

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080123\  
 Data File : VX036745.D  
 Acq On : 01 Aug 2023 13:49  
 Operator : JC/MD  
 Sample : 03808-07DL 20X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 1714DL

Quant Time: Aug 02 06:24:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.550  | 168  | 138652   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 246971   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 219540   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 92322    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 5.958  | 65    | 92837    | 45.252   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 90.500% |
| 35) Dibromofluoromethane    | 5.385  | 113   | 79018    | 46.549   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 93.100% |
| 50) Toluene-d8              | 8.647  | 98    | 293709   | 48.790   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 97.580% |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 102813   | 45.268   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 90.540% |

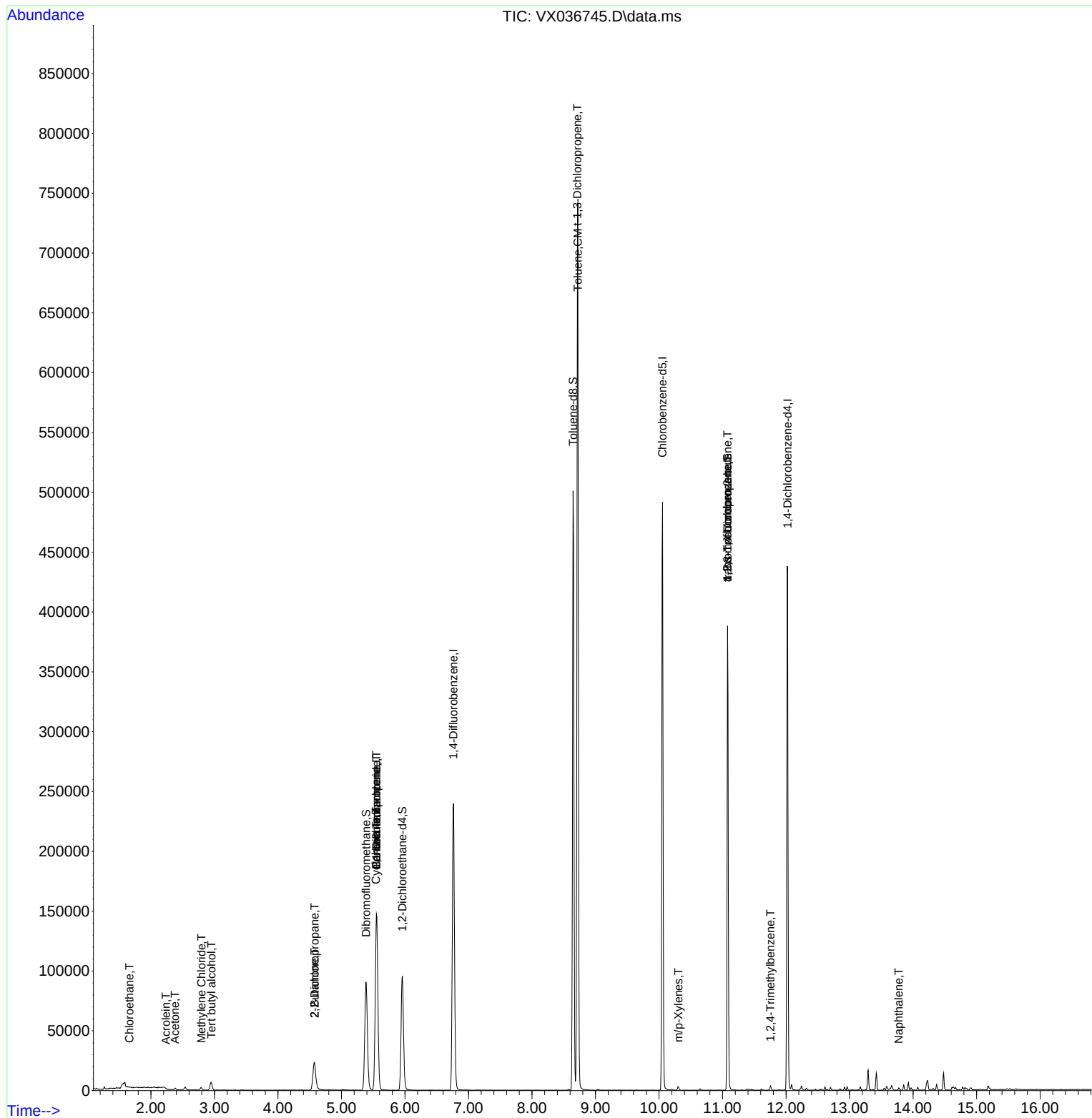
|                               |        |     |        |        |        |    |
|-------------------------------|--------|-----|--------|--------|--------|----|
| Target Compounds              |        |     | Qvalue |        |        |    |
| 6) Chloroethane               | 1.660  | 64  | 305    | 0.370  | ug/l # | 43 |
| 11) Tert butyl alcohol        | 2.953  | 59  | 4134   | 8.512  | ug/l # | 83 |
| 13) Acrolein                  | 2.233  | 56  | 92     | 0.332  | ug/l # | 41 |
| 16) Acetone                   | 2.380  | 43  | 1708   | 2.006  | ug/l   | 97 |
| 20) Methylene Chloride        | 2.794  | 84  | 1118   | 0.591  | ug/l # | 71 |
| 25) 2-Butanone                | 4.574  | 43  | 2745   | 1.987  | ug/l   | 97 |
| 26) 2,2-Dichloropropane       | 4.574  | 77  | 1820   | 0.593  | ug/l # | 54 |
| 31) Cyclohexane               | 5.544  | 56  | 3169   | 1.116  | ug/l # | 5  |
| 36) 1,1-Dichloropropene       | 5.550  | 75  | 11382  | 4.498  | ug/l # | 51 |
| 38) Carbon Tetrachloride      | 5.550  | 117 | 14659  | 5.450  | ug/l # | 16 |
| 52) Toluene                   | 8.720  | 92  | 277684 | 60.202 | ug/l   | 96 |
| 53) t-1,3-Dichloropropene     | 8.714  | 75  | 3264   | 1.023  | ug/l # | 1  |
| 68) m/p-Xylenes               | 10.305 | 106 | 773    | 0.234  | ug/l   | 90 |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75  | 54233  | 24.975 | ug/l # | 38 |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75  | 54233  | 56.607 | ug/l # | 5  |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105 | 1951   | 0.305  | ug/l   | 92 |
| 95) Naphthalene               | 13.774 | 128 | 1519   | 0.228  | ug/l # | 94 |

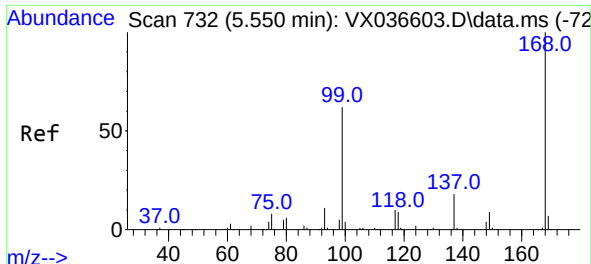
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080123\  
Data File : VX036745.D  
Acq On : 01 Aug 2023 13:49  
Operator : JC/MD  
Sample : 03808-07DL 20X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
1714DL

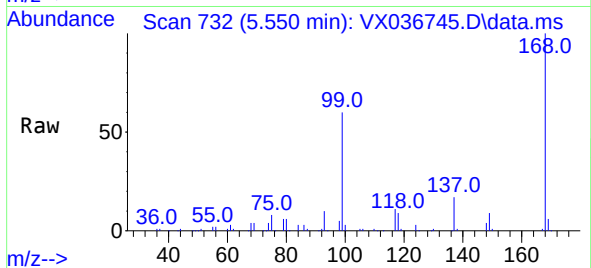
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 21 12:14:12 2023  
Response via : Initial Calibration



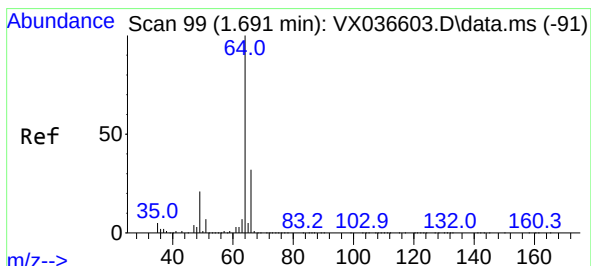
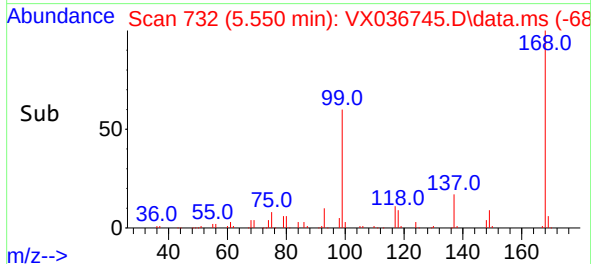
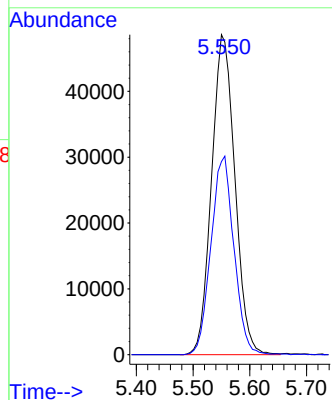


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
1714DL

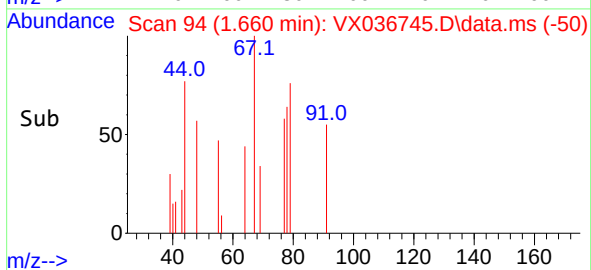
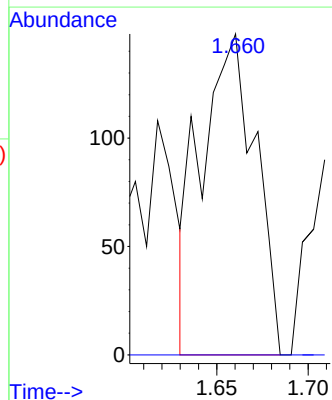
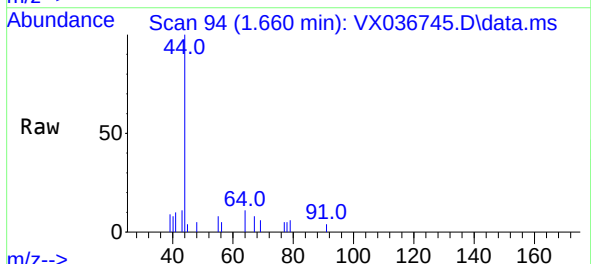


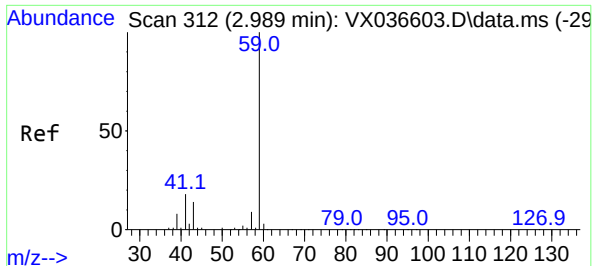
Tgt Ion:168 Resp: 138652  
Ion Ratio Lower Upper  
168 100  
99 60.4 56.6 85.0



#6  
Chloroethane  
Concen: 0.370 ug/l  
RT: 1.660 min Scan# 94  
Delta R.T. -0.030 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Tgt Ion: 64 Resp: 305  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#

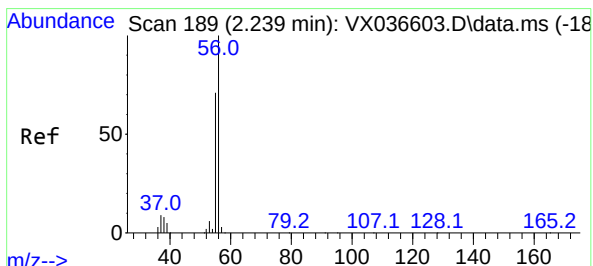
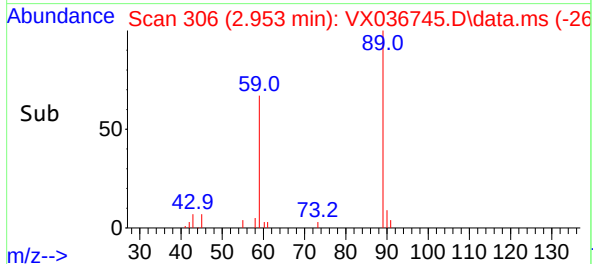
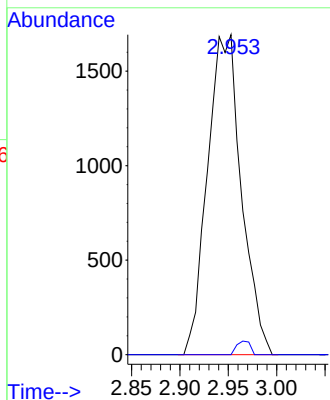
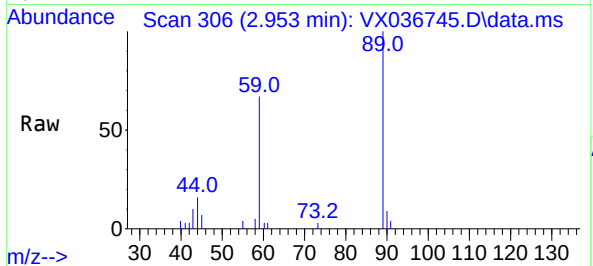




#11  
Tert butyl alcohol  
Concen: 8.512 ug/l  
RT: 2.953 min Scan# 30  
Delta R.T. -0.036 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

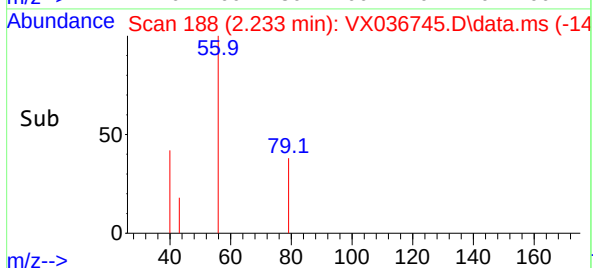
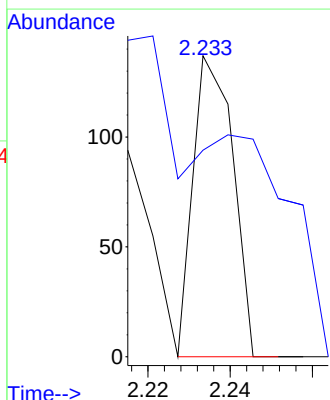
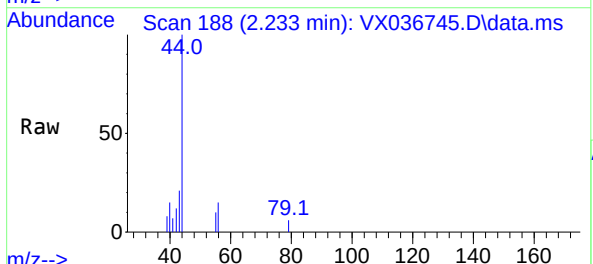
Instrument :  
MSVOA\_X  
ClientSampleId :  
1714DL

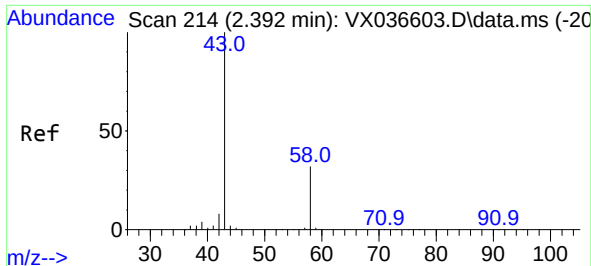
Tgt Ion: 59 Resp: 4134  
Ion Ratio Lower Upper  
59 100  
57 1.7 6.0 9.0#



#13  
Acrolein  
Concen: 0.332 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. -0.006 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Tgt Ion: 56 Resp: 92  
Ion Ratio Lower Upper  
56 100  
55 120.7 57.1 85.7#

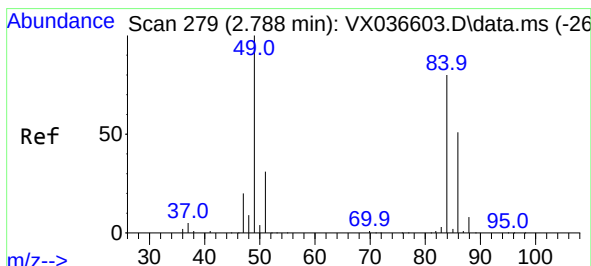
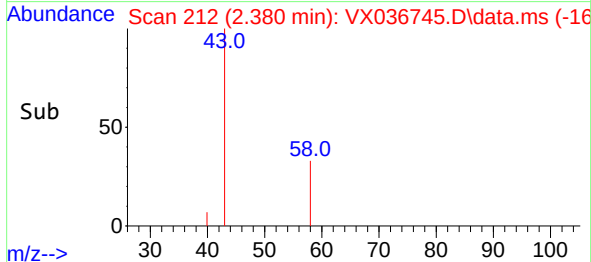
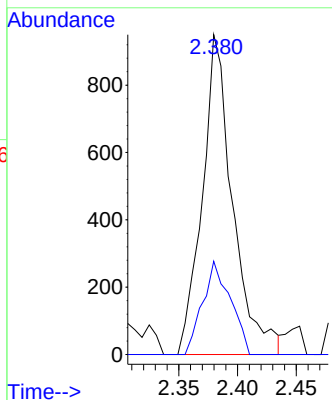
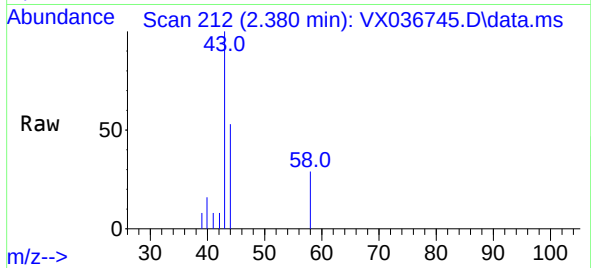




#16  
Acetone  
Concen: 2.006 ug/l  
RT: 2.380 min Scan# 214  
Delta R.T. -0.012 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

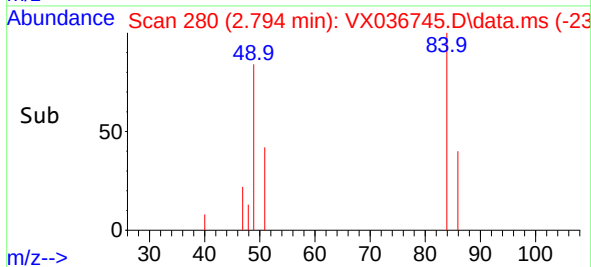
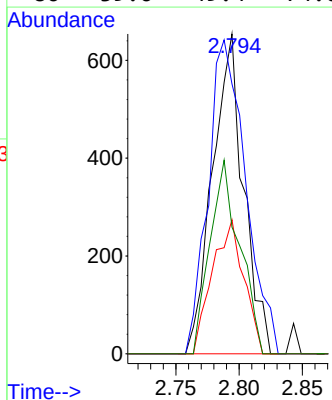
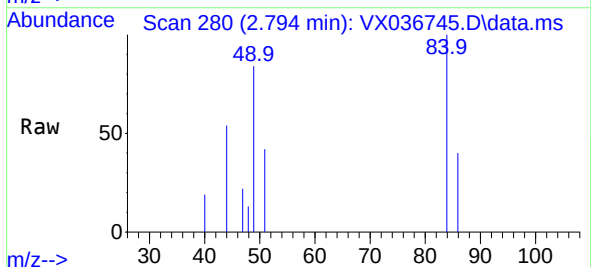
Instrument :  
MSVOA\_X  
ClientSampleId :  
1714DL

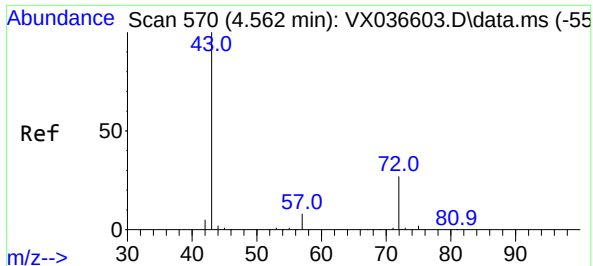
Tgt Ion: 43 Resp: 1708  
Ion Ratio Lower Upper  
43 100  
58 29.2 21.9 32.9



#20  
Methylene Chloride  
Concen: 0.591 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Tgt Ion: 84 Resp: 1118  
Ion Ratio Lower Upper  
84 100  
49 84.4 103.6 155.4#  
51 41.9 33.8 50.6  
86 39.6 49.4 74.0#





#25

2-Butanone

Concen: 1.987 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX036745.D

Acq: 01 Aug 2023 13:49

Instrument :

MSVOA\_X

ClientSampleId :

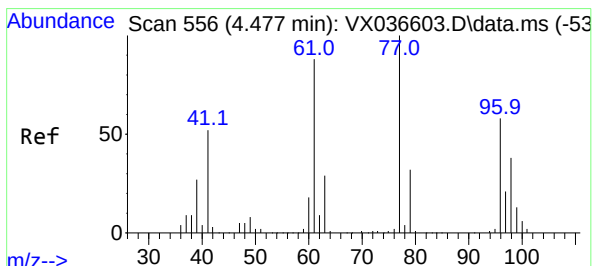
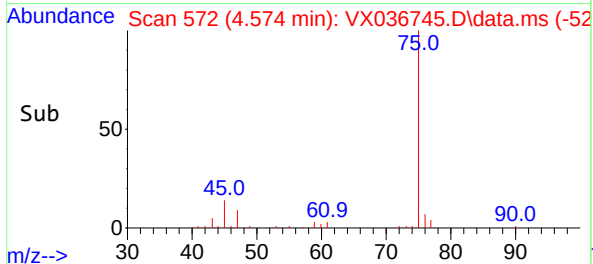
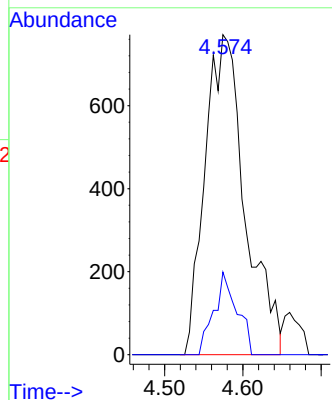
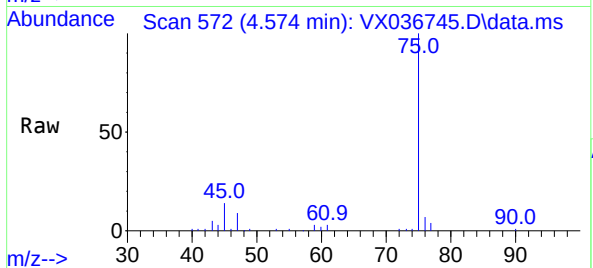
1714DL

Tgt Ion: 43 Resp: 2745

Ion Ratio Lower Upper

43 100

72 25.8 19.4 29.2



#26

2,2-Dichloropropane

Concen: 0.593 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.098 min

Lab File: VX036745.D

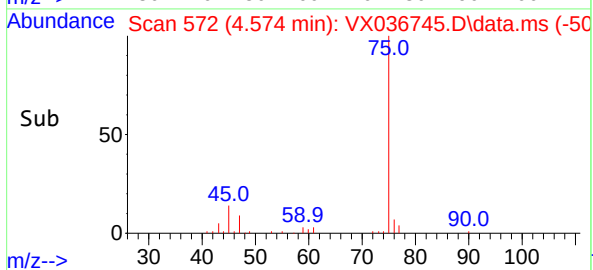
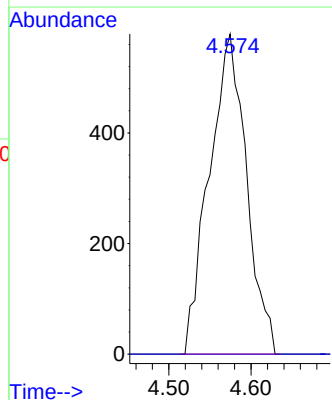
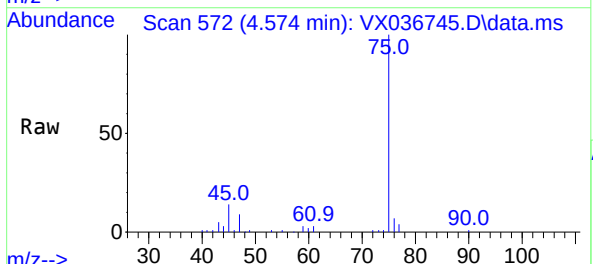
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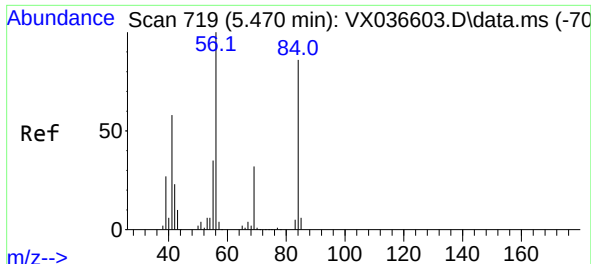
Tgt Ion: 77 Resp: 1820

Ion Ratio Lower Upper

77 100

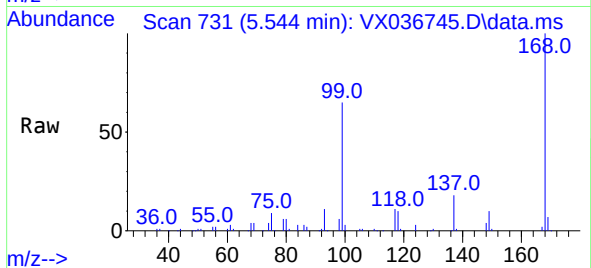
97 0.0 10.8 32.3#



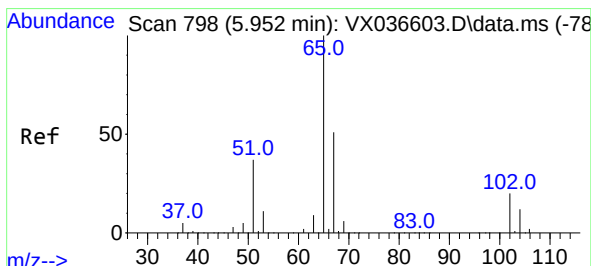
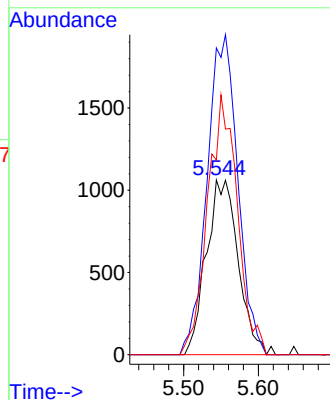
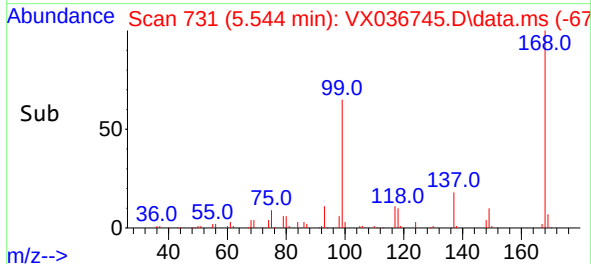


#31  
Cyclohexane  
Concen: 1.116 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

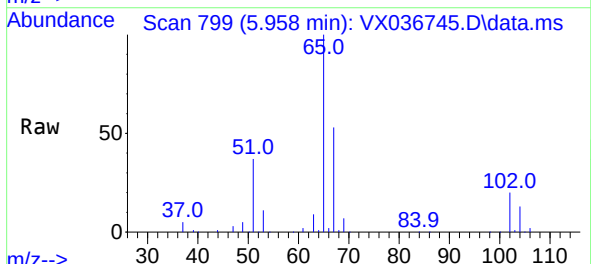
Instrument :  
MSVOA\_X  
ClientSampleId :  
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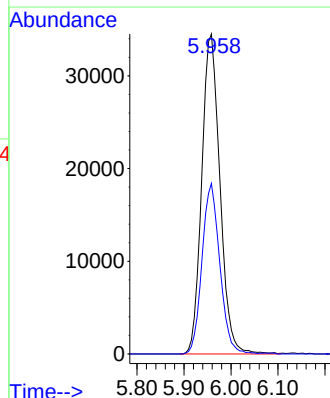
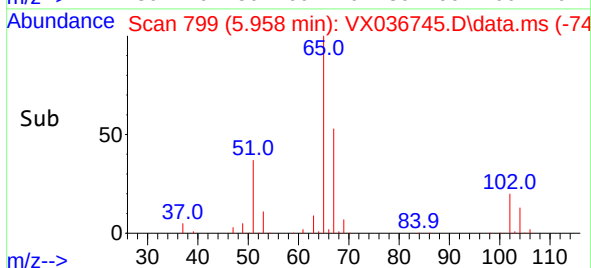
Tgt Ion: 56 Resp: 3169  
Ion Ratio Lower Upper  
56 100  
69 175.4 23.4 35.2#  
84 111.4 65.9 98.9#

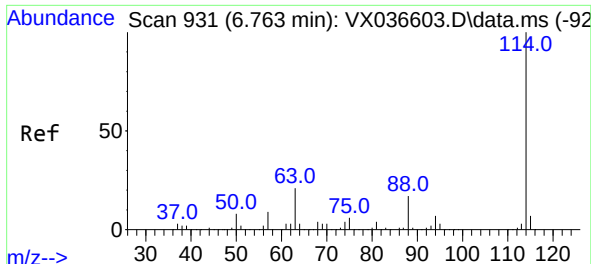


#33  
1,2-Dichloroethane-d4  
Concen: 45.252 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49



Tgt Ion: 65 Resp: 92837  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 100.2

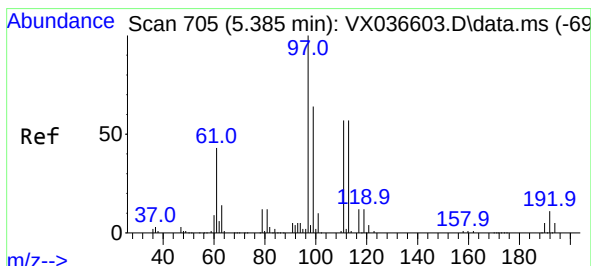
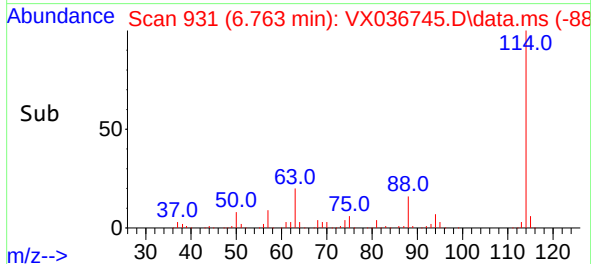
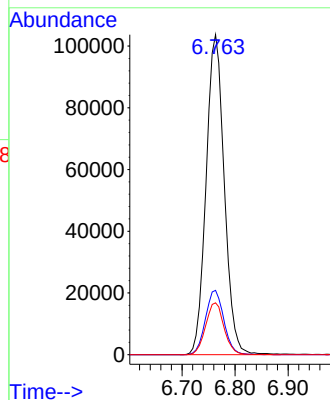
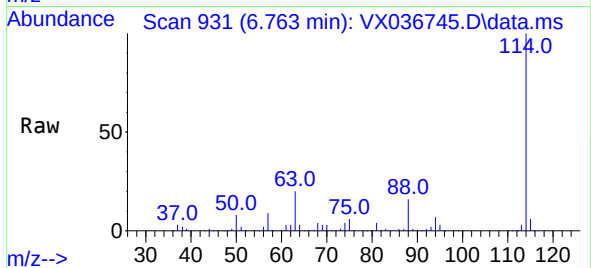




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

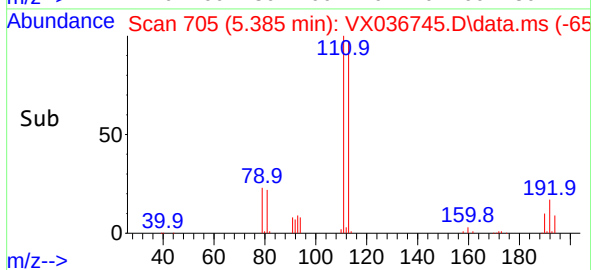
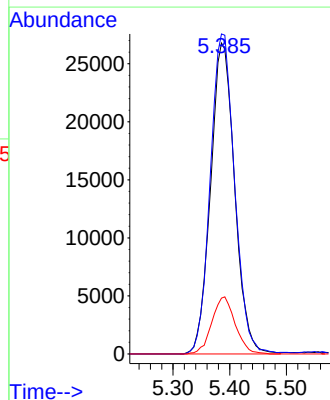
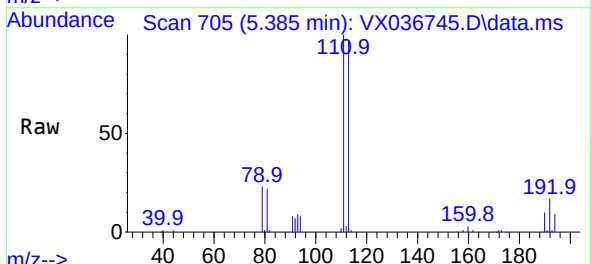
Instrument :  
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Tgt Ion:114 Resp: 246971  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 45.0  
88 16.2 0.0 36.6

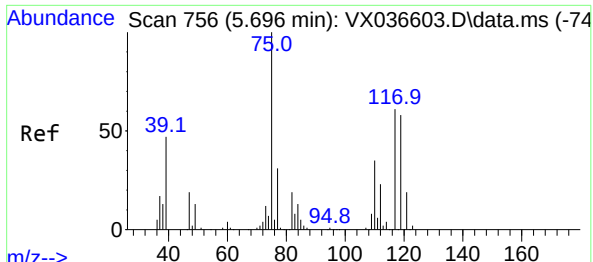


#35  
Dibromofluoromethane  
Concen: 46.549 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Tgt Ion:113 Resp: 79018  
Ion Ratio Lower Upper  
113 100  
111 103.7 82.9 124.3  
192 17.8 13.3 19.9



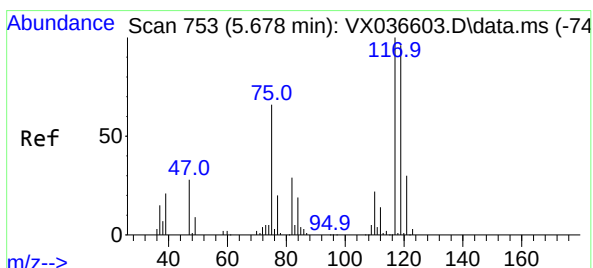
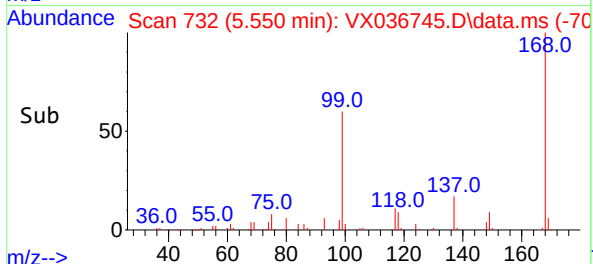
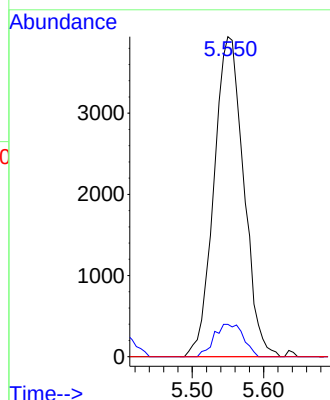
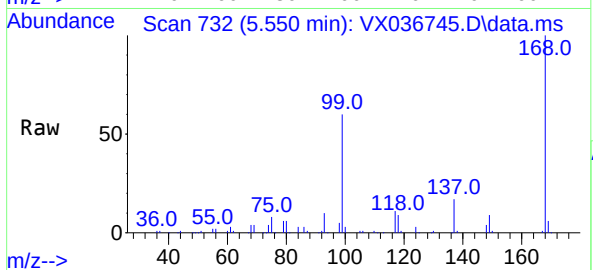




#36  
1,1-Dichloropropene  
Concen: 4.498 ug/l  
RT: 5.550 min Scan# 714  
Delta R.T. -0.146 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

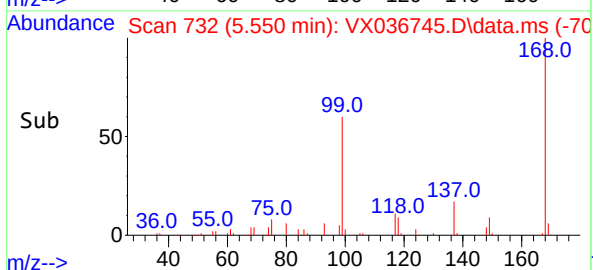
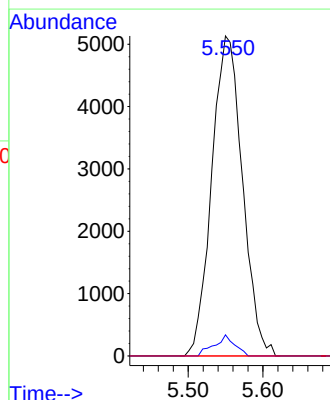
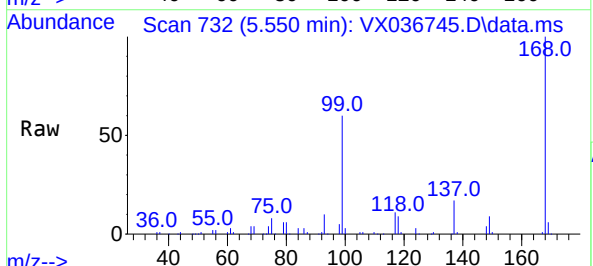
Instrument :  
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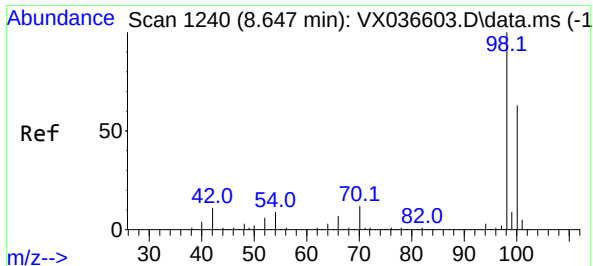
Tgt Ion: 75 Resp: 11382  
Ion Ratio Lower Upper  
75 100  
110 10.0 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 5.450 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.128 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Tgt Ion: 117 Resp: 14659  
Ion Ratio Lower Upper  
117 100  
119 6.6 78.2 117.2#  
121 0.0 24.4 36.6#

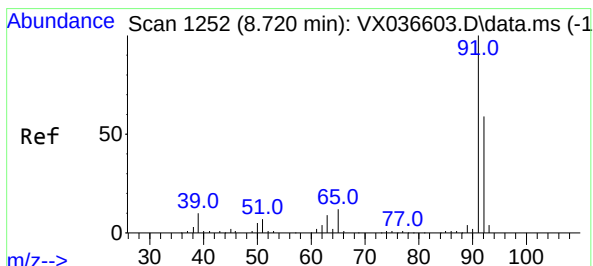
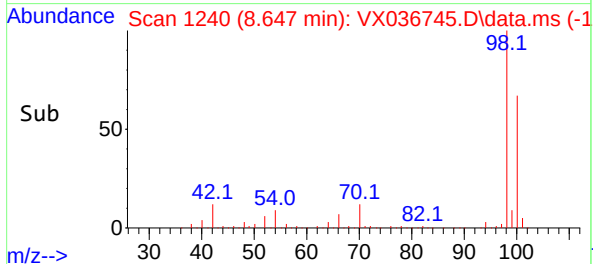
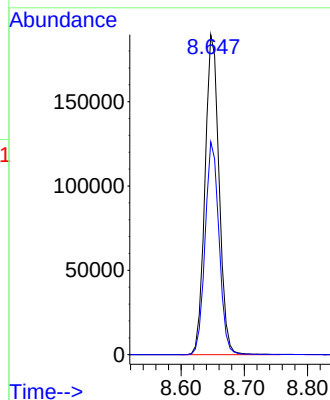
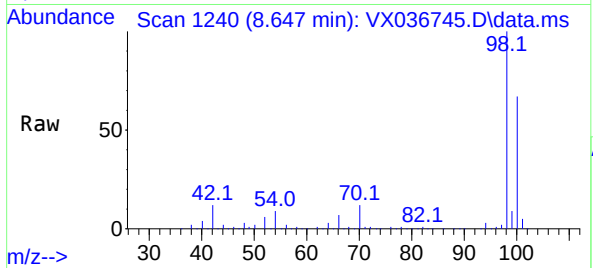




#50  
Toluene-d8  
Concen: 48.790 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

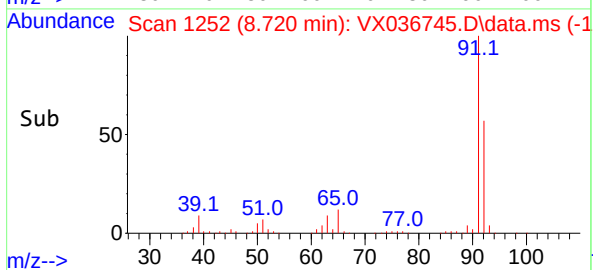
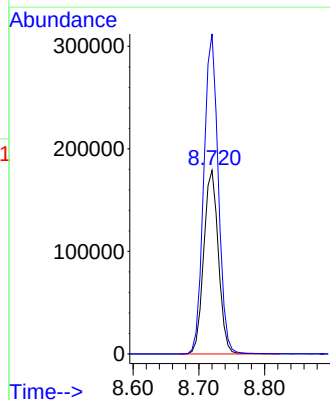
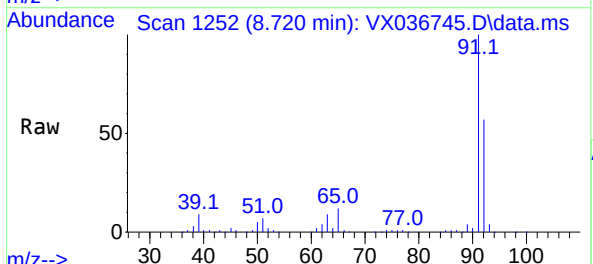
Instrument :  
MSVOA\_X  
ClientSampleId :  
1714DL

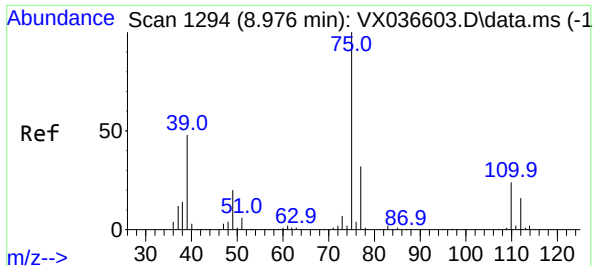
Tgt Ion: 98 Resp: 293709  
Ion Ratio Lower Upper  
98 100  
100 66.0 53.1 79.7



#52  
Toluene  
Concen: 60.202 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.000 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Tgt Ion: 92 Resp: 277684  
Ion Ratio Lower Upper  
92 100  
91 172.5 134.2 201.2

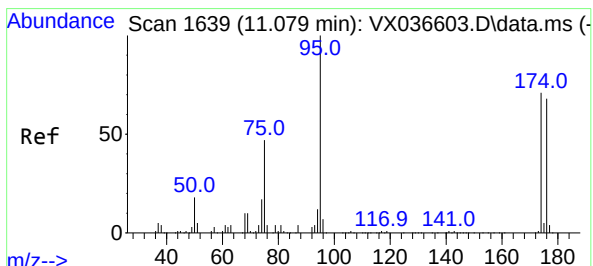
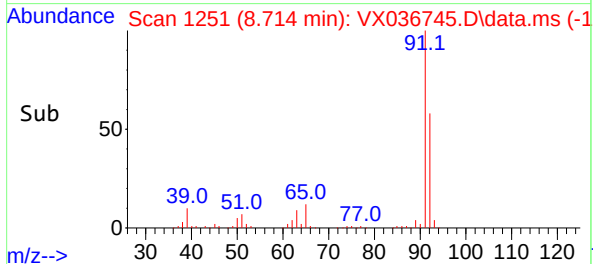
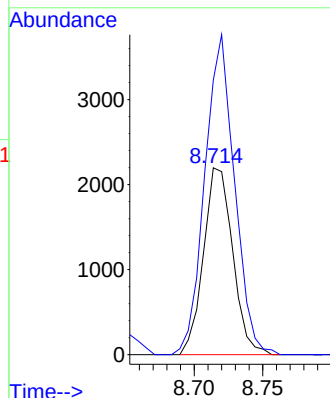
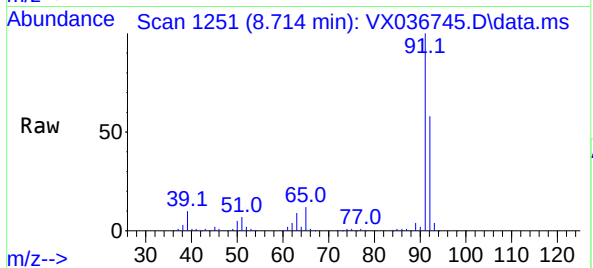




#53  
t-1,3-Dichloropropene  
Concen: 1.023 ug/l  
RT: 8.714 min Scan# 11  
Delta R.T. -0.262 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

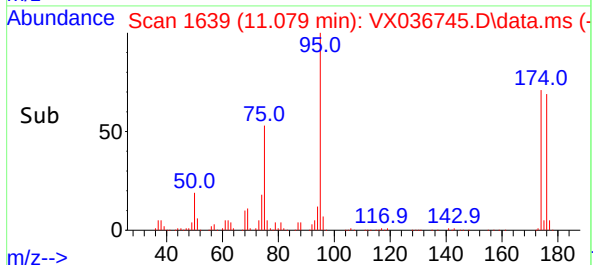
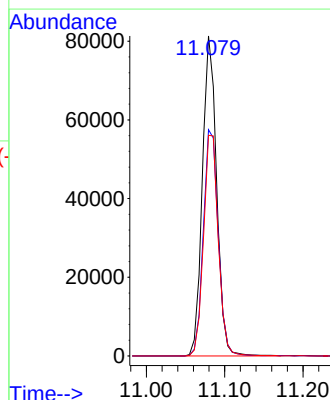
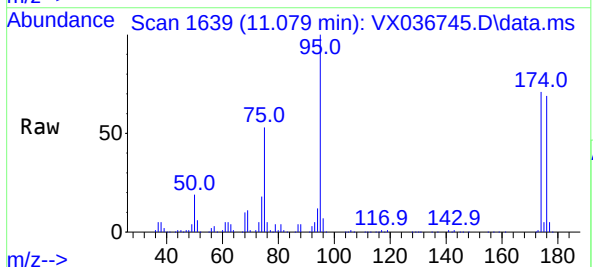
Instrument :  
MSVOA\_X  
ClientSampleId :  
1714DL

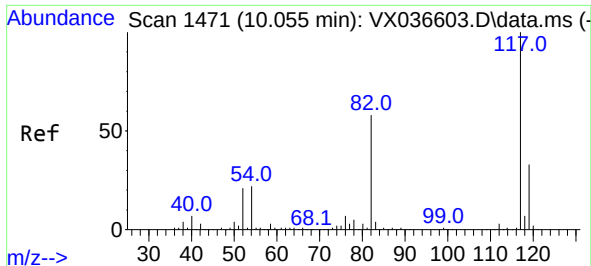
Tgt Ion: 75 Resp: 3264  
Ion Ratio Lower Upper  
75 100  
77 146.9 25.7 38.5#



#62  
4-Bromofluorobenzene  
Concen: 45.268 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Tgt Ion: 95 Resp: 102813  
Ion Ratio Lower Upper  
95 100  
174 73.6 0.0 135.6  
176 71.6 0.0 131.0

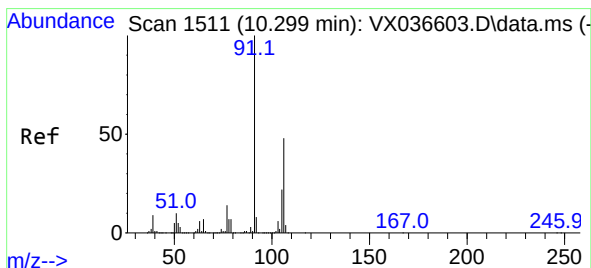
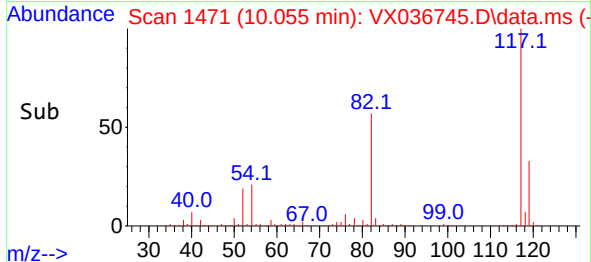
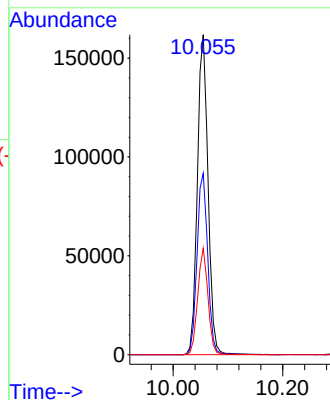
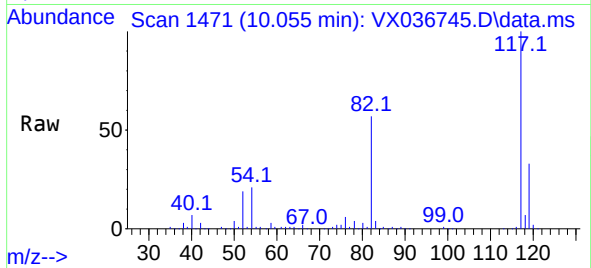




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

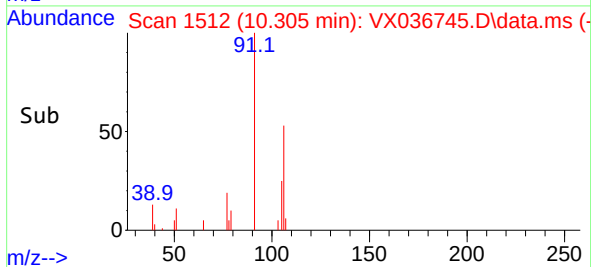
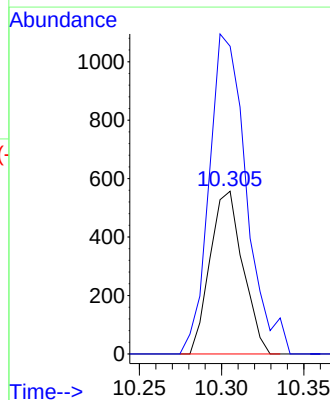
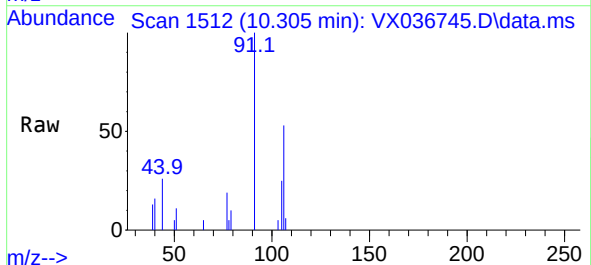
Instrument :  
MSVOA\_X  
ClientSampleId :  
1714DL

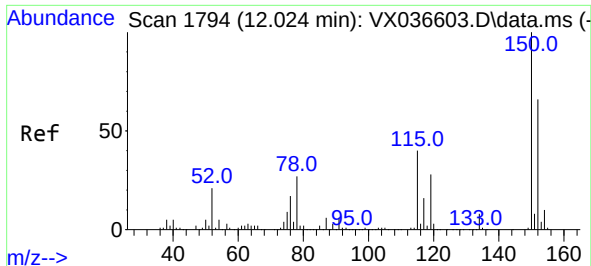
Tgt Ion:117 Resp: 219540  
Ion Ratio Lower Upper  
117 100  
82 56.6 46.2 69.4  
119 33.3 25.5 38.3



#68  
m/p-Xylenes  
Concen: 0.234 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.006 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Tgt Ion:106 Resp: 773  
Ion Ratio Lower Upper  
106 100  
91 222.8 165.5 248.3

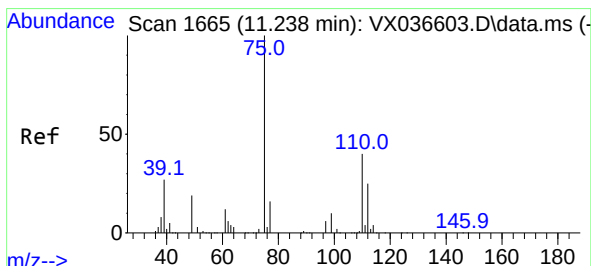
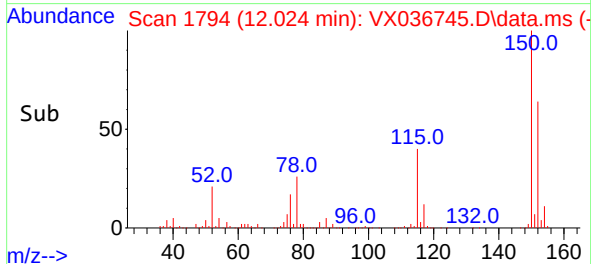
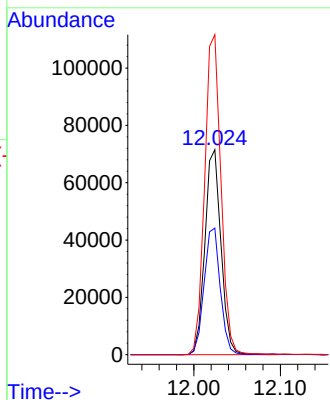
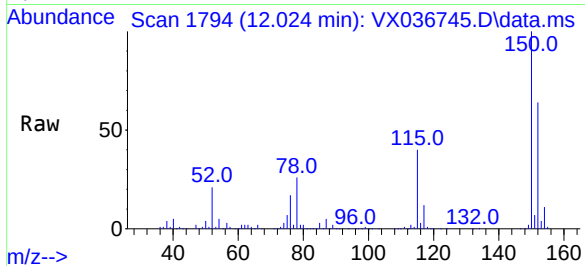




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

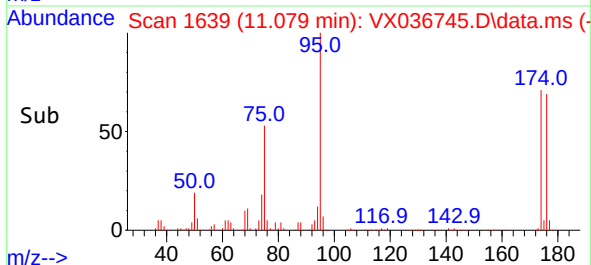
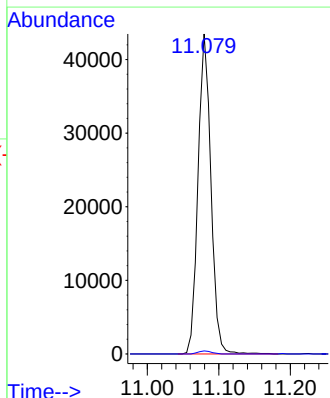
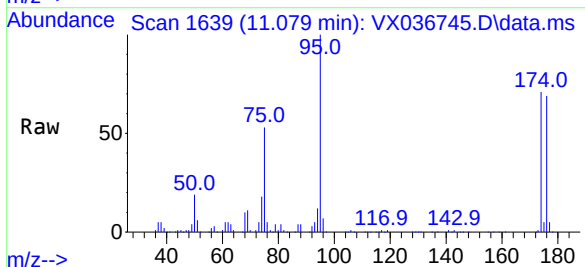
Instrument :  
MSVOA\_X  
ClientSampleId :  
1714DL

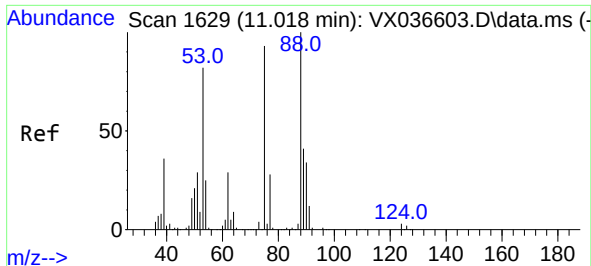
Tgt Ion:152 Resp: 92322  
Ion Ratio Lower Upper  
152 100  
115 62.2 43.3 129.9  
150 157.8 0.0 345.0



#76  
1,2,3-Trichloropropane  
Concen: 24.975 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

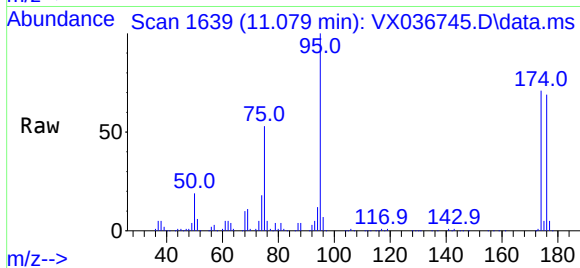
Tgt Ion: 75 Resp: 54233  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



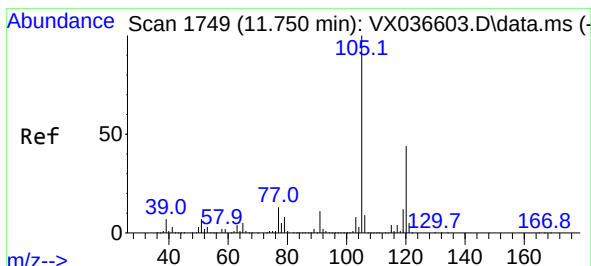
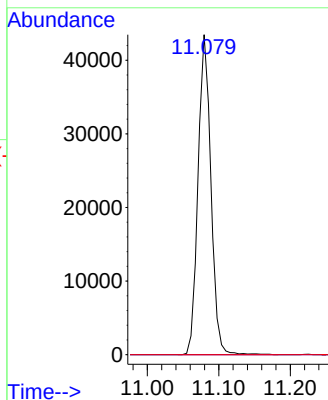
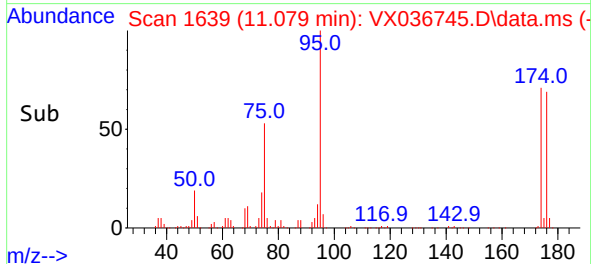


#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.607 ug/l  
RT: 11.079 min Scan# 1714DL  
Delta R.T. 0.061 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Instrument :  
MSVOA\_X  
ClientSampleId :

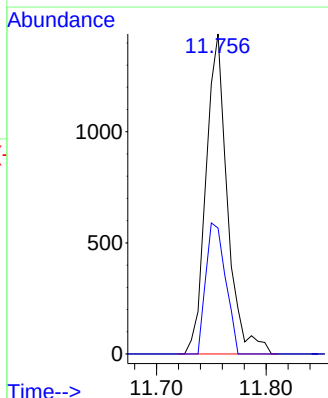
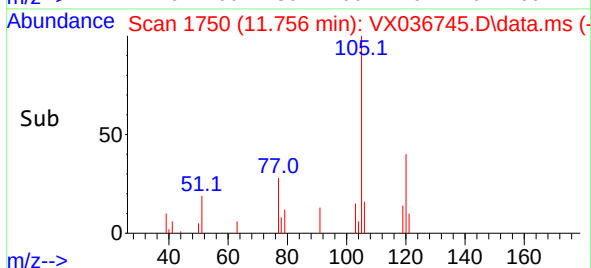
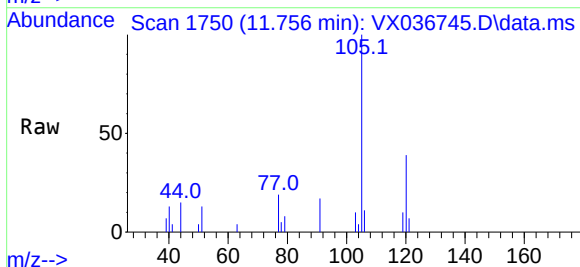


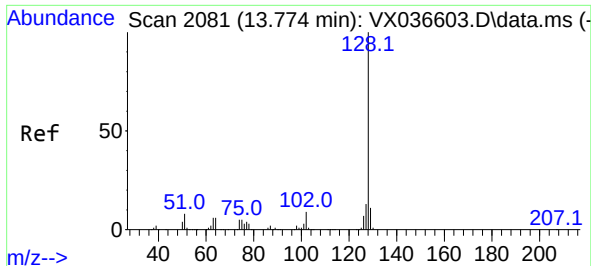
Tgt Ion: 75 Resp: 54233  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.305 ug/l  
RT: 11.756 min Scan# 1750  
Delta R.T. 0.006 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

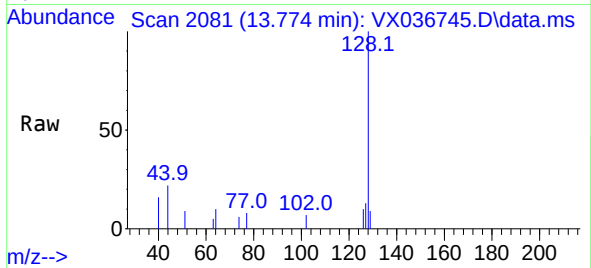
Tgt Ion: 105 Resp: 1951  
Ion Ratio Lower Upper  
105 100  
120 37.6 21.2 63.6





#95  
Naphthalene  
Concen: 0.228 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX036745.D  
Acq: 01 Aug 2023 13:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
1714DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1519  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.9  | 10.3  | 15.5  |
| 129      | 7.4   | 8.8   | 13.2# |

