.5  
145 0.0 14.5 43.5#





#95

Naphthalene

Concen: 1.638 ug/l

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

Instrument :

MSVOA\_N

ClientSampleId :

MTL-1

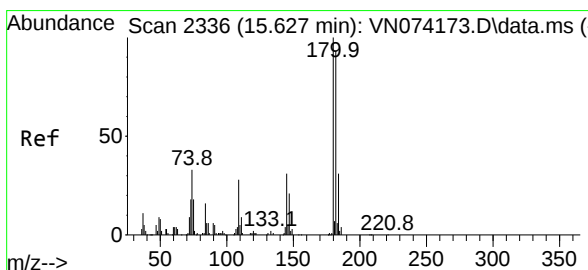
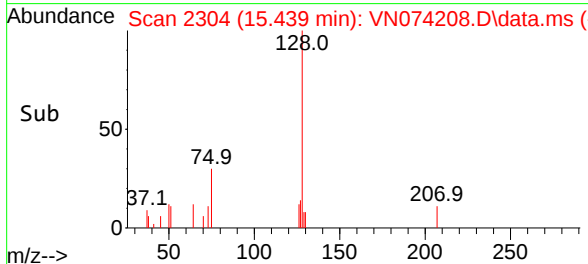
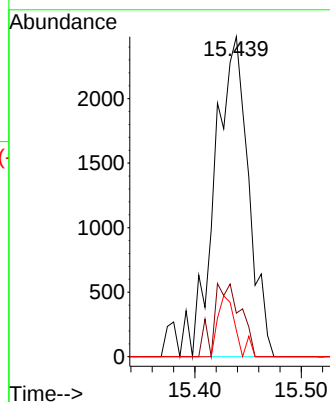
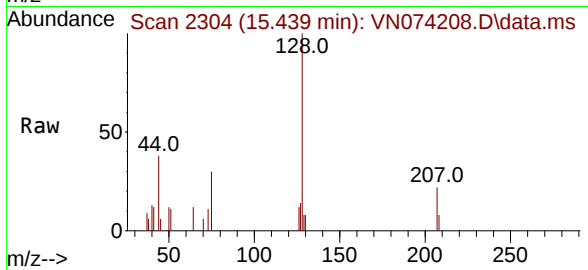
Tgt Ion:128 Resp: 5478

Ion Ratio Lower Upper

128 100

127 18.3 10.3 15.5#

129 10.0 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 0.468 ug/l

RT: 15.615 min Scan# 2334

Delta R.T. -0.012 min

Lab File: VN074208.D

Acq: 31 Aug 2022 12:42

Tgt Ion:180 Resp: 1294

Ion Ratio Lower Upper

180 100

182 30.6 47.8 143.3#

145 32.1 15.5 46.5

