

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021722\  
 Data File : VN070979.D  
 Acq On : 17 Feb 2022 15:04  
 Operator : JC\MD  
 Sample : N1581-23  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB01-20220215

Quant Time: Feb 18 00:45:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 16 07:52:42 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.086  | 168  | 796506   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.963  | 114  | 1235111  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.745 | 117  | 1083222  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.674 | 152  | 373822   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.434  | 65    | 469893   | 51.644   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =    | 103.280% |
| 35) Dibromofluoromethane    | 8.016  | 113   | 370892   | 50.486   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =    | 100.980% |
| 50) Toluene-d8              | 10.439 | 98    | 1484905  | 50.331   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =    | 100.660% |
| 62) 4-Bromofluorobenzene    | 12.727 | 95    | 487689   | 46.246   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =    | 92.500%  |

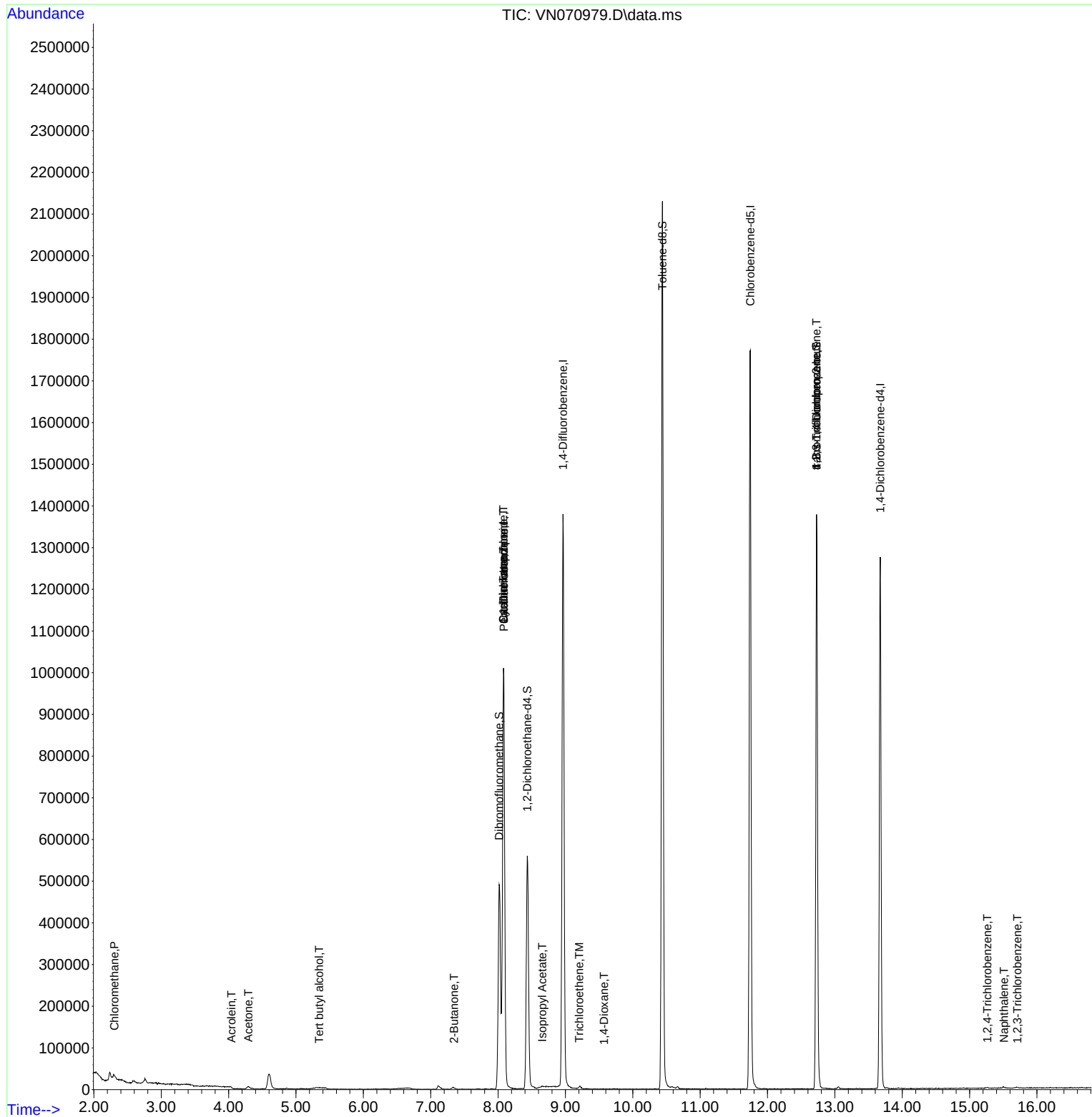
| Target Compounds              |        |     |        |               | Qvalue |
|-------------------------------|--------|-----|--------|---------------|--------|
| 3) Chloromethane              | 2.305  | 50  | 2617   | 0.252 ug/l #  | 84     |
| 11) Tert butyl alcohol        | 5.346  | 59  | 434    | 0.262 ug/l #  | 71     |
| 13) Acrolein                  | 4.040  | 56  | 581    | 0.392 ug/l #  | 44     |
| 16) Acetone                   | 4.293  | 43  | 7083   | 1.414 ug/l    | 94     |
| 18) Methyl Acetate            | 4.863  | 43  | 4179   | Below Cal #   | 71     |
| 25) 2-Butanone                | 7.345  | 43  | 2550   | 0.383 ug/l #  | 48     |
| 31) Cyclohexane               | 8.081  | 56  | 15625  | 0.993 ug/l #  | 1      |
| 36) 1,1-Dichloropropene       | 8.081  | 75  | 58416  | 4.853 ug/l #  | 48     |
| 38) Carbon Tetrachloride      | 8.081  | 117 | 75129  | 6.335 ug/l #  | 17     |
| 43) Isopropyl Acetate         | 8.657  | 43  | 8271   | 0.407 ug/l #  | 55     |
| 44) Trichloroethene           | 9.204  | 130 | 2371   | 0.253 ug/l    | 90     |
| 49) 1,4-Dioxane               | 9.575  | 88  | 72     | 0.421 ug/l #  | 1      |
| 76) 1,2,3-Trichloropropane    | 12.727 | 75  | 246596 | 28.017 ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.727 | 75  | 246596 | 90.788 ug/l # | 5      |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180 | 858    | 2.119 ug/l    | 87     |
| 95) Naphthalene               | 15.510 | 128 | 3948   | 5.202 ug/l #  | 88     |
| 96) 1,2,3-Trichlorobenzene    | 15.710 | 180 | 1055   | 2.674 ug/l    | 87     |

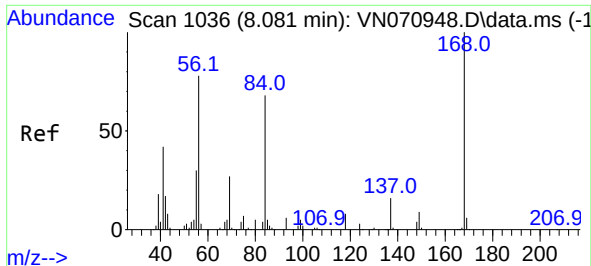
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021722\  
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Quant Title : SW846 8260  
QLast Update : Wed Feb 16 07:52:42 2022  
Response via : Initial Calibration

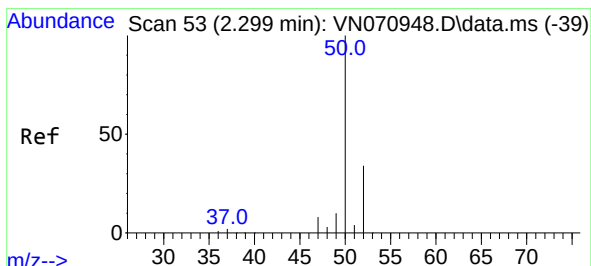
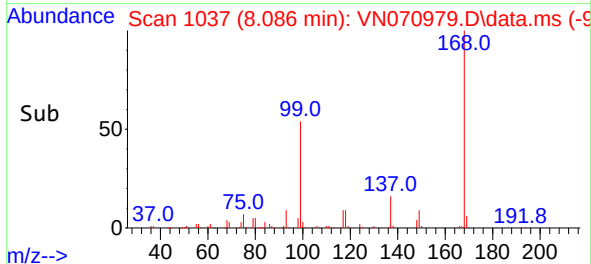
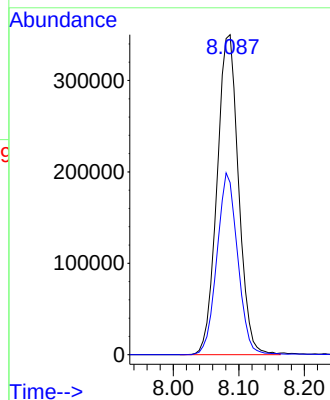
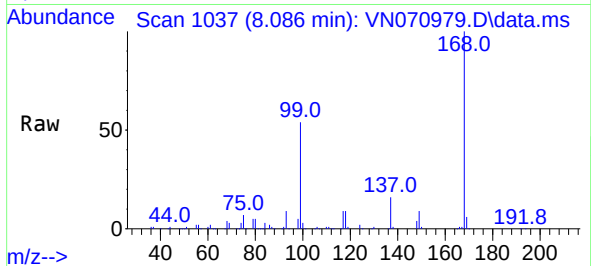




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 10  
Delta R.T. 0.005 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

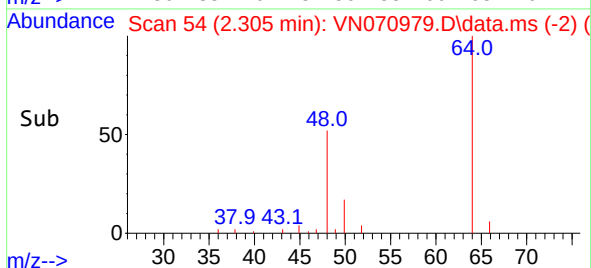
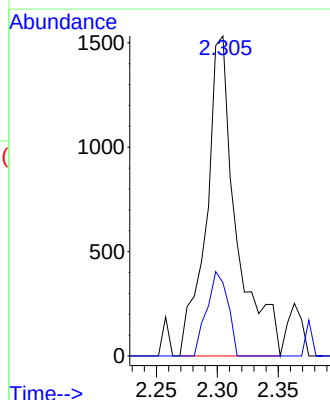
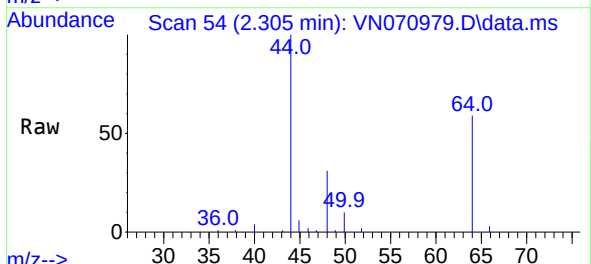
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MSVOA\_N  
ClientSampleId :  
TB01-20220215

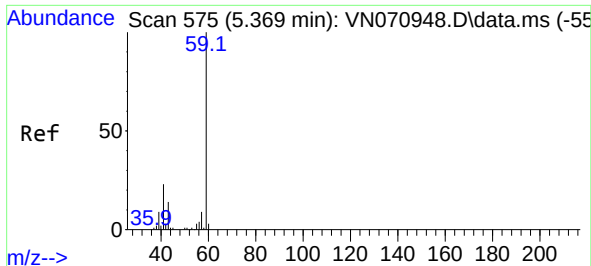
Tgt Ion:168 Resp: 796506  
Ion Ratio Lower Upper  
168 100  
99 53.7 41.3 61.9



#3  
Chloromethane  
Concen: 0.252 ug/l  
RT: 2.305 min Scan# 54  
Delta R.T. 0.006 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion: 50 Resp: 2617  
Ion Ratio Lower Upper  
50 100  
52 22.9 25.4 38.0#

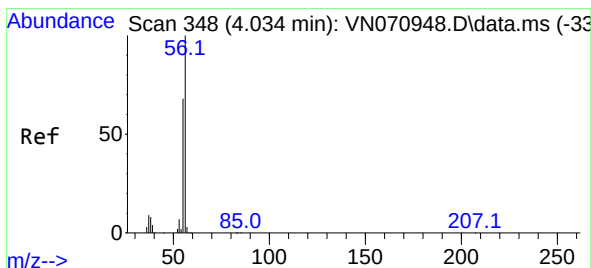
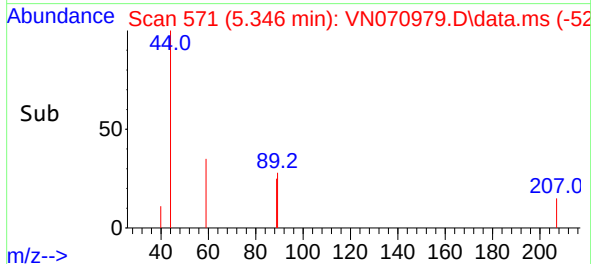
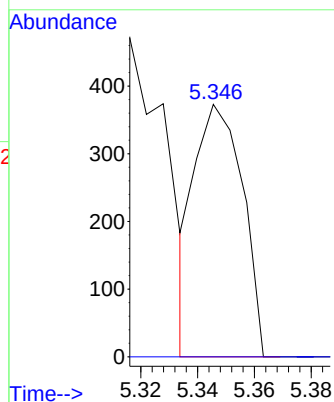
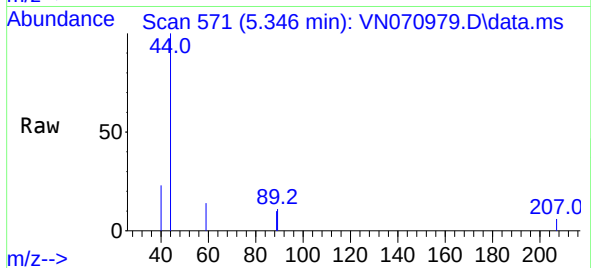




#11  
Tert butyl alcohol  
Concen: 0.262 ug/l  
RT: 5.346 min Scan# 51  
Delta R.T. -0.023 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

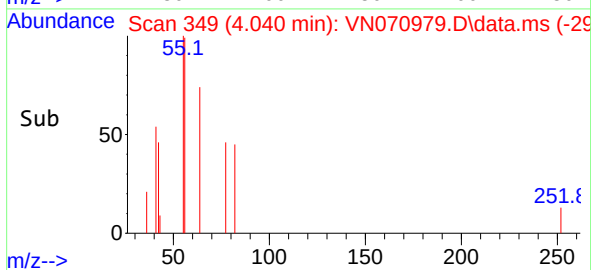
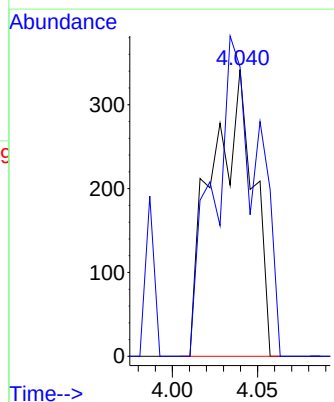
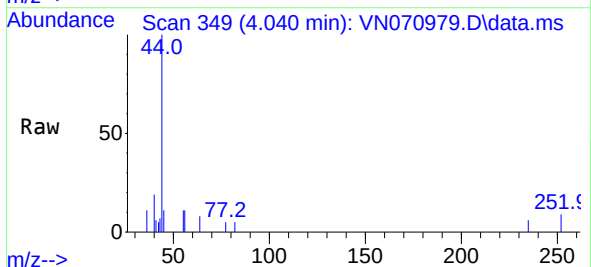
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MSVOA\_N  
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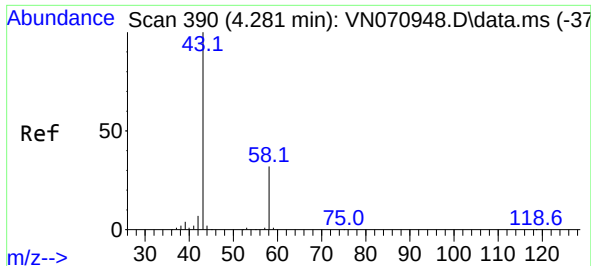
Tgt Ion: 59 Resp: 434  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#



#13  
Acrolein  
Concen: 0.392 ug/l  
RT: 4.040 min Scan# 349  
Delta R.T. 0.006 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion: 56 Resp: 581  
Ion Ratio Lower Upper  
56 100  
55 116.9 56.6 85.0#

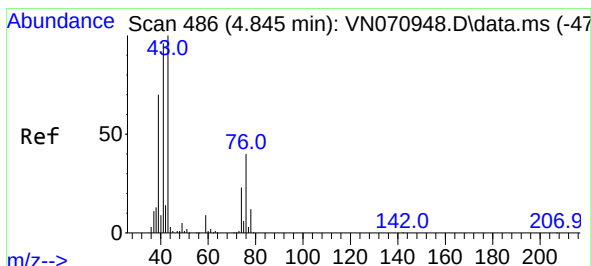
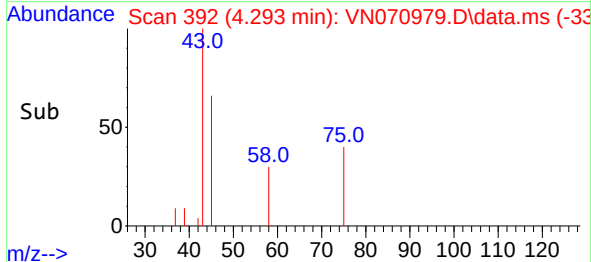
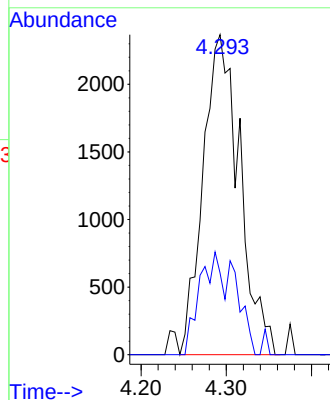
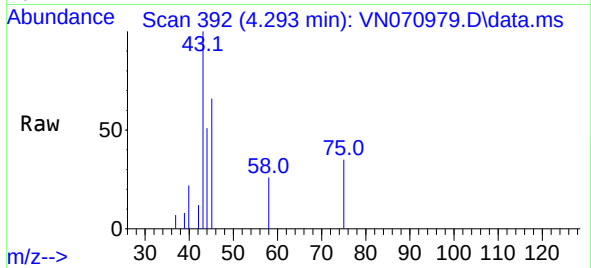




#16  
Acetone  
Concen: 1.414 ug/l  
RT: 4.293 min Scan# 391  
Delta R.T. 0.012 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

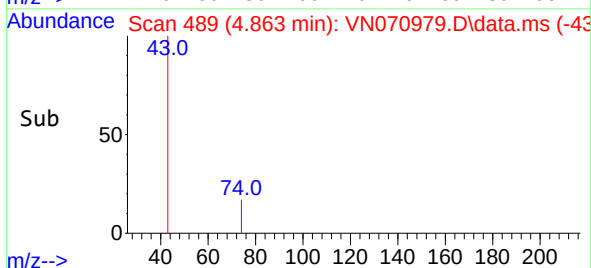
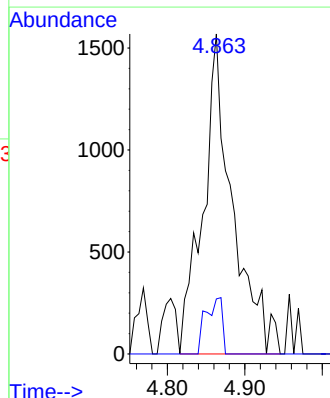
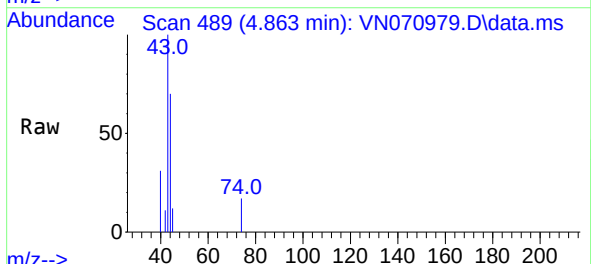
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MSVOA\_N  
ClientSampleId :  
TB01-20220215

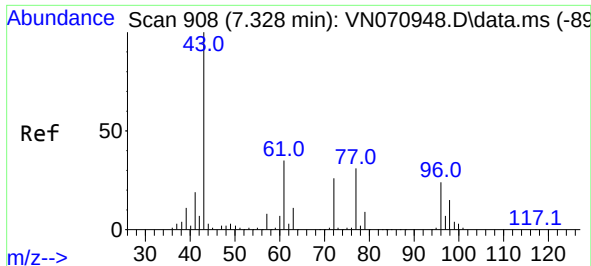
Tgt Ion: 43 Resp: 7083  
Ion Ratio Lower Upper  
43 100  
58 25.6 23.1 34.7



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.863 min Scan# 489  
Delta R.T. 0.018 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion: 43 Resp: 4179  
Ion Ratio Lower Upper  
43 100  
74 9.7 19.4 29.2#





#25

2-Butanone

Concen: 0.383 ug/l

RT: 7.345 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN070979.D

Acq: 17 Feb 2022 15:04

Instrument :

MSVOA\_N

ClientSampleId :

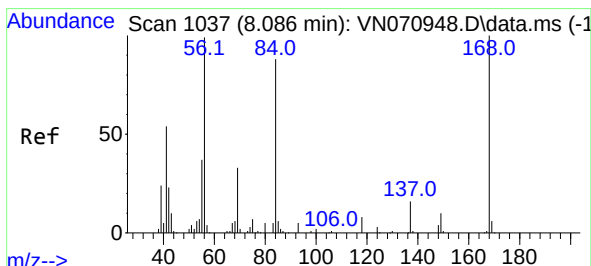
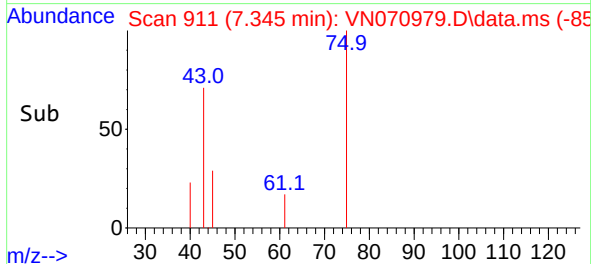
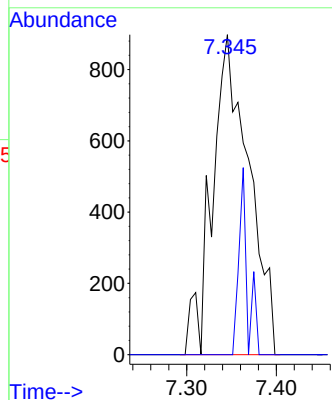
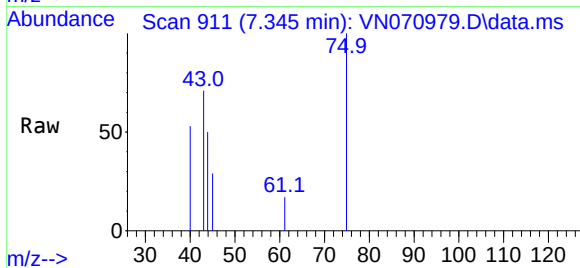
TB01-20220215

Tgt Ion: 43 Resp: 2550

Ion Ratio Lower Upper

43 100

72 0.0 21.7 32.5#



#31

Cyclohexane

Concen: 0.993 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VN070979.D

Acq: 17 Feb 2022 15:04

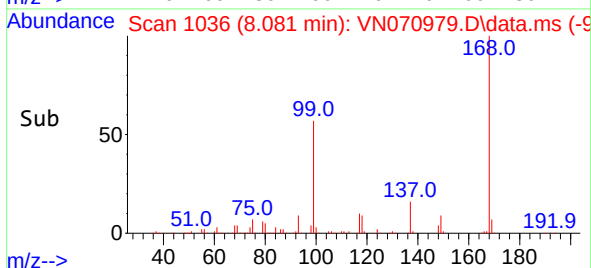
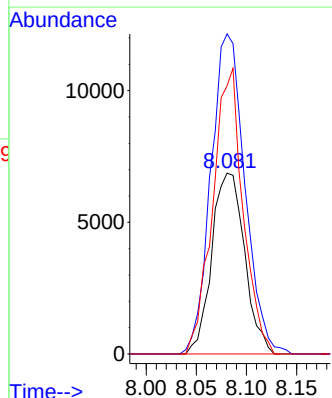
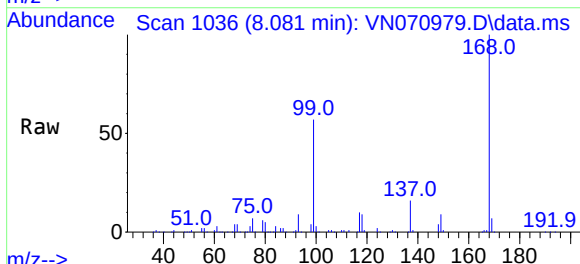
Tgt Ion: 56 Resp: 15625

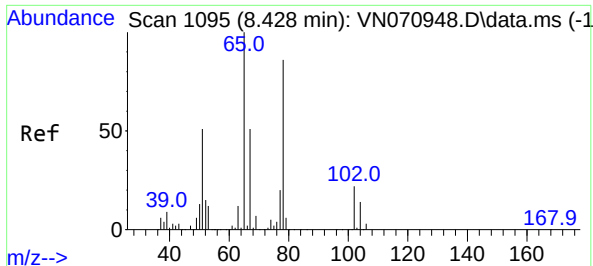
Ion Ratio Lower Upper

56 100

69 177.0 27.1 40.7#

84 148.3 73.4 110.0#

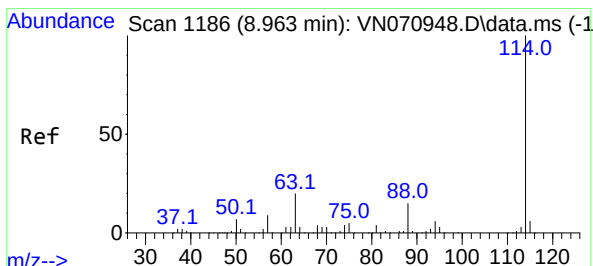
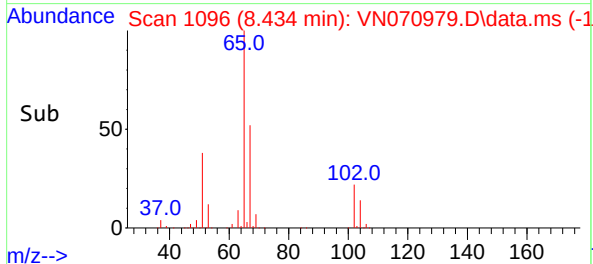
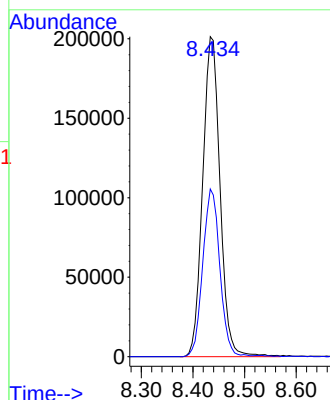
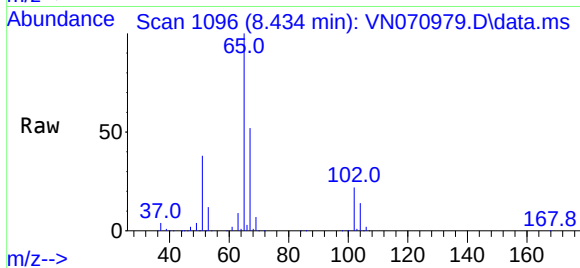




#33  
1,2-Dichloroethane-d4  
Concen: 51.644 ug/l  
RT: 8.434 min Scan# 1095  
Delta R.T. 0.006 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

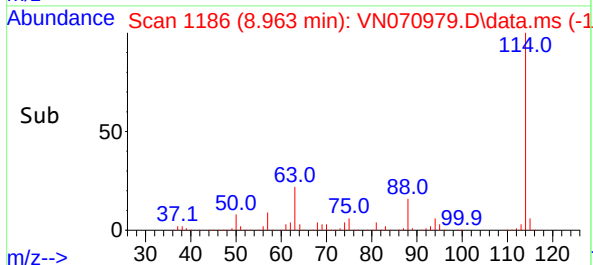
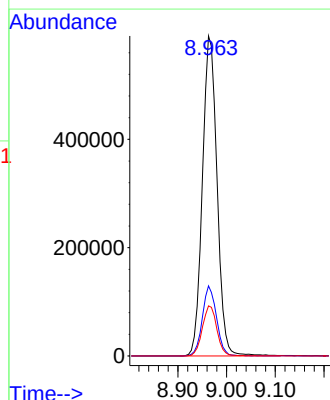
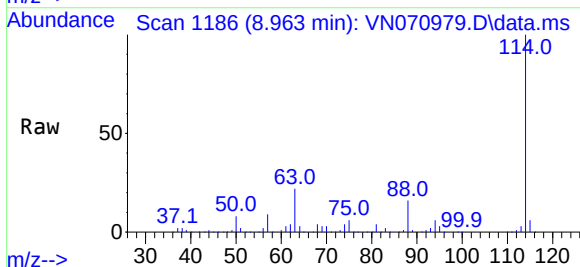
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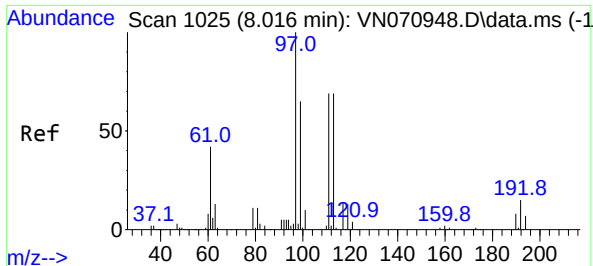
Tgt Ion: 65 Resp: 469893  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 103.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. 0.000 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion:114 Resp: 1235111  
Ion Ratio Lower Upper  
114 100  
63 21.9 0.0 37.8  
88 15.7 0.0 27.4

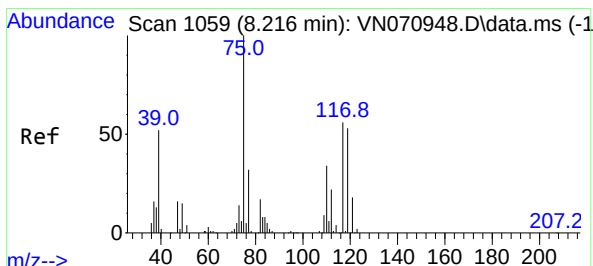
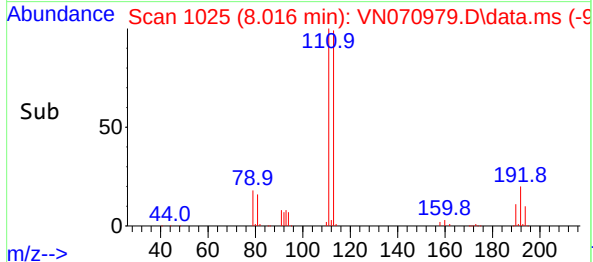
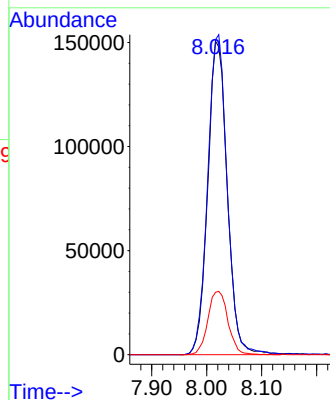
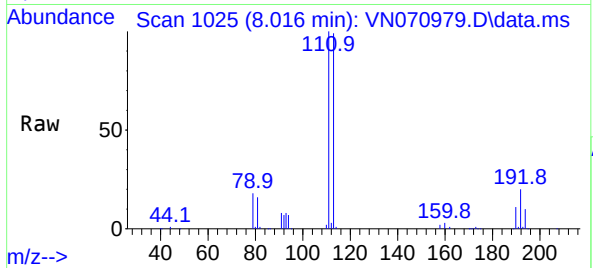




#35  
Dibromofluoromethane  
Concen: 50.486 ug/l  
RT: 8.016 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

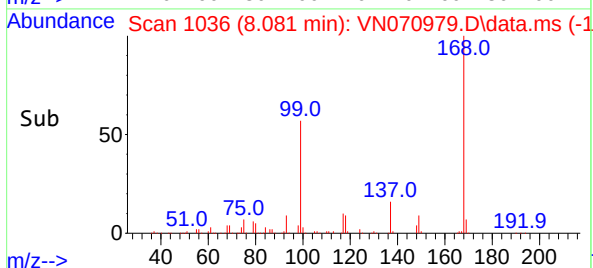
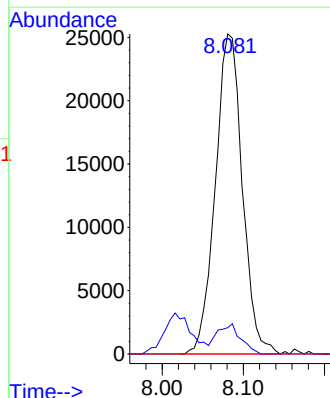
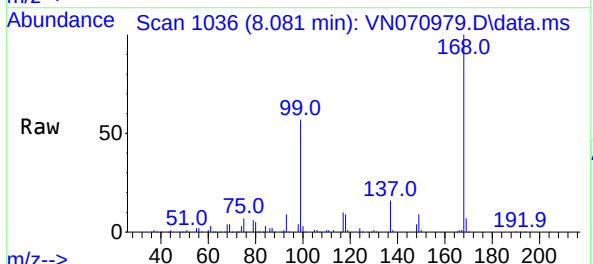
Instrument :  
MSVOA\_N  
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TB01-20220215

Tgt Ion:113 Resp: 370892  
Ion Ratio Lower Upper  
113 100  
111 102.4 82.2 123.2  
192 20.8 16.9 25.3

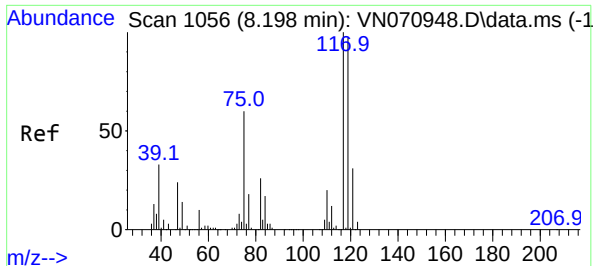


#36  
1,1-Dichloropropene  
Concen: 4.853 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.135 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion: 75 Resp: 58416  
Ion Ratio Lower Upper  
75 100  
110 8.2 18.4 55.2#  
77 0.0 24.4 36.6#



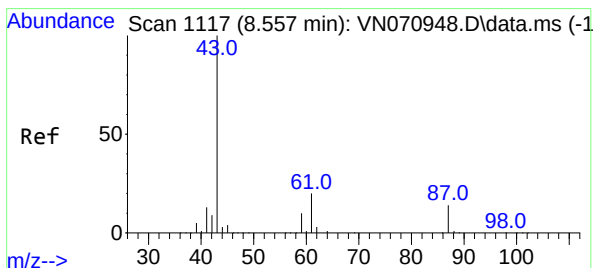
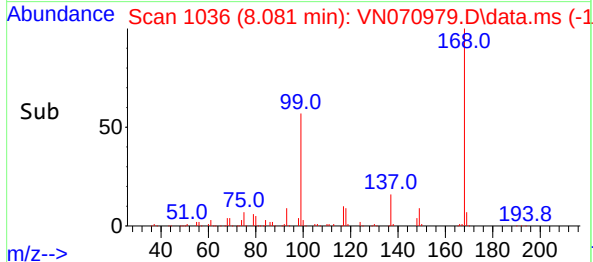
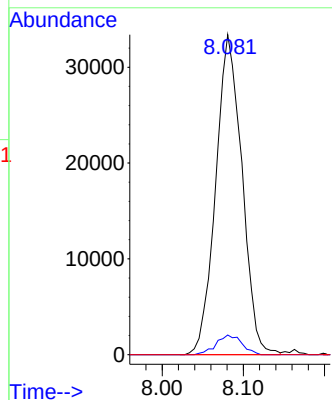
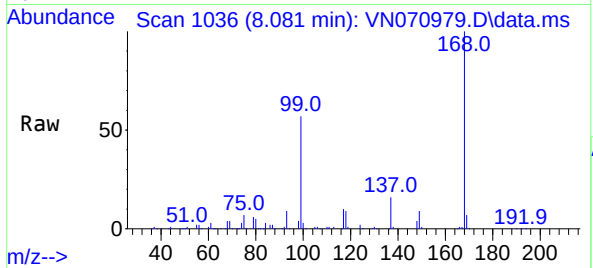




#38  
Carbon Tetrachloride  
Concen: 6.335 ug/l  
RT: 8.081 min Scan# 1134  
Delta R.T. -0.118 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

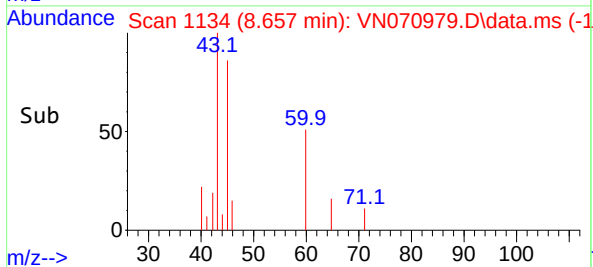
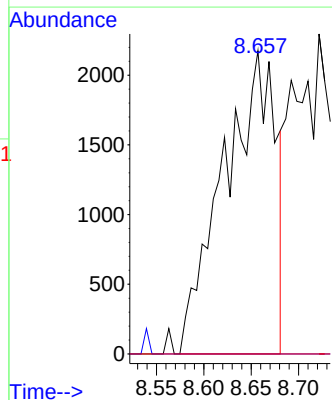
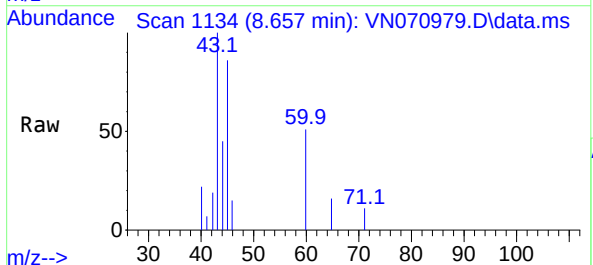
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-20220215

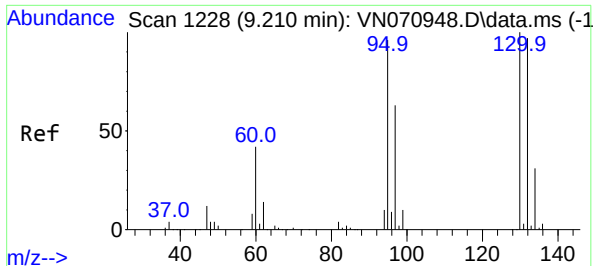
Tgt Ion:117 Resp: 75129  
Ion Ratio Lower Upper  
117 100  
119 6.2 76.1 114.1#  
121 0.0 24.2 36.2#



#43  
Isopropyl Acetate  
Concen: 0.407 ug/l  
RT: 8.657 min Scan# 1134  
Delta R.T. 0.100 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion: 43 Resp: 8271  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 11.2 16.8#

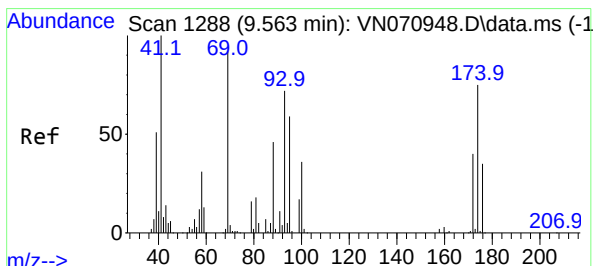
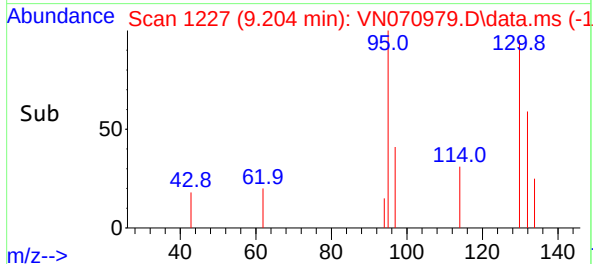
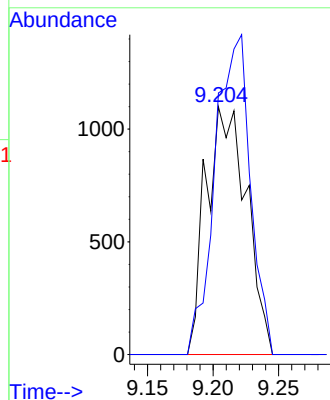
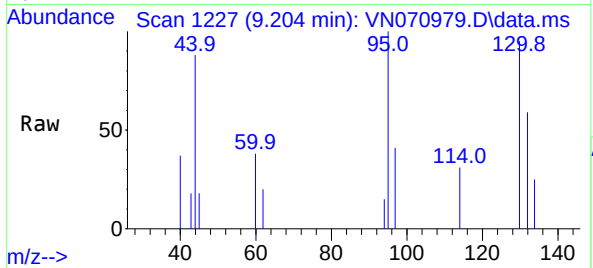




#44  
Trichloroethene  
Concen: 0.253 ug/l  
RT: 9.204 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

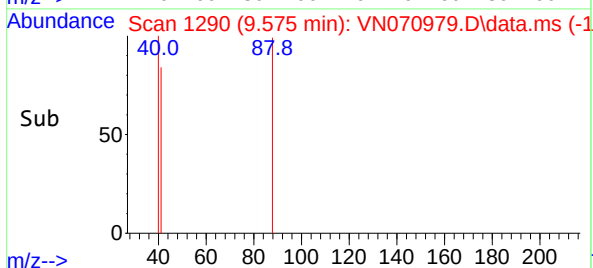
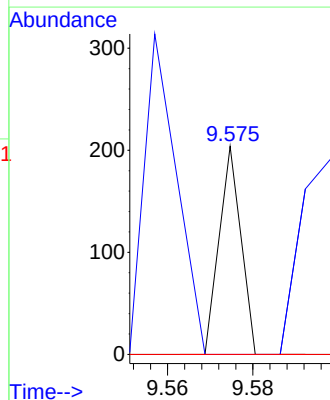
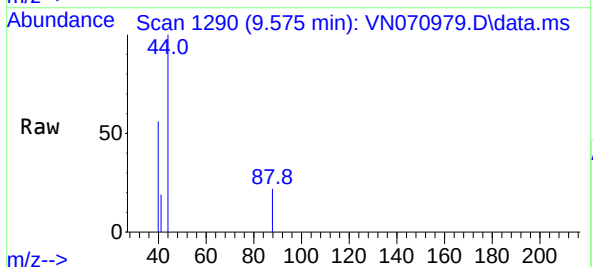
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-20220215

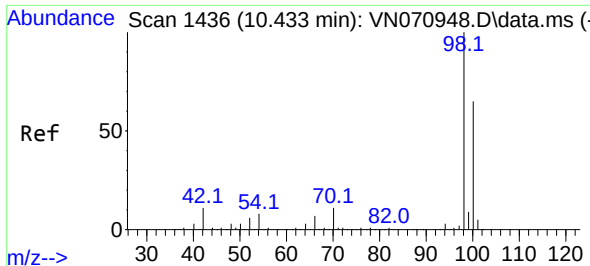
Tgt Ion:130 Resp: 2371  
Ion Ratio Lower Upper  
130 100  
95 105.6 0.0 191.2



#49  
1,4-Dioxane  
Concen: 0.421 ug/l  
RT: 9.575 min Scan# 1290  
Delta R.T. 0.012 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion: 88 Resp: 72  
Ion Ratio Lower Upper  
88 100  
43 230.6 23.4 35.2#  
58 0.0 50.6 75.8#

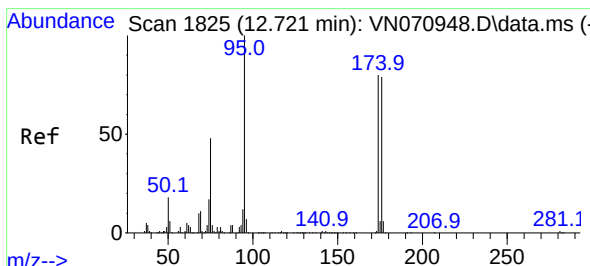
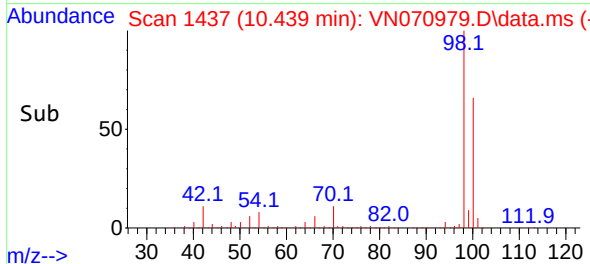
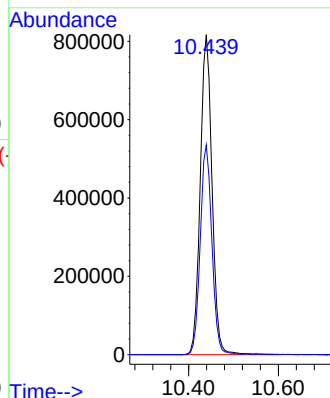
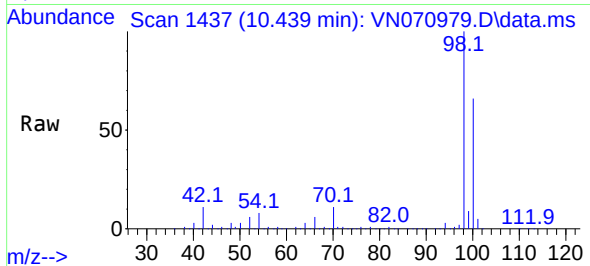




#50  
Toluene-d8  
Concen: 50.331 ug/l  
RT: 10.439 min Scan# 1436  
Delta R.T. 0.006 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

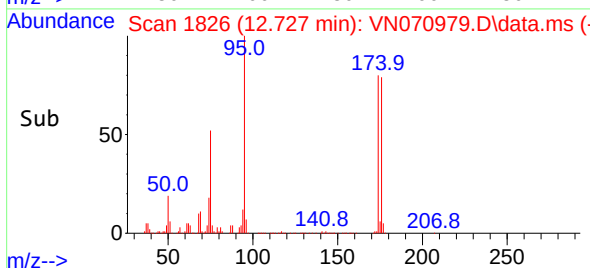
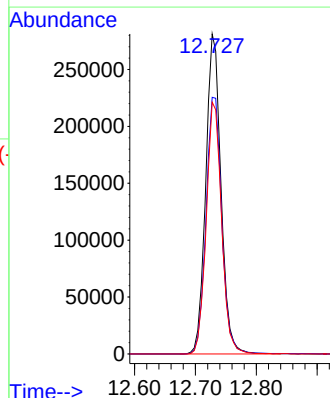
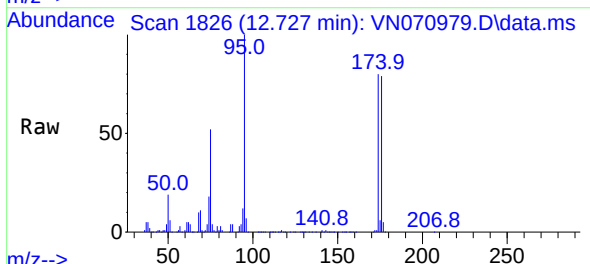
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-20220215

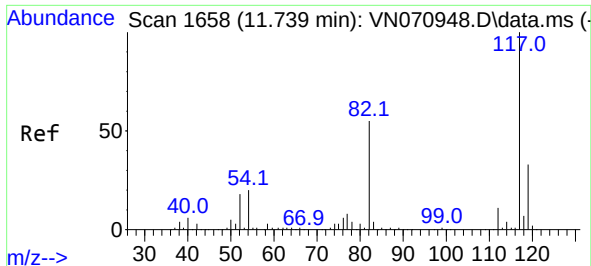
Tgt Ion: 98 Resp: 1484905  
Ion Ratio Lower Upper  
98 100  
100 64.8 50.4 75.6



#62  
4-Bromofluorobenzene  
Concen: 46.246 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.006 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion: 95 Resp: 487689  
Ion Ratio Lower Upper  
95 100  
174 83.3 0.0 187.2  
176 79.3 0.0 181.4

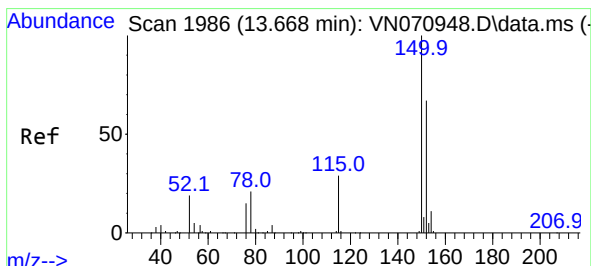
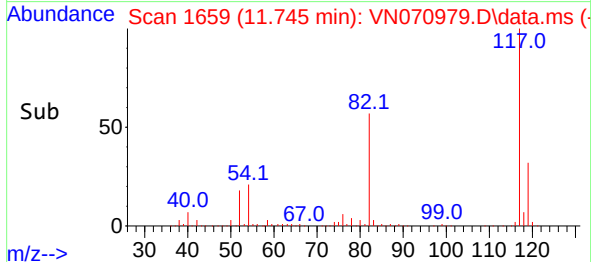
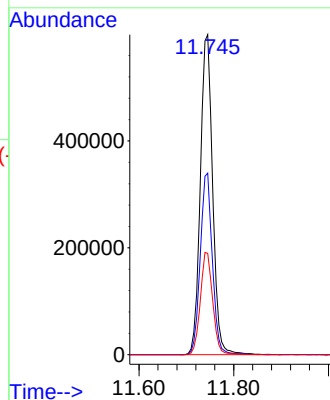
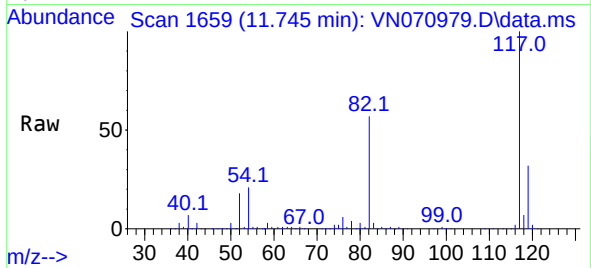




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.745 min Scan# 1170  
Delta R.T. 0.006 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

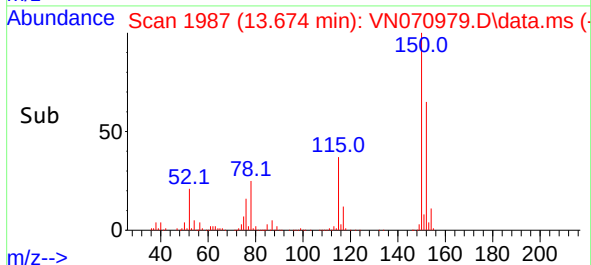
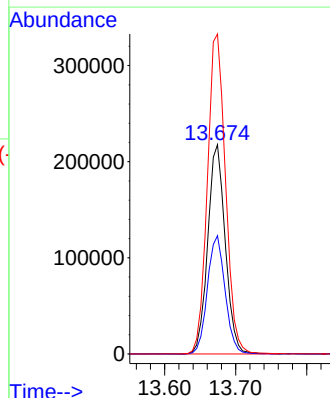
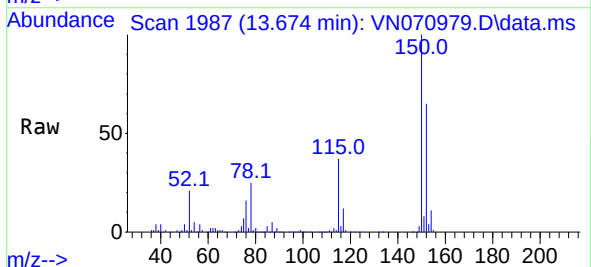
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-20220215

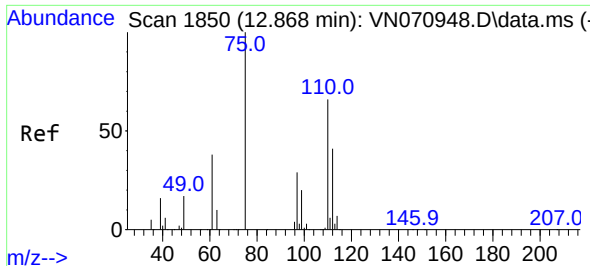
Tgt Ion:117 Resp: 1083222  
Ion Ratio Lower Upper  
117 100  
82 56.7 42.4 63.6  
119 31.7 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.674 min Scan# 1987  
Delta R.T. 0.006 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion:152 Resp: 373822  
Ion Ratio Lower Upper  
152 100  
115 57.0 27.5 82.5  
150 158.0 0.0 344.4

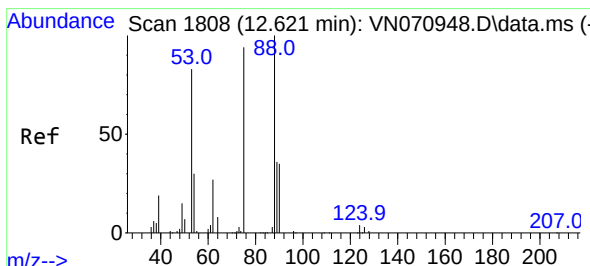
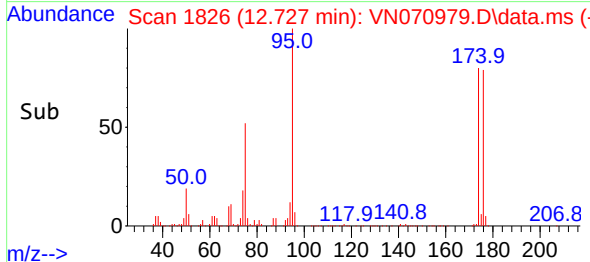
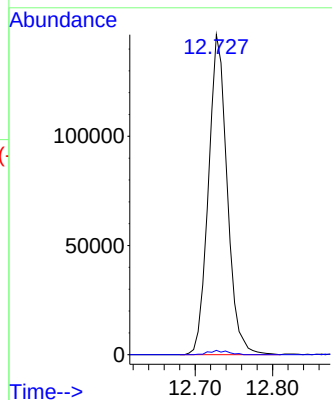
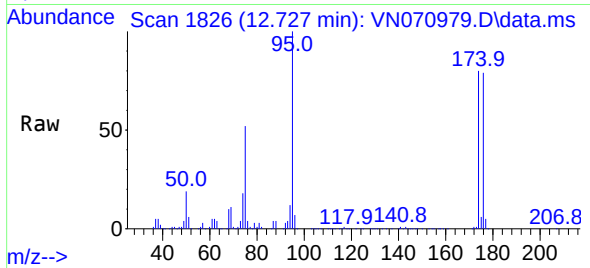




#76  
1,2,3-Trichloropropane  
Concen: 28.017 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.141 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

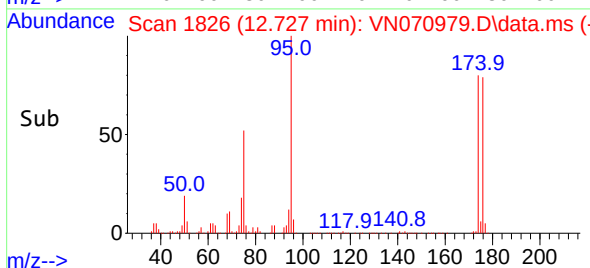
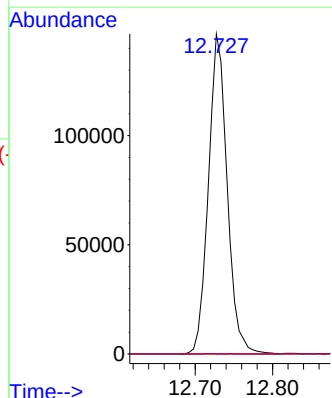
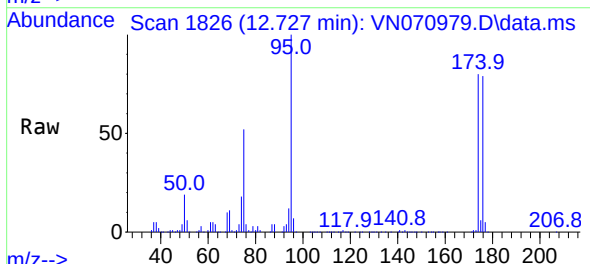
Instrument :  
MSVOA\_N  
ClientSampleId :  
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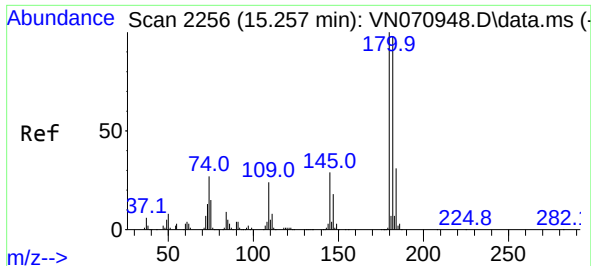
Tgt Ion: 75 Resp: 246596  
Ion Ratio Lower Upper  
75 100  
77 1.4 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 90.788 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.106 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

Tgt Ion: 75 Resp: 246596  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#

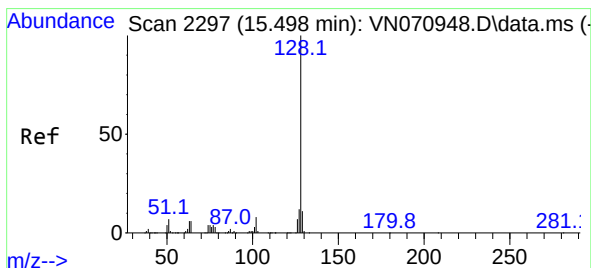
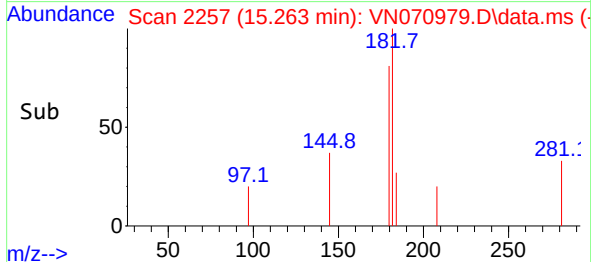
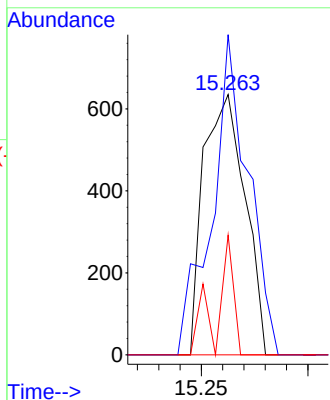
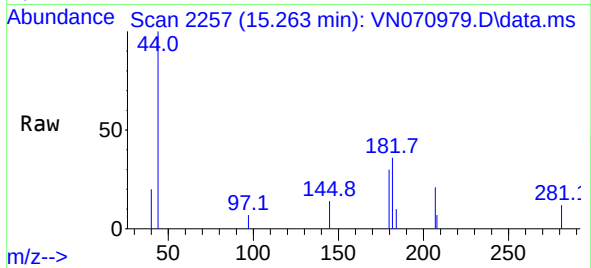




#93  
1,2,4-Trichlorobenzene  
Concen: 2.119 ug/l  
RT: 15.263 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

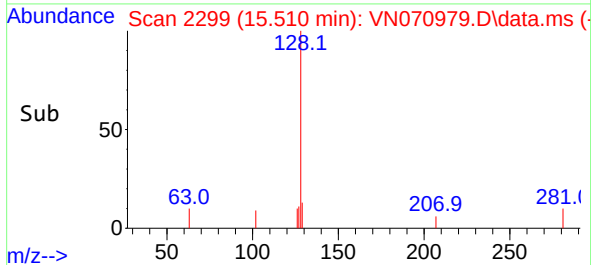
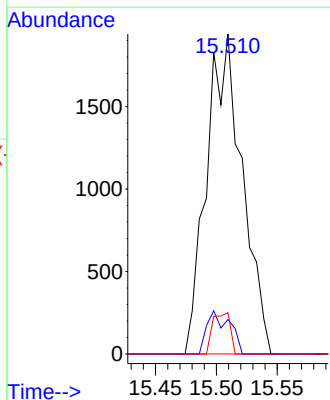
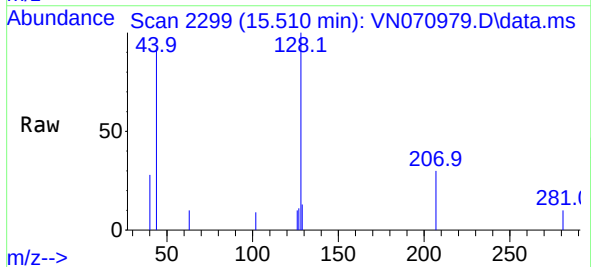
Instrument :  
MSVOA\_N  
ClientSampleId :  
TB01-20220215

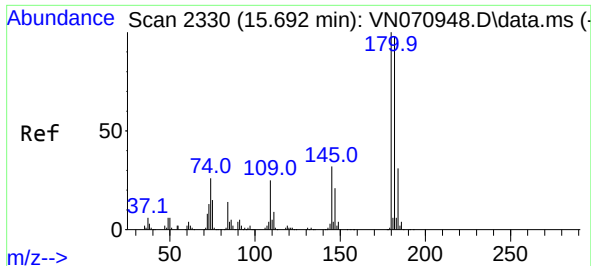
Tgt Ion:180 Resp: 858  
Ion Ratio Lower Upper  
180 100  
182 107.6 48.3 144.9  
145 19.1 14.5 43.5



#95  
Naphthalene  
Concen: 5.202 ug/l  
RT: 15.510 min Scan# 2299  
Delta R.T. 0.012 min  
Lab File: VN070979.D  
Acq: 17 Feb 2022 15:04

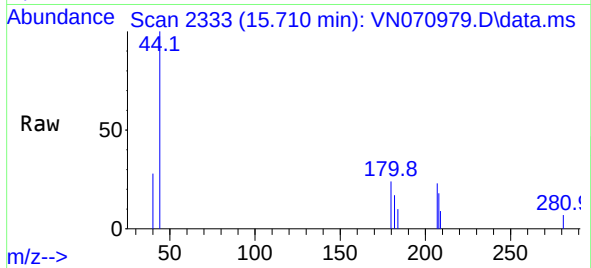
Tgt Ion:128 Resp: 3948  
Ion Ratio Lower Upper  
128 100  
127 8.5 10.5 15.7#  
129 6.3 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.674 ug/l  
 RT: 15.710 min Scan# 21  
 Delta R.T. 0.018 min  
 Lab File: VN070979.D  
 Acq: 17 Feb 2022 15:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB01-20220215



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1055  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 80.1  | 47.4  | 142.2 |
| 145      | 27.1  | 15.0  | 45.1  |

