

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061223\
 Data File : VN078163.D
 Acq On : 12 Jun 2023 13:53
 Operator : JC\MD
 Sample : PB153331TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB153331TB

Quant Time: Jun 13 01:31:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

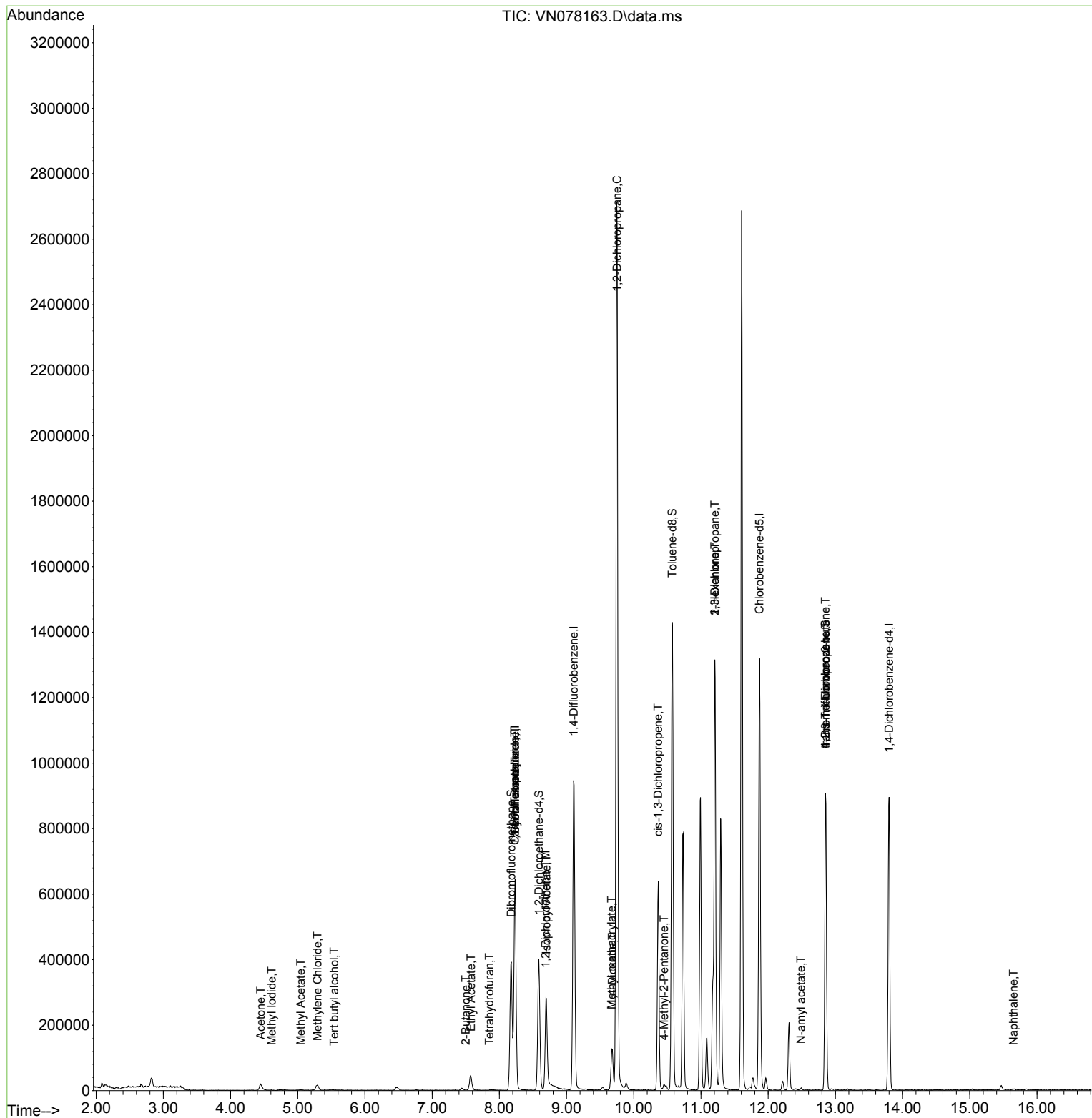
Internal Standards						
1) Pentafluorobenzene	8.235	168	454543	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	854453	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	776794	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	245643	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	323397	53.362	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.720%			
35) Dibromofluoromethane	8.177	113	279926	51.813	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.620%			
50) Toluene-d8	10.571	98	1038795	49.876	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.760%			
62) 4-Bromofluorobenzene	12.853	95	324746	50.156	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.320%			
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1138	Below Cal		94
10) Methyl Iodide	4.612	142	1550	0.228 ug/l #		66
11) Tert butyl alcohol	5.541	59	180	0.215 ug/l #		47
16) Acetone	4.447	43	34357	19.695 ug/l		89
18) Methyl Acetate	5.047	43	3873	0.482 ug/l #		67
20) Methylene Chloride	5.294	84	11927	2.069 ug/l		85
25) 2-Butanone	7.500	43	2891	1.078 ug/l		96
29) Tetrahydrofuran	7.853	42	486	0.271 ug/l #		53
31) Cyclohexane	8.235	56	11074	1.424 ug/l #		35
36) 1,1-Dichloropropene	8.229	75	39058	5.040 ug/l #		49
37) Ethyl Acetate	7.577	43	66117	10.922 ug/l		95
38) Carbon Tetrachloride	8.229	117	49003	5.989 ug/l #		14
42) 1,2-Dichloroethane	8.688	62	2792	0.352 ug/l #		73
43) Isopropyl Acetate	8.700	43	318244	27.488 ug/l #		83
45) 1,2-Dichloropropane	9.753	63	4012	0.697 ug/l #		45
48) Methyl methacrylate	9.671	41	8240	1.696 ug/l #		32
49) 1,4-Dioxane	9.682	88	125	1.224 ug/l #		1
51) 4-Methyl-2-Pentanone	10.453	43	10119	1.660 ug/l		95
54) cis-1,3-Dichloropropene	10.365	75	114838	12.666 ug/l #		69
57) 1,3-Dichloropropane	11.206	76	14724	1.579 ug/l #		43
59) 2-Hexanone	11.206	43	165119	38.897 ug/l #		47
74) N-amyl acetate	12.488	43	3289	0.430 ug/l #		43
75) 1,1,2,2-Tetrachloroethane	12.923	83	276	Below Cal		26
76) 1,2,3-Trichloropropane	12.853	75	173352	29.852 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	173352	91.714 ug/l #		15
94) Hexachlorobutadiene	15.506	225	463	Below Cal		89
95) Naphthalene	15.653	128	2402	0.225 ug/l #		76

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

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Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. 0.000 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

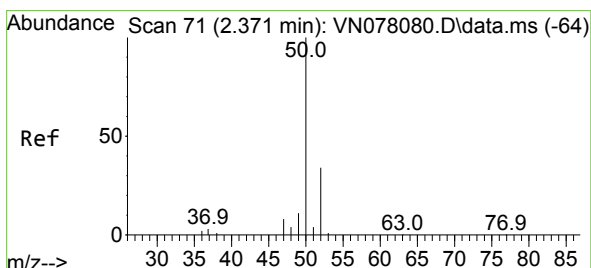
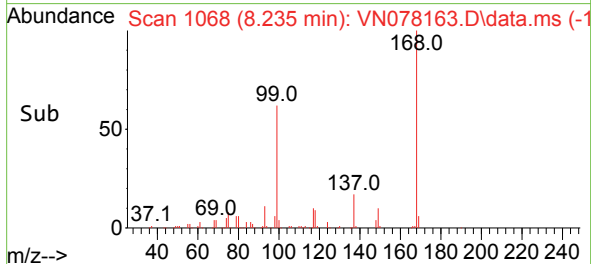
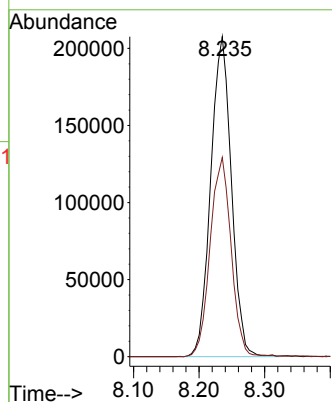
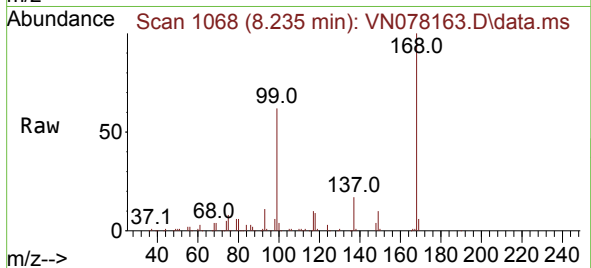
PB153331TB

Tgt Ion:168 Resp: 454543

Ion Ratio Lower Upper

168 100

99 62.2 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078163.D

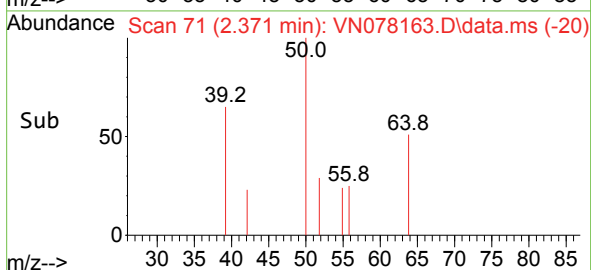
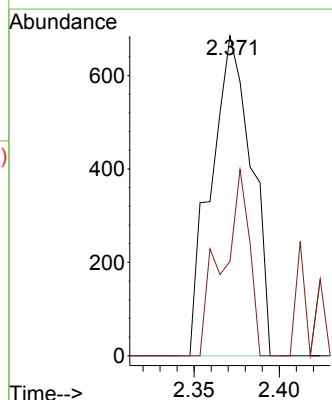
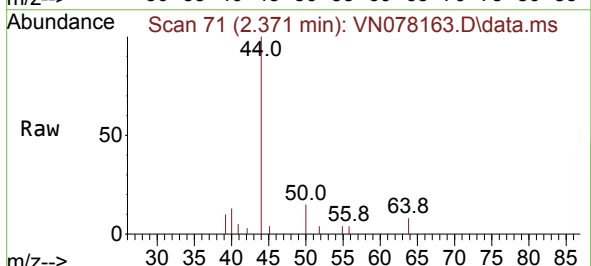
Acq: 12 Jun 2023 13:53

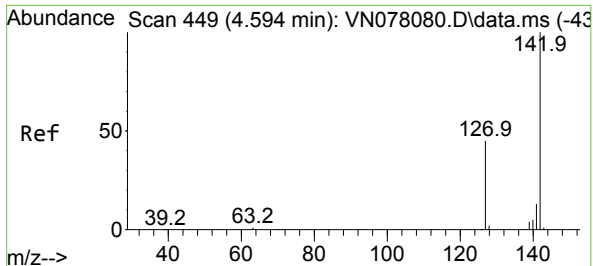
Tgt Ion: 50 Resp: 1138

Ion Ratio Lower Upper

50 100

52 29.5 26.5 39.7

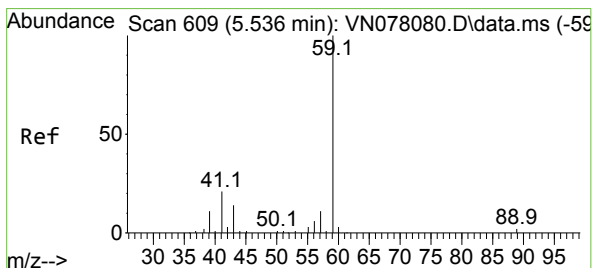
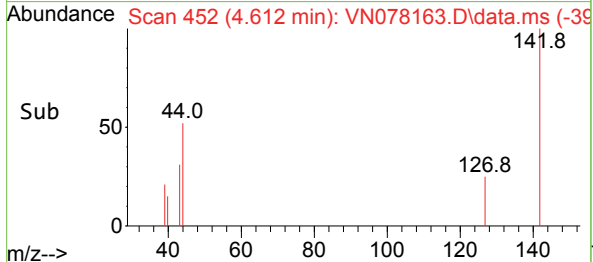
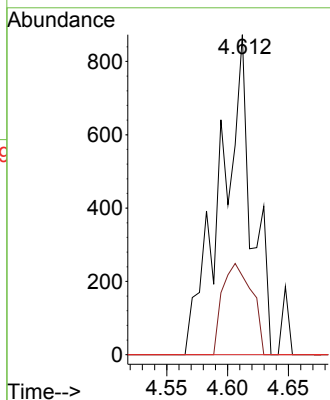
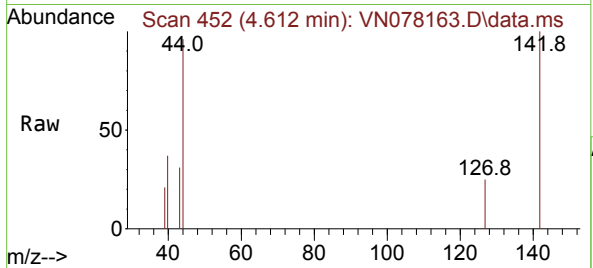




#10
Methyl Iodide
Concen: 0.228 ug/l
RT: 4.612 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

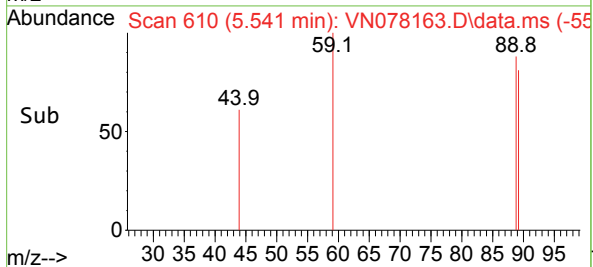
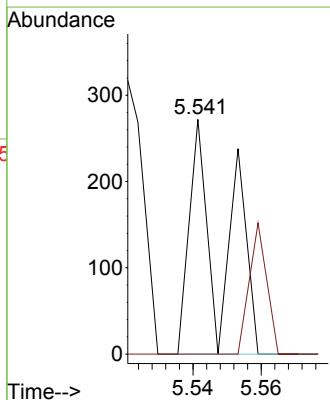
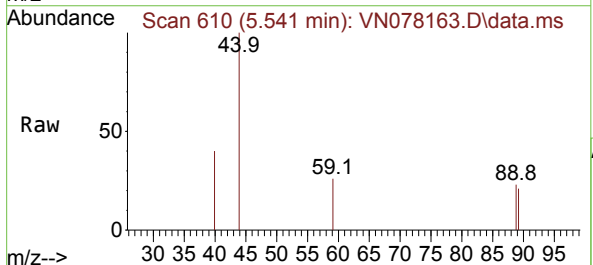
Instrument :
MSVOA_N
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PB153331TB

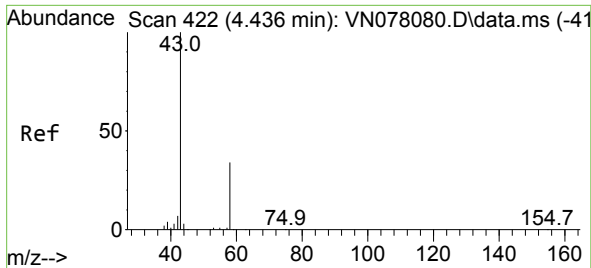
Tgt Ion:142 Resp: 1550
Ion Ratio Lower Upper
142 100
127 24.6 37.6 56.4#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.215 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

Tgt Ion: 59 Resp: 180
Ion Ratio Lower Upper
59 100
57 30.0 8.2 12.4#

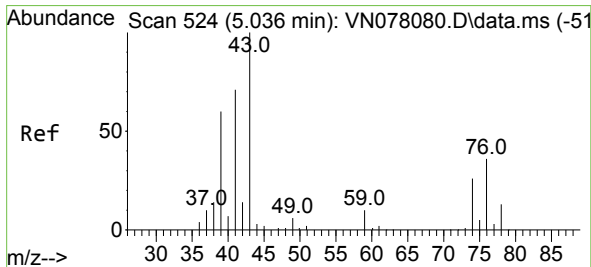
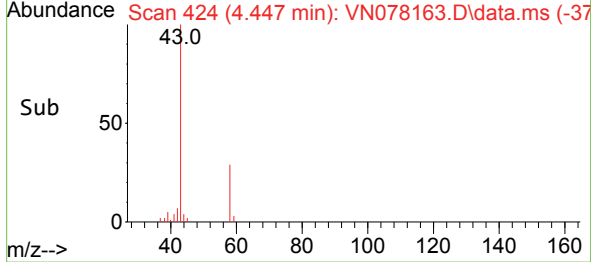
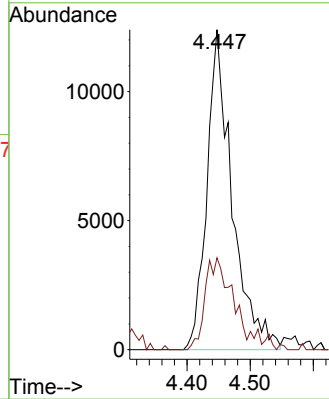
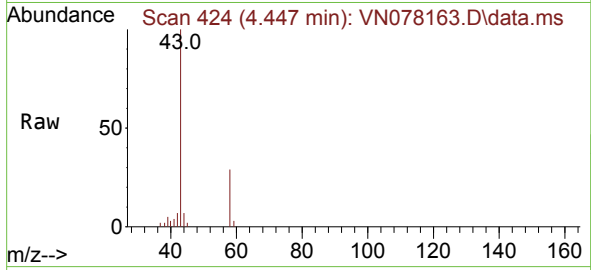




#16
Acetone
Concen: 19.695 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

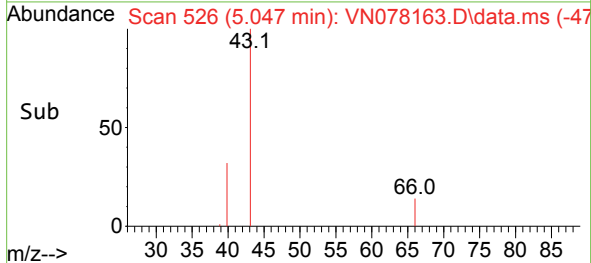
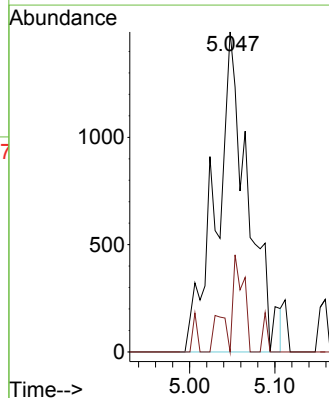
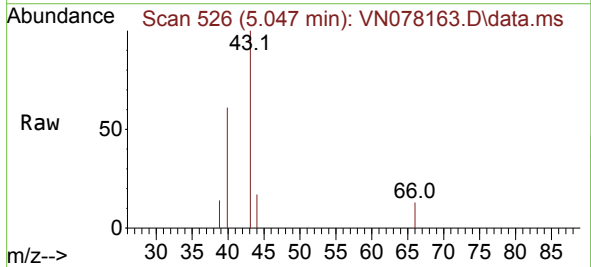
Instrument :
MSVOA_N
ClientSampleId :
PB153331TB

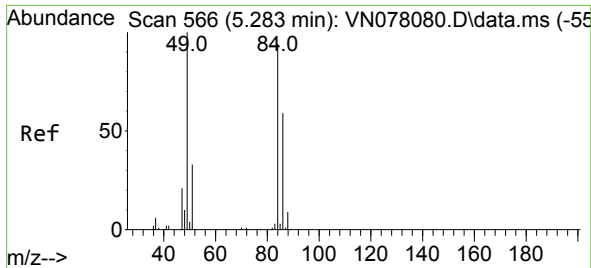
Tgt Ion: 43 Resp: 34357
Ion Ratio Lower Upper
43 100
58 28.7 28.0 42.0



#18
Methyl Acetate
Concen: 0.482 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

Tgt Ion: 43 Resp: 3873
Ion Ratio Lower Upper
43 100
74 14.4 26.2 39.4#

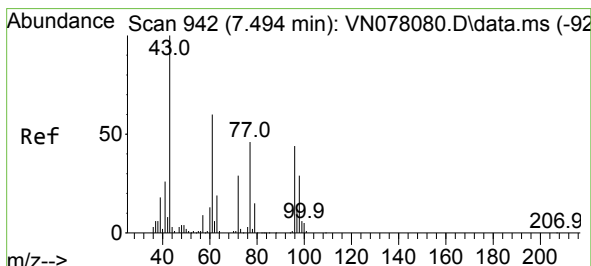
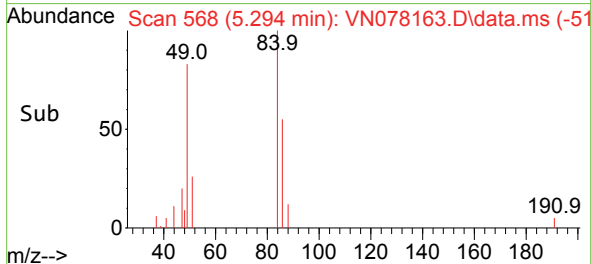
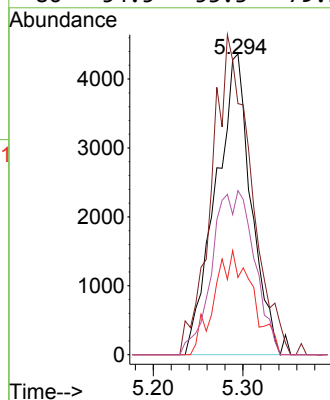
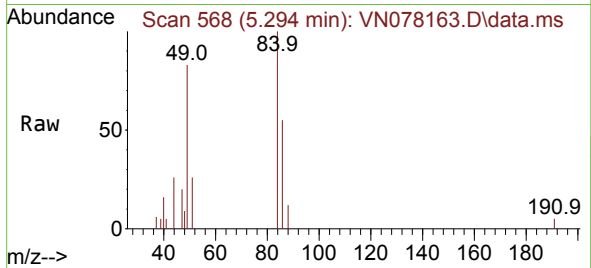




#20
Methylene Chloride
Concen: 2.069 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

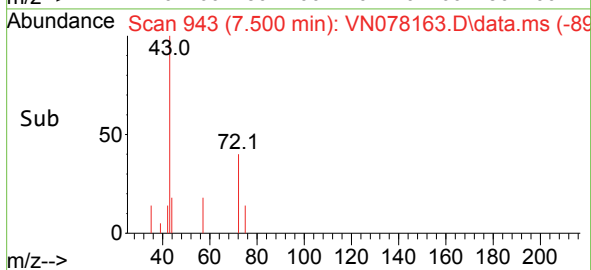
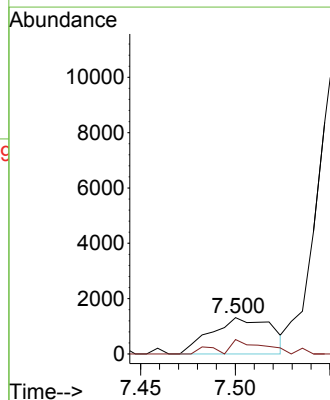
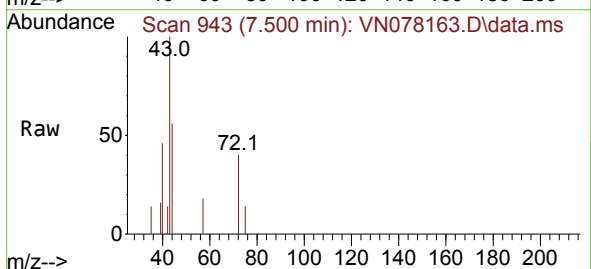
Instrument :
MSVOA_N
ClientSampleId :
PB153331TB

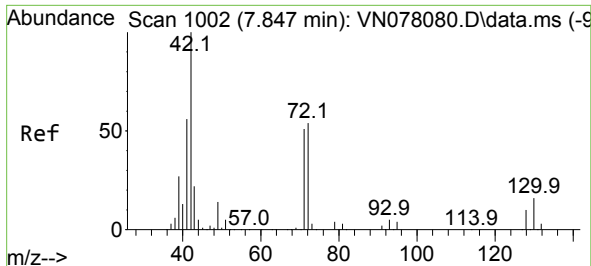
Tgt Ion: 84	Resp: 11927
Ion Ratio	Lower Upper
84 100	
49 83.5	79.7 119.5
51 25.7	25.2 37.8
86 54.5	53.3 79.9



#25
2-Butanone
Concen: 1.078 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

Tgt Ion: 43	Resp: 2891
Ion Ratio	Lower Upper
43 100	
72 39.9	30.2 45.2





#29

Tetrahydrofuran

Concen: 0.271 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.006 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

PB153331TB

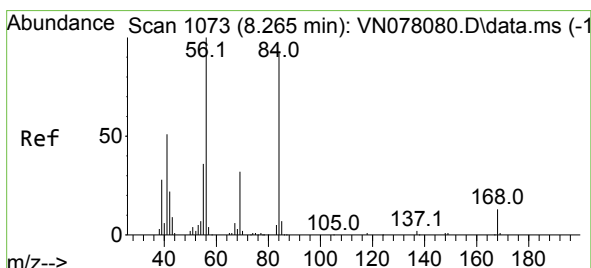
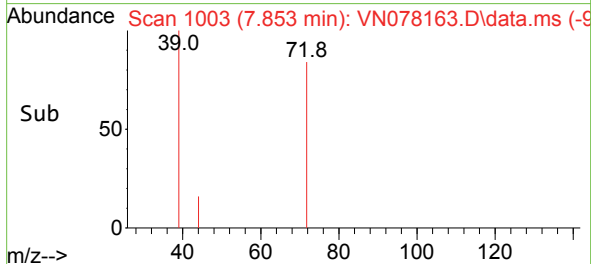
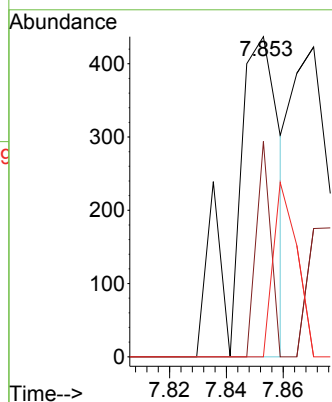
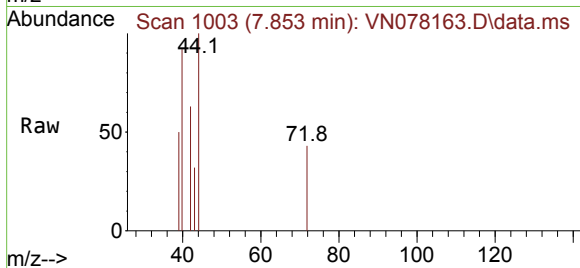
Tgt Ion: 42 Resp: 486

Ion Ratio Lower Upper

42 100

72 21.4 49.8 74.6#

71 28.4 47.4 71.2#



#31

Cyclohexane

Concen: 1.424 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.029 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

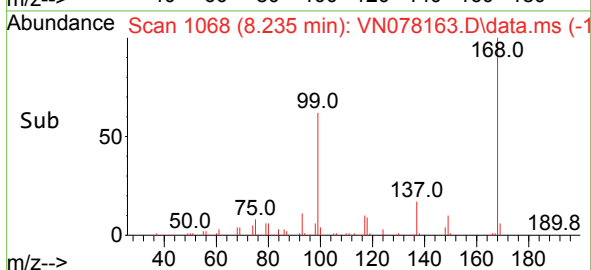
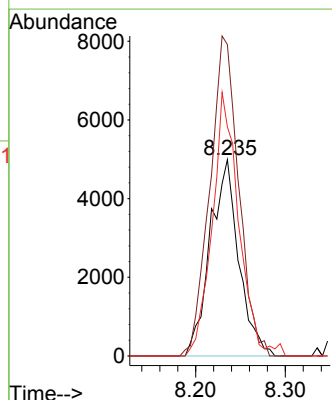
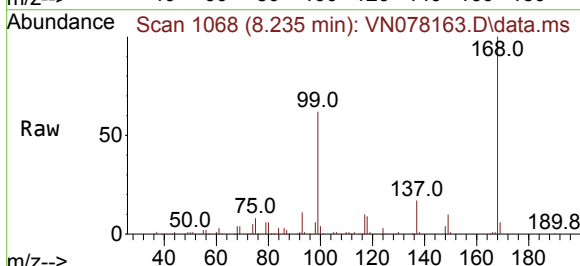
Tgt Ion: 56 Resp: 11074

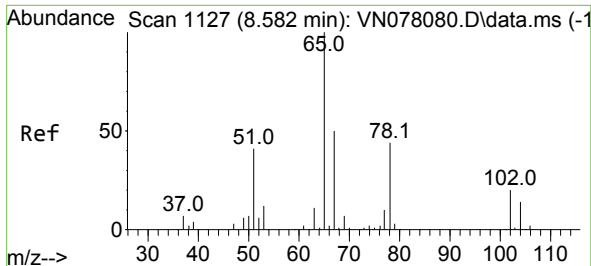
Ion Ratio Lower Upper

56 100

69 158.5 26.8 40.2#

84 116.6 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 53.362 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

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ClientSampleId :

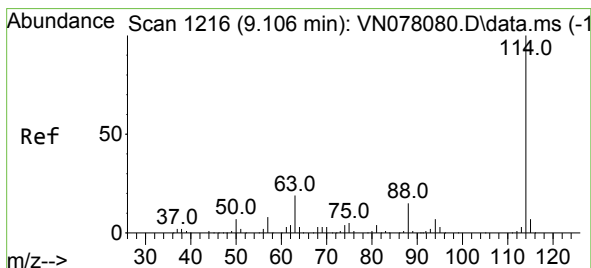
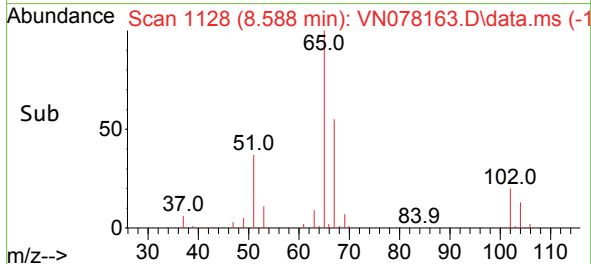
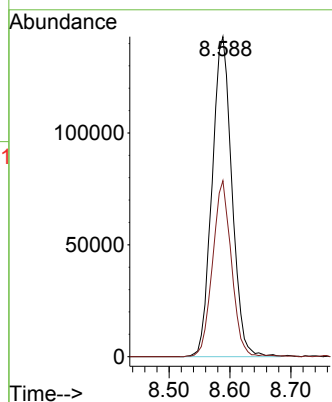
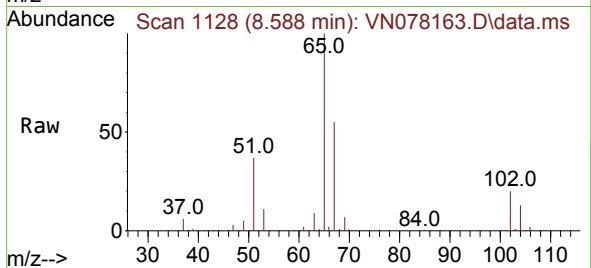
PB153331TB

Tgt Ion: 65 Resp: 323397

Ion Ratio Lower Upper

65 100

67 52.0 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

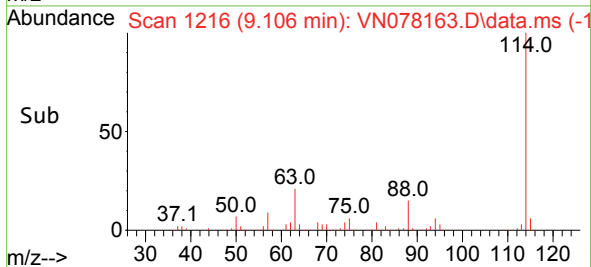
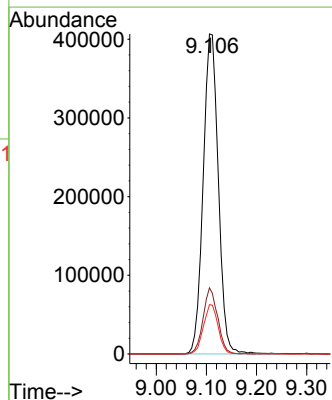
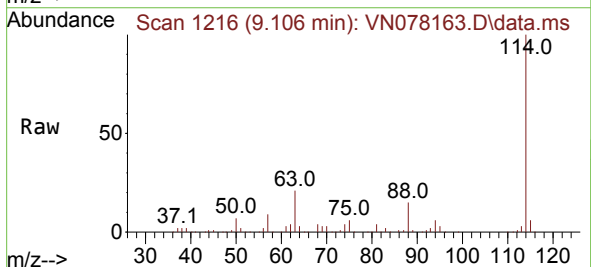
Tgt Ion: 114 Resp: 854453

Ion Ratio Lower Upper

114 100

63 20.7 0.0 36.4

88 15.4 0.0 30.6

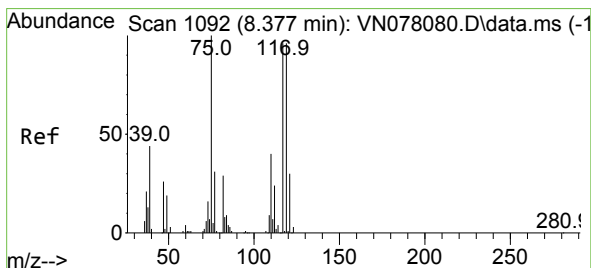
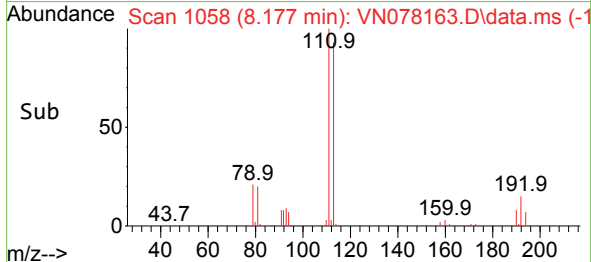
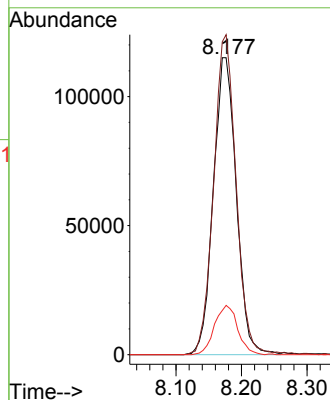
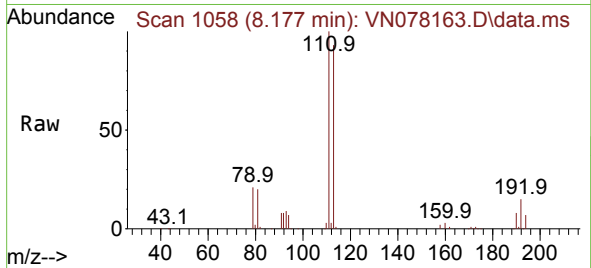




#35
Dibromofluoromethane
Concen: 51.813 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

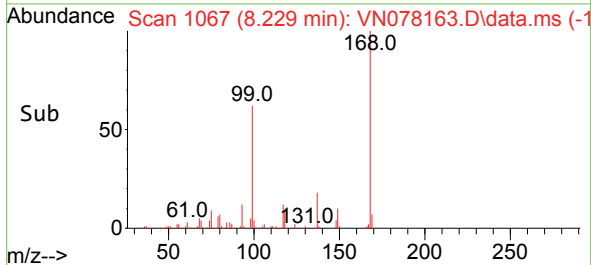
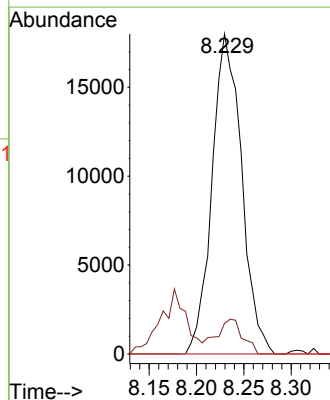
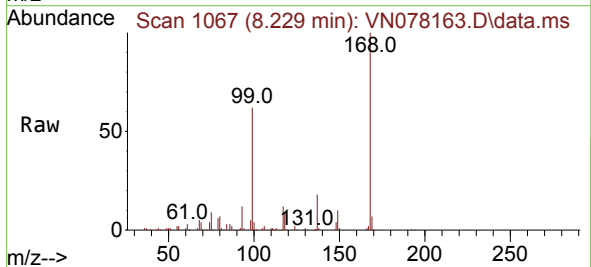
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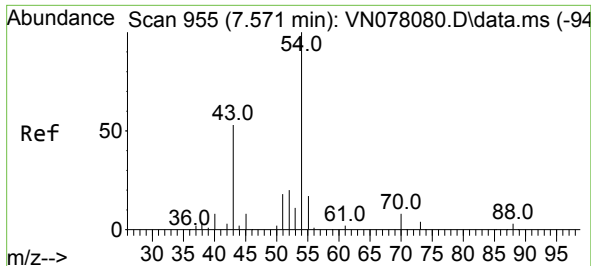
Tgt Ion:113 Resp: 279926
Ion Ratio Lower Upper
113 100
111 105.3 82.6 123.8
192 16.7 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.040 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

Tgt Ion: 75 Resp: 39058
Ion Ratio Lower Upper
75 100
110 9.7 19.1 57.3#
77 0.0 25.0 37.4#

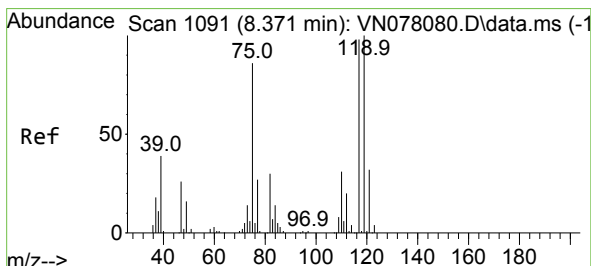
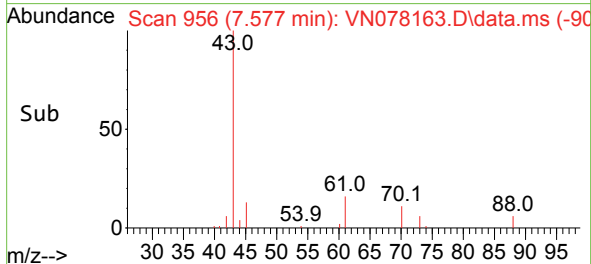
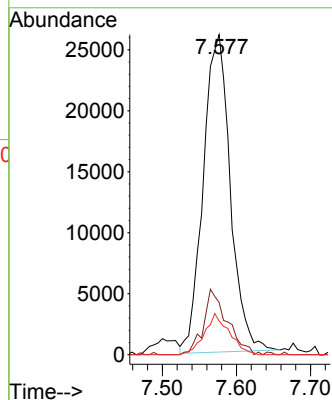
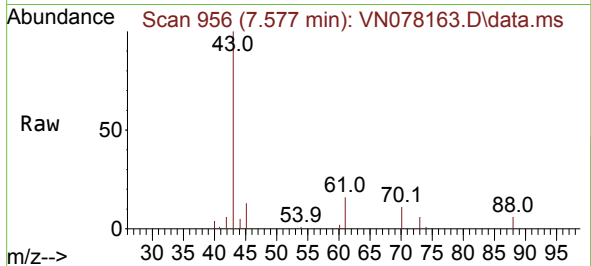




#37
Ethyl Acetate
Concen: 10.922 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

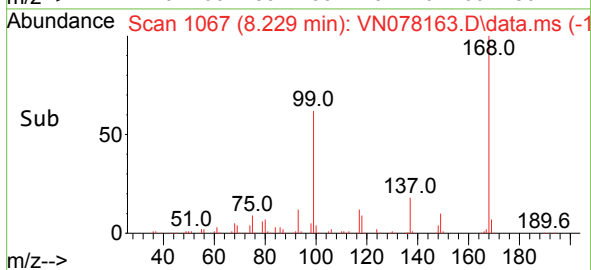
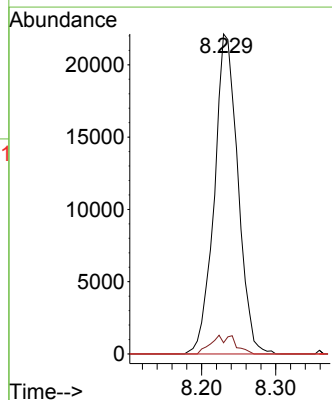
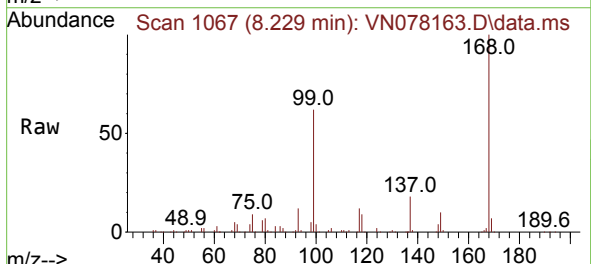
Instrument :
MSVOA_N
ClientSampleId :
PB153331TB

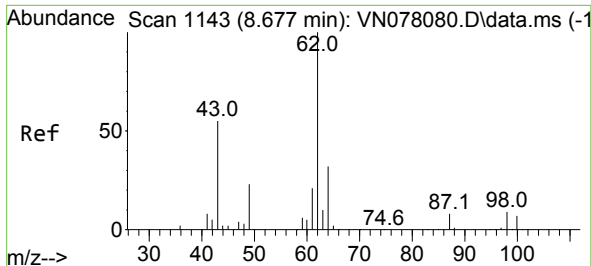
Tgt Ion:	43	Resp:	66117
Ion	Ratio	Lower	Upper
43	100		
61	18.1	13.2	19.8
70	11.9	11.3	16.9



#38
Carbon Tetrachloride
Concen: 5.989 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

Tgt Ion:	117	Resp:	49003
Ion	Ratio	Lower	Upper
117	100		
119	3.5	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.352 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.012 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

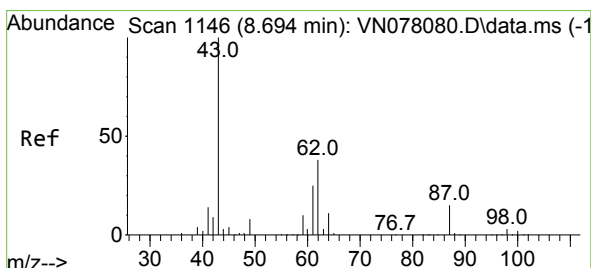
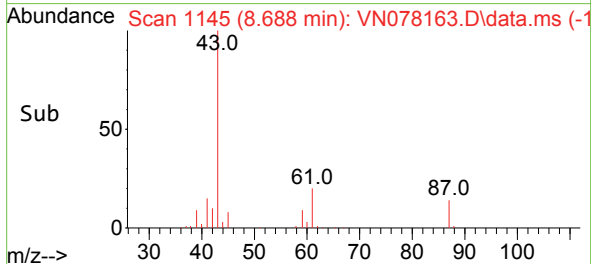
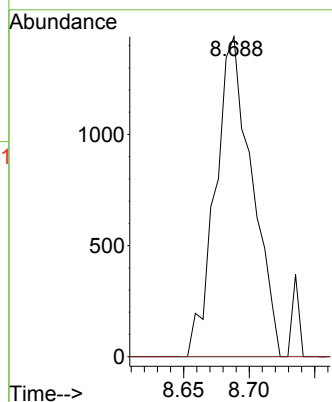
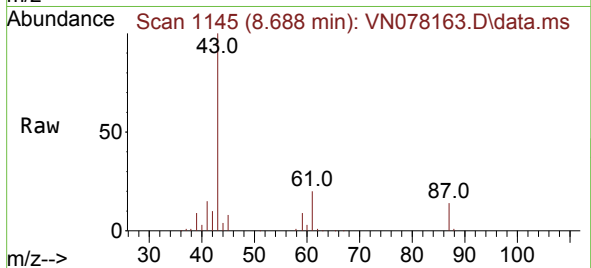
PB153331TB

Tgt Ion: 62 Resp: 2792

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 27.488 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

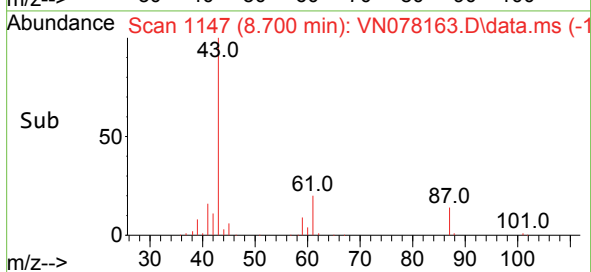
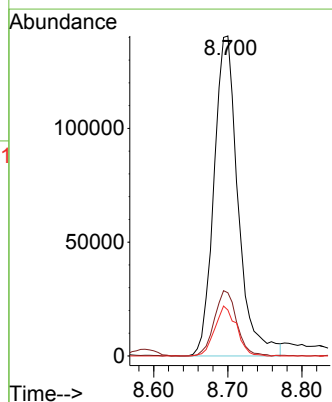
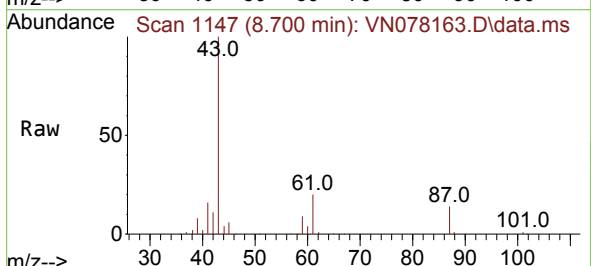
Tgt Ion: 43 Resp: 318244

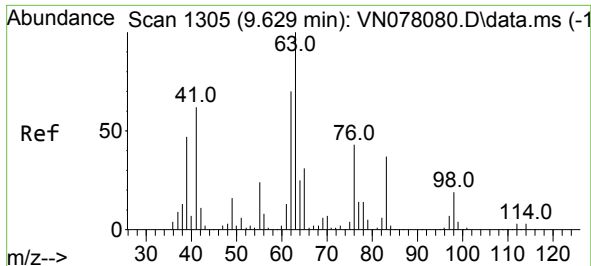
Ion Ratio Lower Upper

43 100

61 18.9 24.7 37.1#

87 14.0 14.6 21.8#

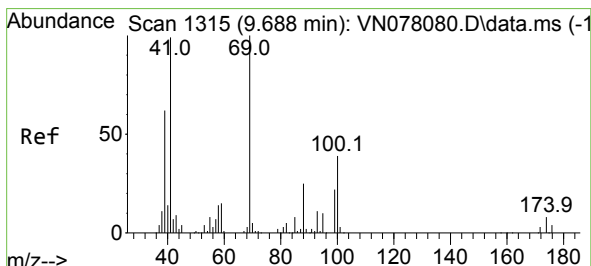
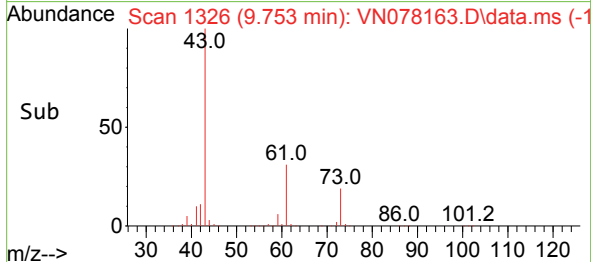
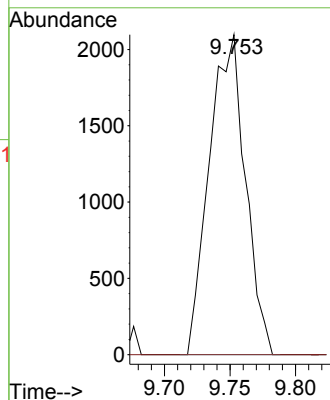
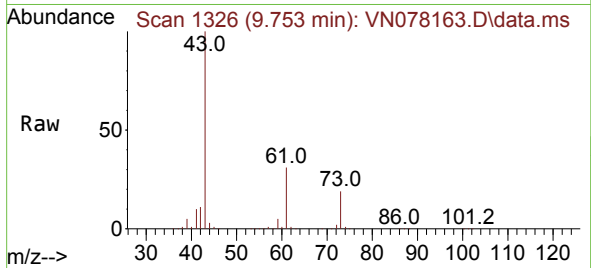




#45
1,2-Dichloropropane
Concen: 0.697 ug/l
RT: 9.753 min Scan# 1312
Delta R.T. 0.123 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

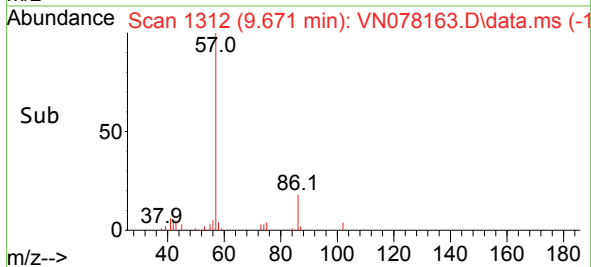
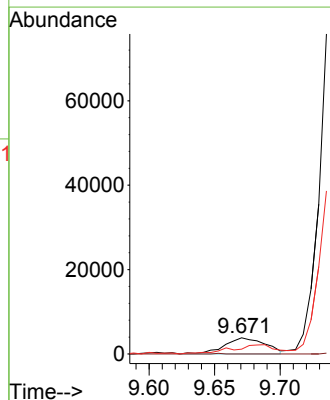
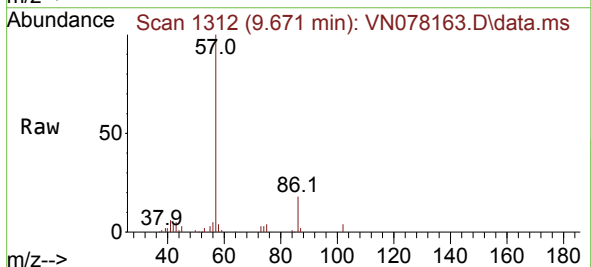
Instrument :
MSVOA_N
ClientSampleId :
PB153331TB

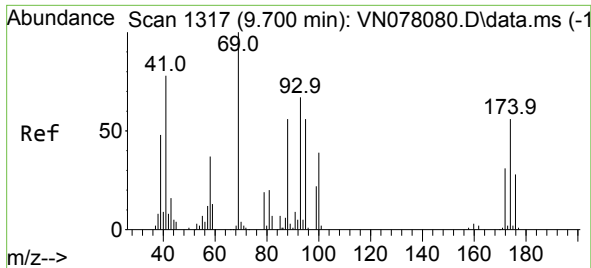
Tgt Ion: 63 Resp: 4012
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 1.696 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

Tgt Ion: 41 Resp: 8240
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 62.8 54.6 81.8

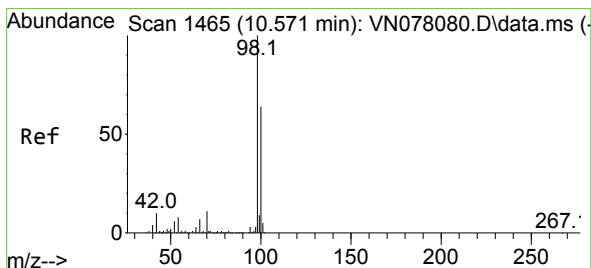
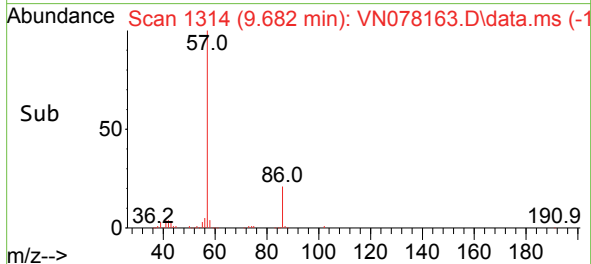
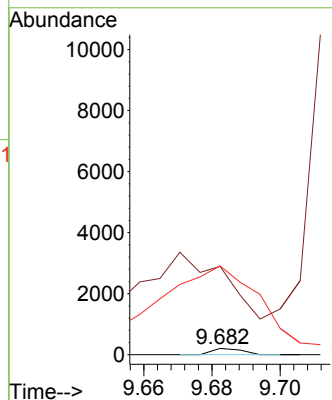
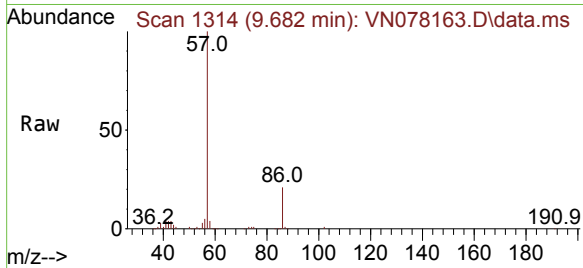




#49
1,4-Dioxane
Concen: 1.224 ug/l
RT: 9.682 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

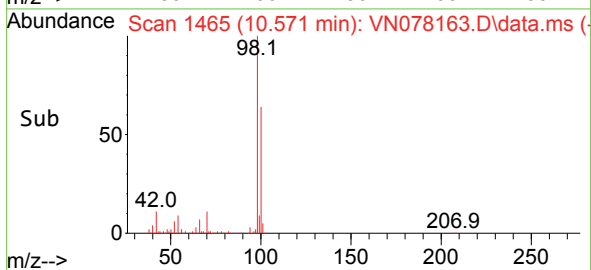
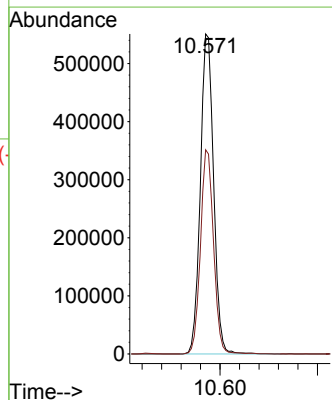
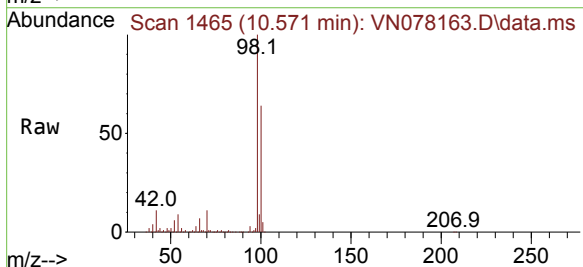
Instrument :
MSVOA_N
ClientSampleId :
PB153331TB

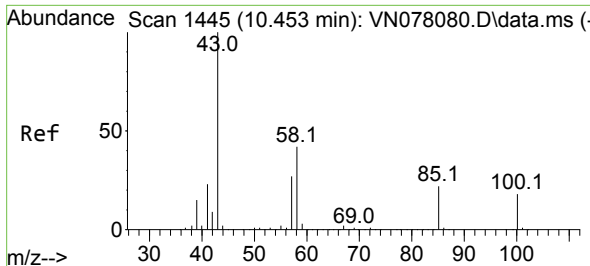
Tgt Ion: 88 Resp: 125
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 5387.2 47.0 70.4#



#50
Toluene-d8
Concen: 49.876 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

Tgt Ion: 98 Resp: 1038795
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 1.660 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. -0.000 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

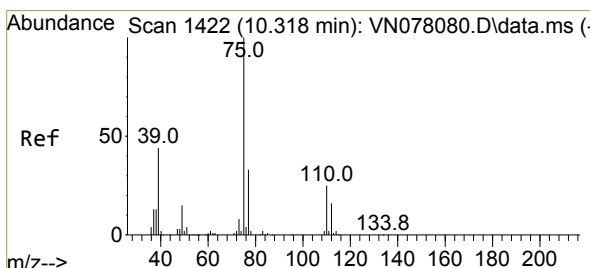
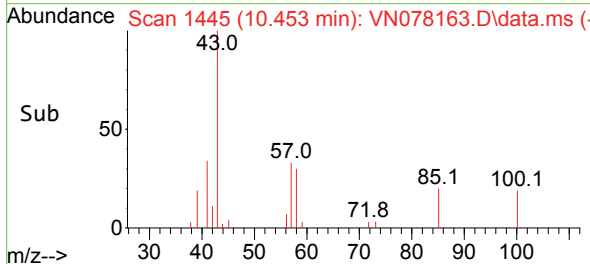
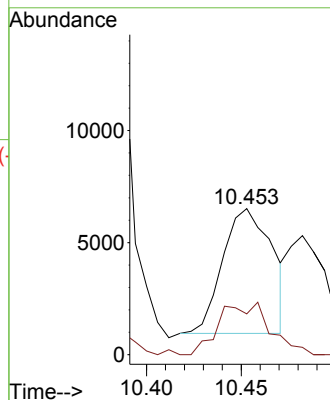
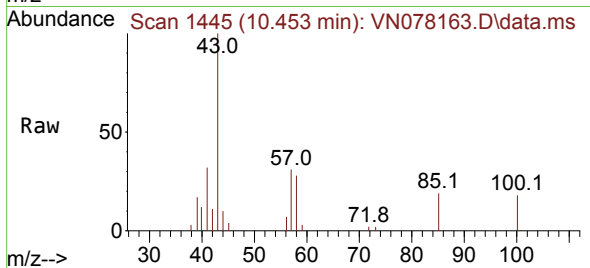
PB153331TB

Tgt Ion: 43 Resp: 10119

Ion Ratio Lower Upper

43 100

58 42.7 36.6 54.8



#54

cis-1,3-Dichloropropene

Concen: 12.666 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

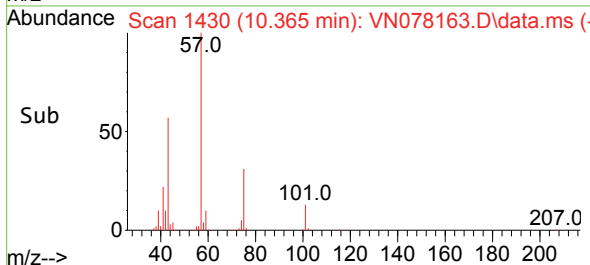
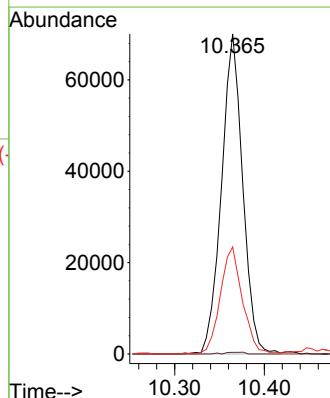
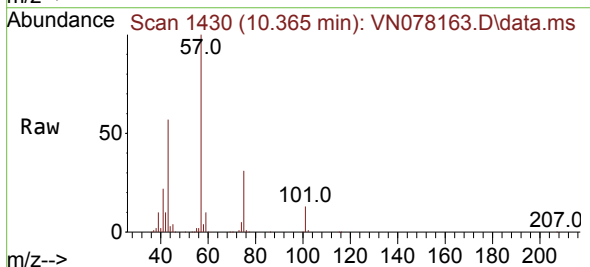
Tgt Ion: 75 Resp: 114838

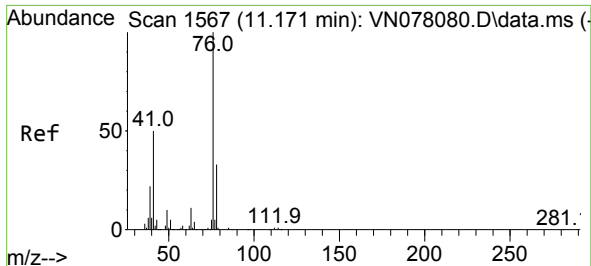
Ion Ratio Lower Upper

75 100

77 0.5 26.1 39.1#

39 33.5 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.579 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

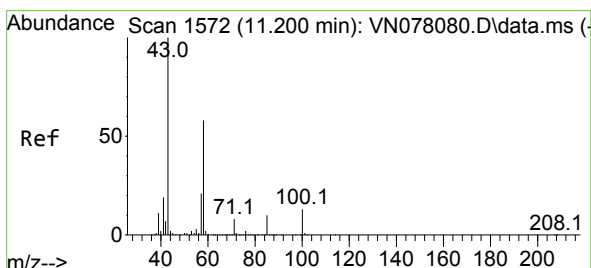
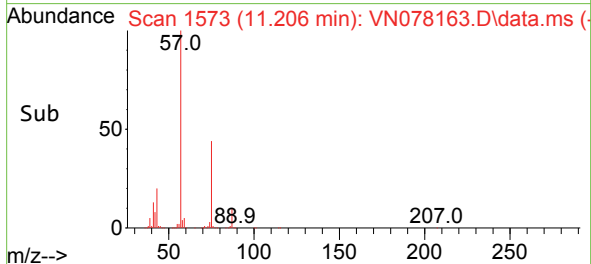
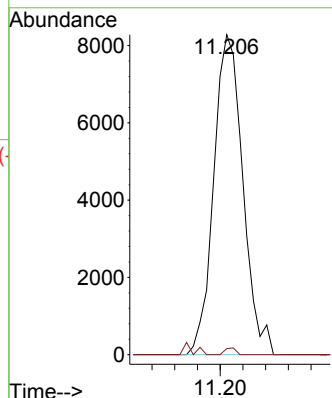
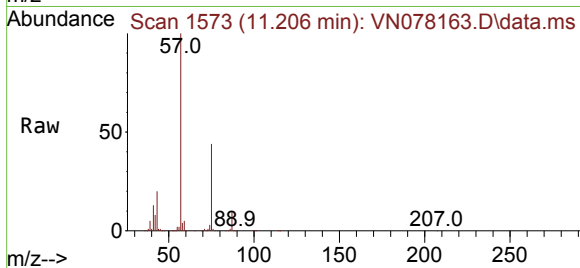
PB153331TB

Tgt Ion: 76 Resp: 14724

Ion Ratio Lower Upper

76 100

78 0.8 26.1 39.1#



#59

2-Hexanone

Concen: 38.897 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN078163.D

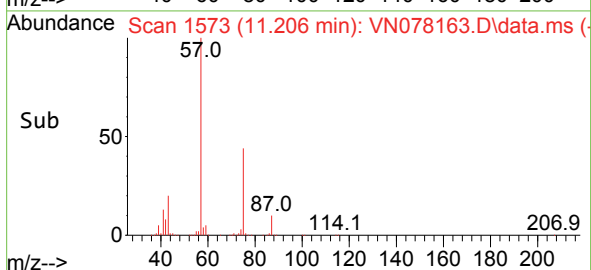
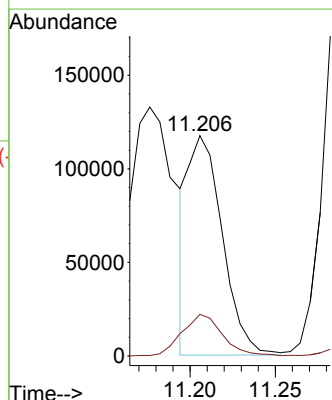
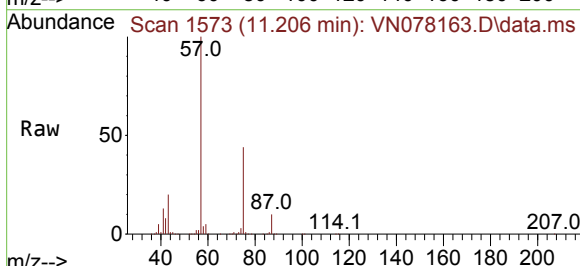
Acq: 12 Jun 2023 13:53

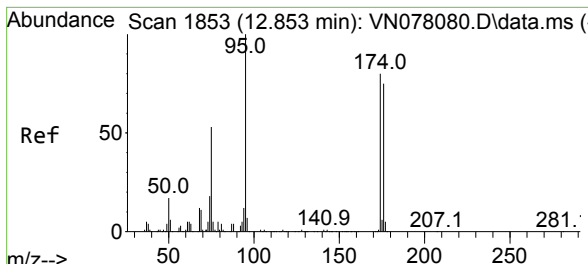
Tgt Ion: 43 Resp: 165119

Ion Ratio Lower Upper

43 100

58 22.5 31.7 95.1#

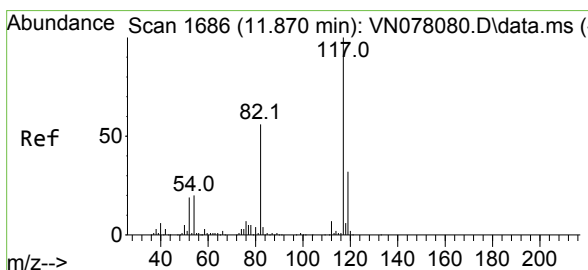
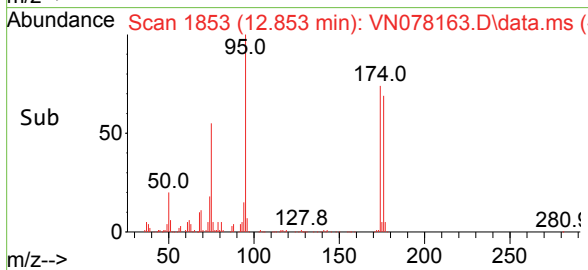
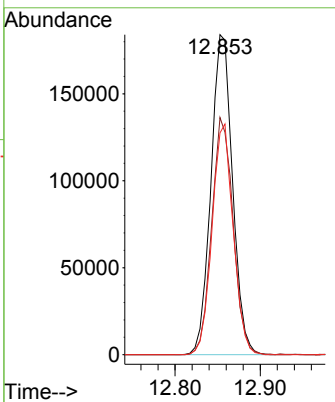
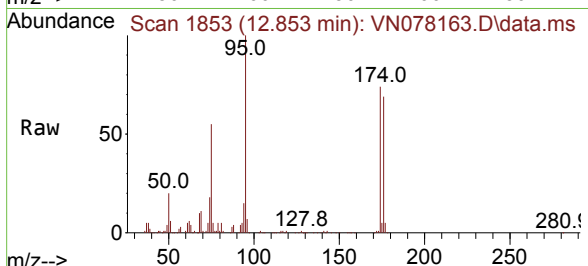




#62
 4-Bromofluorobenzene
 Concen: 50.156 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078163.D
 Acq: 12 Jun 2023 13:53

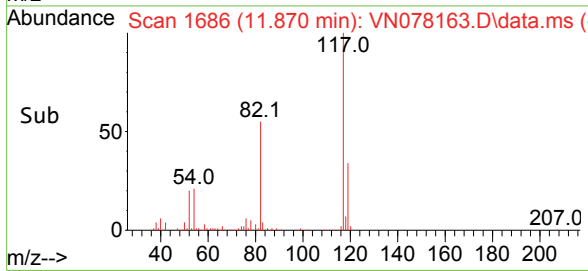
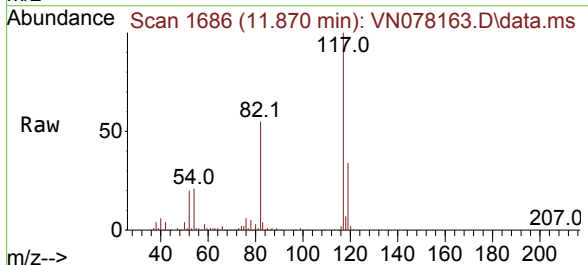
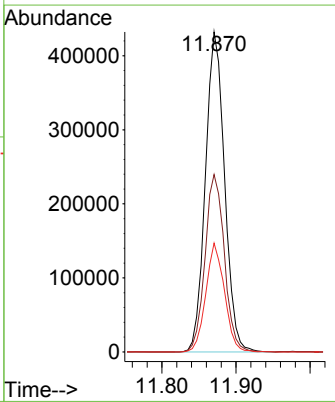
Instrument :
 MSVOA_N
 ClientSampleId :
 PB153331TB

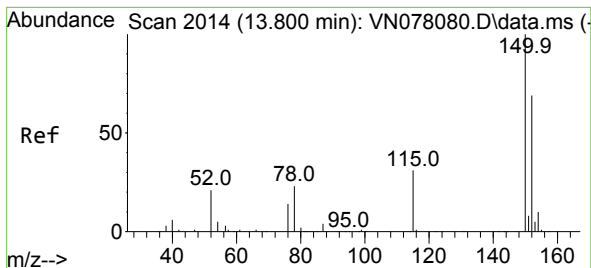
Tgt Ion:	95	Resp:	324746
Ion Ratio	Lower	Upper	
95	100		
174	73.4	0.0	143.8
176	70.5	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN078163.D
 Acq: 12 Jun 2023 13:53

Tgt Ion:	117	Resp:	776794
Ion Ratio	Lower	Upper	
117	100		
82	55.4	44.0	66.0
119	34.0	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

PB153331TB

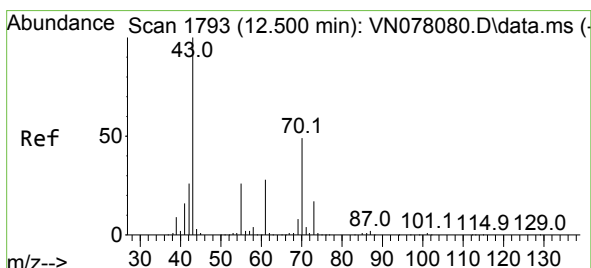
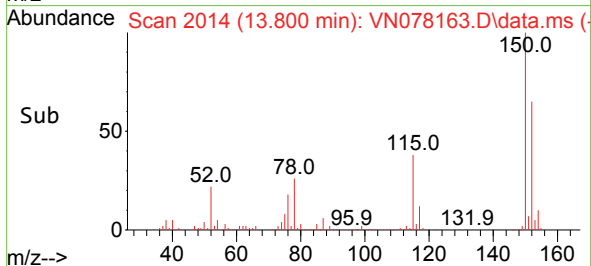
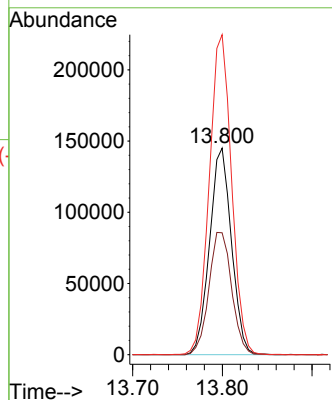
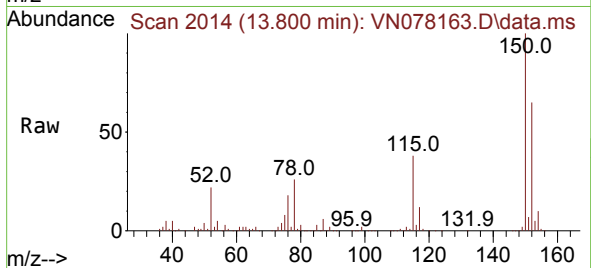
Tgt Ion:152 Resp: 245643

Ion Ratio Lower Upper

152 100

115 61.6 32.3 96.8

150 157.7 0.0 355.8



#74

N-ethyl acetate

Concen: 0.430 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.012 min

Lab File: VN078163.D

Acq: 12 Jun 2023 13:53

Tgt Ion: 43 Resp: 3289

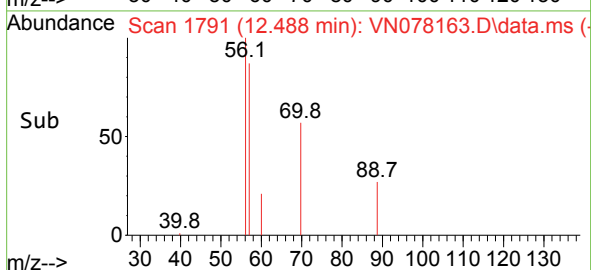
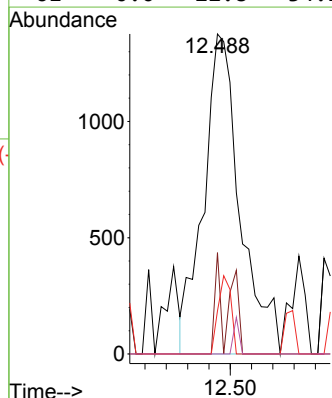
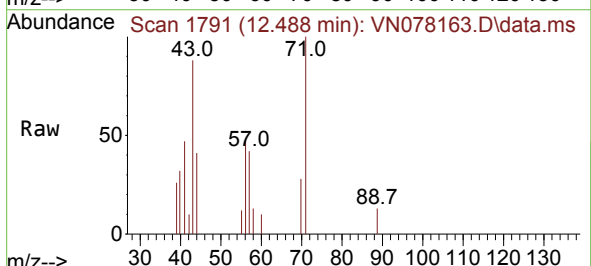
Ion Ratio Lower Upper

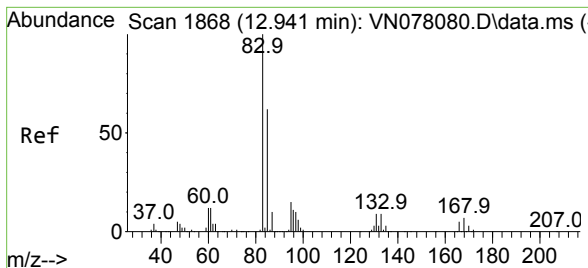
43 100

70 4.7 43.4 65.2#

55 8.6 21.4 32.0#

61 0.0 22.8 34.2#

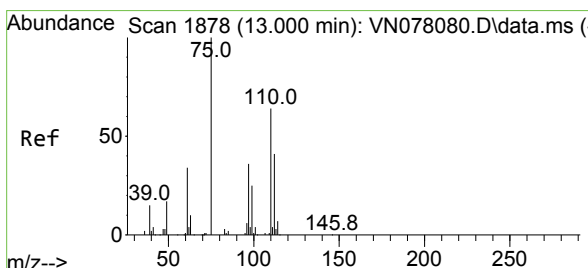
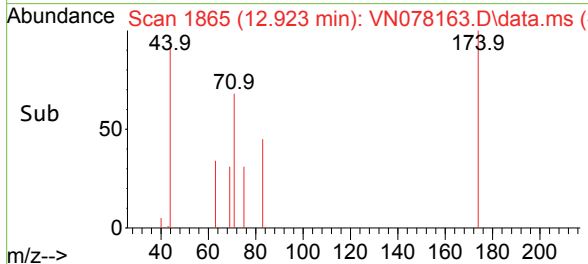
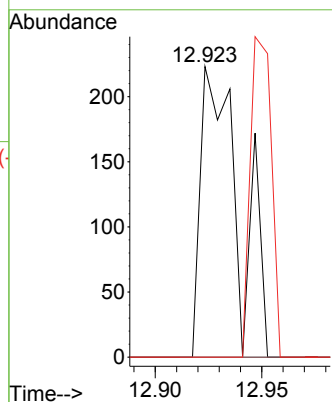
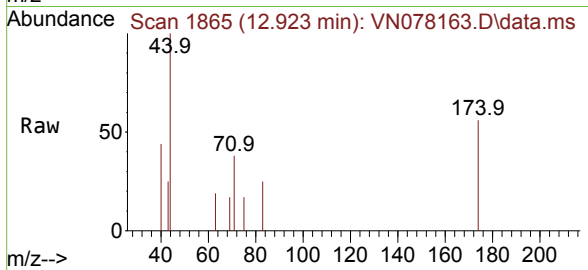




#75
1,1,2-Tetrachloroethane
Concen: Below Cal
RT: 12.923 min Scan# 1865
Delta R.T. -0.018 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

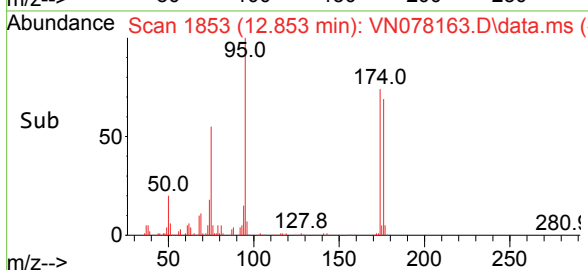
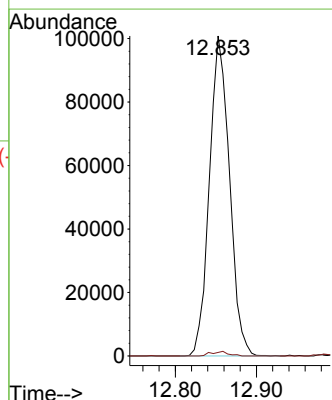
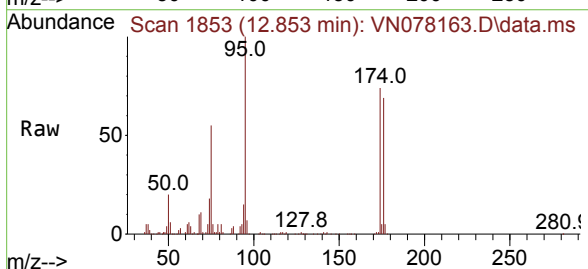
Instrument :
MSVOA_N
ClientSampleId :
PB153331TB

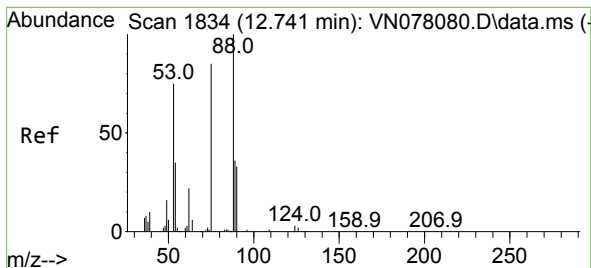
Tgt Ion: 83 Resp: 276
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 29.852 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

Tgt Ion: 75 Resp: 173352
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#

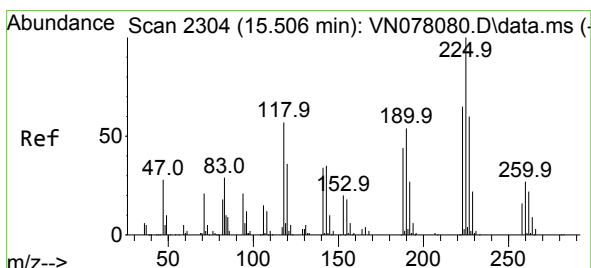
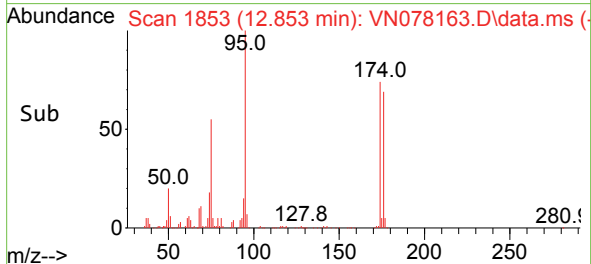
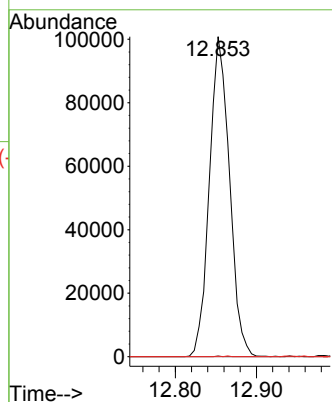
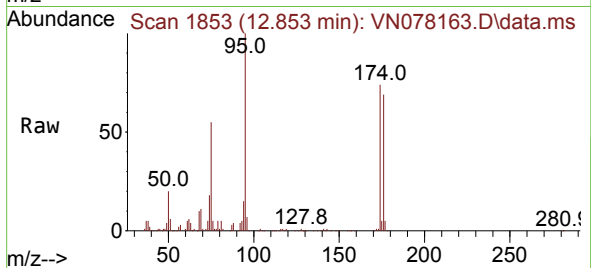




#81
trans-1,4-Dichloro-2-butene
Concen: 91.714 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

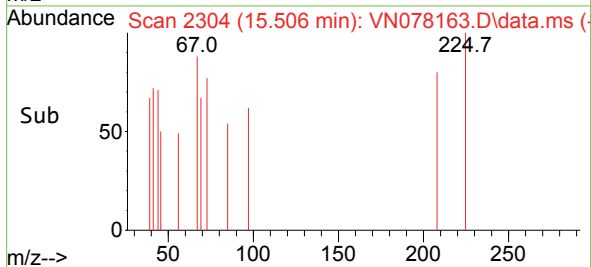
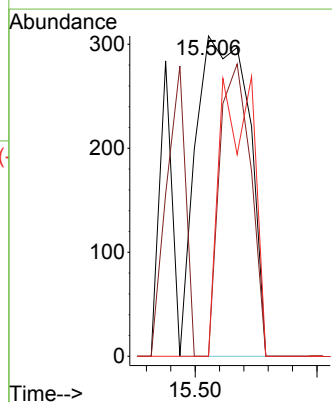
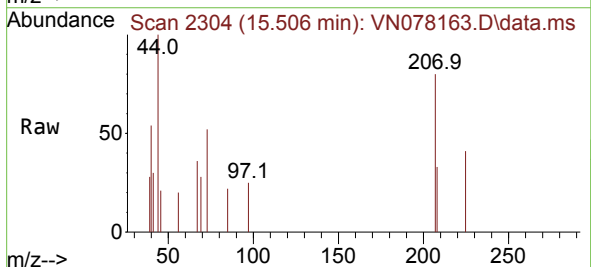
Instrument :
MSVOA_N
ClientSampleId :
PB153331TB

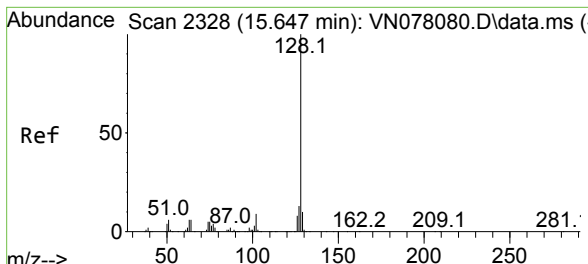
Tgt Ion: 75 Resp: 173352
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 2304
Delta R.T. -0.001 min
Lab File: VN078163.D
Acq: 12 Jun 2023 13:53

Tgt Ion: 225 Resp: 463
Ion Ratio Lower Upper
225 100
223 53.6 31.3 93.8
227 55.7 31.9 95.9





#95
 Naphthalene
 Concen: 0.225 ug/l
 RT: 15.653 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN078163.D
 Acq: 12 Jun 2023 13:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB153331TB

Tgt Ion:	128	Resp:	2402
Ion	Ratio	Lower	Upper
128	100		
127	2.4	10.0	15.0#
129	2.9	8.7	13.1#

