

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090223\
 Data File : VN079142.D
 Acq On : 02 Sep 2023 14:47
 Operator : JC\MD
 Sample : PB155301ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB155301ZHE#04

Quant Time: Sep 04 01:04:04 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)

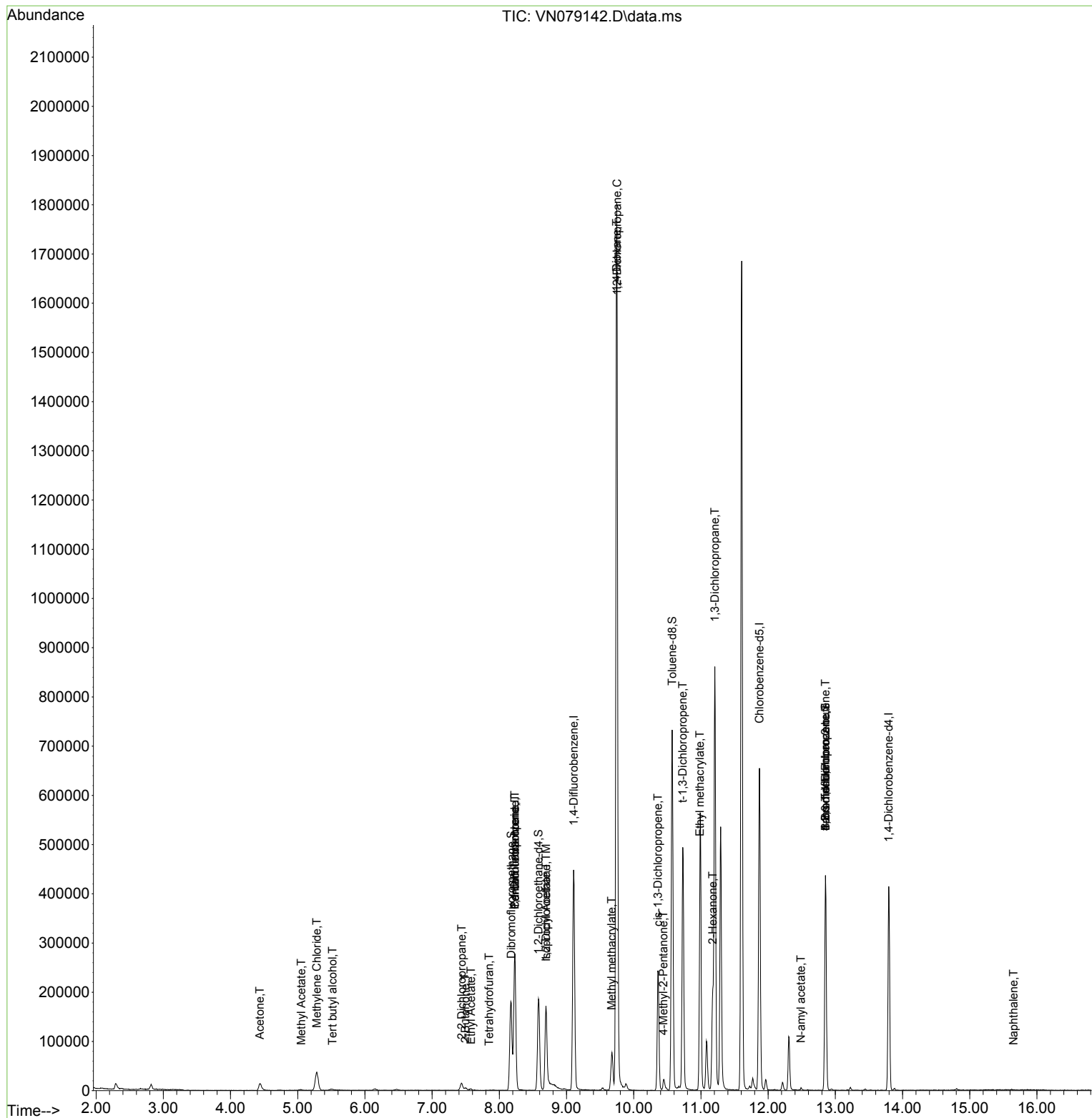
Internal Standards						
1) Pentafluorobenzene	8.230	168	204590	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	398355	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	387909	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	114183	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	154857	48.642	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.280%		
35) Dibromofluoromethane	8.177	113	135640	50.583	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.160%		
50) Toluene-d8	10.571	98	514089	51.632	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.260%		
62) 4-Bromofluorobenzene	12.853	95	153456	47.153	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.300%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.518	59	954	1.786	ug/l #	72
16) Acetone	4.436	43	28367	21.595	ug/l #	85
18) Methyl Acetate	5.053	43	2510	0.452	ug/l #	72
20) Methylene Chloride	5.283	84	29752	10.628	ug/l	92
25) 2-Butanone	7.494	43	8214	3.900	ug/l #	76
26) 2,2-Dichloropropane	7.442	77	992	0.243	ug/l #	53
29) Tetrahydrofuran	7.847	42	293	0.210	ug/l #	36
31) Cyclohexane	8.230	56	4273	Below Cal	#	1
36) 1,1-Dichloropropene	8.230	75	17082	4.235	ug/l #	46
37) Ethyl Acetate	7.577	43	4669	1.035	ug/l #	83
38) Carbon Tetrachloride	8.230	117	19936	4.933	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	1218	0.273	ug/l #	73
43) Isopropyl Acetate	8.694	43	196693	24.658	ug/l #	81
45) 1,2-Dichloropropane	9.753	63	2168	0.683	ug/l #	45
48) Methyl methacrylate	9.671	41	4991	1.381	ug/l #	27
49) 1,4-Dioxane	9.747	88	152	2.469	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	19365	4.093	ug/l #	81
53) t-1,3-Dichloropropene	10.730	75	1132	0.246	ug/l #	72
54) cis-1,3-Dichloropropene	10.359	75	44869	8.936	ug/l #	70
56) Ethyl methacrylate	10.982	69	2660	0.585	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8537	1.626	ug/l #	42
59) 2-Hexanone	11.177	43	171497	50.047	ug/l #	19
71) Bromoform	12.853	173	935	0.412	ug/l #	1
74) N-amyl acetate	12.488	43	1889	0.393	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	79761	28.991	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	79761	74.059	ug/l #	15
95) Naphthalene	15.653	128	502	2.665	ug/l #	70

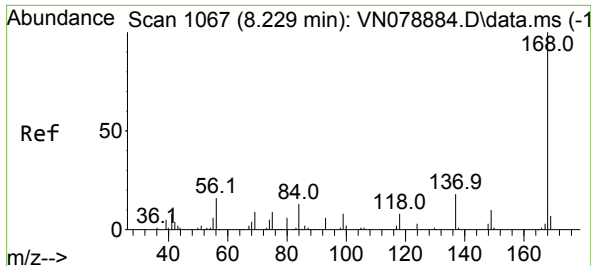
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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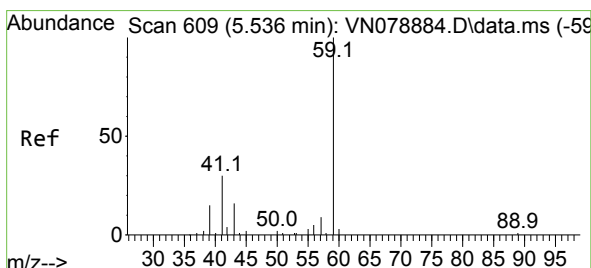
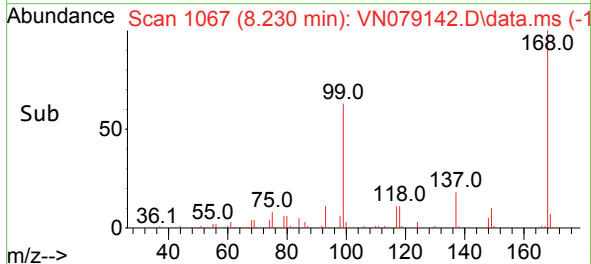
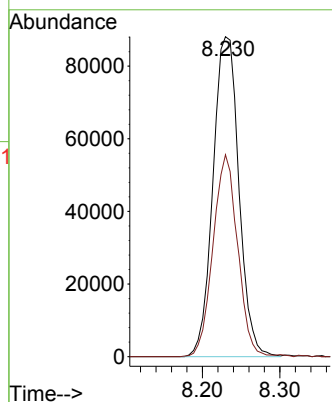
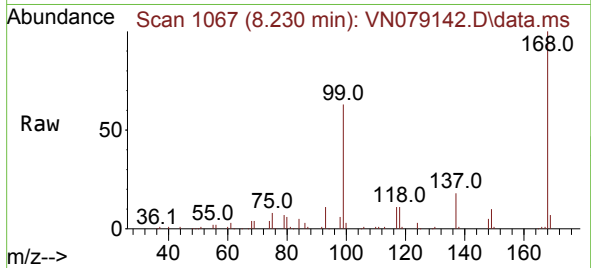




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

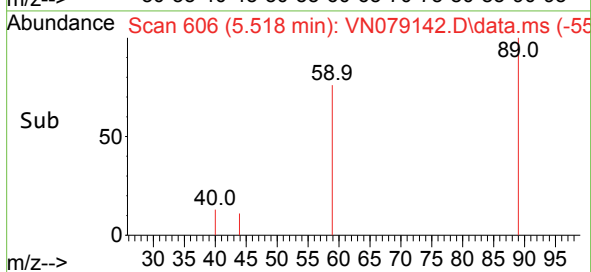
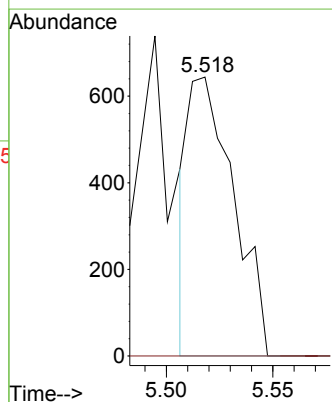
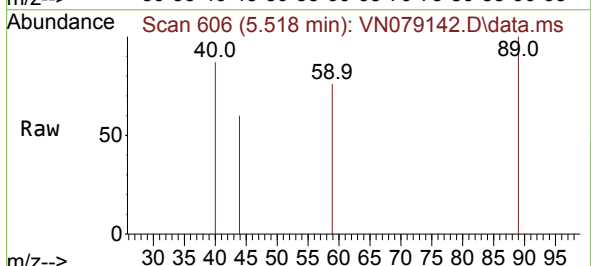
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

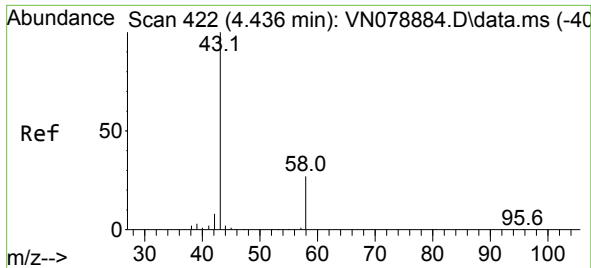
Tgt Ion:168 Resp: 204590
Ion Ratio Lower Upper
168 100
99 63.1 53.0 79.6



#11
Tert butyl alcohol
Concen: 1.786 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.024 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion: 59 Resp: 954
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 21.595 ug/l

RT: 4.436 min Scan# 431

Delta R.T. -0.006 min

Lab File: VN079142.D

Acq: 02 Sep 2023 14:47

Instrument :

MSVOA_N

ClientSampleId :

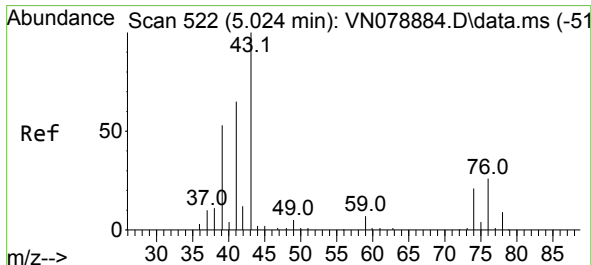
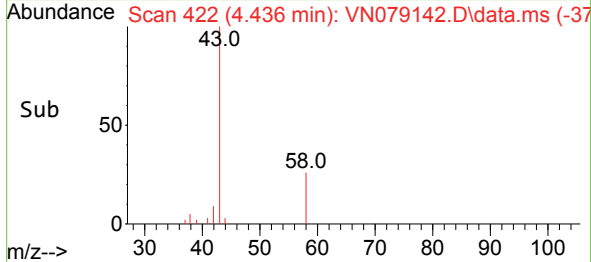
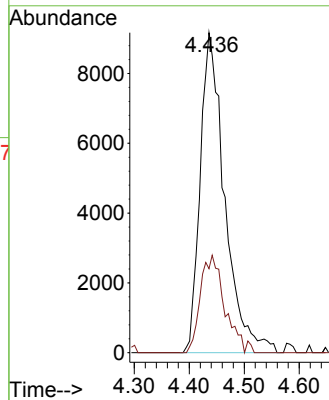
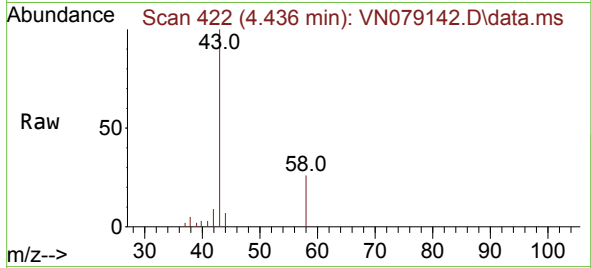
PB155301ZHE#04

Tgt Ion: 43 Resp: 28367

Ion Ratio Lower Upper

43 100

58 26.3 28.0 42.0#



#18

Methyl Acetate

Concen: 0.452 ug/l

RT: 5.053 min Scan# 527

Delta R.T. 0.011 min

Lab File: VN079142.D

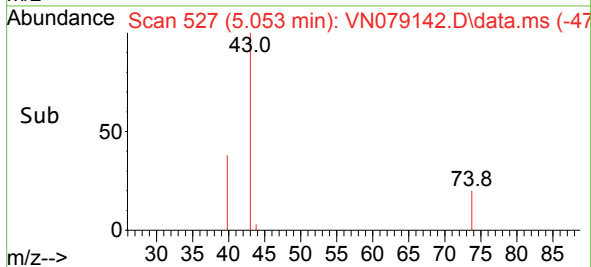
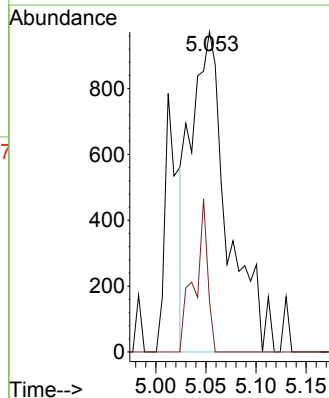
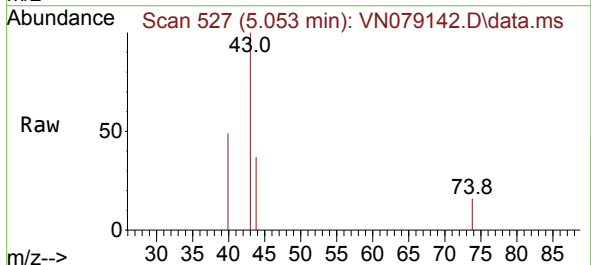
Acq: 02 Sep 2023 14:47

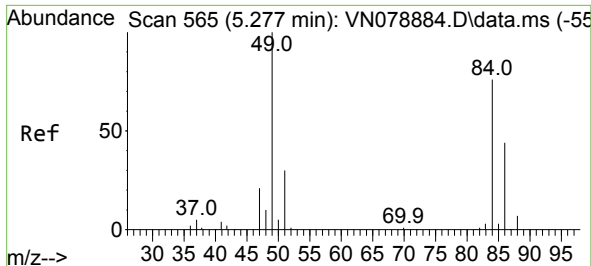
Tgt Ion: 43 Resp: 2510

Ion Ratio Lower Upper

43 100

74 16.8 26.2 39.4#

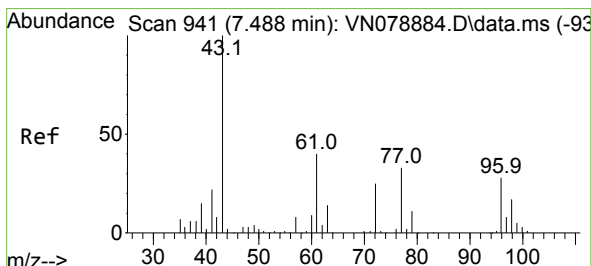
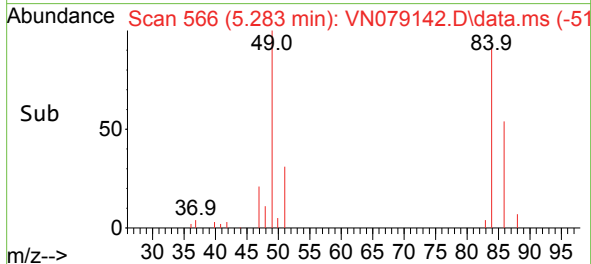
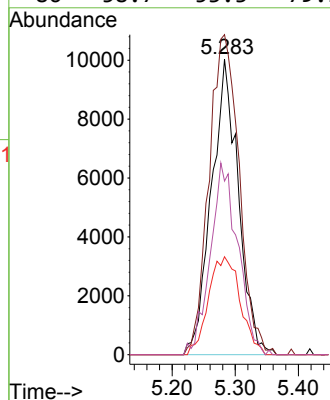
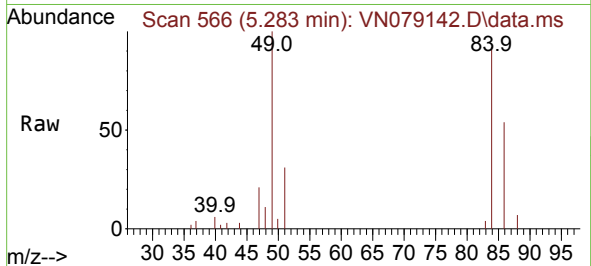




#20
Methylene Chloride
Concen: 10.628 ug/l
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

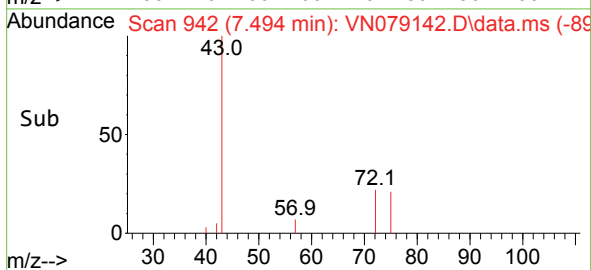
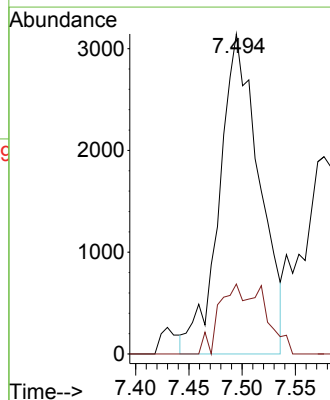
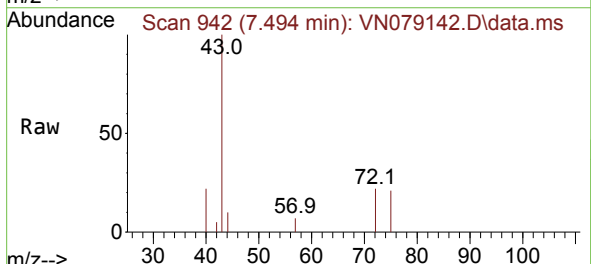
Instrument :
MSVOA_N
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PB155301ZHE#04

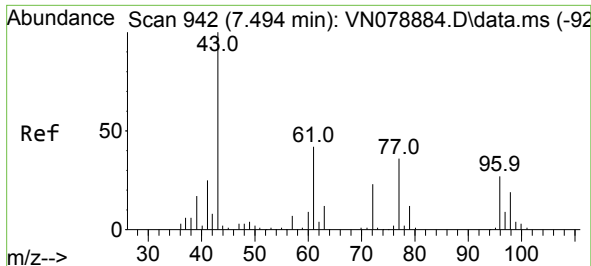
Tgt Ion:	84	Resp:	29752
Ion	Ratio	Lower	Upper
84	100		
49	108.3	79.7	119.5
51	33.2	25.2	37.8
86	58.7	53.3	79.9



#25
2-Butanone
Concen: 3.900 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion:	43	Resp:	8214
Ion	Ratio	Lower	Upper
43	100		
72	23.2	30.2	45.2#

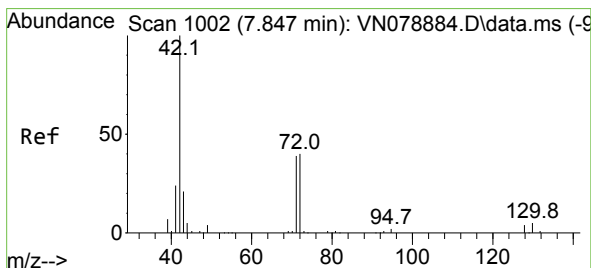
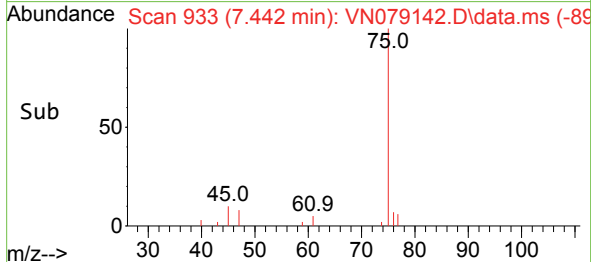
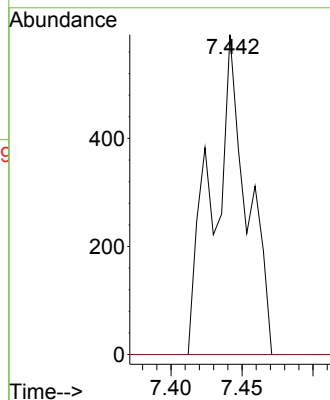
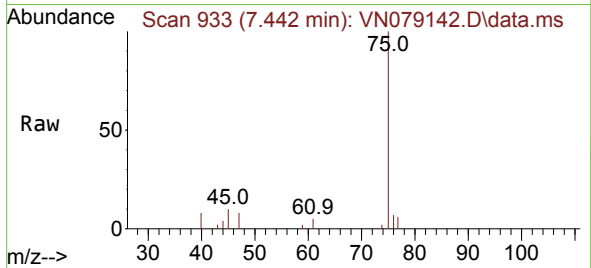




#26
2,2-Dichloropropane
Concen: 0.243 ug/l
RT: 7.442 min Scan# 91
Delta R.T. -0.058 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

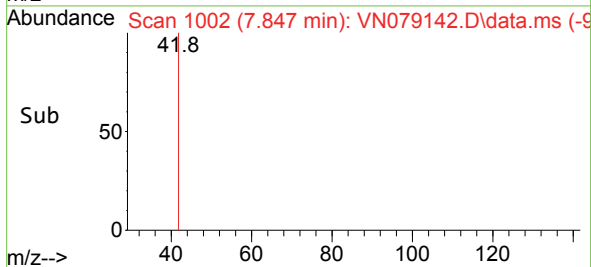
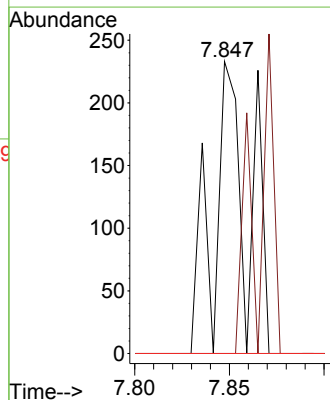
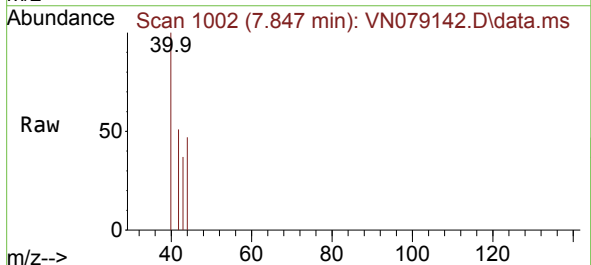
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

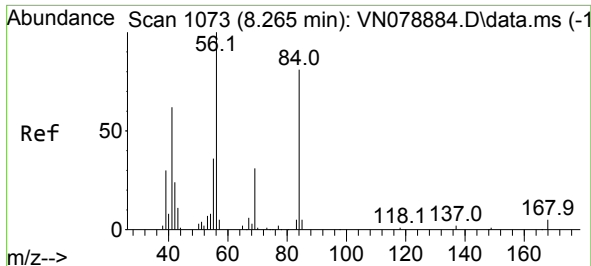
Tgt Ion: 77 Resp: 992
Ion Ratio Lower Upper
77 100
97 0.0 11.2 33.6#



#29
Tetrahydrofuran
Concen: 0.210 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion: 42 Resp: 293
Ion Ratio Lower Upper
42 100
72 23.2 49.8 74.6#
71 0.0 47.4 71.2#

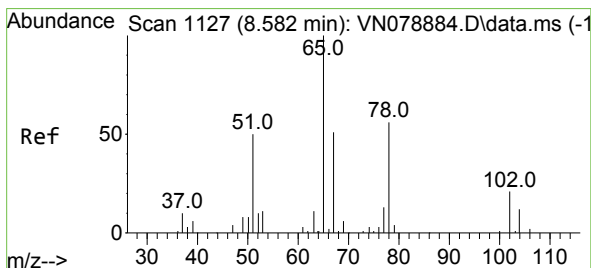
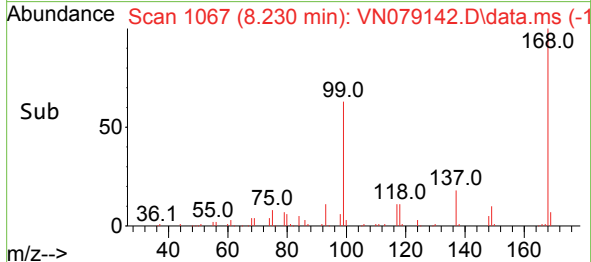
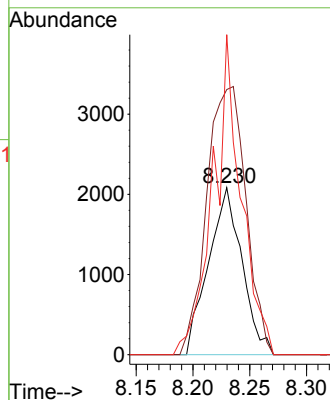
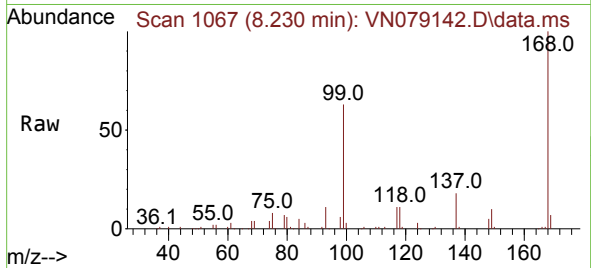




#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

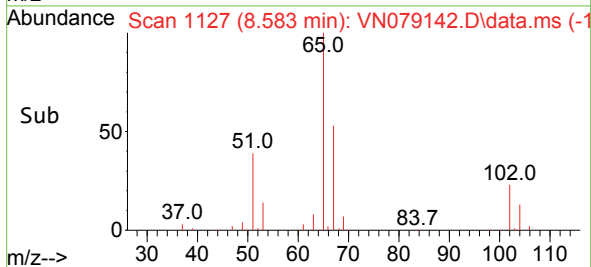
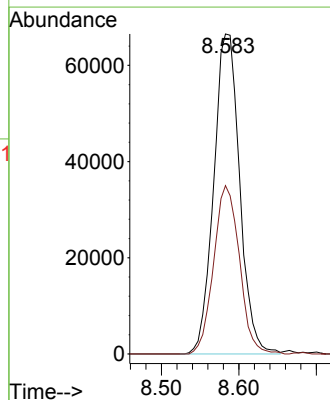
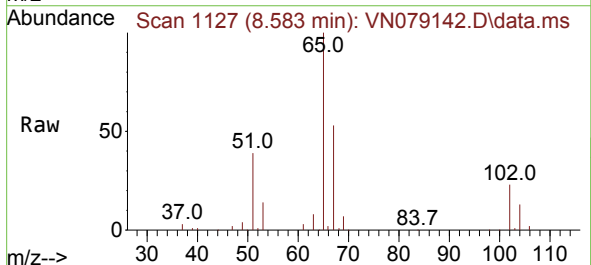
Instrument :
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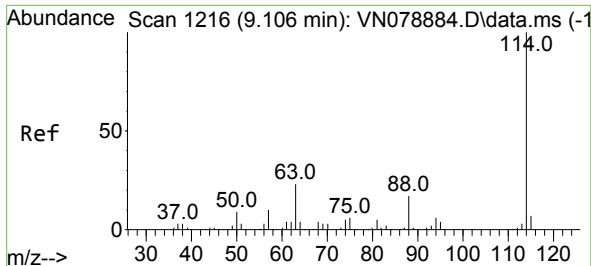
Tgt Ion: 56 Resp: 4273
Ion Ratio Lower Upper
56 100
69 158.8 26.8 40.2#
84 191.6 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.642 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion: 65 Resp: 154857
Ion Ratio Lower Upper
65 100
67 52.3 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: VN079142.D

Acq: 02 Sep 2023 14:47

Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#04

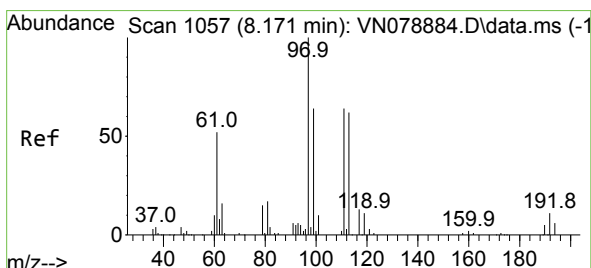
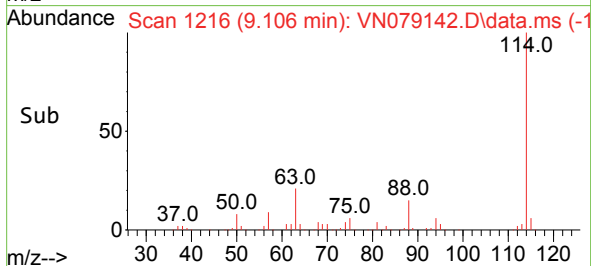
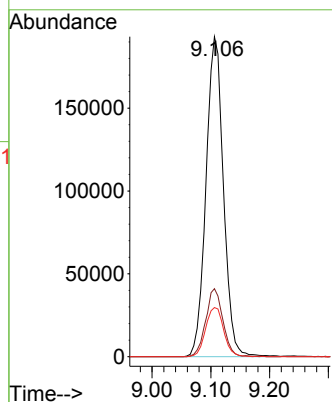
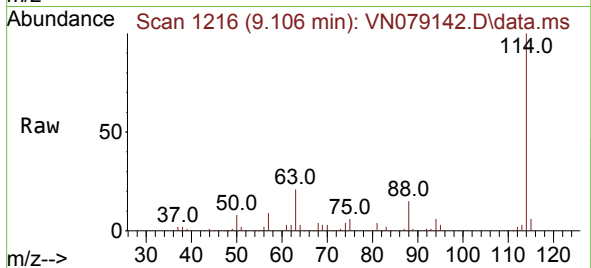
Tgt Ion:114 Resp: 398355

Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.583 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN079142.D

Acq: 02 Sep 2023 14:47

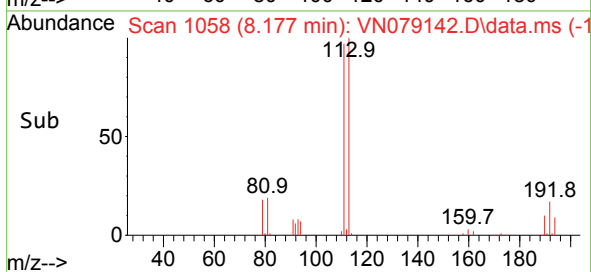
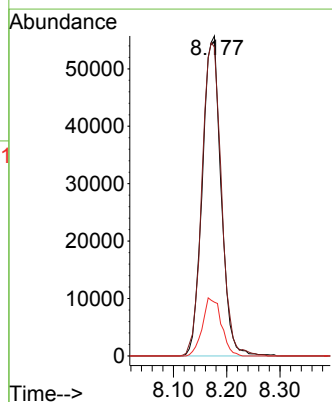
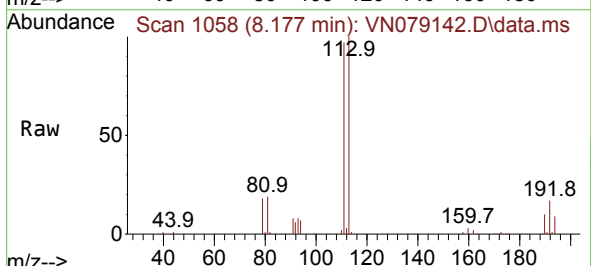
Tgt Ion:113 Resp: 135640

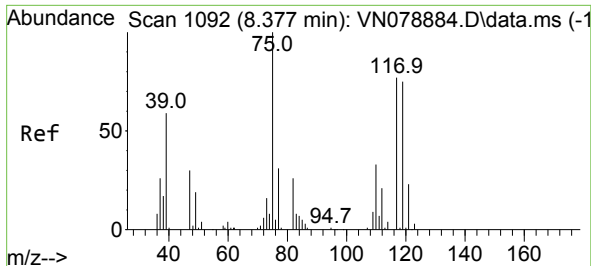
Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

192 18.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.235 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079142.D

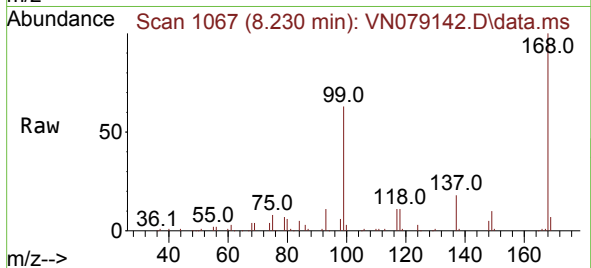
Acq: 02 Sep 2023 14:47

Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#04



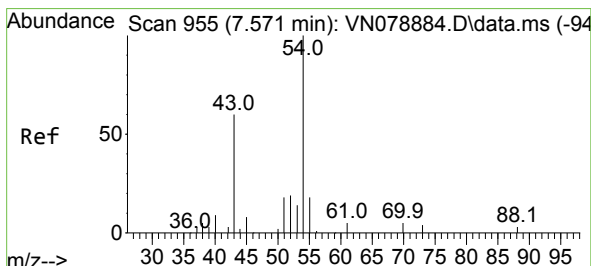
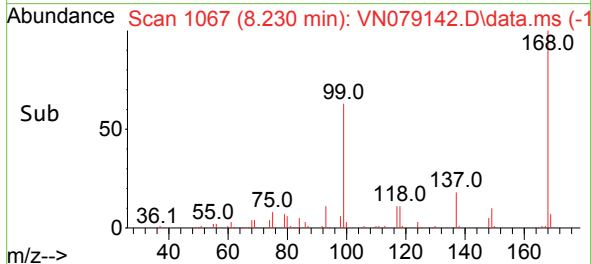
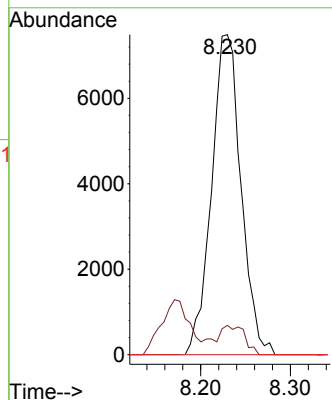
Tgt Ion: 75 Resp: 17082

Ion Ratio Lower Upper

75 100

110 7.2 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.035 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN079142.D

Acq: 02 Sep 2023 14:47

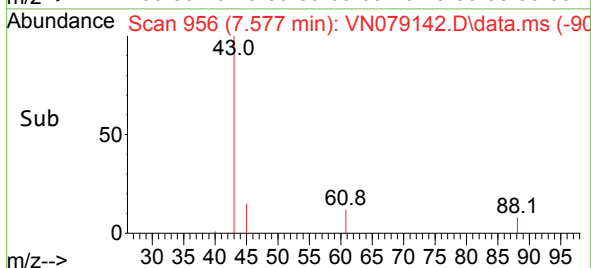
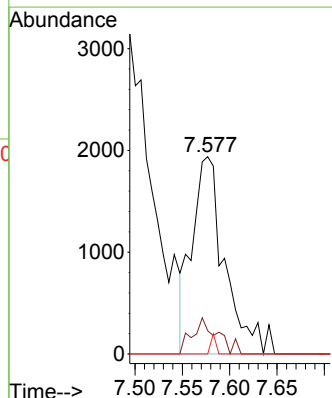
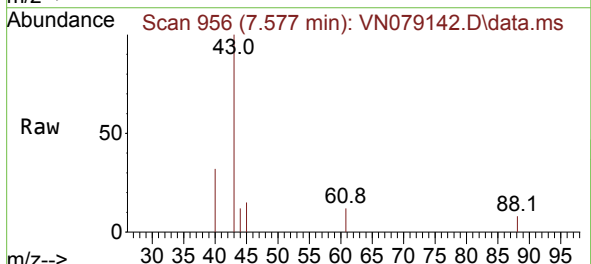
Tgt Ion: 43 Resp: 4669

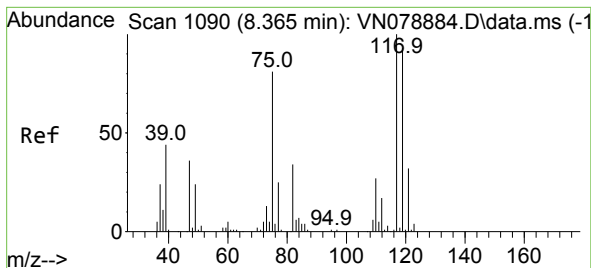
Ion Ratio Lower Upper

43 100

61 14.2 13.2 19.8

70 1.5 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.933 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VN079142.D

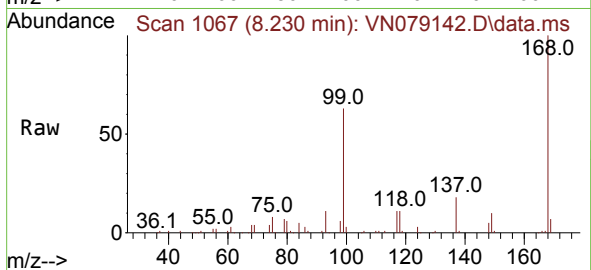
Acq: 02 Sep 2023 14:47

Instrument :

MSVOA_N

ClientSampleId :

PB155301ZHE#04



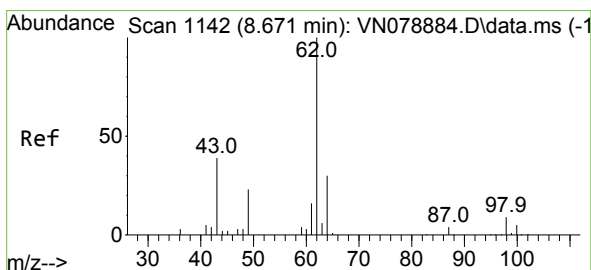
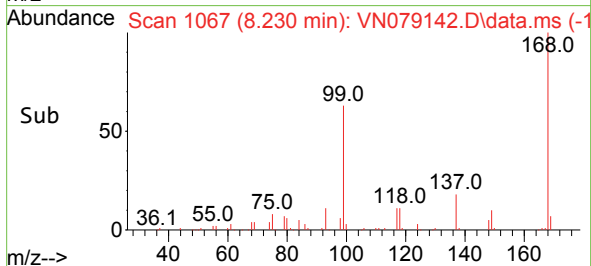
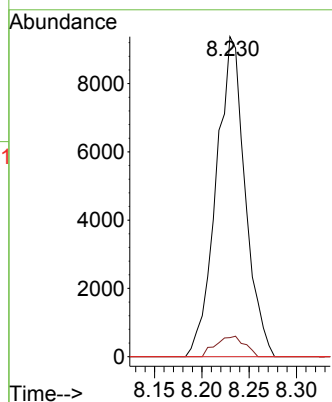
Tgt Ion:117 Resp: 19936

Ion Ratio Lower Upper

117 100

119 6.0 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.273 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN079142.D

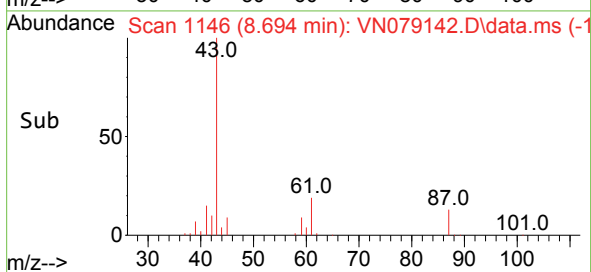
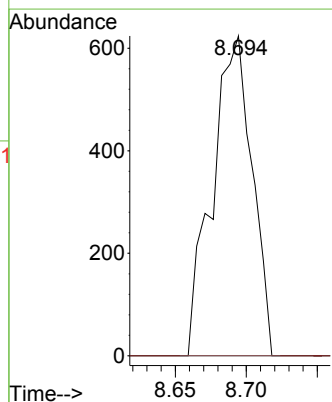
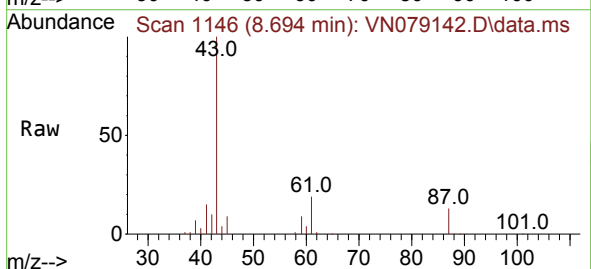
Acq: 02 Sep 2023 14:47

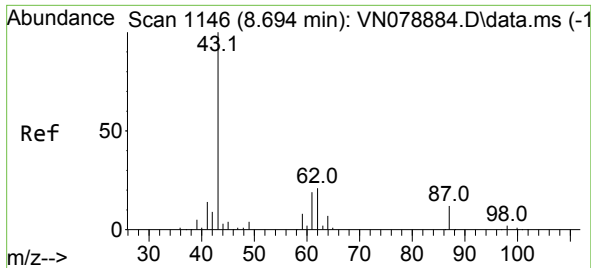
Tgt Ion: 62 Resp: 1218

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

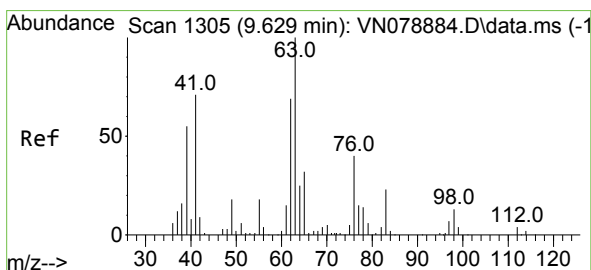
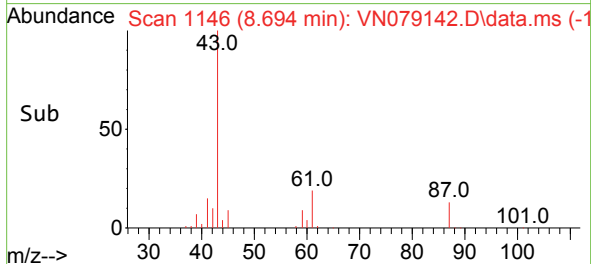
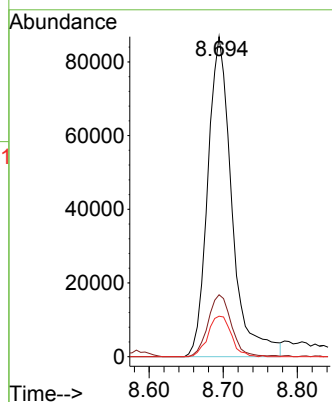
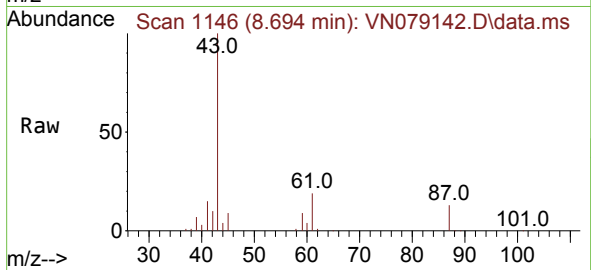




#43
Isopropyl Acetate
Concen: 24.658 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

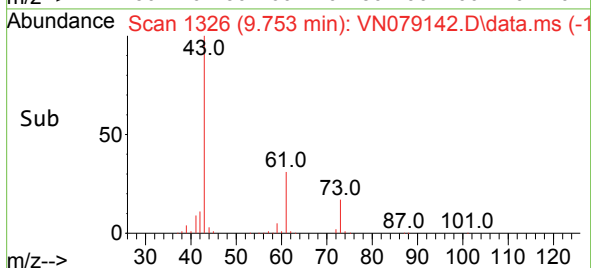
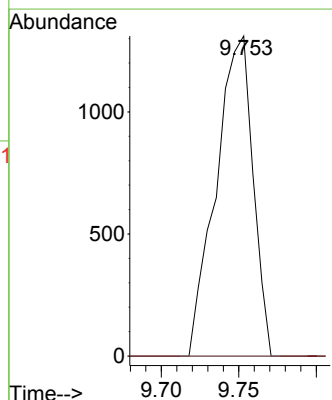
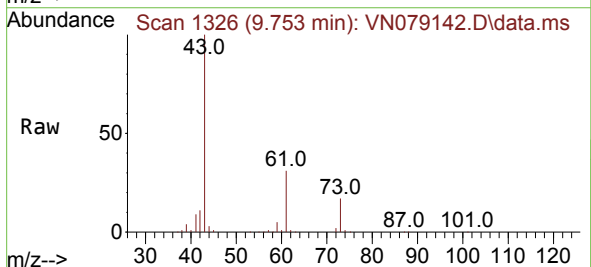
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

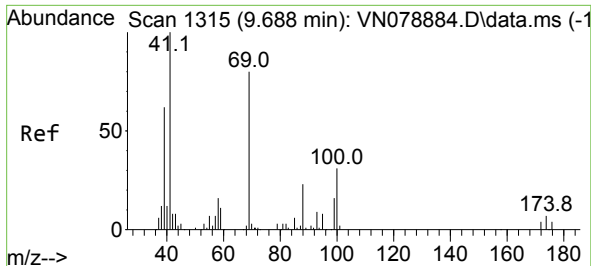
Tgt Ion: 43 Resp: 196693
Ion Ratio Lower Upper
43 100
61 18.6 24.7 37.1#
87 12.2 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.683 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.129 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion: 63 Resp: 2168
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

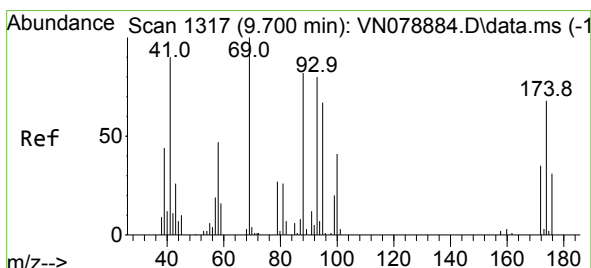
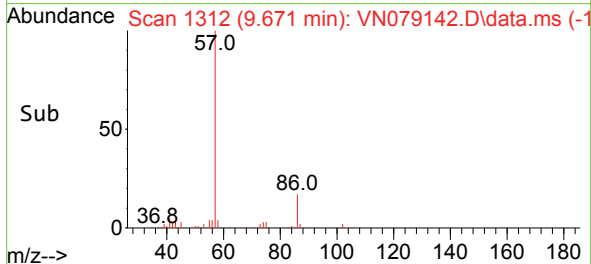
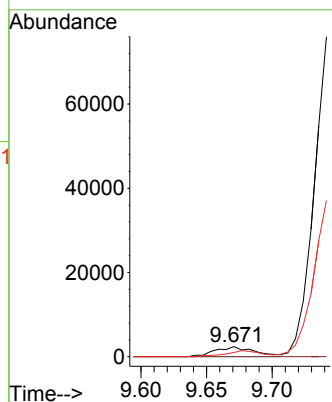
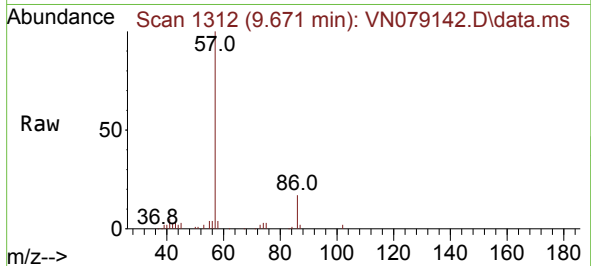




#48
Methyl methacrylate
Concen: 1.381 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

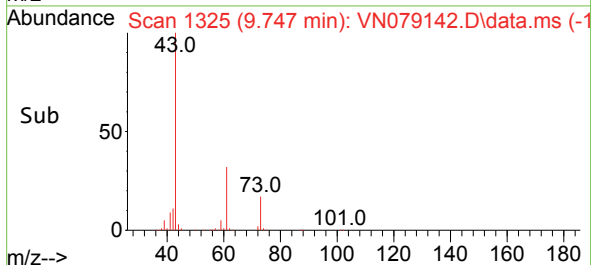
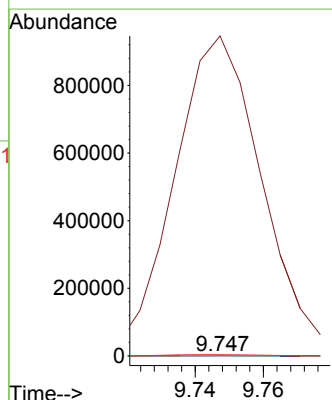
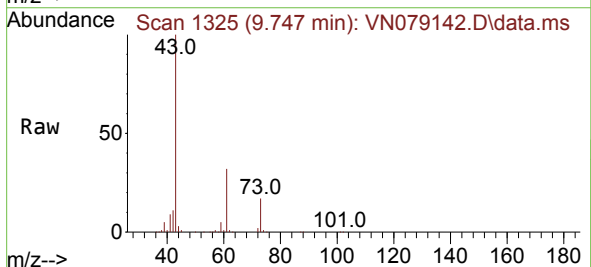
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

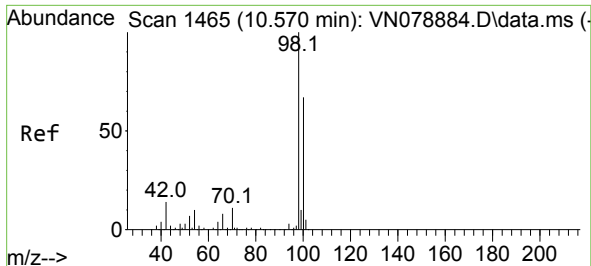
Tgt Ion: 41 Resp: 4991
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 51.6 54.6 81.8#



#49
1,4-Dioxane
Concen: 2.469 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion: 88 Resp: 152
Ion Ratio Lower Upper
88 100
43 1135571.1 17.0 25.6#
58 5256.6 47.0 70.4#

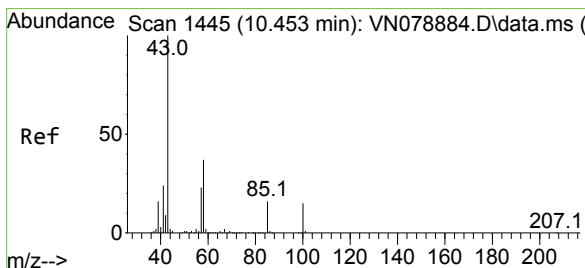
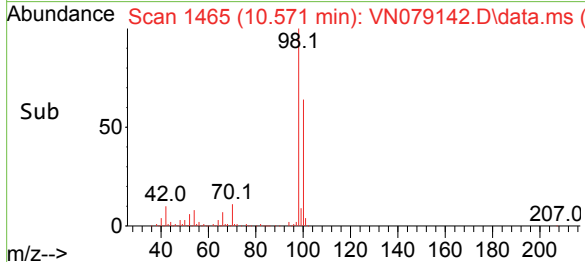
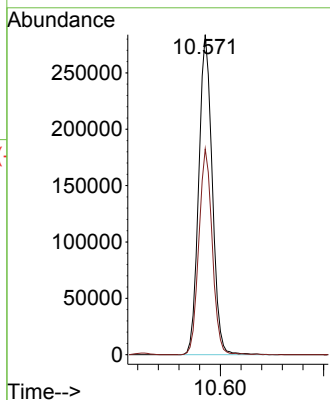
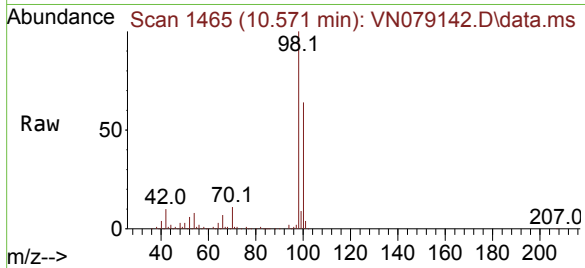




#50
Toluene-d8
Concen: 51.632 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

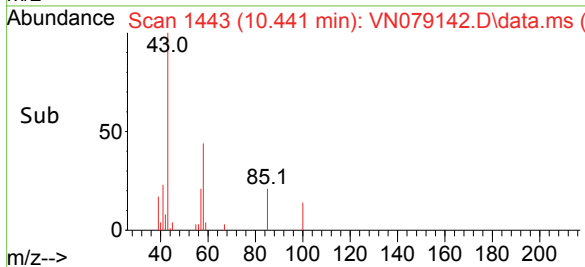
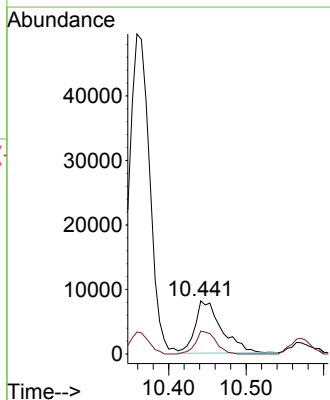
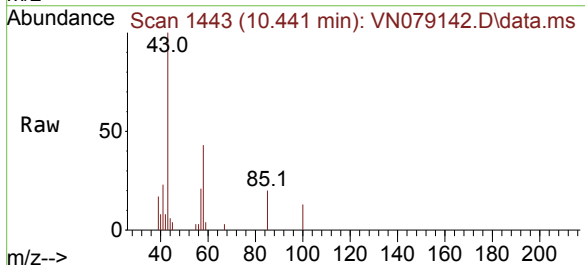
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

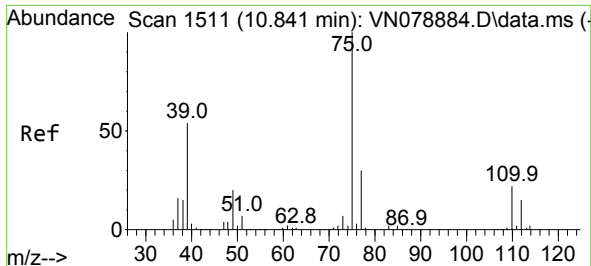
Tgt Ion: 98 Resp: 514089
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.093 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.012 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion: 43 Resp: 19365
Ion Ratio Lower Upper
43 100
58 33.0 36.6 54.8#

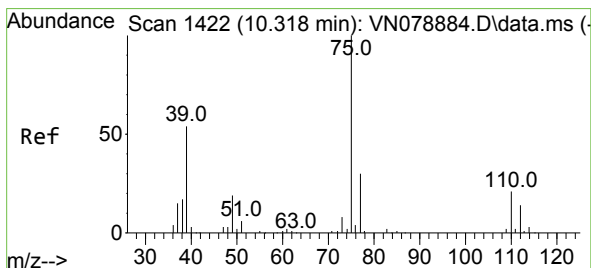
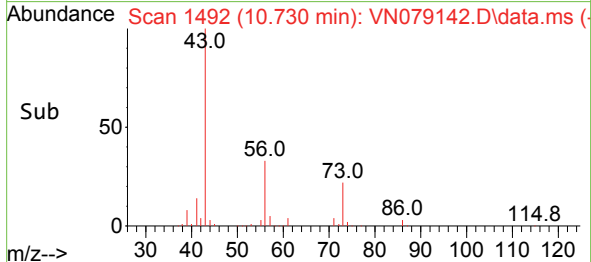
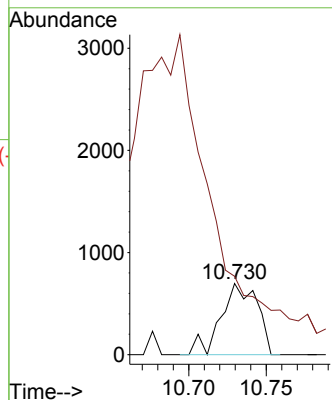
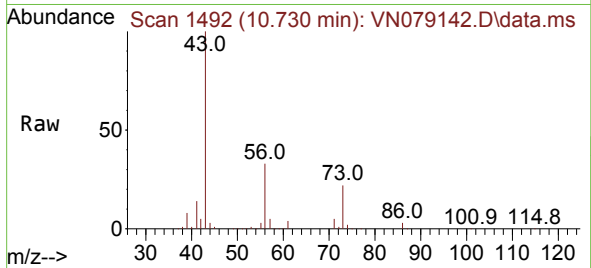




#53
 t-1,3-Dichloropropene
 Concen: 0.246 ug/l
 RT: 10.730 min Scan# 1492
 Delta R.T. -0.111 min
 Lab File: VN079142.D
 Acq: 02 Sep 2023 14:47

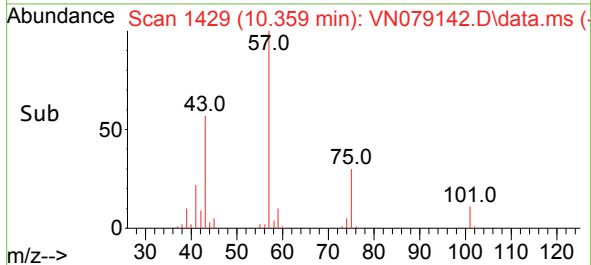
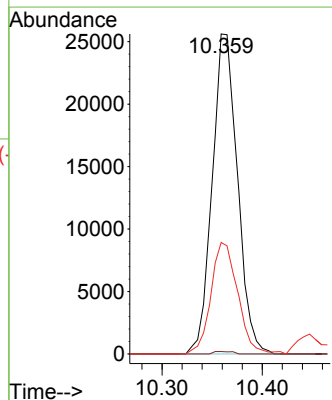
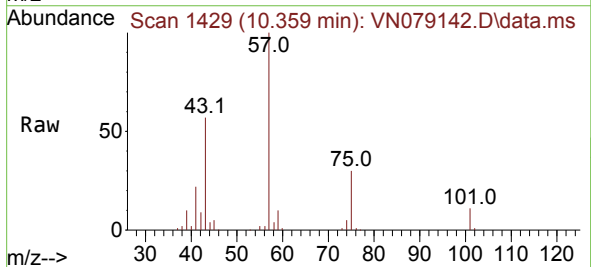
Instrument :
 MSVOA_N
 ClientSampleId :
 PB155301ZHE#04

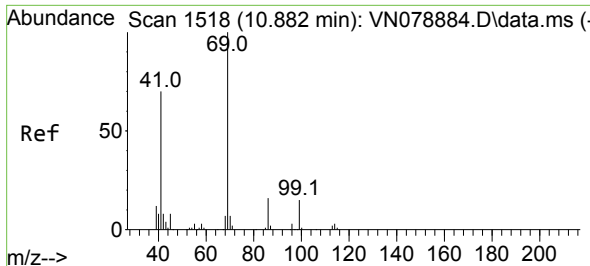
Tgt Ion: 75 Resp: 1132
 Ion Ratio Lower Upper
 75 100
 77 47.3 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 8.936 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN079142.D
 Acq: 02 Sep 2023 14:47

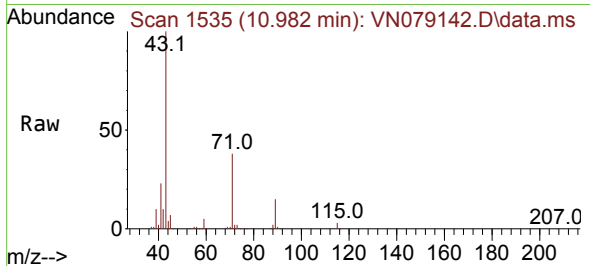
Tgt Ion: 75 Resp: 44869
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 34.1 31.6 47.4



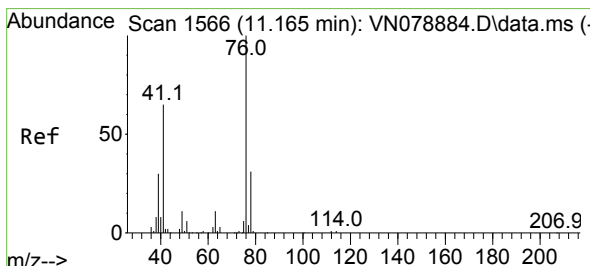
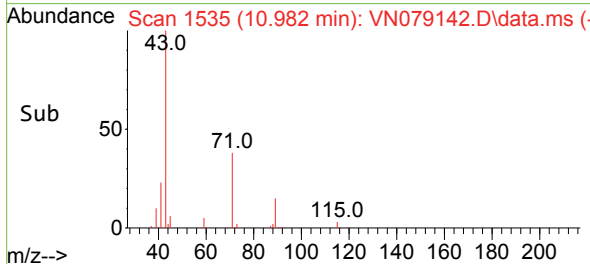
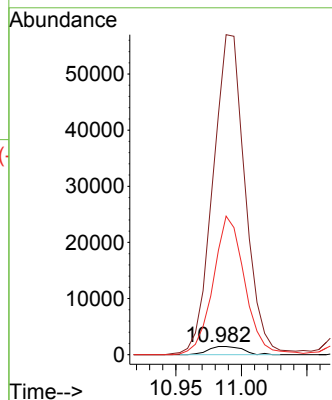


#56
Ethyl methacrylate
Concen: 0.585 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.105 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

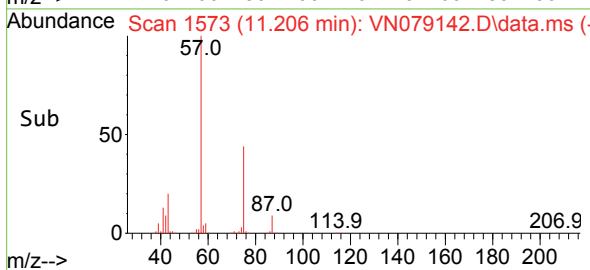
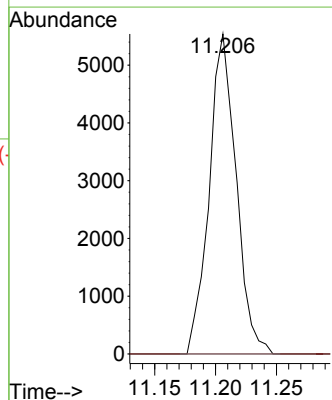
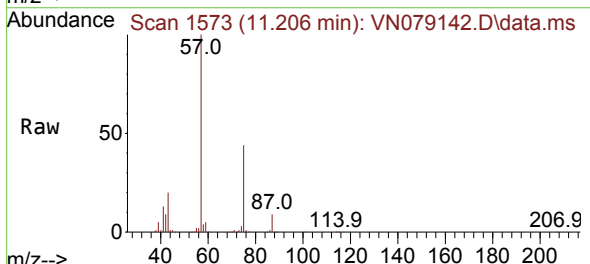


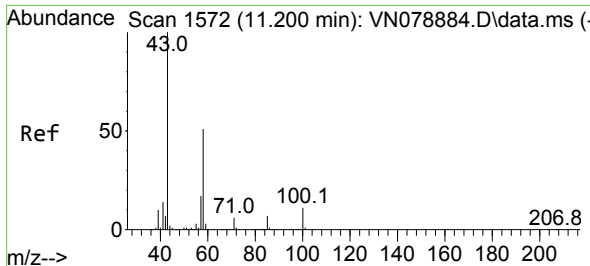
Tgt Ion: 69 Resp: 2660
Ion Ratio Lower Upper
69 100
41 3660.2 39.6 59.4#
39 1558.8 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.626 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion: 76 Resp: 8537
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

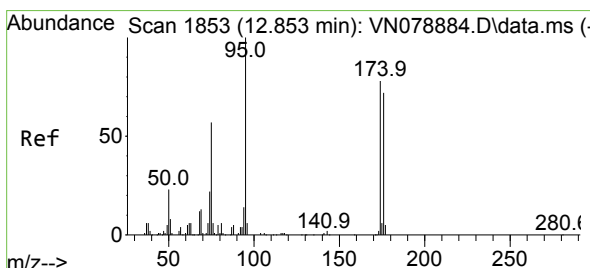
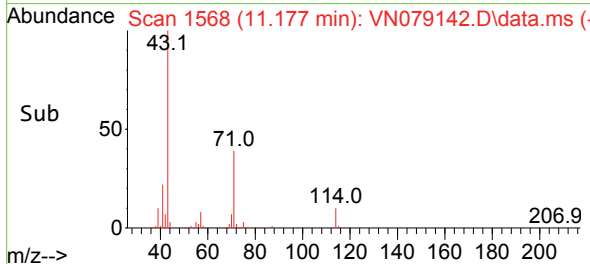
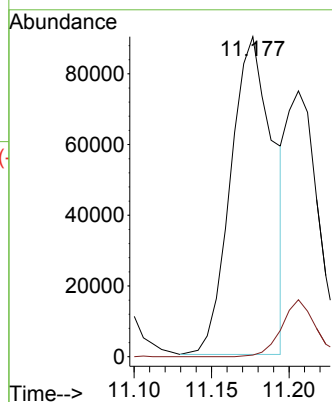
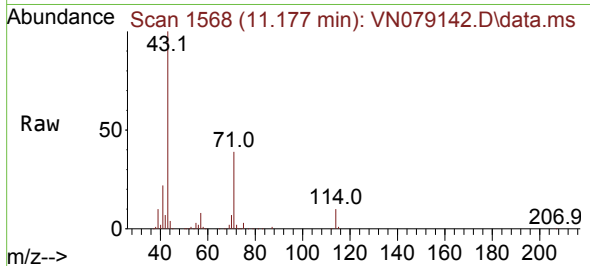




#59
2-Hexanone
Concen: 50.047 ug/l
RT: 11.177 min Scan# 1117
Delta R.T. -0.023 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

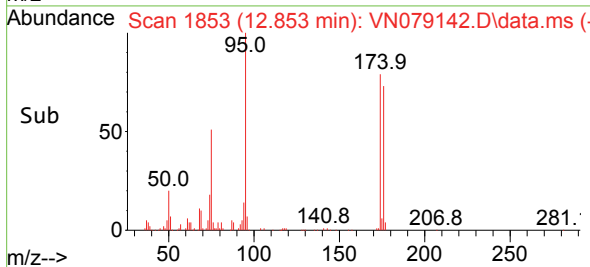
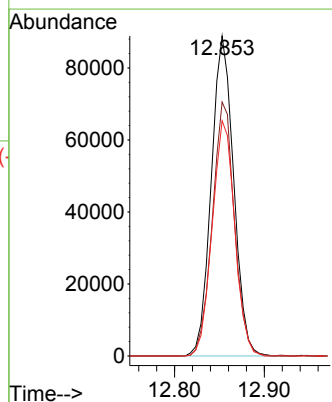
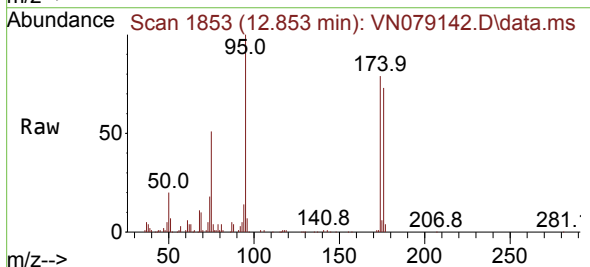
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

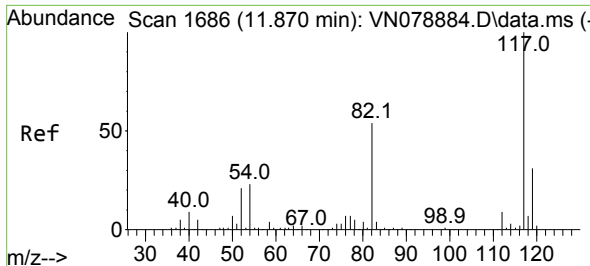
Tgt Ion: 43 Resp: 171497
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.153 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion: 95 Resp: 153456
Ion Ratio Lower Upper
95 100
174 78.5 0.0 143.8
176 74.0 0.0 135.8

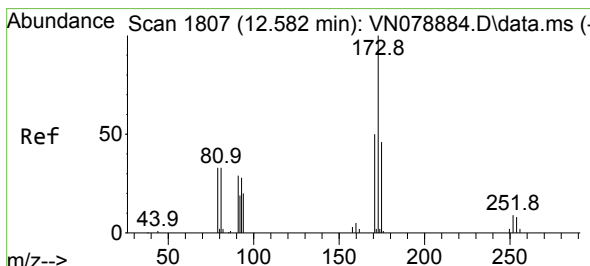
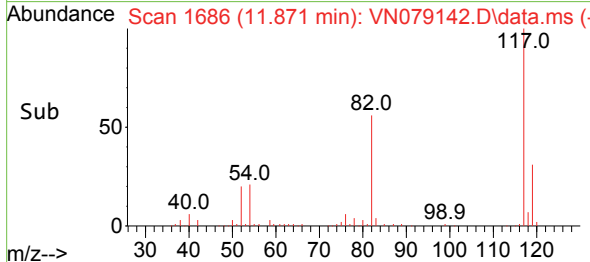
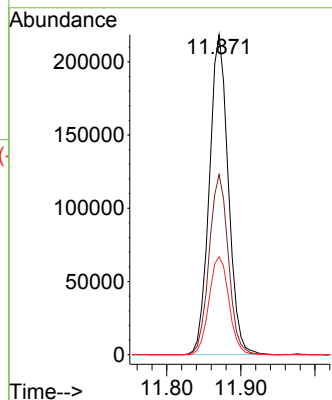
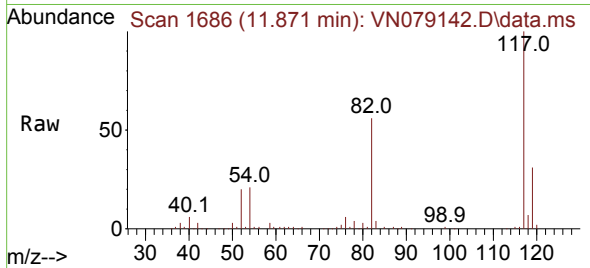




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

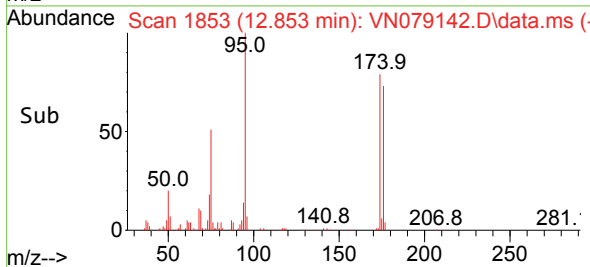
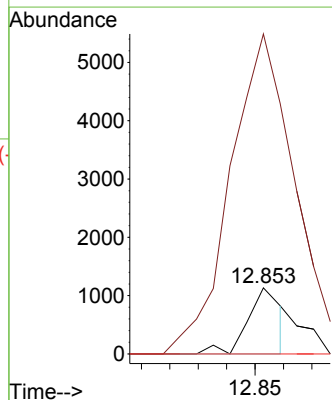
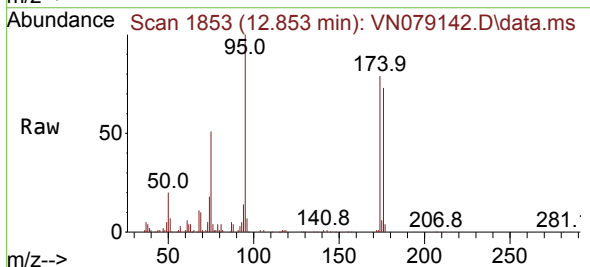
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

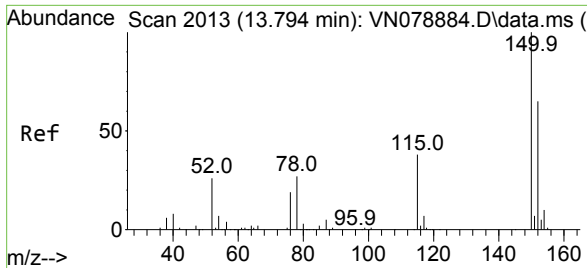
Tgt Ion:117 Resp: 387909
Ion Ratio Lower Upper
117 100
82 56.3 44.0 66.0
119 30.6 25.6 38.4



#71
Bromoform
Concen: 0.412 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion:173 Resp: 935
Ion Ratio Lower Upper
173 100
175 733.4 24.3 73.0#
254 0.0 0.0 0.0

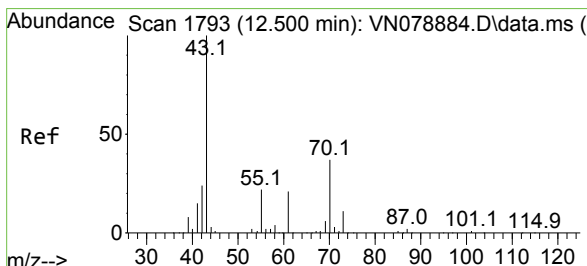
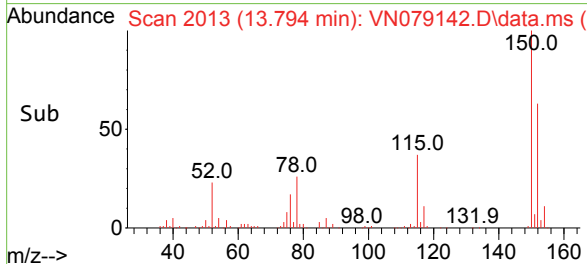
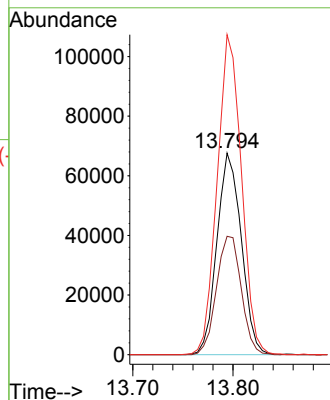
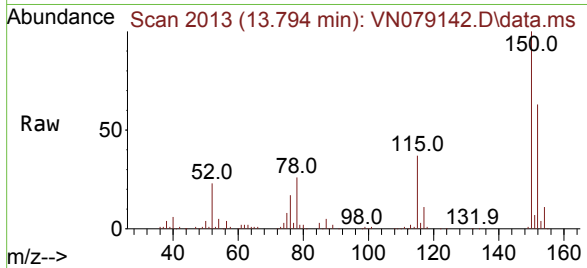




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

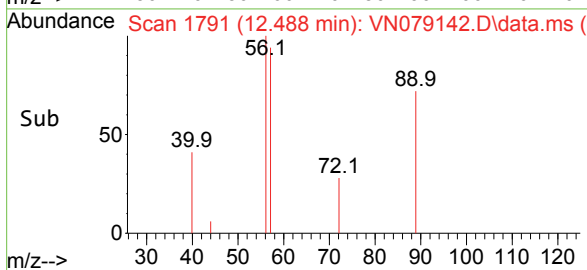
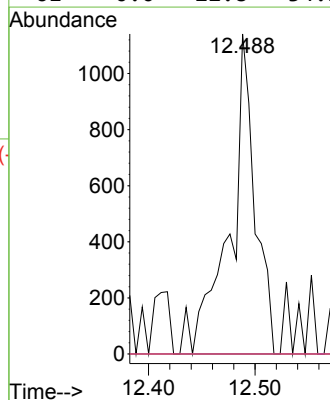
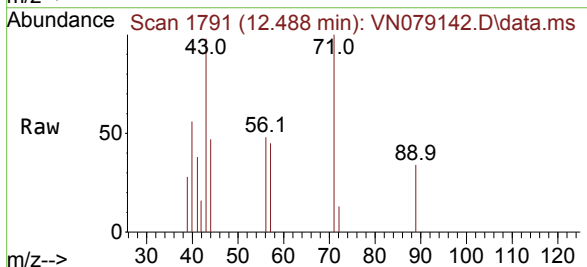
Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

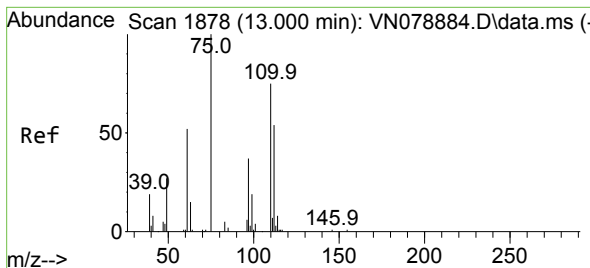
Tgt Ion:152 Resp: 114183
Ion Ratio Lower Upper
152 100
115 59.6 32.3 96.8
150 158.0 0.0 355.8



#74
N-ethyl acetate
Concen: 0.393 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Tgt Ion: 43 Resp: 1889
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: 28.991 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079142.D

Acq: 02 Sep 2023 14:47

Instrument :

MSVOA_N

ClientSampleId :

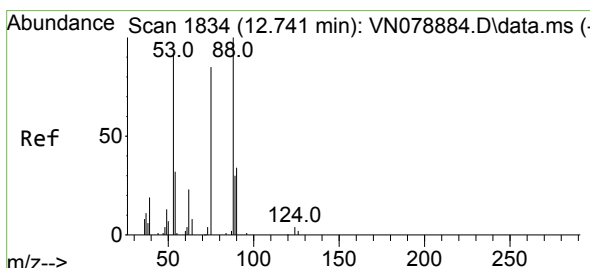
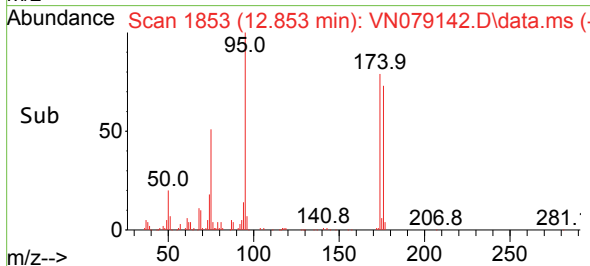
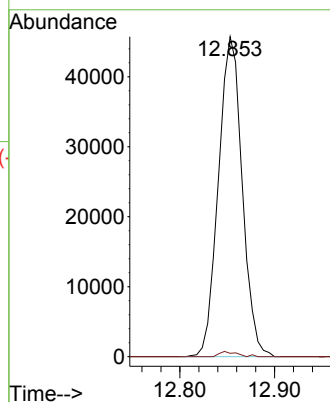
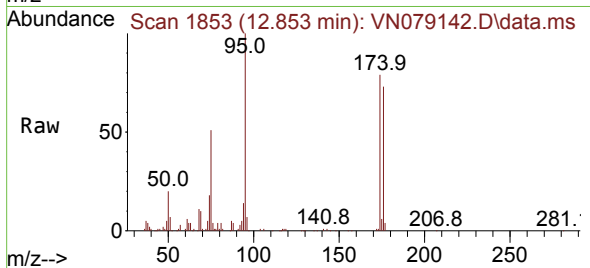
PB155301ZHE#04

Tgt Ion: 75 Resp: 79761

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.059 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079142.D

Acq: 02 Sep 2023 14:47

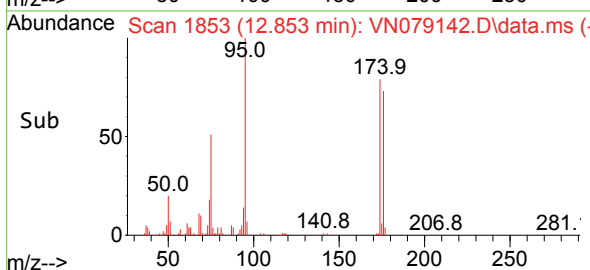
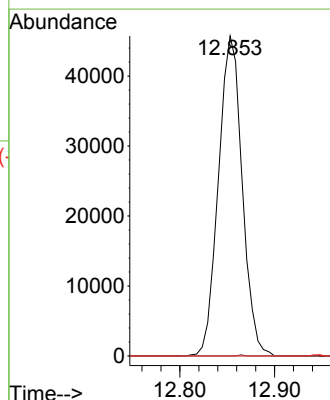
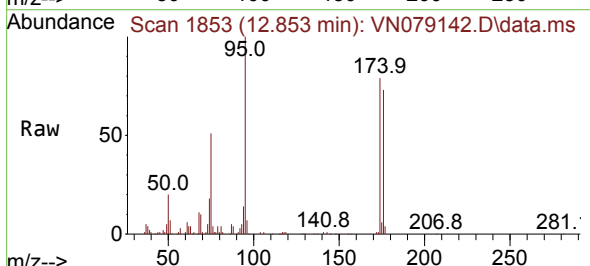
Tgt Ion: 75 Resp: 79761

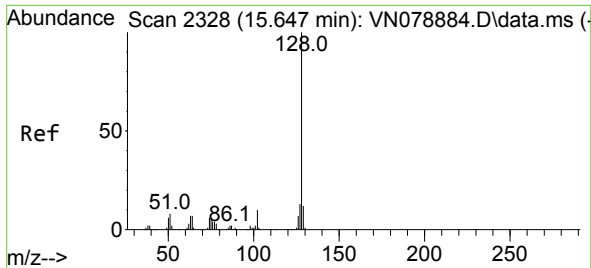
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 2.665 ug/l
RT: 15.653 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN079142.D
Acq: 02 Sep 2023 14:47

Instrument :
MSVOA_N
ClientSampleId :
PB155301ZHE#04

Tgt Ion:128 Resp: 502
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

