

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110823\  
 Data File : VN079992.D  
 Acq On : 08 Nov 2023 14:45  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 09 04:08:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Nov 09 04:02:05 2023  
 Response via : Initial Calibration

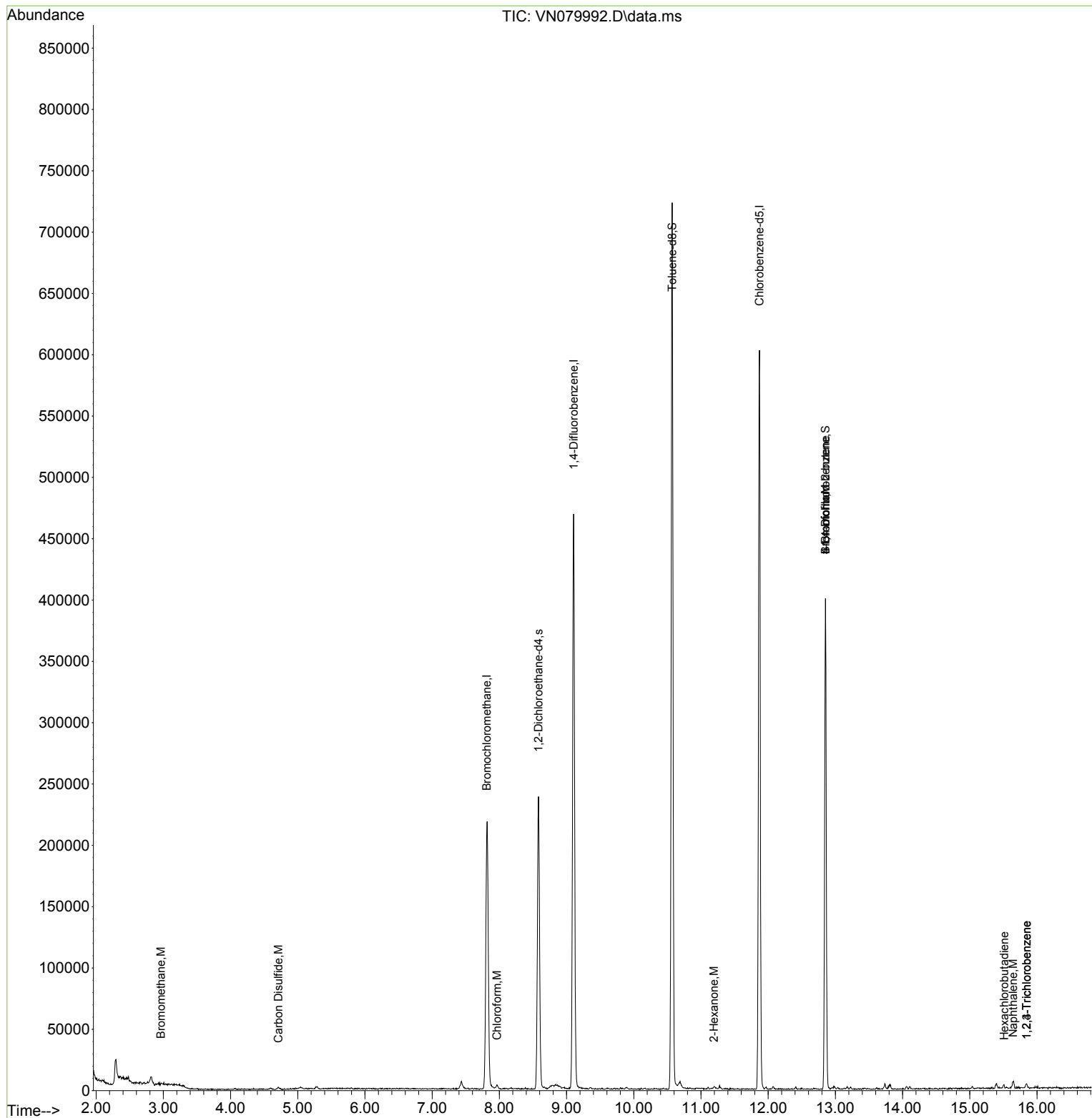
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.812  | 128   | 75435    | 30.000   | ug/l   | -0.01    |
| 28) 1,4-Difluorobenzene     | 9.106  | 114   | 393705   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.870 | 117   | 350211   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.582  | 65    | 196263   | 30.994   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 103.300% |
| 60) 4-Bromofluorobenzene    | 12.853 | 95    | 140491   | 25.086   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 83.633%  |
| 63) Toluene-d8              | 10.571 | 98    | 489400   | 29.493   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 98.300%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 5) Bromomethane             | 2.965  | 94    | 895      | 0.316    | ug/l   | 93       |
| 16) Carbon Disulfide        | 4.712  | 76    | 3307     | 0.249    | ug/l # | 74       |
| 25) Chloroform              | 7.965  | 83    | 2801     | 0.287    | ug/l   | 100      |
| 56) Bromoform               | 12.853 | 173   | 1192     | 0.363    | ug/l # | 1        |
| 59) 2-Hexanone              | 11.194 | 43    | 1134     | 0.254    | ug/l # | 89       |
| 77) t-1,4-Dichloro-2-butene | 12.853 | 75    | 74966    | 38.184   | ug/l # | 7        |
| 89) 1,2,4-Trichlorobenzene  | 15.847 | 180   | 1785     | 0.475    | ug/l # | 89       |
| 90) Hexachlorobutadiene     | 15.511 | 225   | 642      | 0.347    | ug/l   | 76       |
| 91) Naphthalene             | 15.647 | 128   | 6338     | 0.526    | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene  | 15.847 | 180   | 1785     | 0.475    | ug/l   | 89       |
| -----                       |        |       |          |          |        |          |

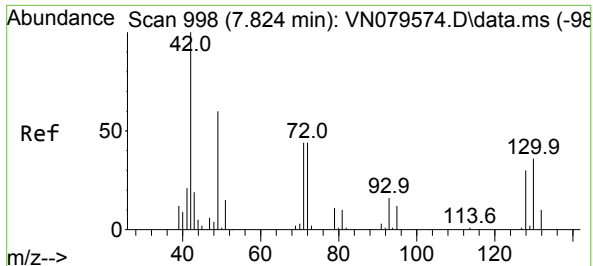
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

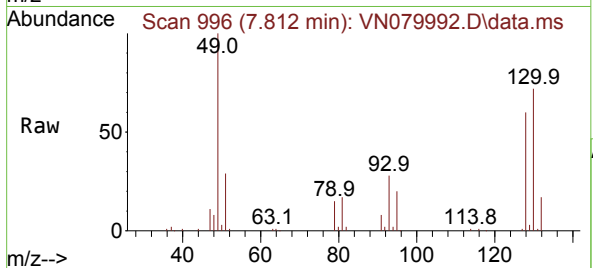
Quant Time: Nov 09 04:08:10 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N110823W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Nov 09 04:02:05 2023  
Response via : Initial Calibration



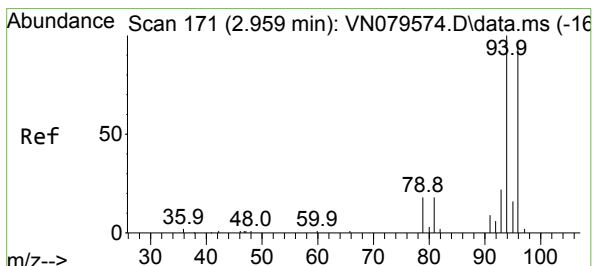
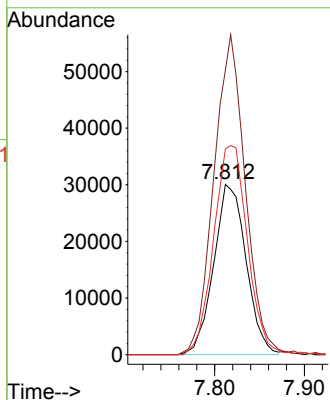
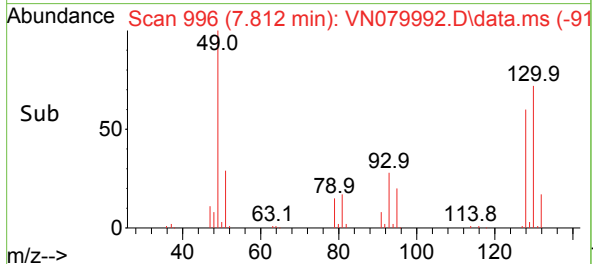


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 998  
Delta R.T. -0.012 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45

Instrument :  
MSVOA\_N  
ClientSampleId :

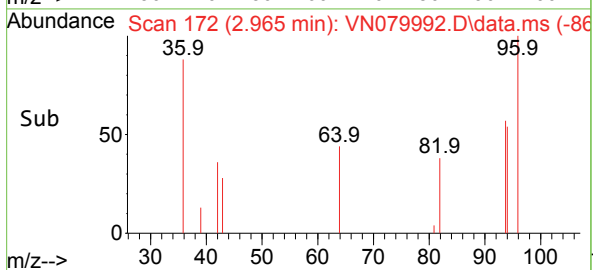
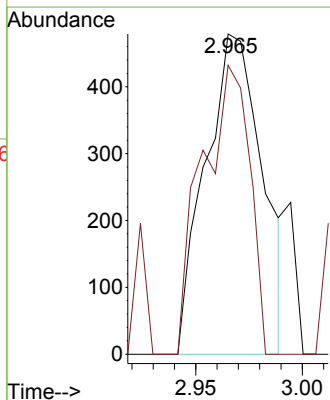
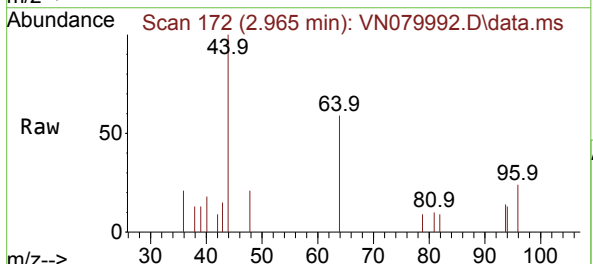


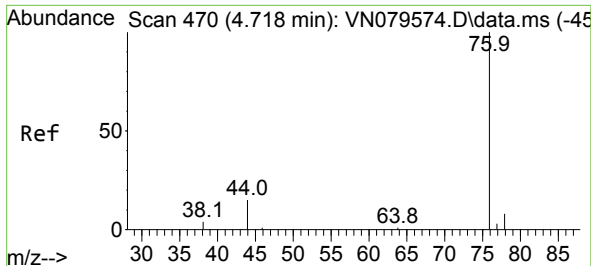
Tgt Ion:128 Resp: 75435  
Ion Ratio Lower Upper  
128 100  
49 181.5 0.0 468.5  
130 128.2 0.0 320.7



#5  
Bromomethane  
Concen: 0.316 ug/l  
RT: 2.965 min Scan# 172  
Delta R.T. 0.006 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45

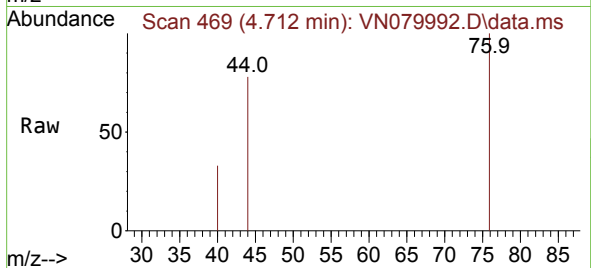
Tgt Ion: 94 Resp: 895  
Ion Ratio Lower Upper  
94 100  
96 90.2 77.8 116.6



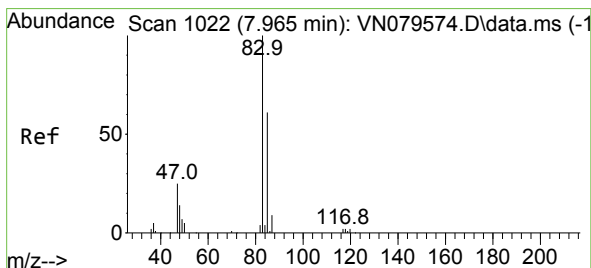
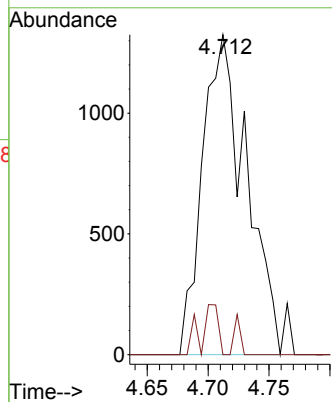
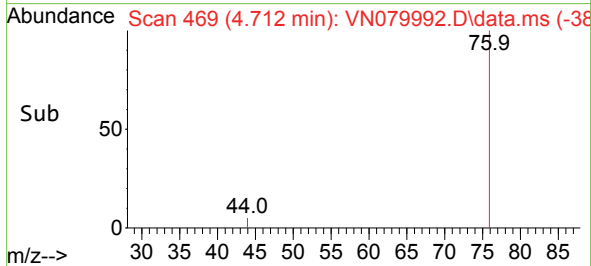


#16  
Carbon Disulfide  
Concen: 0.249 ug/l  
RT: 4.712 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45

Instrument :  
MSVOA\_N  
ClientSampleId :

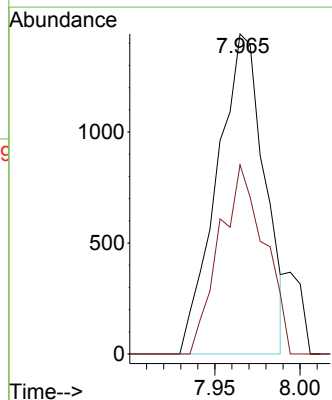
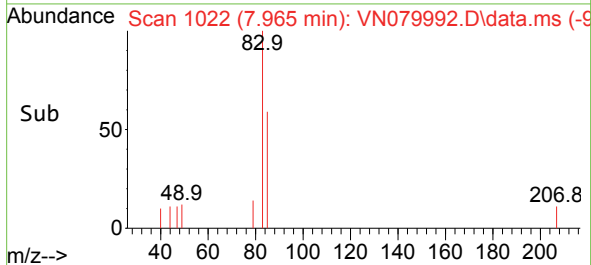
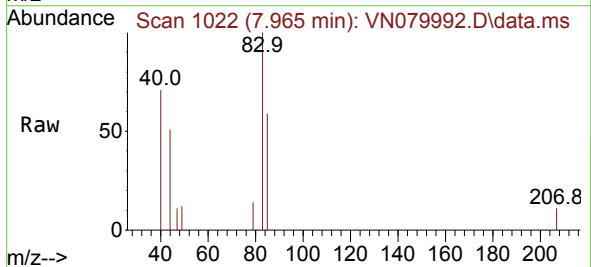


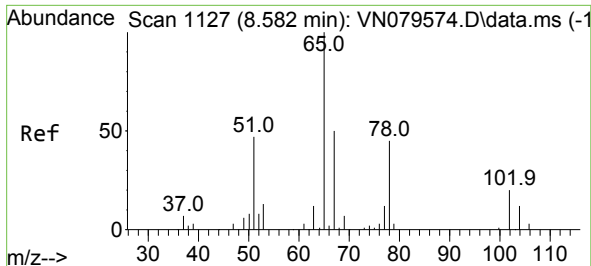
Tgt Ion: 76 Resp: 3307  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.5 11.3#



#25  
Chloroform  
Concen: 0.287 ug/l  
RT: 7.965 min Scan# 1022  
Delta R.T. -0.000 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45

Tgt Ion: 83 Resp: 2801  
Ion Ratio Lower Upper  
83 100  
85 59.1 47.4 71.2





#27

1,2-Dichloroethane-d4

Concen: 30.994 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079992.D

Acq: 08 Nov 2023 14:45

Instrument :

MSVOA\_N

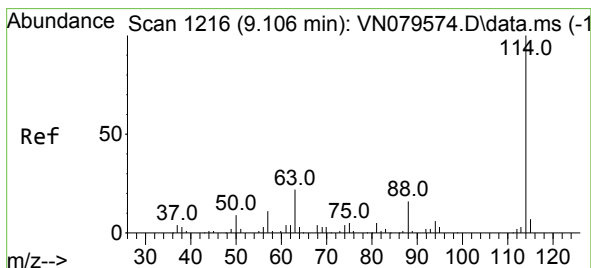
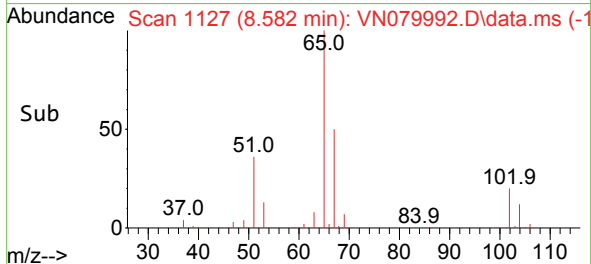
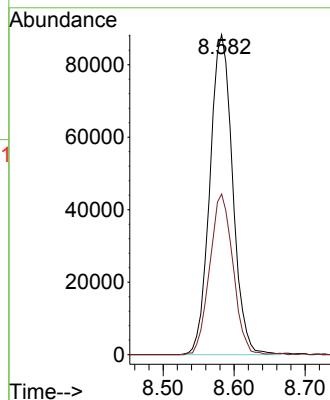
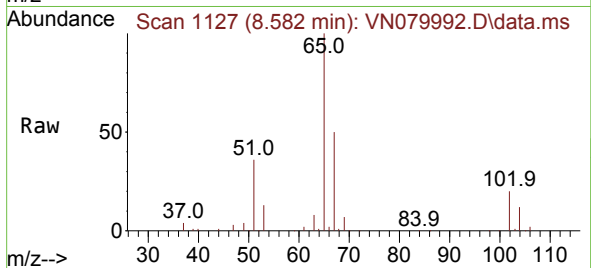
ClientSampleId :

Tgt Ion: 65 Resp: 196263

Ion Ratio Lower Upper

65 100

67 51.2 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN079992.D

Acq: 08 Nov 2023 14:45

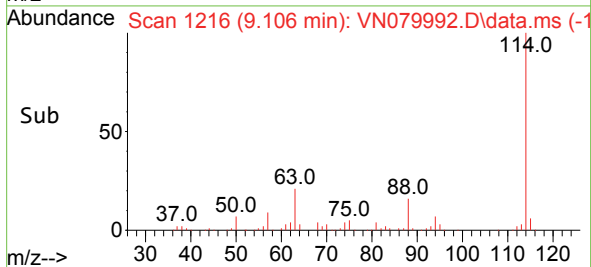
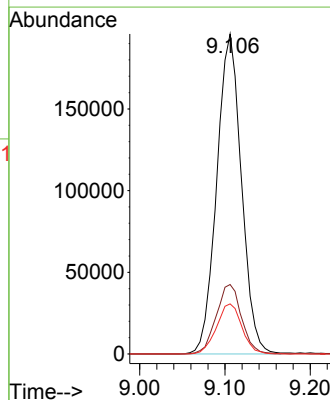
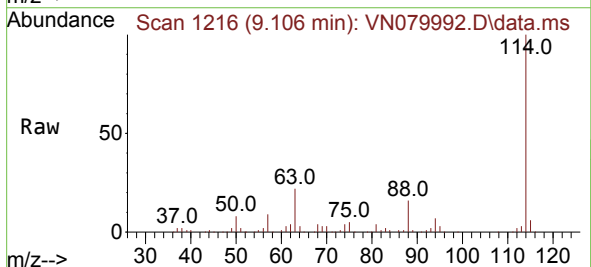
Tgt Ion: 114 Resp: 393705

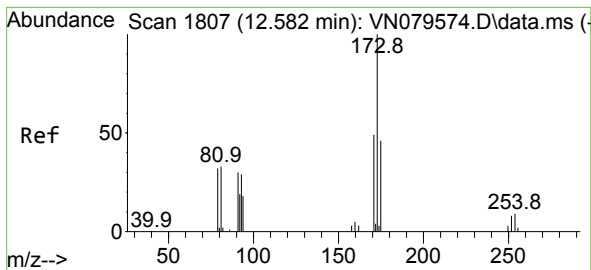
Ion Ratio Lower Upper

114 100

63 22.2 18.1 27.1

88 16.0 12.2 18.2





#56

Bromoform

Concen: 0.363 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

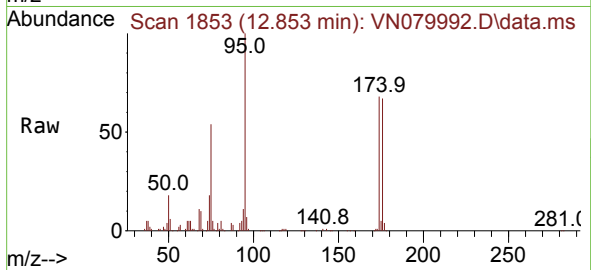
Lab File: VN079992.D

Acq: 08 Nov 2023 14:45

Instrument :

MSVOA\_N

ClientSampleId :



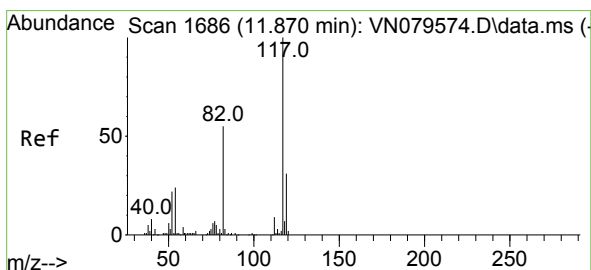
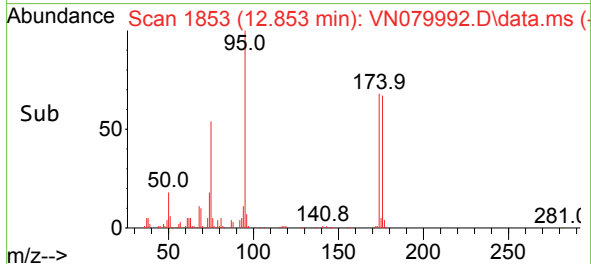
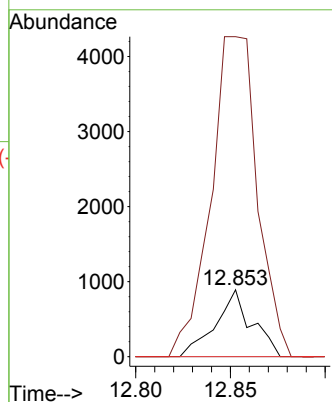
Tgt Ion:173 Resp: 1192

Ion Ratio Lower Upper

173 100

175 611.9 37.9 56.9#

254 0.0 7.3 10.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN079992.D

Acq: 08 Nov 2023 14:45

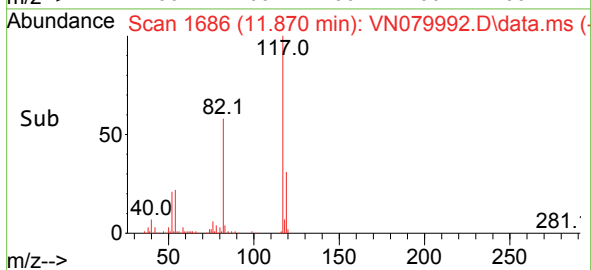
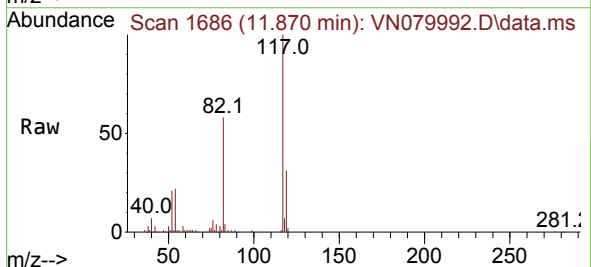
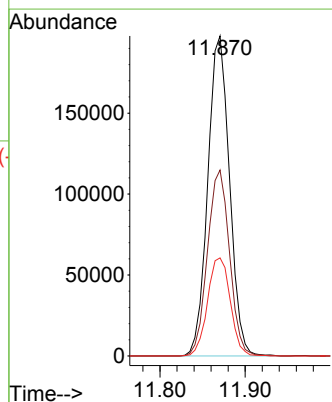
Tgt Ion:117 Resp: 350211

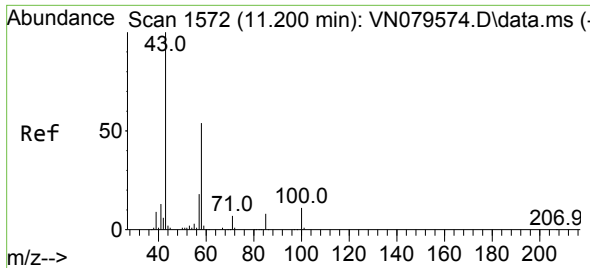
Ion Ratio Lower Upper

117 100

82 59.1 46.2 69.2

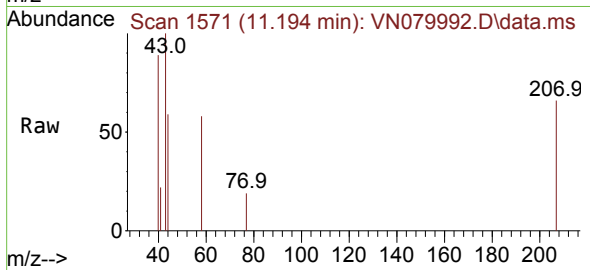
119 32.1 25.2 37.8



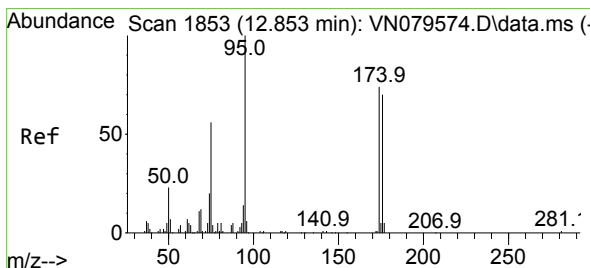
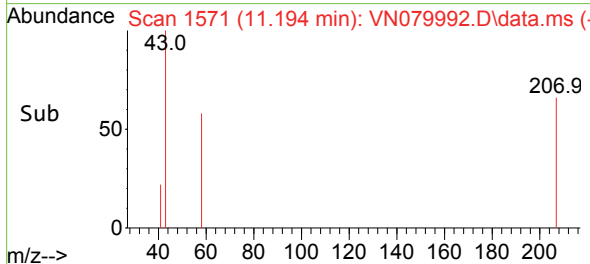
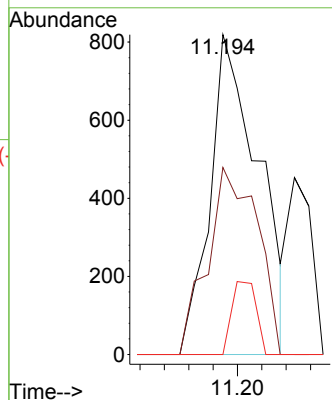


#59  
2-Hexanone  
Concen: 0.254 ug/l  
RT: 11.194 min Scan# 1134  
Delta R.T. -0.006 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45

Instrument :  
MSVOA\_N  
ClientSampleId :

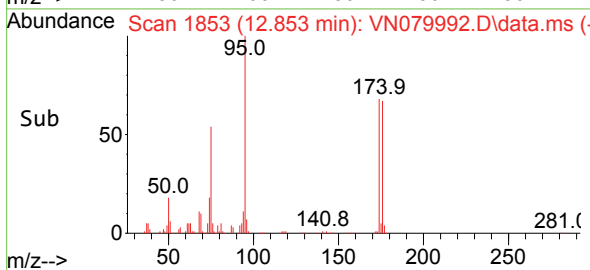
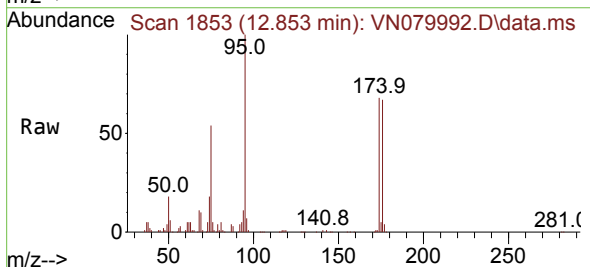
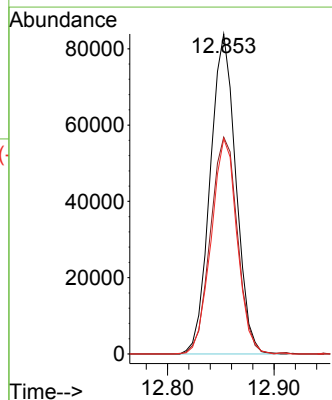


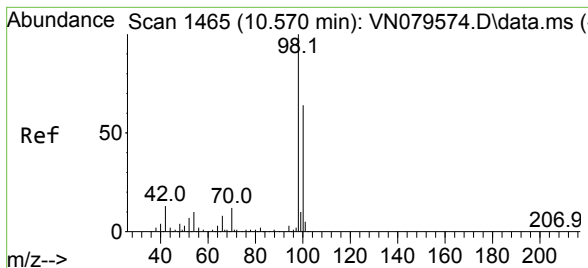
Tgt Ion: 43 Resp: 1134  
Ion Ratio Lower Upper  
43 100  
58 60.2 42.3 63.5  
57 11.5 13.9 20.9#



#60  
4-Bromofluorobenzene  
Concen: 25.086 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45

Tgt Ion: 95 Resp: 140491  
Ion Ratio Lower Upper  
95 100  
174 71.3 60.5 90.7  
176 67.7 57.2 85.8





#63

Toluene-d8

Concen: 29.493 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.001 min

Lab File: VN079992.D

Acq: 08 Nov 2023 14:45

Instrument :

MSVOA\_N

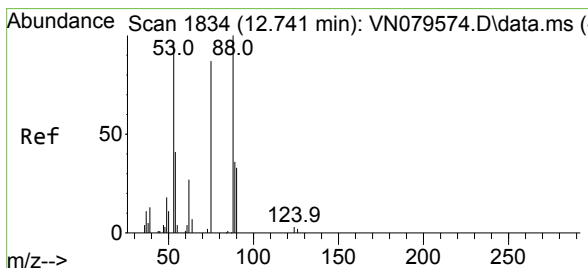
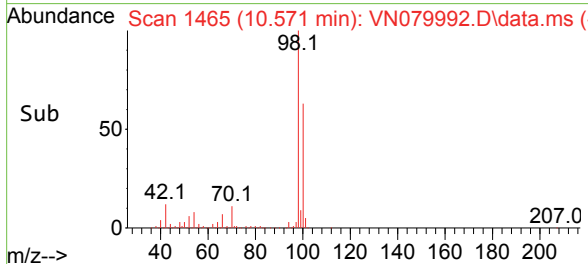
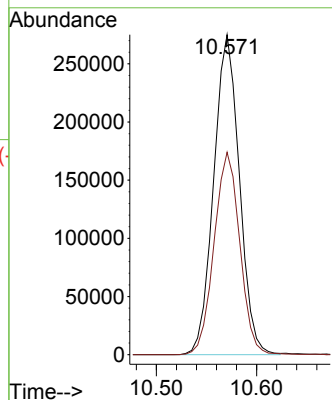
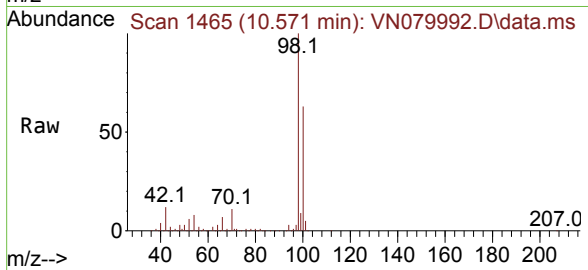
ClientSampleId :

Tgt Ion: 98 Resp: 489400

Ion Ratio Lower Upper

98 100

100 63.3 51.6 77.4



#77

t-1,4-Dichloro-2-butene

Concen: 38.184 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079992.D

Acq: 08 Nov 2023 14:45

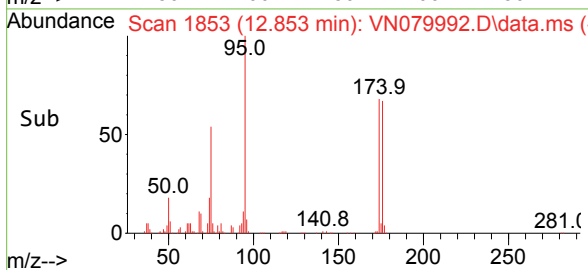
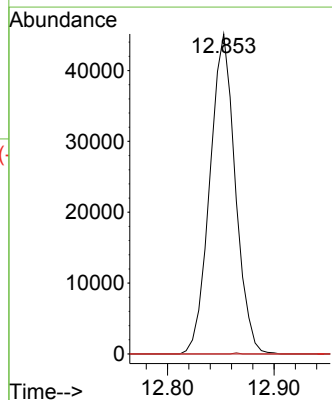
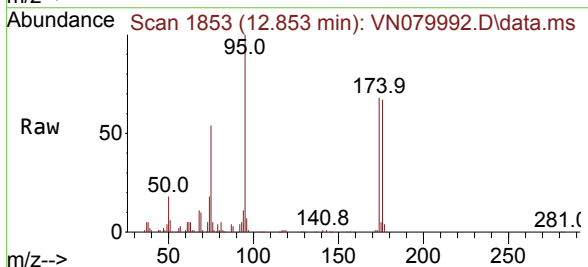
Tgt Ion: 75 Resp: 74966

Ion Ratio Lower Upper

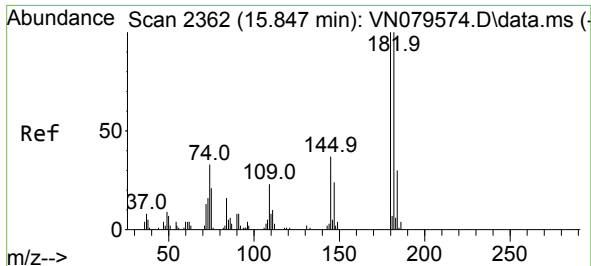
75 100

53 0.0 53.0 159.1#

89 0.0 22.6 67.7#

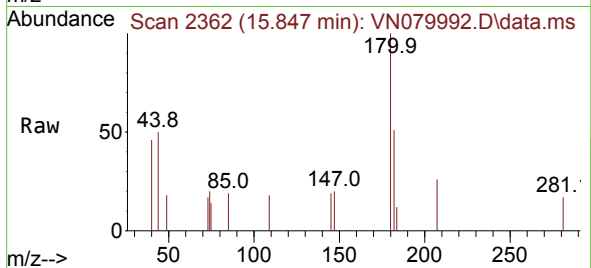




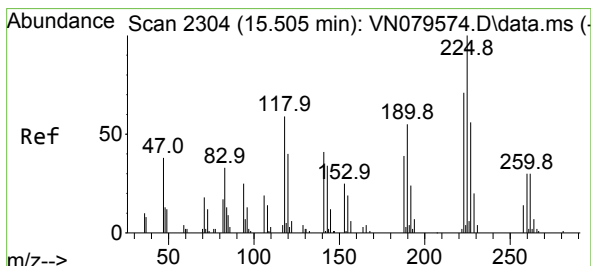
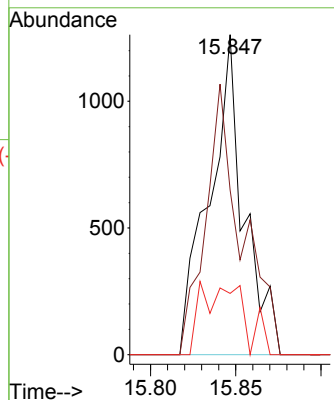
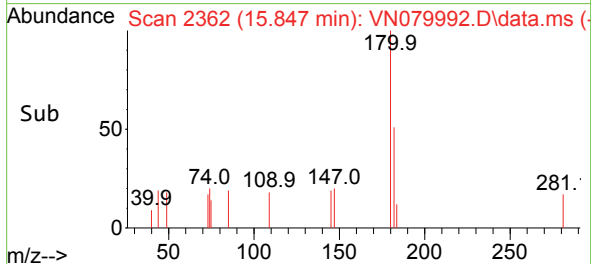


#89  
1,2,4-Trichlorobenzene  
Concen: 0.475 ug/l  
RT: 15.847 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45

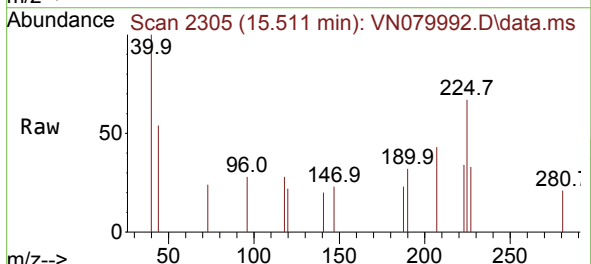
Instrument :  
MSVOA\_N  
ClientSampleId :



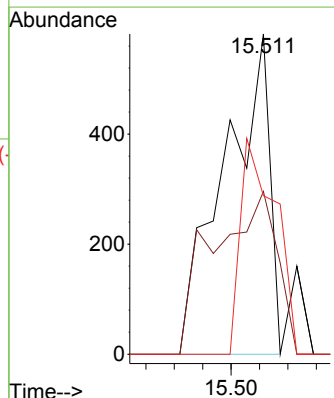
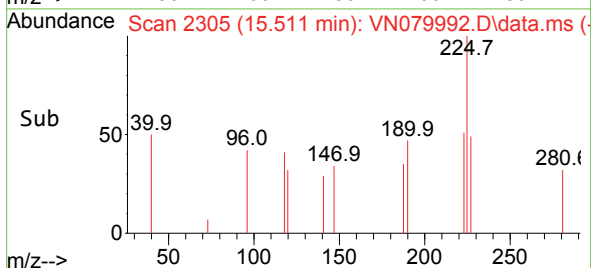
Tgt Ion:180 Resp: 1785  
Ion Ratio Lower Upper  
180 100  
182 88.1 74.2 111.4  
145 15.4 25.4 38.2#

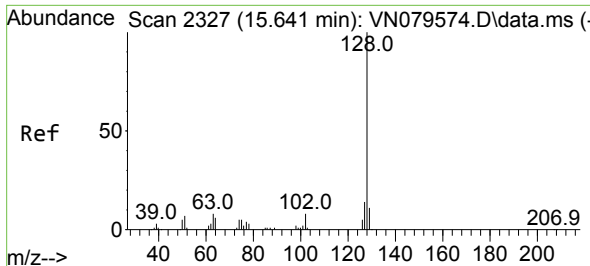


#90  
Hexachlorobutadiene  
Concen: 0.347 ug/l  
RT: 15.511 min Scan# 2305  
Delta R.T. 0.006 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45



Tgt Ion:225 Resp: 642  
Ion Ratio Lower Upper  
225 100  
223 37.5 0.0 126.0  
227 52.3 0.0 127.0

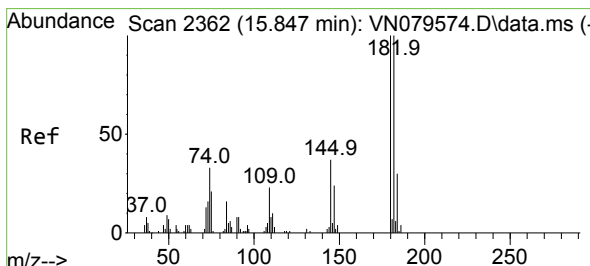
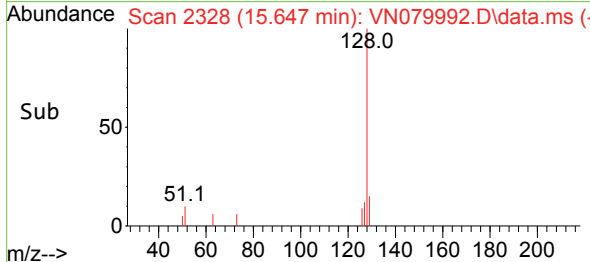
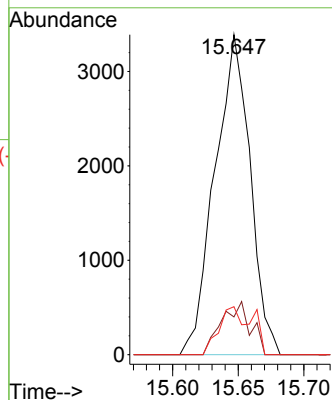
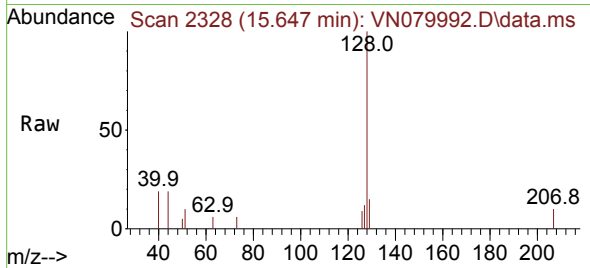




#91  
Naphthalene  
Concen: 0.526 ug/l  
RT: 15.647 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45

Instrument :  
MSVOA\_N  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 6338  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.6  | 10.9  | 16.3  |
| 129      | 9.4   | 8.6   | 12.8  |



#92  
1,2,3-Trichlorobenzene  
Concen: 0.475 ug/l  
RT: 15.847 min Scan# 2362  
Delta R.T. -0.000 min  
Lab File: VN079992.D  
Acq: 08 Nov 2023 14:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1785  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 88.1  | 0.0   | 185.6 |
| 145      | 15.4  | 0.0   | 63.6  |

