

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090223\
 Data File : VN079143.D
 Acq On : 02 Sep 2023 15:11
 Operator : JC\MD
 Sample : PB155301ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB155301ZHE#05

Quant Time: Sep 04 01:04:31 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)

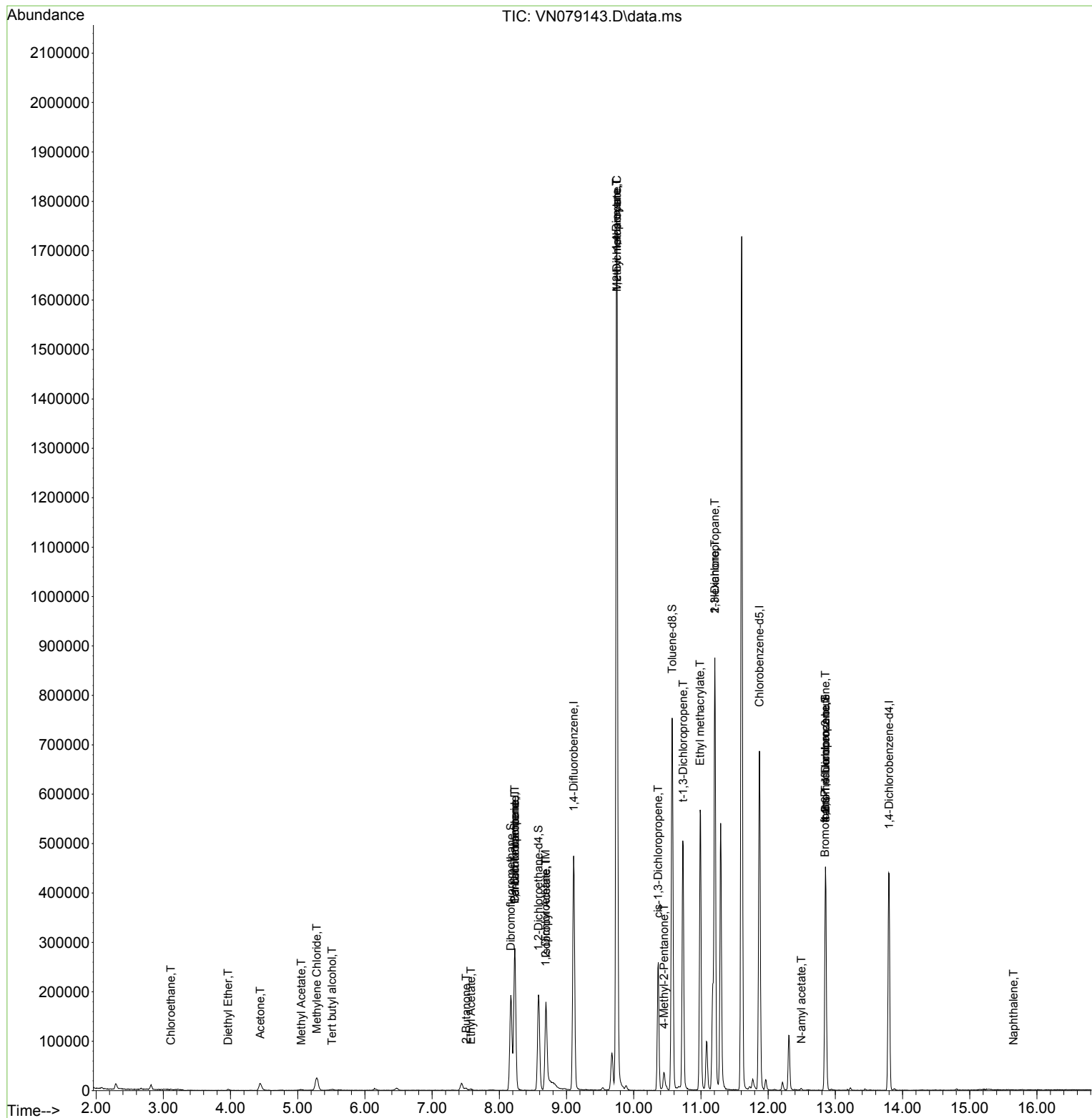
Internal Standards						
1) Pentafluorobenzene	8.230	168	210027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	411274	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	411521	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	124376	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	158625	48.536	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.080%		
35) Dibromofluoromethane	8.171	113	139375	50.343	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.680%		
50) Toluene-d8	10.571	98	533269	51.876	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.760%		
62) 4-Bromofluorobenzene	12.853	95	162385	48.329	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.660%		
Target Compounds					Qvalue	
6) Chloroethane	3.112	64	566	0.227	ug/l #	43
8) Diethyl Ether	3.965	74	1263	0.767	ug/l	85
11) Tert butyl alcohol	5.512	59	1628	2.969	ug/l #	72
16) Acetone	4.442	43	28175	20.893	ug/l	92
18) Methyl Acetate	5.053	43	3490	0.613	ug/l #	59
20) Methylene Chloride	5.283	84	19681	6.849	ug/l #	81
25) 2-Butanone	7.506	43	8161	3.775	ug/l #	80
31) Cyclohexane	8.236	56	4487	Below Cal	#	23
36) 1,1-Dichloropropene	8.230	75	17437	4.187	ug/l #	47
37) Ethyl Acetate	7.577	43	4480	0.961	ug/l #	68
38) Carbon Tetrachloride	8.230	117	21643	5.187	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	1445	0.314	ug/l #	73
43) Isopropyl Acetate	8.694	43	217178	26.371	ug/l #	77
45) 1,2-Dichloropropane	9.747	63	2362	0.721	ug/l #	45
48) Methyl methacrylate	9.747	41	155404	41.641	ug/l #	26
49) 1,4-Dioxane	9.741	88	234	3.681	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	29480	6.035	ug/l #	82
53) t-1,3-Dichloropropene	10.735	75	1199	0.252	ug/l	92
54) cis-1,3-Dichloropropene	10.365	75	45848	8.844	ug/l #	71
56) Ethyl methacrylate	10.988	69	2496	0.531	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9049	1.670	ug/l #	42
59) 2-Hexanone	11.206	43	107001	30.244	ug/l #	48
71) Bromoform	12.847	173	861	0.358	ug/l #	1
74) N-amyl acetate	12.494	43	1132	0.216	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	84154	28.081	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	84154	71.734	ug/l #	15
95) Naphthalene	15.653	128	143	2.598	ug/l #	70

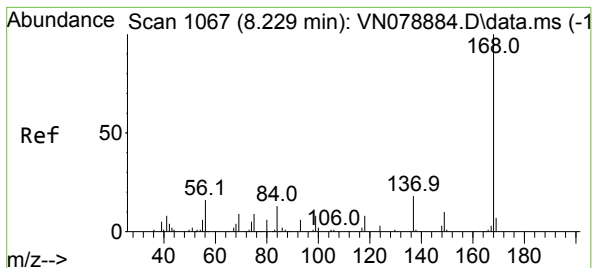
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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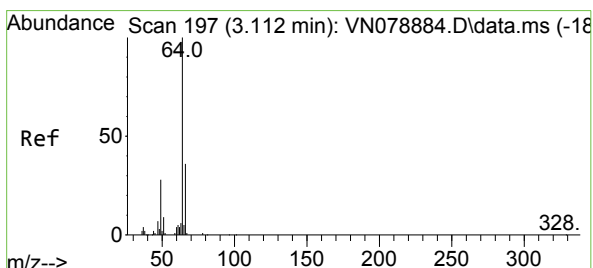
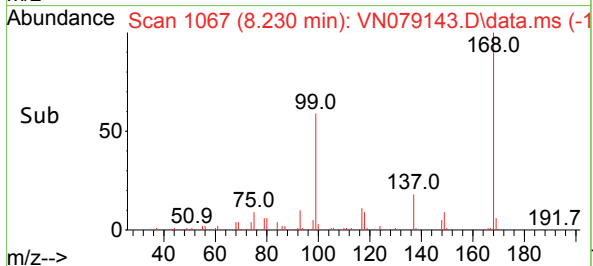
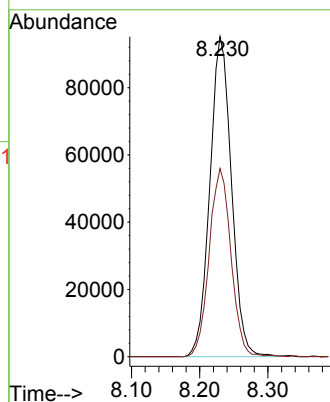
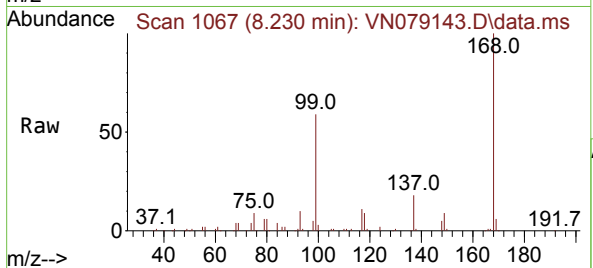




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

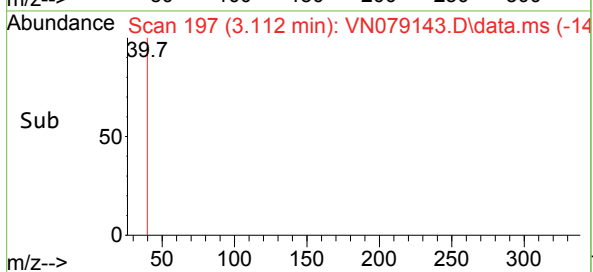
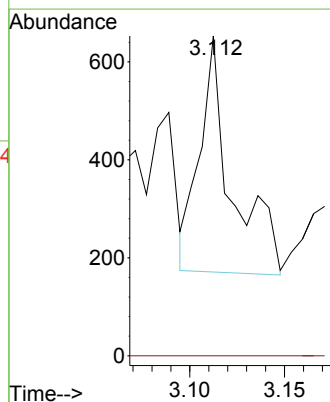
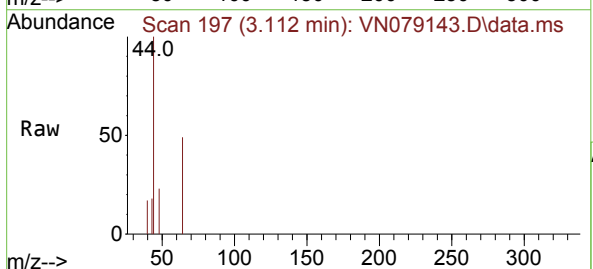
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

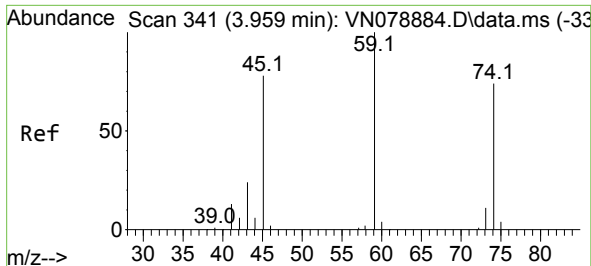
Tgt Ion:168 Resp: 210027
Ion Ratio Lower Upper
168 100
99 58.8 53.0 79.6



#6
Chloroethane
Concen: 0.227 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Tgt Ion: 64 Resp: 566
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#8

Diethyl Ether

Concen: 0.767 ug/l

RT: 3.965 min Scan# 341

Delta R.T. -0.006 min

Lab File: VN079143.D

Acq: 02 Sep 2023 15:11

Instrument :

MSVOA_N

ClientSampleId :

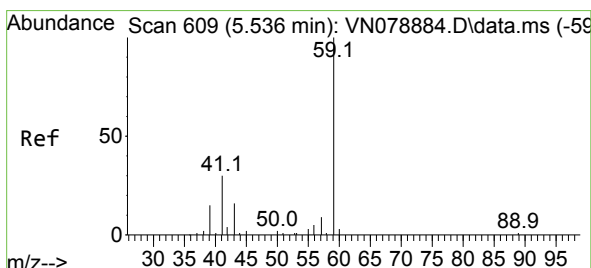
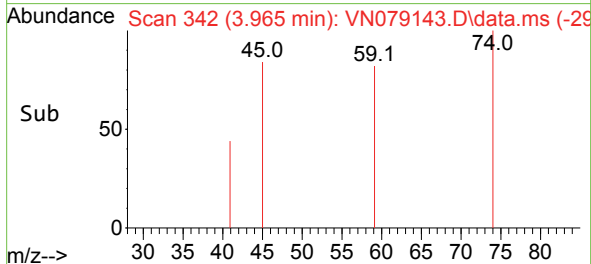
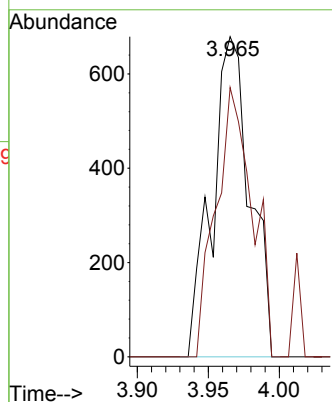
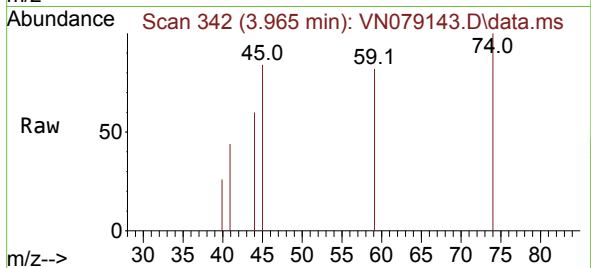
PB155301ZHE#05

Tgt Ion: 74 Resp: 1263

Ion Ratio Lower Upper

74 100

45 81.1 34.4 103.3



#11

Tert butyl alcohol

Concen: 2.969 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.030 min

Lab File: VN079143.D

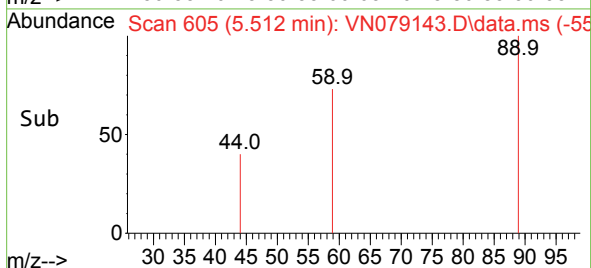
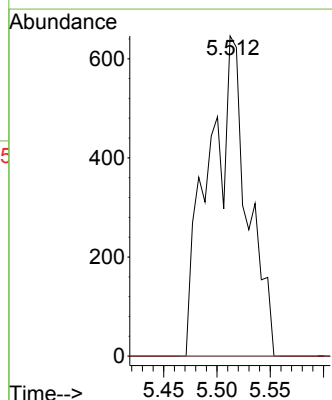
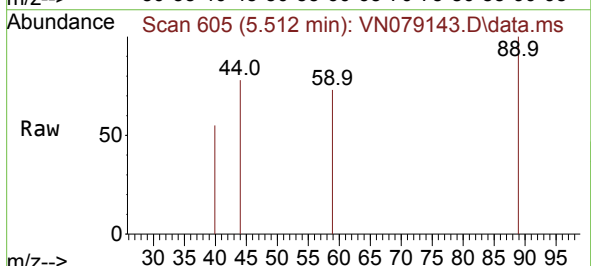
Acq: 02 Sep 2023 15:11

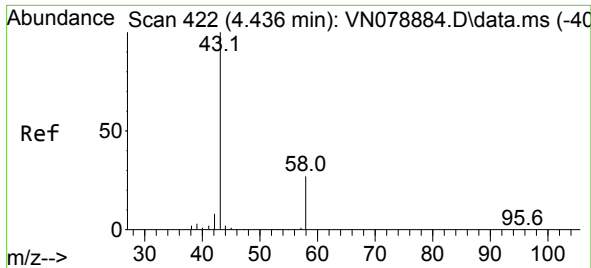
Tgt Ion: 59 Resp: 1628

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

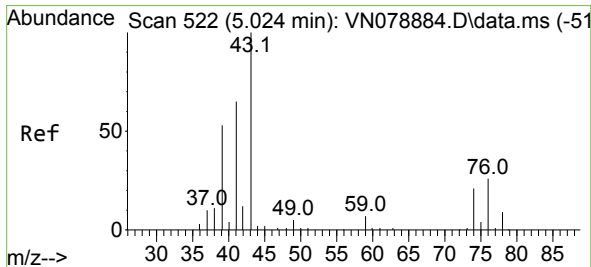
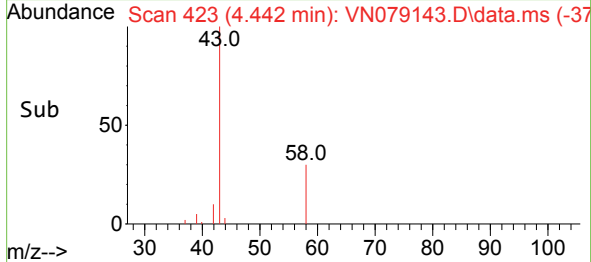
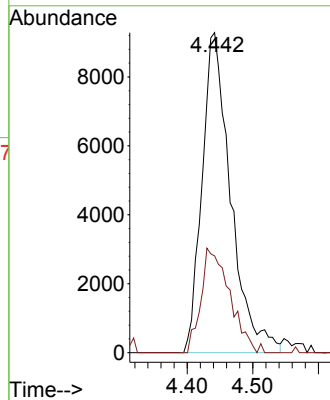
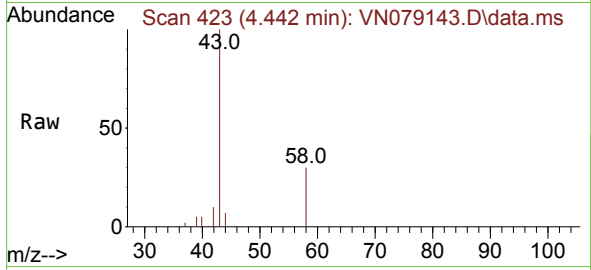




#16
Acetone
Concen: 20.893 ug/l
RT: 4.442 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

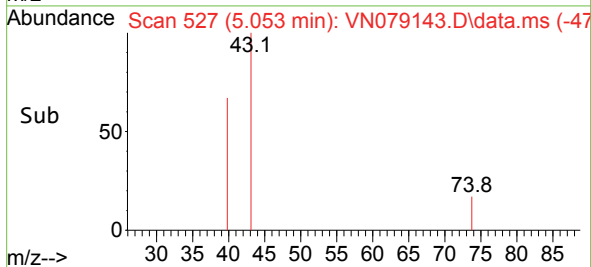
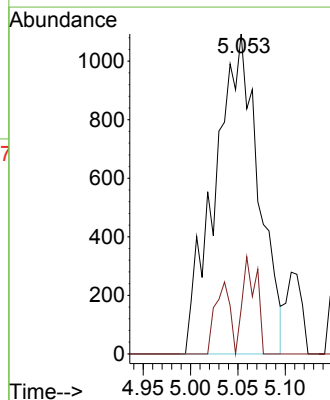
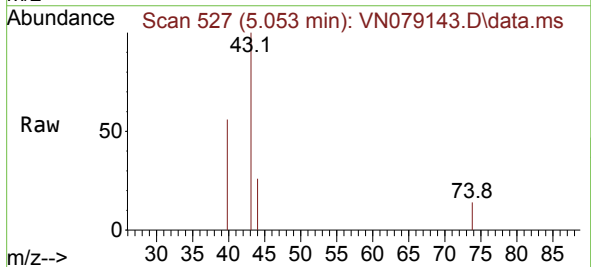
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

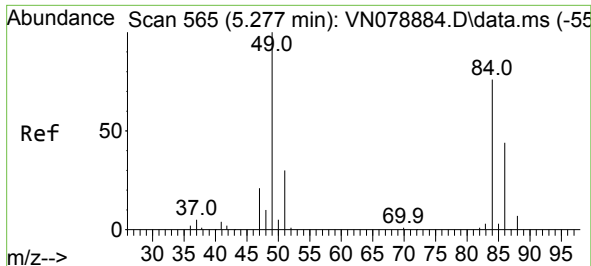
Tgt Ion: 43 Resp: 28175
Ion Ratio Lower Upper
43 100
58 30.2 28.0 42.0



#18
Methyl Acetate
Concen: 0.613 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.011 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

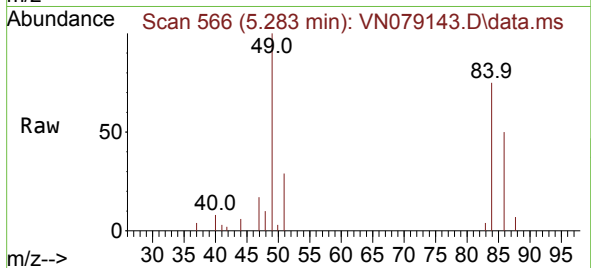
Tgt Ion: 43 Resp: 3490
Ion Ratio Lower Upper
43 100
74 9.8 26.2 39.4#



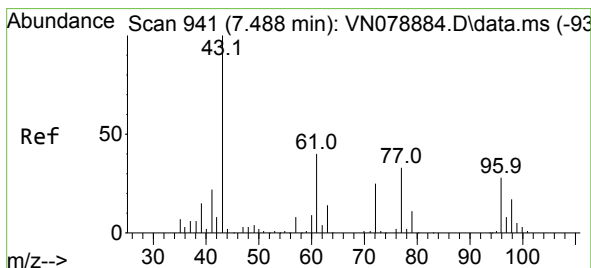
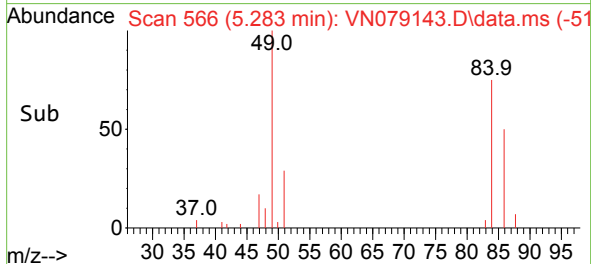
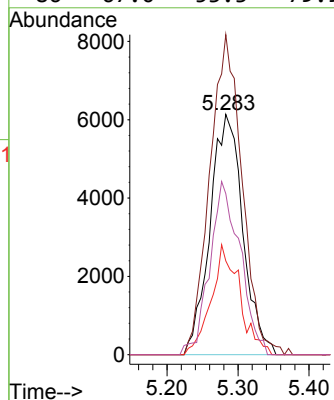


#20
Methylene Chloride
Concen: 6.849 ug/l
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

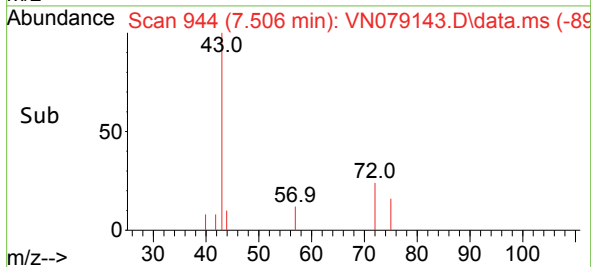
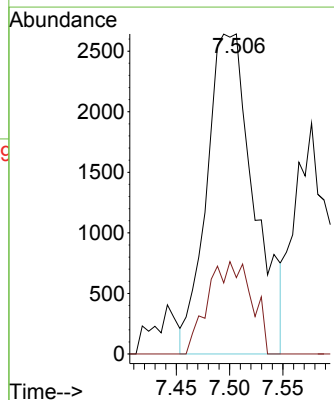
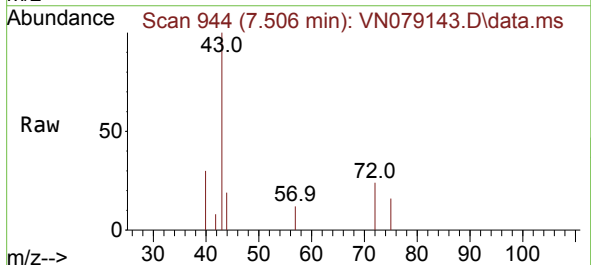


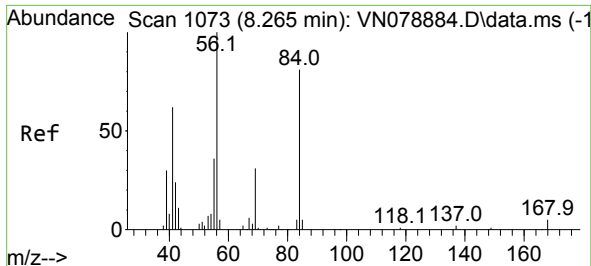
Tgt Ion: 84	Resp: 19681
Ion Ratio	Lower Upper
84 100	
49 133.2	79.7 119.5#
51 39.0	25.2 37.8#
86 67.0	53.3 79.9



#25
2-Butanone
Concen: 3.775 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

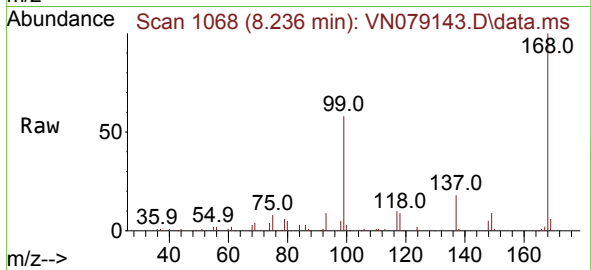
Tgt Ion: 43	Resp: 8161
Ion Ratio	Lower Upper
43 100	
72 25.9	30.2 45.2#



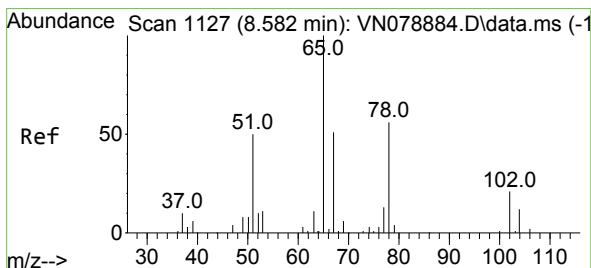
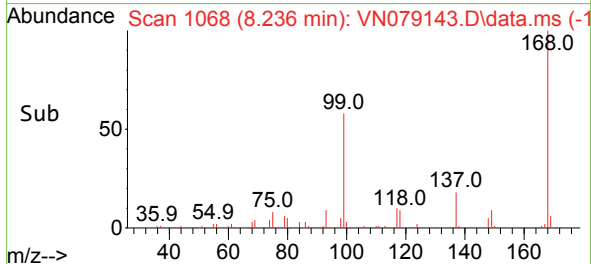
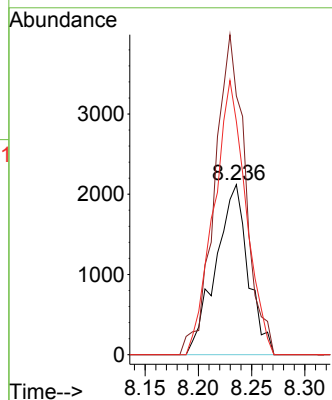


#31
Cyclohexane
Concen: Below Cal
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

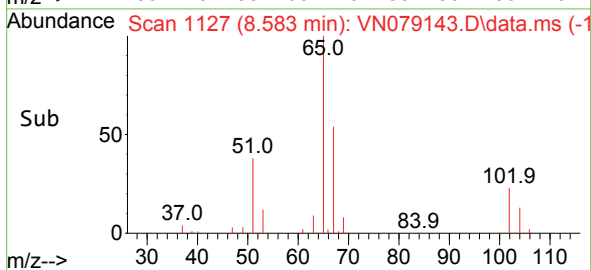
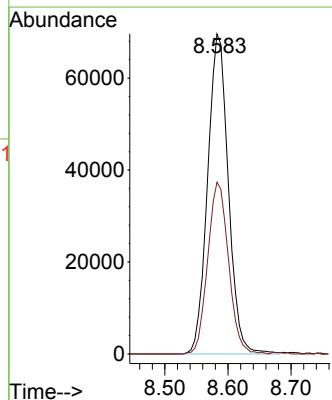
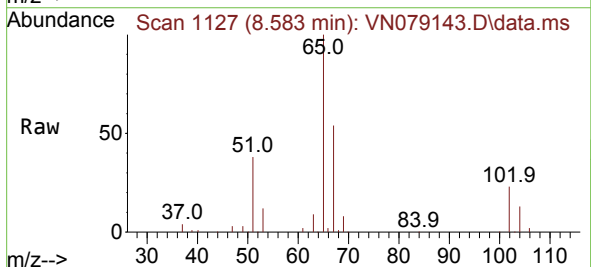


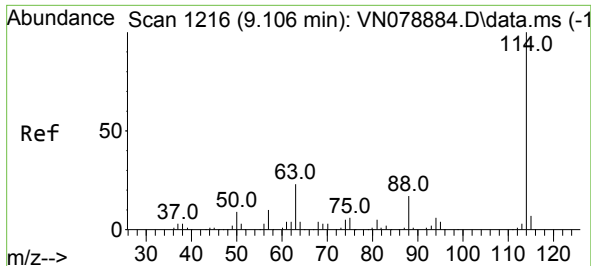
Tgt Ion: 56 Resp: 4487
Ion Ratio Lower Upper
56 100
69 152.1 26.8 40.2#
84 137.1 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.536 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Tgt Ion: 65 Resp: 158625
Ion Ratio Lower Upper
65 100
67 53.9 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN079143.D

Acq: 02 Sep 2023 15:11

Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#05

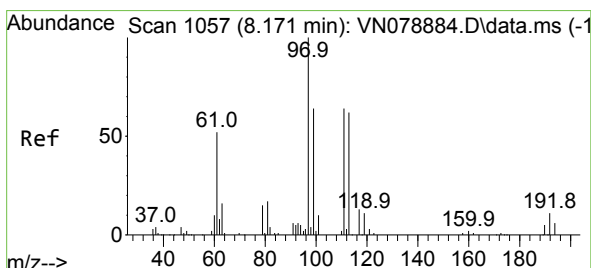
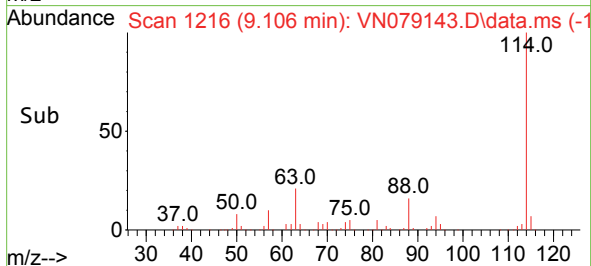
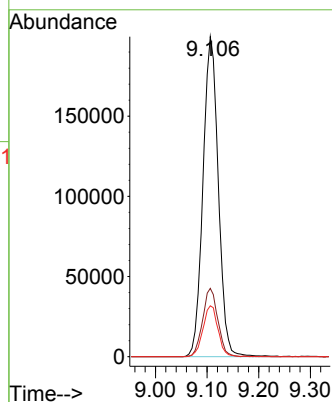
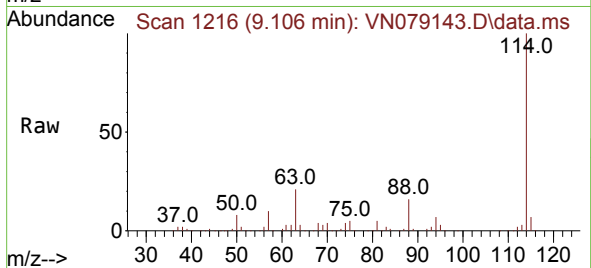
Tgt Ion:114 Resp: 411274

Ion Ratio Lower Upper

114 100

63 21.3 0.0 36.4

88 15.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.343 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079143.D

Acq: 02 Sep 2023 15:11

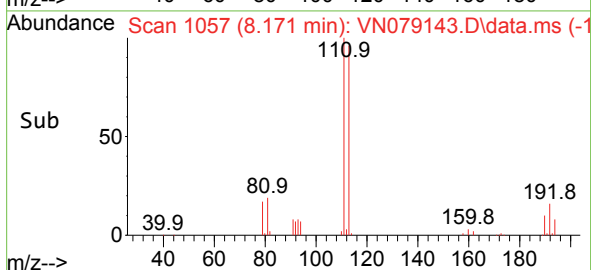
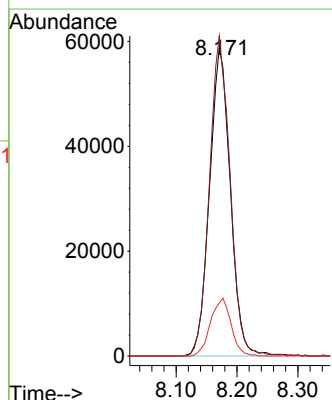
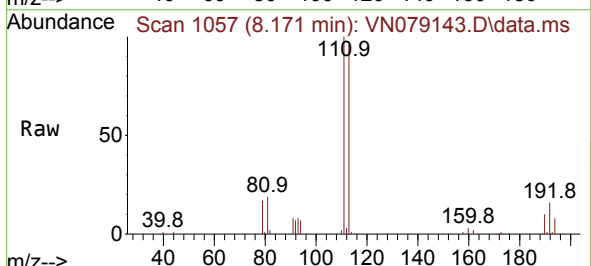
Tgt Ion:113 Resp: 139375

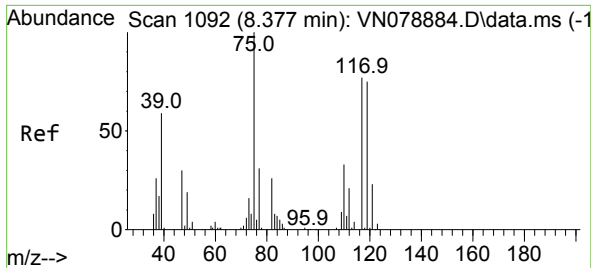
Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

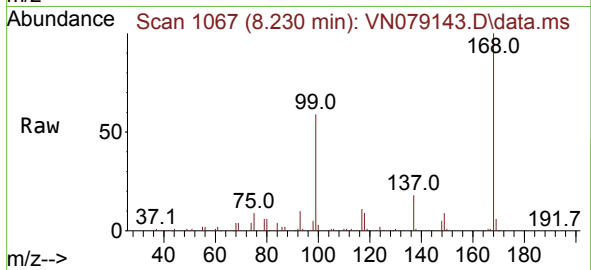
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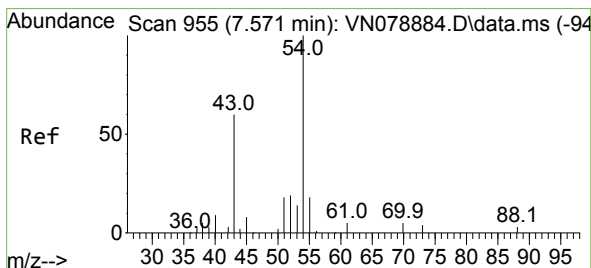
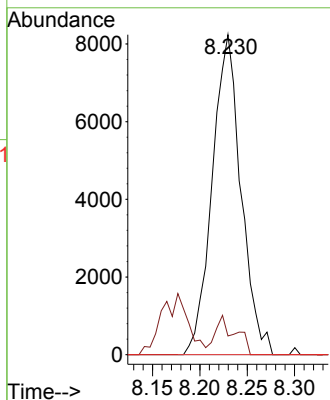
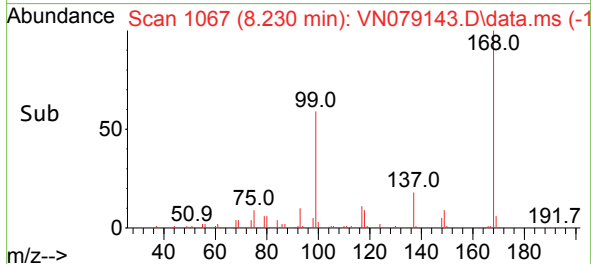


#36
 1,1-Dichloropropene
 Concen: 4.187 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN079143.D
 Acq: 02 Sep 2023 15:11

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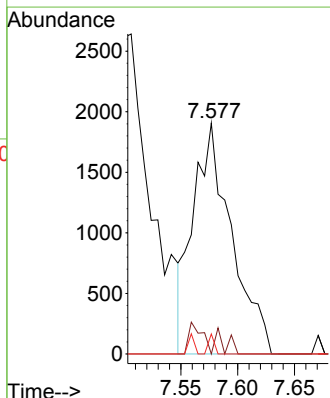
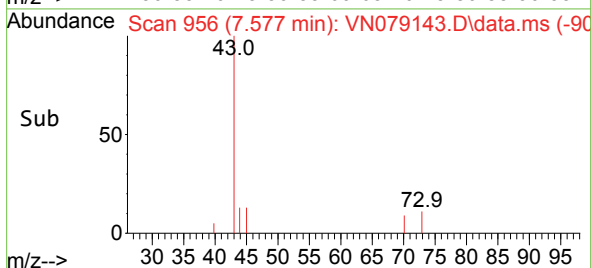
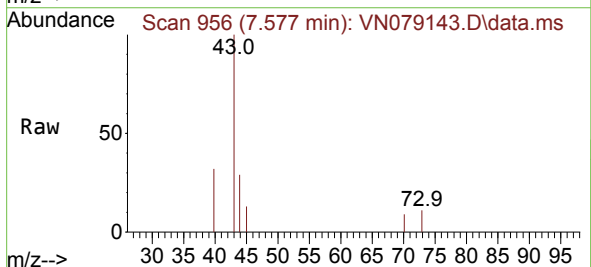


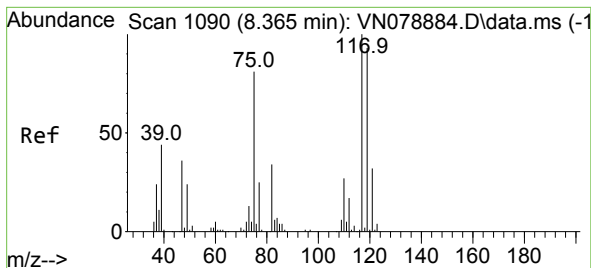
Tgt Ion: 75 Resp: 17437
 Ion Ratio Lower Upper
 75 100
 110 8.5 19.1 57.3#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 0.961 ug/l
 RT: 7.577 min Scan# 956
 Delta R.T. 0.006 min
 Lab File: VN079143.D
 Acq: 02 Sep 2023 15:11

Tgt Ion: 43 Resp: 4480
 Ion Ratio Lower Upper
 43 100
 61 2.9 13.2 19.8#
 70 1.3 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.187 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VN079143.D

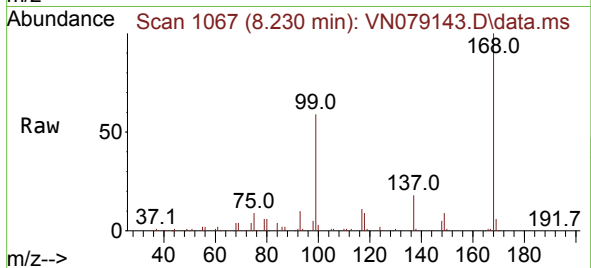
Acq: 02 Sep 2023 15:11

Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#05



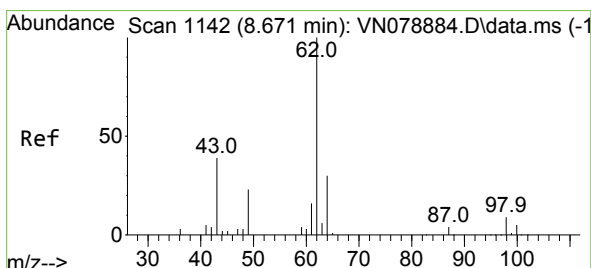
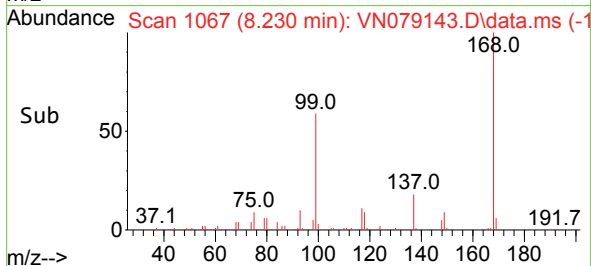
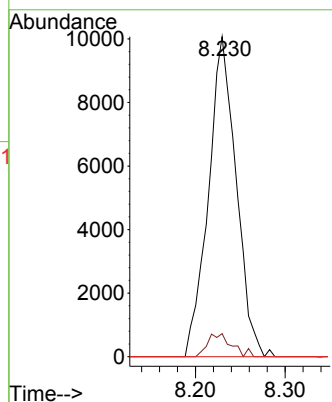
Tgt Ion:117 Resp: 21643

Ion Ratio Lower Upper

117 100

119 7.2 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.314 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN079143.D

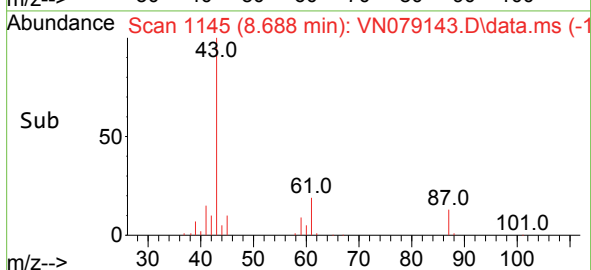
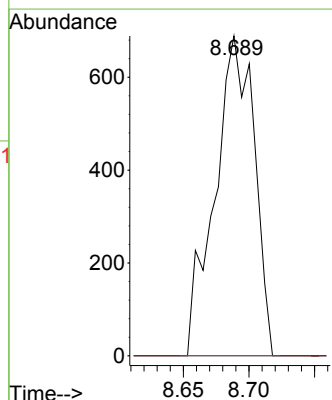
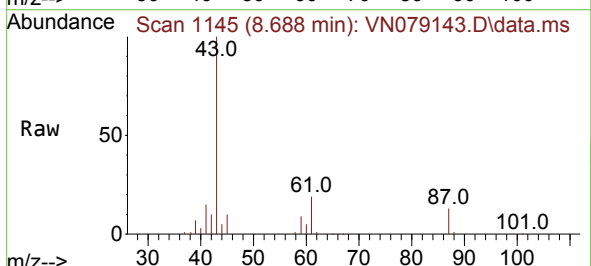
Acq: 02 Sep 2023 15:11

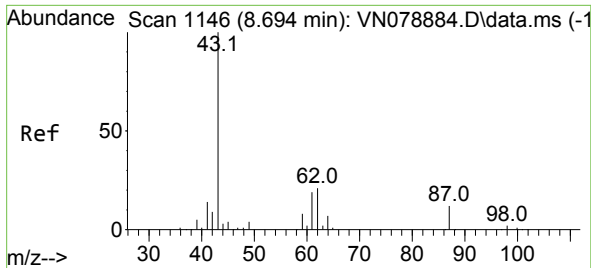
Tgt Ion: 62 Resp: 1445

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

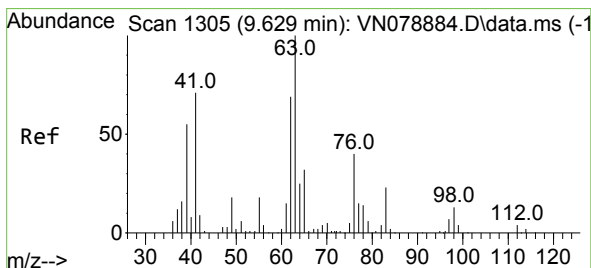
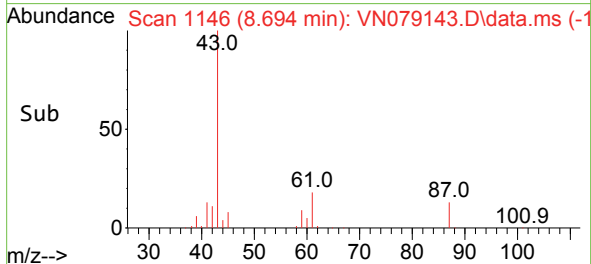
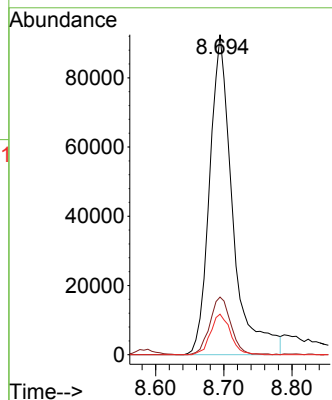
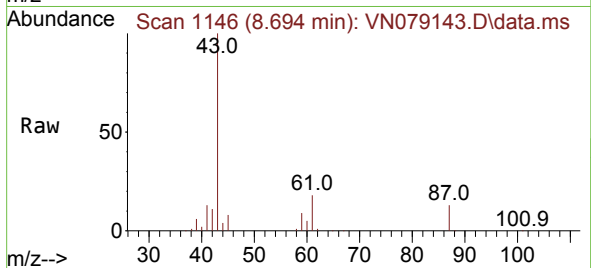




#43
Isopropyl Acetate
Concen: 26.371 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

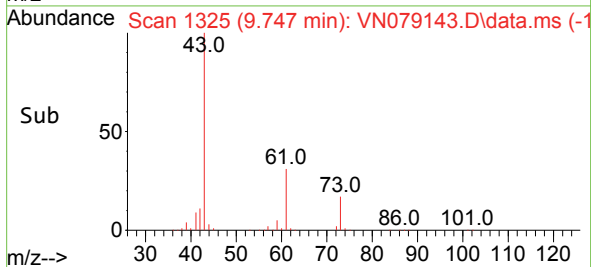
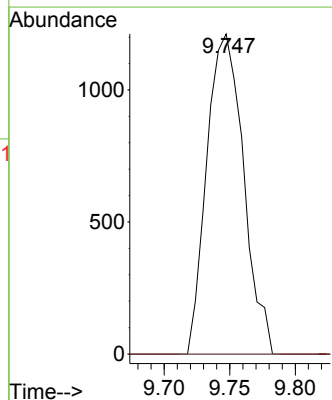
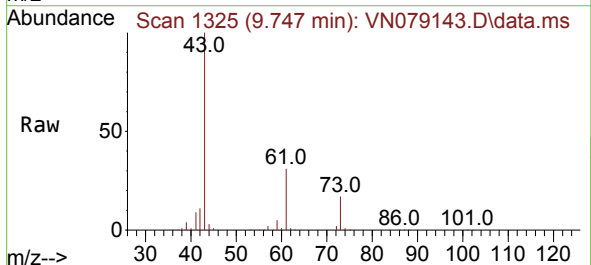
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

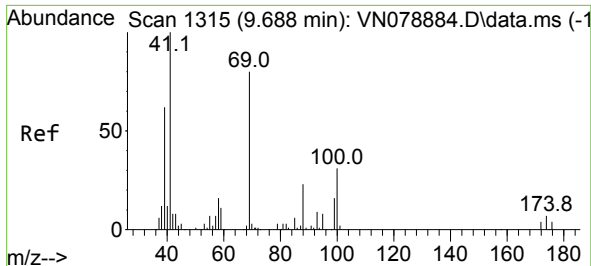
Tgt Ion: 43 Resp: 217178
Ion Ratio Lower Upper
43 100
61 16.4 24.7 37.1#
87 11.0 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.721 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Tgt Ion: 63 Resp: 2362
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

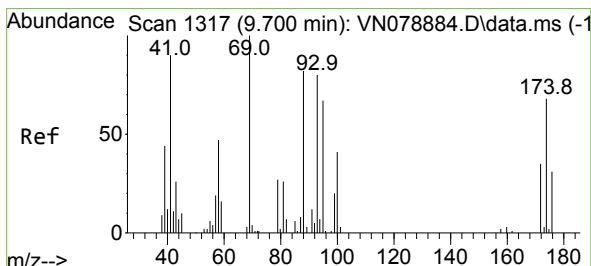
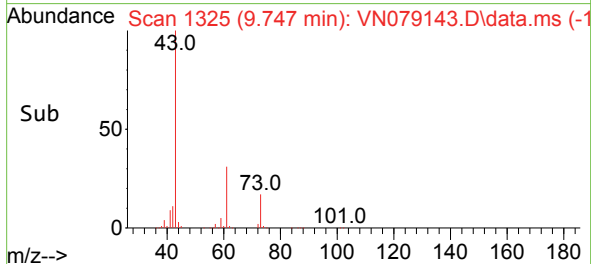
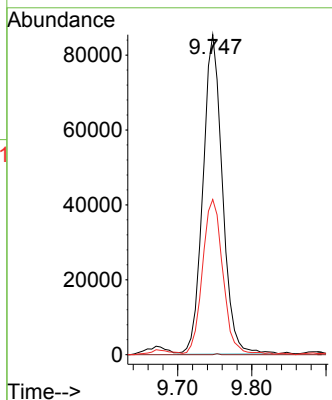
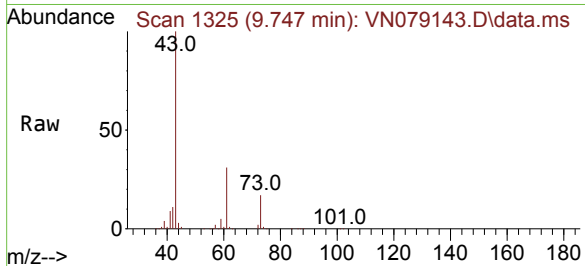




#48
Methyl methacrylate
Concen: 41.641 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

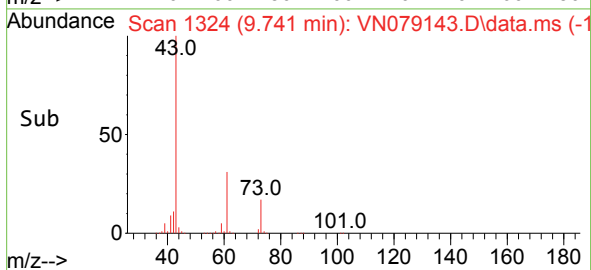
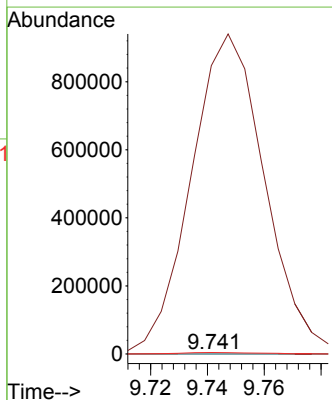
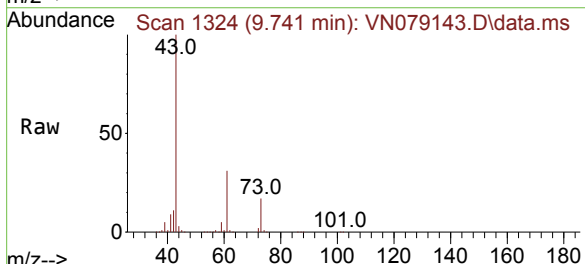
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

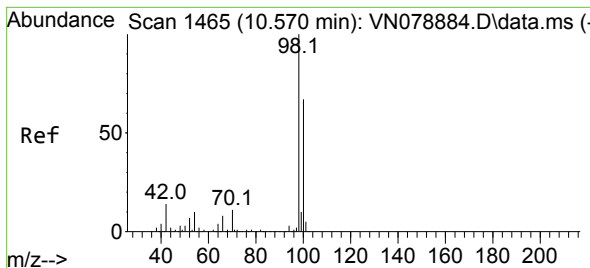
Tgt Ion: 41 Resp: 155404
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 50.4 54.6 81.8#



#49
1,4-Dioxane
Concen: 3.681 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.041 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Tgt Ion: 88 Resp: 234
Ion Ratio Lower Upper
88 100
43 733558.5 17.0 25.6#
58 3526.9 47.0 70.4#





#50

Toluene-d8

Concen: 51.876 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079143.D

Acq: 02 Sep 2023 15:11

Instrument :

MSVOA_N

ClientSampleId :

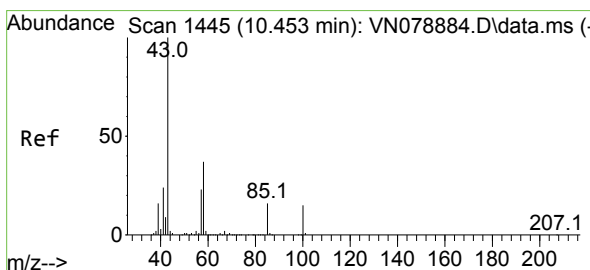
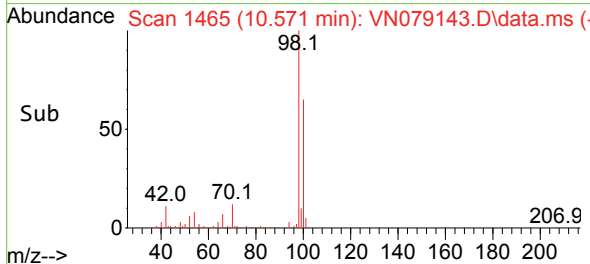
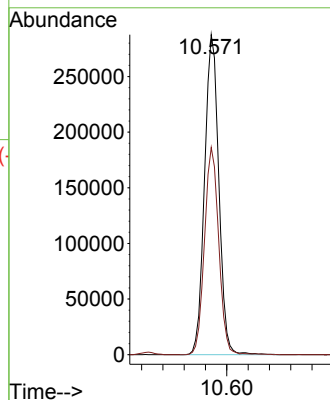
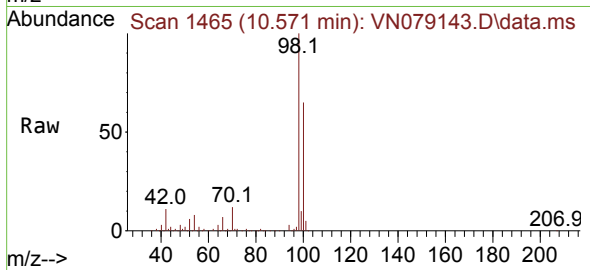
PB155301ZHE#05

Tgt Ion: 98 Resp: 533269

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 6.035 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.000 min

Lab File: VN079143.D

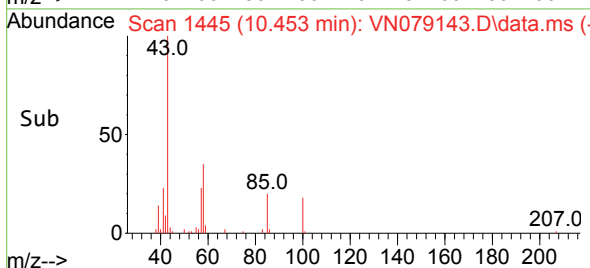
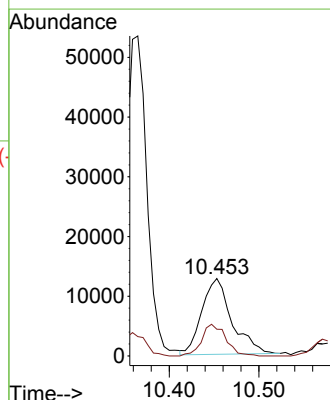
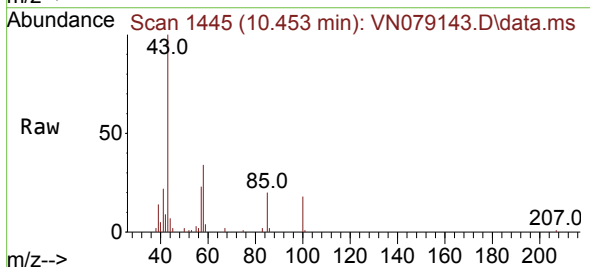
Acq: 02 Sep 2023 15:11

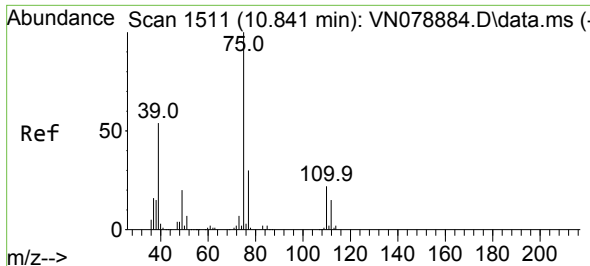
Tgt Ion: 43 Resp: 29480

Ion Ratio Lower Upper

43 100

58 33.7 36.6 54.8#

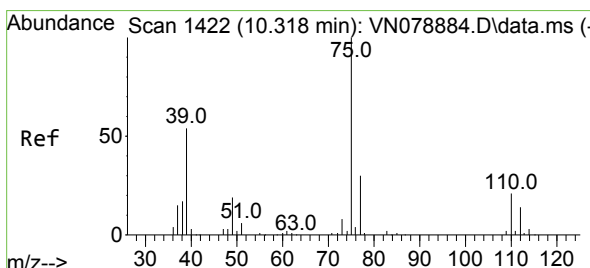
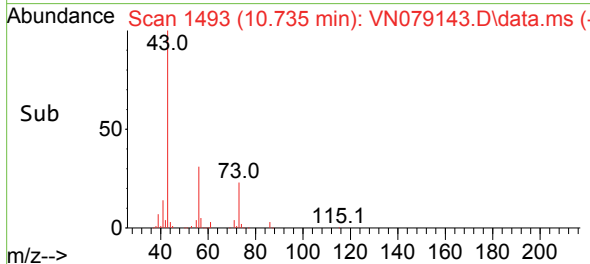
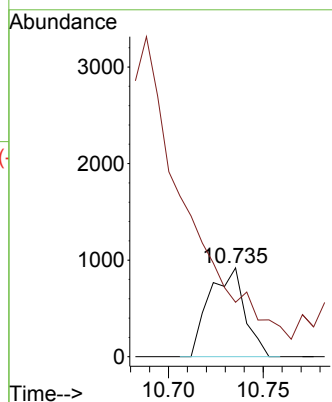
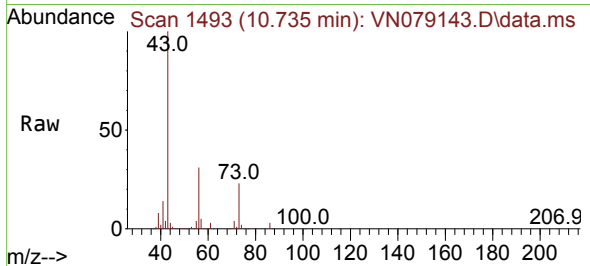




#53
 t-1,3-Dichloropropene
 Concen: 0.252 ug/l
 RT: 10.735 min Scan# 14
 Delta R.T. -0.106 min
 Lab File: VN079143.D
 Acq: 02 Sep 2023 15:11

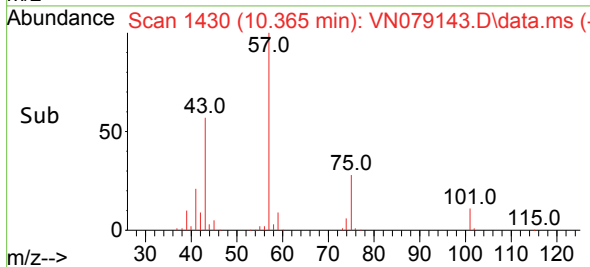
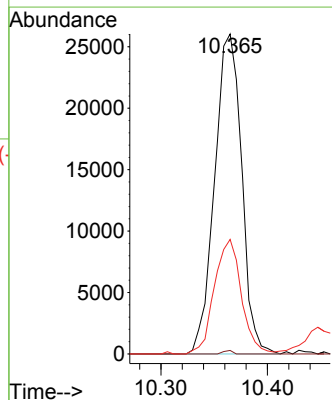
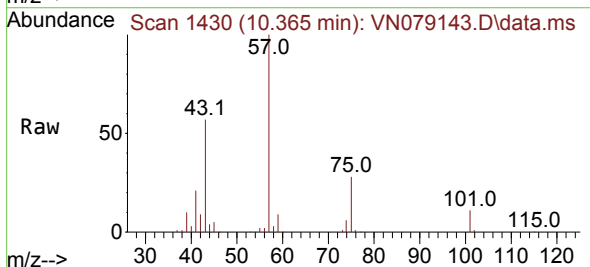
Instrument :
 MSVOA_N
 ClientSampleId :
 PB155301ZHE#05

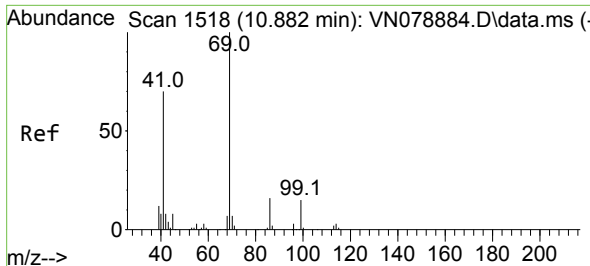
Tgt Ion: 75 Resp: 1199
 Ion Ratio Lower Upper
 75 100
 77 27.2 25.4 38.0



#54
 cis-1,3-Dichloropropene
 Concen: 8.844 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN079143.D
 Acq: 02 Sep 2023 15:11

Tgt Ion: 75 Resp: 45848
 Ion Ratio Lower Upper
 75 100
 77 1.1 26.1 39.1#
 39 35.8 31.6 47.4

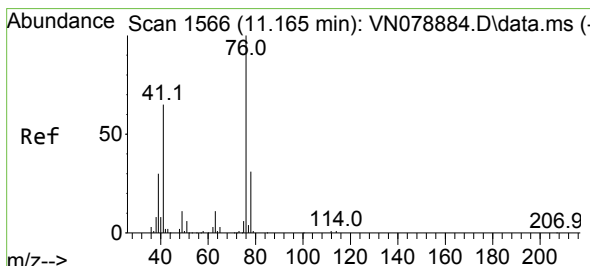
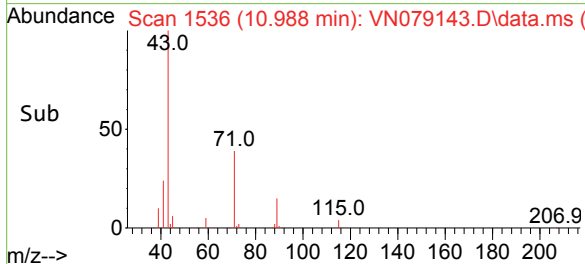
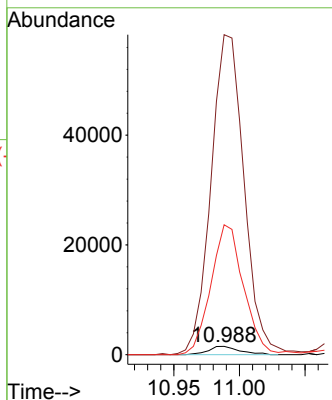
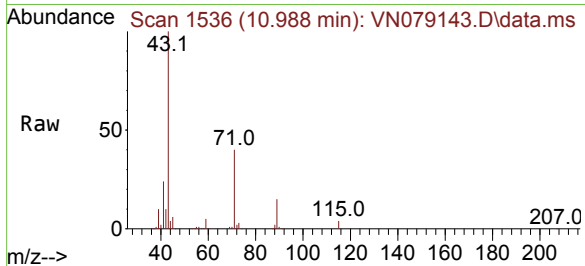




#56
Ethyl methacrylate
Concen: 0.531 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.111 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

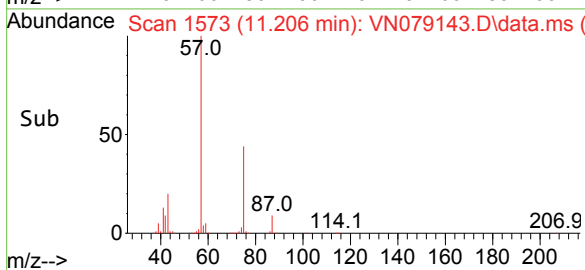
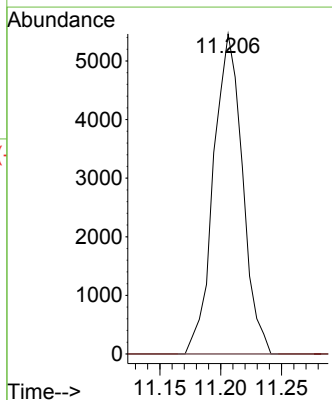
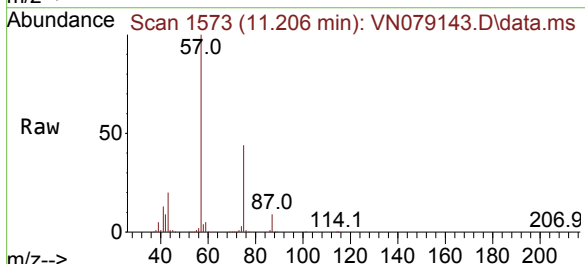
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

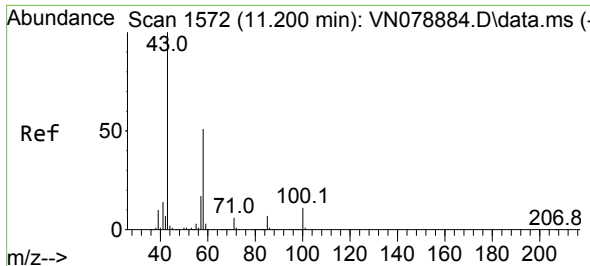
Tgt Ion: 69 Resp: 2496
Ion Ratio Lower Upper
69 100
41 4106.5 39.6 59.4#
39 1653.5 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.670 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Tgt Ion: 76 Resp: 9049
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

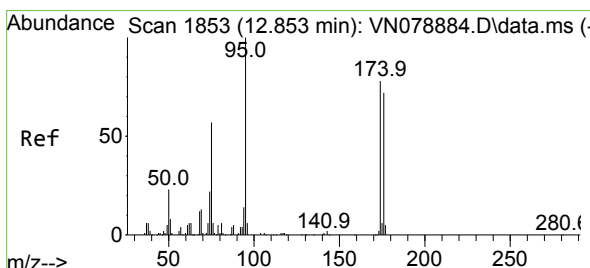
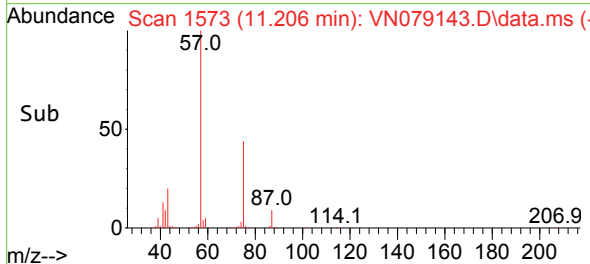
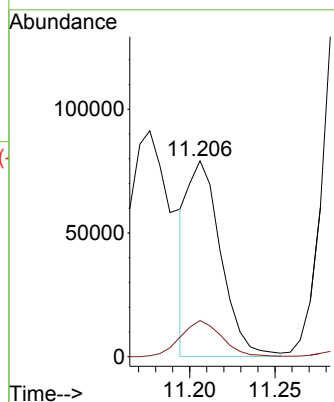
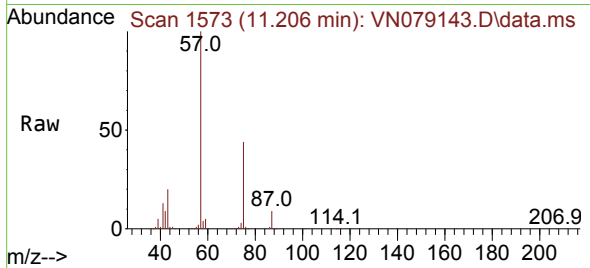




#59
2-Hexanone
Concen: 30.244 ug/l
RT: 11.206 min Scan# 11206
Delta R.T. 0.006 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

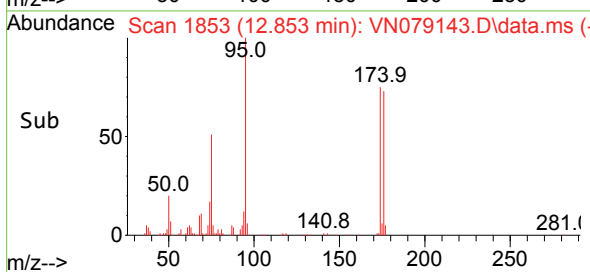
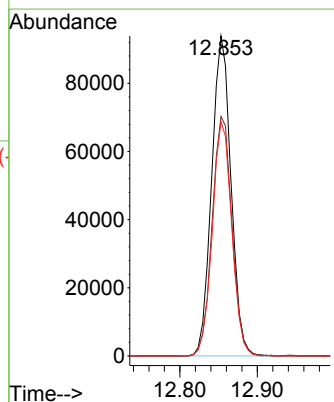
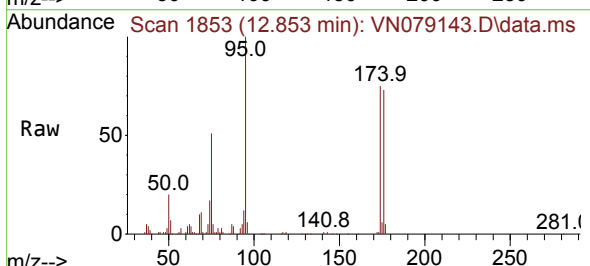
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

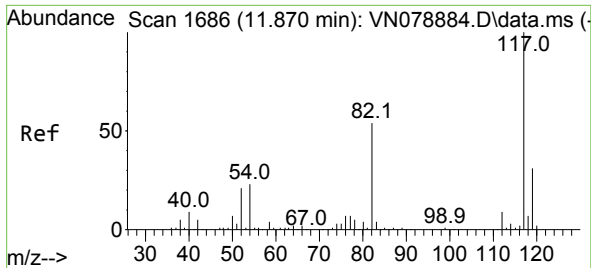
Tgt Ion: 43 Resp: 107001
Ion Ratio Lower Upper
43 100
58 23.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 48.329 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Tgt Ion: 95 Resp: 162385
Ion Ratio Lower Upper
95 100
174 77.2 0.0 143.8
176 73.5 0.0 135.8

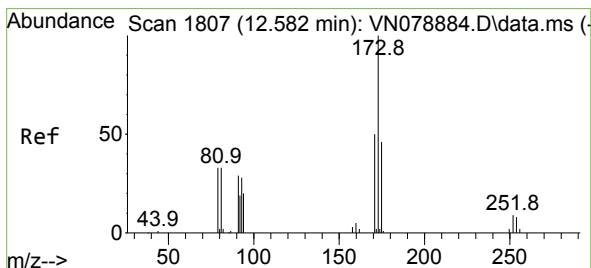
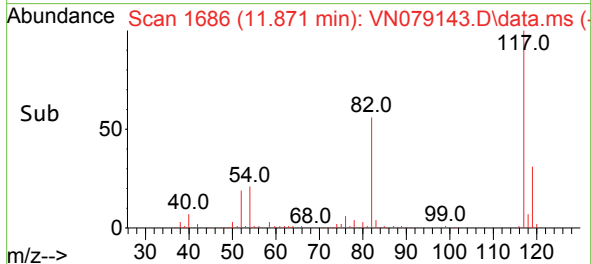
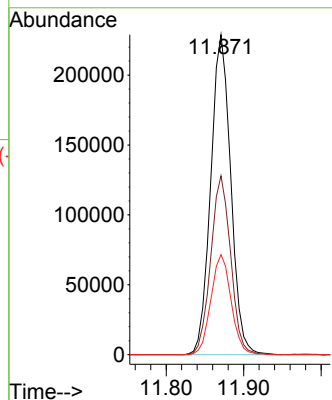
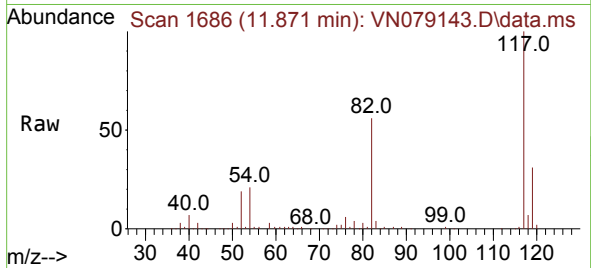




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

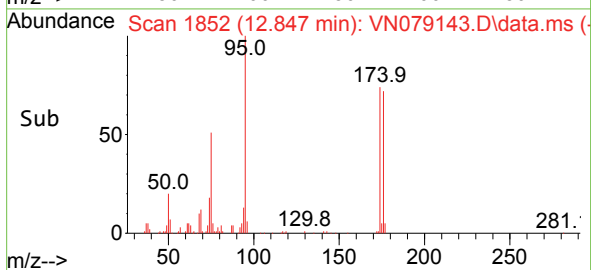
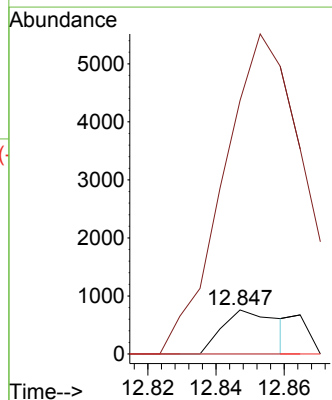
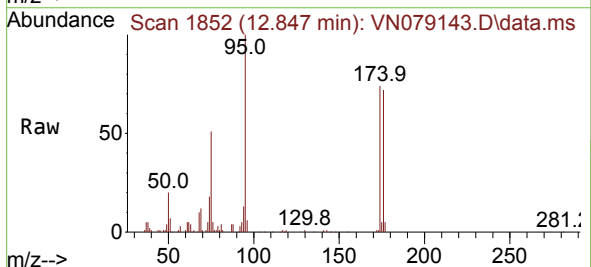
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

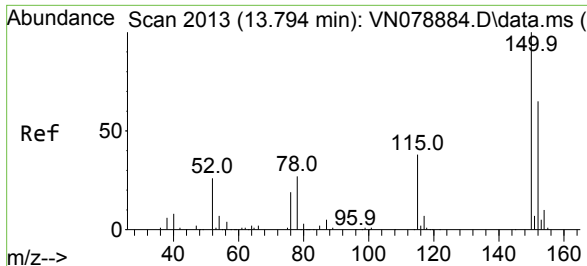
Tgt Ion:117 Resp: 411521
Ion Ratio Lower Upper
117 100
82 55.9 44.0 66.0
119 31.3 25.6 38.4



#71
Bromoform
Concen: 0.358 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Tgt Ion:173 Resp: 861
Ion Ratio Lower Upper
173 100
175 798.5 24.3 73.0#
254 0.0 0.0 0.0

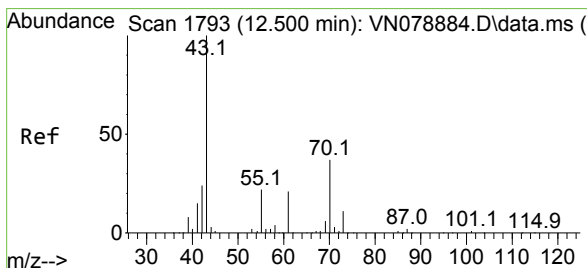
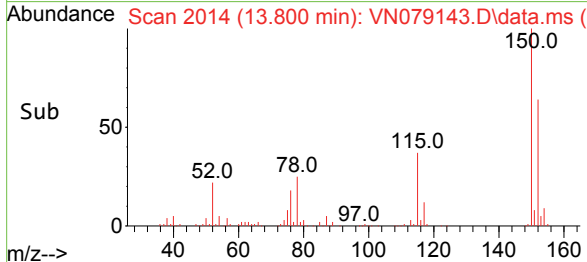
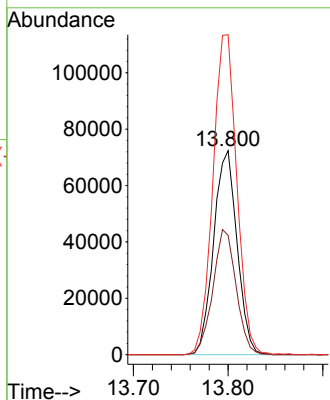
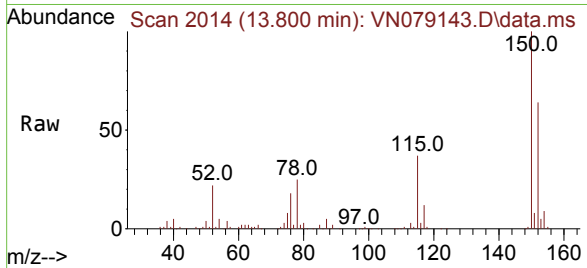




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

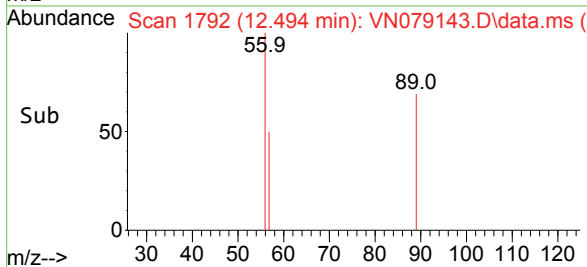
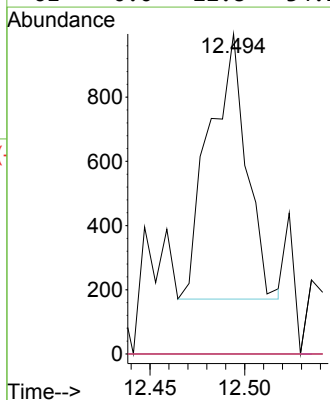
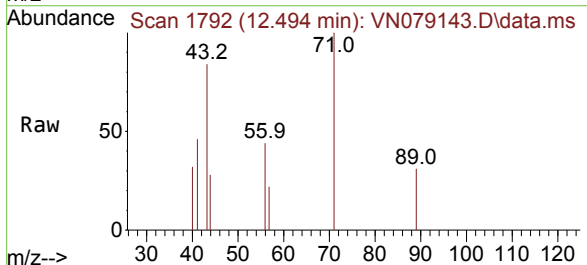
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#05

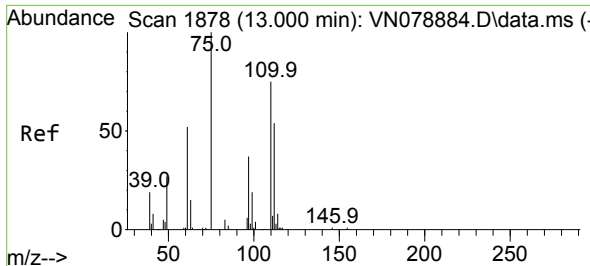
Tgt Ion:152 Resp: 124376
Ion Ratio Lower Upper
152 100
115 60.7 32.3 96.8
150 160.2 0.0 355.8



#74
N-ethyl acetate
Concen: 0.216 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.006 min
Lab File: VN079143.D
Acq: 02 Sep 2023 15:11

Tgt Ion: 43 Resp: 1132
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 0.0 21.4 32.0#
61 0.0 22.8 34.2#

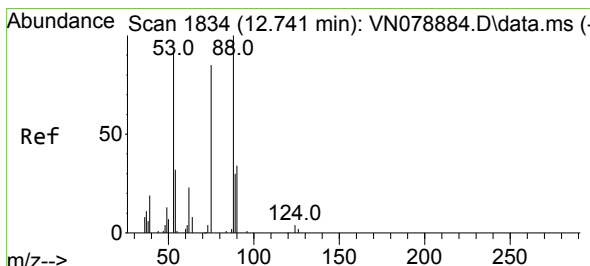
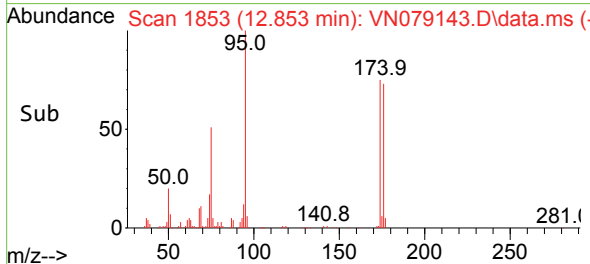
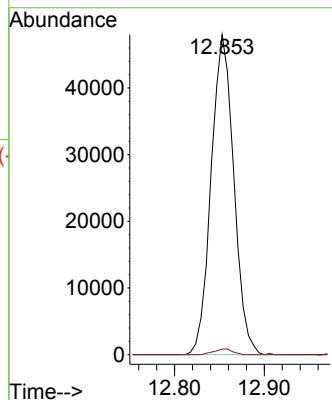
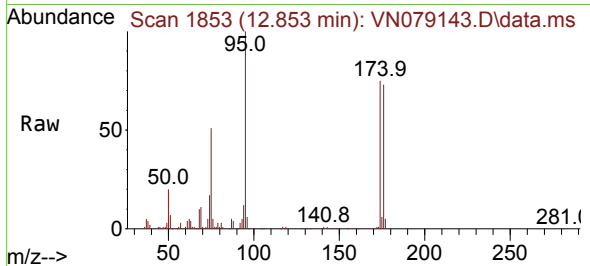




#76
 1,2,3-Trichloropropane
 Concen: 28.081 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN079143.D
 Acq: 02 Sep 2023 15:11

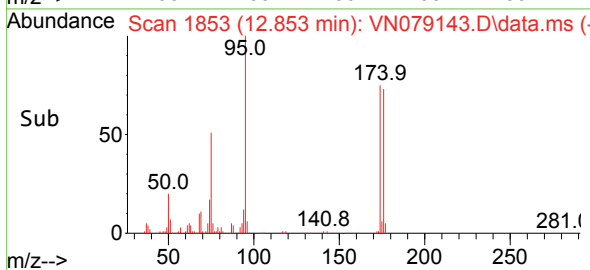
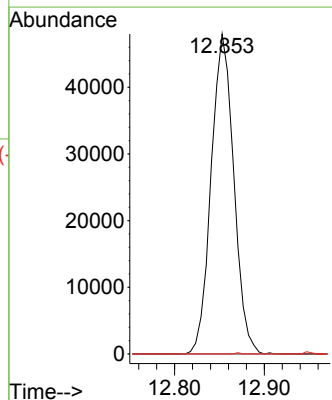
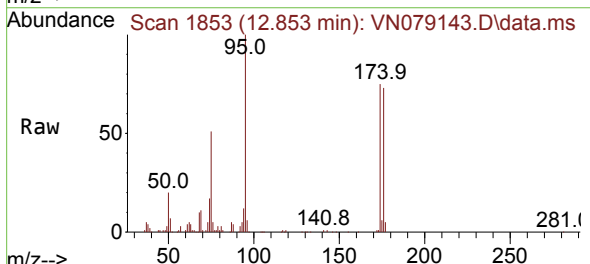
Instrument :
 MSVOA_N
 ClientSampleId :
 PB155301ZHE#05

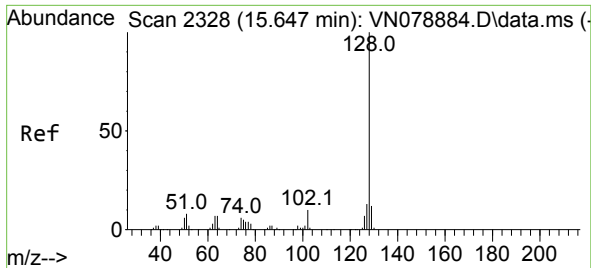
Tgt Ion: 75 Resp: 84154
 Ion Ratio Lower Upper
 75 100
 77 1.5 84.5 253.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.734 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN079143.D
 Acq: 02 Sep 2023 15:11

Tgt Ion: 75 Resp: 84154
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.1 38.8 58.2#





#95

Naphthalene

Concen: 2.598 ug/l

RT: 15.653 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN079143.D

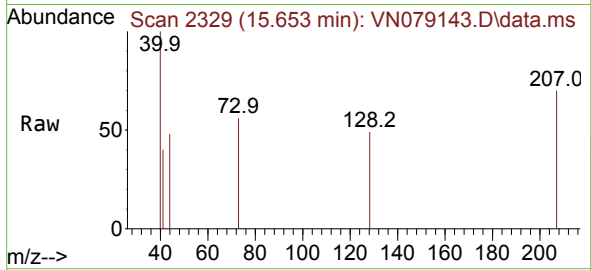
Acq: 02 Sep 2023 15:11

Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#05



Tgt Ion:128 Resp: 143

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#

