

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062623\  
 Data File : VN078405.D  
 Acq On : 26 Jun 2023 16:25  
 Operator : JC\MD  
 Sample : 03376-11  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-062123

Quant Time: Jun 27 02:18:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

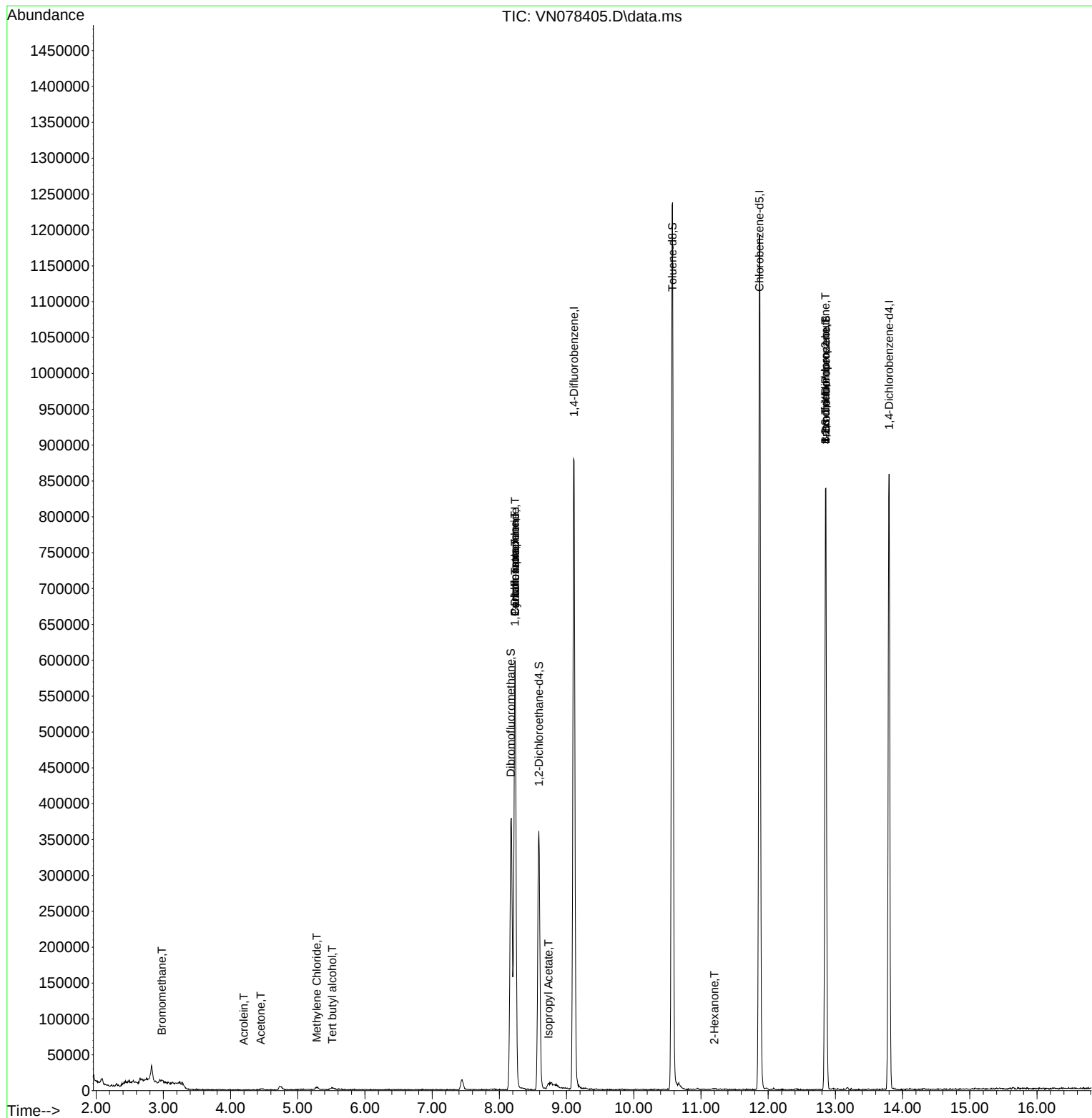
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.236  | 168            | 430474   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.112  | 114            | 783894   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117            | 726329   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800 | 152            | 238996   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588  | 65             | 300128   | 52.291     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 104.580% |        |          |
| 35) Dibromofluoromethane      | 8.171  | 113            | 278993   | 56.289     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 112.580% |        |          |
| 50) Toluene-d8                | 10.577 | 98             | 919407   | 48.117     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 96.240%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.859 | 95             | 300157   | 50.531     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | = 101.060% |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 3) Chloromethane              | 2.383  | 50             | 1352     | Below Cal  | #      | 79       |
| 5) Bromomethane               | 2.977  | 94             | 2414     | 0.501      | ug/l   | 88       |
| 11) Tert butyl alcohol        | 5.512  | 59             | 1411     | 1.780      | ug/l # | 72       |
| 13) Acrolein                  | 4.200  | 56             | 272      | 0.311      | ug/l # | 70       |
| 16) Acetone                   | 4.447  | 43             | 2022     | 1.224      | ug/l # | 81       |
| 20) Methylene Chloride        | 5.283  | 84             | 1939     | 0.355      | ug/l # | 65       |
| 31) Cyclohexane               | 8.236  | 56             | 10011    | 1.360      | ug/l # | 14       |
| 36) 1,1-Dichloropropene       | 8.230  | 75             | 35184    | 4.949      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.236  | 117            | 49631    | 6.611      | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.730  | 43             | 5067     | 0.477      | ug/l # | 49       |
| 59) 2-Hexanone                | 11.200 | 43             | 940      | 0.241      | ug/l   | 80       |
| 71) Bromoform                 | 12.853 | 173            | 2195     | 0.595      | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83             | 135      | Below Cal  | #      | 26       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75             | 163402   | 28.921     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75             | 163402   | 88.854     | ug/l # | 15       |
| 94) Hexachlorobutadiene       | 15.506 | 225            | 325      | Below Cal  | #      | 50       |
| -----                         |        |                |          |            |        |          |

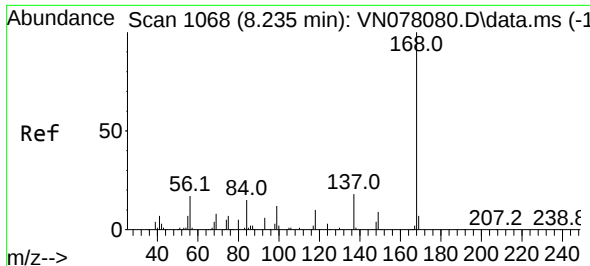
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062623\  
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MSVOA\_N  
ClientSampleId :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 07 05:05:00 2023  
Response via : Initial Calibration

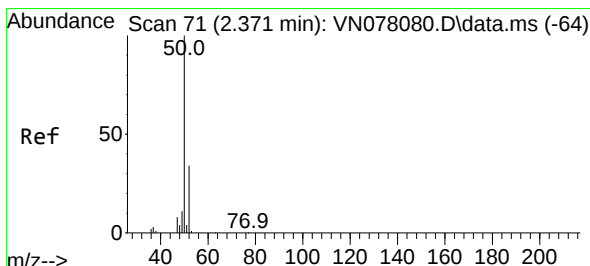
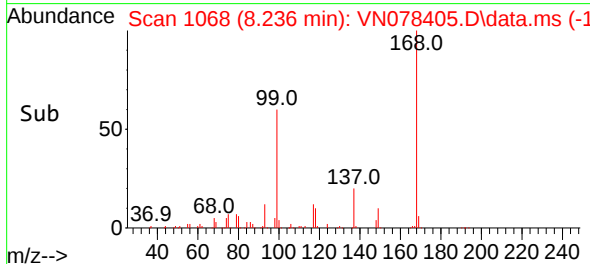
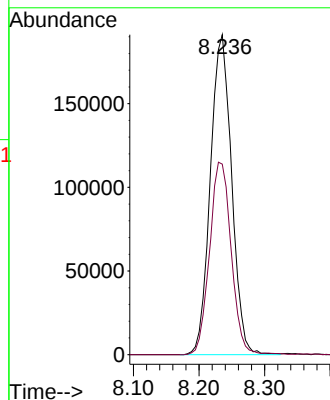
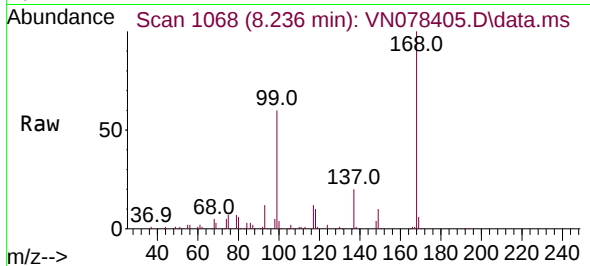




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.236 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

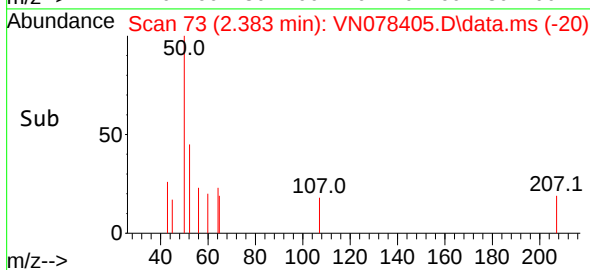
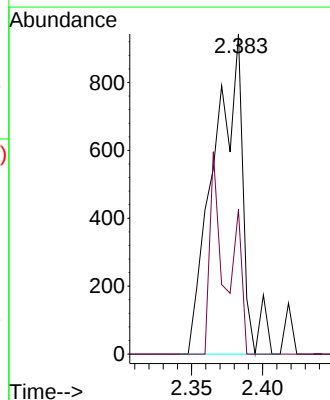
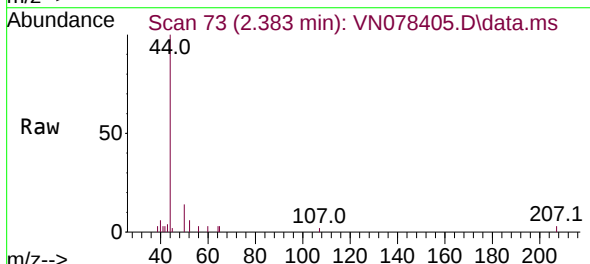
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-062123

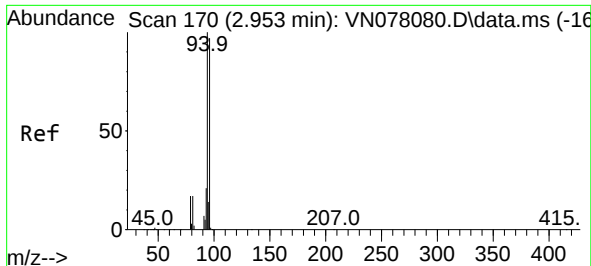
Tgt Ion:168 Resp: 430474  
Ion Ratio Lower Upper  
168 100  
99 59.6 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.383 min Scan# 73  
Delta R.T. 0.012 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

Tgt Ion: 50 Resp: 1352  
Ion Ratio Lower Upper  
50 100  
52 45.2 26.5 39.7#

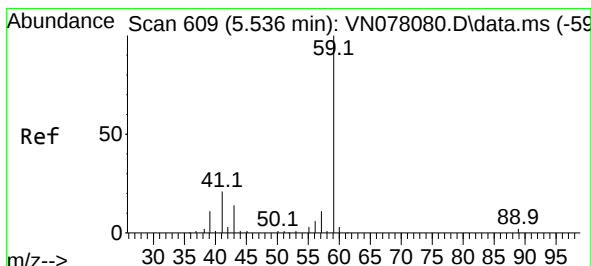
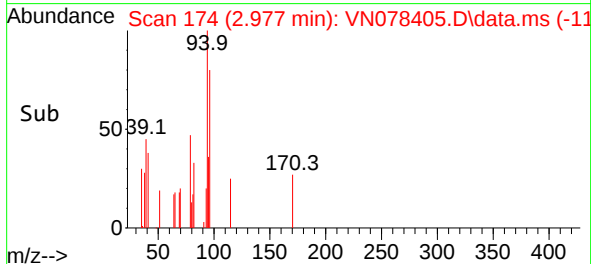
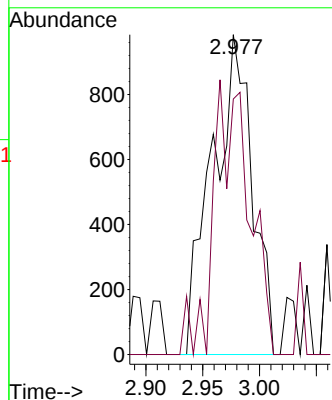
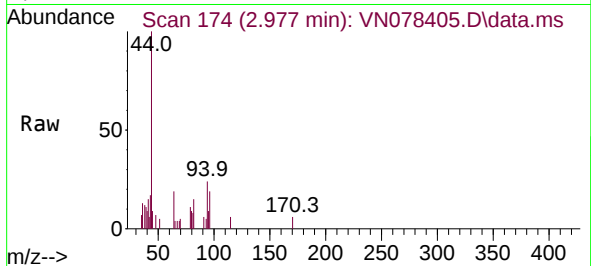




#5  
Bromomethane  
Concen: 0.501 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

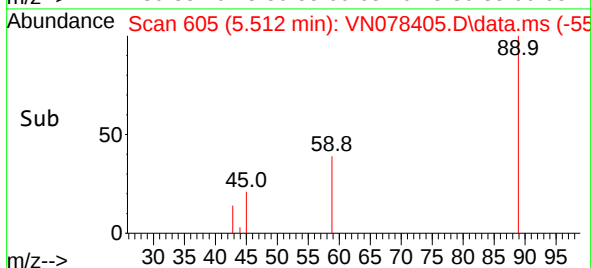
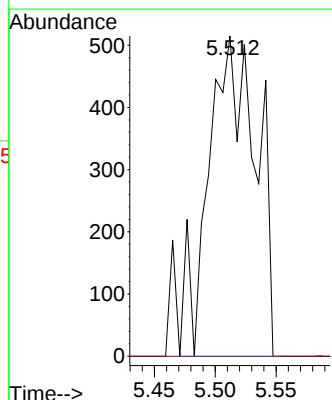
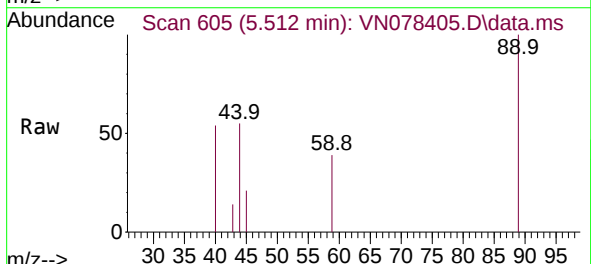
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-062123

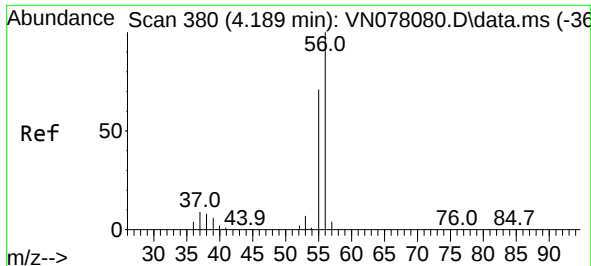
Tgt Ion: 94 Resp: 2414  
Ion Ratio Lower Upper  
94 100  
96 79.9 73.1 109.7



#11  
Tert butyl alcohol  
Concen: 1.780 ug/l  
RT: 5.512 min Scan# 605  
Delta R.T. -0.023 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

Tgt Ion: 59 Resp: 1411  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

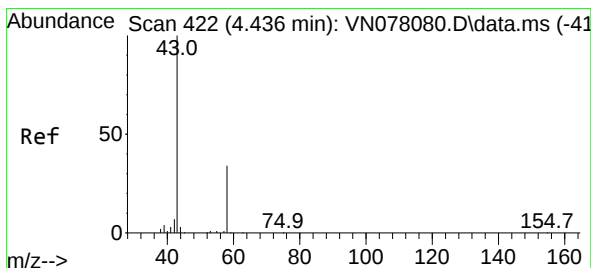
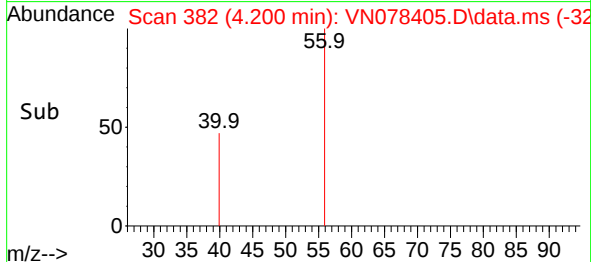
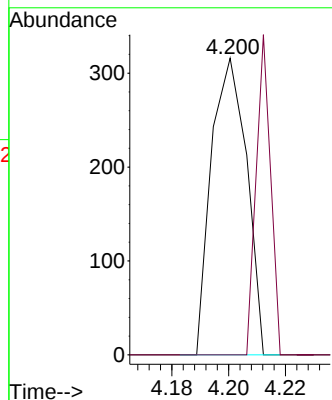
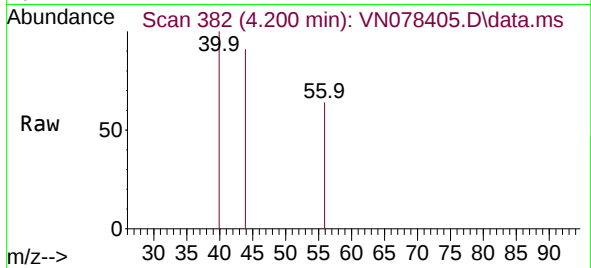




#13  
Acrolein  
Concen: 0.311 ug/l  
RT: 4.200 min Scan# 382  
Delta R.T. 0.012 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

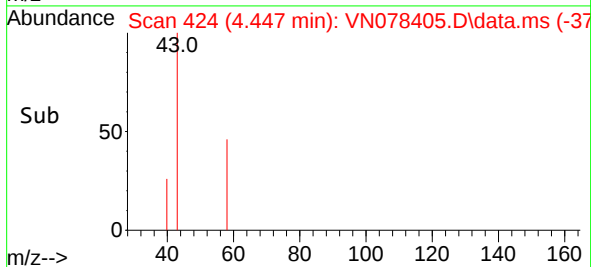
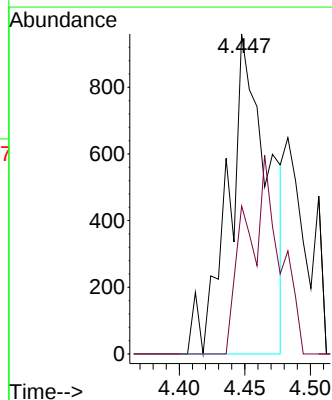
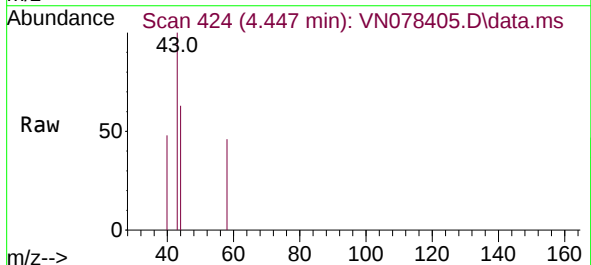
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-062123

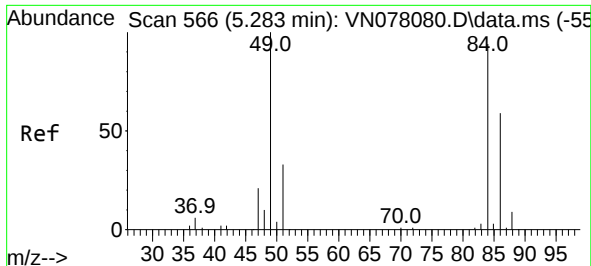
Tgt Ion: 56 Resp: 272  
Ion Ratio Lower Upper  
56 100  
55 44.1 54.5 81.7#



#16  
Acetone  
Concen: 1.224 ug/l  
RT: 4.447 min Scan# 424  
Delta R.T. 0.012 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

Tgt Ion: 43 Resp: 2022  
Ion Ratio Lower Upper  
43 100  
58 46.3 28.0 42.0#

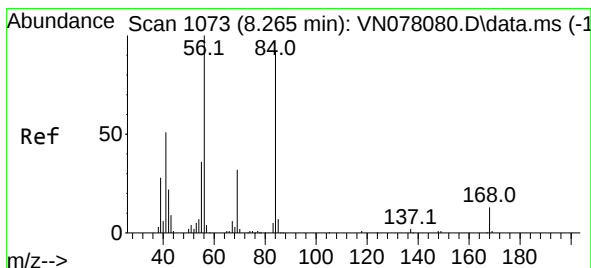
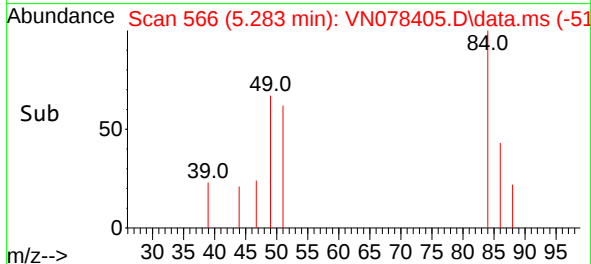
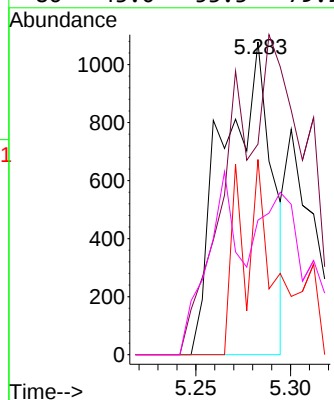
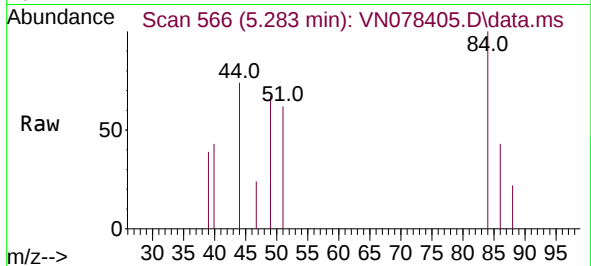




#20  
Methylene Chloride  
Concen: 0.355 ug/l  
RT: 5.283 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

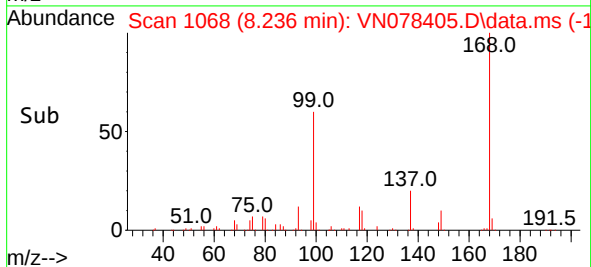
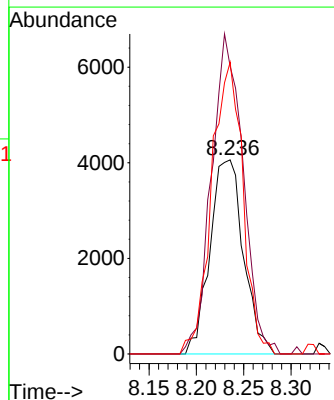
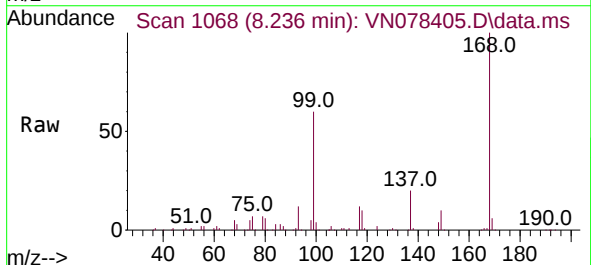
Instrument :  
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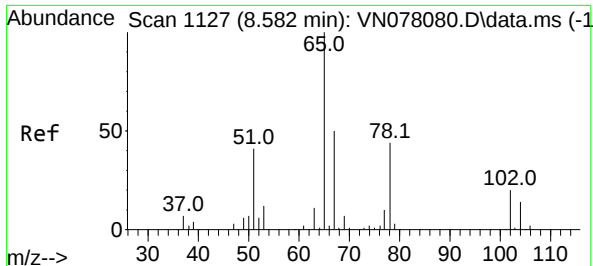
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 1939  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 67.3     | 79.7 119.5# |
| 51 62.4     | 25.2 37.8#  |
| 86 43.0     | 53.3 79.9#  |



#31  
Cyclohexane  
Concen: 1.360 ug/l  
RT: 8.236 min Scan# 1068  
Delta R.T. -0.029 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 10011 |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 148.3    | 26.8 40.2#  |
| 84 150.4    | 81.8 122.6# |





#33

1,2-Dichloroethane-d4

Concen: 52.291 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078405.D

Acq: 26 Jun 2023 16:25

Instrument :

MSVOA\_N

ClientSampleId :

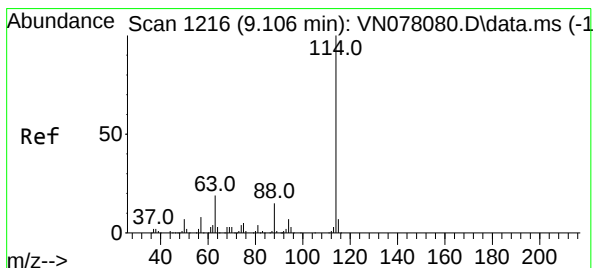
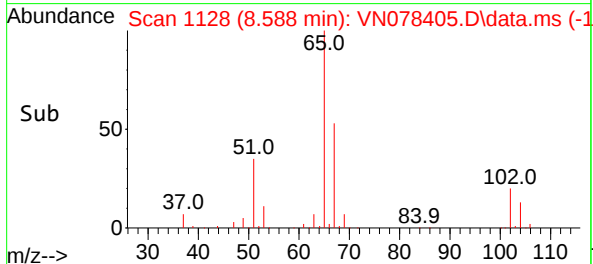
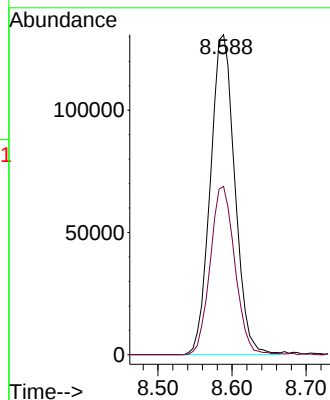
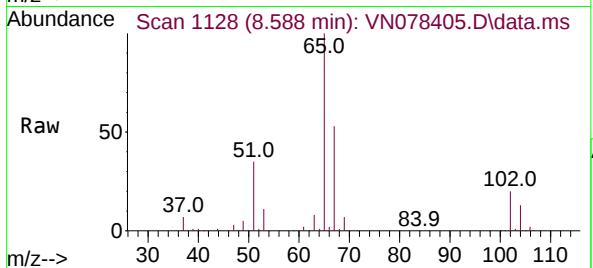
TB-062123

Tgt Ion: 65 Resp: 300128

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078405.D

Acq: 26 Jun 2023 16:25

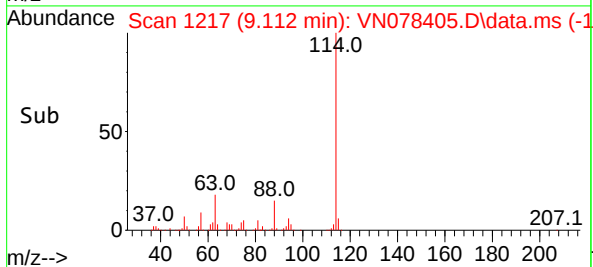
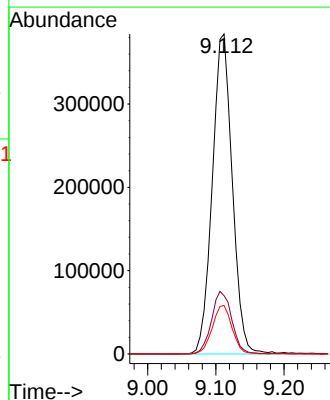
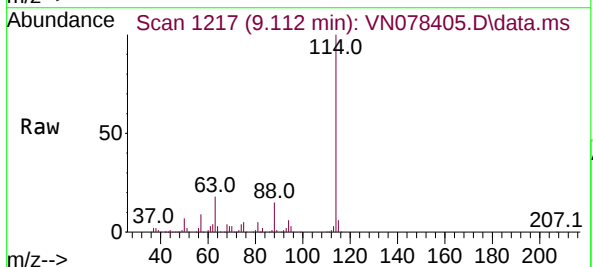
Tgt Ion: 114 Resp: 783894

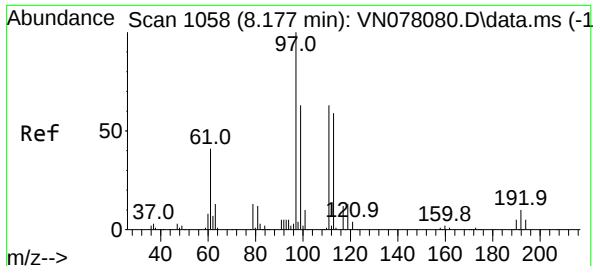
Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.4

88 15.1 0.0 30.6

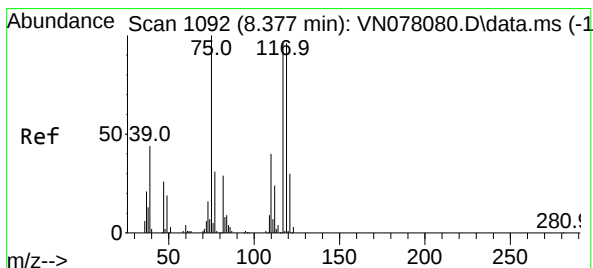
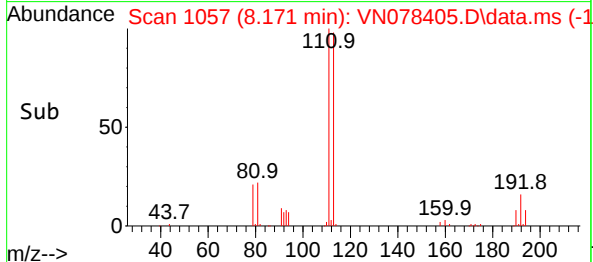
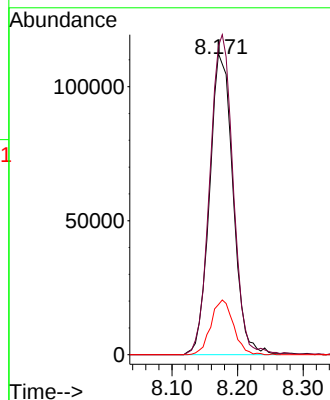
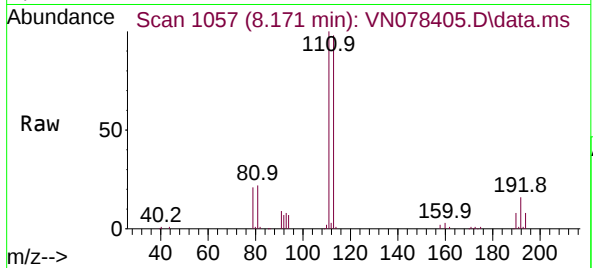




#35  
Dibromofluoromethane  
Concen: 56.289 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. -0.006 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

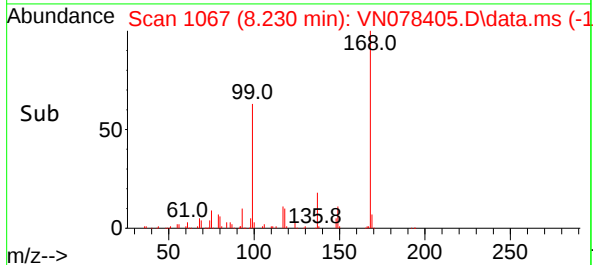
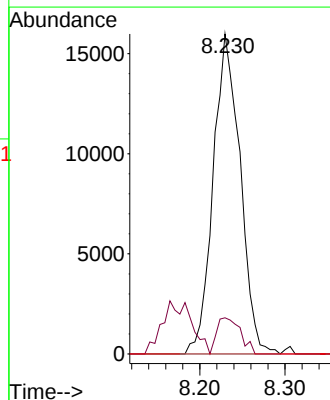
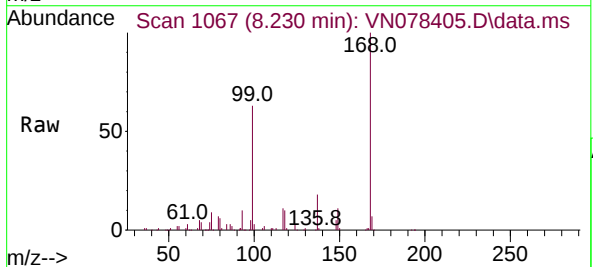
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-062123

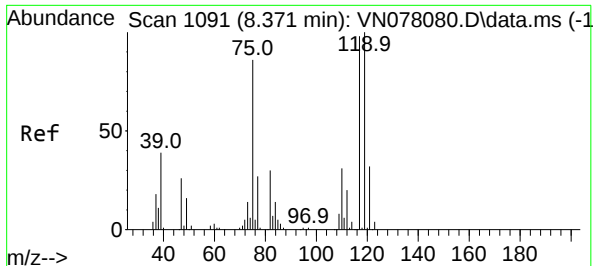
Tgt Ion:113 Resp: 278993  
Ion Ratio Lower Upper  
113 100  
111 105.4 82.6 123.8  
192 17.4 12.7 19.1



#36  
1,1-Dichloropropene  
Concen: 4.949 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.147 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

Tgt Ion: 75 Resp: 35184  
Ion Ratio Lower Upper  
75 100  
110 9.9 19.1 57.3#  
77 0.0 25.0 37.4#

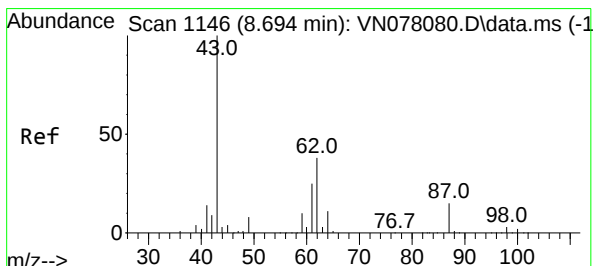
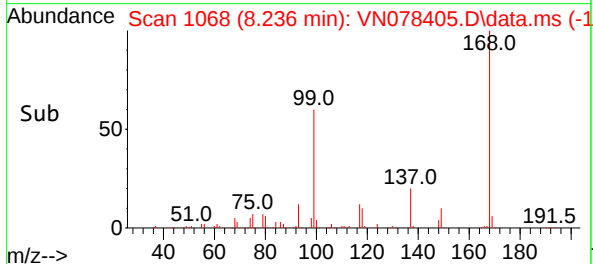
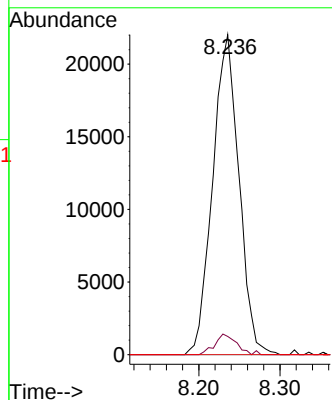
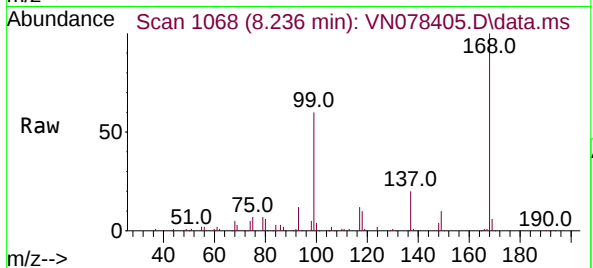




#38  
Carbon Tetrachloride  
Concen: 6.611 ug/l  
RT: 8.236 min Scan# 1105  
Delta R.T. -0.135 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

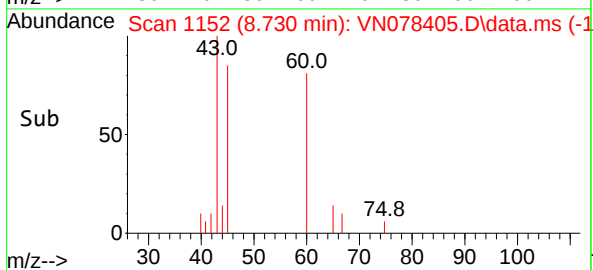
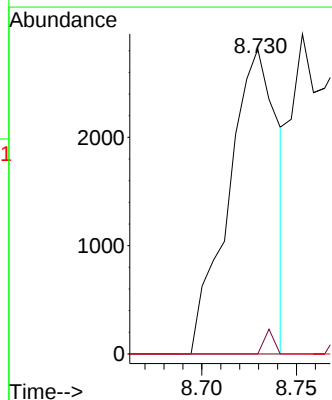
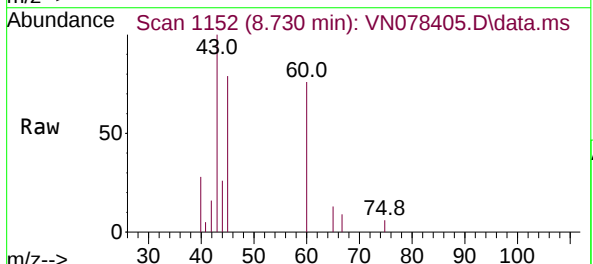
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-062123

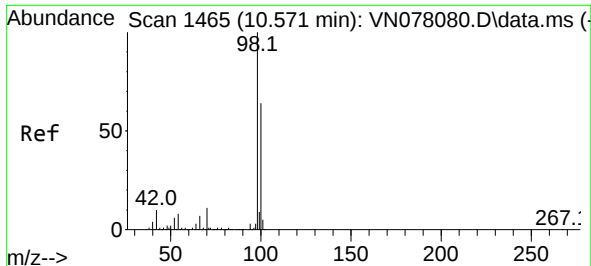
Tgt Ion:117 Resp: 49631  
Ion Ratio Lower Upper  
117 100  
119 5.7 77.3 115.9#  
121 0.0 23.3 34.9#



#43  
Isopropyl Acetate  
Concen: 0.477 ug/l  
RT: 8.730 min Scan# 1152  
Delta R.T. 0.035 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

Tgt Ion: 43 Resp: 5067  
Ion Ratio Lower Upper  
43 100  
61 0.0 24.7 37.1#  
87 0.0 14.6 21.8#

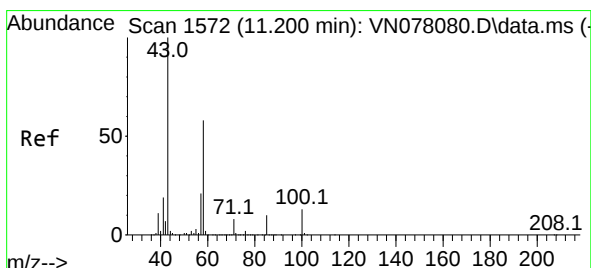
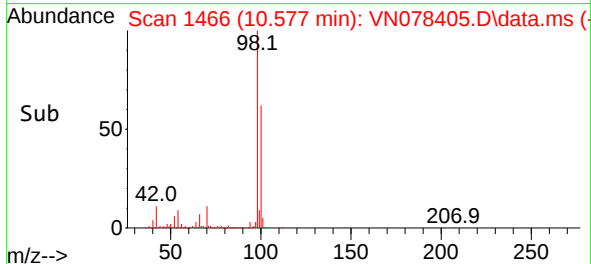
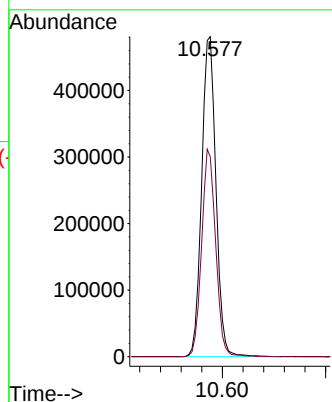
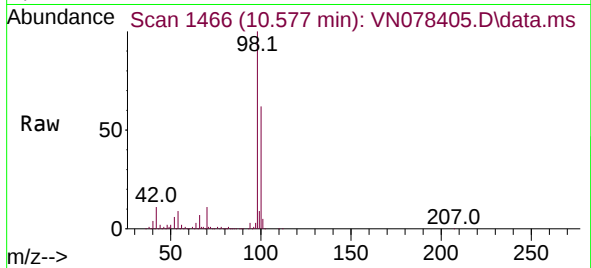




#50  
Toluene-d8  
Concen: 48.117 ug/l  
RT: 10.577 min Scan# 1466  
Delta R.T. 0.006 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

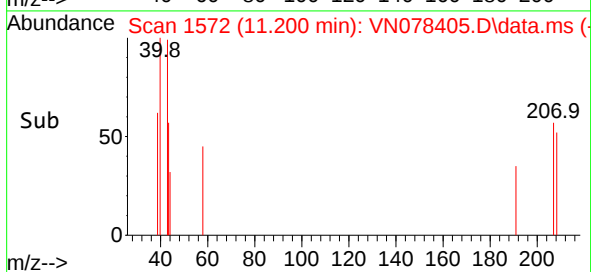
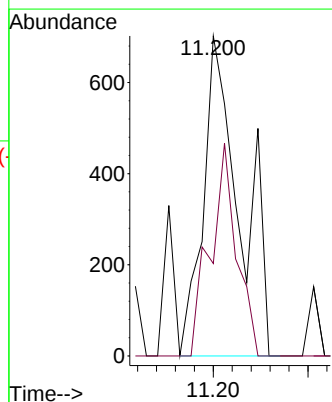
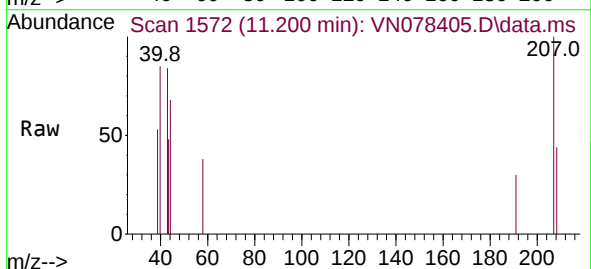
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-062123

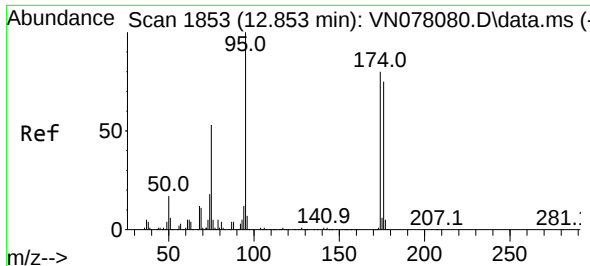
Tgt Ion: 98 Resp: 919407  
Ion Ratio Lower Upper  
98 100  
100 63.8 52.0 78.0



#59  
2-Hexanone  
Concen: 0.241 ug/l  
RT: 11.200 min Scan# 1572  
Delta R.T. 0.000 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

Tgt Ion: 43 Resp: 940  
Ion Ratio Lower Upper  
43 100  
58 47.9 31.7 95.1

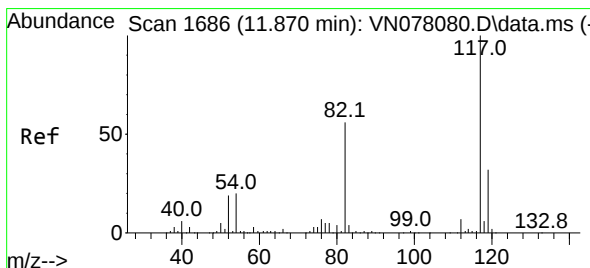
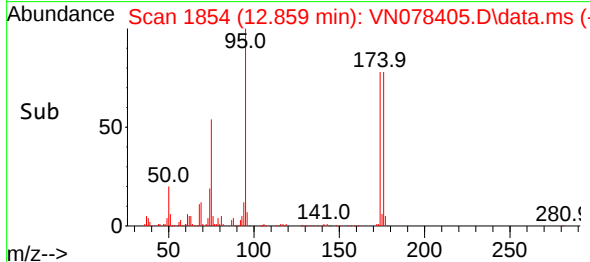
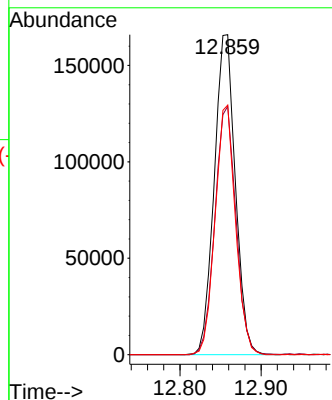
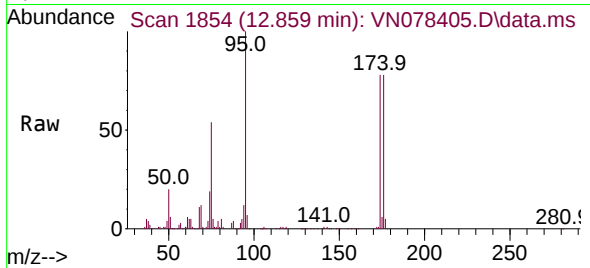




#62  
4-Bromofluorobenzene  
Concen: 50.531 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

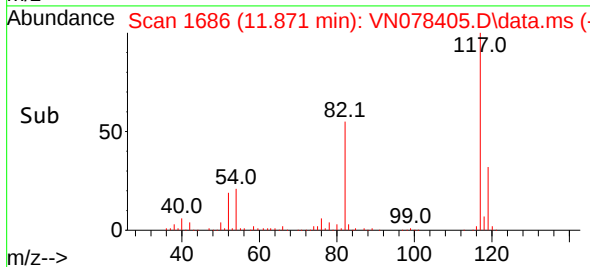
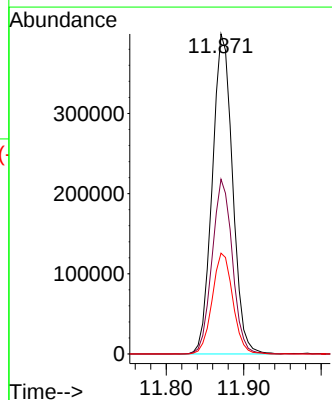
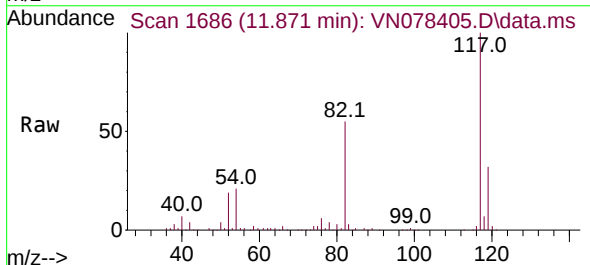
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-062123

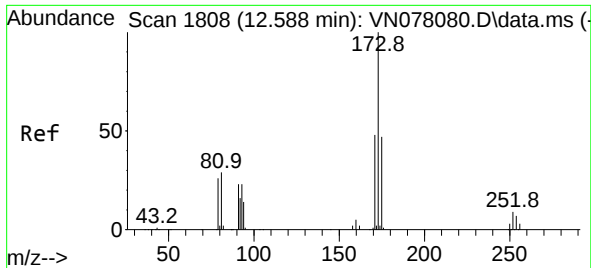
Tgt Ion: 95 Resp: 300157  
Ion Ratio Lower Upper  
95 100  
174 77.5 0.0 143.8  
176 75.4 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

Tgt Ion: 117 Resp: 726329  
Ion Ratio Lower Upper  
117 100  
82 54.6 44.0 66.0  
119 31.5 25.6 38.4

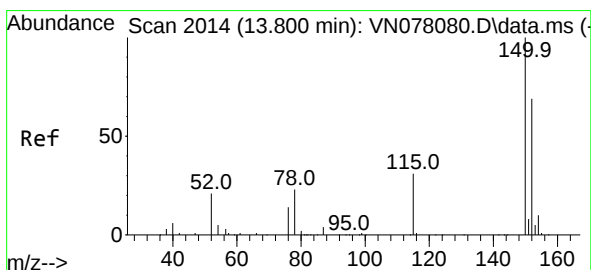
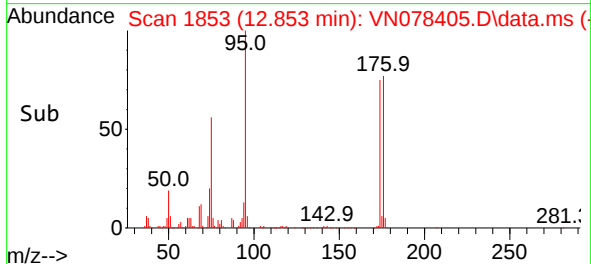
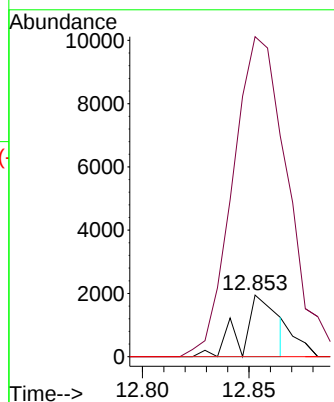
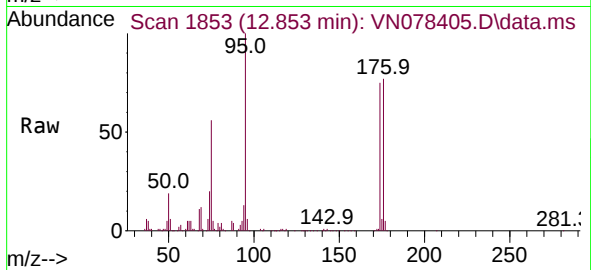




#71  
Bromoform  
Concen: 0.595 ug/l  
RT: 12.853 min Scan# 1808  
Delta R.T. 0.265 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

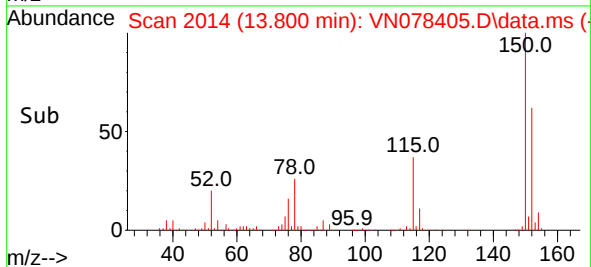
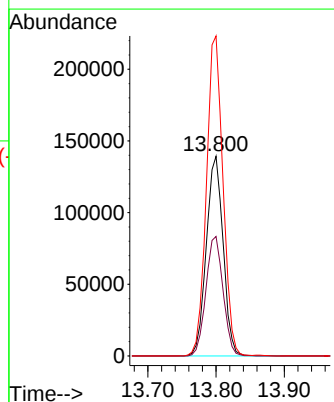
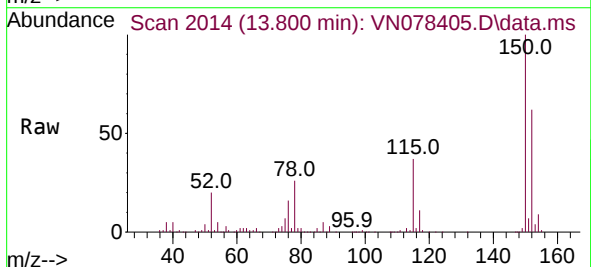
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-062123

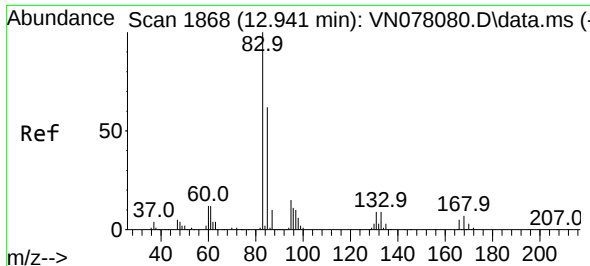
Tgt Ion:173 Resp: 2195  
Ion Ratio Lower Upper  
173 100  
175 690.9 24.3 73.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.800 min Scan# 2014  
Delta R.T. 0.000 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

Tgt Ion:152 Resp: 238996  
Ion Ratio Lower Upper  
152 100  
115 60.9 32.3 96.8  
150 157.5 0.0 355.8

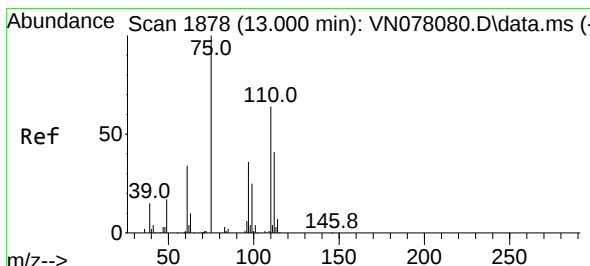
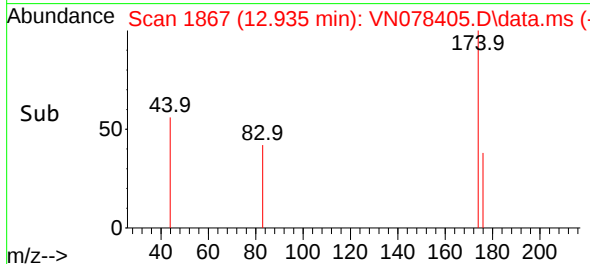
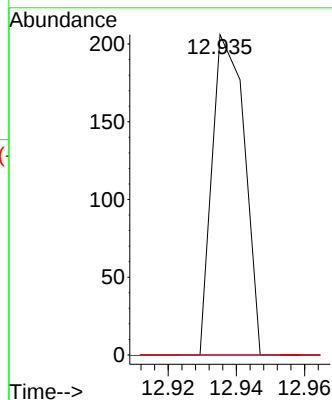
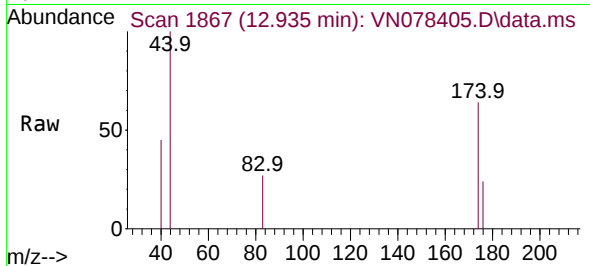




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.935 min Scan# 1867  
Delta R.T. -0.006 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

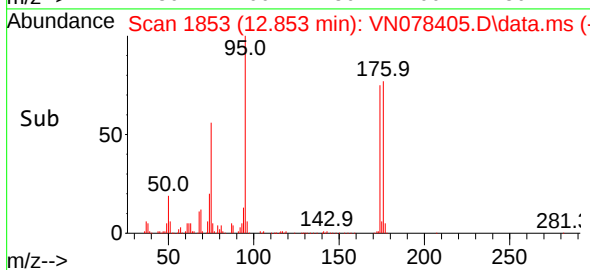
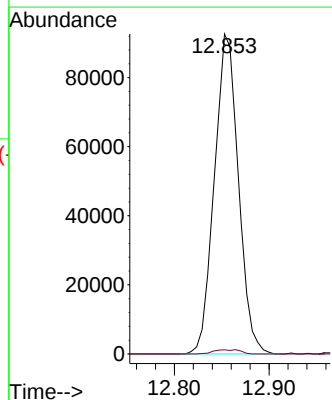
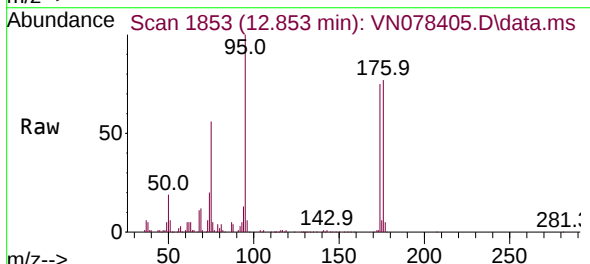
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-062123

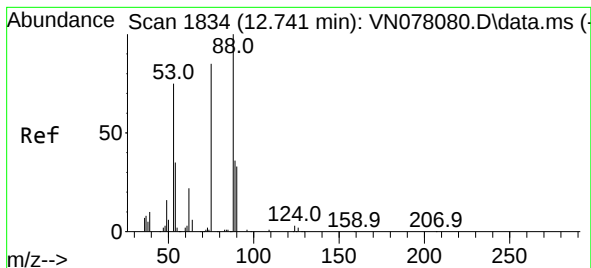
Tgt Ion: 83 Resp: 135  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.0 15.0#  
85 0.0 31.9 95.7#



#76  
1,2,3-Trichloropropane  
Concen: 28.921 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN078405.D  
Acq: 26 Jun 2023 16:25

Tgt Ion: 75 Resp: 163402  
Ion Ratio Lower Upper  
75 100  
77 1.5 84.5 253.5#

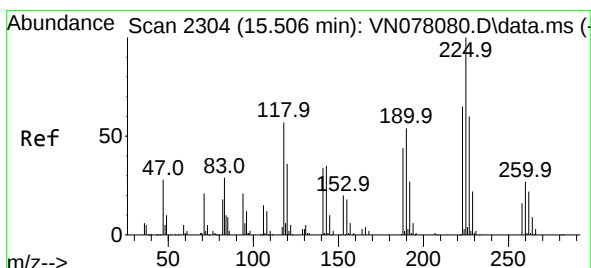
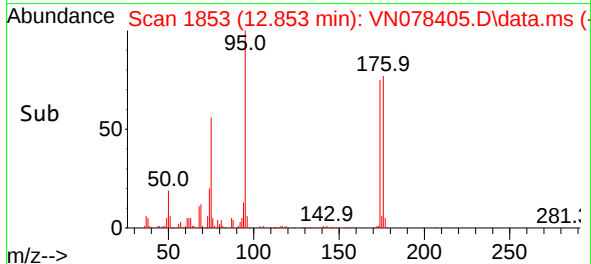
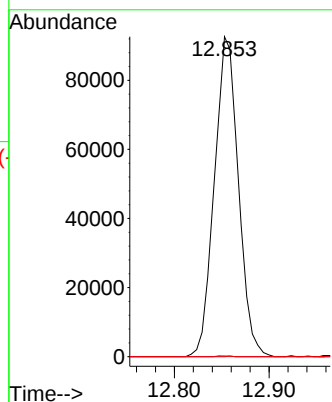
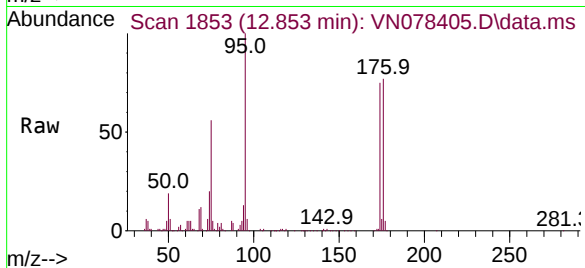




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 88.854 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. 0.112 min  
 Lab File: VN078405.D  
 Acq: 26 Jun 2023 16:25

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-062123

Tgt Ion: 75 Resp: 163402  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 67.4 101.2#  
 89 0.0 38.8 58.2#



#94  
 Hexachlorobutadiene  
 Concen: Below Cal  
 RT: 15.506 min Scan# 2304  
 Delta R.T. -0.000 min  
 Lab File: VN078405.D  
 Acq: 26 Jun 2023 16:25

Tgt Ion: 225 Resp: 325  
 Ion Ratio Lower Upper  
 225 100  
 223 26.2 31.3 93.8#  
 227 22.5 31.9 95.9#

