

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078324.D
 Acq On : 21 Jun 2023 15:58
 Operator : JC\MD
 Sample : PB153609TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB153609TB

Quant Time: Jun 22 04:50:48 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)

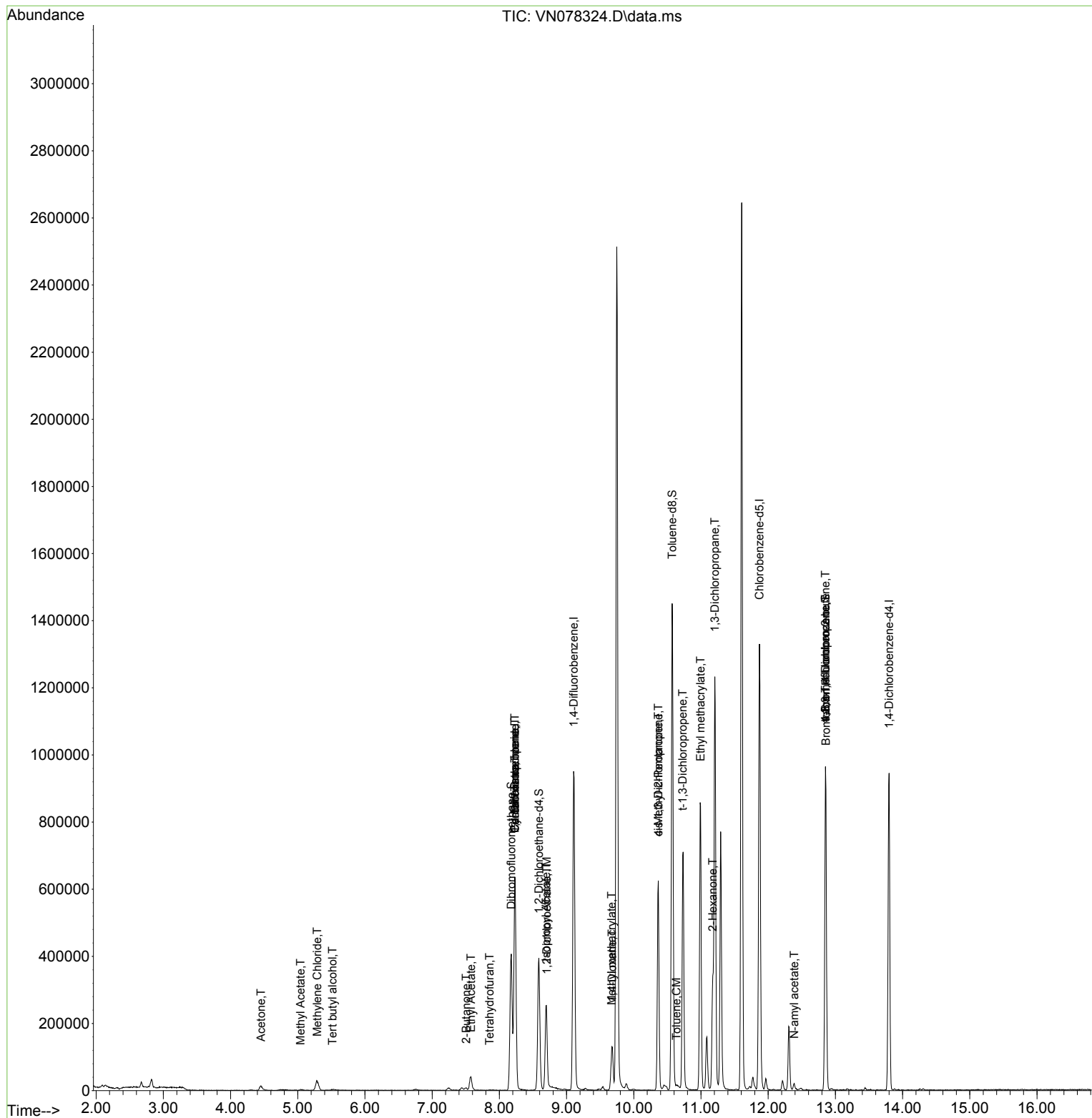
Internal Standards						
1) Pentafluorobenzene	8.230	168	455552	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	844453	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	803236	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	262200	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	324884	53.489	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.980%			
35) Dibromofluoromethane	8.177	113	294956	55.242	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.480%			
50) Toluene-d8	10.571	98	1026852	49.886	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.780%			
62) 4-Bromofluorobenzene	12.853	95	336176	52.536	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.080%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1135	Below Cal	#	76
11) Tert butyl alcohol	5.518	59	1125	1.341	ug/l #	72
16) Acetone	4.453	43	24168	13.824	ug/l	92
18) Methyl Acetate	5.042	43	2257	0.280	ug/l	97
20) Methylene Chloride	5.289	84	21287	3.685	ug/l #	76
25) 2-Butanone	7.506	43	10139	3.771	ug/l #	79
29) Tetrahydrofuran	7.853	42	763	0.425	ug/l #	29
31) Cyclohexane	8.230	56	10158	1.304	ug/l #	41
36) 1,1-Dichloropropene	8.230	75	38562	5.035	ug/l #	49
37) Ethyl Acetate	7.577	43	61278	10.242	ug/l	96
38) Carbon Tetrachloride	8.230	117	50870	6.290	ug/l #	14
42) 1,2-Dichloroethane	8.706	62	2312	0.295	ug/l #	73
43) Isopropyl Acetate	8.694	43	284482	24.863	ug/l #	85
48) Methyl methacrylate	9.671	41	8626	1.796	ug/l #	32
49) 1,4-Dioxane	9.677	88	63	0.624	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	219914	36.498	ug/l #	41
52) Toluene	10.635	92	3571	0.247	ug/l	82
53) t-1,3-Dichloropropene	10.729	75	2272	0.280	ug/l #	85
54) cis-1,3-Dichloropropene	10.365	75	110951	12.382	ug/l #	68
56) Ethyl methacrylate	10.994	69	3365	0.423	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	14337	1.555	ug/l #	42
59) 2-Hexanone	11.176	43	260008	61.975	ug/l #	19
71) Bromoform	12.859	173	2731	0.669	ug/l #	1
74) N-amyl acetate	12.388	43	2088	0.256	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	13.006	83	53	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	181446	29.273	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	181446	89.934	ug/l #	15

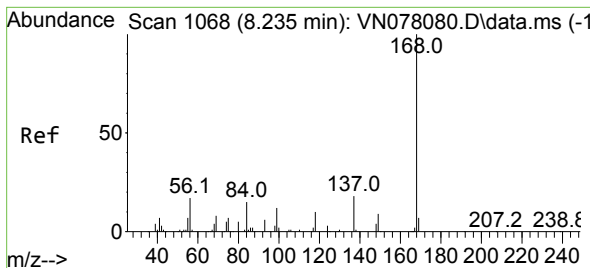
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 8.230 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN078324.D

Acq: 21 Jun 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

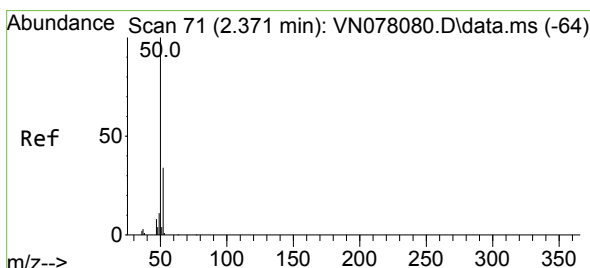
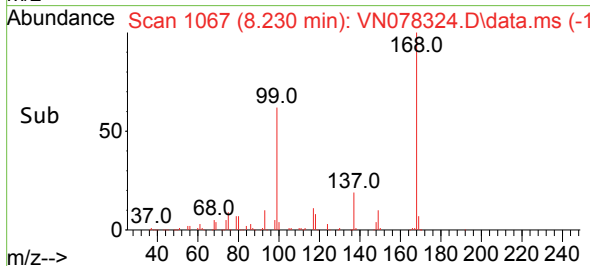
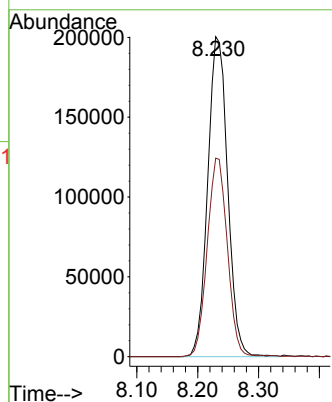
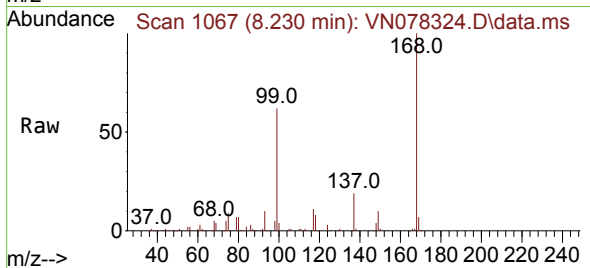
PB153609TB

Tgt Ion:168 Resp: 455552

Ion Ratio Lower Upper

168 100

99 62.0 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078324.D

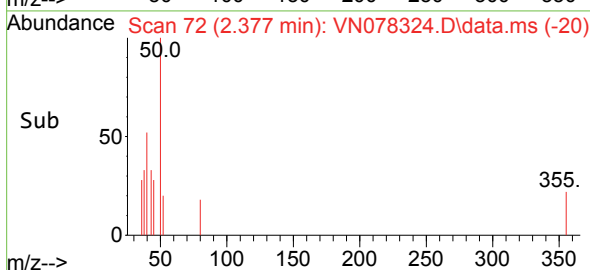
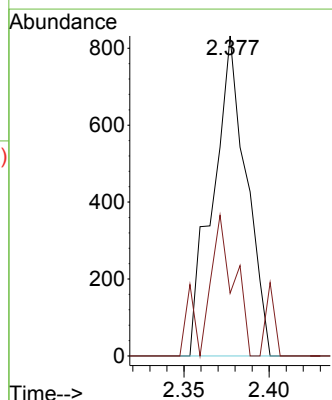
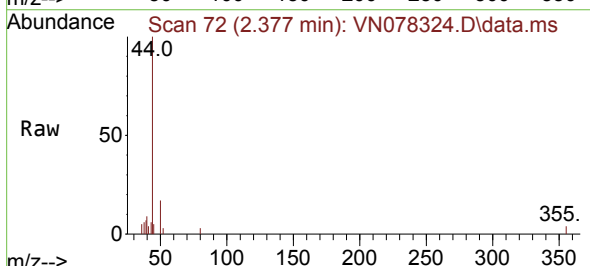
Acq: 21 Jun 2023 15:58

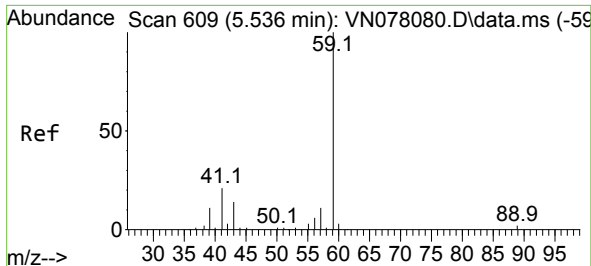
Tgt Ion: 50 Resp: 1135

Ion Ratio Lower Upper

50 100

52 19.6 26.5 39.7#

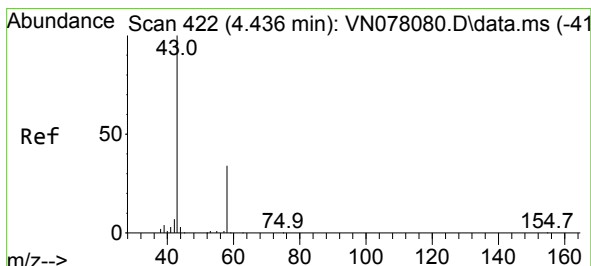
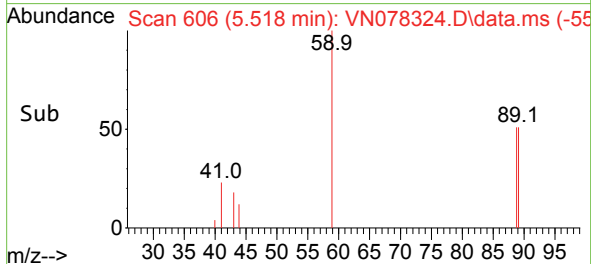
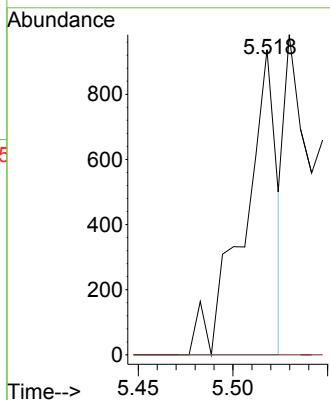
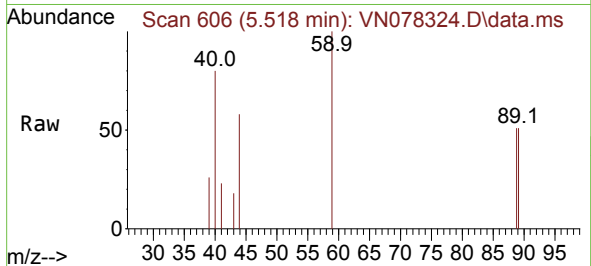




#11
Tert butyl alcohol
Concen: 1.341 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

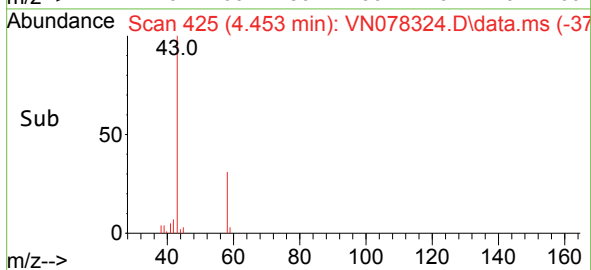
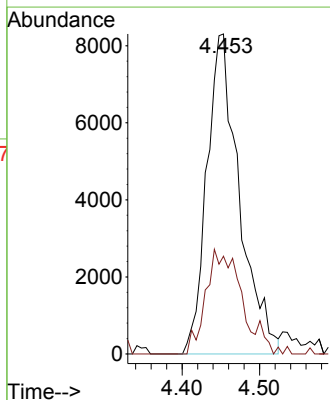
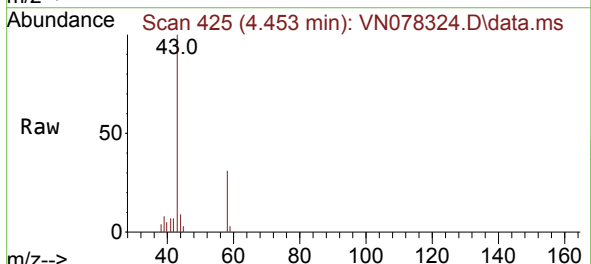
Instrument :
MSVOA_N
ClientSampleId :
PB153609TB

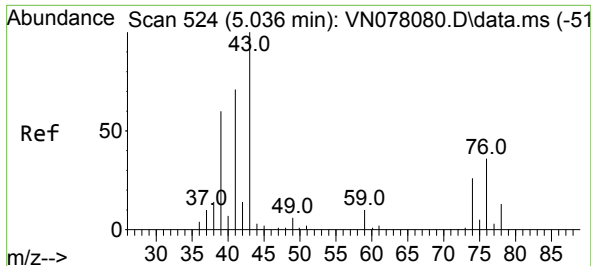
Tgt Ion: 59 Resp: 1125
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 13.824 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.018 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion: 43 Resp: 24168
Ion Ratio Lower Upper
43 100
58 30.6 28.0 42.0

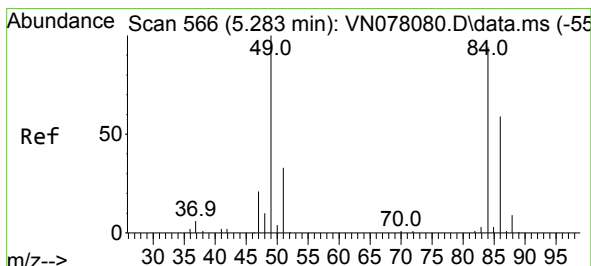
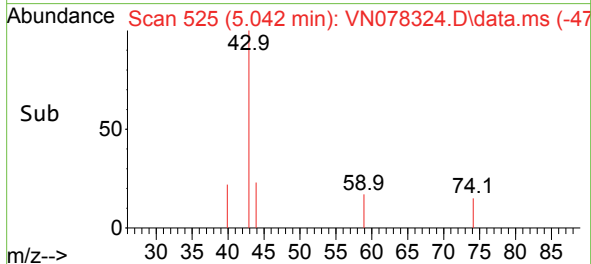
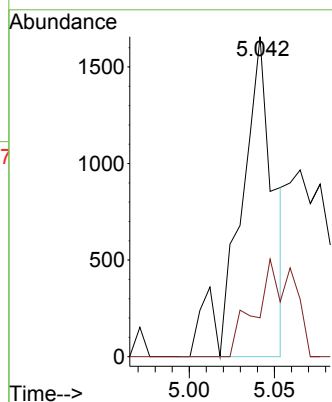
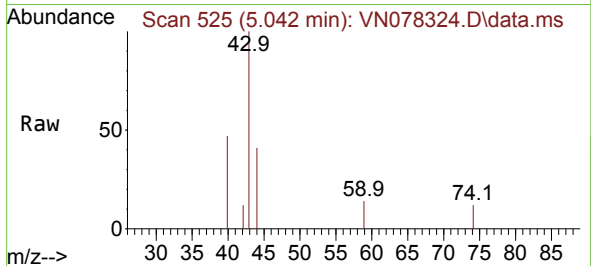




#18
Methyl Acetate
Concen: 0.280 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

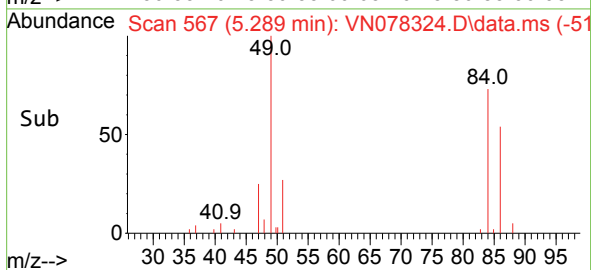
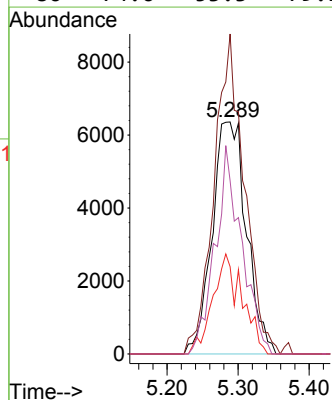
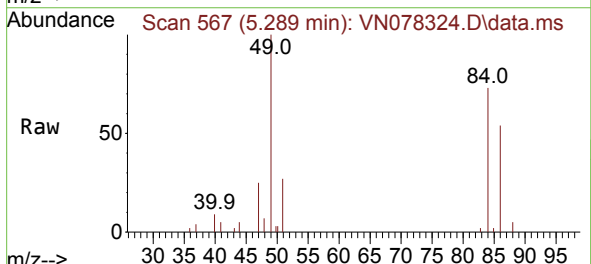
Instrument :
MSVOA_N
ClientSampleId :
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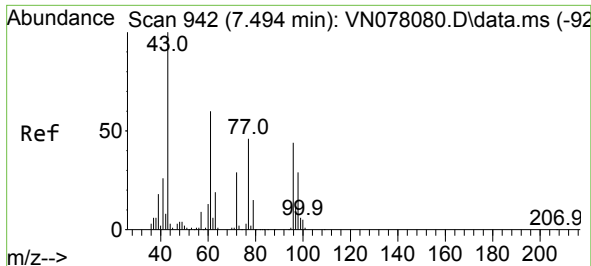
Tgt Ion: 43 Resp: 2257
Ion Ratio Lower Upper
43 100
74 34.4 26.2 39.4



#20
Methylene Chloride
Concen: 3.685 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion: 84 Resp: 21287
Ion Ratio Lower Upper
84 100
49 137.9 79.7 119.5#
51 37.5 25.2 37.8
86 74.6 53.3 79.9

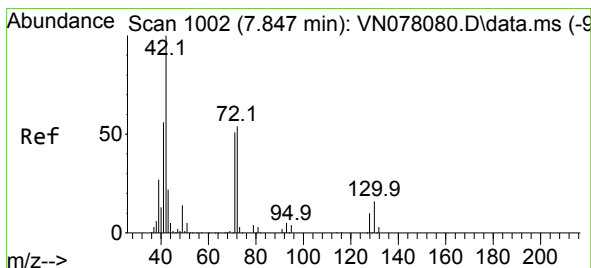
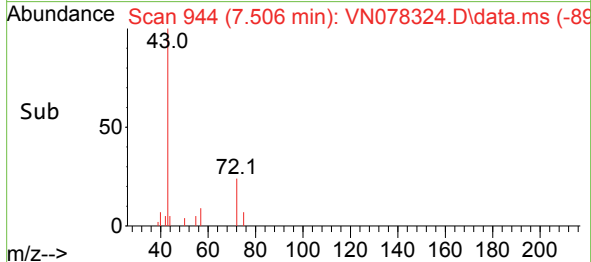
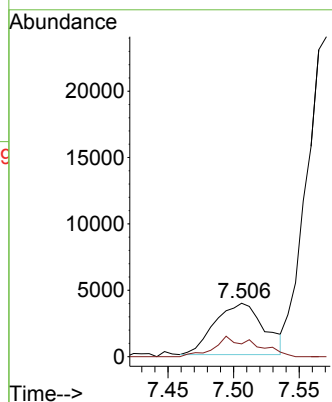
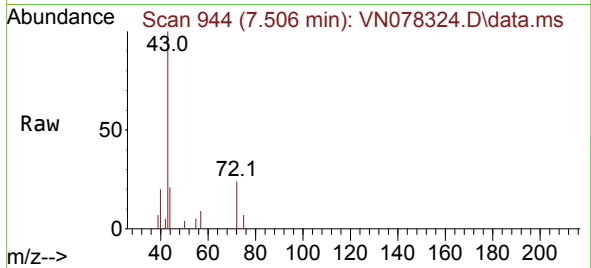




#25
2-Butanone
Concen: 3.771 ug/l
RT: 7.506 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

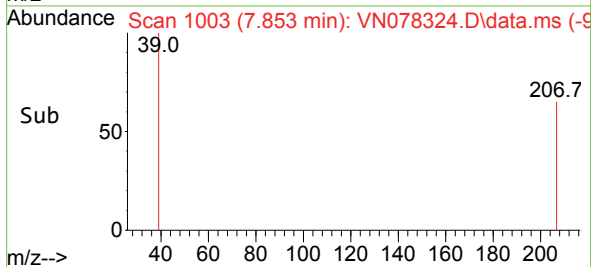
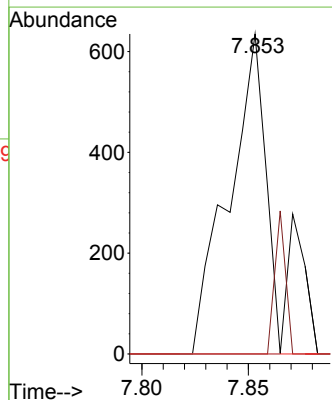
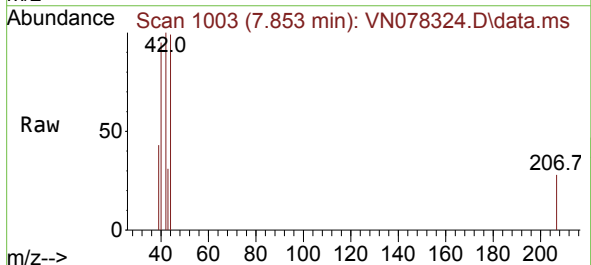
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MSVOA_N
ClientSampleId :
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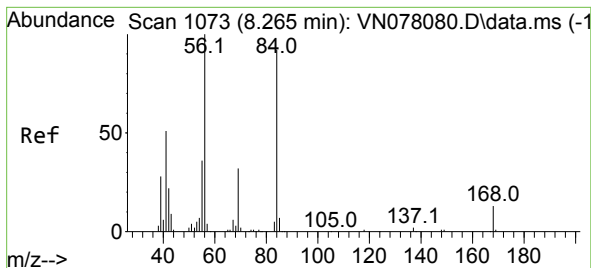
Tgt Ion: 43 Resp: 10139
Ion Ratio Lower Upper
43 100
72 24.9 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.425 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion: 42 Resp: 763
Ion Ratio Lower Upper
42 100
72 13.1 49.8 74.6#
71 0.0 47.4 71.2#





#31

Cyclohexane

Concen: 1.304 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078324.D

Acq: 21 Jun 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB153609TB

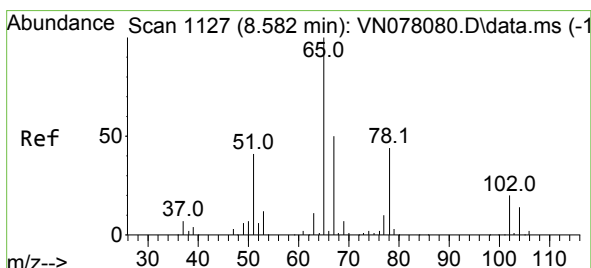
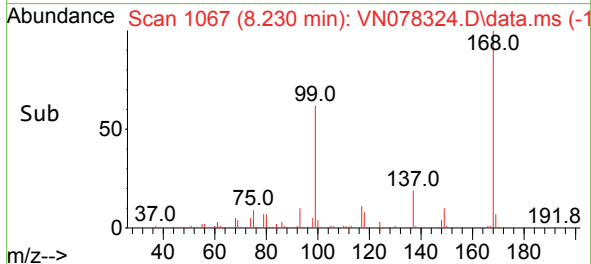
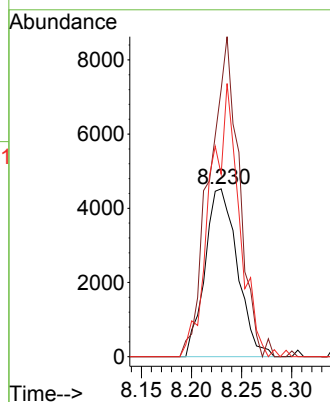
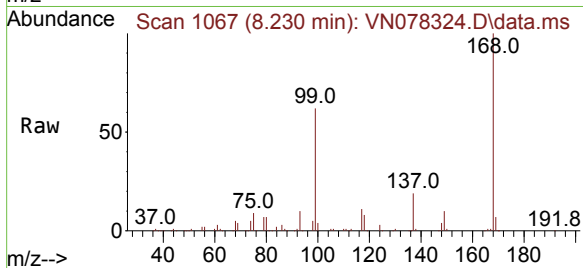
Tgt Ion: 56 Resp: 10158

Ion Ratio Lower Upper

56 100

69 159.4 26.8 40.2#

84 108.7 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 53.489 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078324.D

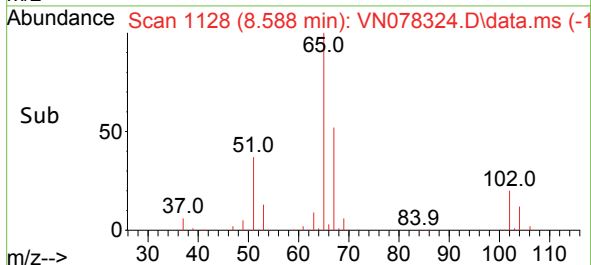
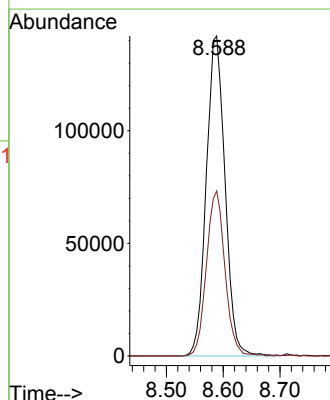
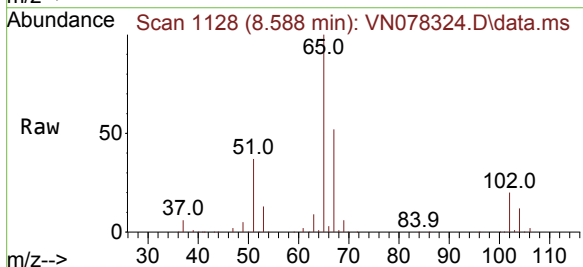
Acq: 21 Jun 2023 15:58

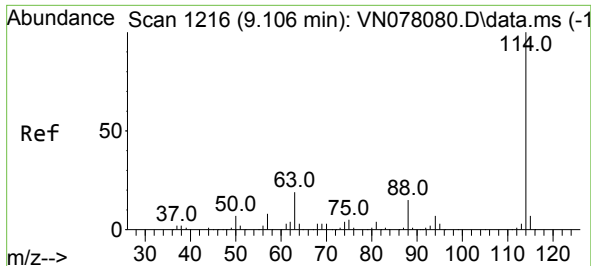
Tgt Ion: 65 Resp: 324884

Ion Ratio Lower Upper

65 100

67 50.9 0.0 106.6

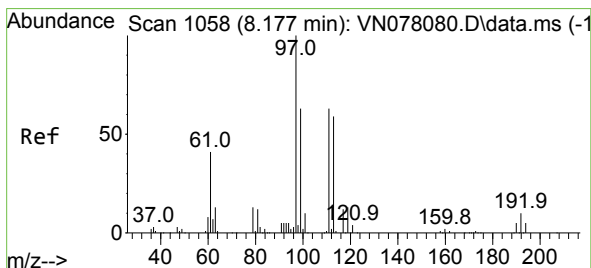
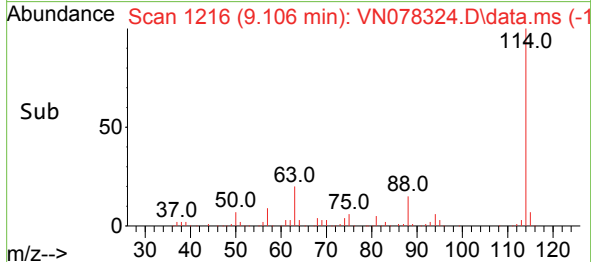
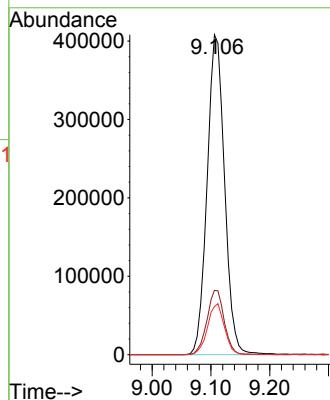
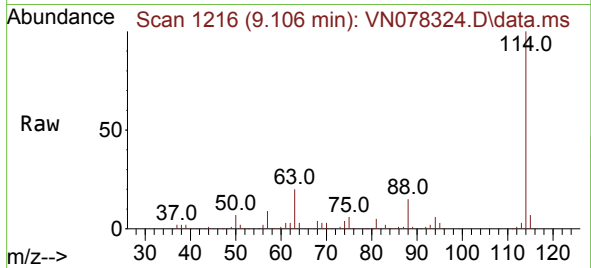




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078324.D
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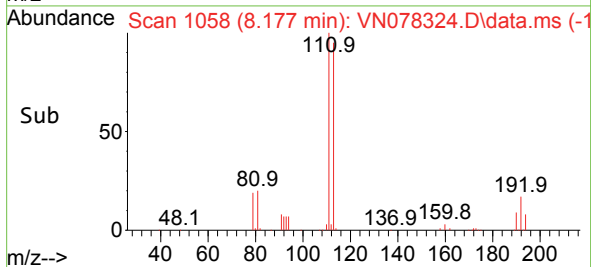
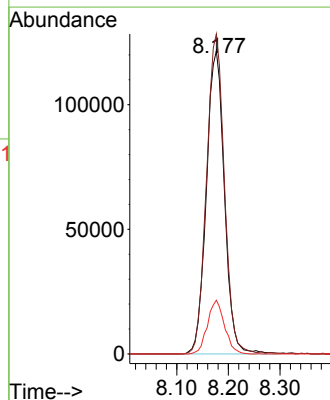
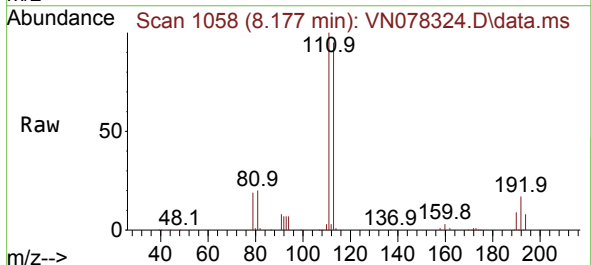
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Tgt Ion:114 Resp: 844453
Ion Ratio Lower Upper
114 100
63 20.1 0.0 36.4
88 15.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 55.242 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion:113 Resp: 294956
Ion Ratio Lower Upper
113 100
111 104.5 82.6 123.8
192 16.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.035 ug/l

RT: 8.230 min Scan# 1092

Delta R.T. -0.147 min

Lab File: VN078324.D

Acq: 21 Jun 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB153609TB

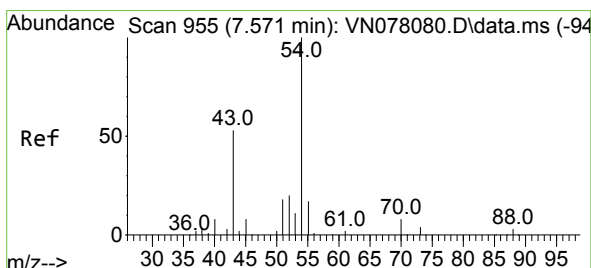
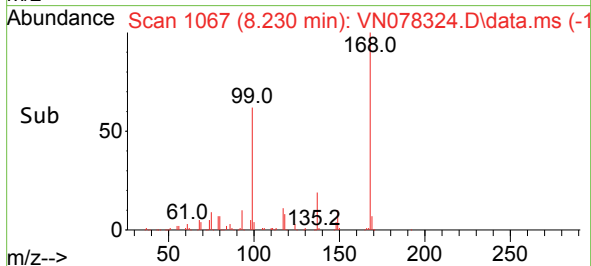
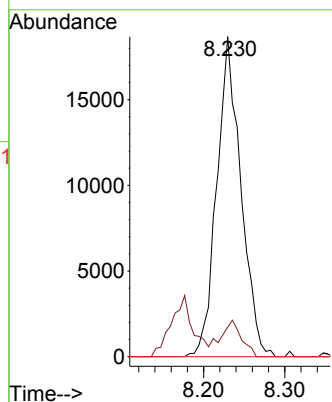
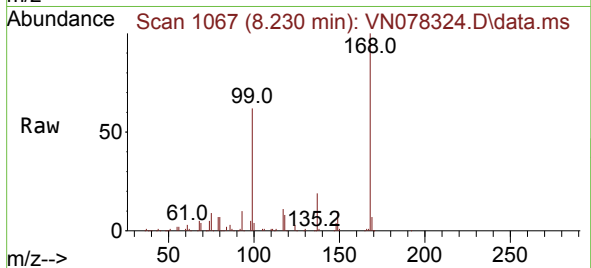
Tgt Ion: 75 Resp: 38562

Ion Ratio Lower Upper

75 100

110 9.9 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 10.242 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN078324.D

Acq: 21 Jun 2023 15:58

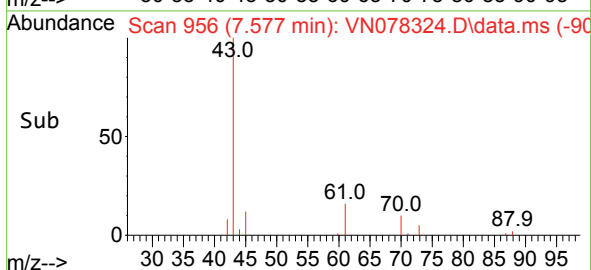
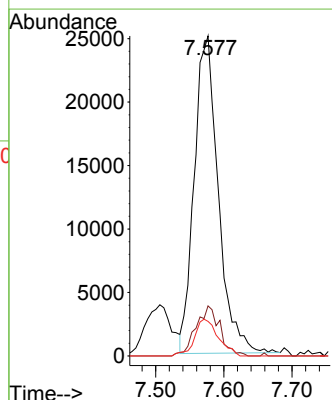
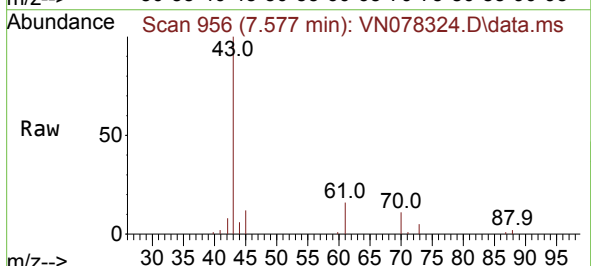
Tgt Ion: 43 Resp: 61278

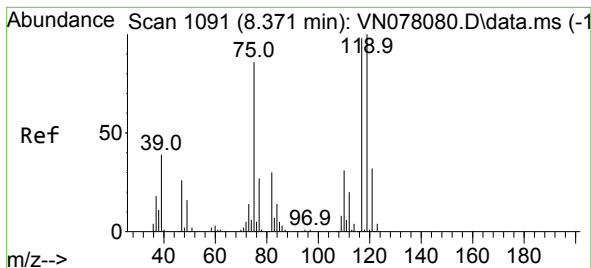
Ion Ratio Lower Upper

43 100

61 15.7 13.2 19.8

70 11.4 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.290 ug/l

RT: 8.230 min Scan# 1091

Delta R.T. -0.141 min

Lab File: VN078324.D

Acq: 21 Jun 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB153609TB

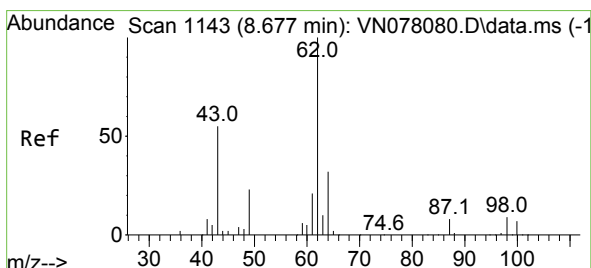
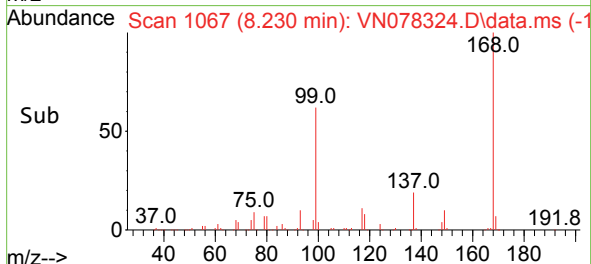
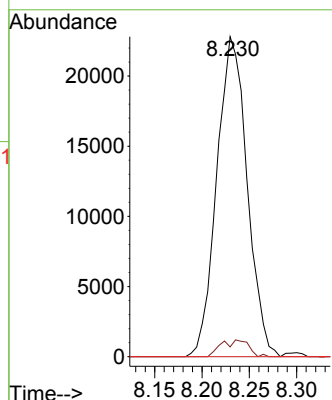
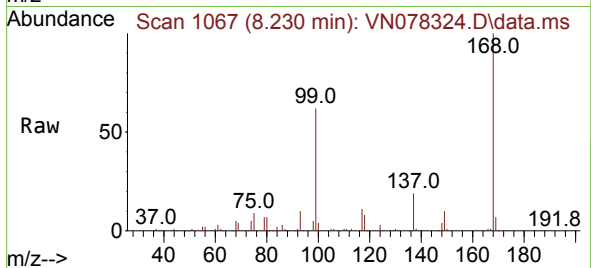
Tgt Ion:117 Resp: 50870

Ion Ratio Lower Upper

117 100

119 3.1 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.295 ug/l

RT: 8.706 min Scan# 1148

Delta R.T. 0.029 min

Lab File: VN078324.D

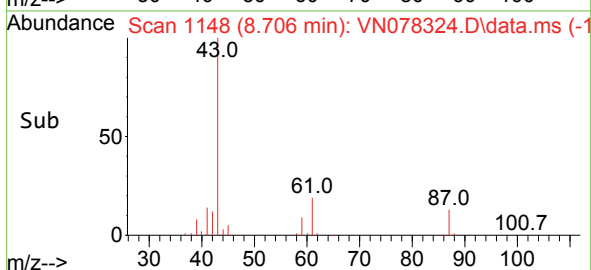
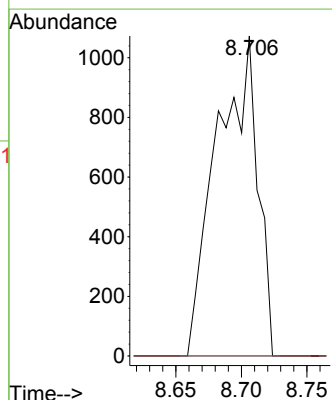
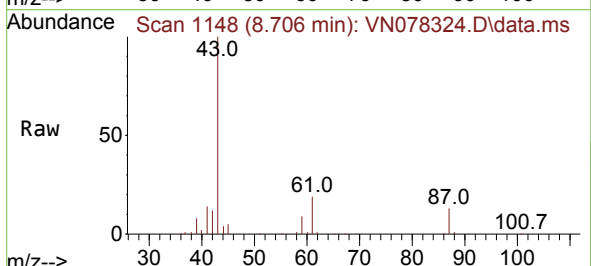
Acq: 21 Jun 2023 15:58

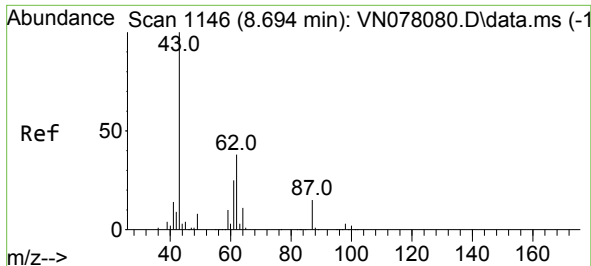
Tgt Ion: 62 Resp: 2312

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

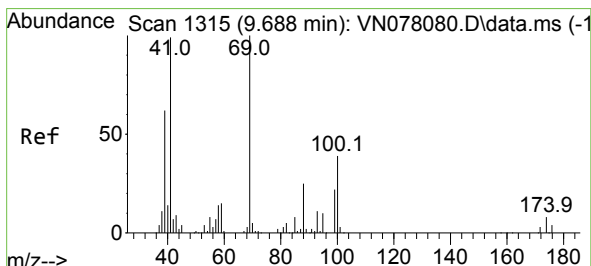
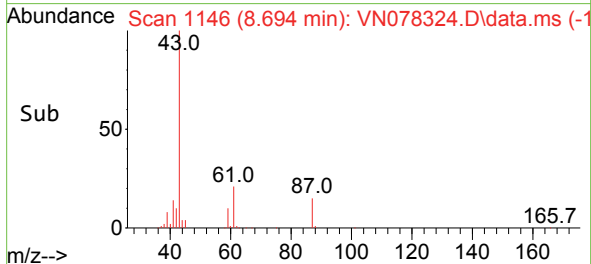
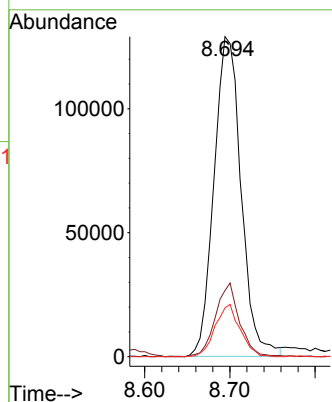
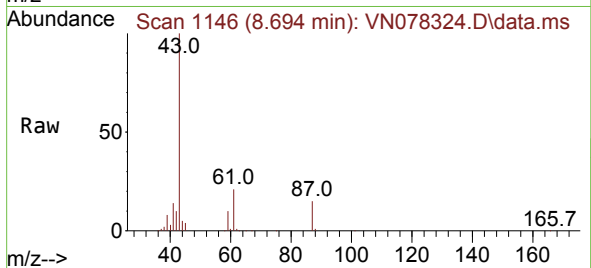




#43
Isopropyl Acetate
Concen: 24.863 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

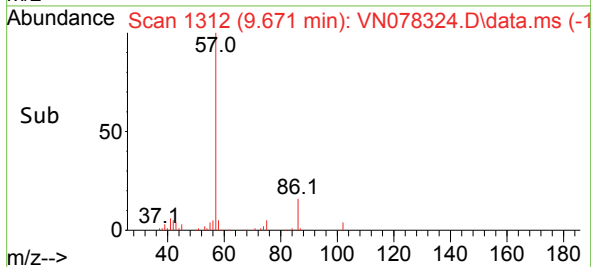
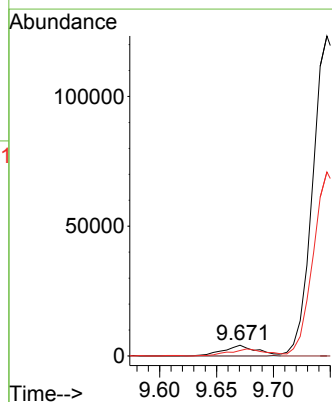
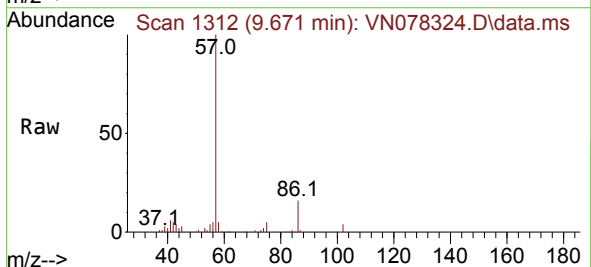
Instrument :
MSVOA_N
ClientSampleId :
PB153609TB

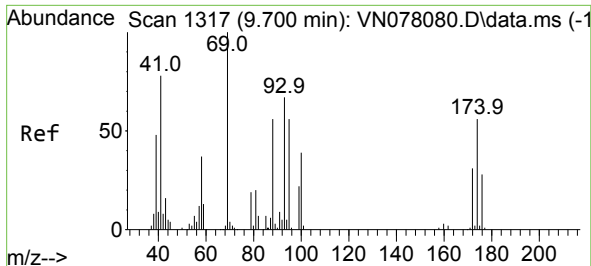
Tgt Ion: 43 Resp: 284482
Ion Ratio Lower Upper
43 100
61 20.5 24.7 37.1#
87 15.0 14.6 21.8



#48
Methyl methacrylate
Concen: 1.796 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion: 41 Resp: 8626
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 74.2 54.6 81.8





#49

1,4-Dioxane

Concen: 0.624 ug/l

RT: 9.677 min Scan# 11

Delta R.T. -0.024 min

Lab File: VN078324.D

Acq: 21 Jun 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB153609TB

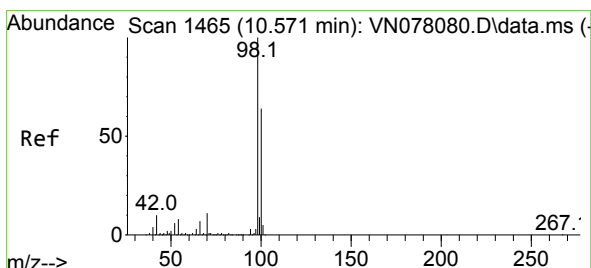
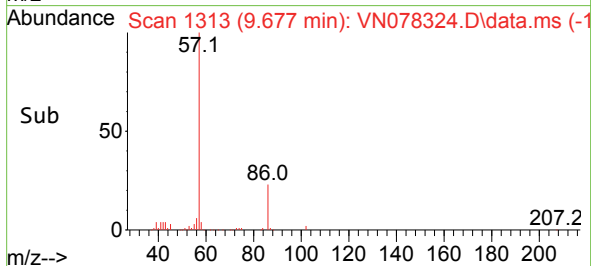
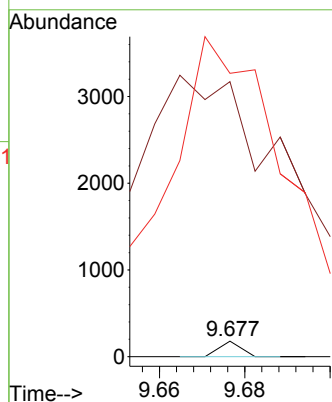
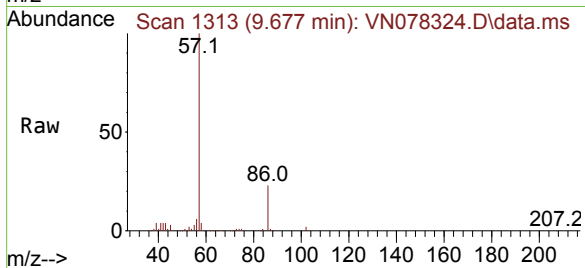
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 12400.0 47.0 70.4#



#50

Toluene-d8

Concen: 49.886 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078324.D

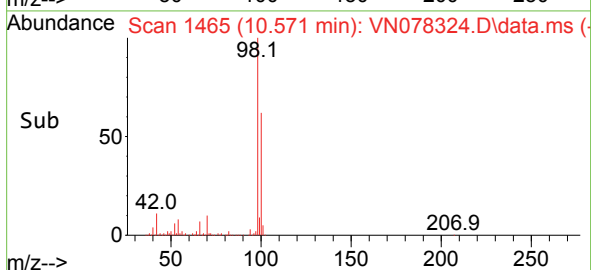
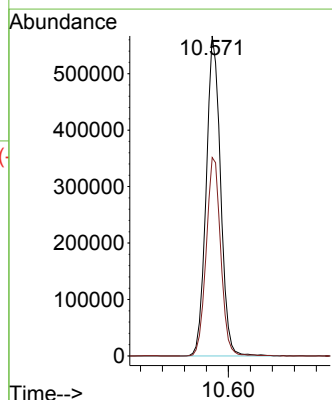
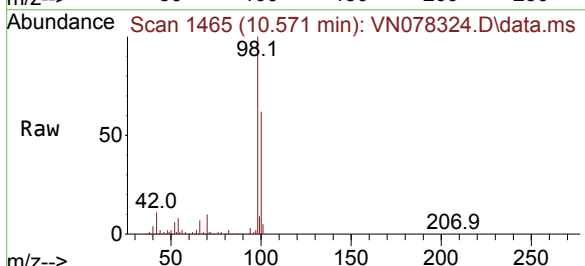
Acq: 21 Jun 2023 15:58

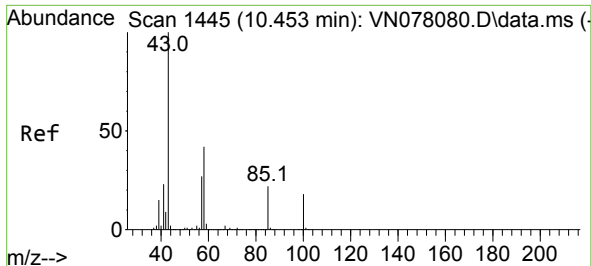
Tgt Ion: 98 Resp: 1026852

Ion Ratio Lower Upper

98 100

100 62.6 52.0 78.0

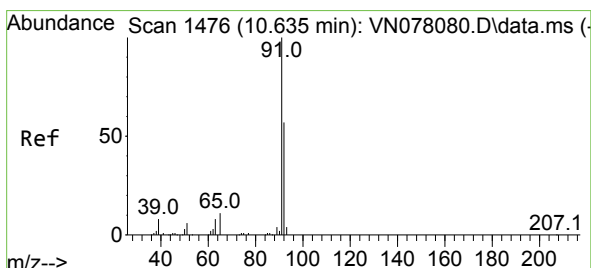
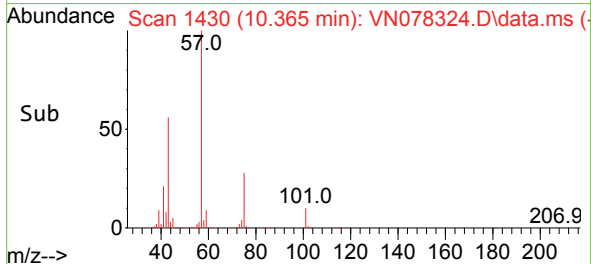
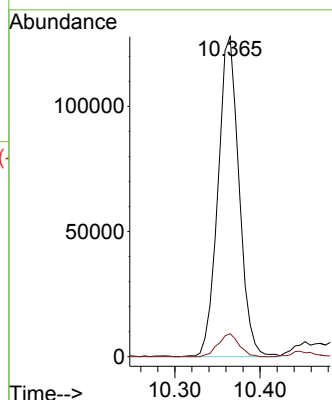
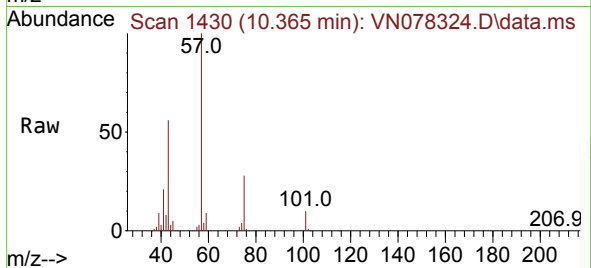




#51
4-Methyl-2-Pentanone
Concen: 36.498 ug/l
RT: 10.365 min Scan# 1445
Delta R.T. -0.088 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

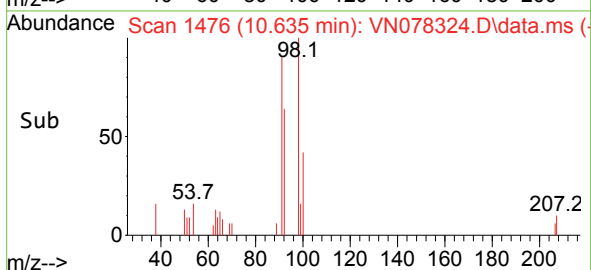
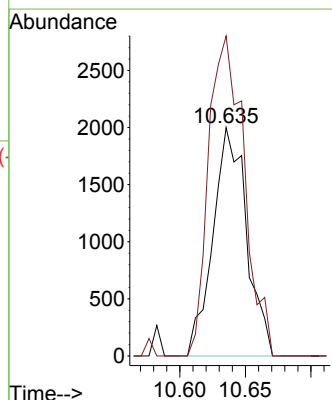
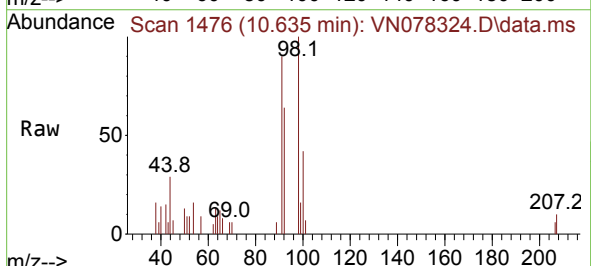
Instrument :
MSVOA_N
ClientSampleId :
PB153609TB

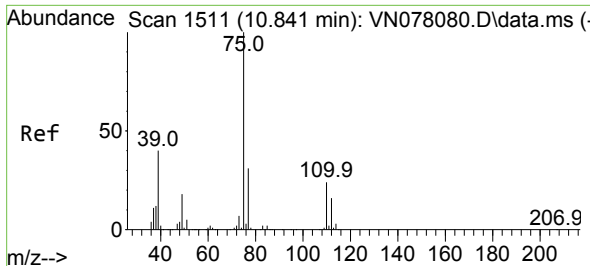
Tgt Ion: 43 Resp: 219914
Ion Ratio Lower Upper
43 100
58 7.1 36.6 54.8#



#52
Toluene
Concen: 0.247 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion: 92 Resp: 3571
Ion Ratio Lower Upper
92 100
91 147.5 137.4 206.0

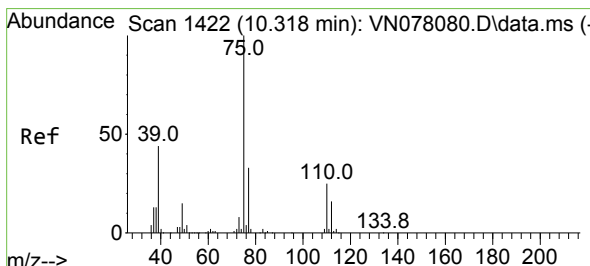
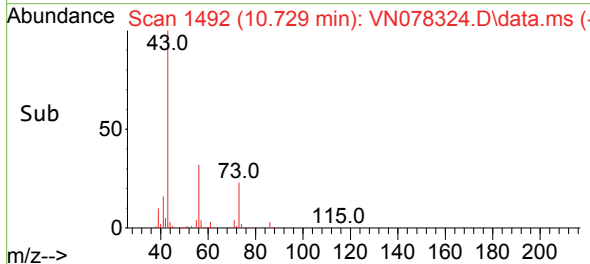
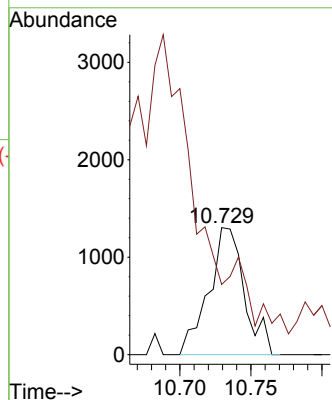
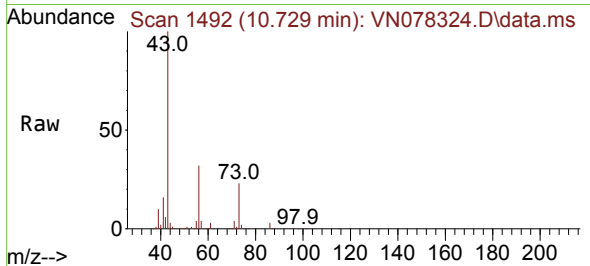




#53
t-1,3-Dichloropropene
Concen: 0.280 ug/l
RT: 10.729 min Scan# 14
Delta R.T. -0.112 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

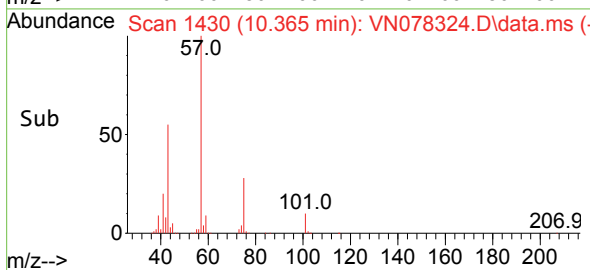
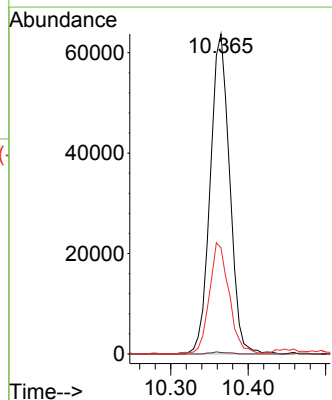
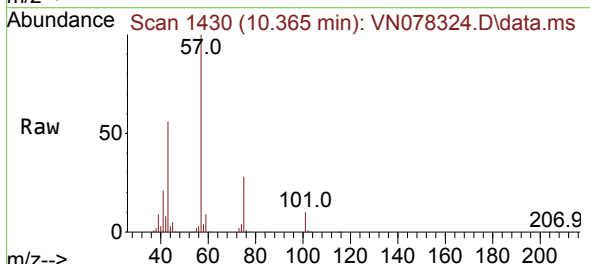
Instrument :
MSVOA_N
ClientSampleId :
PB153609TB

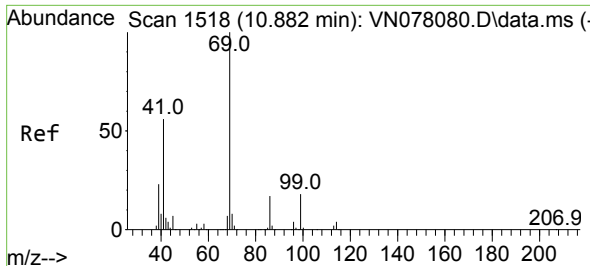
Tgt Ion: 75 Resp: 2272
Ion Ratio Lower Upper
75 100
77 23.3 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 12.382 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion: 75 Resp: 110951
Ion Ratio Lower Upper
75 100
77 0.5 26.1 39.1#
39 32.7 31.6 47.4

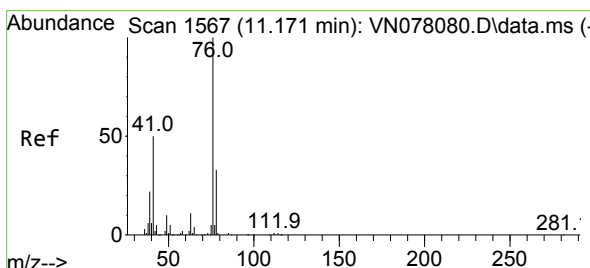
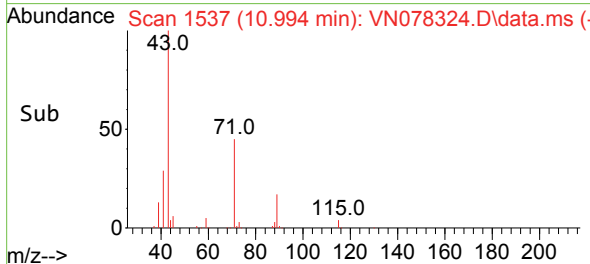
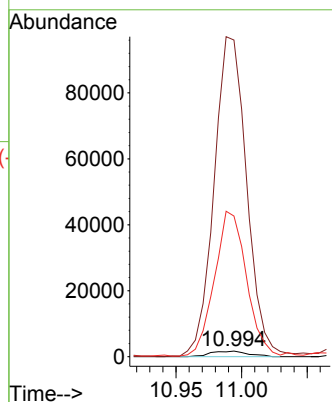
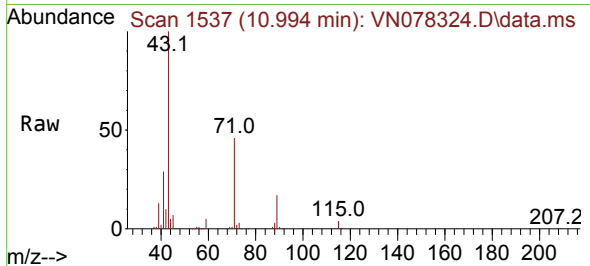




#56
Ethyl methacrylate
Concen: 0.423 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.112 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

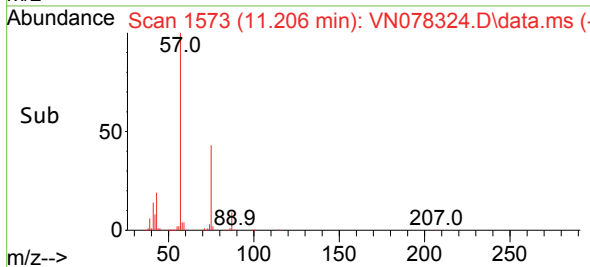
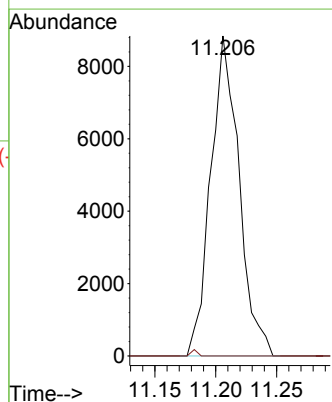
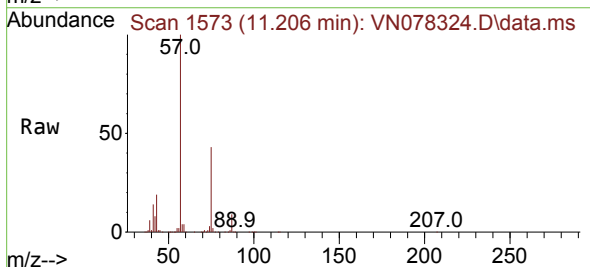
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MSVOA_N
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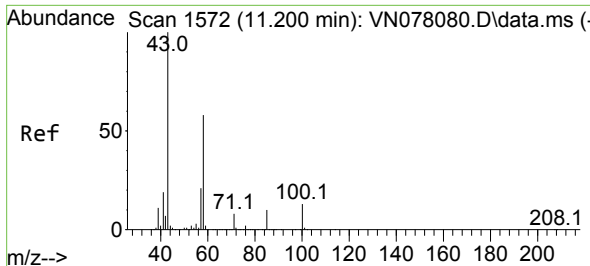
Tgt Ion: 69 Resp: 3365
Ion Ratio Lower Upper
69 100
41 4995.4 39.6 59.4#
39 2228.1 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.555 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion: 76 Resp: 14337
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

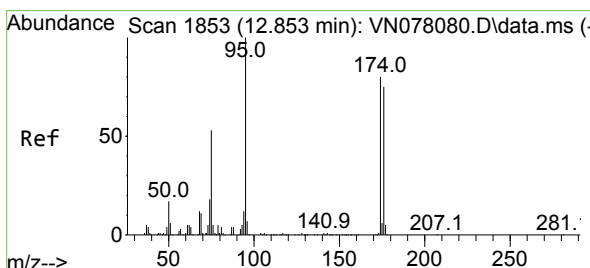
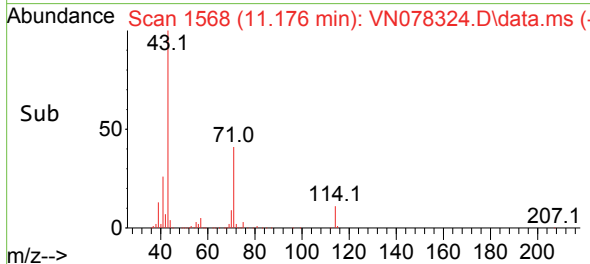
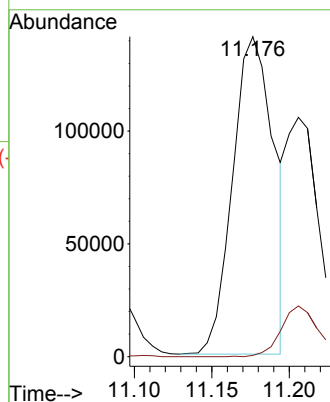
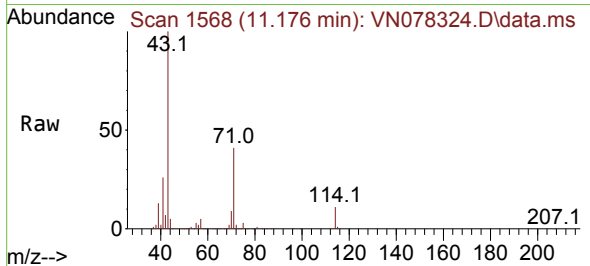




#59
2-Hexanone
Concen: 61.975 ug/l
RT: 11.176 min Scan# 11176
Delta R.T. -0.023 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

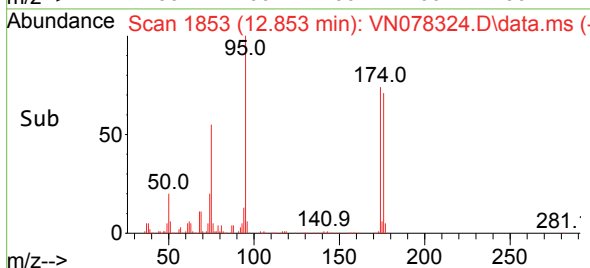
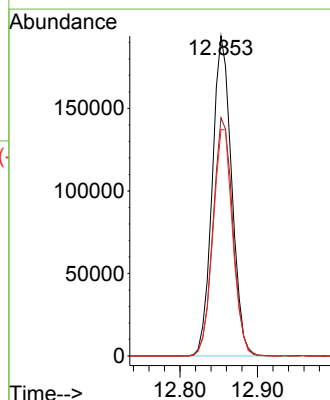
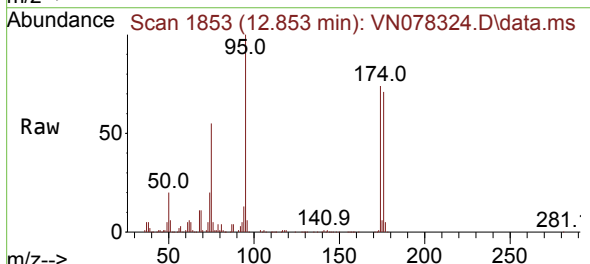
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MSVOA_N
ClientSampleId :
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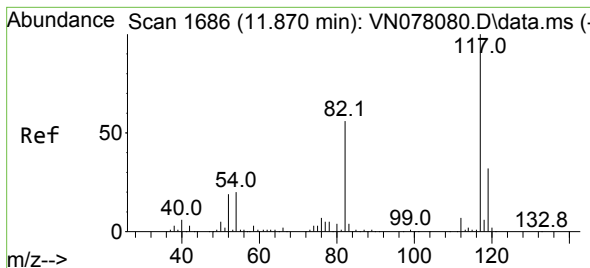
Tgt Ion: 43 Resp: 260008
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.536 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion: 95 Resp: 336176
Ion Ratio Lower Upper
95 100
174 75.9 0.0 143.8
176 72.4 0.0 135.8

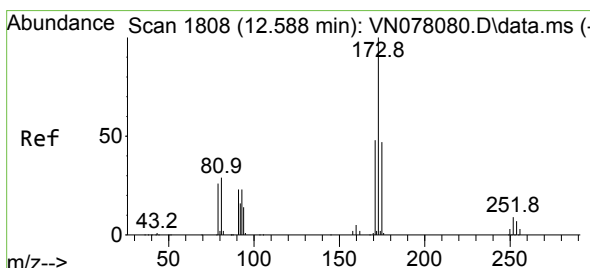
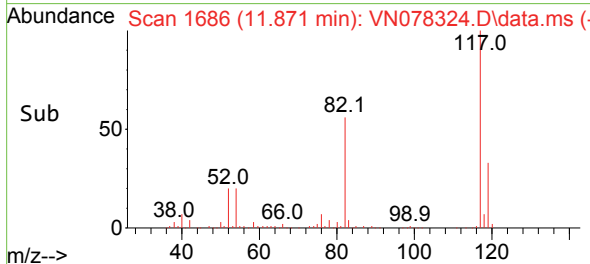
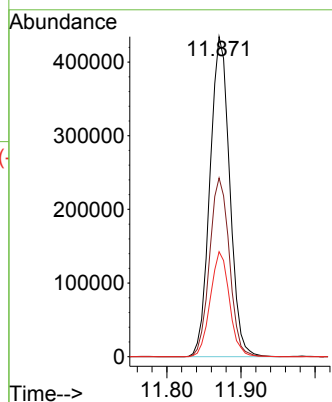
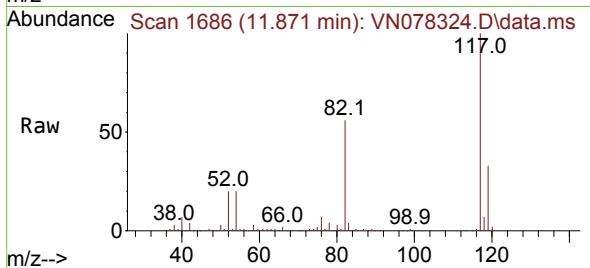




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

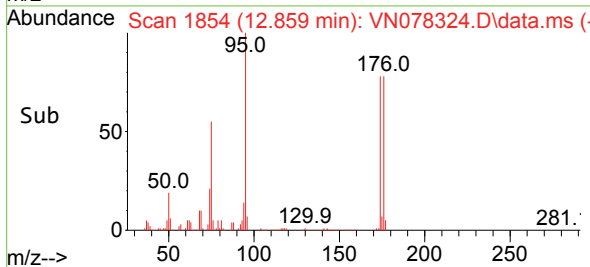
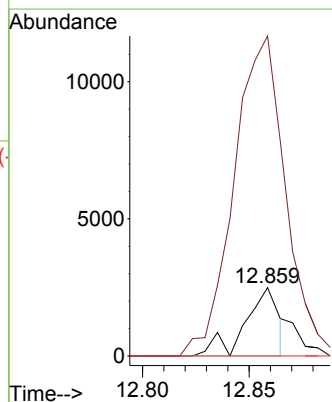
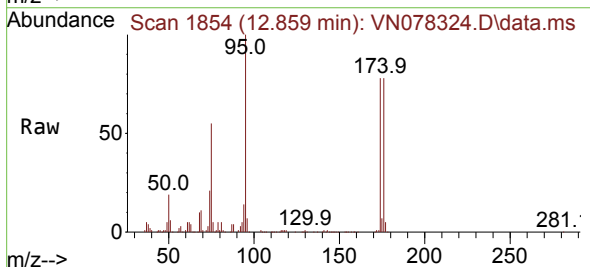
Instrument :
MSVOA_N
ClientSampleId :
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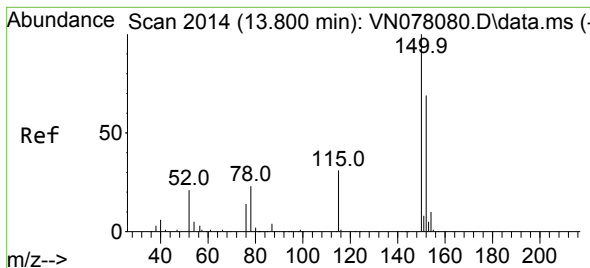
Tgt Ion:117 Resp: 803236
Ion Ratio Lower Upper
117 100
82 55.9 44.0 66.0
119 32.8 25.6 38.4



#71
Bromoform
Concen: 0.669 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.271 min
Lab File: VN078324.D
Acq: 21 Jun 2023 15:58

Tgt Ion:173 Resp: 2731
Ion Ratio Lower Upper
173 100
175 628.2 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN078324.D

Acq: 21 Jun 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB153609TB

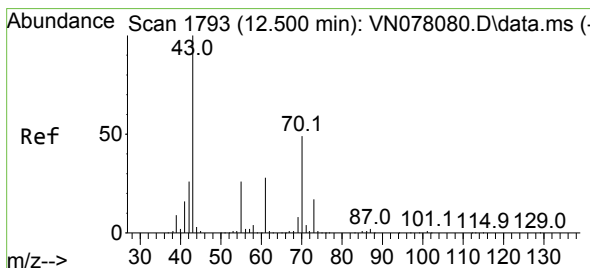
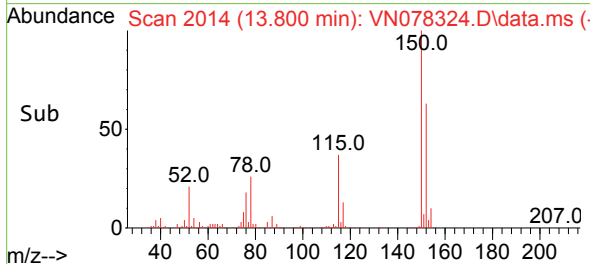
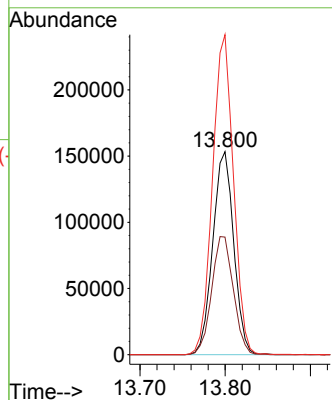
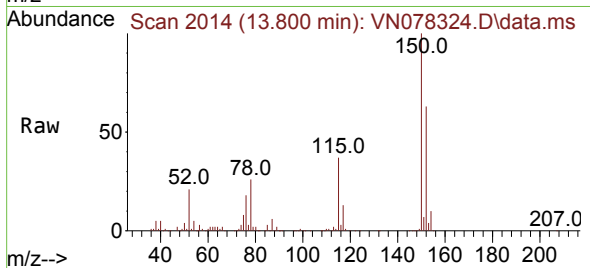
Tgt Ion:152 Resp: 262200

Ion Ratio Lower Upper

152 100

115 60.1 32.3 96.8

150 157.0 0.0 355.8



#74

N-ethyl acetate

Concen: 0.256 ug/l

RT: 12.388 min Scan# 1774

Delta R.T. -0.112 min

Lab File: VN078324.D

Acq: 21 Jun 2023 15:58

Tgt Ion: 43 Resp: 2088

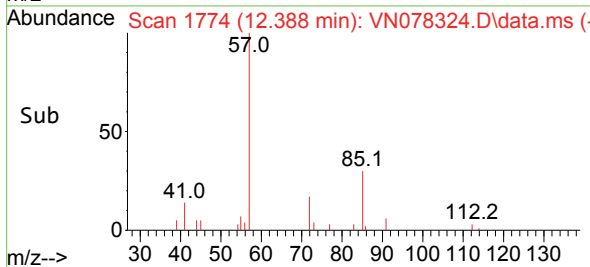
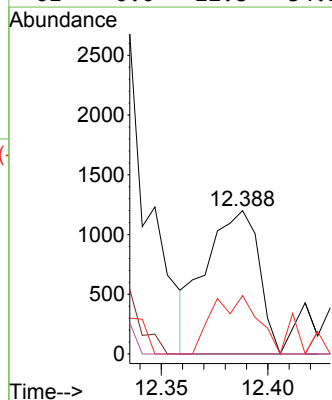
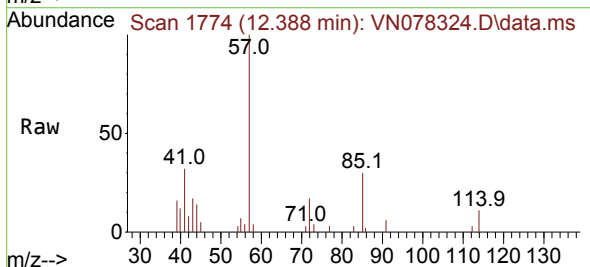
Ion Ratio Lower Upper

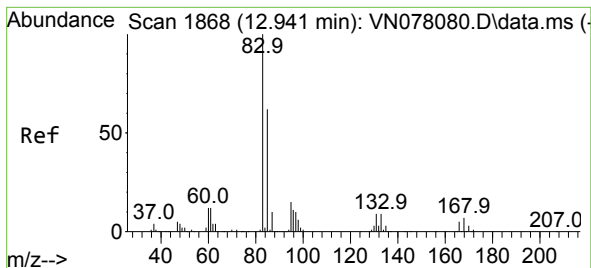
43 100

70 0.0 43.4 65.2#

55 34.8 21.4 32.0#

61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 13.006 min Scan# 1879

Delta R.T. 0.065 min

Lab File: VN078324.D

Acq: 21 Jun 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB153609TB

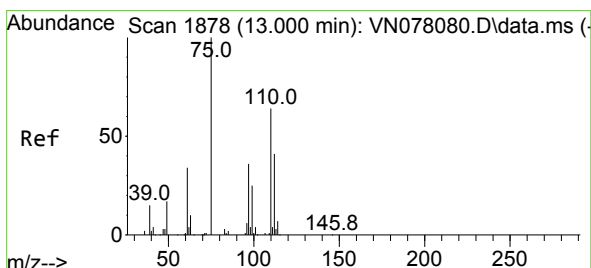
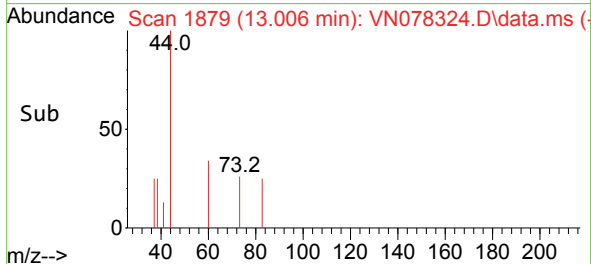
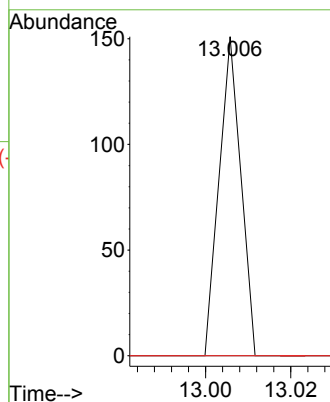
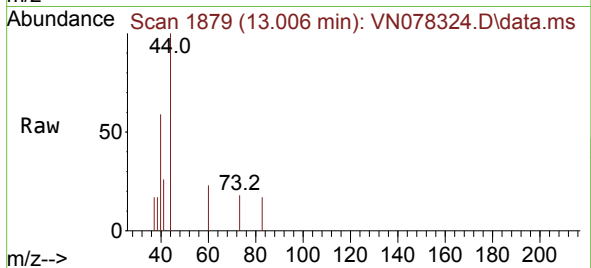
Tgt Ion: 83 Resp: 53

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: 29.273 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078324.D

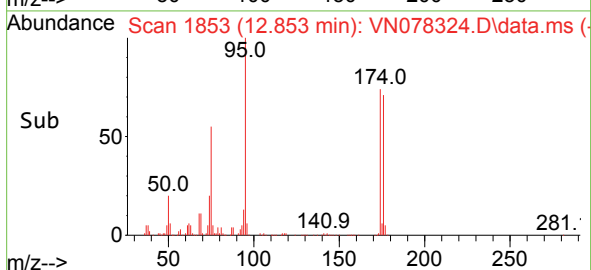
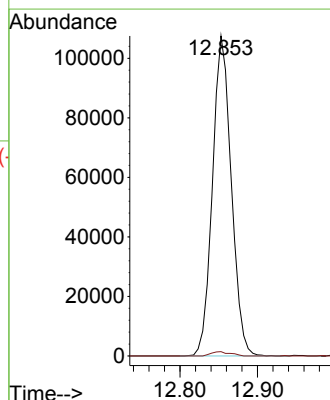
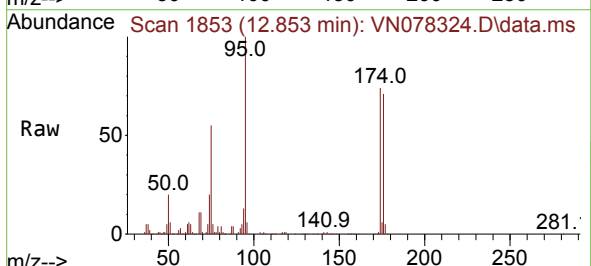
Acq: 21 Jun 2023 15:58

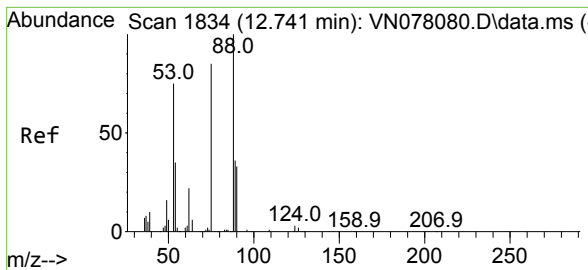
Tgt Ion: 75 Resp: 181446

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 89.934 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078324.D
 Acq: 21 Jun 2023 15:58

Instrument :
 MSVOA_N
 ClientSampleId :
 PB153609TB

Tgt Ion: 75 Resp: 181446
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

