

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090223\
 Data File : VN079139.D
 Acq On : 02 Sep 2023 13:35
 Operator : JC\MD
 Sample : PB155301ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB155301ZHE#01

Quant Time: Sep 04 01:02:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

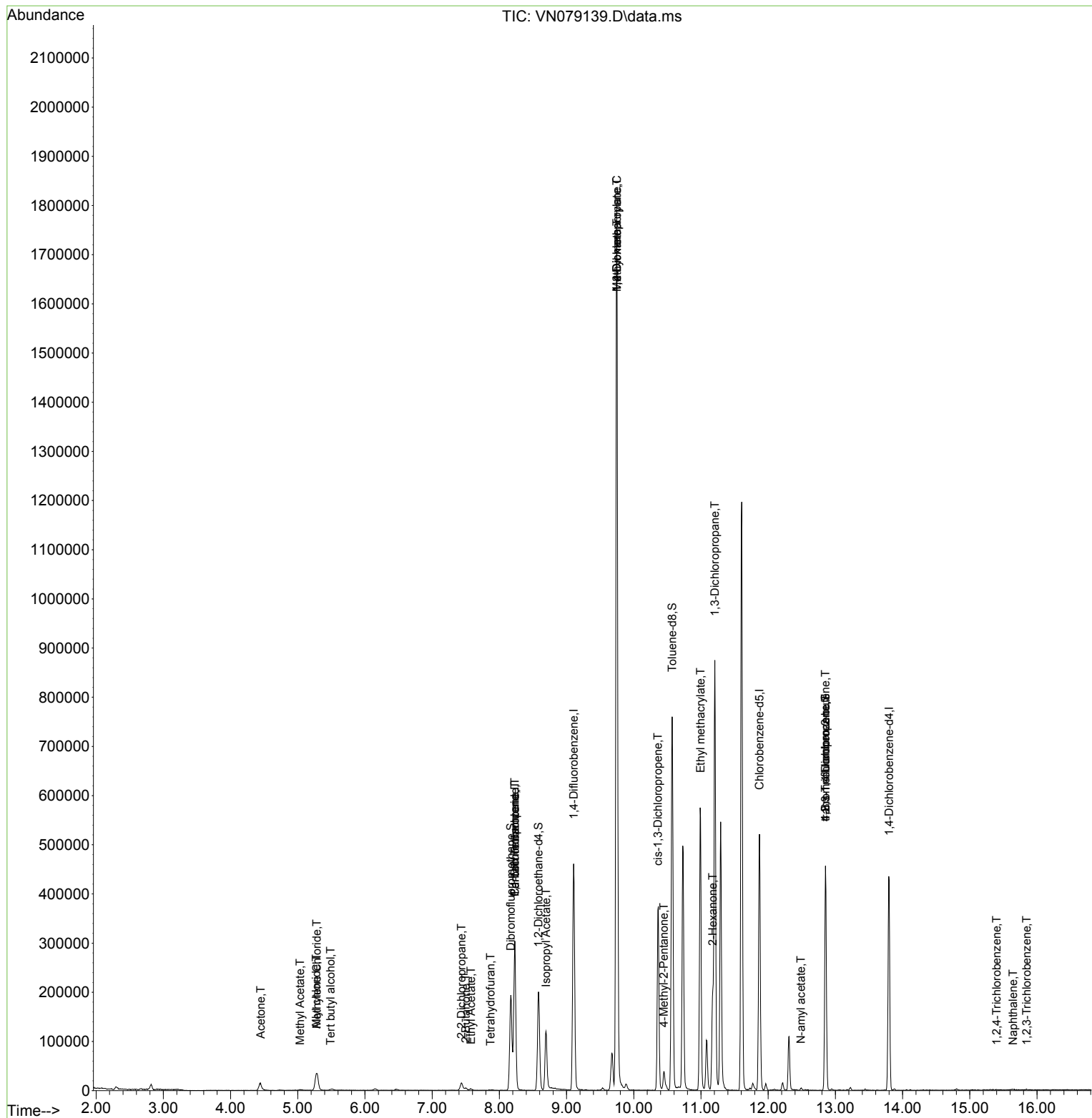
Internal Standards						
1) Pentafluorobenzene	8.230	168	213592	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	407579	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	306753	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	120833	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	161153	48.486	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.980%		
35) Dibromofluoromethane	8.171	113	139758	50.939	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.880%		
50) Toluene-d8	10.571	98	534825	52.499	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.000%		
62) 4-Bromofluorobenzene	12.853	95	163641	49.144	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.280%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.489	59	1311	2.351	ug/l #	72
14) Allyl chloride	5.277	41	1072	0.235	ug/l #	19
16) Acetone	4.447	43	27430	20.001	ug/l	99
18) Methyl Acetate	5.036	43	1955	0.337	ug/l #	81
20) Methylene Chloride	5.283	84	29871	10.221	ug/l	97
25) 2-Butanone	7.500	43	8125	3.695	ug/l #	83
26) 2,2-Dichloropropane	7.436	77	1160	0.272	ug/l #	53
29) Tetrahydrofuran	7.871	42	334	0.230	ug/l #	51
31) Cyclohexane	8.224	56	4669	Below Cal	#	33
36) 1,1-Dichloropropene	8.230	75	17792	4.311	ug/l #	47
37) Ethyl Acetate	7.577	43	4957	1.073	ug/l #	75
38) Carbon Tetrachloride	8.230	117	22356	5.406	ug/l #	16
43) Isopropyl Acetate	8.694	43	138261	16.940	ug/l #	82
45) 1,2-Dichloropropane	9.747	63	2738	0.843	ug/l #	45
48) Methyl methacrylate	9.747	41	156942	42.435	ug/l #	26
49) 1,4-Dioxane	9.747	88	164	2.603	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	32099	6.631	ug/l #	79
54) cis-1,3-Dichloropropene	10.359	75	71489	13.915	ug/l #	65
56) Ethyl methacrylate	10.994	69	2679	0.575	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9889	1.841	ug/l #	42
59) 2-Hexanone	11.176	43	172702	49.258	ug/l #	19
74) N-amyl acetate	12.488	43	1986	0.391	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	81945	28.145	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	81945	71.899	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.647	75	56	Below Cal	#	4
93) 1,2,4-Trichlorobenzene	15.400	180	312	0.212	ug/l #	80
95) Naphthalene	15.647	128	1812	2.883	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.847	180	540	0.336	ug/l #	80

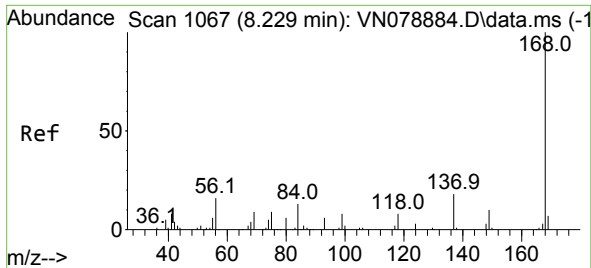
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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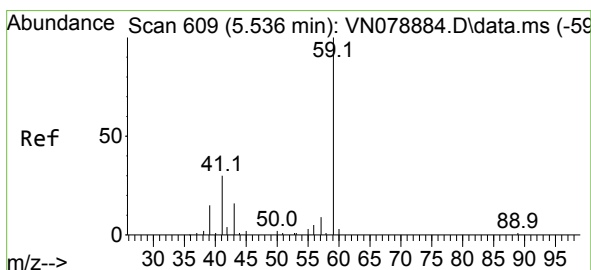
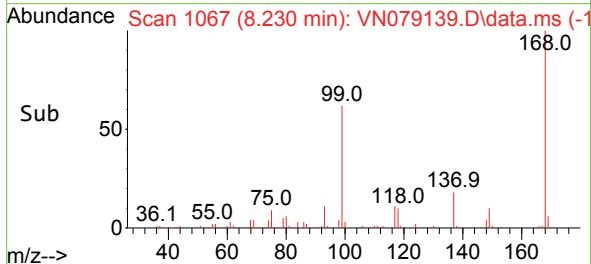
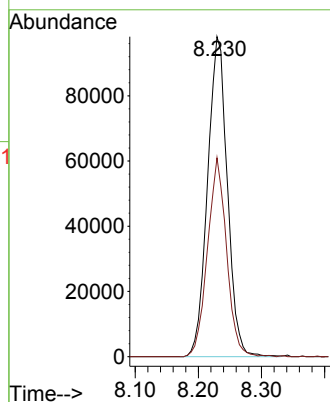
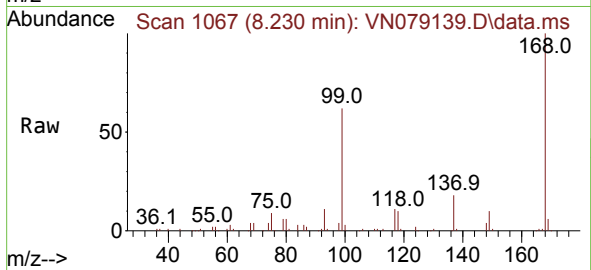




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

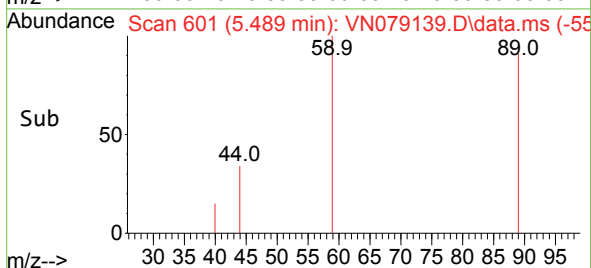
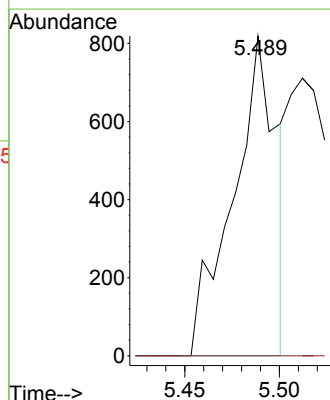
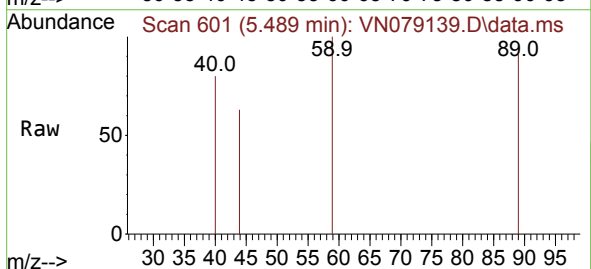
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#01

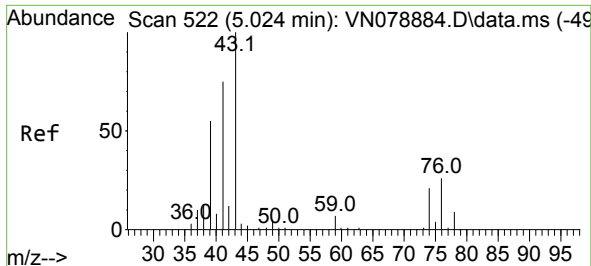
Tgt Ion:168 Resp: 213592
Ion Ratio Lower Upper
168 100
99 62.2 53.0 79.6



#11
Tert butyl alcohol
Concen: 2.351 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.053 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

Tgt Ion: 59 Resp: 1311
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

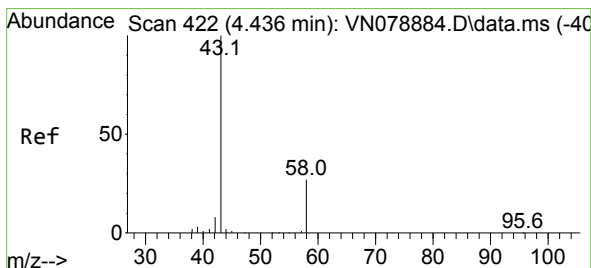
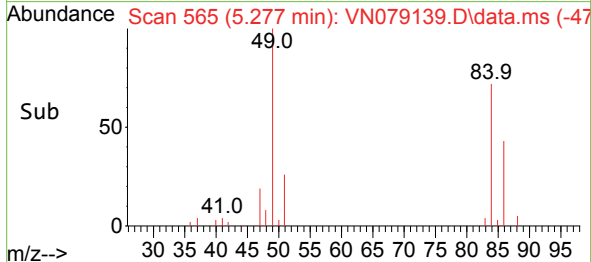
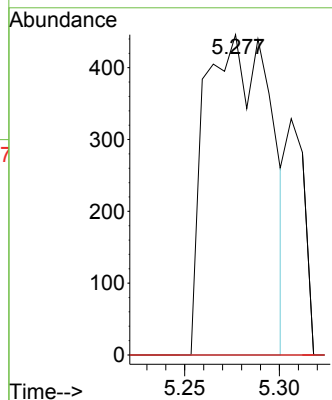
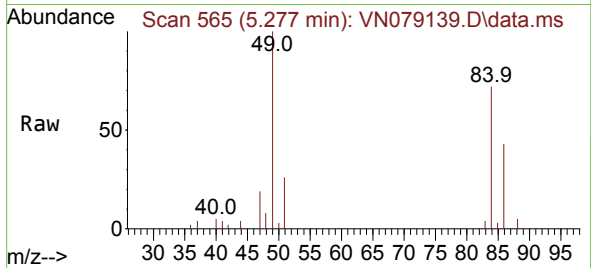




#14
 Allyl chloride
 Concen: 0.235 ug/l
 RT: 5.277 min Scan# 51
 Delta R.T. 0.247 min
 Lab File: VN079139.D
 Acq: 02 Sep 2023 13:35

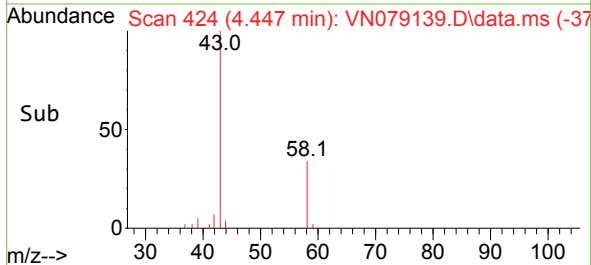
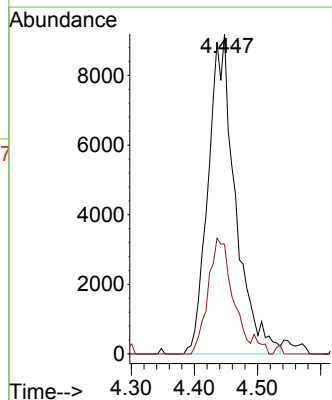
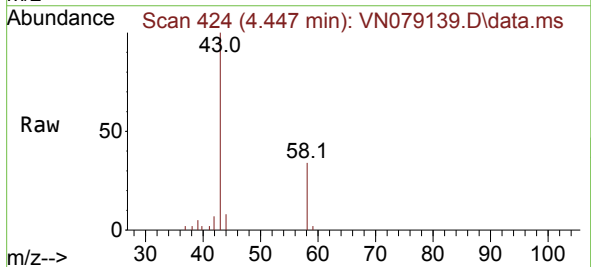
Instrument :
 MSVOA_N
 ClientSampleId :
 PB155301ZHE#01

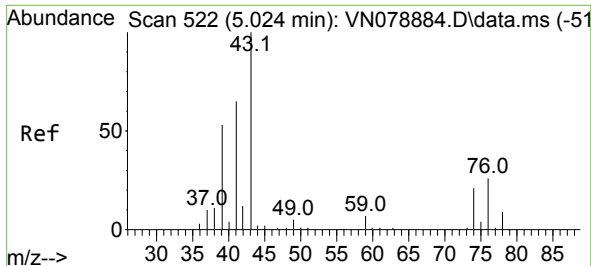
Tgt Ion: 41 Resp: 1072
 Ion Ratio Lower Upper
 41 100
 39 0.0 58.8 88.2#
 76 0.0 39.1 58.7#



#16
 Acetone
 Concen: 20.001 ug/l
 RT: 4.447 min Scan# 424
 Delta R.T. 0.005 min
 Lab File: VN079139.D
 Acq: 02 Sep 2023 13:35

Tgt Ion: 43 Resp: 27430
 Ion Ratio Lower Upper
 43 100
 58 34.3 28.0 42.0

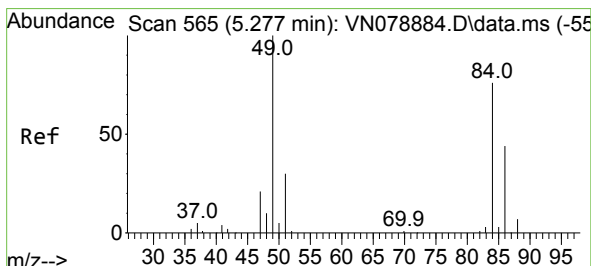
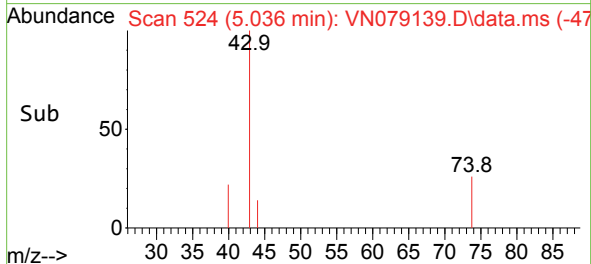
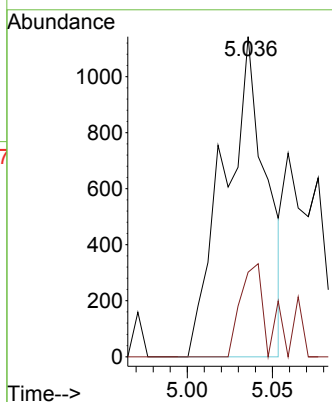
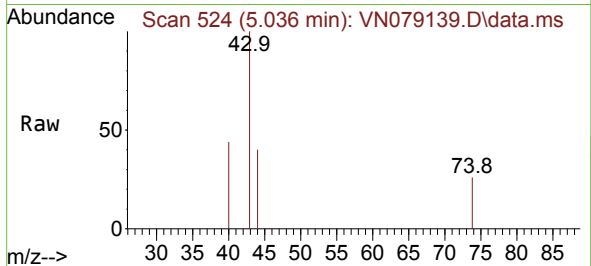




#18
Methyl Acetate
Concen: 0.337 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

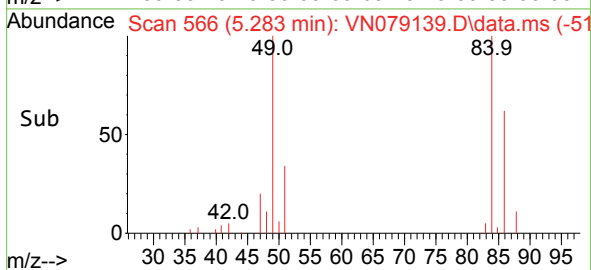
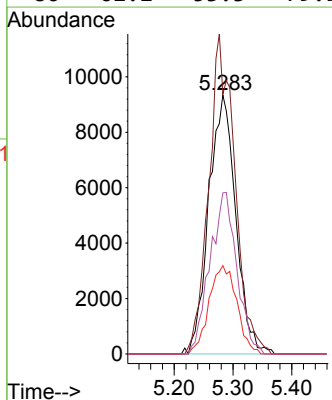
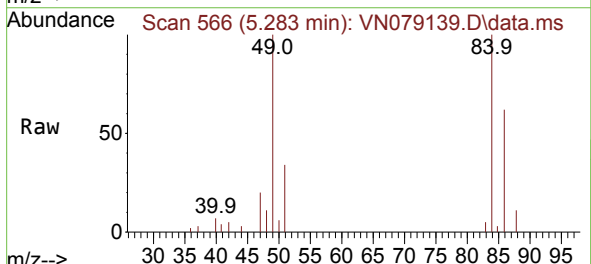
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#01

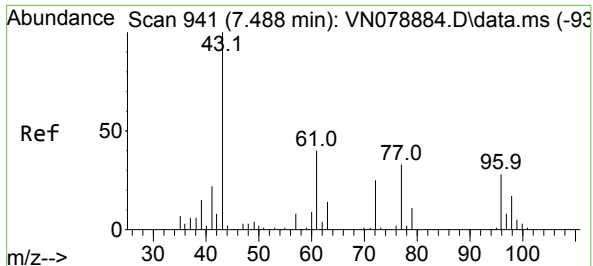
Tgt Ion: 43 Resp: 1955
Ion Ratio Lower Upper
43 100
74 22.1 26.2 39.4#



#20
Methylene Chloride
Concen: 10.221 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

Tgt Ion: 84 Resp: 29871
Ion Ratio Lower Upper
84 100
49 100.3 79.7 119.5
51 34.1 25.2 37.8
86 62.2 53.3 79.9





#25

2-Butanone

Concen: 3.695 ug/l

RT: 7.500 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN079139.D

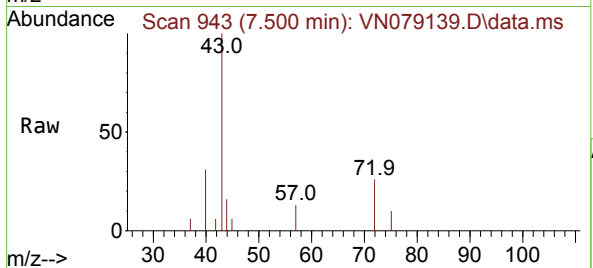
Acq: 02 Sep 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#01

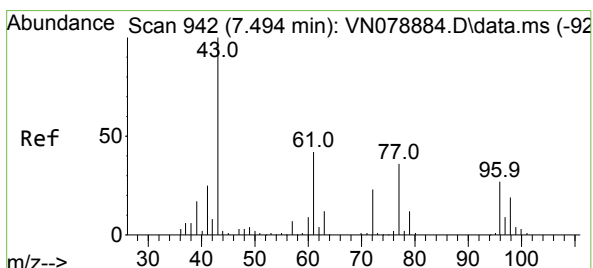
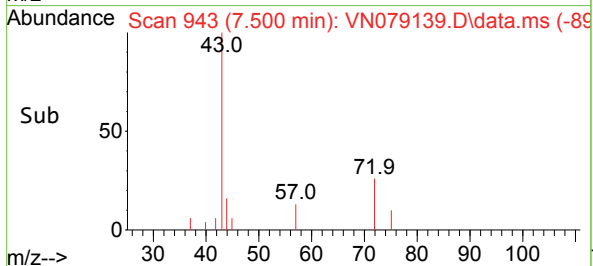
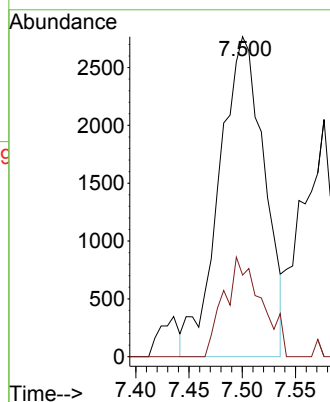


Tgt Ion: 43 Resp: 8125

Ion Ratio Lower Upper

43 100

72 27.5 30.2 45.2#



#26

2,2-Dichloropropane

Concen: 0.272 ug/l

RT: 7.436 min Scan# 932

Delta R.T. -0.064 min

Lab File: VN079139.D

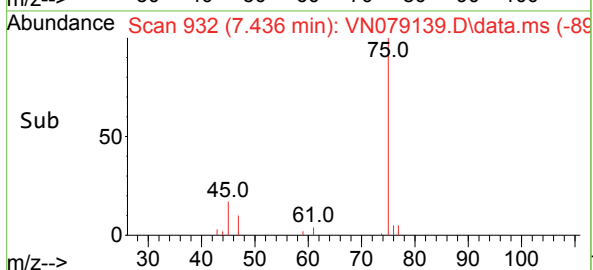
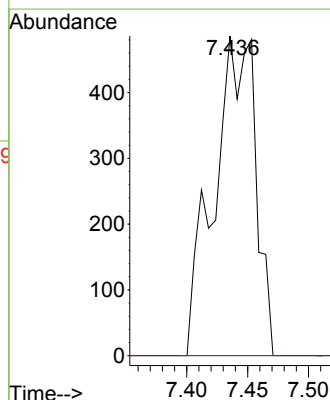
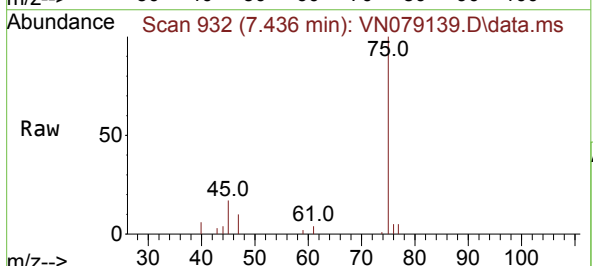
Acq: 02 Sep 2023 13:35

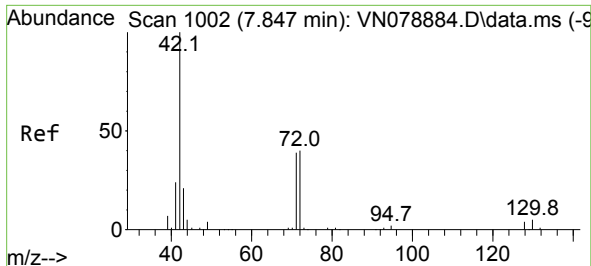
Tgt Ion: 77 Resp: 1160

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.6#

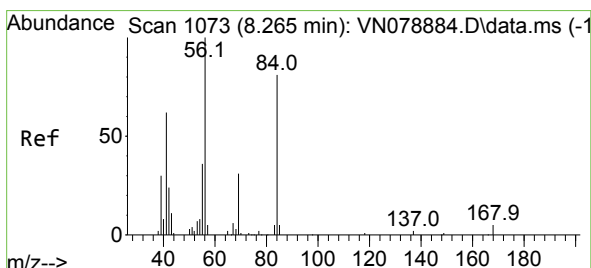
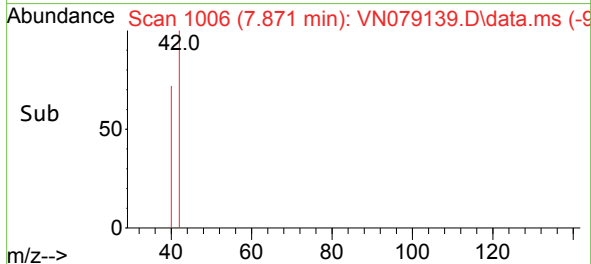
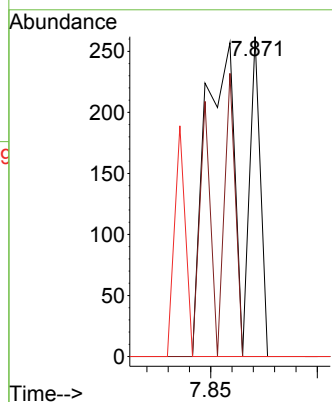
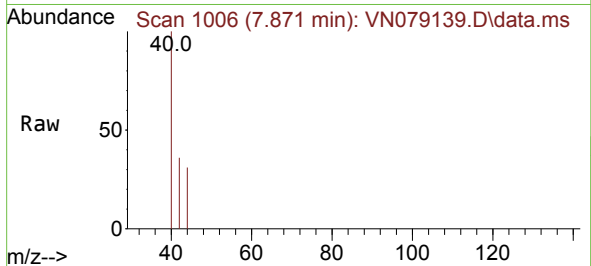




#29
Tetrahydrofuran
Concen: 0.230 ug/l
RT: 7.871 min Scan# 1006
Delta R.T. 0.024 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

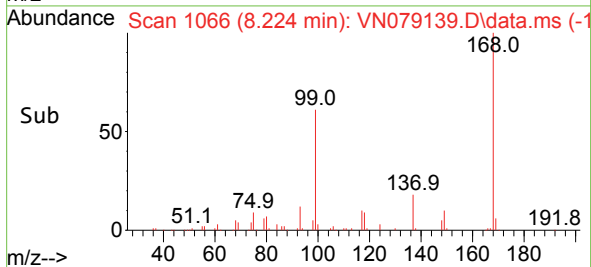
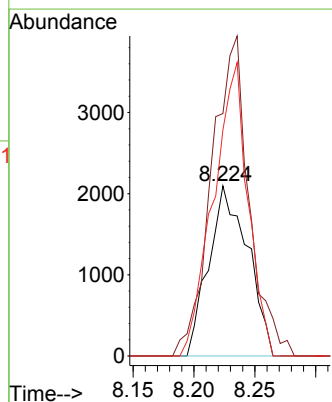
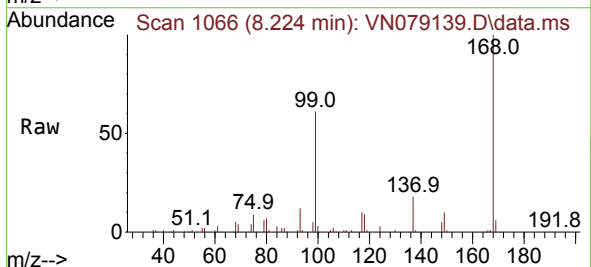
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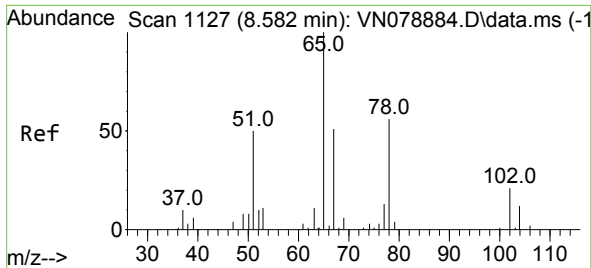
Tgt Ion: 42 Resp: 334
Ion Ratio Lower Upper
42 100
72 46.7 49.8 74.6#
71 0.0 47.4 71.2#



#31
Cyclohexane
Concen: Below Cal
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

Tgt Ion: 56 Resp: 4669
Ion Ratio Lower Upper
56 100
69 135.1 26.8 40.2#
84 132.9 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 48.486 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

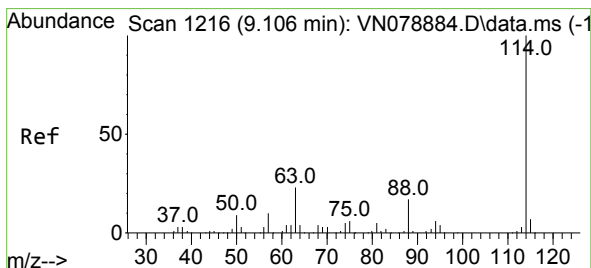
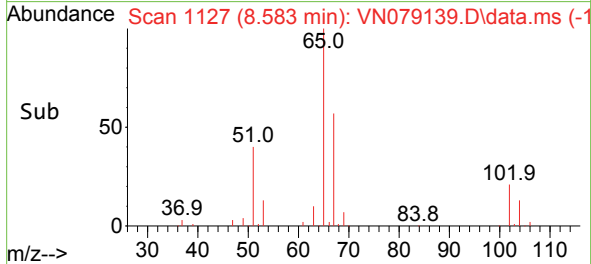
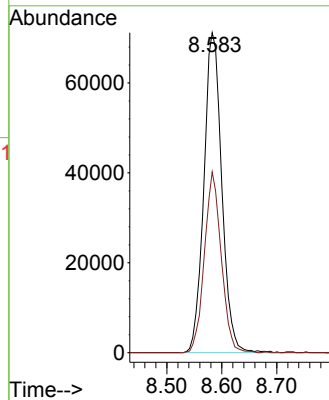
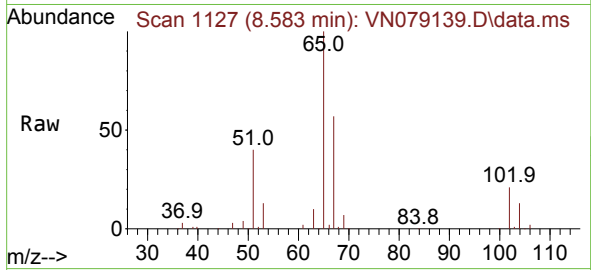
PB155301ZHE#01

Tgt Ion: 65 Resp: 161153

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

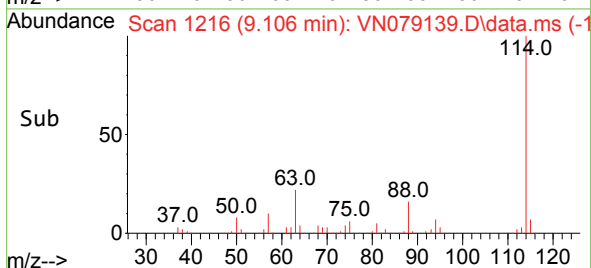
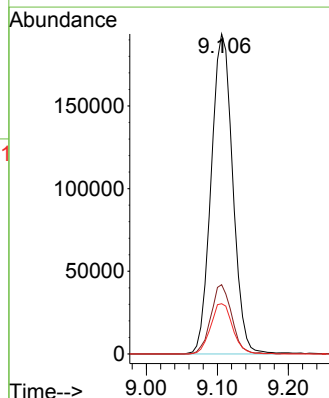
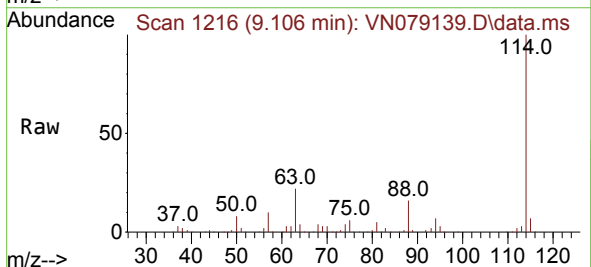
Tgt Ion: 114 Resp: 407579

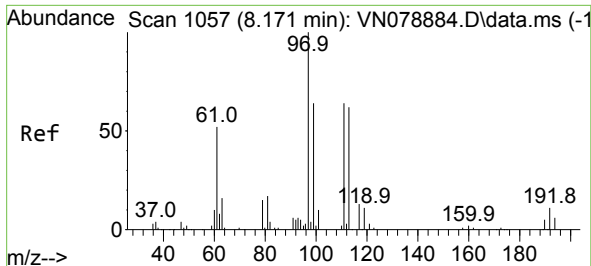
Ion Ratio Lower Upper

114 100

63 21.7 0.0 36.4

88 15.7 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.939 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#01

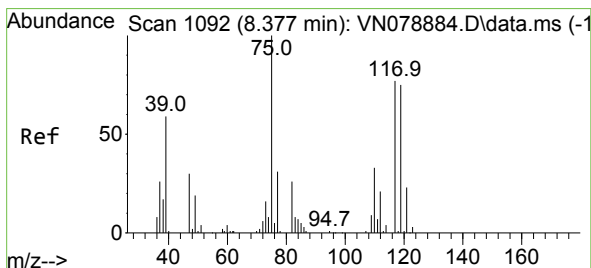
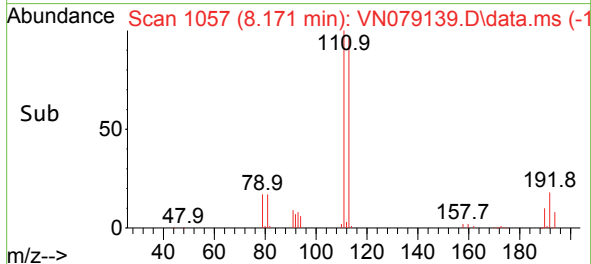
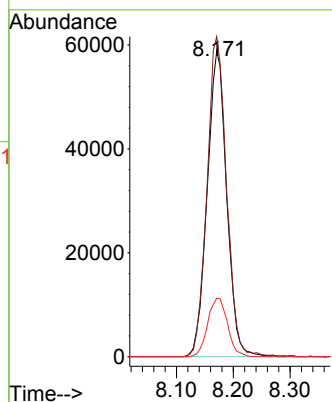
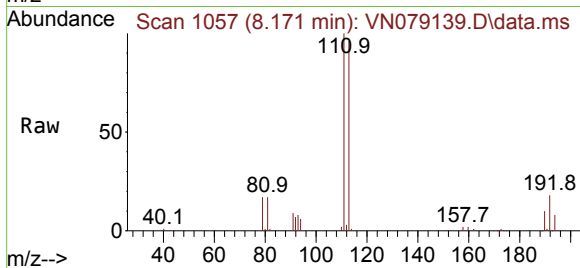
Tgt Ion:113 Resp: 139758

Ion Ratio Lower Upper

113 100

111 105.1 82.6 123.8

192 19.4 12.7 19.1#



#36

1,1-Dichloropropene

Concen: 4.311 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

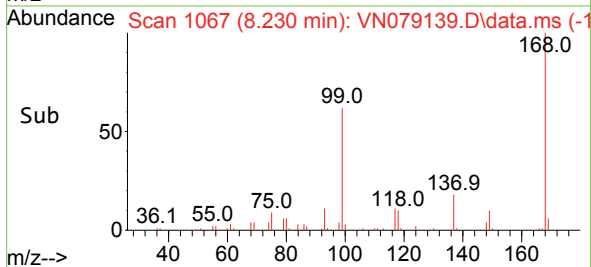
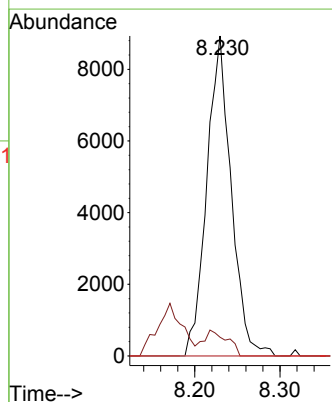
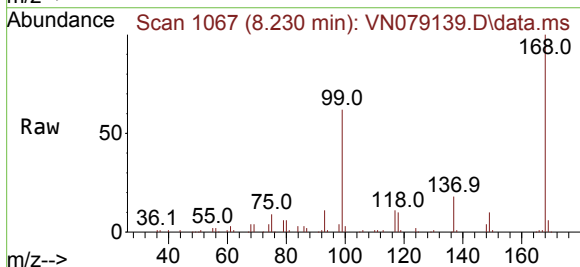
Tgt Ion: 75 Resp: 17792

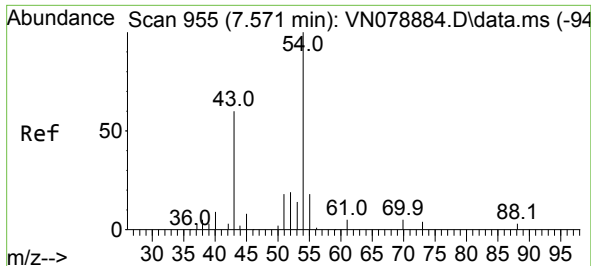
Ion Ratio Lower Upper

75 100

110 7.9 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.073 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#01

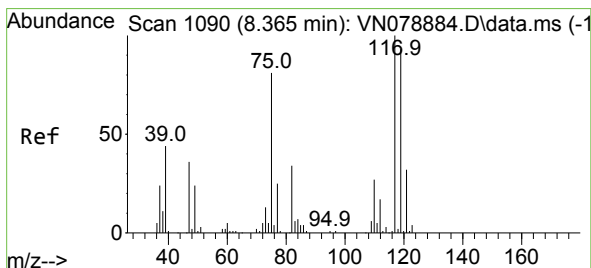
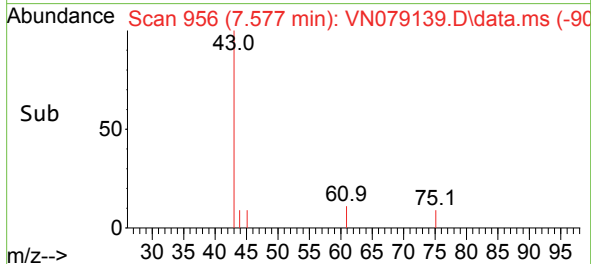
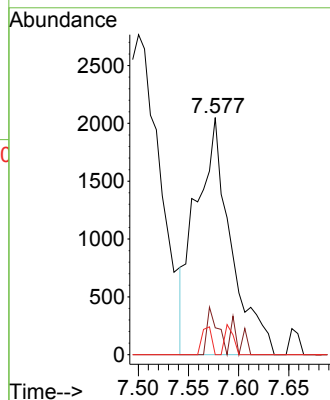
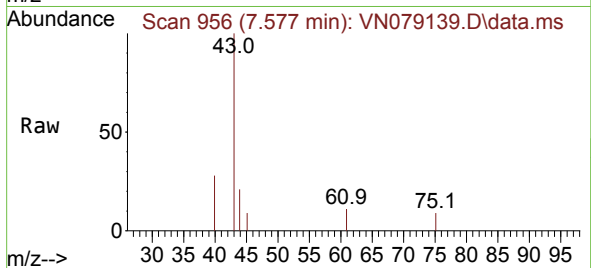
Tgt Ion: 43 Resp: 4957

Ion Ratio Lower Upper

43 100

61 6.1 13.2 19.8#

70 3.3 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 5.406 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

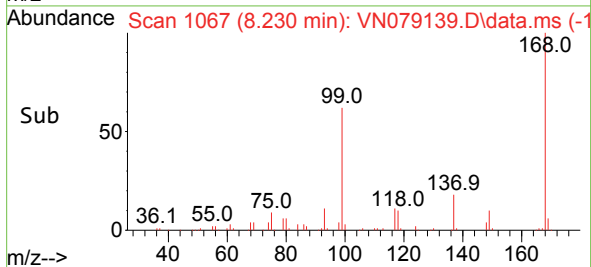
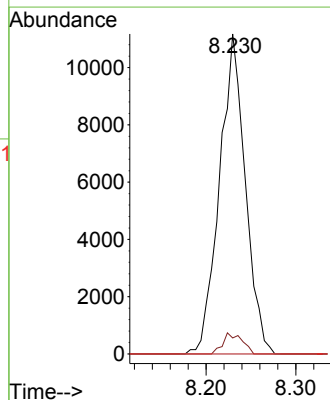
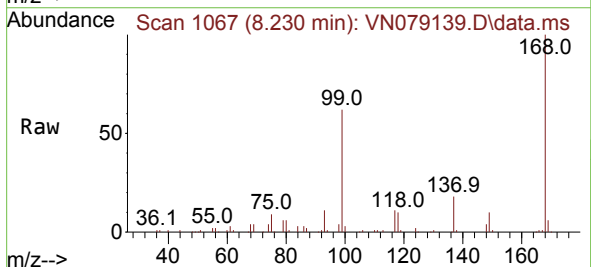
Tgt Ion: 117 Resp: 22356

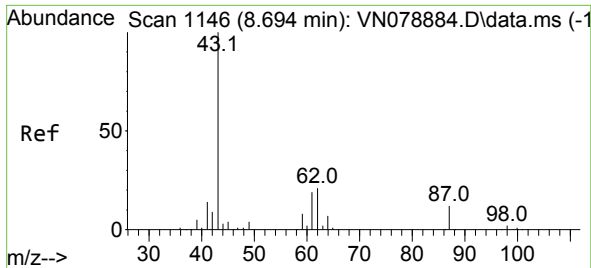
Ion Ratio Lower Upper

117 100

119 5.0 77.3 115.9#

121 0.0 23.3 34.9#

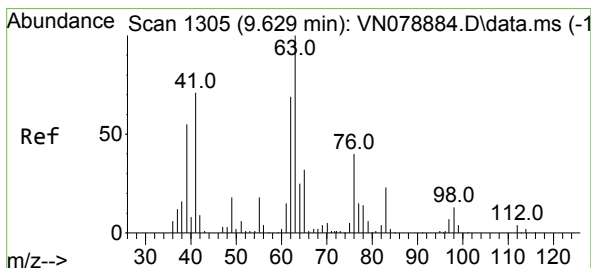
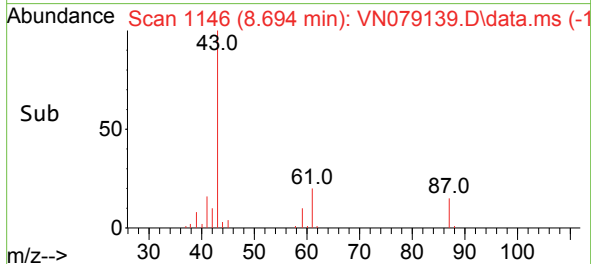
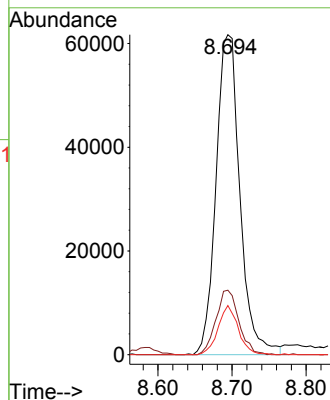
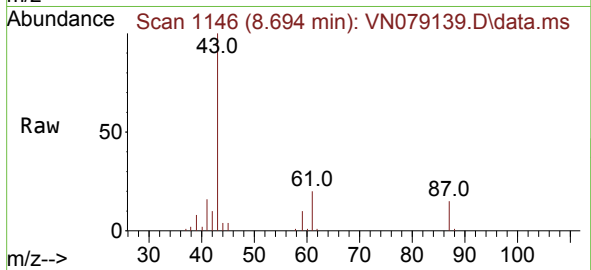




#43
Isopropyl Acetate
Concen: 16.940 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

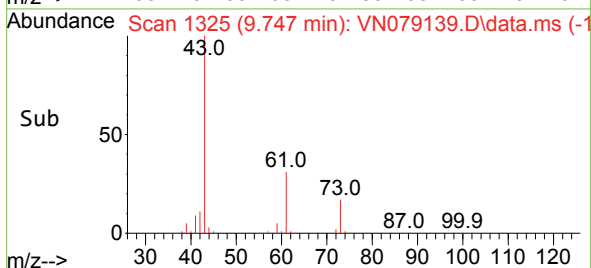
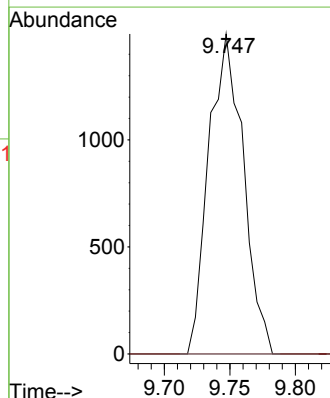
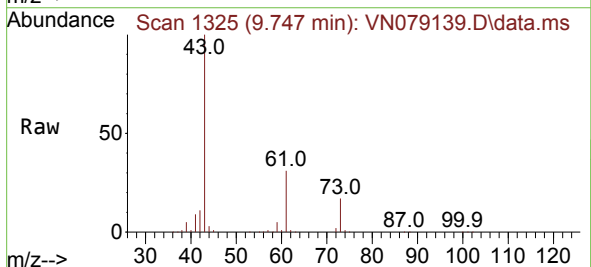
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#01

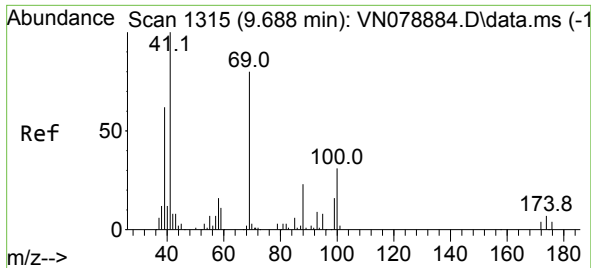
Tgt Ion: 43 Resp: 138261
Ion Ratio Lower Upper
43 100
61 19.3 24.7 37.1#
87 13.0 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.843 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

Tgt Ion: 63 Resp: 2738
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

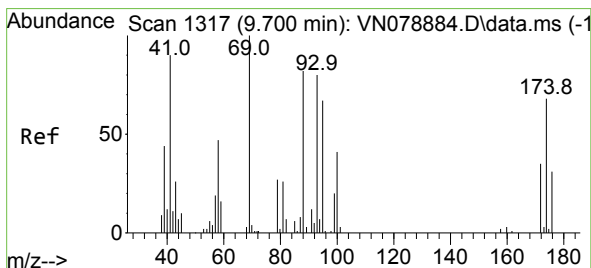
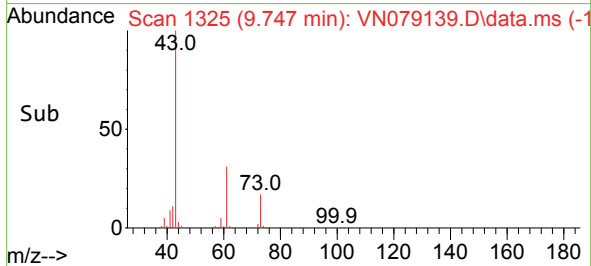
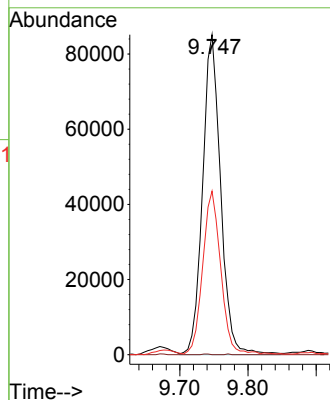
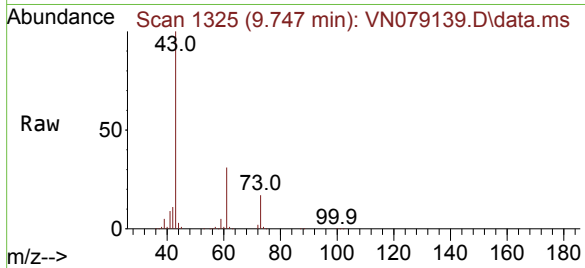




#48
Methyl methacrylate
Concen: 42.435 ug/l
RT: 9.747 min Scan# 1315
Delta R.T. 0.059 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

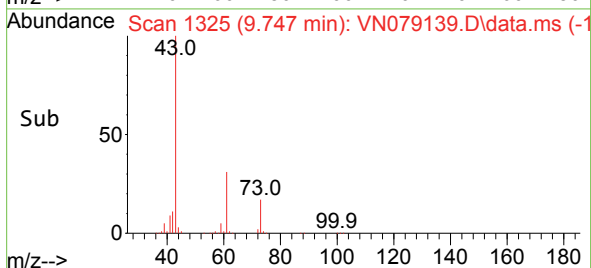
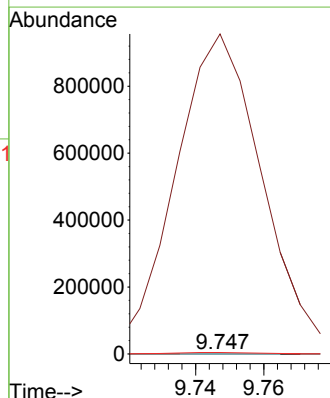
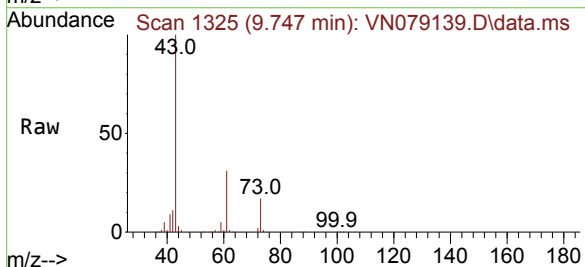
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#01

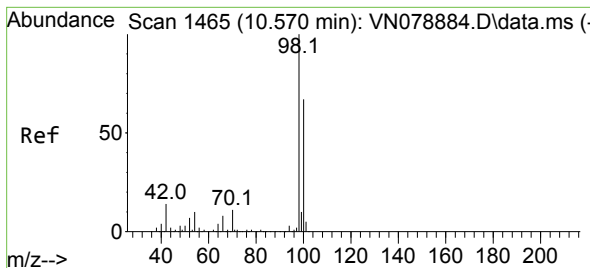
Tgt Ion: 41 Resp: 156942
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 50.9 54.6 81.8#



#49
1,4-Dioxane
Concen: 2.603 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

Tgt Ion: 88 Resp: 164
Ion Ratio Lower Upper
88 100
43 1056321.3 17.0 25.6#
58 4902.4 47.0 70.4#





#50

Toluene-d8

Concen: 52.499 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

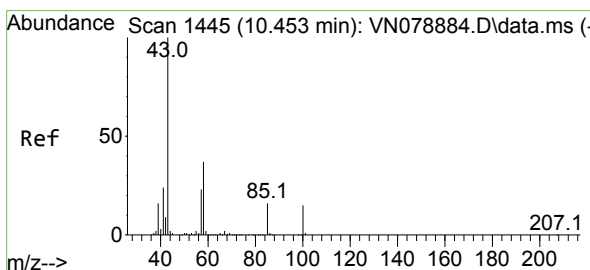
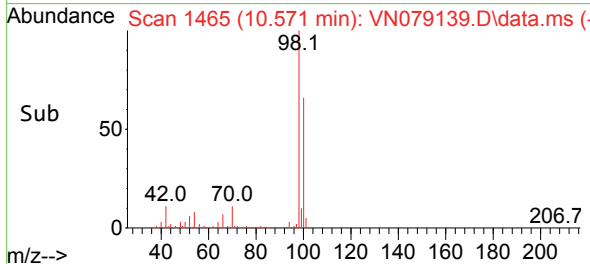
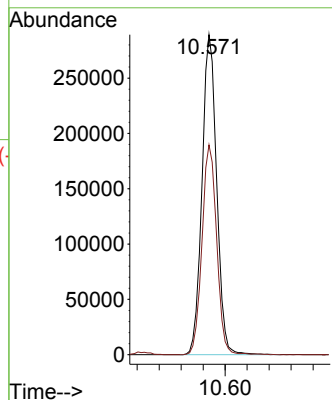
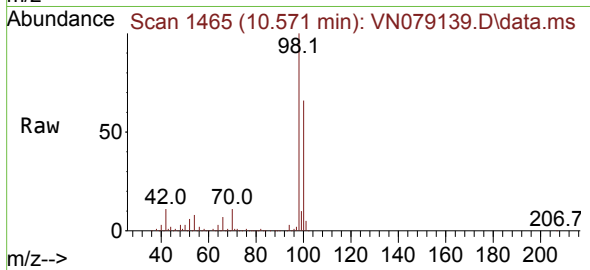
PB155301ZHE#01

Tgt Ion: 98 Resp: 534825

Ion Ratio Lower Upper

98 100

100 65.6 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 6.631 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.006 min

Lab File: VN079139.D

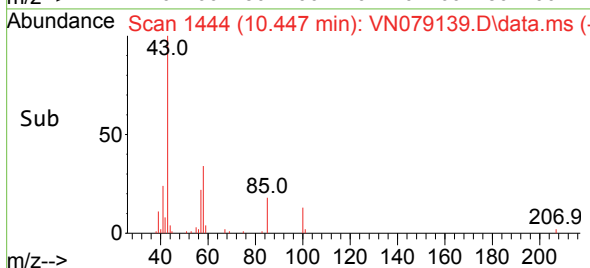
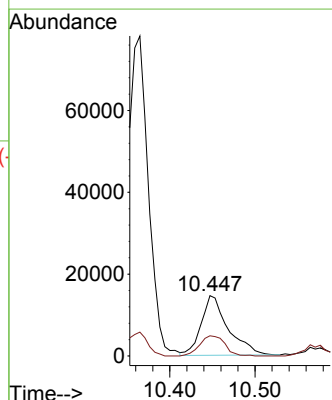
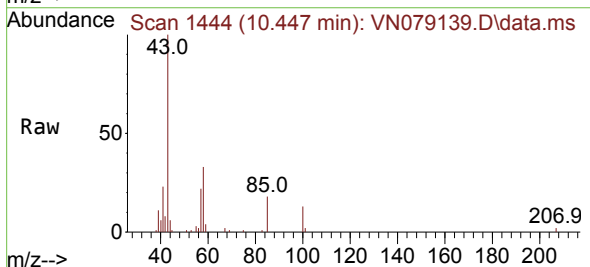
Acq: 02 Sep 2023 13:35

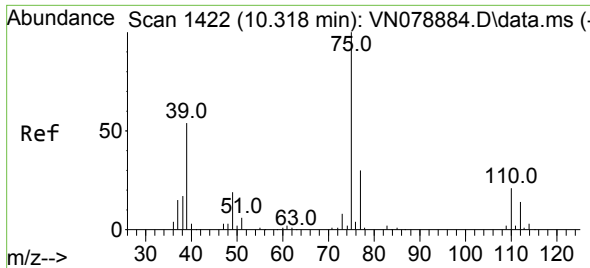
Tgt Ion: 43 Resp: 32099

Ion Ratio Lower Upper

43 100

58 31.6 36.6 54.8#

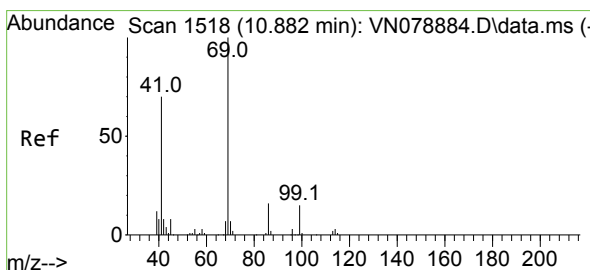
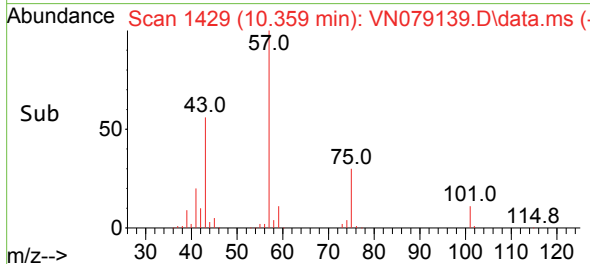
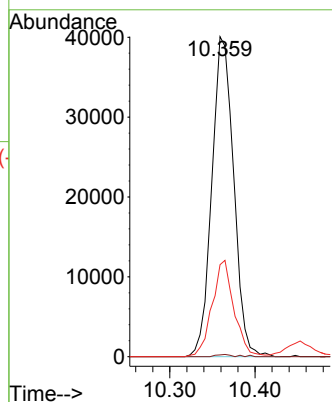
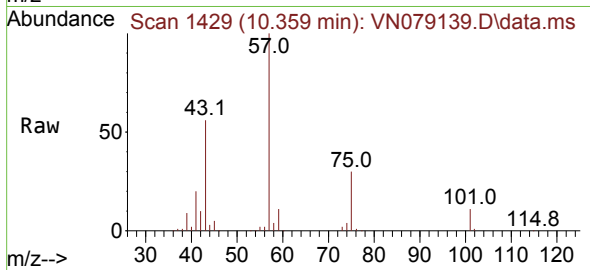




#54
 cis-1,3-Dichloropropene
 Concen: 13.915 ug/l
 RT: 10.359 min Scan# 14
 Delta R.T. 0.041 min
 Lab File: VN079139.D
 Acq: 02 Sep 2023 13:35

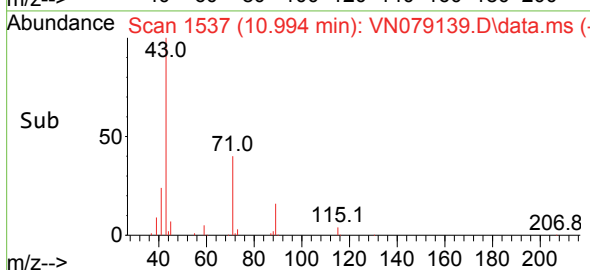
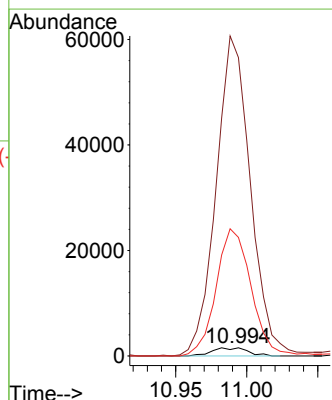
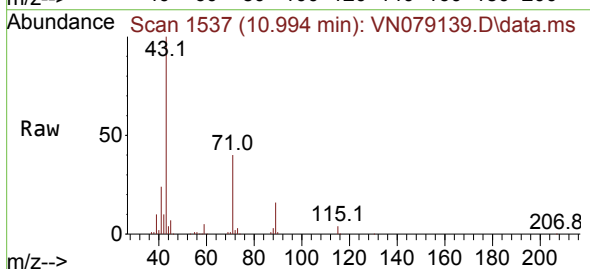
Instrument :
 MSVOA_N
 ClientSampleId :
 PB155301ZHE#01

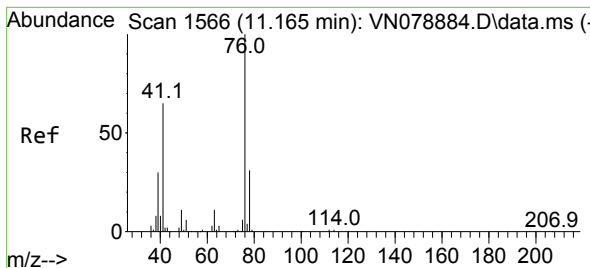
Tgt Ion: 75 Resp: 71489
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 28.8 31.6 47.4#



#56
 Ethyl methacrylate
 Concen: 0.575 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.117 min
 Lab File: VN079139.D
 Acq: 02 Sep 2023 13:35

Tgt Ion: 69 Resp: 2679
 Ion Ratio Lower Upper
 69 100
 41 3823.1 39.6 59.4#
 39 1547.7 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.841 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

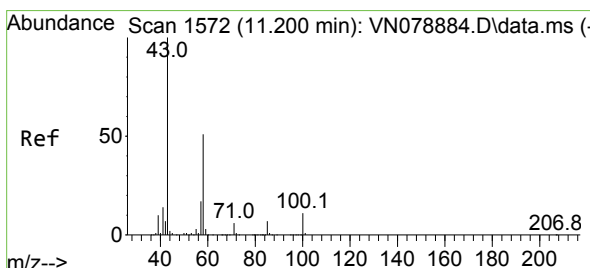
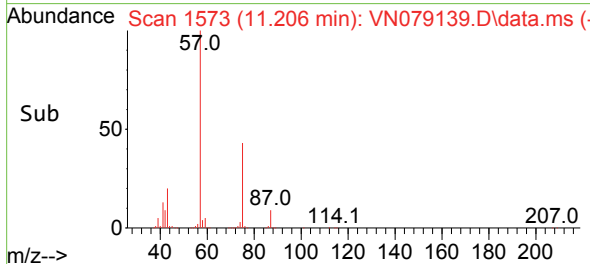
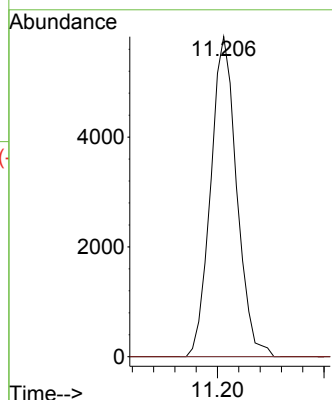
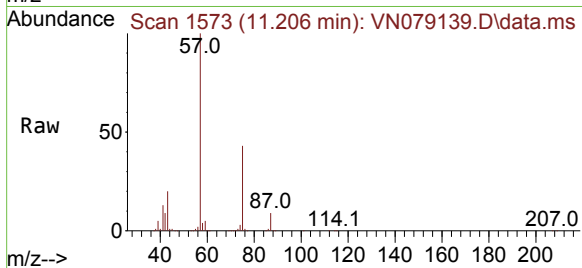
PB155301ZHE#01

Tgt Ion: 76 Resp: 9889

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 49.258 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN079139.D

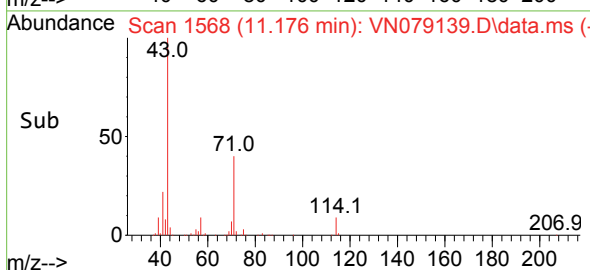
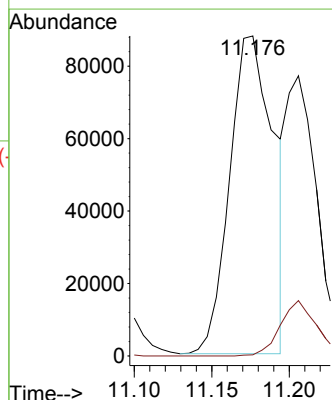
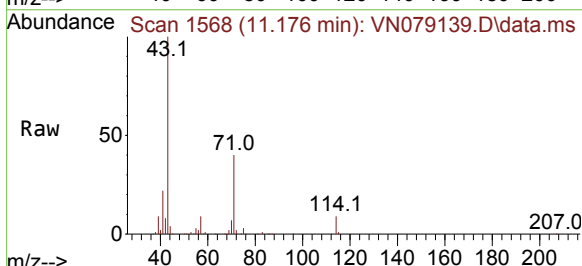
Acq: 02 Sep 2023 13:35

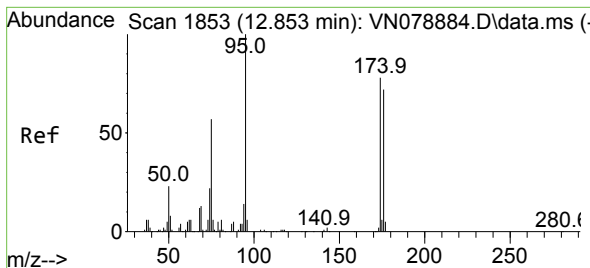
Tgt Ion: 43 Resp: 172702

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

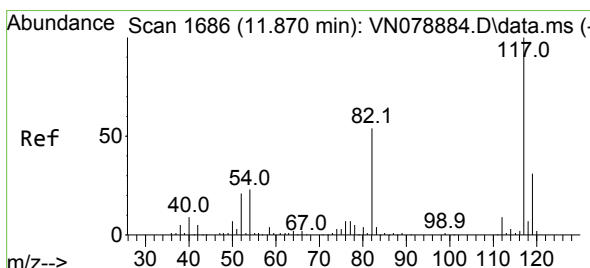
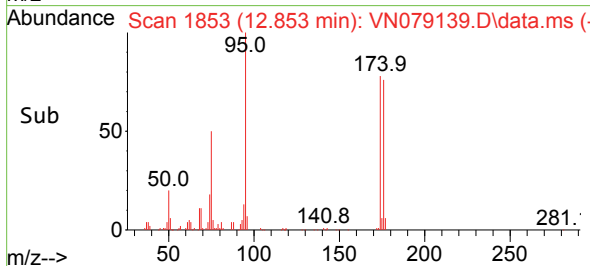
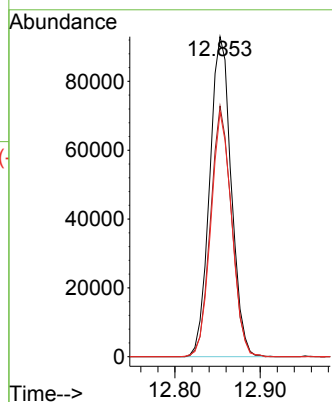
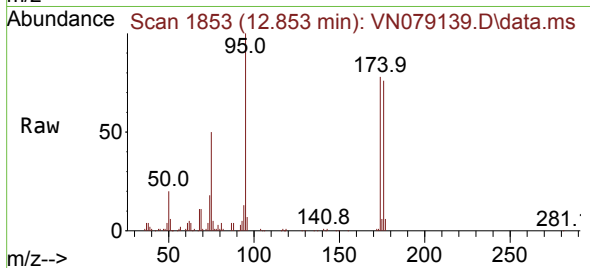




#62
4-Bromofluorobenzene
Concen: 49.144 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

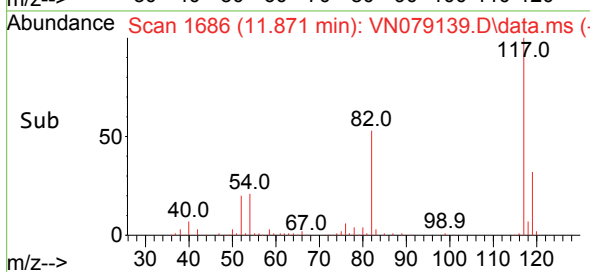
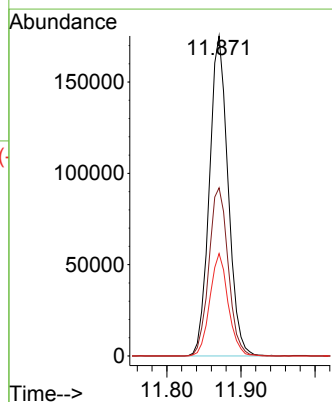
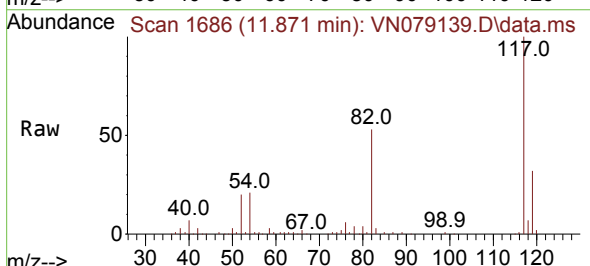
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#01

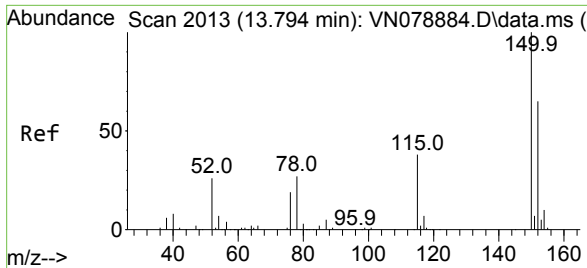
Tgt Ion: 95 Resp: 163641
Ion Ratio Lower Upper
95 100
174 76.1 0.0 143.8
176 73.9 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

Tgt Ion: 117 Resp: 306753
Ion Ratio Lower Upper
117 100
82 52.6 44.0 66.0
119 32.0 25.6 38.4

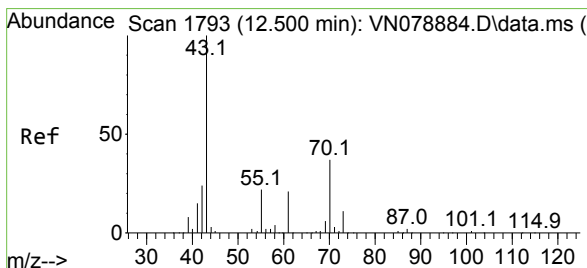
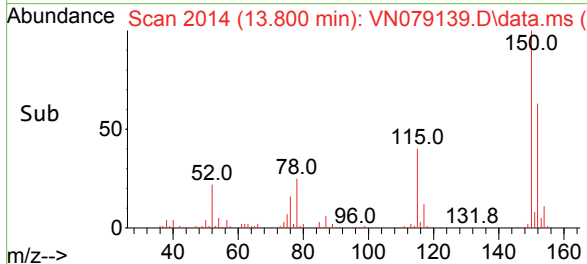
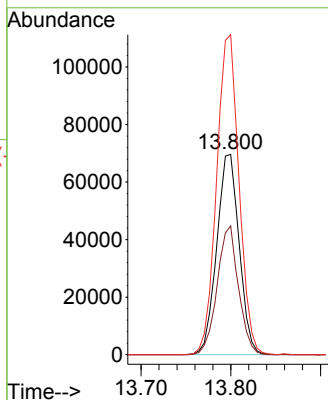
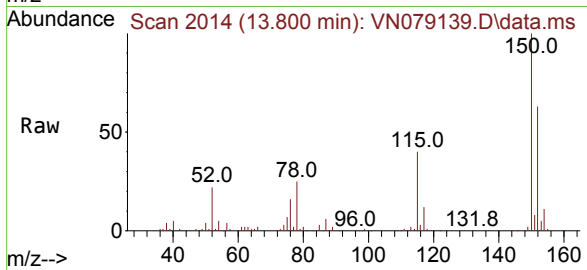




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

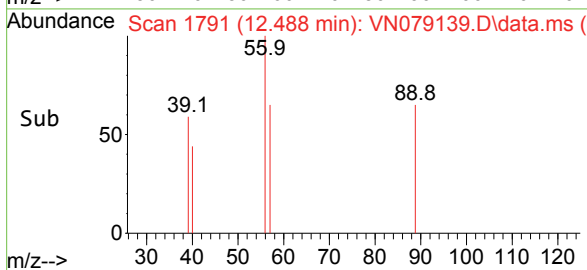
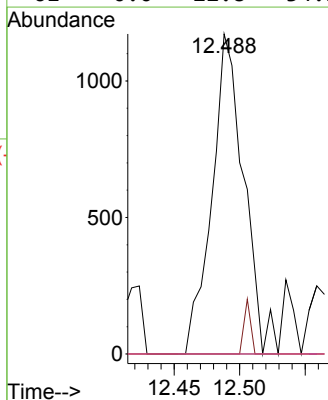
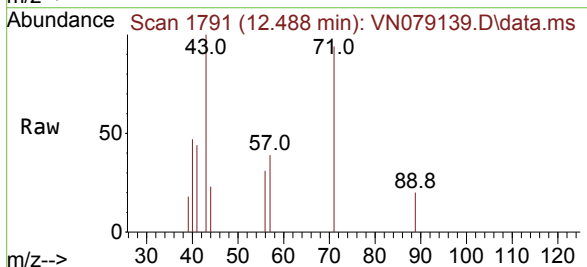
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#01

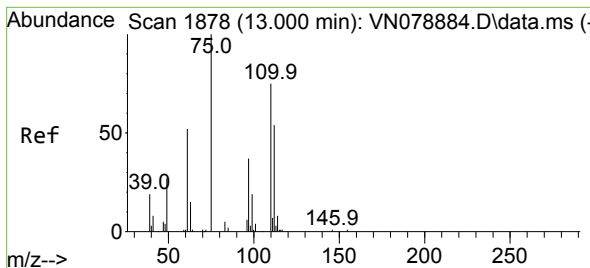
Tgt Ion:152 Resp: 120833
Ion Ratio Lower Upper
152 100
115 61.0 32.3 96.8
150 159.3 0.0 355.8



#74
N-ethyl acetate
Concen: 0.391 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

Tgt Ion: 43 Resp: 1986
Ion Ratio Lower Upper
43 100
70 3.6 43.4 65.2#
55 0.0 21.4 32.0#
61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 28.145 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

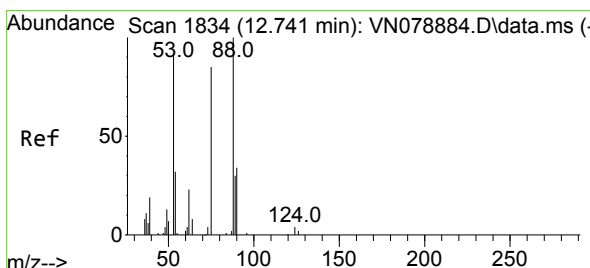
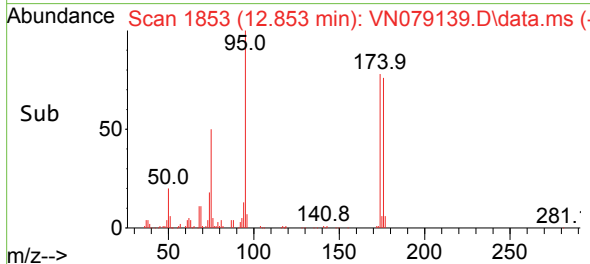
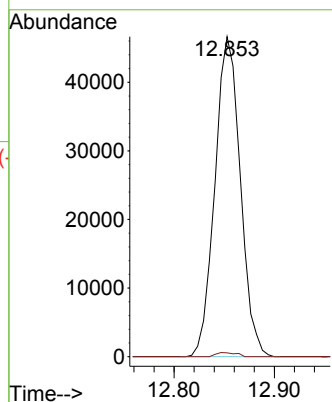
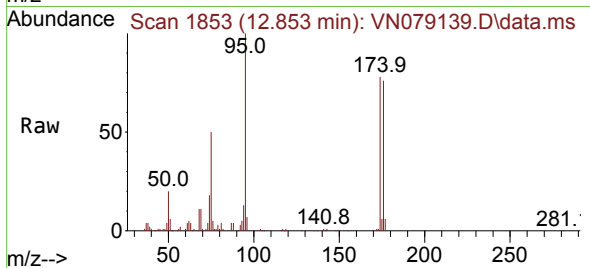
PB155301ZHE#01

Tgt Ion: 75 Resp: 81945

Ion Ratio Lower Upper

75 100

77 1.0 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.899 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

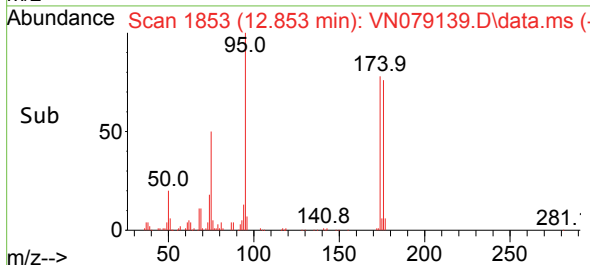
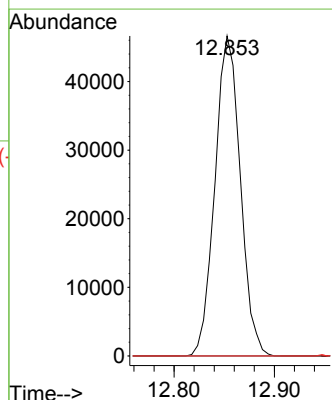
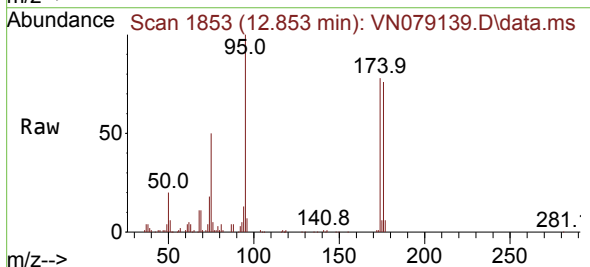
Tgt Ion: 75 Resp: 81945

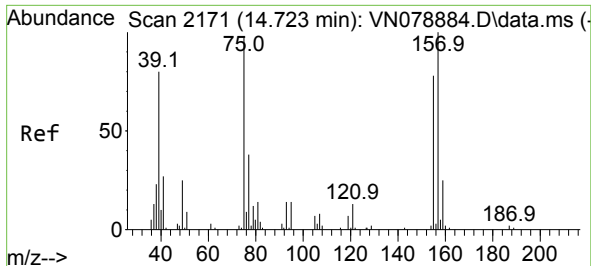
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#

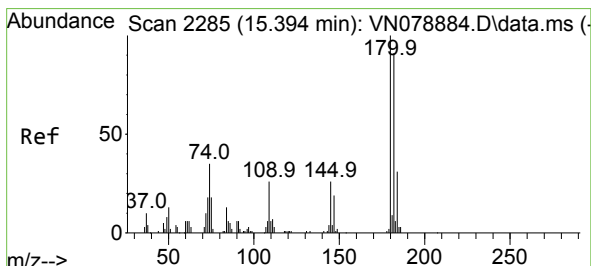
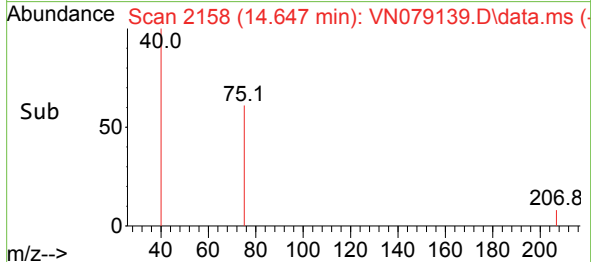
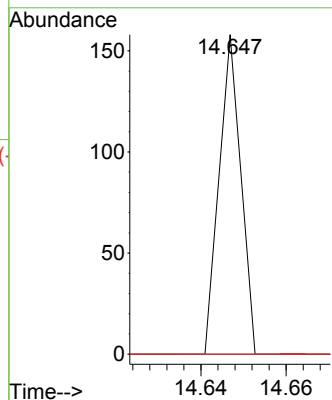
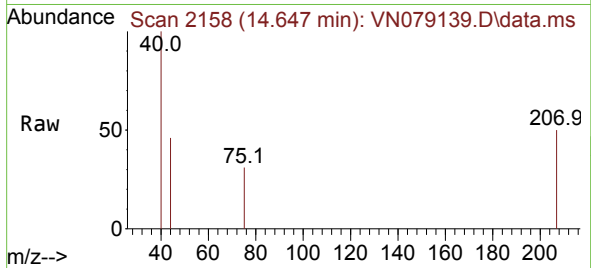




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.647 min Scan# 2171
Delta R.T. -0.076 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

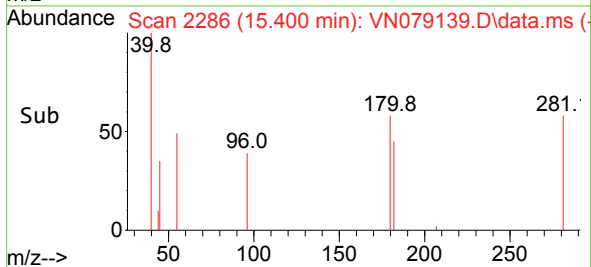
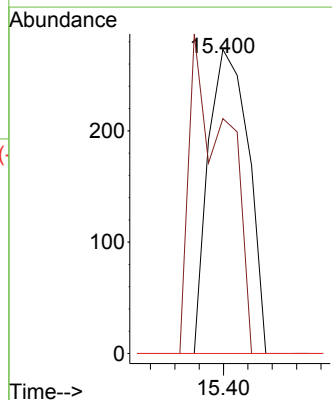
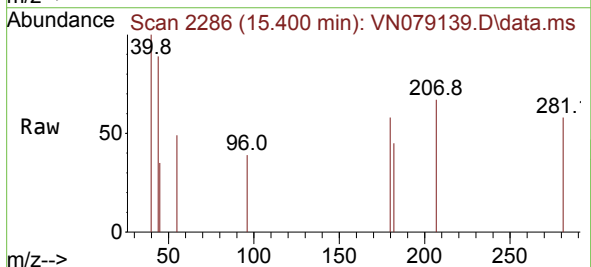
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#01

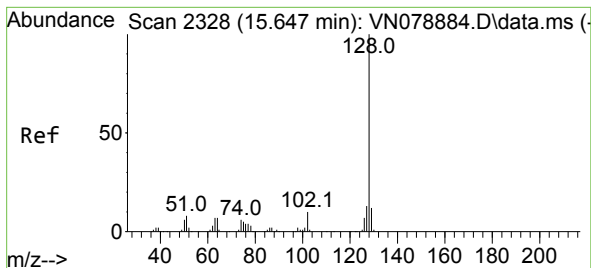
Tgt Ion: 75 Resp: 56
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#



#93
1,2,4-Trichlorobenzene
Concen: 0.212 ug/l
RT: 15.400 min Scan# 2286
Delta R.T. -0.000 min
Lab File: VN079139.D
Acq: 02 Sep 2023 13:35

Tgt Ion:180 Resp: 312
Ion Ratio Lower Upper
180 100
182 98.1 46.1 138.2
145 0.0 16.6 49.8#





#95

Naphthalene

Concen: 2.883 ug/l

RT: 15.647 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

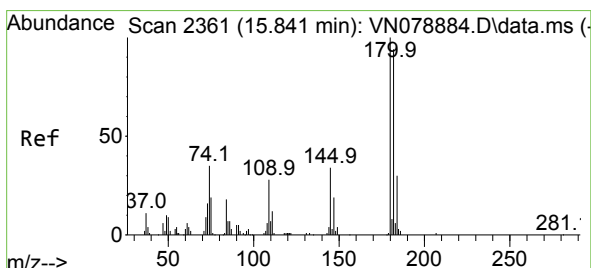
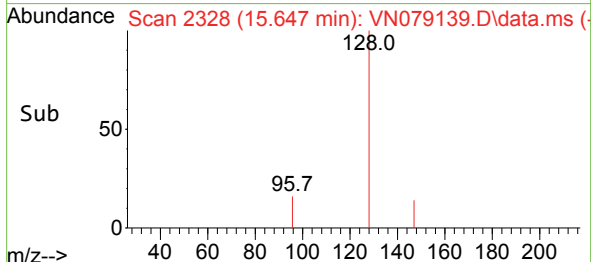
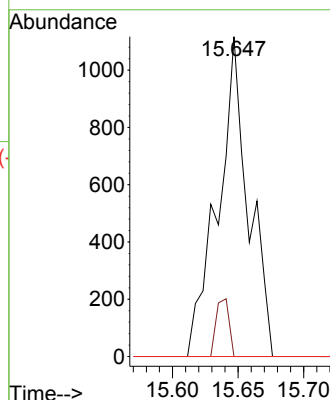
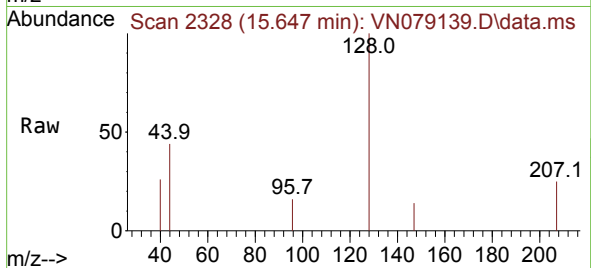
Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#01

Tgt Ion:	128	Resp:	1812
Ion	Ratio	Lower	Upper
128	100		
127	7.6	10.0	15.0#
129	0.0	8.7	13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.336 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. -0.000 min

Lab File: VN079139.D

Acq: 02 Sep 2023 13:35

Tgt Ion:	180	Resp:	540
Ion	Ratio	Lower	Upper
180	100		
182	88.3	46.2	138.6
145	0.0	17.5	52.6#

