

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013124\
 Data File : VN080841.D
 Acq On : 31 Jan 2024 15:32
 Operator : JC\MD
 Sample : PB158700TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB158700TB

Quant Time: Jan 31 23:18:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N012924W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 29 12:54:23 2024
 Response via : Initial Calibration

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

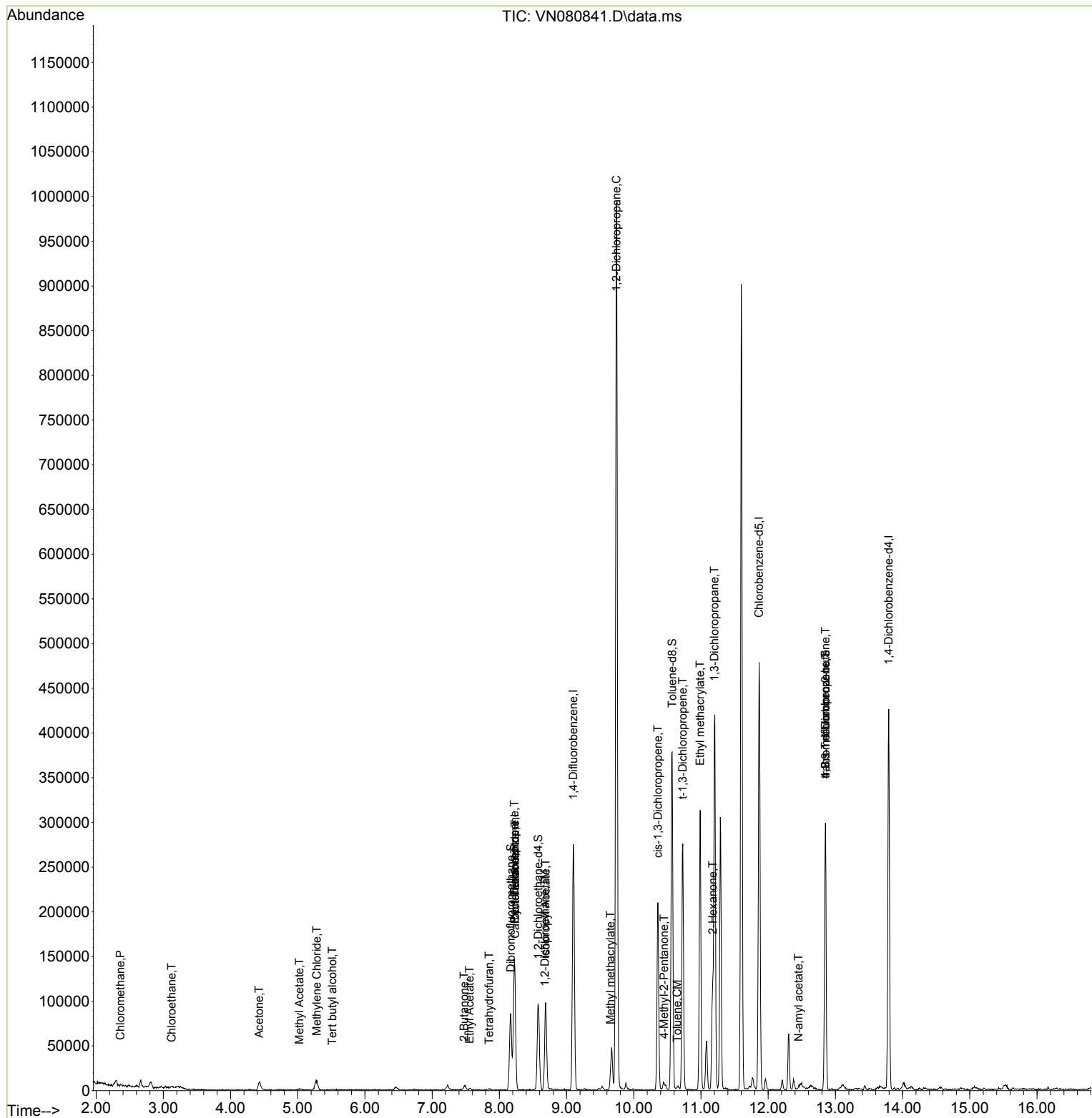
Internal Standards						
1) Pentafluorobenzene	8.230	168	91218	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	216124	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	238984	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	98688	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	76008	48.166	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.340%		
35) Dibromofluoromethane	8.171	113	57608	43.568	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	87.140%		
50) Toluene-d8	10.571	98	244650	47.273	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.540%		
62) 4-Bromofluorobenzene	12.853	95	97614	54.127	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	108.260%		
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	1512	0.742	ug/l #	73
6) Chloroethane	3.124	64	334	0.405	ug/l #	42
11) Tert butyl alcohol	5.512	59	711	2.764	ug/l #	72
16) Acetone	4.424	43	16708	29.194	ug/l #	86
18) Methyl Acetate	5.024	43	1266	0.635	ug/l #	54
20) Methylene Chloride	5.283	84	7595	5.055	ug/l #	80
25) 2-Butanone	7.477	43	9514	8.752	ug/l #	80
29) Tetrahydrofuran	7.847	42	1297	1.763	ug/l #	49
31) Cyclohexane	8.230	56	4014	1.483	ug/l #	21
36) 1,1-Dichloropropene	8.224	75	10777	4.385	ug/l #	50
37) Ethyl Acetate	7.559	43	3071	1.214	ug/l #	80
38) Carbon Tetrachloride	8.236	117	11292	5.703	ug/l #	20
42) 1,2-Dichloroethane	8.677	62	530	0.225	ug/l #	75
43) Isopropyl Acetate	8.688	43	115402	25.054	ug/l #	91
45) 1,2-Dichloropropane	9.741	63	1106	0.566	ug/l #	42
48) Methyl methacrylate	9.653	41	3964	1.775	ug/l #	43
51) 4-Methyl-2-Pentanone	10.453	43	5525	2.146	ug/l	99
52) Toluene	10.647	92	831	0.201	ug/l #	73
53) t-1,3-Dichloropropene	10.729	75	600	0.219	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	34183	11.469	ug/l #	67
56) Ethyl methacrylate	10.988	69	766	0.313	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4324	1.444	ug/l #	43
59) 2-Hexanone	11.176	43	111953	55.973	ug/l #	26
74) N-amyl acetate	12.453	43	2589	0.461	ug/l #	49
76) 1,2,3-Trichloropropane	12.853	75	60195	20.224	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	60195	52.100	ug/l #	14

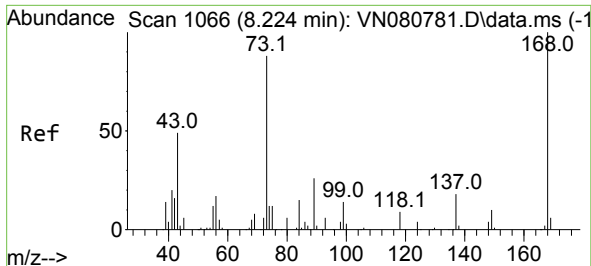
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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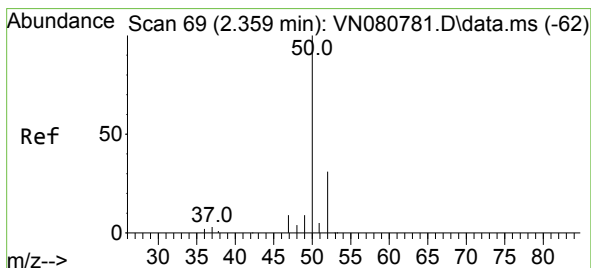
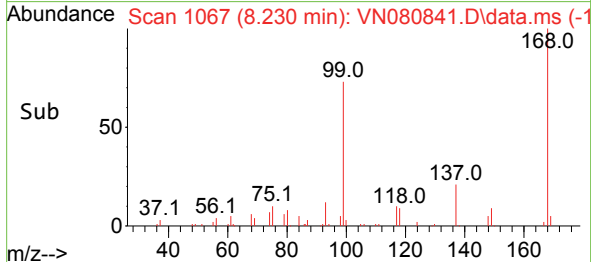
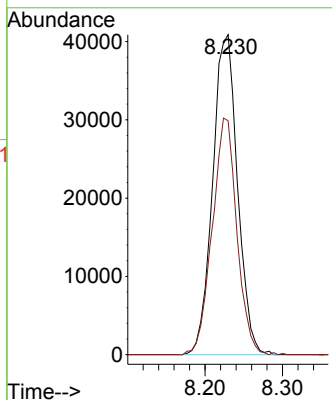
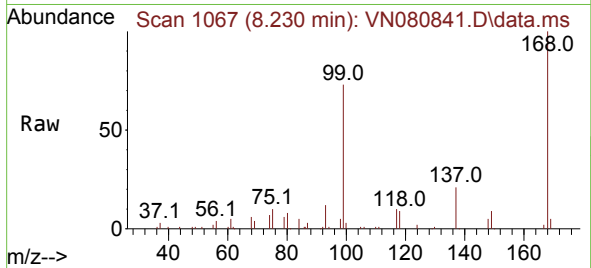




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.006 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

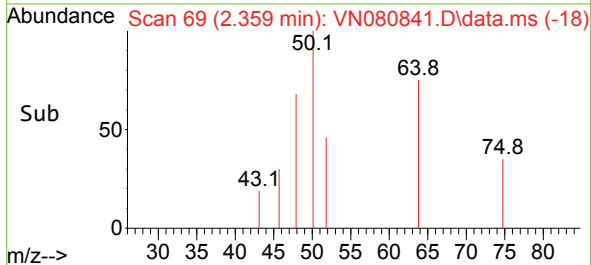
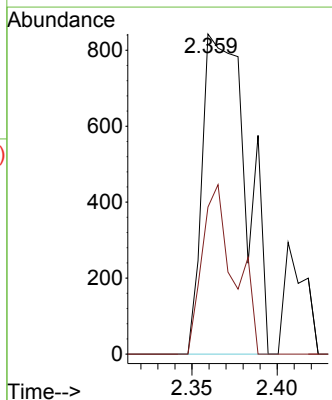
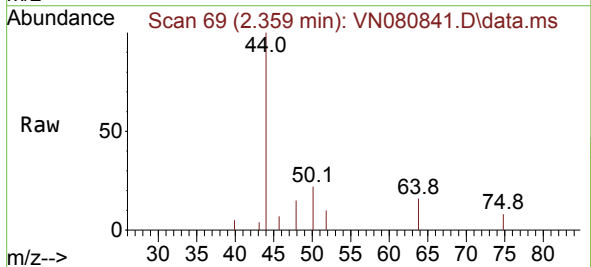
Instrument :
MSVOA_N
ClientSampleId :
PB158700TB

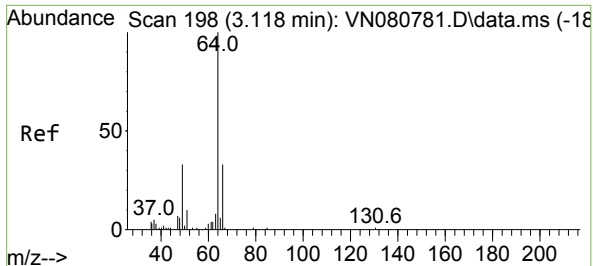
Tgt Ion:168 Resp: 91218
Ion Ratio Lower Upper
168 100
99 73.1 59.9 89.9



#3
Chloromethane
Concen: 0.742 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Tgt Ion: 50 Resp: 1512
Ion Ratio Lower Upper
50 100
52 45.9 25.0 37.4#

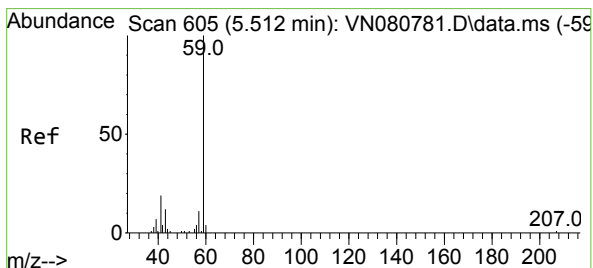
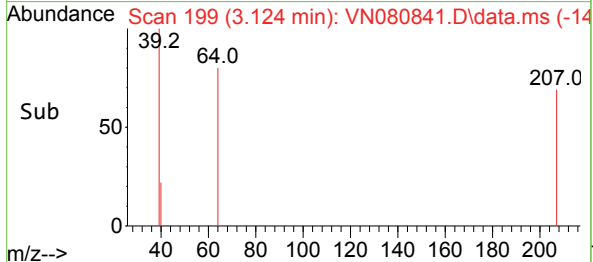
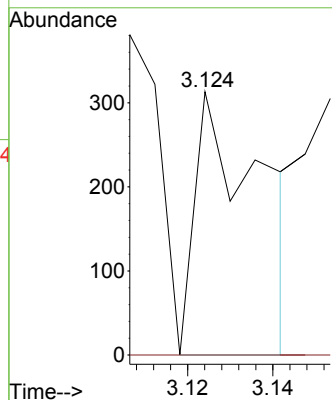
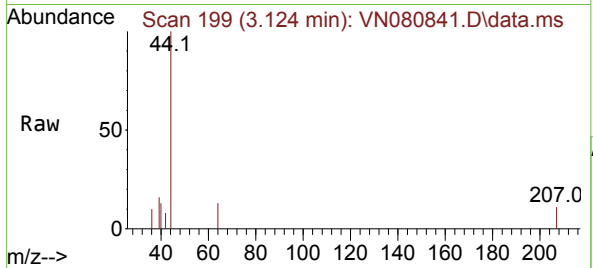




#6
Chloroethane
Concen: 0.405 ug/l
RT: 3.124 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

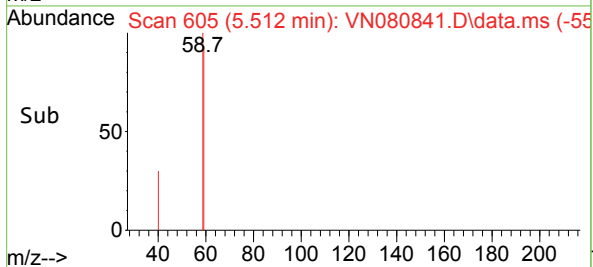
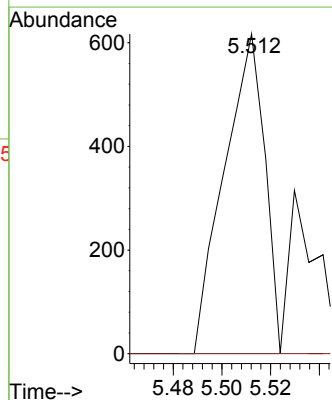
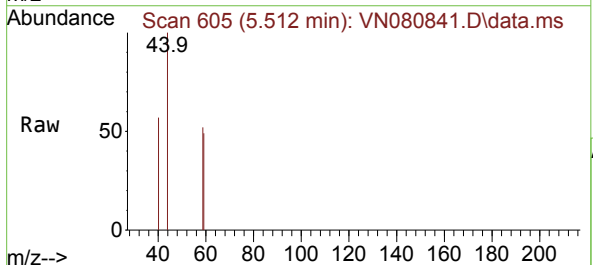
Instrument :
MSVOA_N
ClientSampleId :
PB158700TB

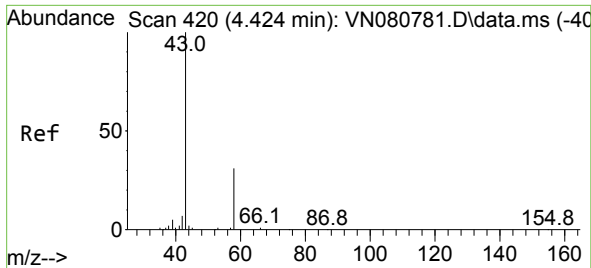
Tgt Ion: 64 Resp: 334
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#



#11
Tert butyl alcohol
Concen: 2.764 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Tgt Ion: 59 Resp: 711
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

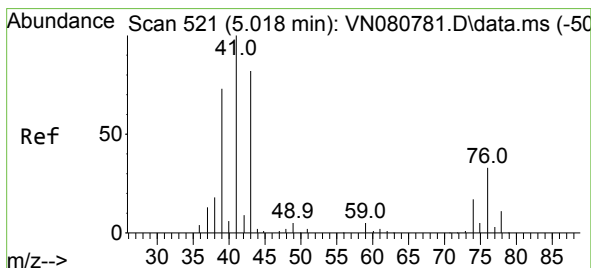
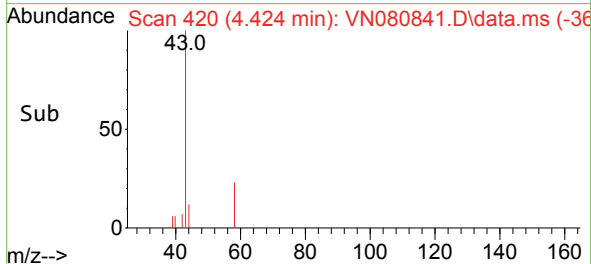
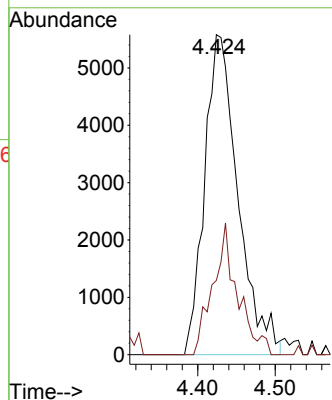
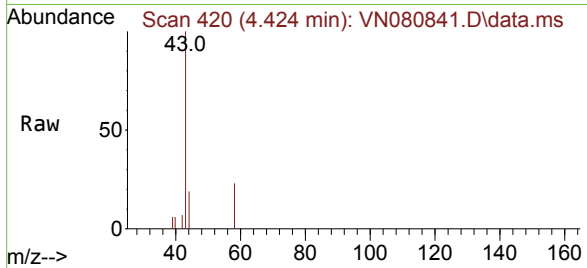




#16
Acetone
Concen: 29.194 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

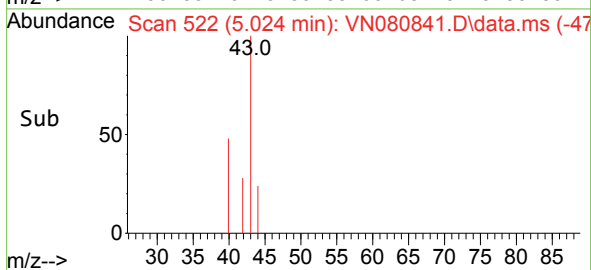
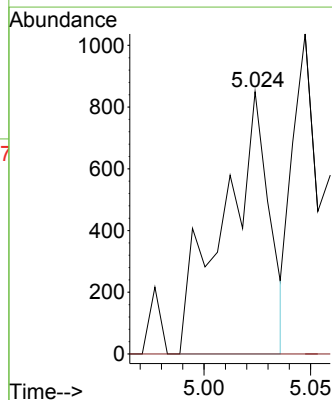
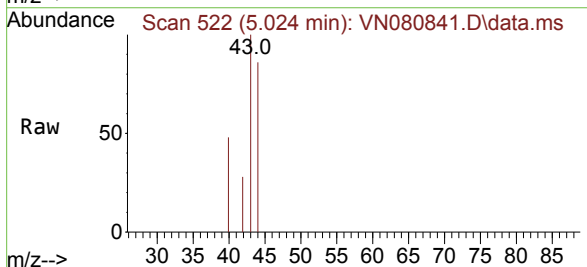
Instrument :
MSVOA_N
ClientSampleId :
PB158700TB

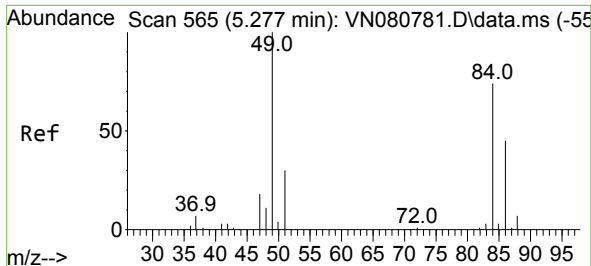
Tgt Ion: 43 Resp: 16708
Ion Ratio Lower Upper
43 100
58 23.2 24.8 37.2#



#18
Methyl Acetate
Concen: 0.635 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Tgt Ion: 43 Resp: 1266
Ion Ratio Lower Upper
43 100
74 0.0 17.3 25.9#

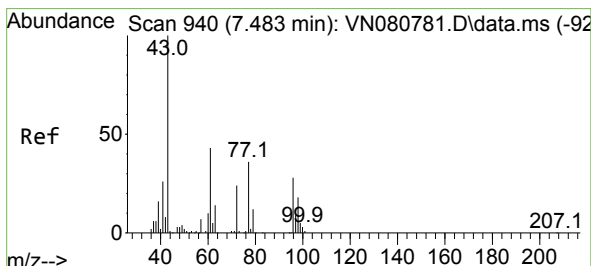
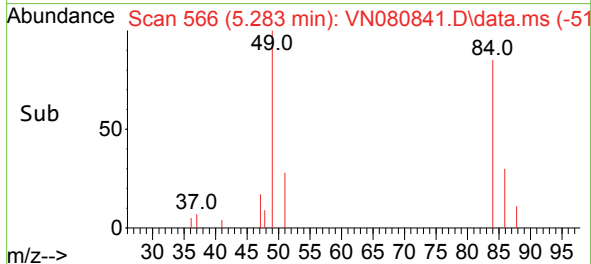
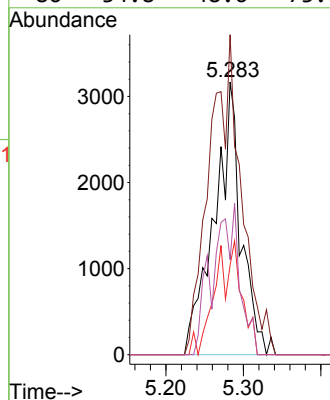
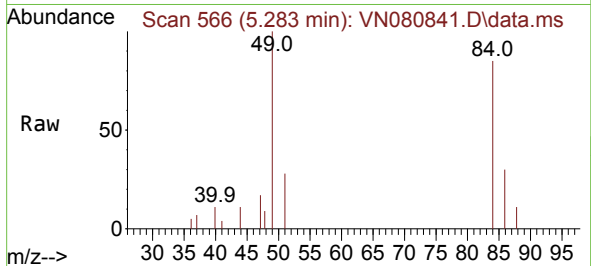




#20
Methylene Chloride
Concen: 5.055 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

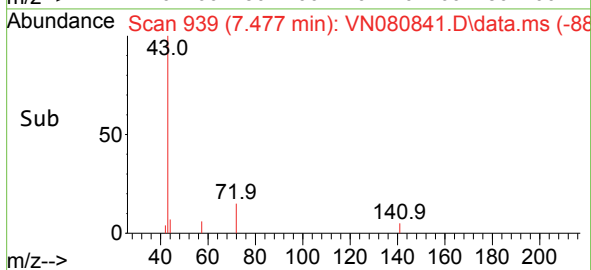
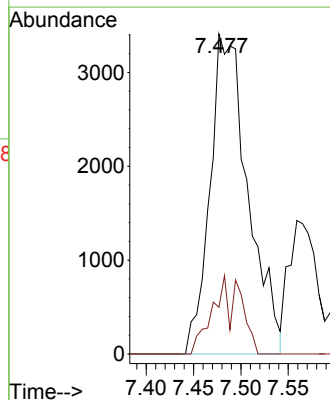
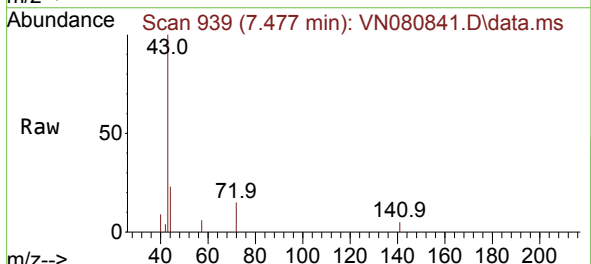
Instrument :
MSVOA_N
ClientSampleId :
PB158700TB

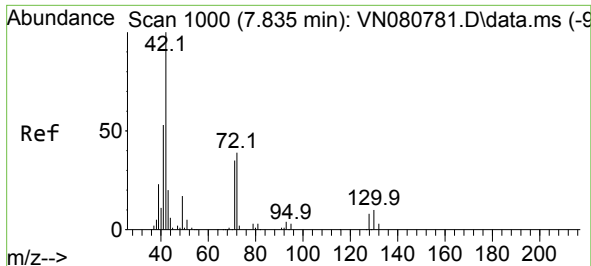
Tgt Ion:	84	Resp:	7595
Ion	Ratio	Lower	Upper
84	100		
49	117.4	108.1	162.1
51	32.9	32.9	49.3#
86	34.8	48.6	73.0#



#25
2-Butanone
Concen: 8.752 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Tgt Ion:	43	Resp:	9514
Ion	Ratio	Lower	Upper
43	100		
72	14.6	19.5	29.3#





#29

Tetrahydrofuran

Concen: 1.763 ug/l

RT: 7.847 min Scan# 1067

Delta R.T. 0.012 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

Instrument :

MSVOA_N

ClientSampleId :

PB158700TB

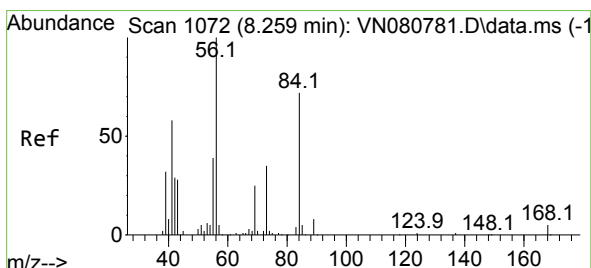
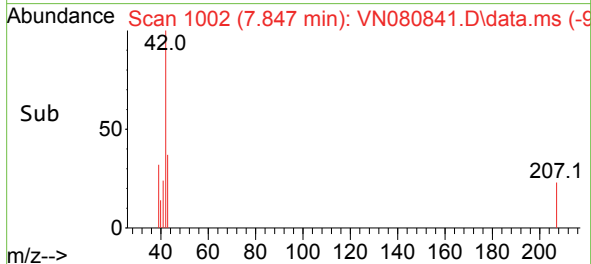
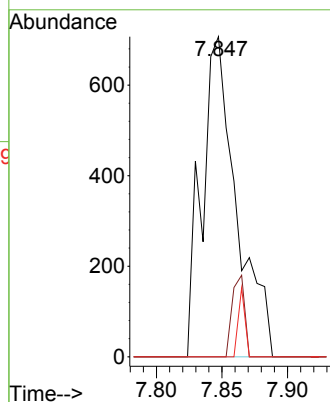
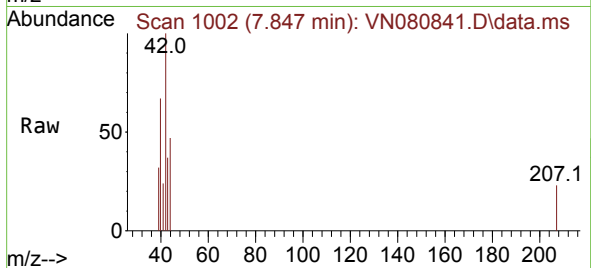
Tgt Ion: 42 Resp: 1297

Ion Ratio Lower Upper

42 100

72 9.1 31.1 46.7#

71 4.2 28.3 42.5#



#31

Cyclohexane

Concen: 1.483 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.029 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

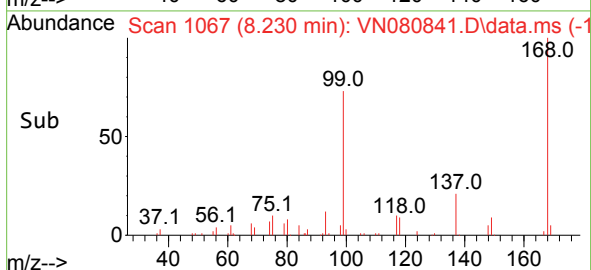
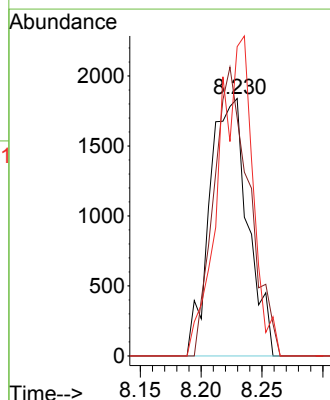
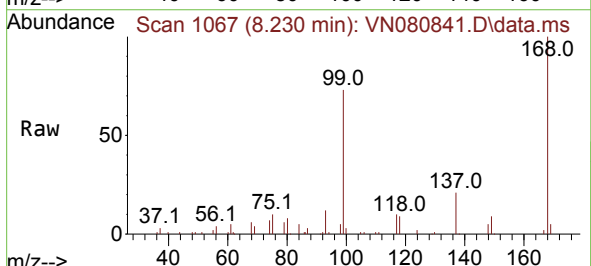
Tgt Ion: 56 Resp: 4014

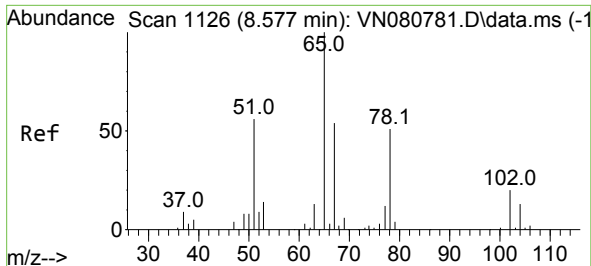
Ion Ratio Lower Upper

56 100

69 92.5 20.1 30.1#

84 120.1 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 48.166 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

Instrument :

MSVOA_N

ClientSampleId :

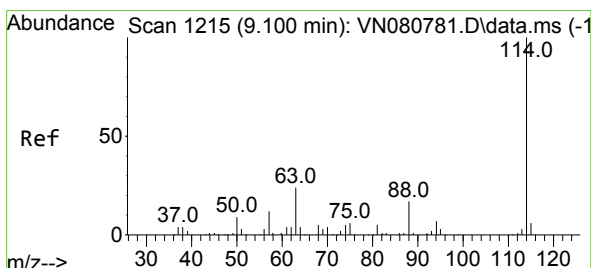
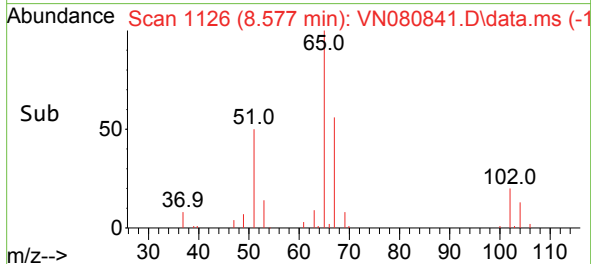
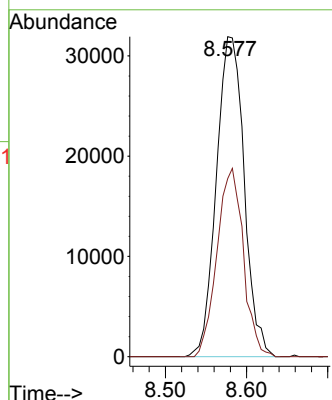
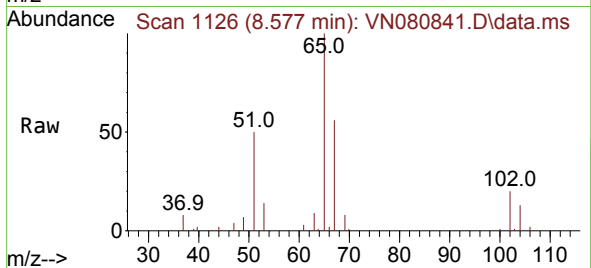
PB158700TB

Tgt Ion: 65 Resp: 76008

Ion Ratio Lower Upper

65 100

67 55.7 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

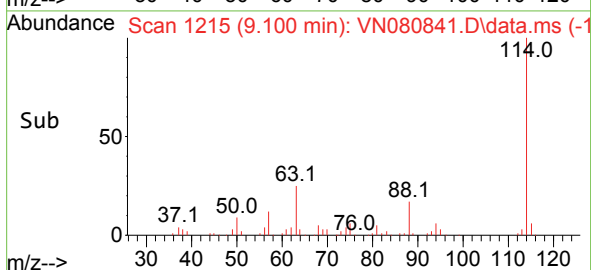
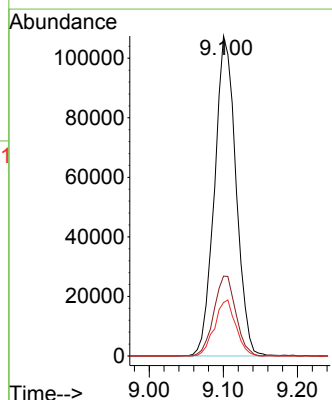
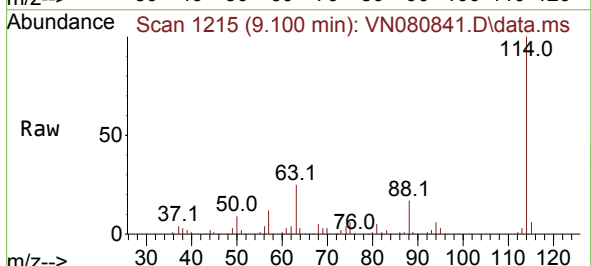
Tgt Ion: 114 Resp: 216124

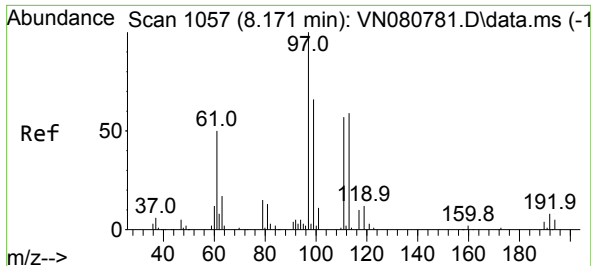
Ion Ratio Lower Upper

114 100

63 25.0 0.0 48.0

88 16.7 0.0 34.8

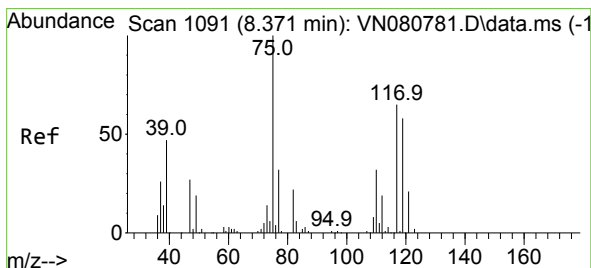
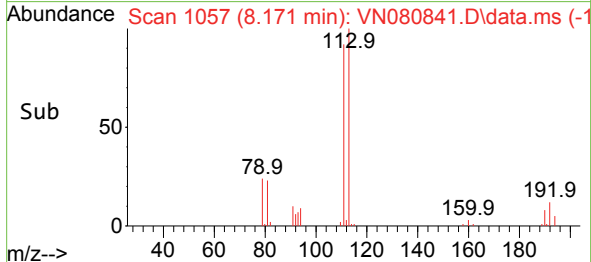
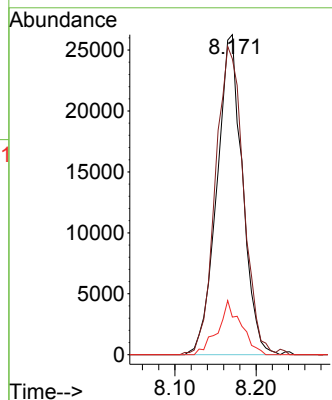
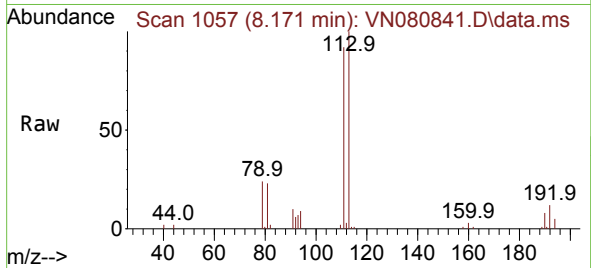




#35
Dibromofluoromethane
Concen: 43.568 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

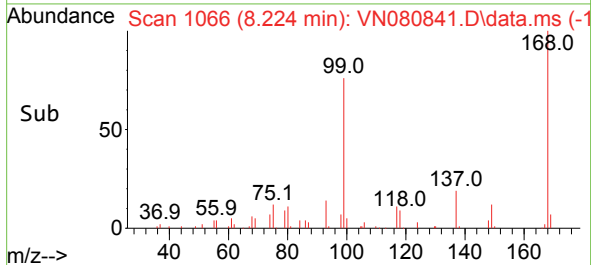
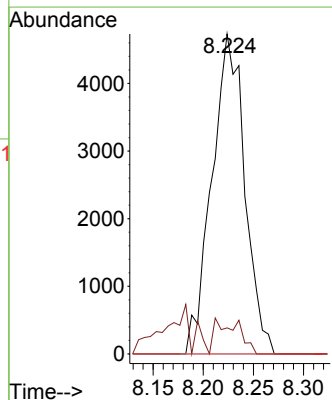
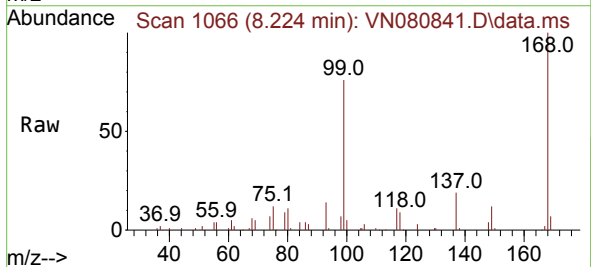
Instrument :
MSVOA_N
ClientSampleId :
PB158700TB

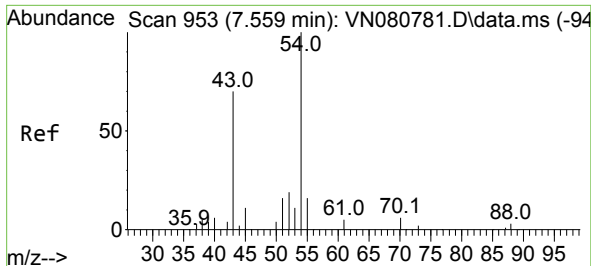
Tgt Ion:113 Resp: 57608
Ion Ratio Lower Upper
113 100
111 105.1 82.2 123.4
192 15.4 12.5 18.7



#36
1,1-Dichloropropene
Concen: 4.385 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Tgt Ion: 75 Resp: 10777
Ion Ratio Lower Upper
75 100
110 8.0 16.0 48.0#
77 0.0 25.8 38.6#

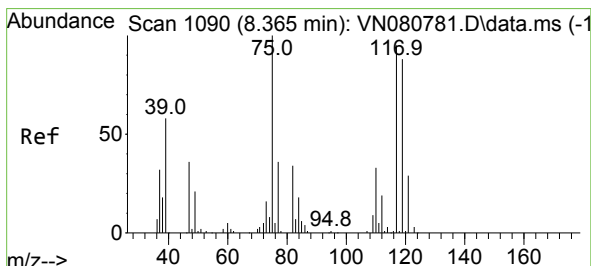
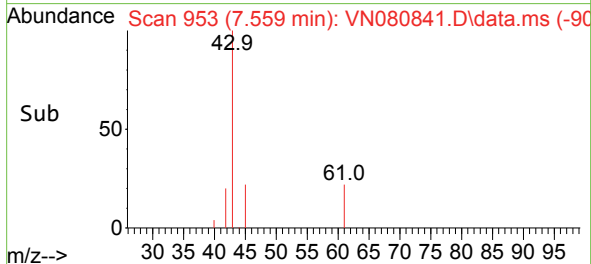
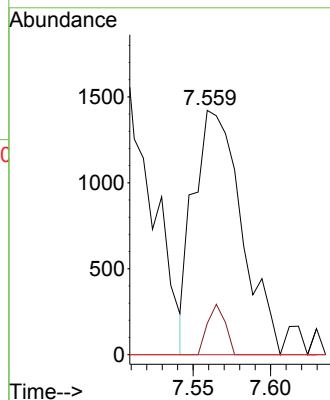
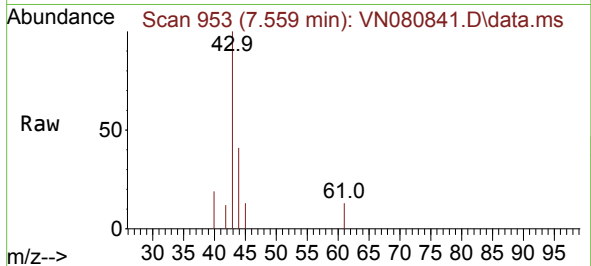




#37
Ethyl Acetate
Concen: 1.214 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

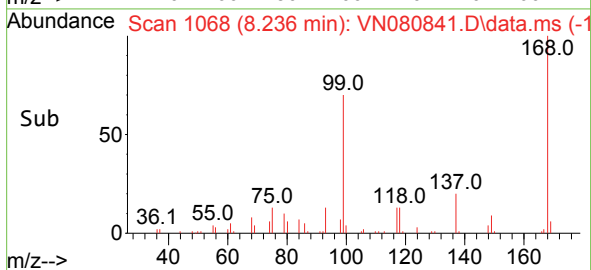
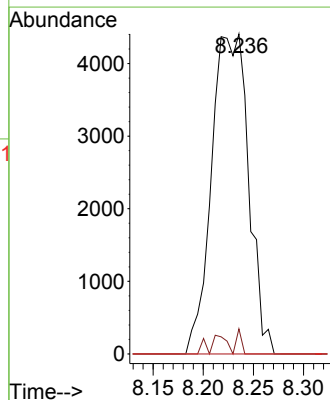
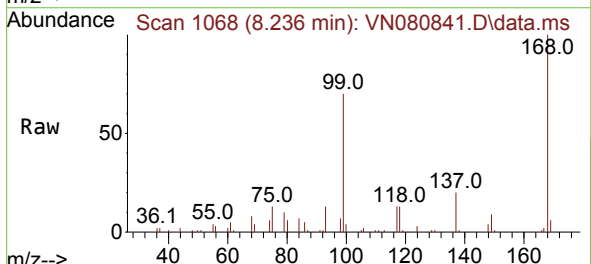
Instrument :
MSVOA_N
ClientSampleId :
PB158700TB

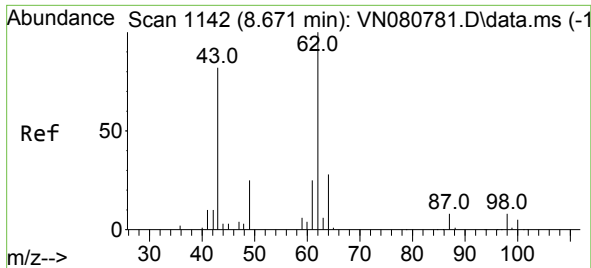
Tgt Ion: 43 Resp: 3071
Ion Ratio Lower Upper
43 100
61 7.6 10.6 15.8#
70 0.0 8.0 12.0#



#38
Carbon Tetrachloride
Concen: 5.703 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.129 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Tgt Ion: 117 Resp: 11292
Ion Ratio Lower Upper
117 100
119 7.9 73.4 110.2#
121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.225 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

Instrument :

MSVOA_N

ClientSampleId :

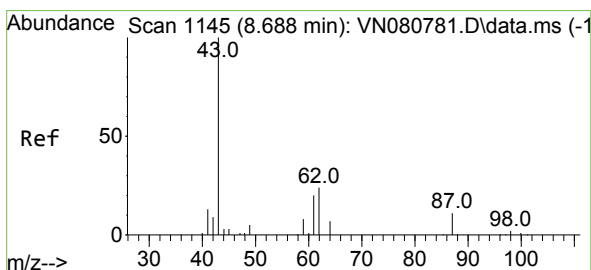
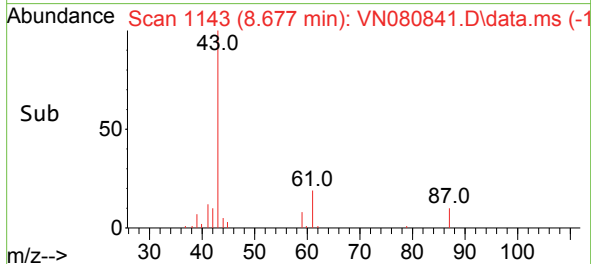
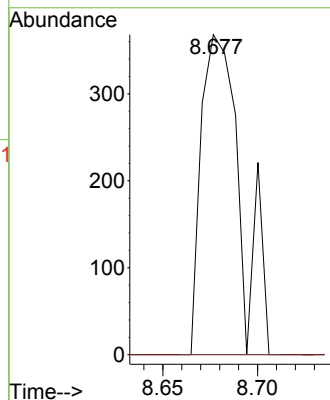
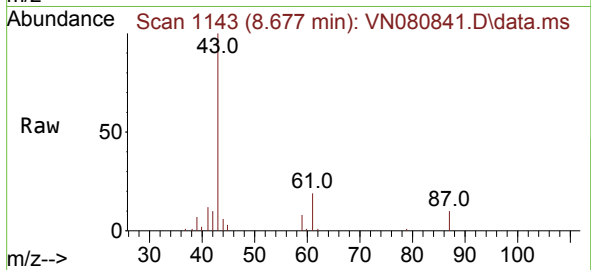
PB158700TB

Tgt Ion: 62 Resp: 530

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 25.054 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

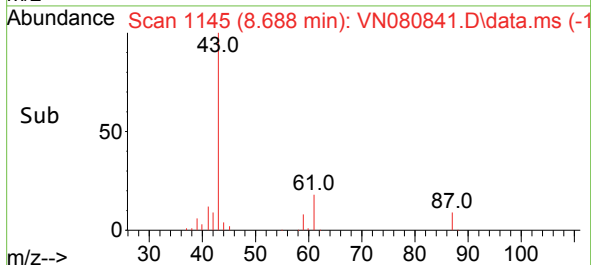
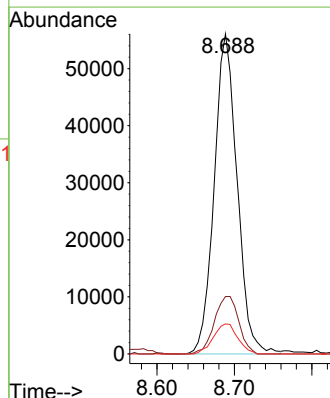
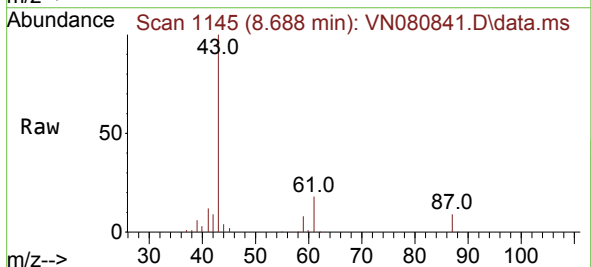
Tgt Ion: 43 Resp: 115402

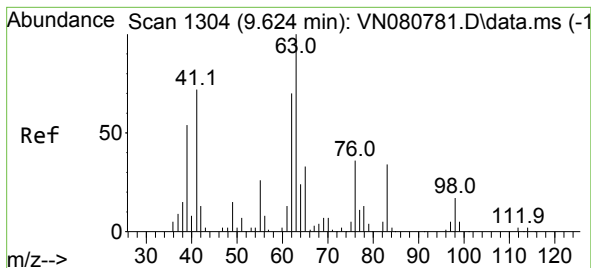
Ion Ratio Lower Upper

43 100

61 19.1 19.9 29.9#

87 10.0 9.0 13.6





#45

1,2-Dichloropropane

Concen: 0.566 ug/l

RT: 9.741 min Scan# 1106

Delta R.T. 0.118 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

Instrument :

MSVOA_N

ClientSampleId :

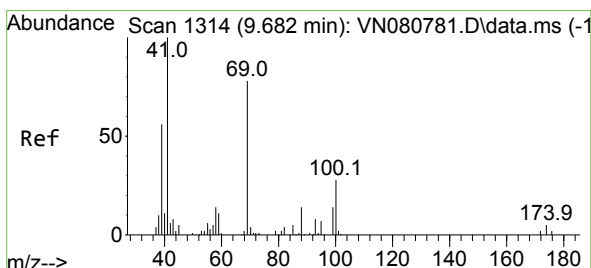
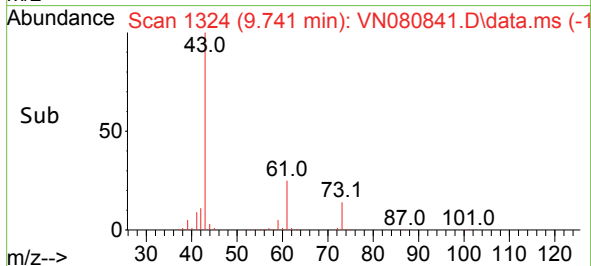
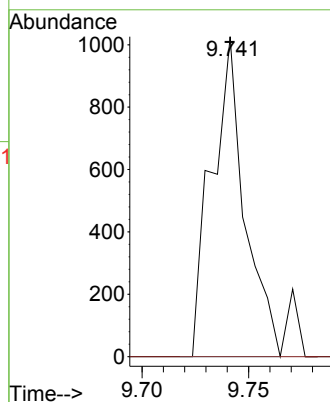
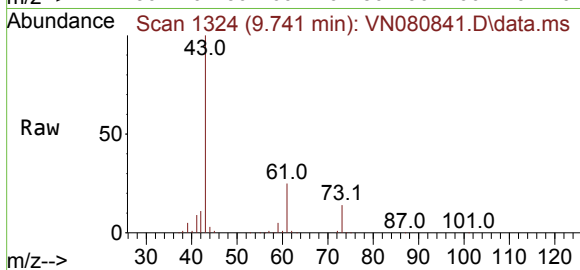
PB158700TB

Tgt Ion: 63 Resp: 1106

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.775 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.029 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

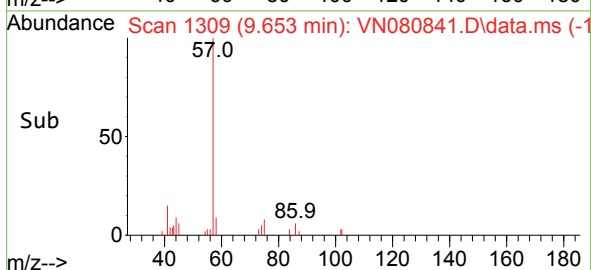
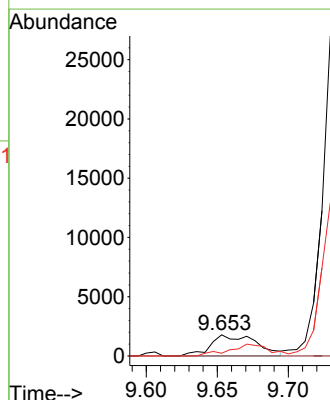
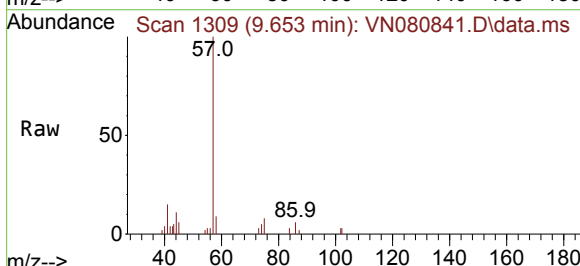
Tgt Ion: 41 Resp: 3964

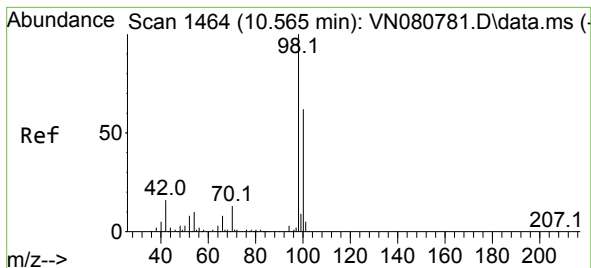
Ion Ratio Lower Upper

41 100

69 0.0 62.2 93.2#

39 49.1 47.6 71.4





#50

Toluene-d8

Concen: 47.273 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

Instrument :

MSVOA_N

ClientSampleId :

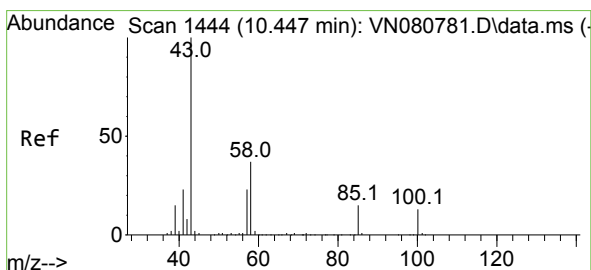
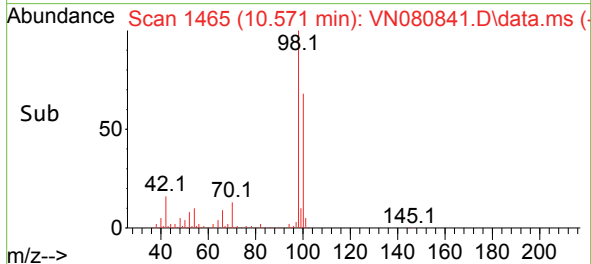
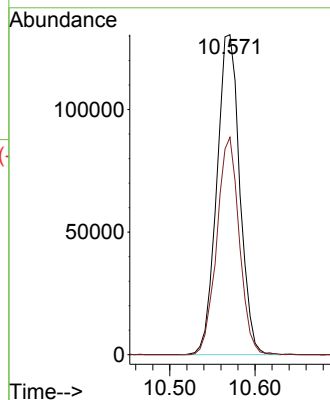
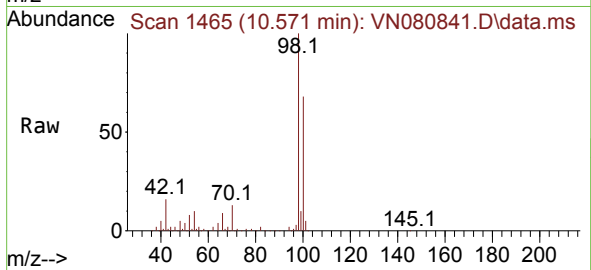
PB158700TB

Tgt Ion: 98 Resp: 244650

Ion Ratio Lower Upper

98 100

100 66.4 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 2.146 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.006 min

Lab File: VN080841.D

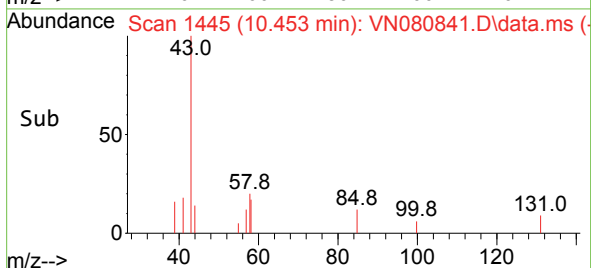
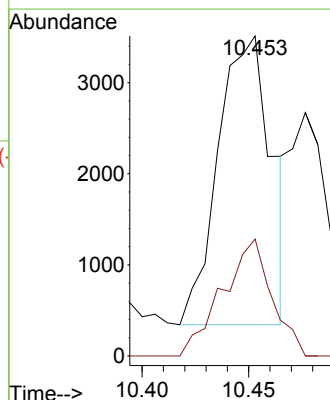
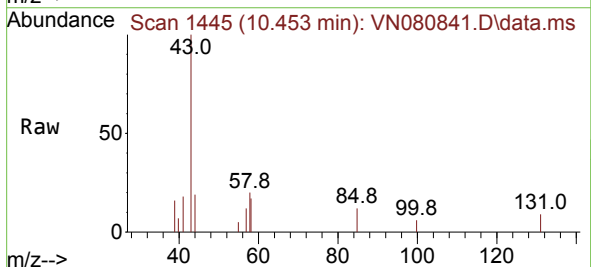
Acq: 31 Jan 2024 15:32

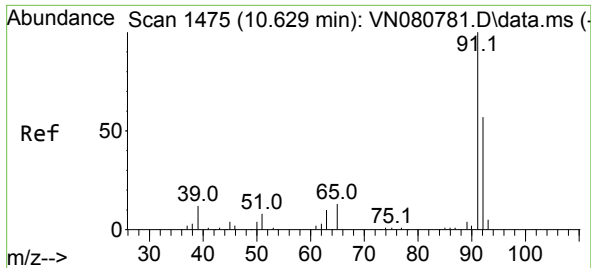
Tgt Ion: 43 Resp: 5525

Ion Ratio Lower Upper

43 100

58 37.3 29.4 44.0





#52

Toluene

Concen: 0.201 ug/l

RT: 10.647 min Scan# 1478

Delta R.T. 0.018 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

Instrument :

MSVOA_N

ClientSampleId :

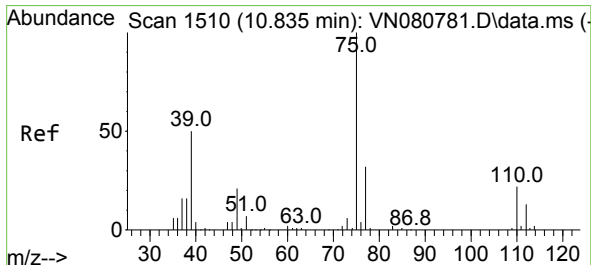
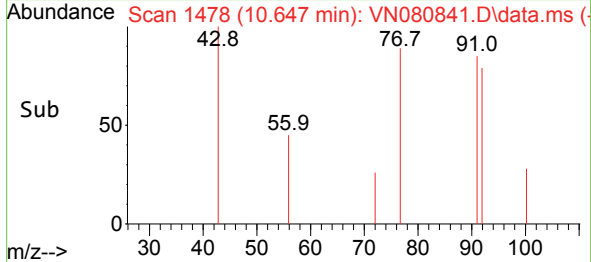
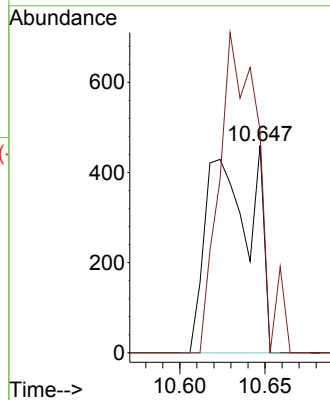
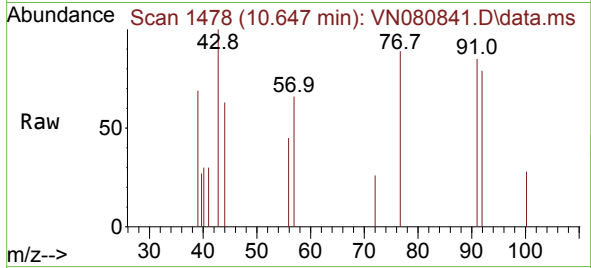
PB158700TB

Tgt Ion: 92 Resp: 831

Ion Ratio Lower Upper

92 100

91 136.0 139.4 209.0#



#53

t-1,3-Dichloropropene

Concen: 0.219 ug/l

RT: 10.729 min Scan# 1492

Delta R.T. -0.106 min

Lab File: VN080841.D

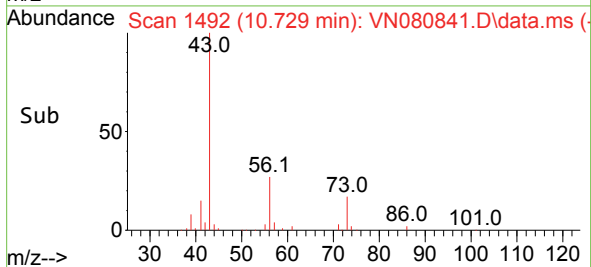
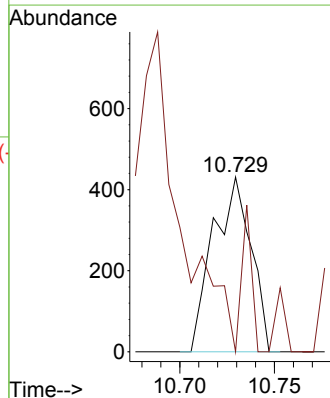
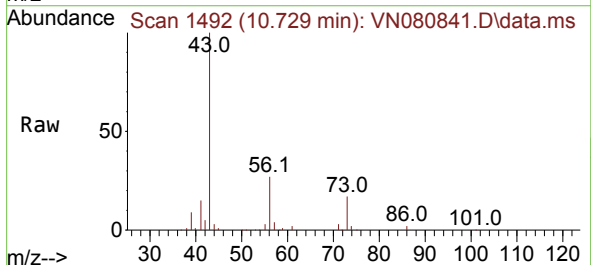
Acq: 31 Jan 2024 15:32

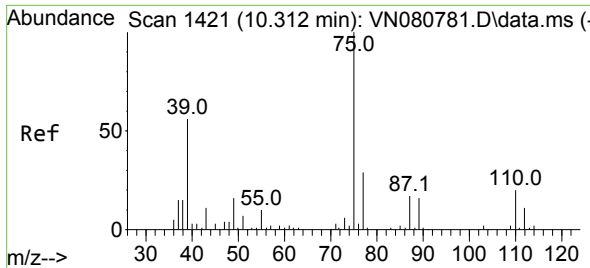
Tgt Ion: 75 Resp: 600

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

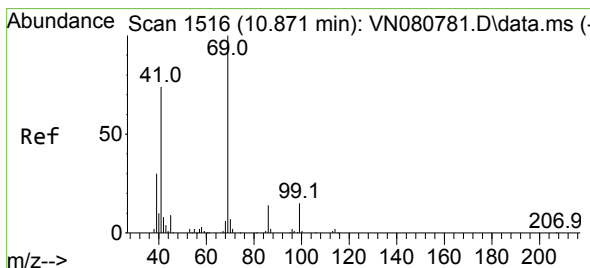
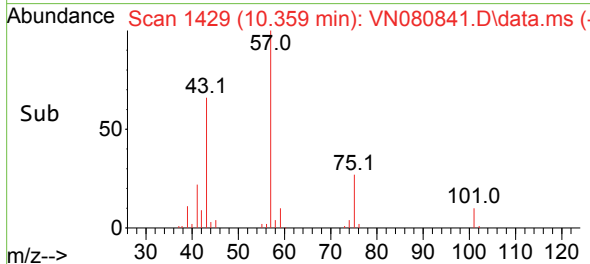
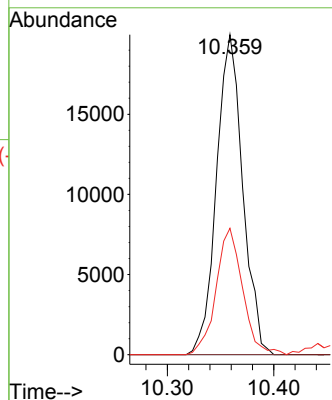
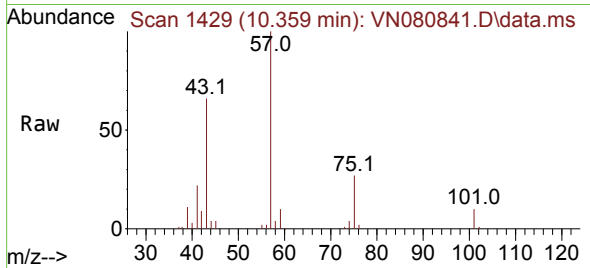




#54
 cis-1,3-Dichloropropene
 Concen: 11.469 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN080841.D
 Acq: 31 Jan 2024 15:32

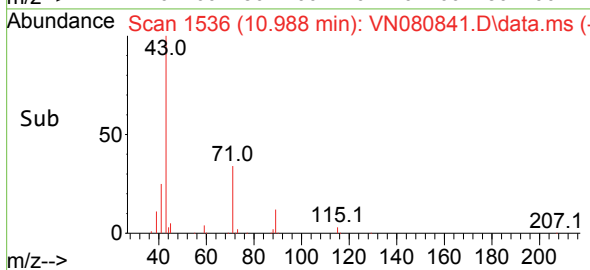
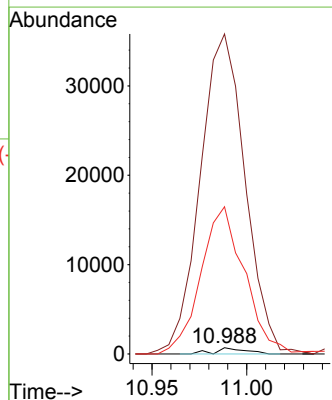
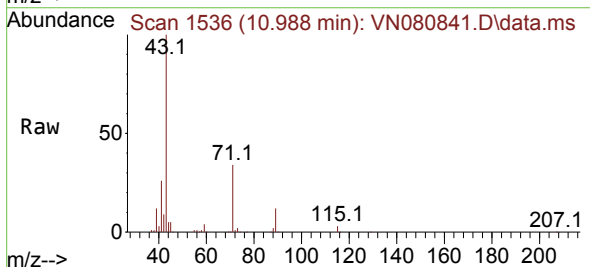
Instrument :
 MSVOA_N
 ClientSampleId :
 PB158700TB

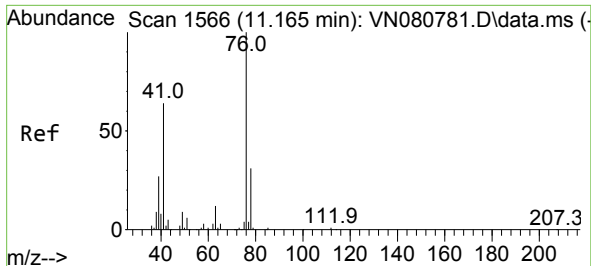
Tgt Ion: 75 Resp: 34183
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.3 34.9#
 39 39.5 44.6 66.8#



#56
 Ethyl methacrylate
 Concen: 0.313 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.117 min
 Lab File: VN080841.D
 Acq: 31 Jan 2024 15:32

Tgt Ion: 69 Resp: 766
 Ion Ratio Lower Upper
 69 100
 41 7722.2 61.0 91.6#
 39 3452.7 31.8 47.6#





#57

1,3-Dichloropropane

Concen: 1.444 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN080841.D

Acq: 31 Jan 2024 15:32

Instrument :

MSVOA_N

ClientSampleId :

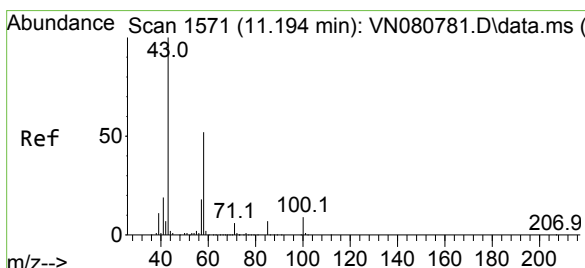
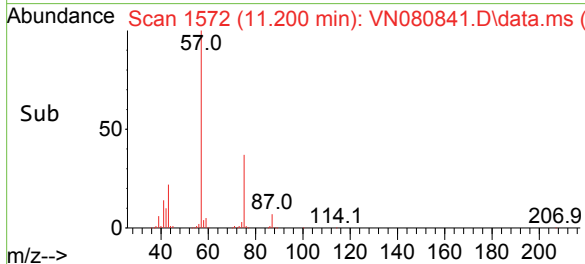
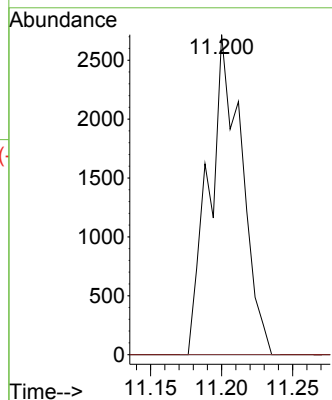
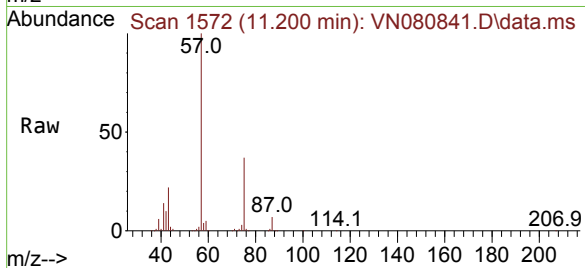
PB158700TB

Tgt Ion: 76 Resp: 4324

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 55.973 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.018 min

Lab File: VN080841.D

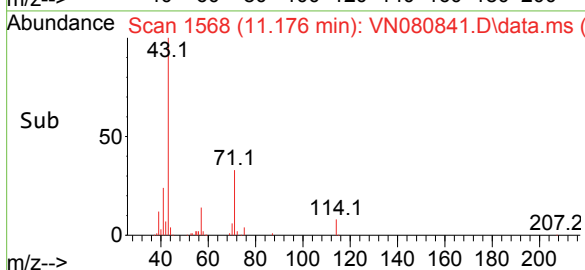
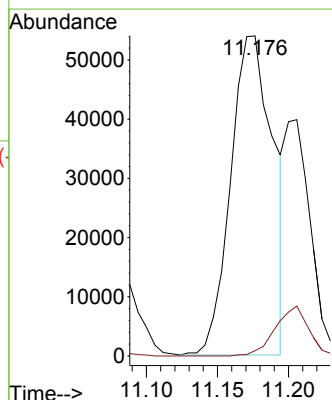
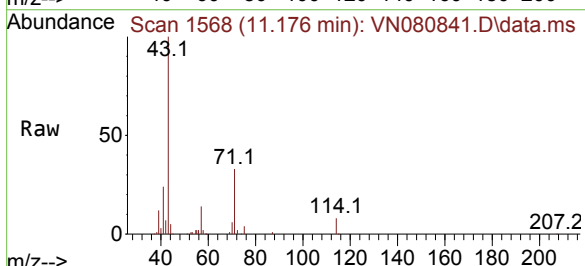
Acq: 31 Jan 2024 15:32

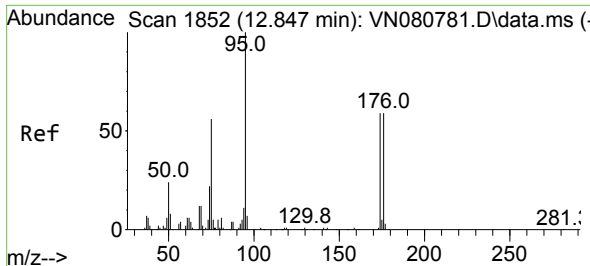
Tgt Ion: 43 Resp: 111953

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.8#

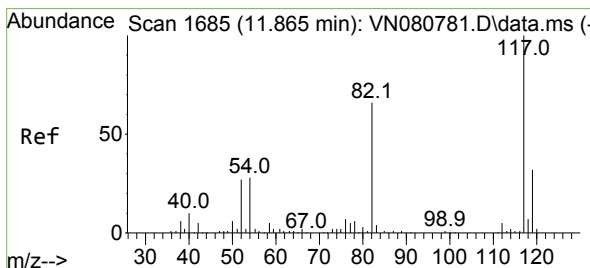
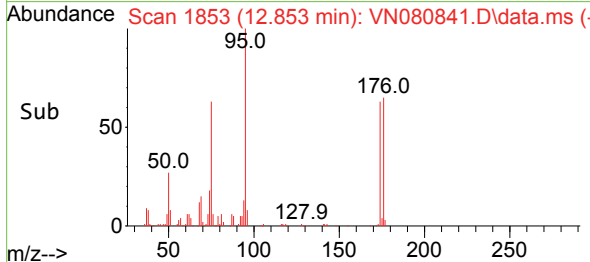
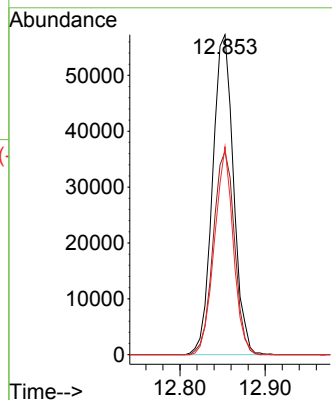
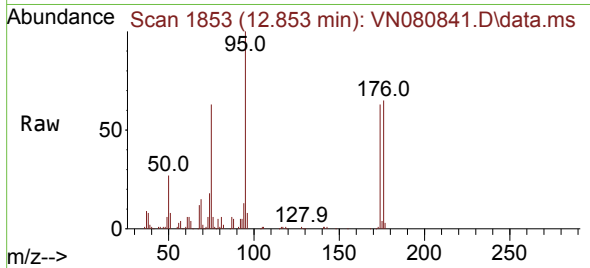




#62
4-Bromofluorobenzene
Concen: 54.127 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

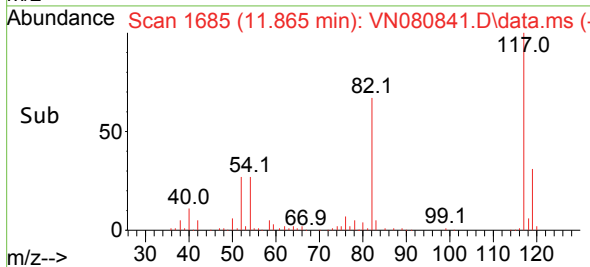
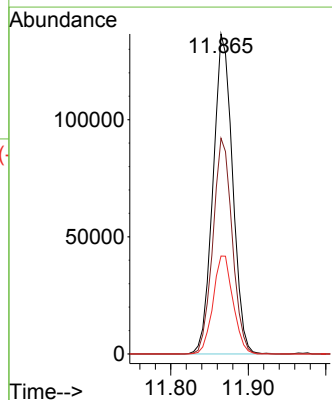
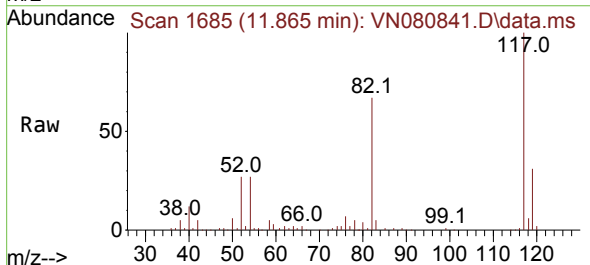
Instrument :
MSVOA_N
ClientSampleId :
PB158700TB

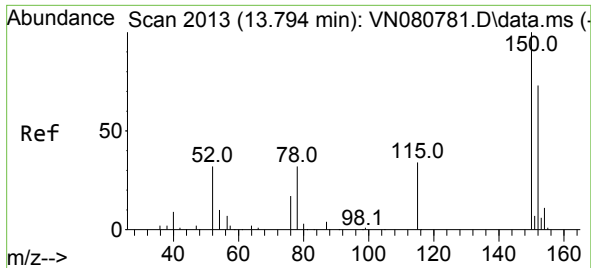
Tgt Ion: 95 Resp: 97614
Ion Ratio Lower Upper
95 100
174 64.8 0.0 120.4
176 58.6 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Tgt Ion: 117 Resp: 238984
Ion Ratio Lower Upper
117 100
82 67.4 52.7 79.1
119 30.6 25.3 37.9

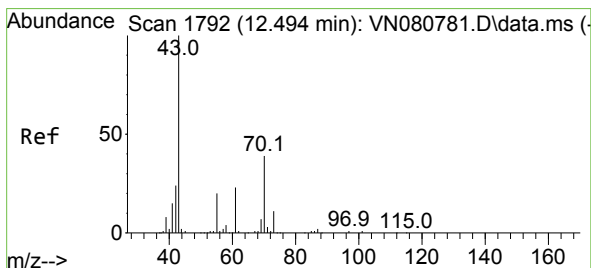
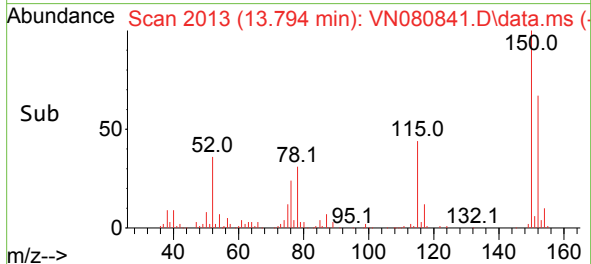
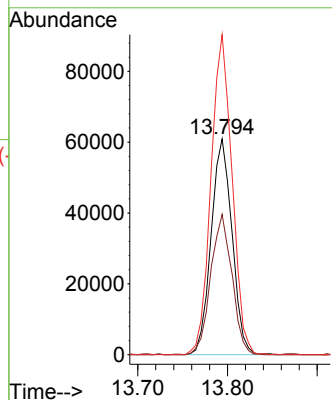
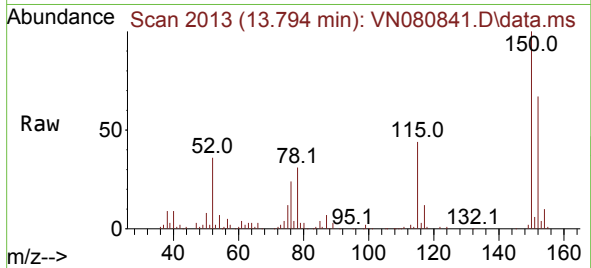




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

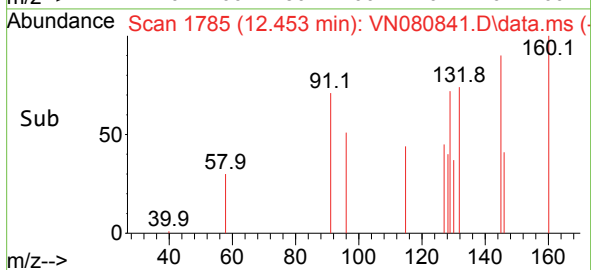
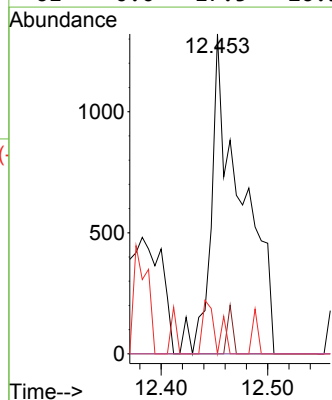
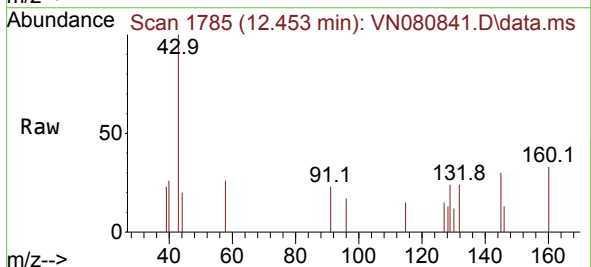
Instrument :
MSVOA_N
ClientSampleId :
PB158700TB

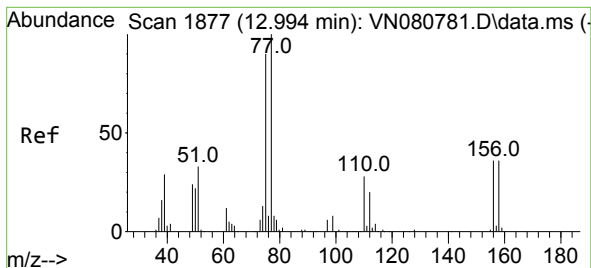
Tgt Ion:152 Resp: 98688
Ion Ratio Lower Upper
152 100
115 66.0 32.3 96.8
150 149.2 0.0 339.8



#74
N-ethyl acetate
Concen: 0.461 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.041 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Tgt Ion: 43 Resp: 2589
Ion Ratio Lower Upper
43 100
70 2.7 30.1 45.1#
55 0.0 17.0 25.4#
61 0.0 17.5 26.3#

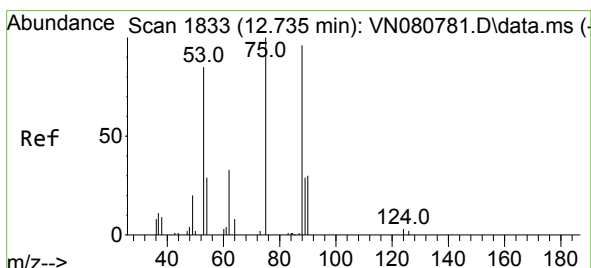
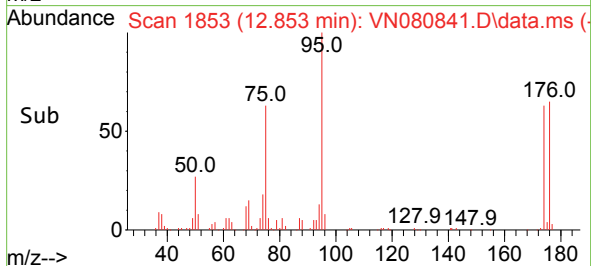
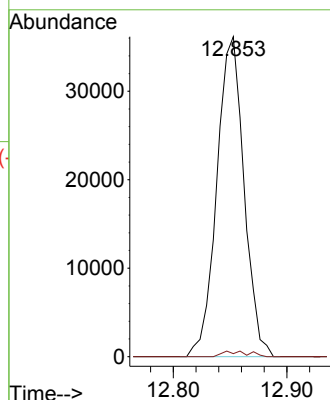
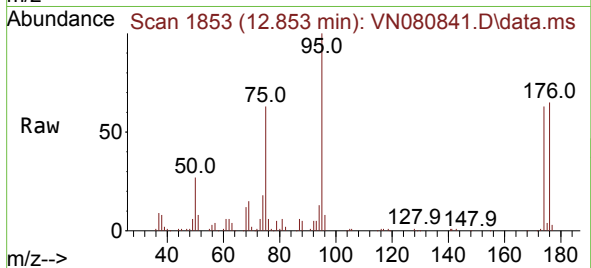




#76
1,2,3-Trichloropropane
Concen: 20.224 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Instrument :
MSVOA_N
ClientSampleId :
PB158700TB

Tgt Ion: 75 Resp: 60195
Ion Ratio Lower Upper
75 100
77 1.6 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 52.100 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN080841.D
Acq: 31 Jan 2024 15:32

Tgt Ion: 75 Resp: 60195
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#

