

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121522\  
 Data File : VN075823.D  
 Acq On : 15 Dec 2022 17:23  
 Operator : JC\MD  
 Sample : N6067-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 16 03:11:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

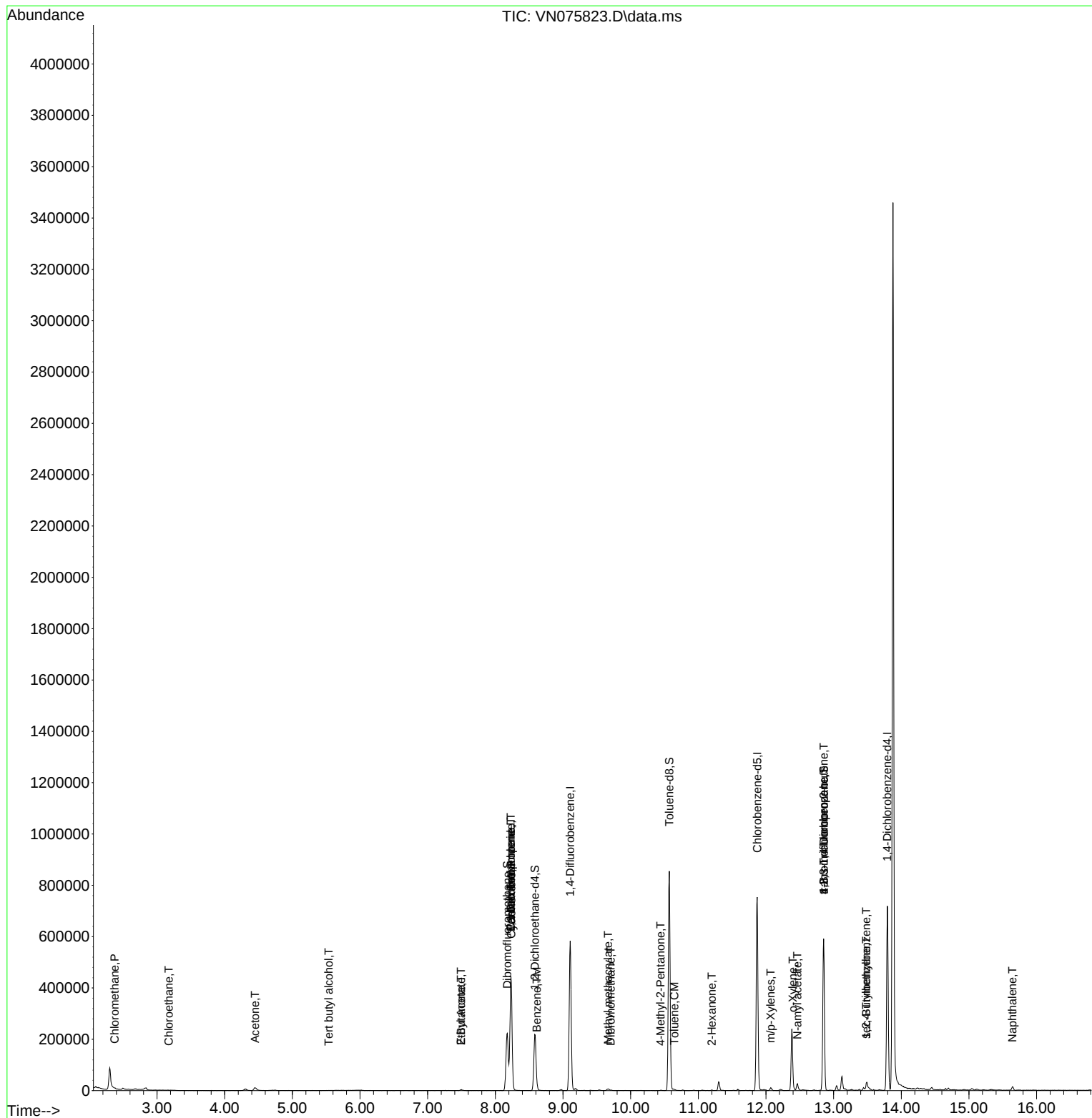
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.229          | 168  | 339985     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 533522     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870         | 117  | 466489     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 201864     | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 177122     | 47.887    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 95.780%   |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 161069     | 48.749    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 97.500%   |        |          |
| 50) Toluene-d8                | 10.570         | 98   | 616794     | 49.929    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 99.860%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 197670     | 48.312    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 96.620%   |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 2.371          | 50   | 709        | 0.236     | ug/l # | 40       |
| 6) Chloroethane               | 3.171          | 64   | 635        | 0.239     | ug/l # | 44       |
| 11) Tert butyl alcohol        | 5.536          | 59   | 367        | 0.701     | ug/l # | 72       |
| 16) Acetone                   | 4.447          | 43   | 21908      | 17.182    | ug/l   | 91       |
| 20) Methylene Chloride        | 5.294          | 84   | 112        | Below Cal | #      | 12       |
| 25) 2-Butanone                | 7.494          | 43   | 5459       | 3.058     | ug/l # | 73       |
| 31) Cyclohexane               | 8.235          | 56   | 6180       | 1.167     | ug/l # | 19       |
| 36) 1,1-Dichloropropene       | 8.229          | 75   | 24789      | 5.648     | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.494          | 43   | 5459       | 1.548     | ug/l # | 65       |
| 38) Carbon Tetrachloride      | 8.229          | 117  | 34139      | 6.950     | ug/l # | 15       |
| 40) Benzene                   | 8.612          | 78   | 6853       | 0.506     | ug/l # | 86       |
| 46) Dibromomethane            | 9.706          | 93   | 804        | 0.329     | ug/l # | 85       |
| 48) Methyl methacrylate       | 9.665          | 41   | 1479       | 0.565     | ug/l # | 36       |
| 51) 4-Methyl-2-Pentanone      | 10.441         | 43   | 976        | 0.278     | ug/l   | 96       |
| 52) Toluene                   | 10.647         | 92   | 1886       | 0.214     | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200         | 43   | 1468       | 0.572     | ug/l   | 91       |
| 68) m/p-Xylenes               | 12.070         | 106  | 4177       | 0.653     | ug/l   | 90       |
| 69) o-Xylene                  | 12.394         | 106  | 2321       | 0.367     | ug/l   | 82       |
| 74) N-amyl acetate            | 12.464         | 43   | 15226      | 3.558     | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 100865     | 24.788    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 100865     | 89.225    | ug/l # | 12       |
| 84) 1,2,4-Trimethylbenzene    | 13.482         | 105  | 3632       | 0.300     | ug/l   | 87       |
| 85) sec-Butylbenzene          | 13.482         | 105  | 3632       | 0.244     | ug/l # | 56       |
| 95) Naphthalene               | 15.641         | 128  | 14489      | 3.439     | ug/l   | 98       |
| -----                         |                |      |            |           |        |          |

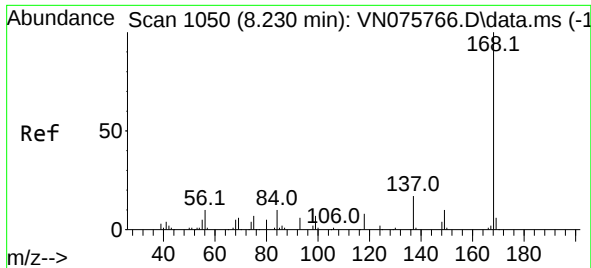
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 14 13:03:41 2022  
Response via : Initial Calibration

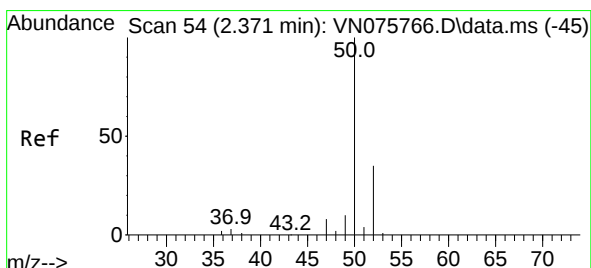
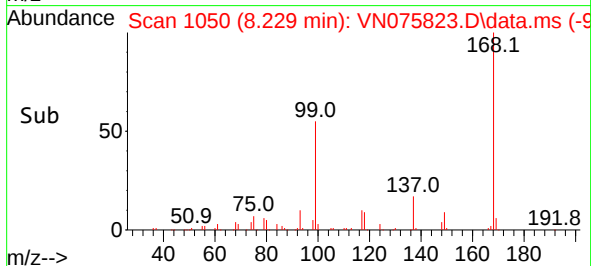
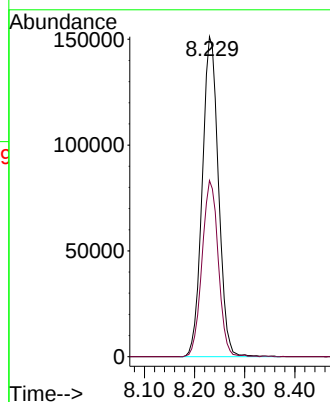
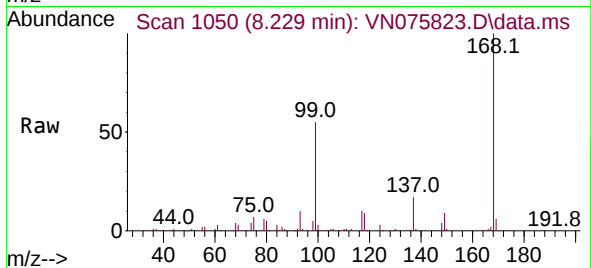




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.229 min Scan# 10  
Delta R.T. -0.001 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

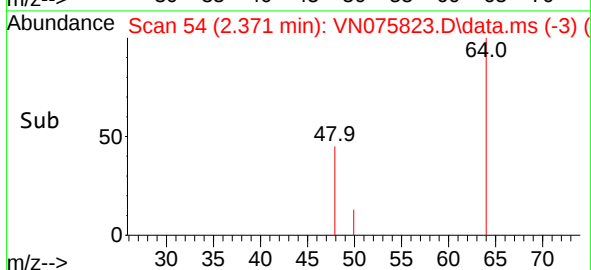
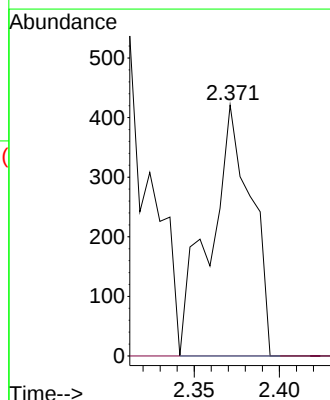
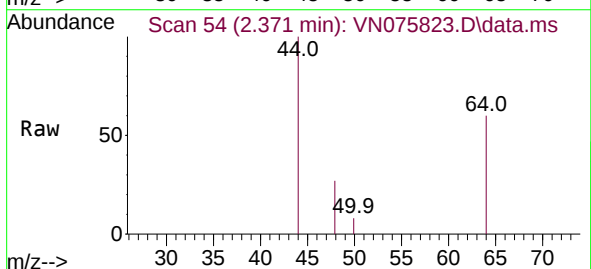
Instrument :  
MSVOA\_N  
ClientSampleId :

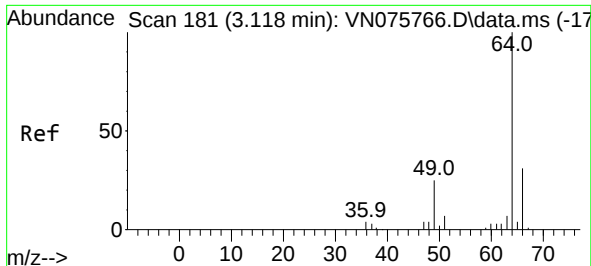
Tgt Ion:168 Resp: 339985  
Ion Ratio Lower Upper  
168 100  
99 55.0 44.2 66.4



#3  
Chloromethane  
Concen: 0.236 ug/l  
RT: 2.371 min Scan# 54  
Delta R.T. -0.000 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

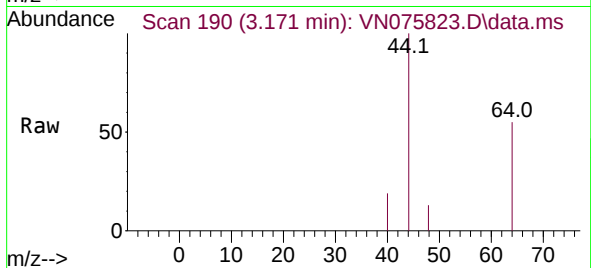
Tgt Ion: 50 Resp: 709  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.7 41.5#



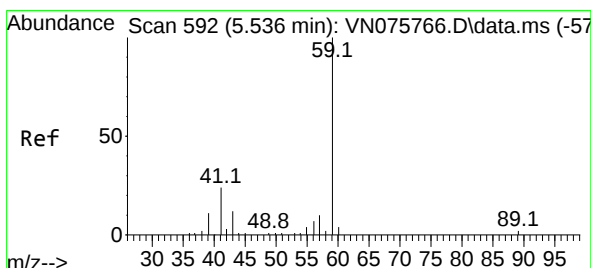
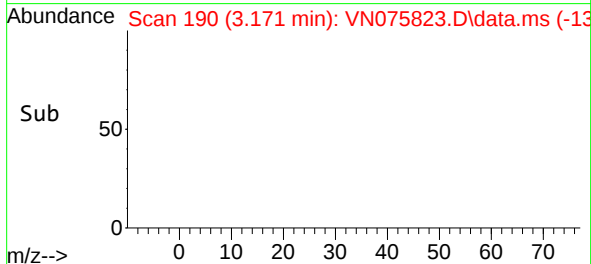
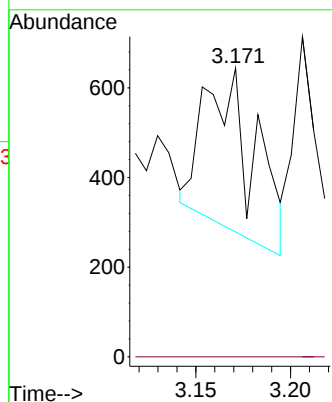


#6  
Chloroethane  
Concen: 0.239 ug/l  
RT: 3.171 min Scan# 190  
Delta R.T. 0.053 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Instrument :  
MSVOA\_N  
ClientSampleId :

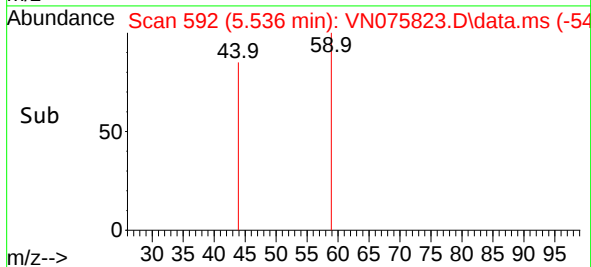
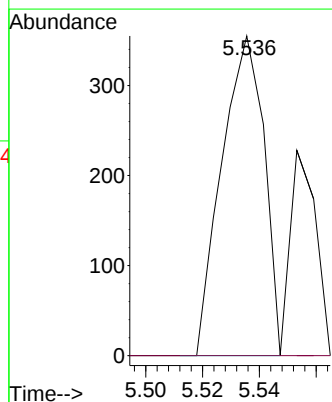
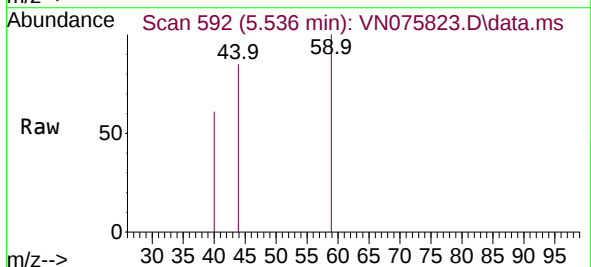


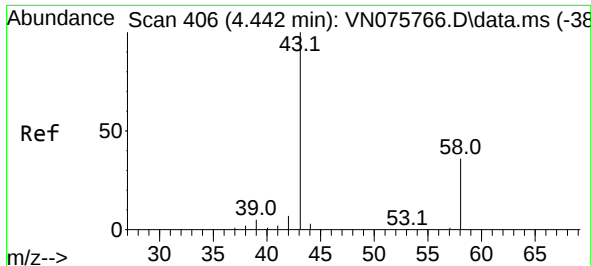
Tgt Ion: 64 Resp: 635  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.6 36.8#



#11  
Tert butyl alcohol  
Concen: 0.701 ug/l  
RT: 5.536 min Scan# 592  
Delta R.T. -0.000 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion: 59 Resp: 367  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

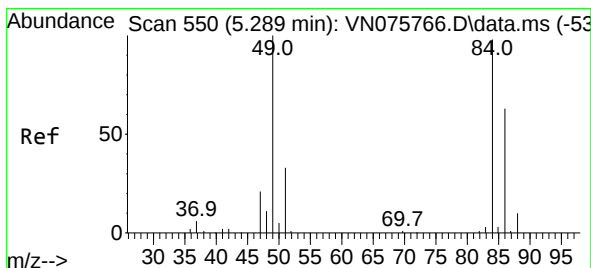
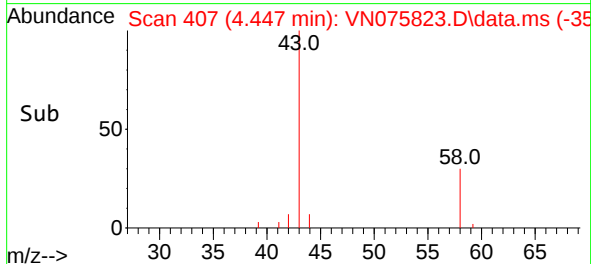
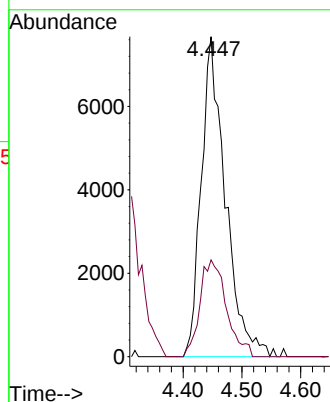
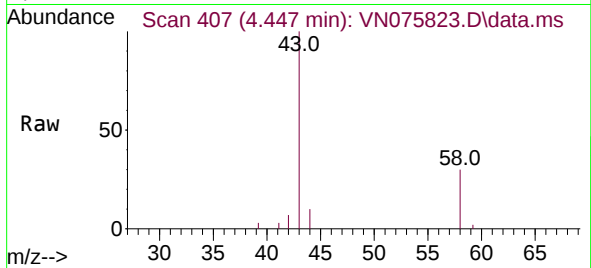




#16  
Acetone  
Concen: 17.182 ug/l  
RT: 4.447 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

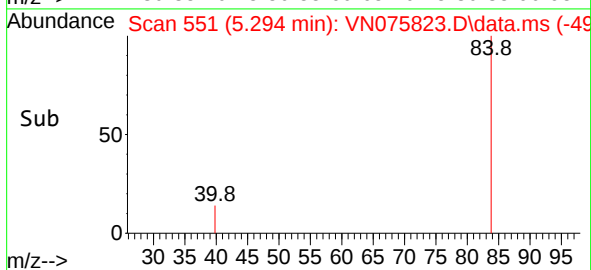
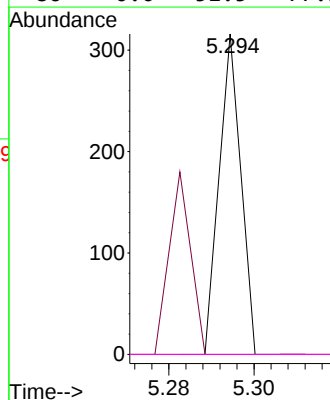
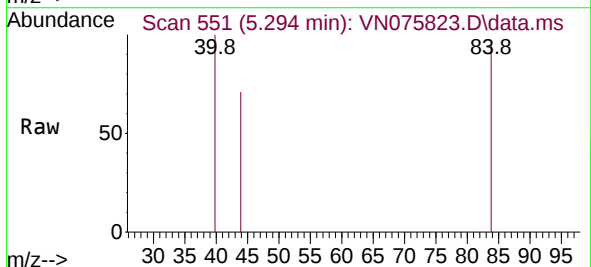
Instrument :  
MSVOA\_N  
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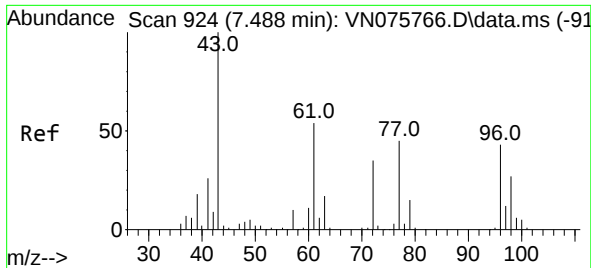
Tgt Ion: 43 Resp: 21908  
Ion Ratio Lower Upper  
43 100  
58 30.2 28.6 43.0



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.294 min Scan# 551  
Delta R.T. 0.005 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion: 84 Resp: 112  
Ion Ratio Lower Upper  
84 100  
49 0.0 81.8 122.6#  
51 0.0 26.7 40.1#  
86 0.0 51.5 77.3#

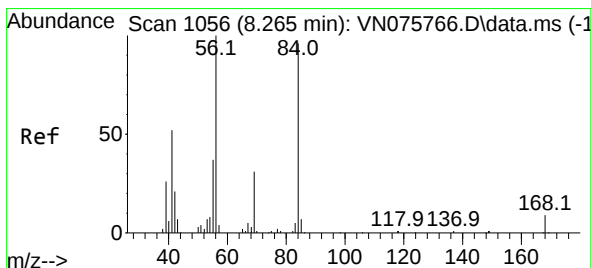
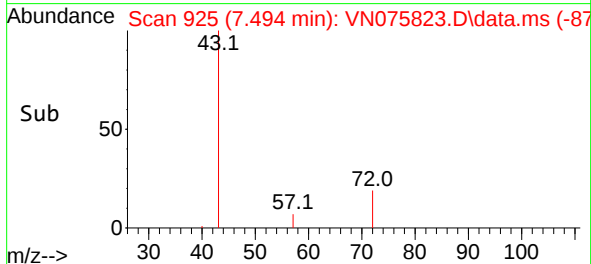
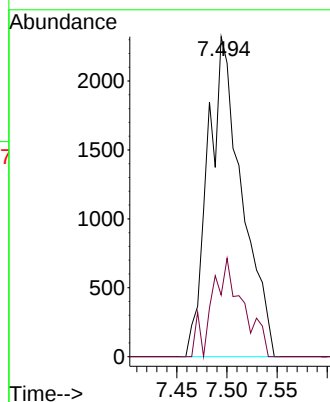
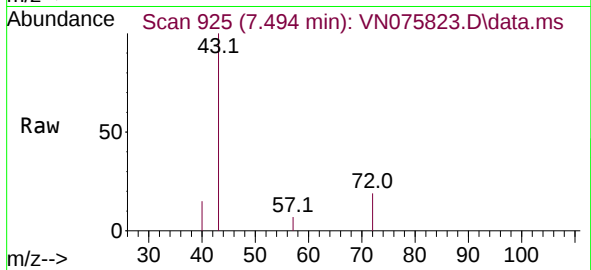




#25  
2-Butanone  
Concen: 3.058 ug/l  
RT: 7.494 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

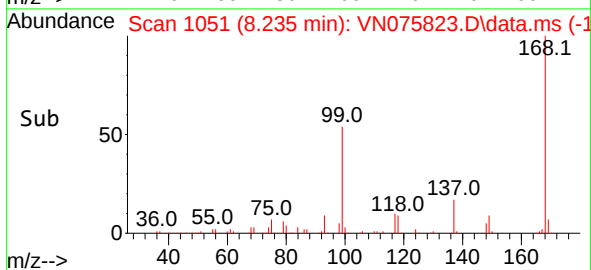
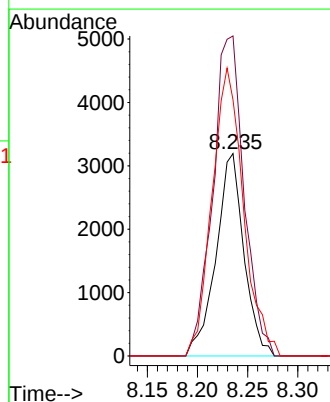
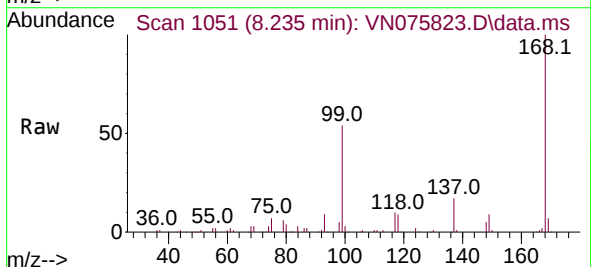
Instrument :  
MSVOA\_N  
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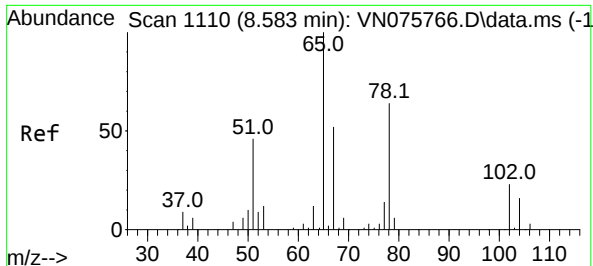
Tgt Ion: 43 Resp: 5459  
Ion Ratio Lower Upper  
43 100  
72 19.3 28.0 42.0#



#31  
Cyclohexane  
Concen: 1.167 ug/l  
RT: 8.235 min Scan# 1051  
Delta R.T. -0.030 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion: 56 Resp: 6180  
Ion Ratio Lower Upper  
56 100  
69 158.1 24.7 37.1#  
84 126.6 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 47.887 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN075823.D

Acq: 15 Dec 2022 17:23

Instrument :

MSVOA\_N

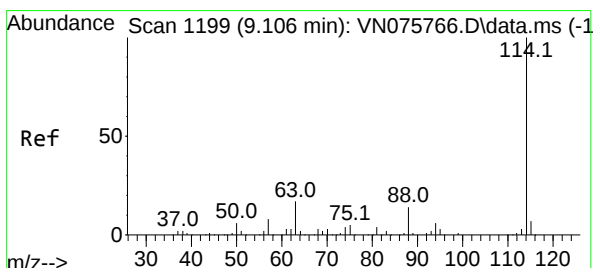
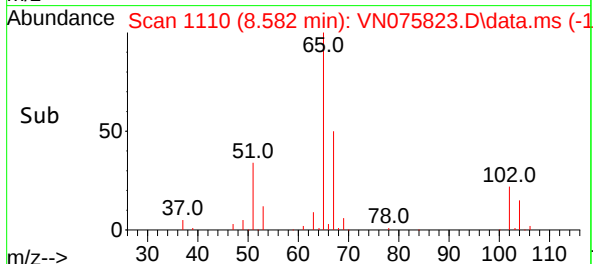
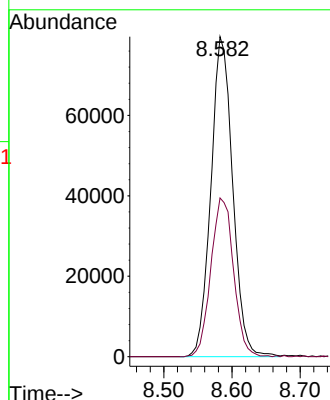
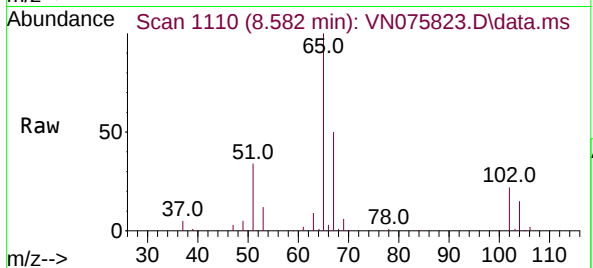
ClientSampleId :

Tgt Ion: 65 Resp: 177122

Ion Ratio Lower Upper

65 100

67 51.6 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075823.D

Acq: 15 Dec 2022 17:23

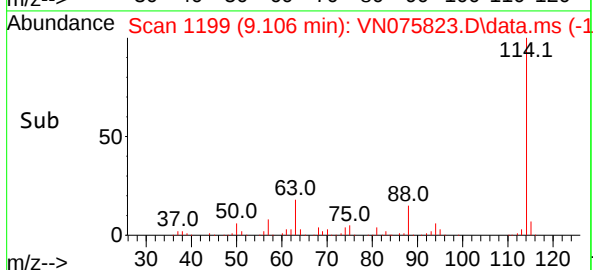
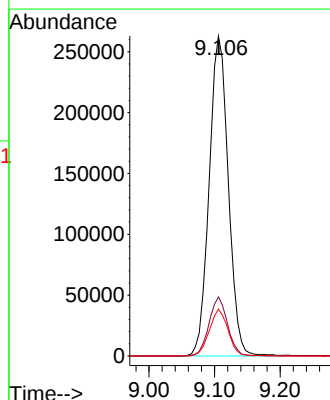
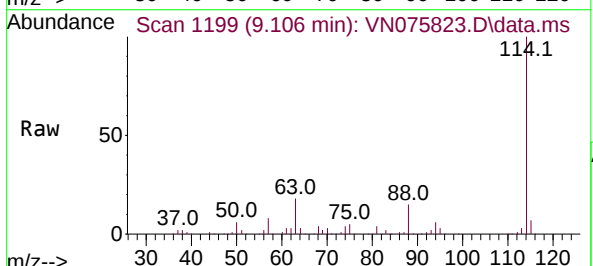
Tgt Ion: 114 Resp: 533522

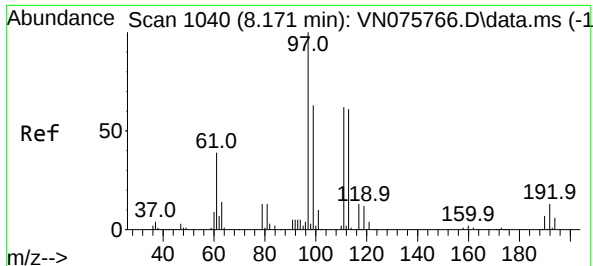
Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.4

88 14.7 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.749 ug/l

RT: 8.177 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VN075823.D

Acq: 15 Dec 2022 17:23

Instrument :

MSVOA\_N

ClientSampleId :

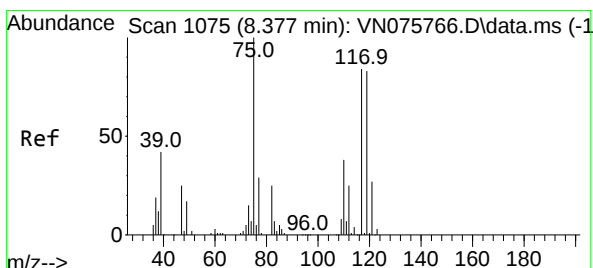
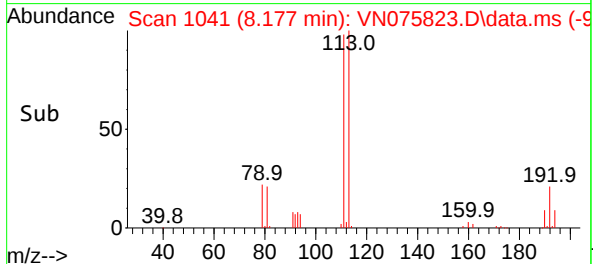
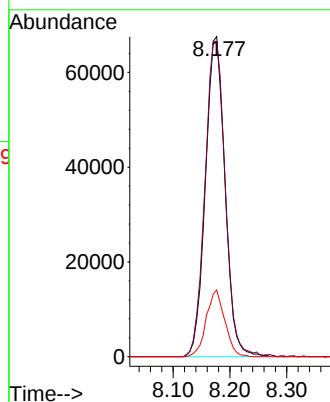
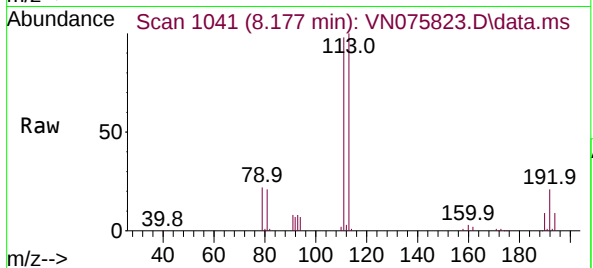
Tgt Ion:113 Resp: 161069

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.2

192 19.8 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.648 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075823.D

Acq: 15 Dec 2022 17:23

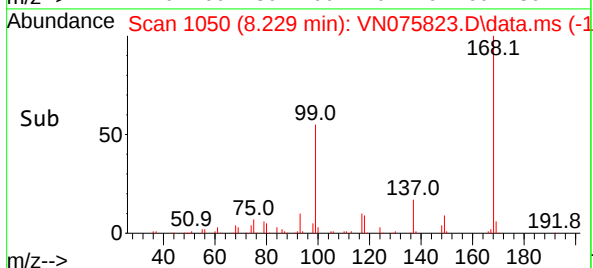
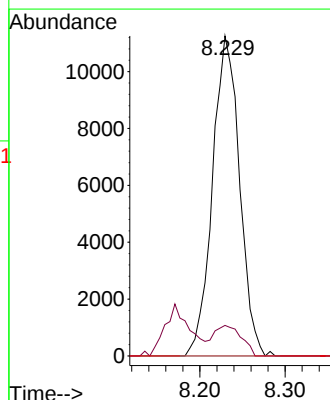
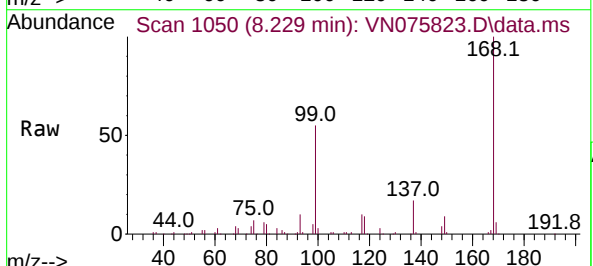
Tgt Ion: 75 Resp: 24789

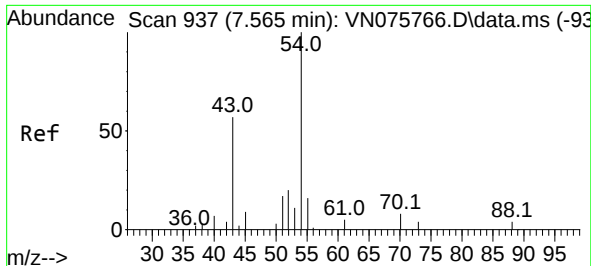
Ion Ratio Lower Upper

75 100

110 10.0 18.8 56.4#

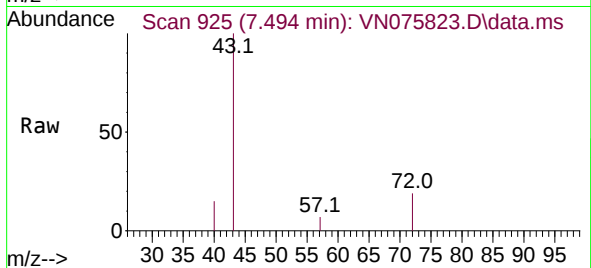
77 0.0 24.1 36.1#



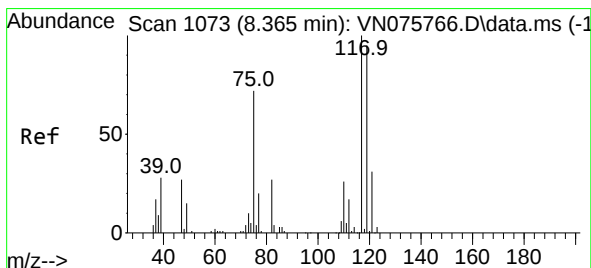
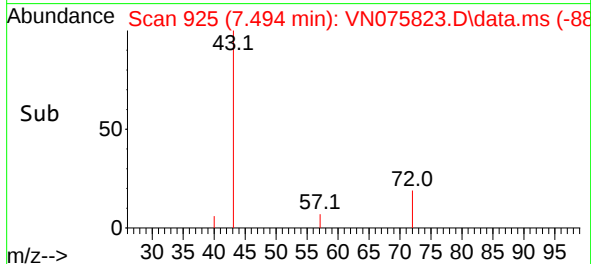
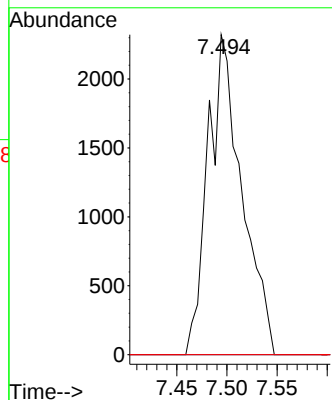


#37  
Ethyl Acetate  
Concen: 1.548 ug/l  
RT: 7.494 min Scan# 91  
Delta R.T. -0.071 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Instrument :  
MSVOA\_N  
ClientSampleId :

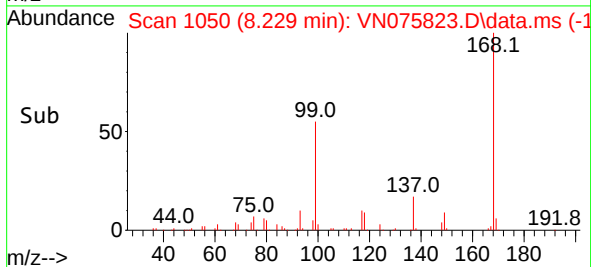
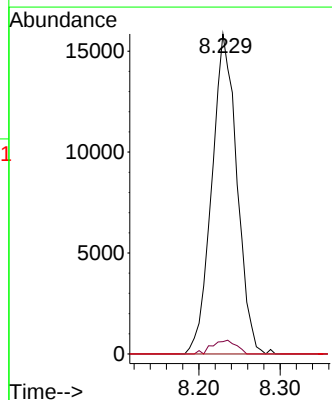
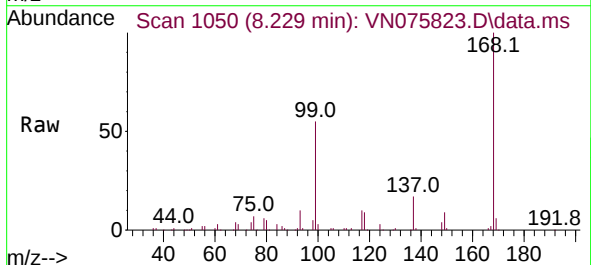


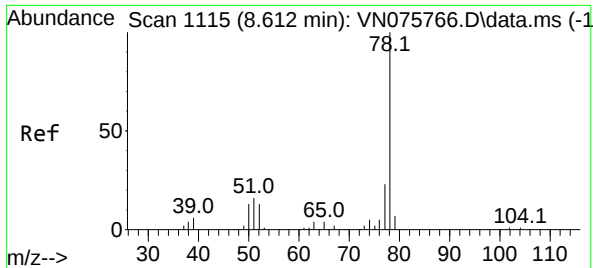
Tgt Ion: 43 Resp: 5459  
Ion Ratio Lower Upper  
43 100  
61 0.0 13.0 19.4#  
70 0.0 9.4 14.0#



#38  
Carbon Tetrachloride  
Concen: 6.950 ug/l  
RT: 8.229 min Scan# 1050  
Delta R.T. -0.135 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion: 117 Resp: 34139  
Ion Ratio Lower Upper  
117 100  
119 3.9 76.1 114.1#  
121 0.0 24.5 36.7#

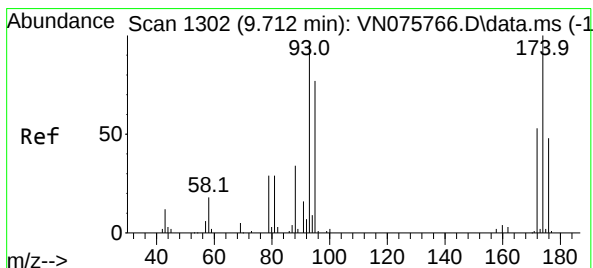
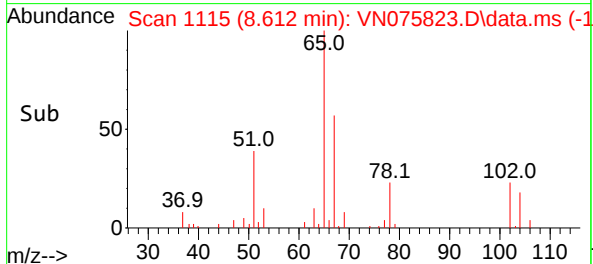
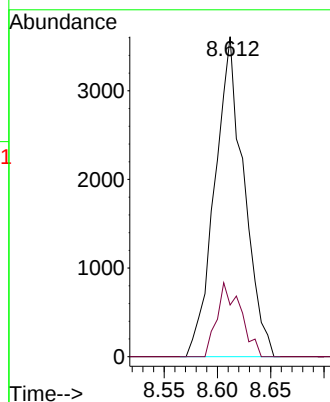
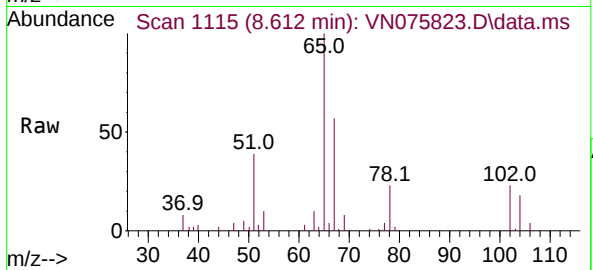




#40  
Benzene  
Concen: 0.506 ug/l  
RT: 8.612 min Scan# 1115  
Delta R.T. -0.000 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

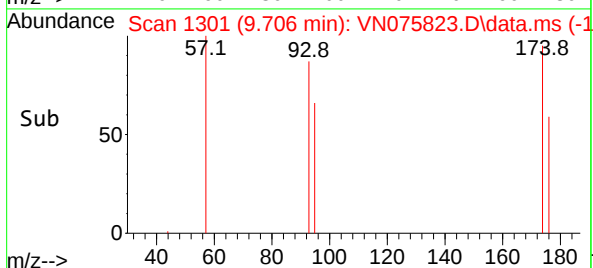
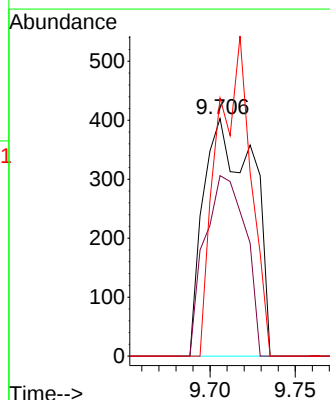
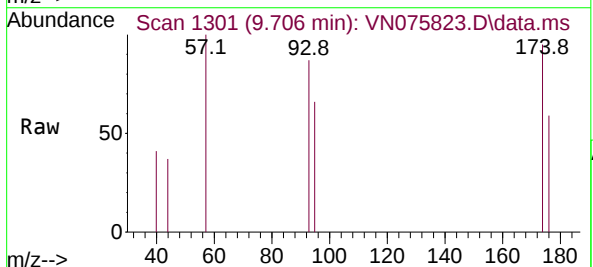
Instrument :  
MSVOA\_N  
ClientSampleId :

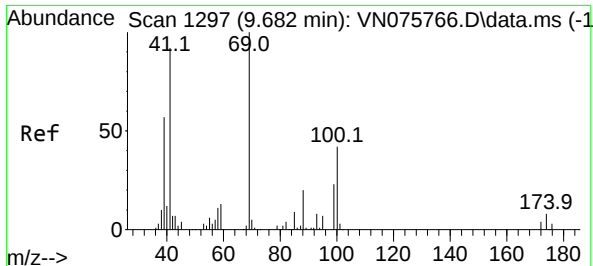
Tgt Ion: 78 Resp: 6853  
Ion Ratio Lower Upper  
78 100  
77 16.2 18.5 27.7#



#46  
Dibromomethane  
Concen: 0.329 ug/l  
RT: 9.706 min Scan# 1301  
Delta R.T. -0.006 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion: 93 Resp: 804  
Ion Ratio Lower Upper  
93 100  
95 63.3 65.2 97.8#  
174 92.3 82.4 123.6

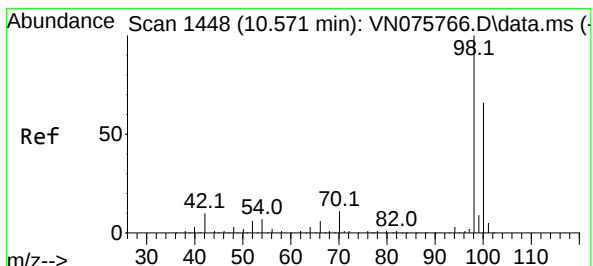
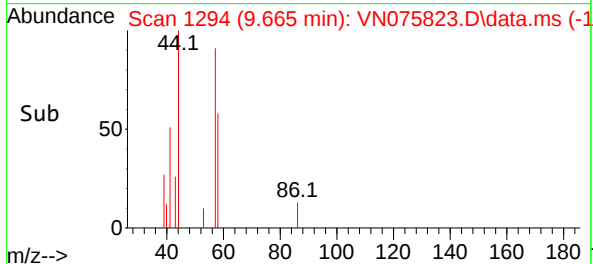
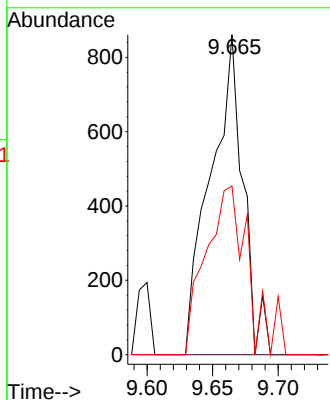
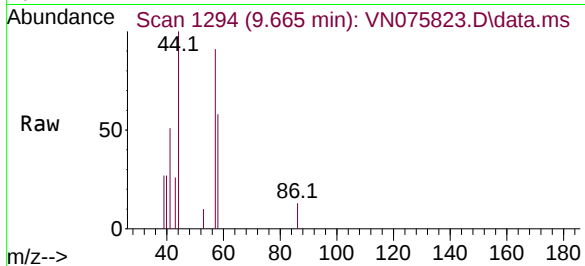




#48  
Methyl methacrylate  
Concen: 0.565 ug/l  
RT: 9.665 min Scan# 1294  
Delta R.T. -0.018 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

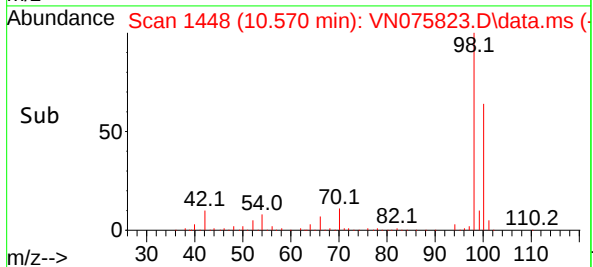
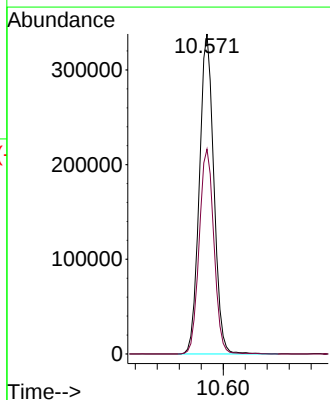
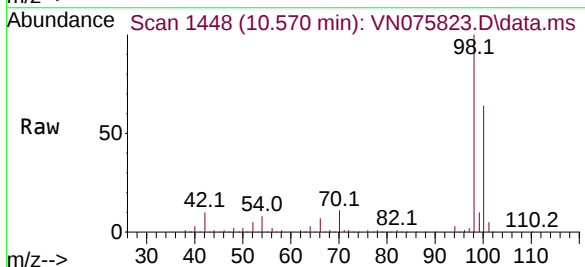
Instrument :  
MSVOA\_N  
ClientSampleId :

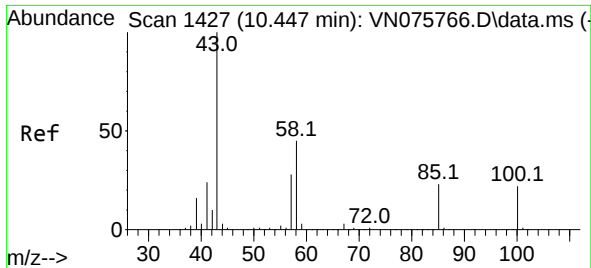
Tgt Ion: 41 Resp: 1479  
Ion Ratio Lower Upper  
41 100  
69 0.0 81.9 122.9#  
39 69.4 51.6 77.4



#50  
Toluene-d8  
Concen: 49.929 ug/l  
RT: 10.570 min Scan# 1448  
Delta R.T. -0.000 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion: 98 Resp: 616794  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.1 78.1

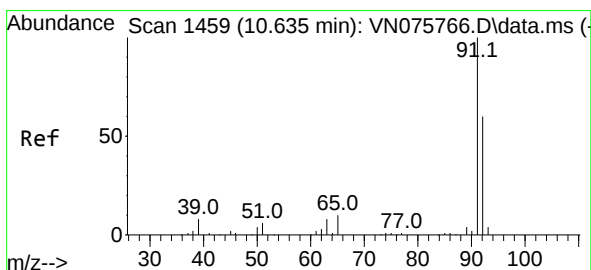
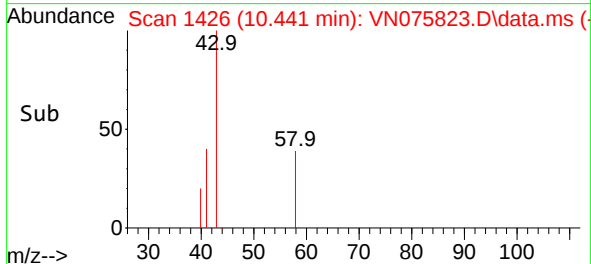
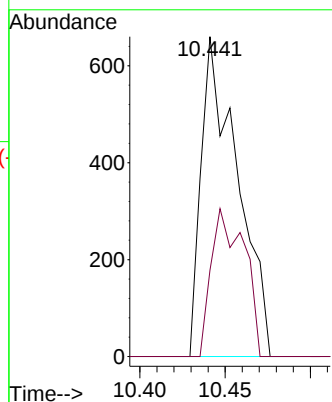
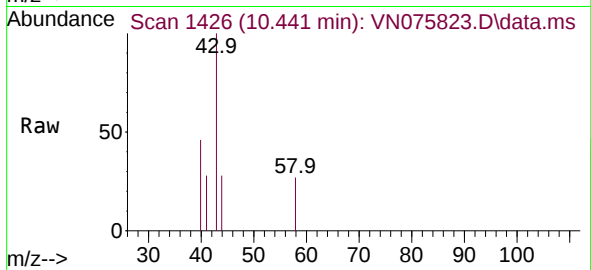




#51  
4-Methyl-2-Pentanone  
Concen: 0.278 ug/l  
RT: 10.441 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

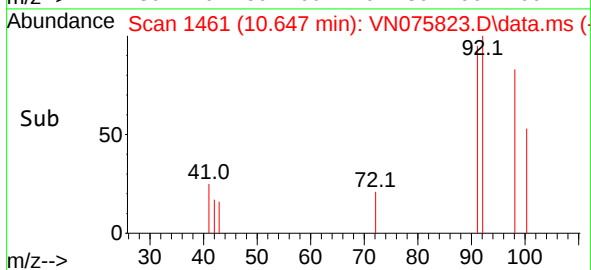
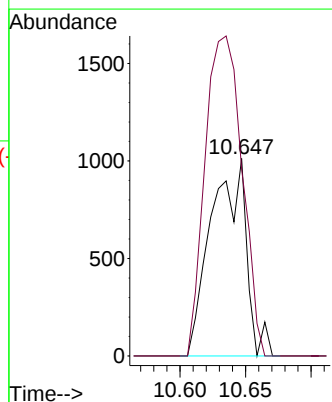
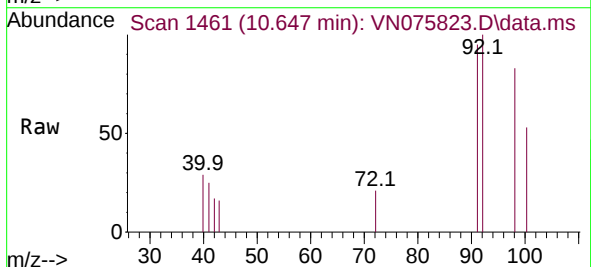
Instrument :  
MSVOA\_N  
ClientSampleId :

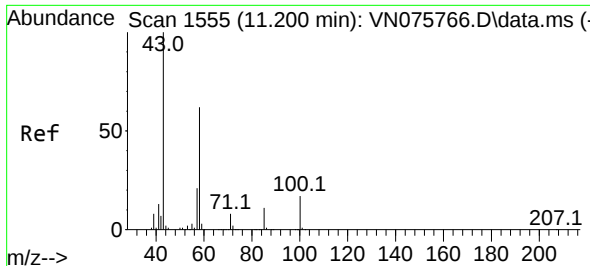
Tgt Ion: 43 Resp: 976  
Ion Ratio Lower Upper  
43 100  
58 42.1 35.5 53.3



#52  
Toluene  
Concen: 0.214 ug/l  
RT: 10.647 min Scan# 1461  
Delta R.T. 0.012 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion: 92 Resp: 1886  
Ion Ratio Lower Upper  
92 100  
91 170.4 137.3 205.9

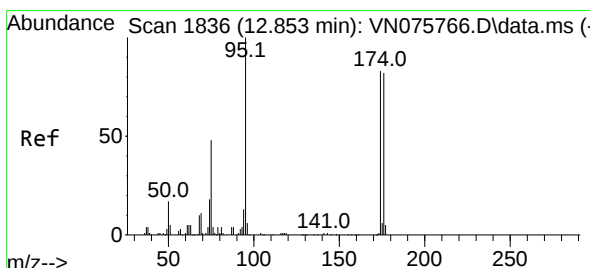
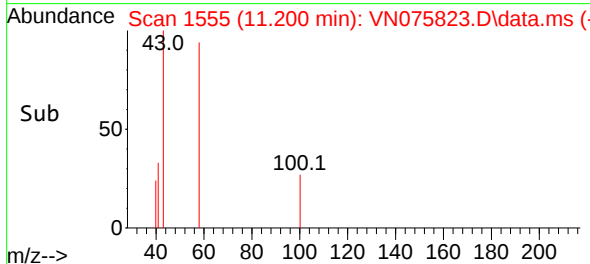
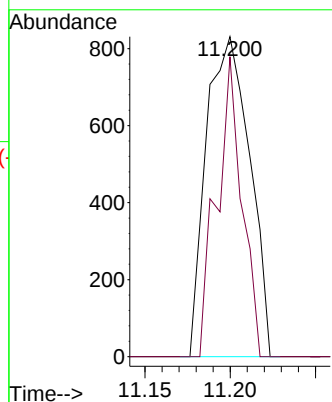
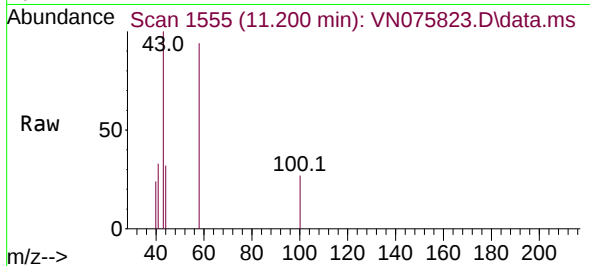




#59  
2-Hexanone  
Concen: 0.572 ug/l  
RT: 11.200 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

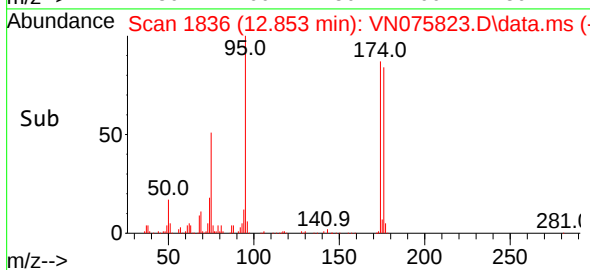
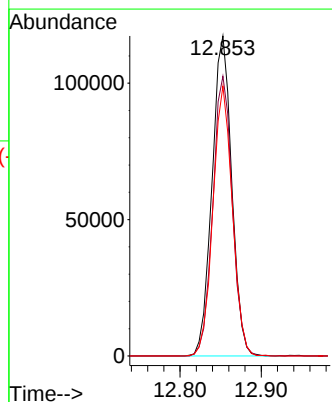
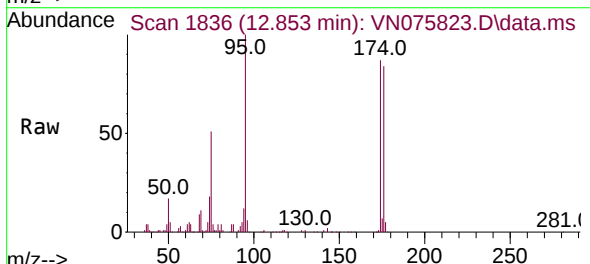
Instrument :  
MSVOA\_N  
ClientSampleId :

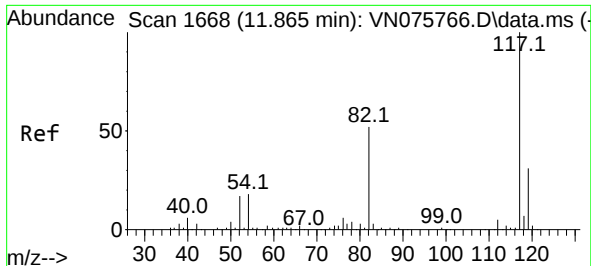
Tgt Ion: 43 Resp: 1468  
Ion Ratio Lower Upper  
43 100  
58 54.2 30.6 92.0



#62  
4-Bromofluorobenzene  
Concen: 48.312 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.000 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion: 95 Resp: 197670  
Ion Ratio Lower Upper  
95 100  
174 86.4 0.0 171.6  
176 83.1 0.0 169.2

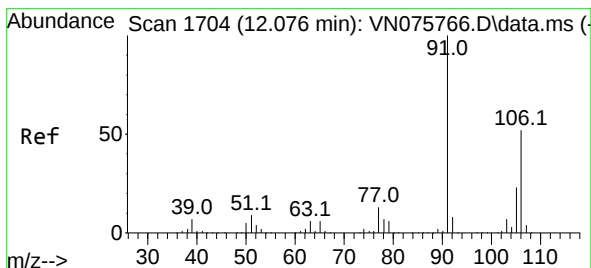
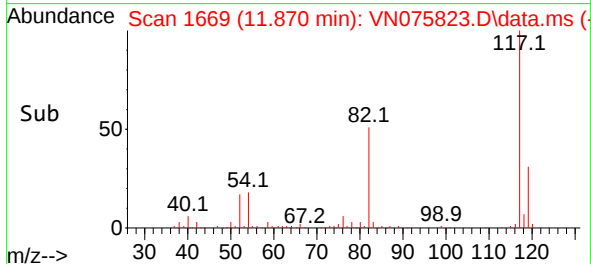
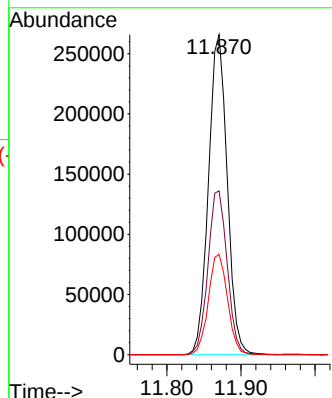
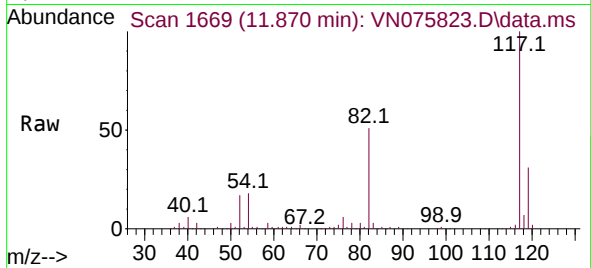




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 117  
Delta R.T. 0.006 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

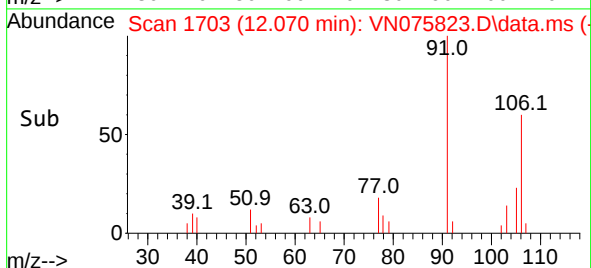
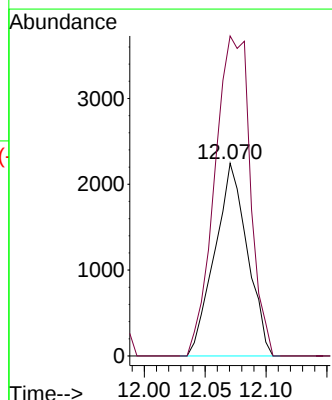
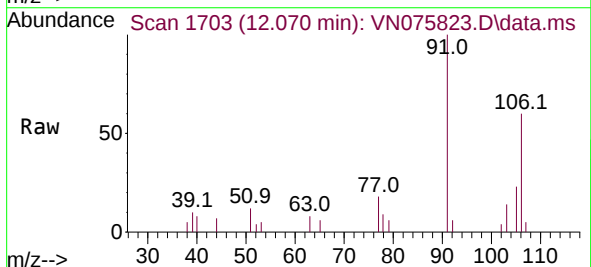
Instrument :  
MSVOA\_N  
ClientSampleId :

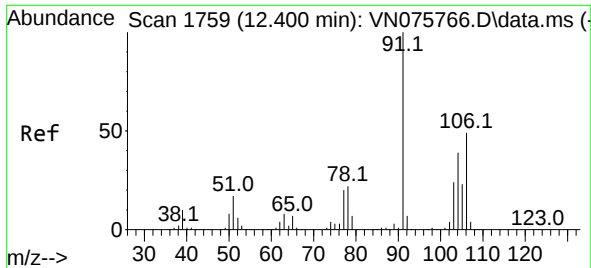
Tgt Ion:117 Resp: 466489  
Ion Ratio Lower Upper  
117 100  
82 51.2 41.3 61.9  
119 31.3 24.6 37.0



#68  
m/p-Xylenes  
Concen: 0.653 ug/l  
RT: 12.070 min Scan# 1703  
Delta R.T. -0.006 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion:106 Resp: 4177  
Ion Ratio Lower Upper  
106 100  
91 180.8 156.6 235.0

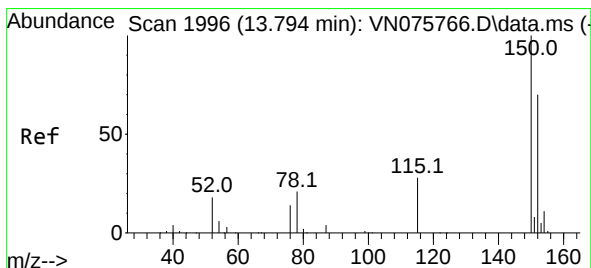
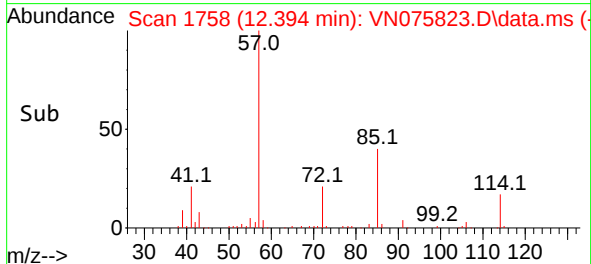
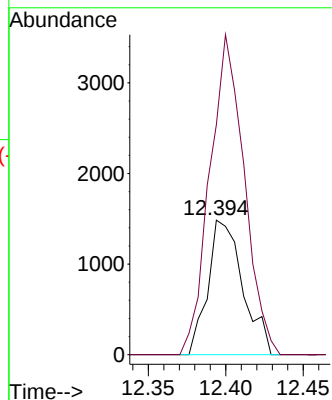
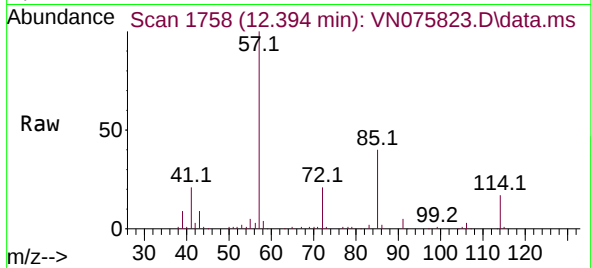




#69  
o-Xylene  
Concen: 0.367 ug/l  
RT: 12.394 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

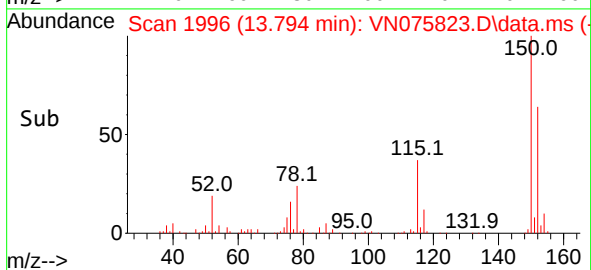
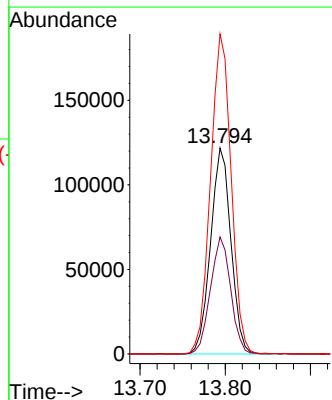
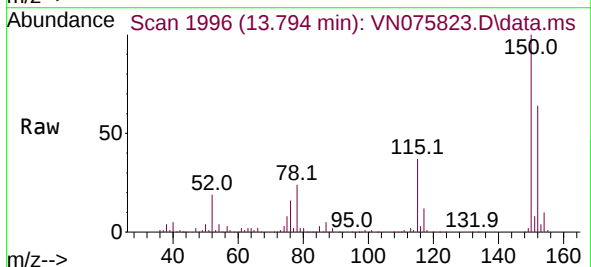
Instrument :  
MSVOA\_N  
ClientSampleId :

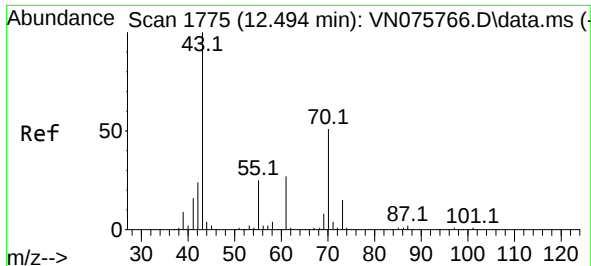
Tgt Ion:106 Resp: 2321  
Ion Ratio Lower Upper  
106 100  
91 235.3 103.8 311.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. -0.000 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion:152 Resp: 201864  
Ion Ratio Lower Upper  
152 100  
115 56.5 29.1 87.4  
150 157.5 0.0 347.0

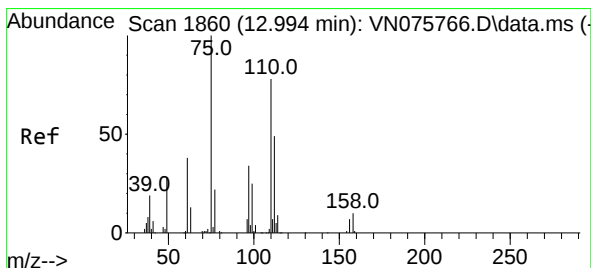
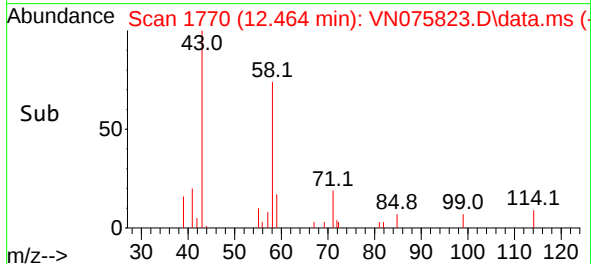
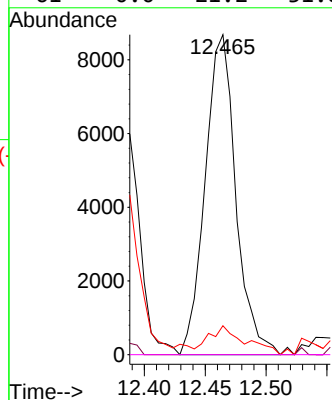
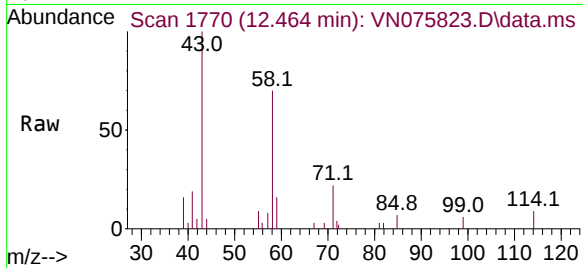




#74  
N-amy1 acetate  
Concen: 3.558 ug/l  
RT: 12.464 min Scan# 11  
Delta R.T. -0.030 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

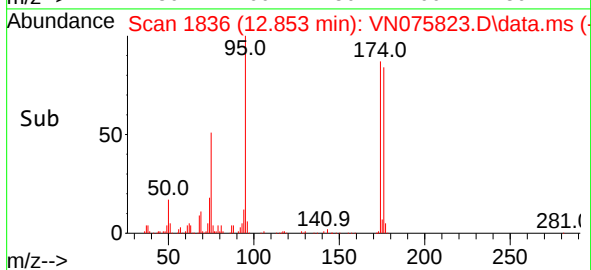
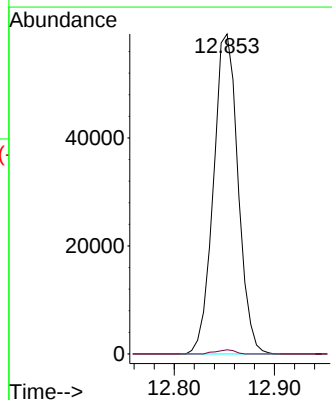
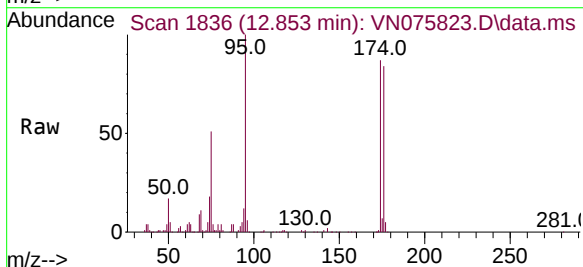
Instrument :  
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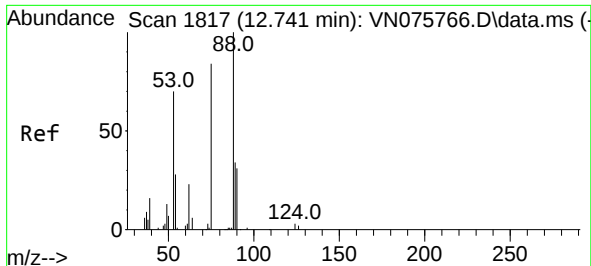
Tgt Ion: 43 Resp: 15226  
Ion Ratio Lower Upper  
43 100  
70 0.0 41.4 62.0#  
55 10.6 21.3 31.9#  
61 0.0 21.2 31.8#



#76  
1,2,3-Trichloropropane  
Concen: 24.788 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion: 75 Resp: 100865  
Ion Ratio Lower Upper  
75 100  
77 1.0 82.6 247.8#

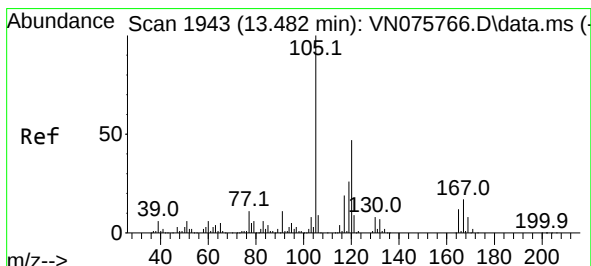
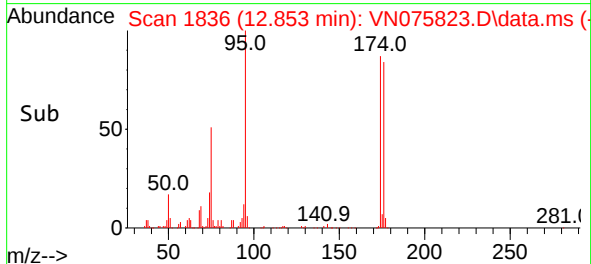
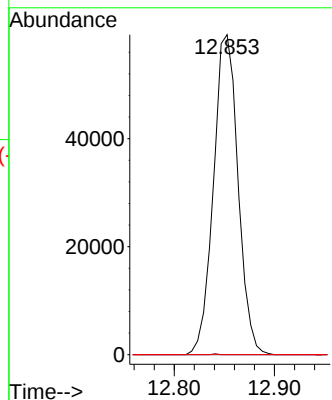
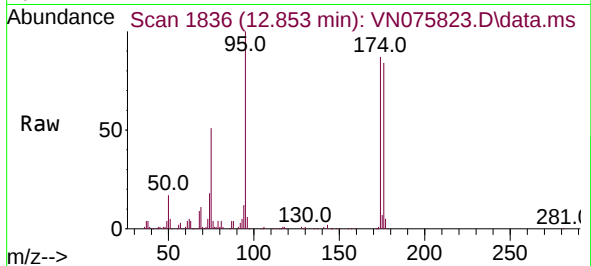




#81  
trans-1,4-Dichloro-2-butene  
Concen: 89.225 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.112 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

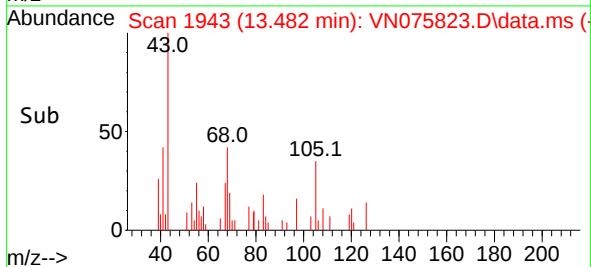
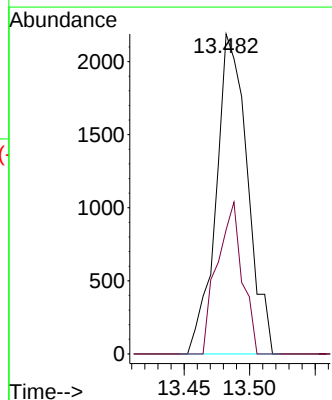
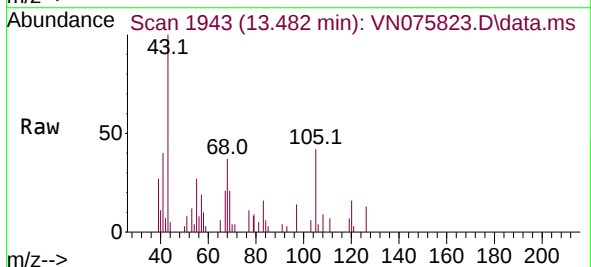
Instrument :  
MSVOA\_N  
ClientSampleId :

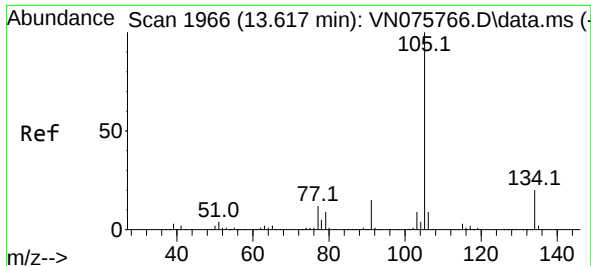
Tgt Ion: 75 Resp: 100865  
Ion Ratio Lower Upper  
75 100  
53 0.1 73.8 110.6#  
89 0.0 39.5 59.3#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.300 ug/l  
RT: 13.482 min Scan# 1943  
Delta R.T. -0.000 min  
Lab File: VN075823.D  
Acq: 15 Dec 2022 17:23

Tgt Ion:105 Resp: 3632  
Ion Ratio Lower Upper  
105 100  
120 37.9 23.3 69.8

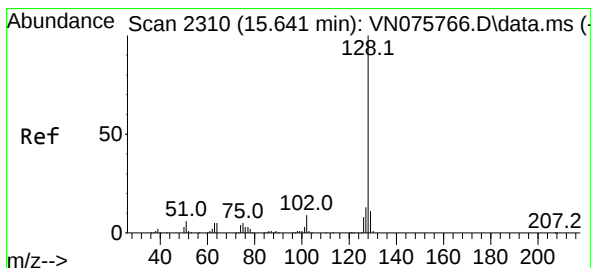
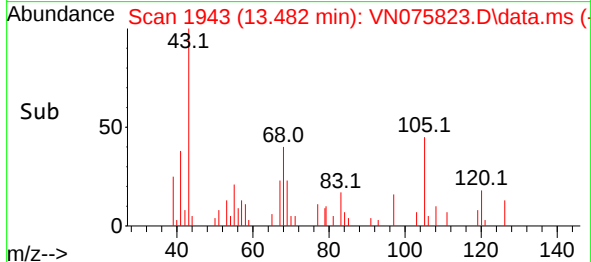
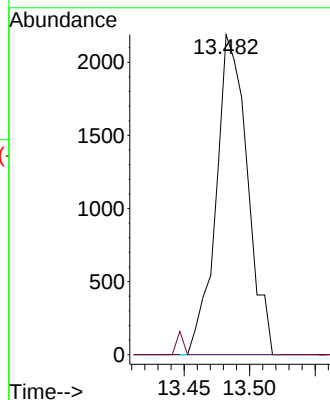
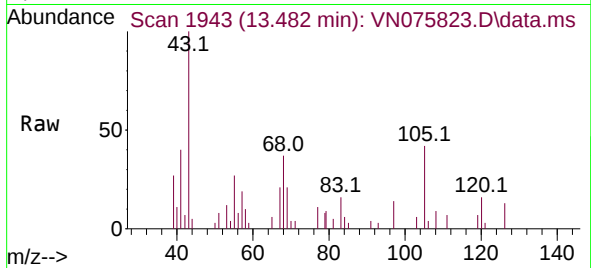




#85  
 sec-Butylbenzene  
 Concen: 0.244 ug/l  
 RT: 13.482 min Scan# 1943  
 Delta R.T. -0.135 min  
 Lab File: VN075823.D  
 Acq: 15 Dec 2022 17:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tgt Ion:105 Resp: 3632  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.1 30.1#



#95  
 Naphthalene  
 Concen: 3.439 ug/l  
 RT: 15.641 min Scan# 2310  
 Delta R.T. -0.000 min  
 Lab File: VN075823.D  
 Acq: 15 Dec 2022 17:23

Tgt Ion:128 Resp: 14489  
 Ion Ratio Lower Upper  
 128 100  
 127 13.6 10.4 15.6  
 129 9.8 8.7 13.1

