

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081722\  
 Data File : VN073980.D  
 Acq On : 17 Aug 2022 16:47  
 Operator : JC\MD  
 Sample : N4204-27 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 18 00:47:21 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 16 00:45:21 2022  
 Response via : Initial Calibration

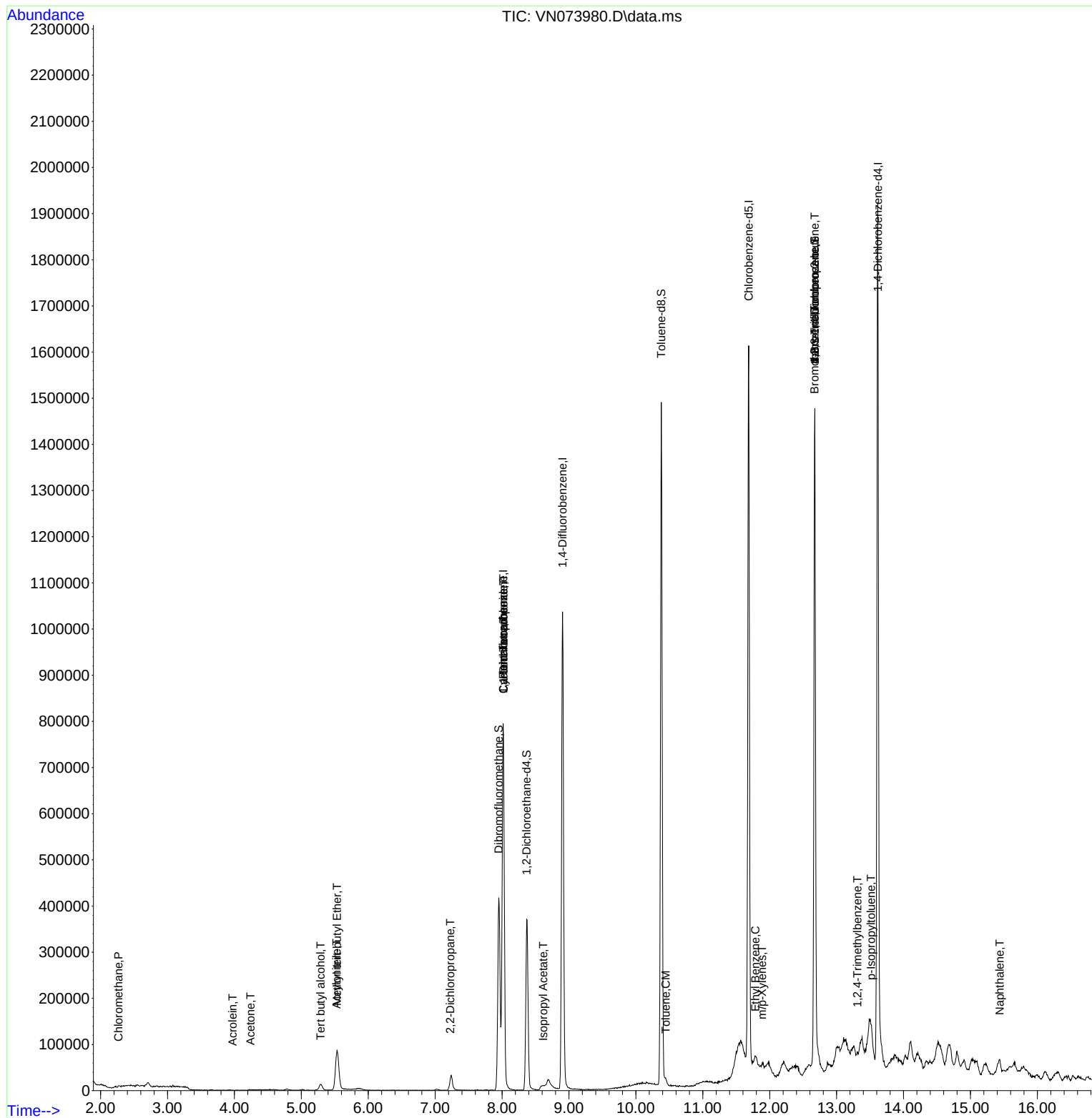
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|--------|-----------|
| -----                         |        |       |          |           |        |           |
| Internal Standards            |        |       |          |           |        |           |
| 1) Pentafluorobenzene         | 8.016  | 168   | 681567   | 50.000    | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene       | 8.904  | 114   | 991484   | 50.000    | ug/l   | 0.00      |
| 63) Chlorobenzene-d5          | 11.686 | 117   | 967245   | 50.000    | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 13.616 | 152   | 545320   | 50.000    | ug/l   | 0.00      |
| System Monitoring Compounds   |        |       |          |           |        |           |
| 33) 1,2-Dichloroethane-d4     | 8.369  | 65    | 319176   | 48.080    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 96.160%   |
| 35) Dibromofluoromethane      | 7.951  | 113   | 306974   | 52.353    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 104.700%  |
| 50) Toluene-d8                | 10.380 | 98    | 1059925  | 46.674    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 93.340%   |
| 62) 4-Bromofluorobenzene      | 12.674 | 95    | 467282   | 62.001    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 124.000%# |
| Target Compounds              |        |       |          |           |        |           |
|                               |        |       |          |           | Qvalue |           |
| 3) Chloromethane              | 2.269  | 50    | 1298     | 0.216     | ug/l # | 56        |
| 11) Tert butyl alcohol        | 5.287  | 59    | 26252    | 17.679    | ug/l   | 97        |
| 13) Acrolein                  | 3.975  | 56    | 253      | 0.243     | ug/l   | 91        |
| 15) Acrylonitrile             | 5.528  | 53    | 1118     | 0.308     | ug/l # | 15        |
| 16) Acetone                   | 4.240  | 43    | 2351     | 0.751     | ug/l # | 80        |
| 18) Methyl Acetate            | 4.781  | 43    | 5513     | Below Cal |        | 95        |
| 19) Methyl tert-butyl Ether   | 5.534  | 73    | 150697   | 7.779     | ug/l   | 98        |
| 26) 2,2-Dichloropropane       | 7.228  | 77    | 2576     | 0.261     | ug/l # | 53        |
| 31) Cyclohexane               | 8.022  | 56    | 10508    | 1.135     | ug/l # | 13        |
| 36) 1,1-Dichloropropene       | 8.022  | 75    | 42497    | 5.218     | ug/l # | 49        |
| 38) Carbon Tetrachloride      | 8.022  | 117   | 59593    | 6.402     | ug/l # | 16        |
| 43) Isopropyl Acetate         | 8.616  | 43    | 10788    | 0.768     | ug/l # | 53        |
| 52) Toluene                   | 10.445 | 92    | 5123     | 0.291     | ug/l   | 95        |
| 67) Ethyl Benzene             | 11.786 | 91    | 9679     | 0.283     | ug/l   | 94        |
| 68) m/p-Xylenes               | 11.886 | 106   | 4120     | 0.297     | ug/l   | 93        |
| 76) 1,2,3-Trichloropropane    | 12.674 | 75    | 229356   | 20.235    | ug/l # | 1         |
| 77) Bromobenzene              | 12.669 | 156   | 3166     | 0.295     | ug/l # | 56        |
| 81) trans-1,4-Dichloro-2-b... | 12.674 | 75    | 229356   | 57.553    | ug/l # | 11        |
| 84) 1,2,4-Trimethylbenzene    | 13.310 | 105   | 9526     | 0.295     | ug/l   | 71        |
| 86) p-Isopropyltoluene        | 13.516 | 119   | 8412     | 0.256     | ug/l # | 53        |
| 95) Naphthalene               | 15.439 | 128   | 18738    | 0.491     | ug/l # | 15        |
| -----                         |        |       |          |           |        |           |

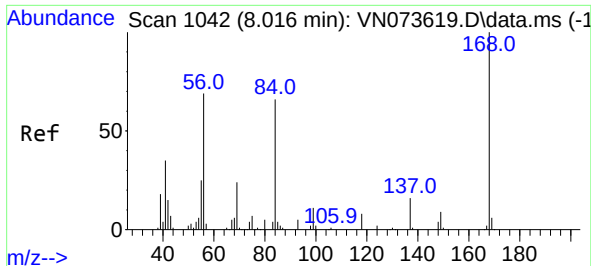
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : N4204-27 10X  
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

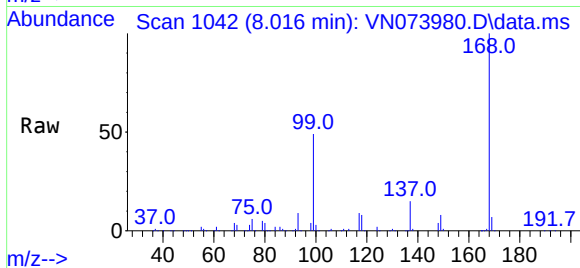
Quant Time: Aug 18 00:47:21 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 16 00:45:21 2022  
Response via : Initial Calibration



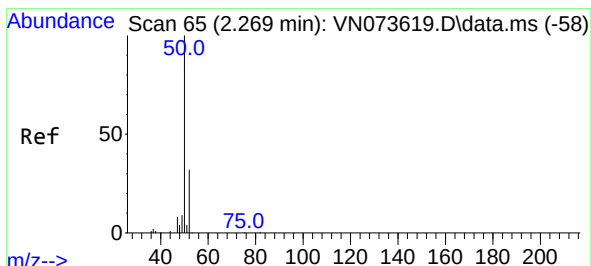
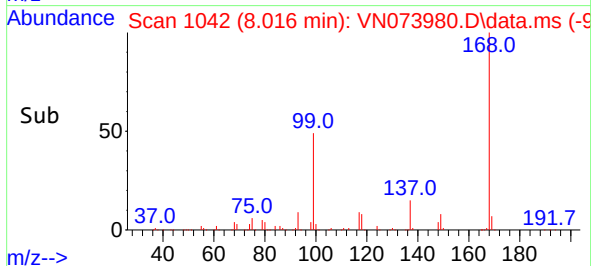
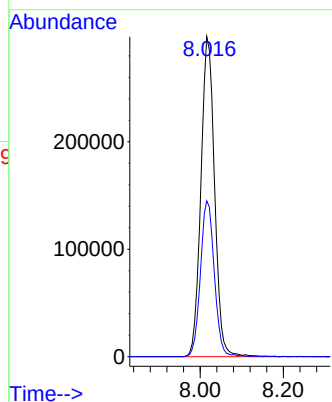


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Instrument :  
MSVOA\_N  
ClientSampleId :

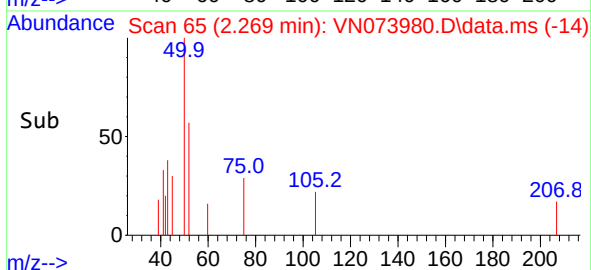
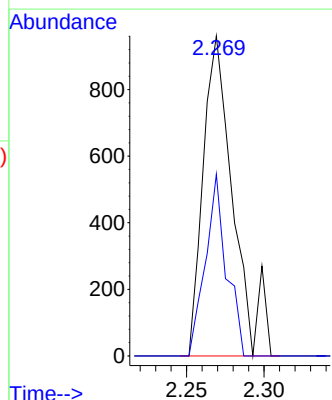
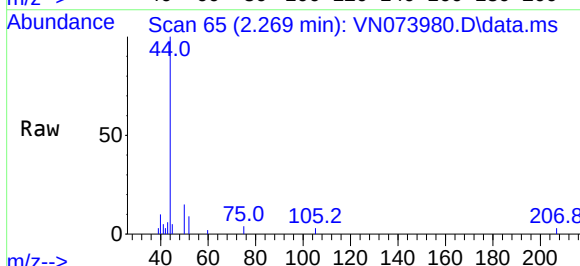


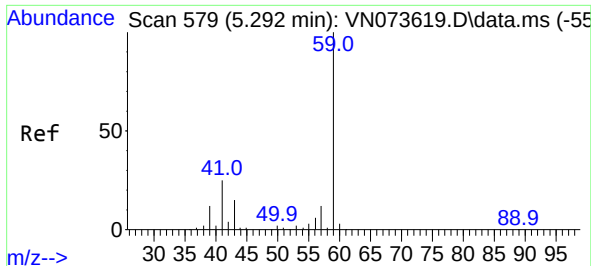
Tgt Ion:168 Resp: 681567  
Ion Ratio Lower Upper  
168 100  
99 48.7 42.3 63.5



#3  
Chloromethane  
Concen: 0.216 ug/l  
RT: 2.269 min Scan# 65  
Delta R.T. 0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

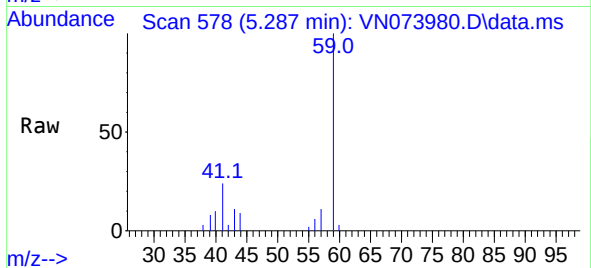
Tgt Ion: 50 Resp: 1298  
Ion Ratio Lower Upper  
50 100  
52 56.8 25.7 38.5#



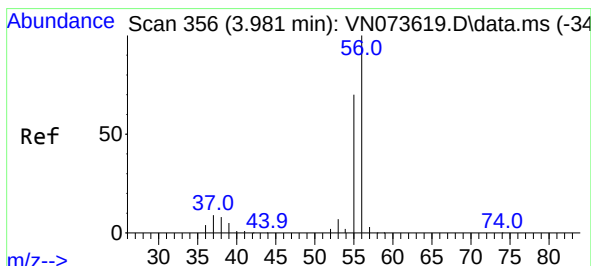
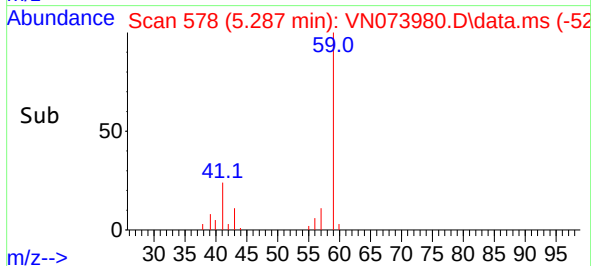
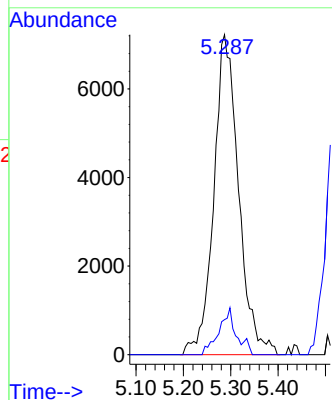


#11  
Tert butyl alcohol  
Concen: 17.679 ug/l  
RT: 5.287 min Scan# 51  
Delta R.T. -0.005 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Instrument :  
MSVOA\_N  
ClientSampleId :

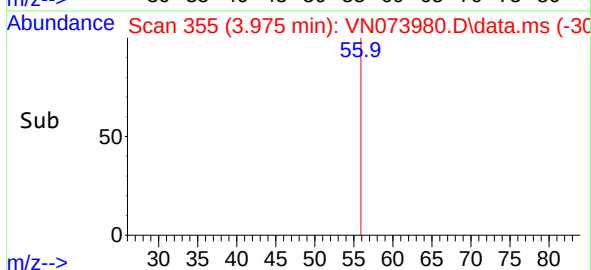
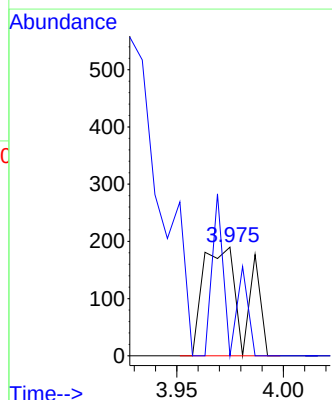
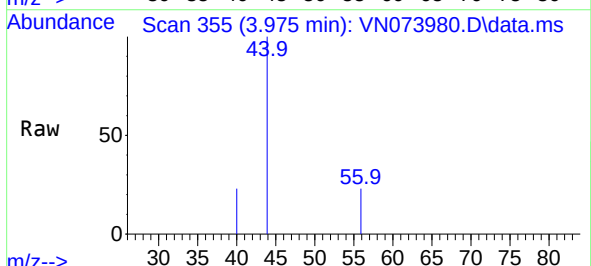


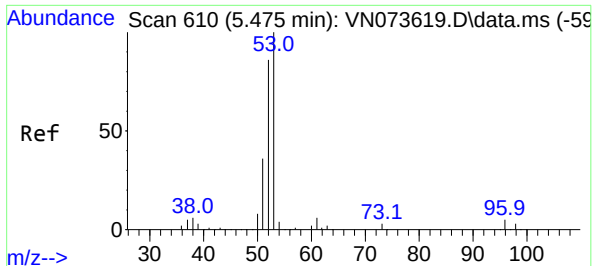
Tgt Ion: 59 Resp: 26252  
Ion Ratio Lower Upper  
59 100  
57 9.2 8.3 12.5



#13  
Acrolein  
Concen: 0.243 ug/l  
RT: 3.975 min Scan# 355  
Delta R.T. -0.006 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

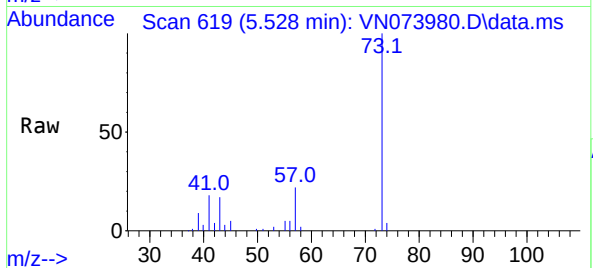
Tgt Ion: 56 Resp: 253  
Ion Ratio Lower Upper  
56 100  
55 61.3 54.8 82.2



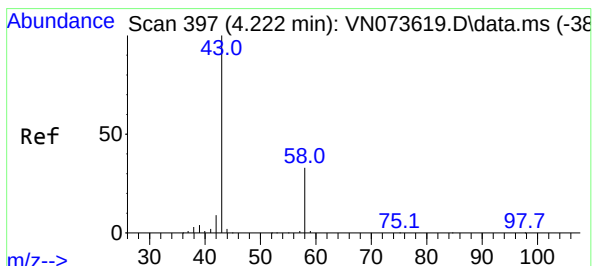
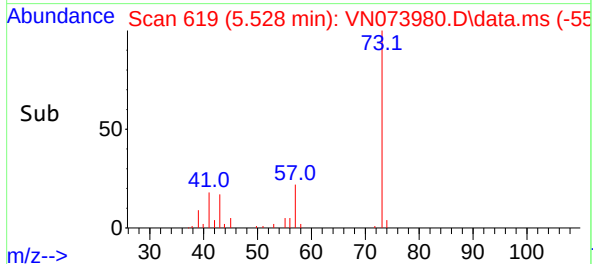
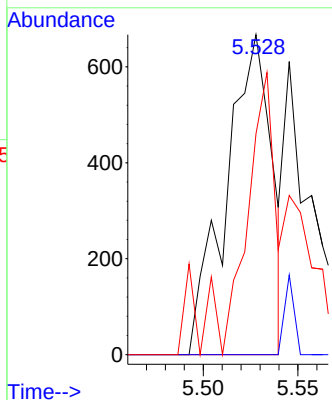


#15  
Acrylonitrile  
Concen: 0.308 ug/l  
RT: 5.528 min Scan# 610  
Delta R.T. 0.053 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Instrument :  
MSVOA\_N  
ClientSampleId :

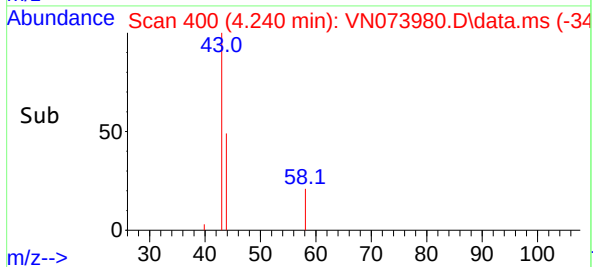
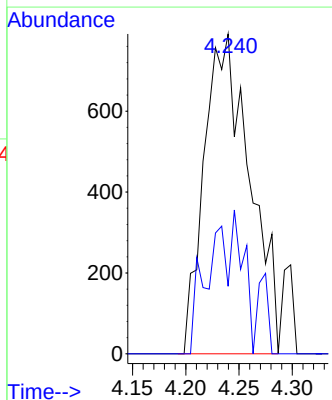
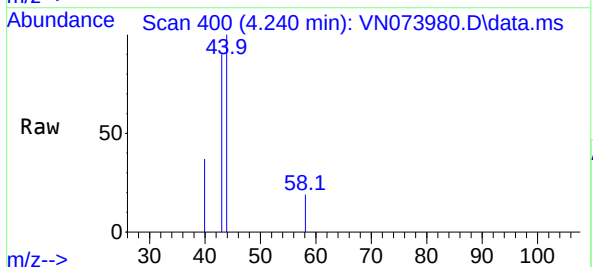


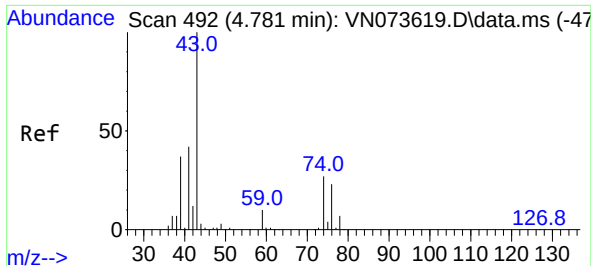
Tgt Ion: 53 Resp: 1118  
Ion Ratio Lower Upper  
53 100  
52 5.3 66.4 99.6#  
51 82.8 28.5 42.7#



#16  
Acetone  
Concen: 0.751 ug/l  
RT: 4.240 min Scan# 400  
Delta R.T. 0.018 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Tgt Ion: 43 Resp: 2351  
Ion Ratio Lower Upper  
43 100  
58 21.1 26.0 39.0#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.781 min Scan# 492

Delta R.T. -0.000 min

Lab File: VN073980.D

Acq: 17 Aug 2022 16:47

Instrument :

MSVOA\_N

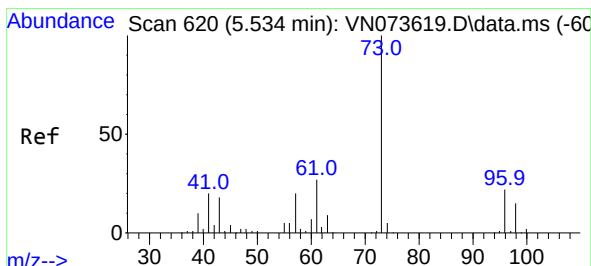
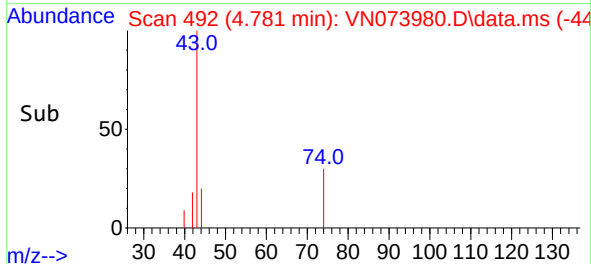
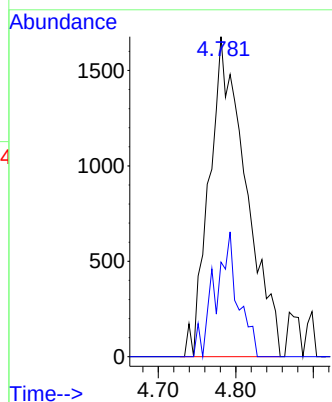
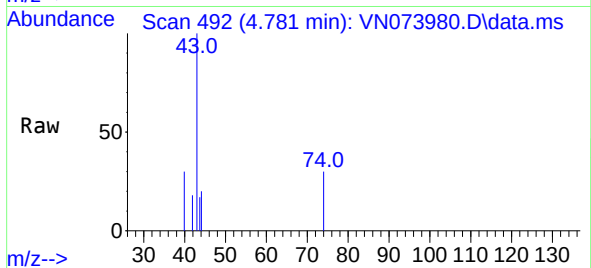
ClientSampleId :

Tgt Ion: 43 Resp: 5513

Ion Ratio Lower Upper

43 100

74 24.4 21.6 32.4



#19

Methyl tert-butyl Ether

Concen: 7.779 ug/l

RT: 5.534 min Scan# 620

Delta R.T. -0.000 min

Lab File: VN073980.D

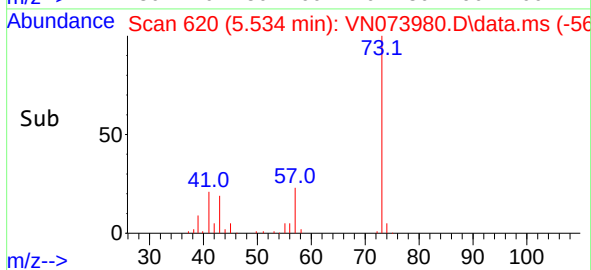
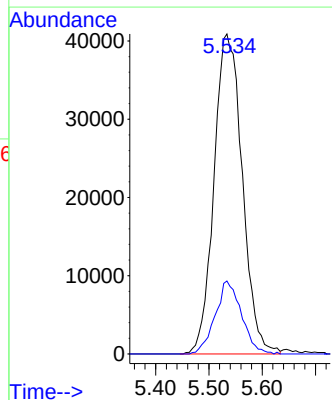
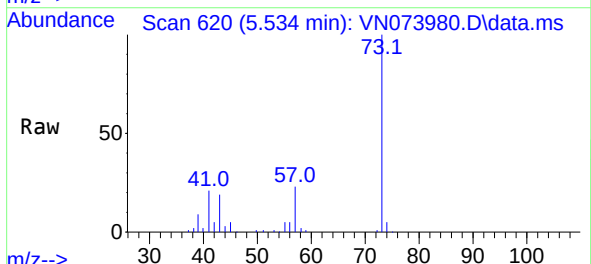
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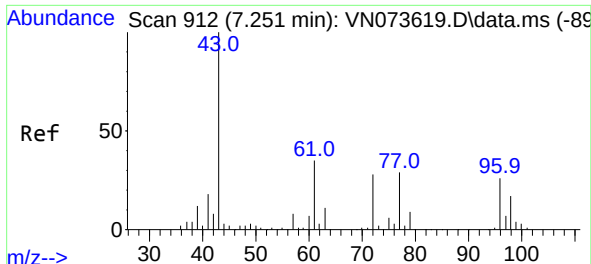
Tgt Ion: 73 Resp: 150697

Ion Ratio Lower Upper

73 100

57 22.8 17.6 26.4

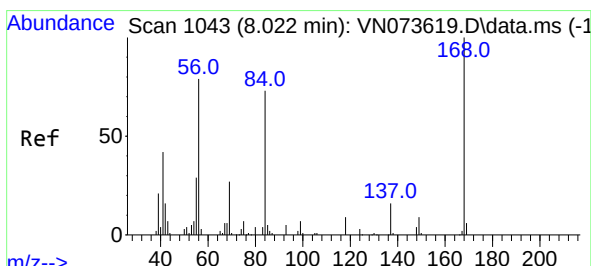
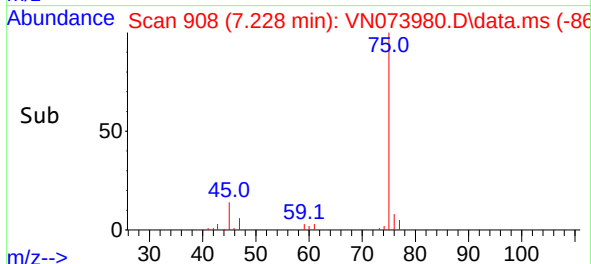
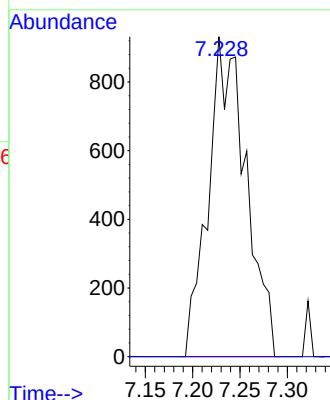
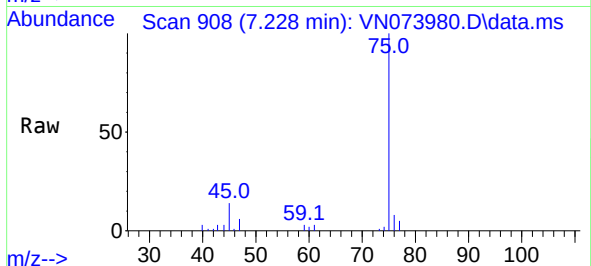




#26  
2,2-Dichloropropane  
Concen: 0.261 ug/l  
RT: 7.228 min Scan# 908  
Delta R.T. -0.023 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

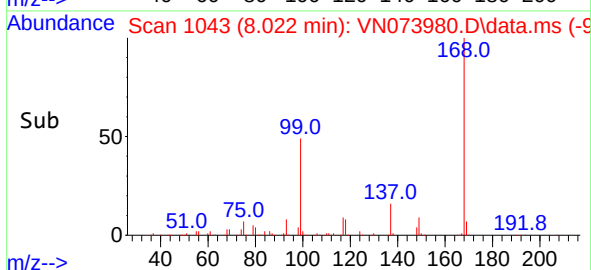
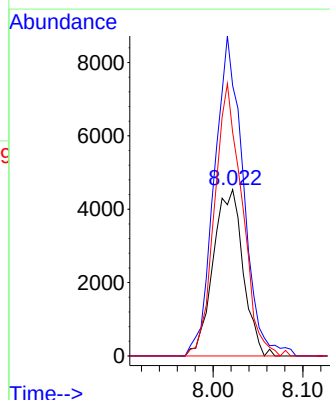
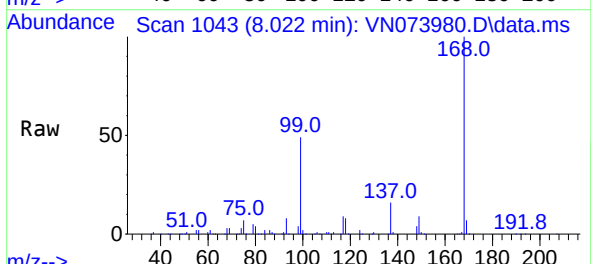
Instrument :  
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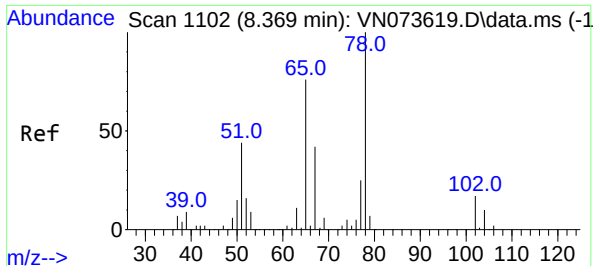
Tgt Ion: 77 Resp: 2576  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.4 34.2#



#31  
Cyclohexane  
Concen: 1.135 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. -0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Tgt Ion: 56 Resp: 10508  
Ion Ratio Lower Upper  
56 100  
69 162.4 27.8 41.8#  
84 134.3 76.9 115.3#

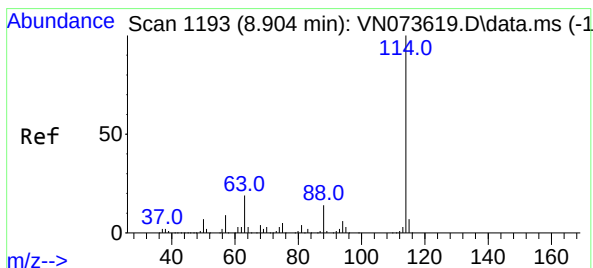
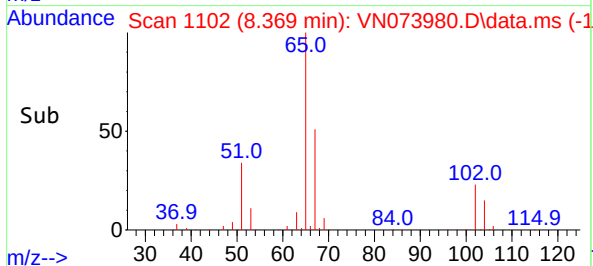
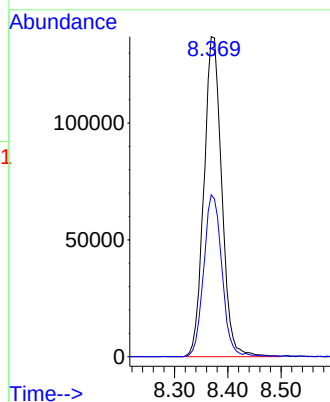
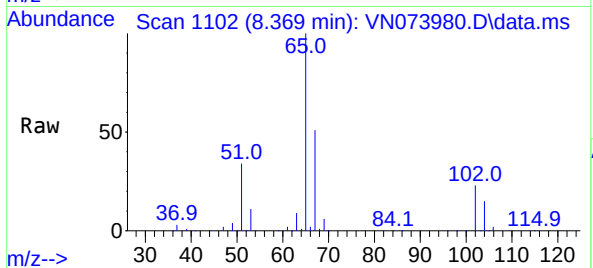




#33  
1,2-Dichloroethane-d4  
Concen: 48.080 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. -0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

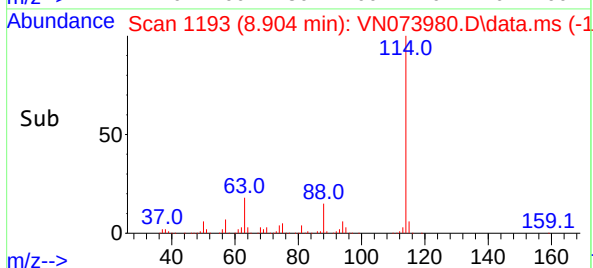
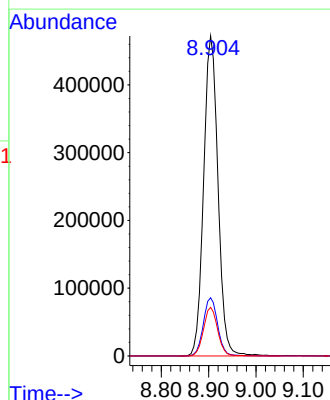
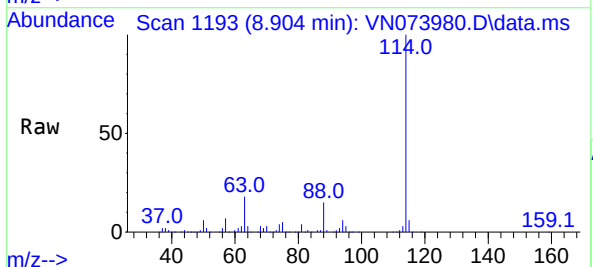
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 65 Resp: 319176  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 104.8

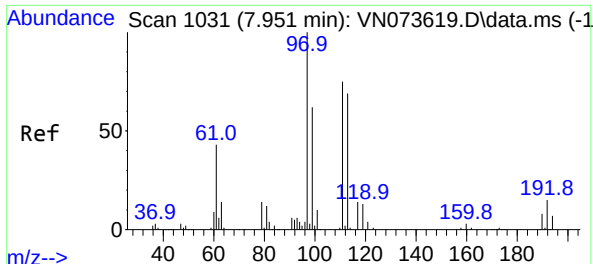


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.904 min Scan# 1193  
Delta R.T. 0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Tgt Ion: 114 Resp: 991484  
Ion Ratio Lower Upper  
114 100  
63 18.2 0.0 40.0  
88 15.2 0.0 32.6

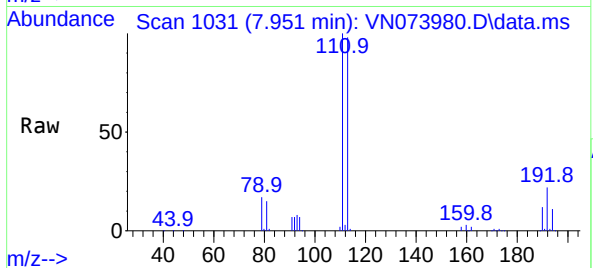




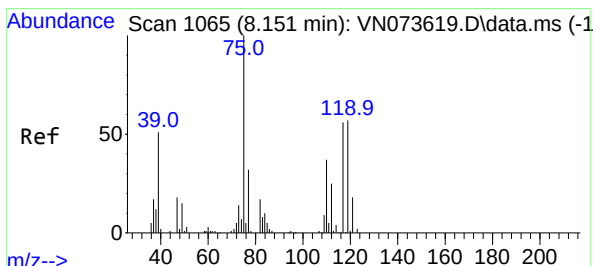
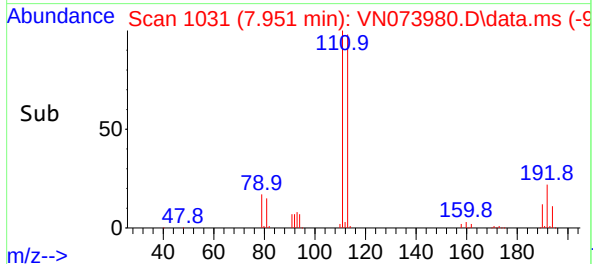
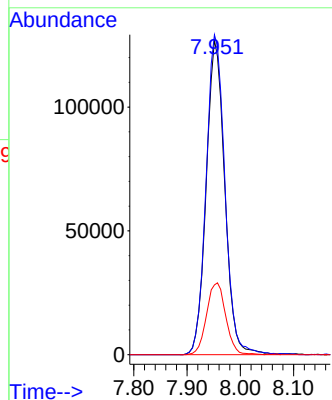


#35  
Dibromofluoromethane  
Concen: 52.353 ug/l  
RT: 7.951 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Instrument :  
MSVOA\_N  
ClientSampleId :

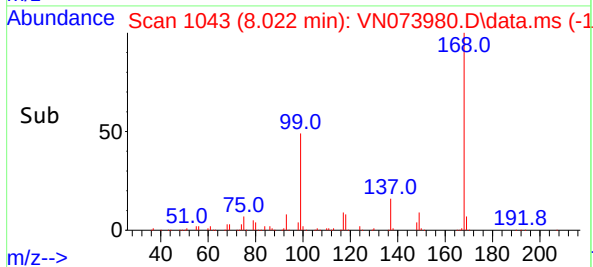
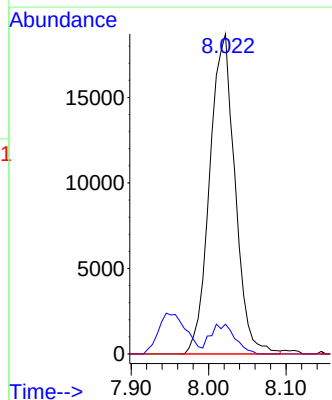
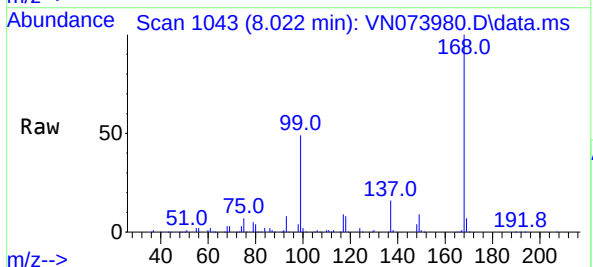


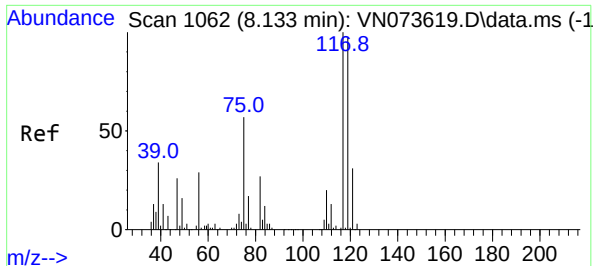
Tgt Ion:113 Resp: 306974  
Ion Ratio Lower Upper  
113 100  
111 103.4 81.4 122.0  
192 23.7 17.0 25.6



#36  
1,1-Dichloropropene  
Concen: 5.218 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. -0.129 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

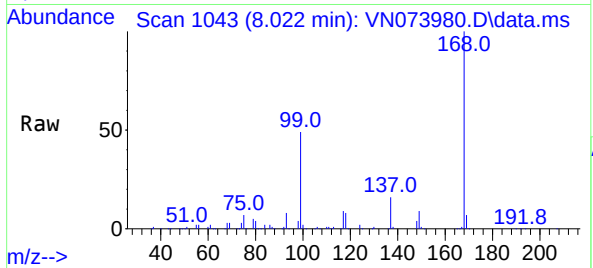
Tgt Ion: 75 Resp: 42497  
Ion Ratio Lower Upper  
75 100  
110 9.0 18.3 54.8#  
77 0.0 25.1 37.7#



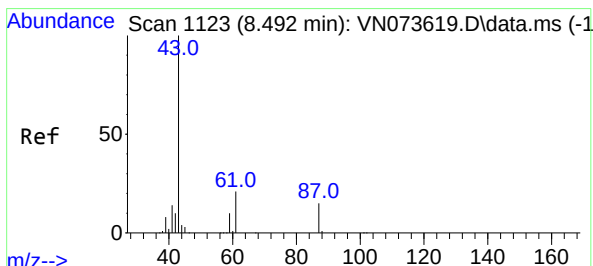
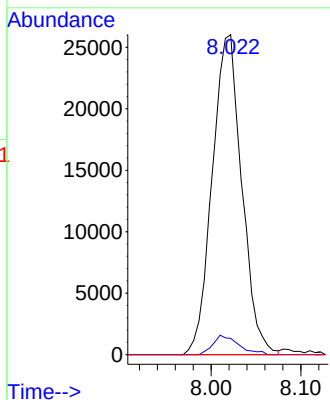
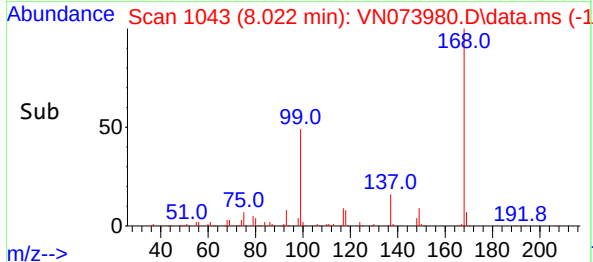


#38  
Carbon Tetrachloride  
Concen: 6.402 ug/l  
RT: 8.022 min Scan# 1144  
Delta R.T. -0.111 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

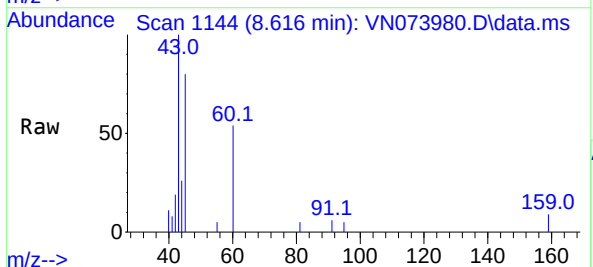
Instrument :  
MSVOA\_N  
ClientSampleId :



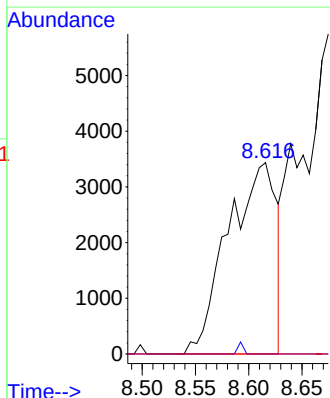
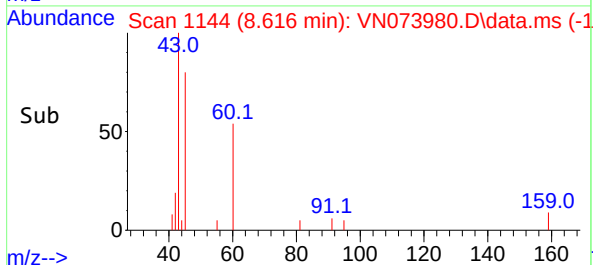
Tgt Ion:117 Resp: 59593  
Ion Ratio Lower Upper  
117 100  
119 5.1 75.8 113.8#  
121 0.0 24.6 37.0#

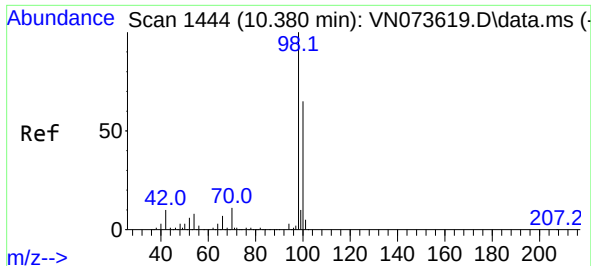


#43  
Isopropyl Acetate  
Concen: 0.768 ug/l  
RT: 8.616 min Scan# 1144  
Delta R.T. 0.124 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47



Tgt Ion: 43 Resp: 10788  
Ion Ratio Lower Upper  
43 100  
61 0.0 21.9 32.9#  
87 0.0 12.0 18.0#

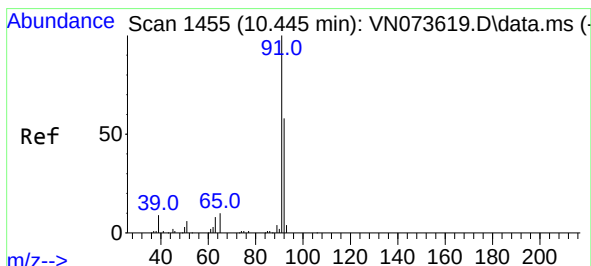
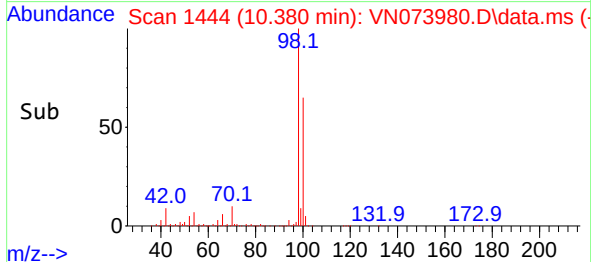
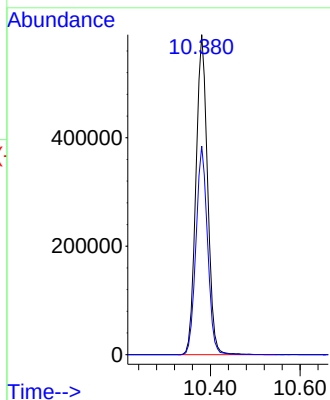
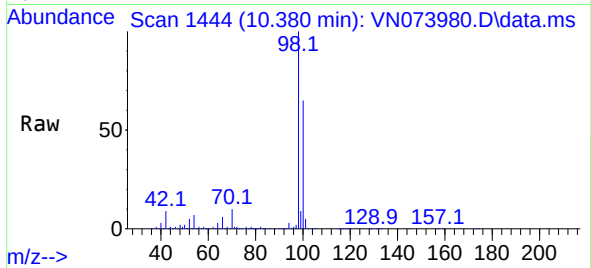




#50  
Toluene-d8  
Concen: 46.674 ug/l  
RT: 10.380 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

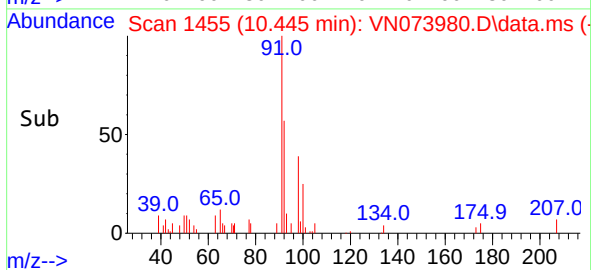
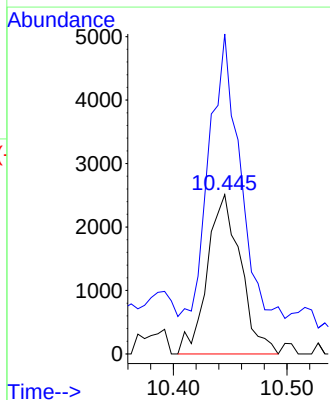
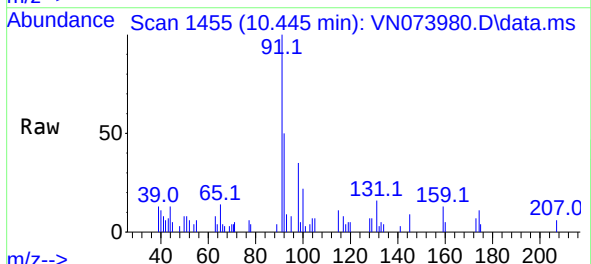
Instrument :  
MSVOA\_N  
ClientSampleId :

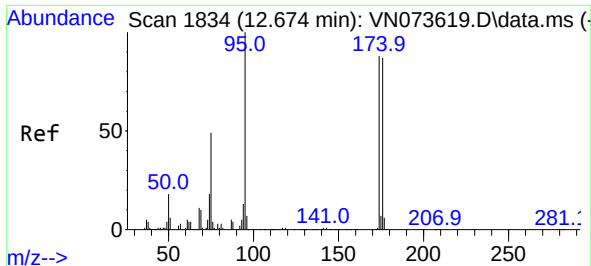
Tgt Ion: 98 Resp: 1059925  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.6 78.8



#52  
Toluene  
Concen: 0.291 ug/l  
RT: 10.445 min Scan# 1455  
Delta R.T. 0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Tgt Ion: 92 Resp: 5123  
Ion Ratio Lower Upper  
92 100  
91 180.4 138.6 207.8

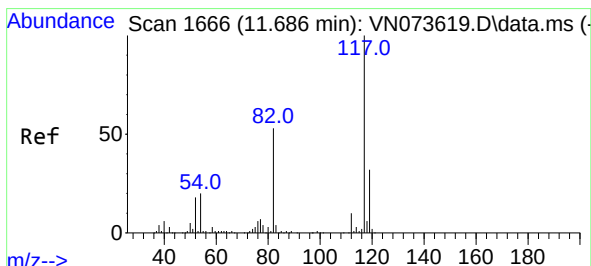
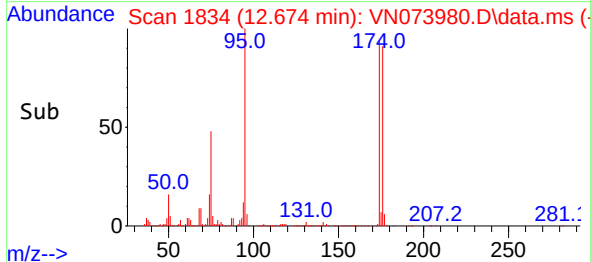
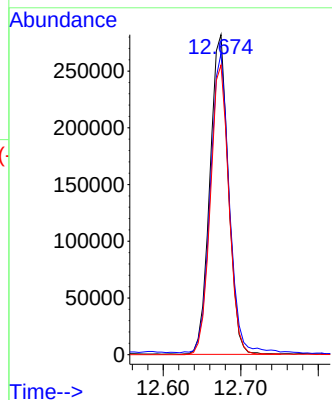
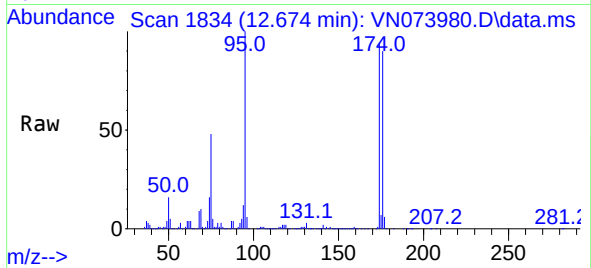




#62  
4-Bromofluorobenzene  
Concen: 62.001 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

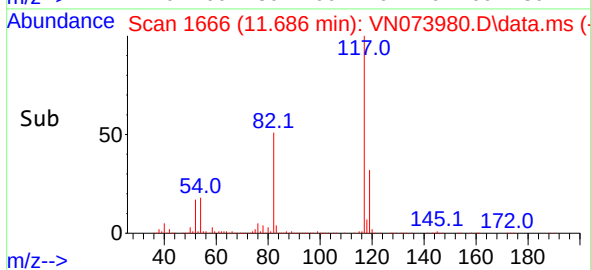
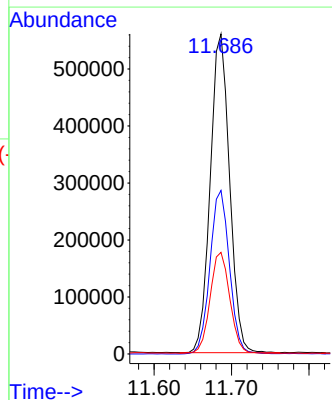
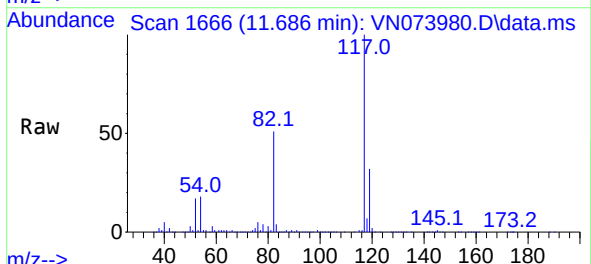
Instrument :  
MSVOA\_N  
ClientSampleId :

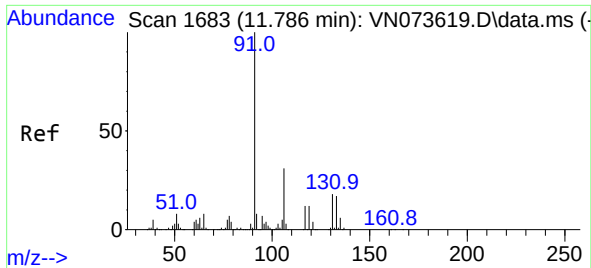
Tgt Ion: 95 Resp: 467282  
Ion Ratio Lower Upper  
95 100  
174 97.4 0.0 167.6  
176 90.5 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Tgt Ion: 117 Resp: 967245  
Ion Ratio Lower Upper  
117 100  
82 51.3 44.2 66.2  
119 31.7 25.4 38.0

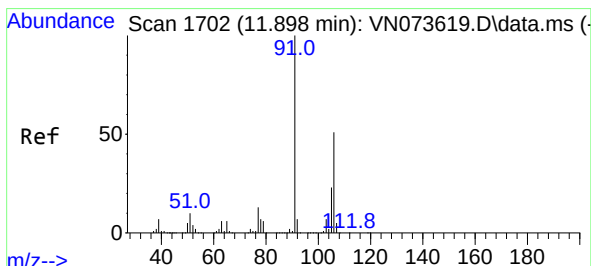
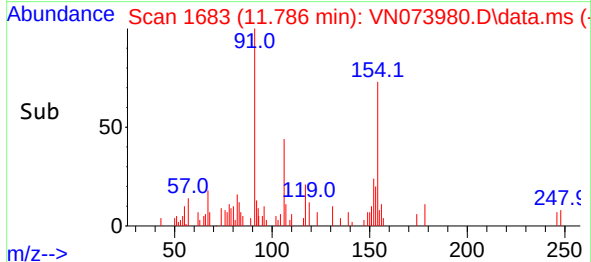
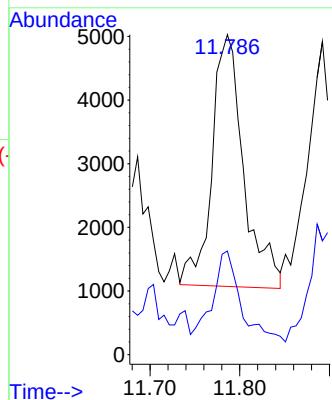
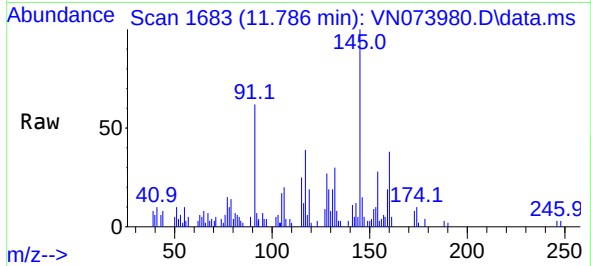




#67  
Ethyl Benzene  
Concen: 0.283 ug/l  
RT: 11.786 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

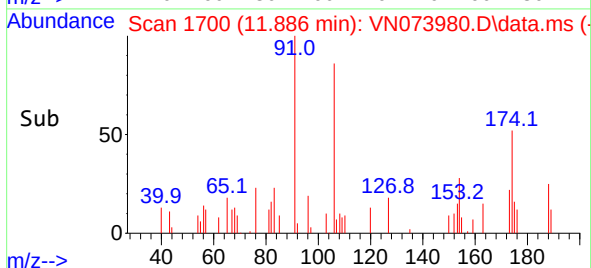
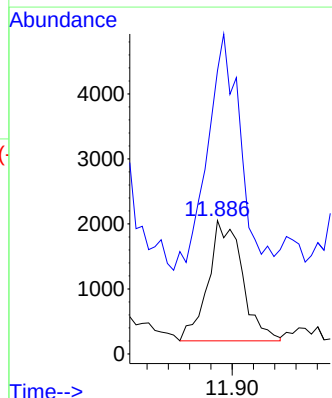
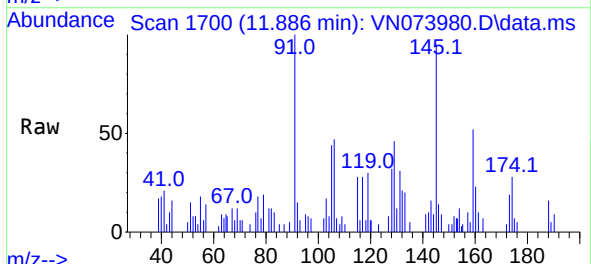
Instrument :  
MSVOA\_N  
ClientSampleId :

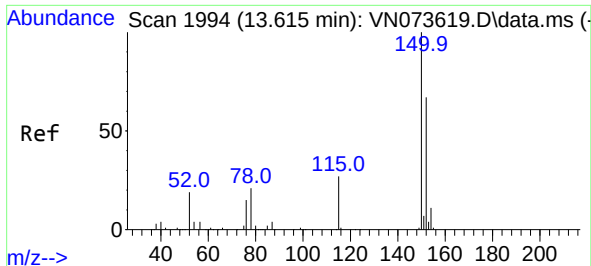
Tgt Ion: 91 Resp: 9679  
Ion Ratio Lower Upper  
91 100  
106 34.4 24.9 37.3



#68  
m/p-Xylenes  
Concen: 0.297 ug/l  
RT: 11.886 min Scan# 1700  
Delta R.T. -0.012 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

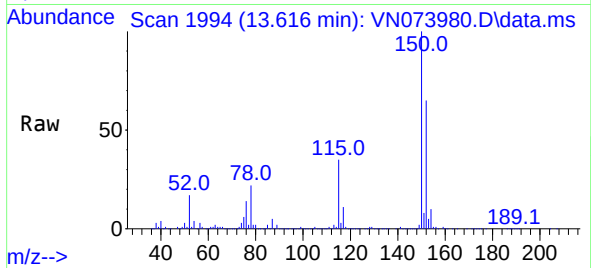
Tgt Ion:106 Resp: 4120  
Ion Ratio Lower Upper  
106 100  
91 188.5 158.9 238.3



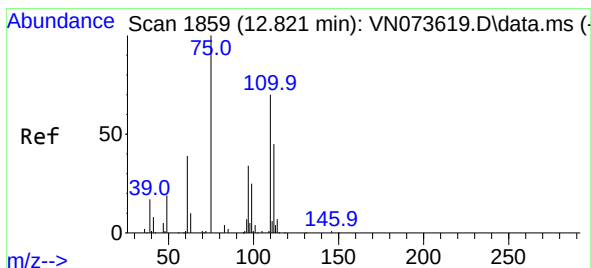
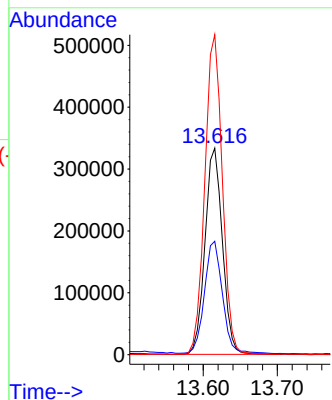
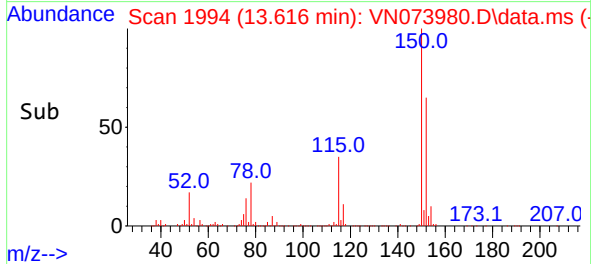


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.616 min Scan# 1994  
 Delta R.T. 0.001 min  
 Lab File: VN073980.D  
 Acq: 17 Aug 2022 16:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :

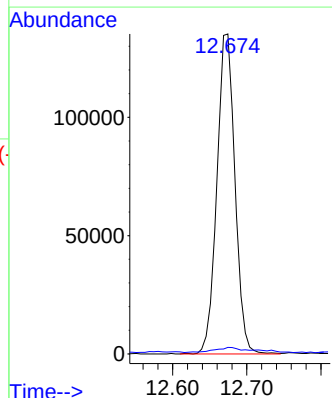
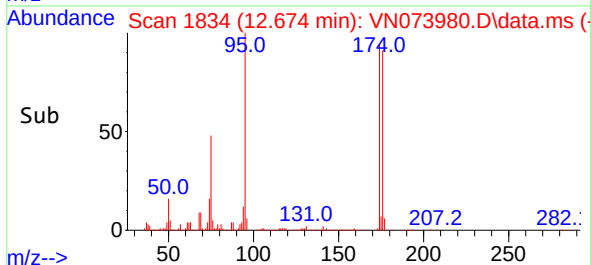
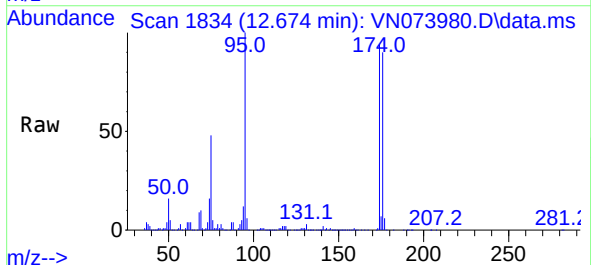


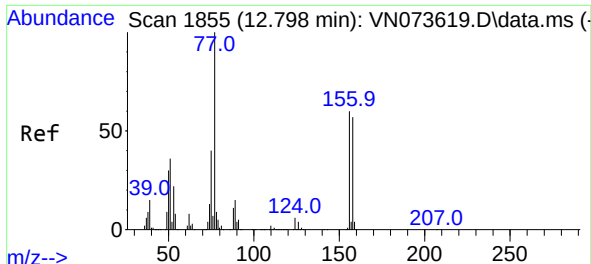
Tgt Ion:152 Resp: 545320  
 Ion Ratio Lower Upper  
 152 100  
 115 56.5 28.9 86.7  
 150 156.0 0.0 356.2



#76  
 1,2,3-Trichloropropane  
 Concen: 20.235 ug/l  
 RT: 12.674 min Scan# 1834  
 Delta R.T. -0.147 min  
 Lab File: VN073980.D  
 Acq: 17 Aug 2022 16:47

Tgt Ion: 75 Resp: 229356  
 Ion Ratio Lower Upper  
 75 100  
 77 3.3 98.5 295.5#

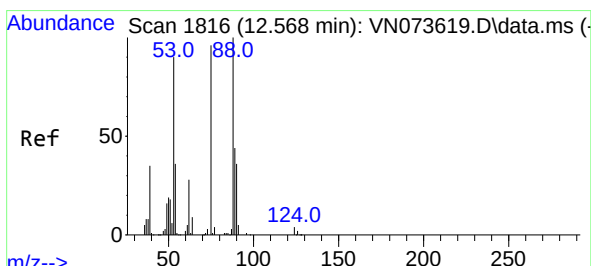
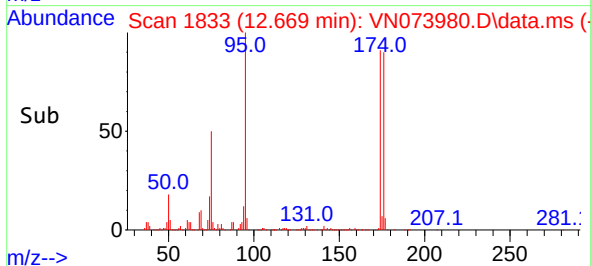
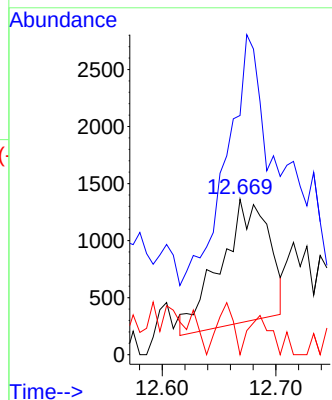
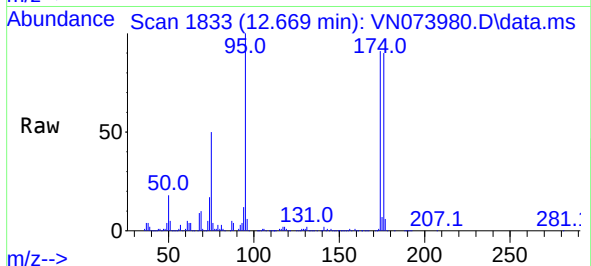




#77  
Bromobenzene  
Concen: 0.295 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. -0.129 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

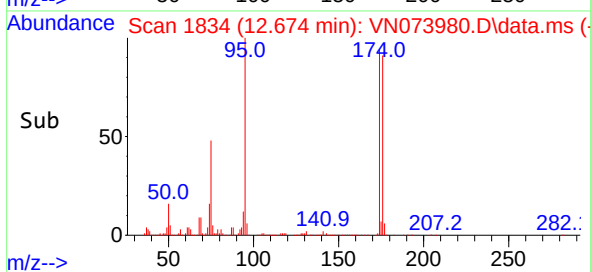
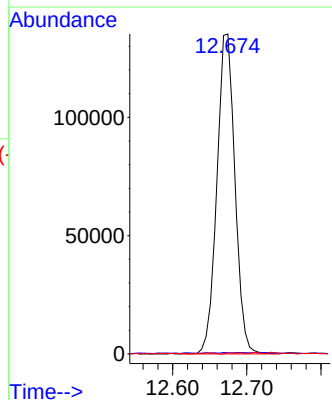
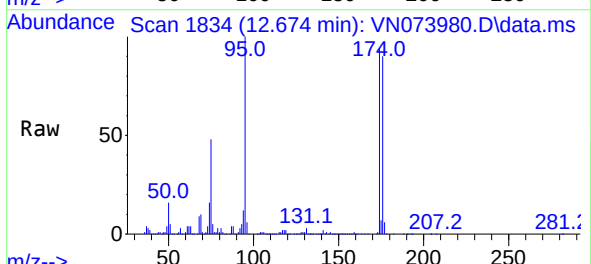
Instrument :  
MSVOA\_N  
ClientSampleId :

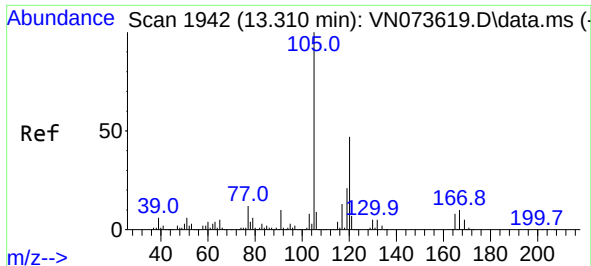
Tgt Ion:156 Resp: 3166  
Ion Ratio Lower Upper  
156 100  
77 239.3 100.5 301.5  
158 16.2 48.9 146.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 57.553 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. 0.106 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Tgt Ion: 75 Resp: 229356  
Ion Ratio Lower Upper  
75 100  
53 0.1 78.0 117.0#  
89 0.3 37.2 55.8#

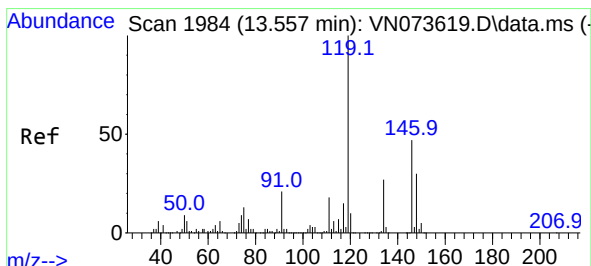
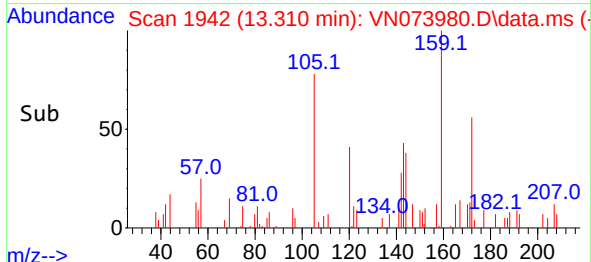
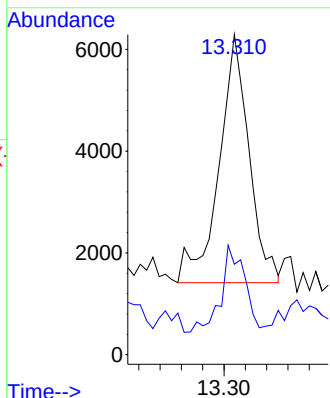
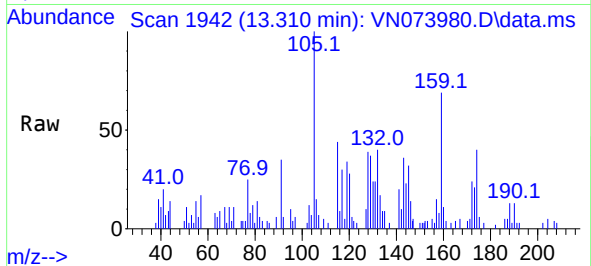




#84  
1,2,4-Trimethylbenzene  
Concen: 0.295 ug/l  
RT: 13.310 min Scan# 1942  
Delta R.T. -0.000 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

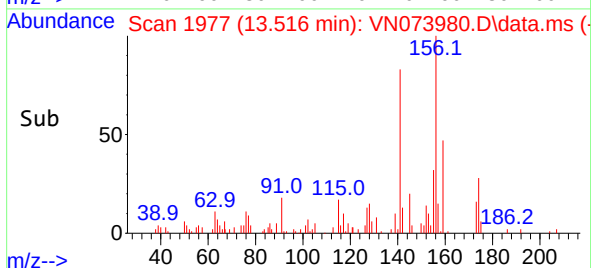
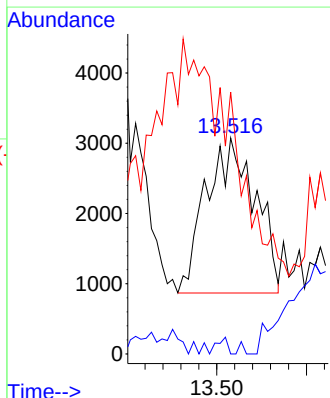
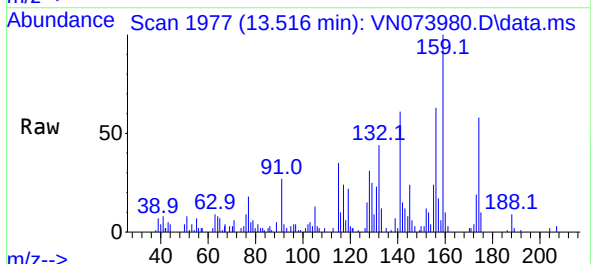
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:105 Resp: 9526  
Ion Ratio Lower Upper  
105 100  
120 27.2 23.3 69.8

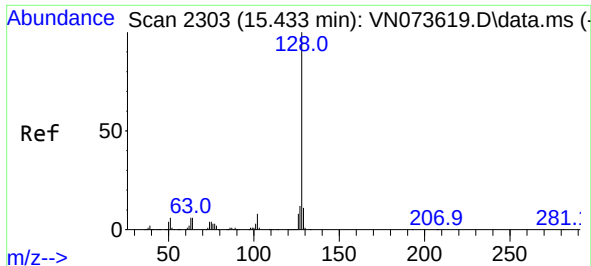


#86  
p-Isopropyltoluene  
Concen: 0.256 ug/l  
RT: 13.516 min Scan# 1977  
Delta R.T. -0.041 min  
Lab File: VN073980.D  
Acq: 17 Aug 2022 16:47

Tgt Ion:119 Resp: 8412  
Ion Ratio Lower Upper  
119 100  
134 2.3 13.3 39.8#  
91 0.0 11.3 33.9#







#95

Naphthalene

Concen: 0.491 ug/l

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

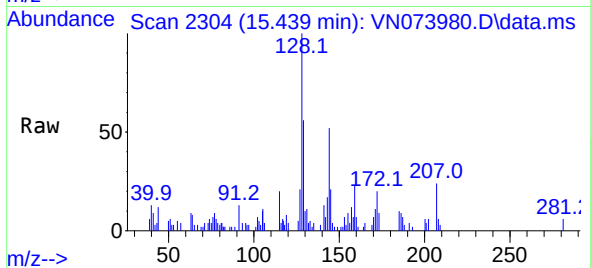
Lab File: VN073980.D

Acq: 17 Aug 2022 16:47

Instrument :

MSVOA\_N

ClientSampleId :



Tgt Ion:128 Resp: 18738

Ion Ratio Lower Upper

128 100

127 20.4 10.3 15.5#

129 72.9 8.6 13.0#

