

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061523\
 Data File : VN078232.D
 Acq On : 15 Jun 2023 16:45
 Operator : JC\MD
 Sample : 03259-03DL 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 16 06:08:56 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)

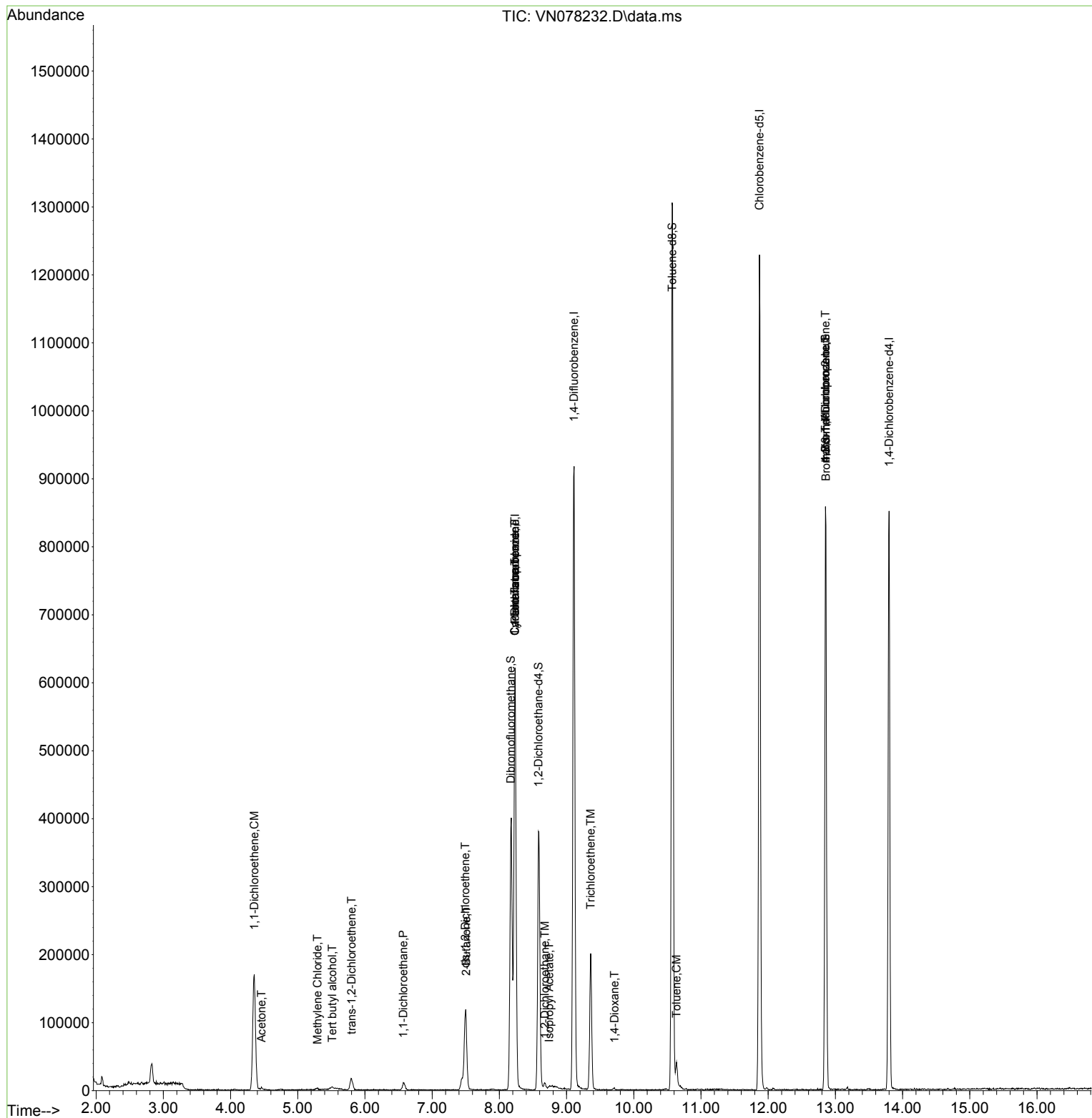
Internal Standards						
1) Pentafluorobenzene	8.235	168	443048	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	818150	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	733193	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	228438	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	317542	53.755	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.520%	
35) Dibromofluoromethane	8.171	113	282738	54.656	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 109.320%	
50) Toluene-d8	10.571	98	954310	47.853	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.700%	
62) 4-Bromofluorobenzene	12.853	95	302459	48.786	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 97.580%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1125	Below Cal	#	42
11) Tert butyl alcohol	5.512	59	2135	2.618	ug/l #	72
12) 1,1-Dichloroethene	4.353	96	101668	21.014	ug/l	82
16) Acetone	4.459	43	1919	1.129	ug/l #	74
20) Methylene Chloride	5.294	84	2323	0.413	ug/l #	58
21) trans-1,2-Dichloroethene	5.800	96	10422	1.997	ug/l	93
24) 1,1-Dichloroethane	6.571	63	14413	1.573	ug/l #	94
25) 2-Butanone	7.506	43	914	0.350	ug/l #	80
27) cis-1,2-Dichloroethene	7.494	96	70356	11.303	ug/l	97
31) Cyclohexane	8.230	56	10842	1.431	ug/l #	41
36) 1,1-Dichloropropene	8.230	75	38978	5.253	ug/l #	48
38) Carbon Tetrachloride	8.230	117	48730	6.220	ug/l #	18
42) 1,2-Dichloroethane	8.677	62	8650	1.139	ug/l	100
43) Isopropyl Acetate	8.741	43	2925	0.264	ug/l #	49
44) Trichloroethene	9.359	130	68021	11.627	ug/l	98
49) 1,4-Dioxane	9.712	88	1685	17.233	ug/l #	80
52) Toluene	10.635	92	13341	0.954	ug/l	93
71) Bromoform	12.859	173	1974	0.530	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.935	83	62	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	164381	30.439	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	164381	93.518	ug/l #	15

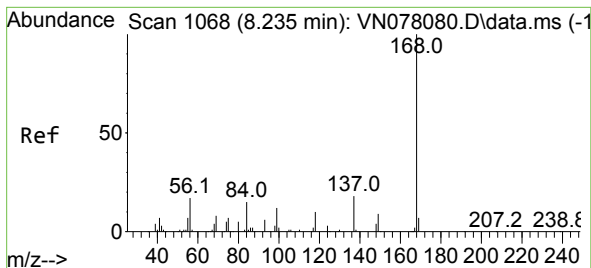
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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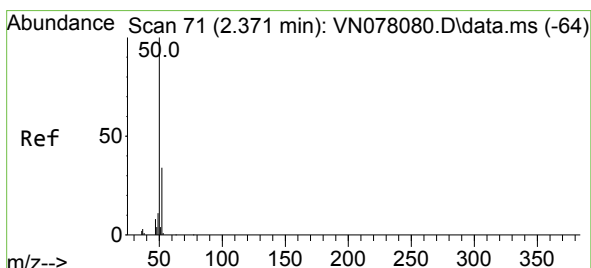
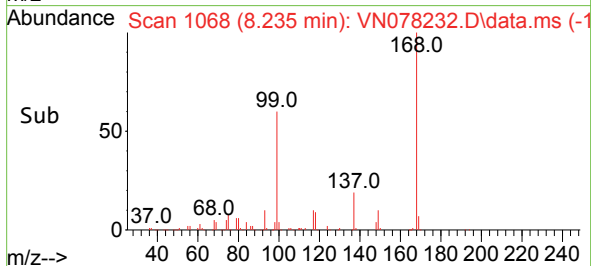
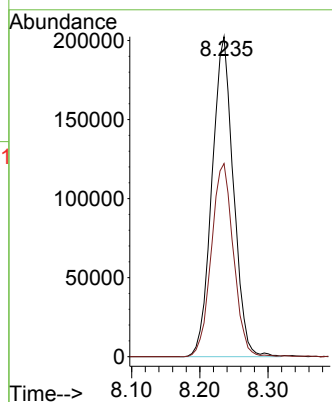
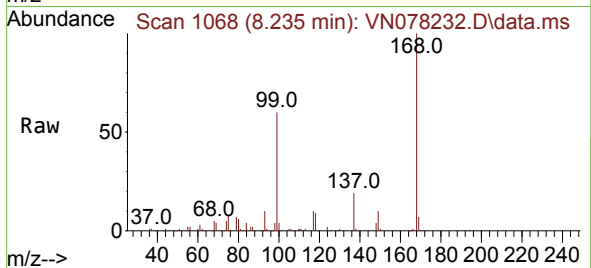




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

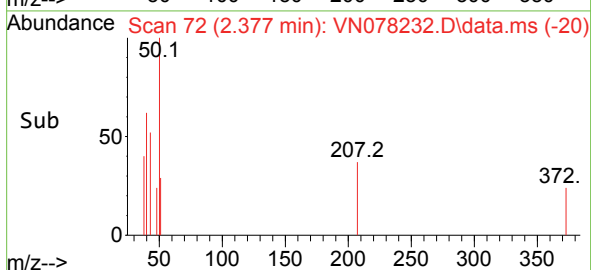
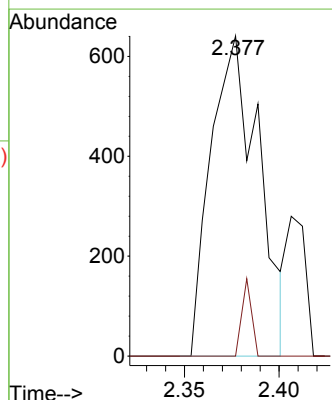
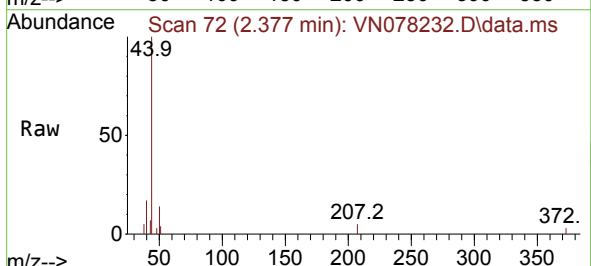
Instrument :
MSVOA_N
ClientSampleId :

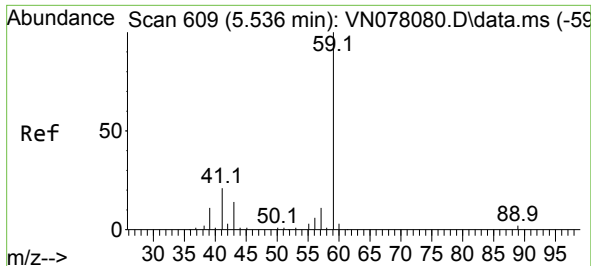
Tgt Ion:168 Resp: 443048
Ion Ratio Lower Upper
168 100
99 60.4 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

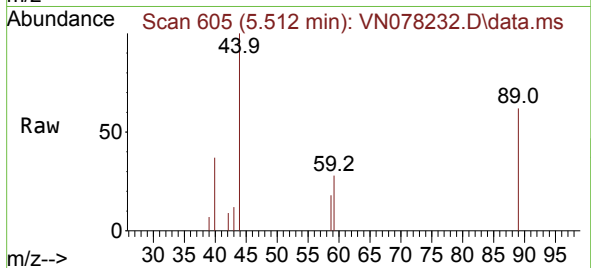
Tgt Ion: 50 Resp: 1125
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



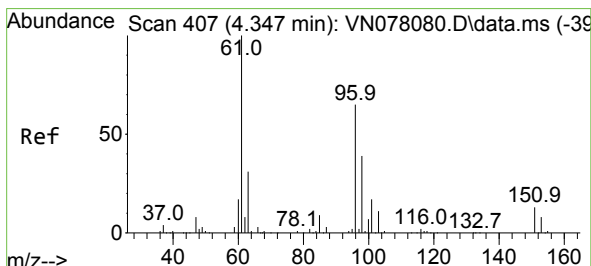
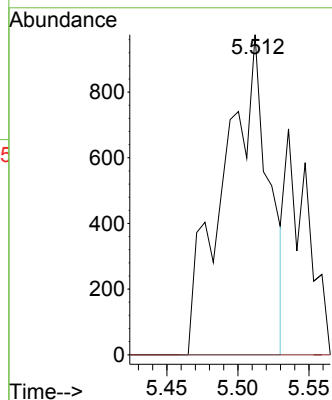
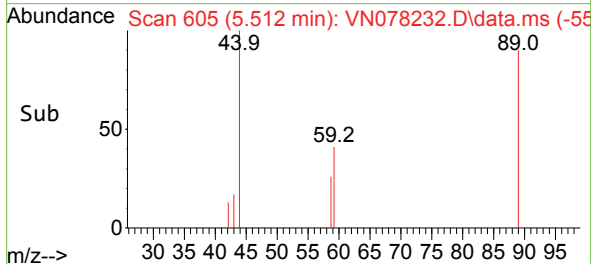


#11
Tert butyl alcohol
Concen: 2.618 ug/l
RT: 5.512 min Scan# 609
Delta R.T. -0.024 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

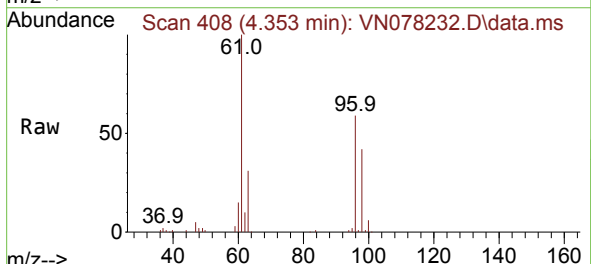
Instrument :
MSVOA_N
ClientSampleId :



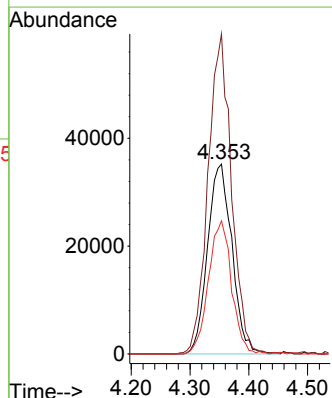
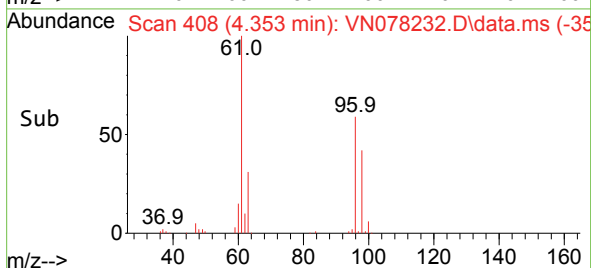
Tgt Ion: 59 Resp: 2135
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

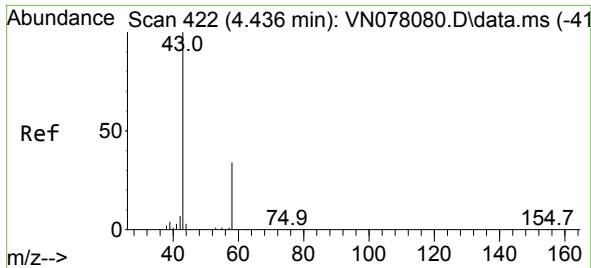


#12
1,1-Dichloroethene
Concen: 21.014 ug/l
RT: 4.353 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45



Tgt Ion: 96 Resp: 101668
Ion Ratio Lower Upper
96 100
61 167.8 112.7 169.1
98 70.1 51.2 76.8

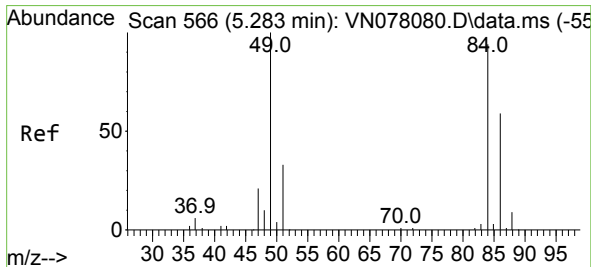
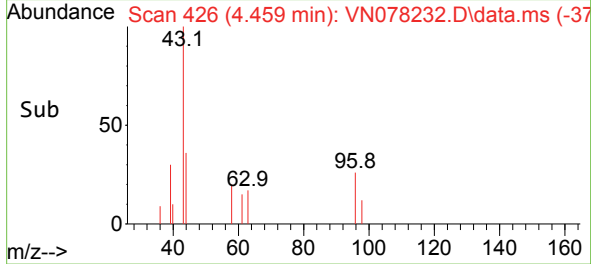
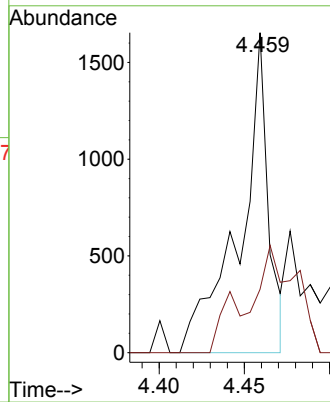
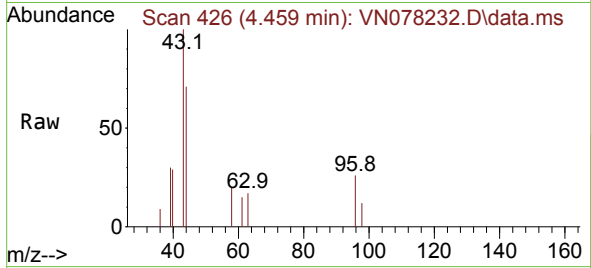




#16
Acetone
Concen: 1.129 ug/l
RT: 4.459 min Scan# 41
Delta R.T. 0.024 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

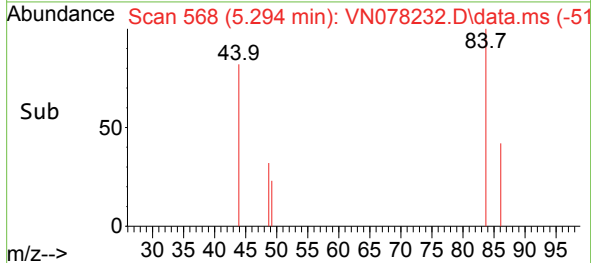
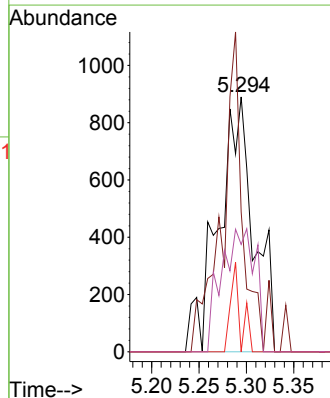
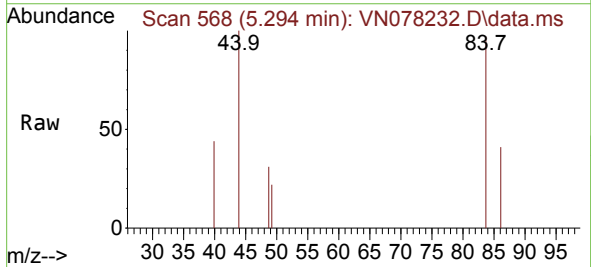
Instrument :
MSVOA_N
ClientSampleId :

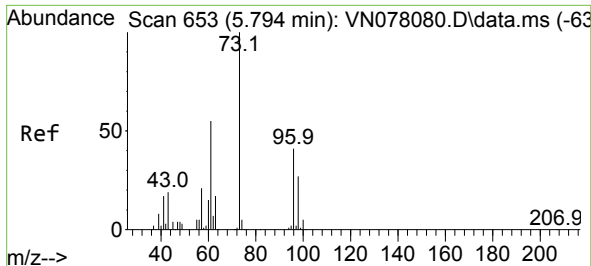
Tgt Ion: 43 Resp: 1919
Ion Ratio Lower Upper
43 100
58 19.8 28.0 42.0#



#20
Methylene Chloride
Concen: 0.413 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.012 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

Tgt Ion: 84 Resp: 2323
Ion Ratio Lower Upper
84 100
49 54.9 79.7 119.5#
51 0.0 25.2 37.8#
86 42.1 53.3 79.9#

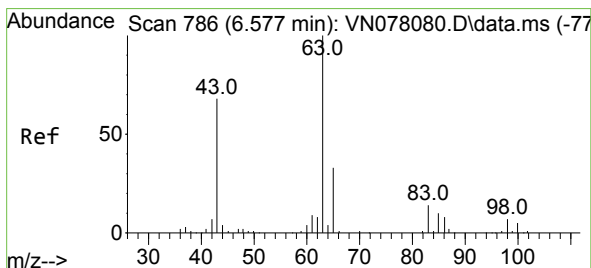
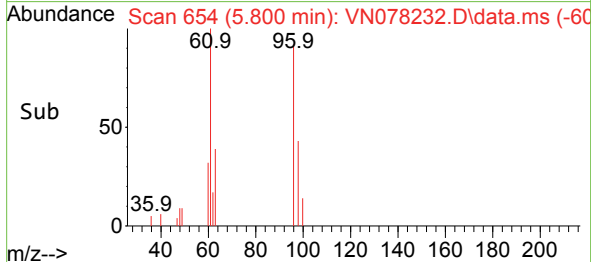
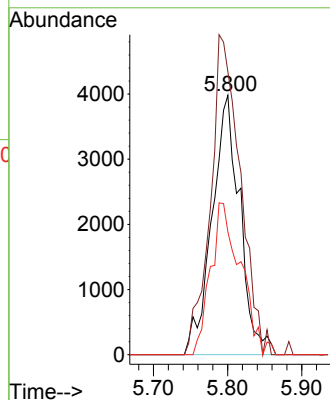
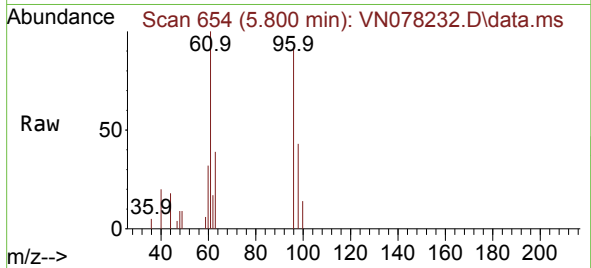




#21
trans-1,2-Dichloroethene
Concen: 1.997 ug/l
RT: 5.800 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

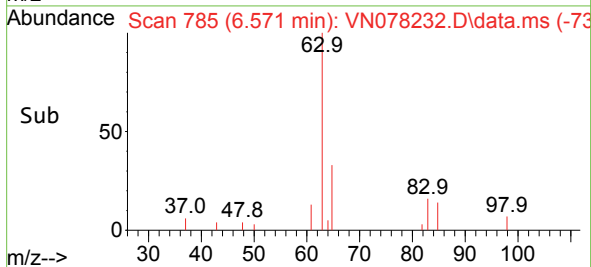
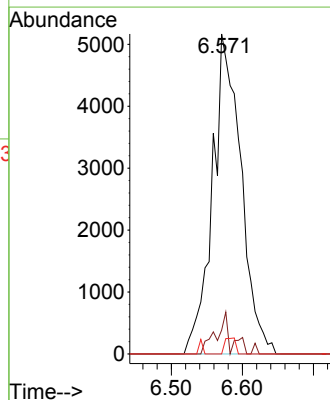
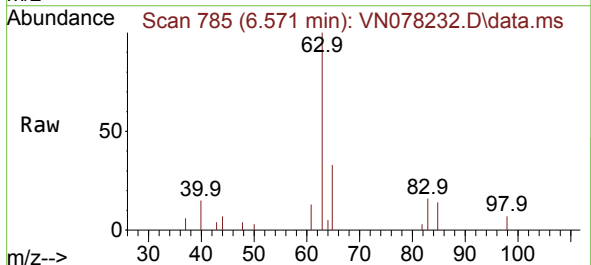
Instrument :
MSVOA_N
ClientSampleId :

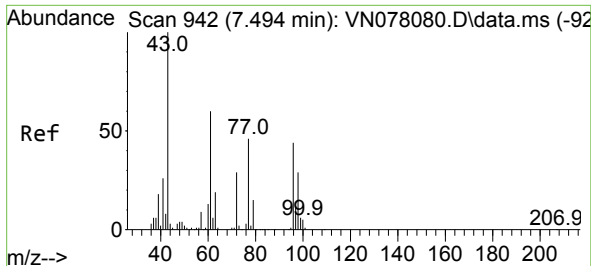
Tgt Ion: 96 Resp: 10422
Ion Ratio Lower Upper
96 100
61 109.1 90.1 135.1
98 47.3 46.4 69.6



#24
1,1-Dichloroethane
Concen: 1.573 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.006 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

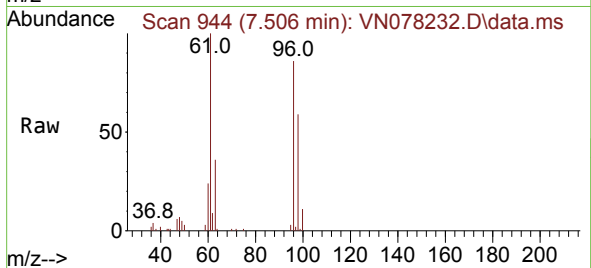
Tgt Ion: 63 Resp: 14413
Ion Ratio Lower Upper
63 100
98 7.5 3.9 11.7
100 0.0 2.5 7.4#



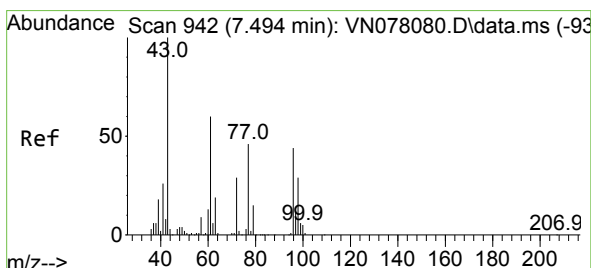
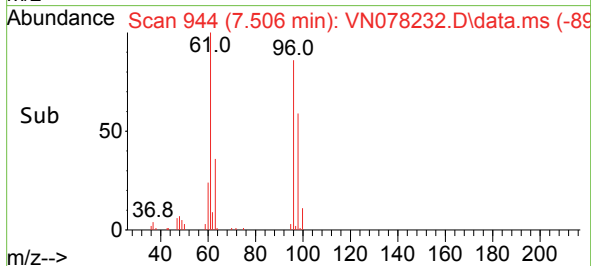
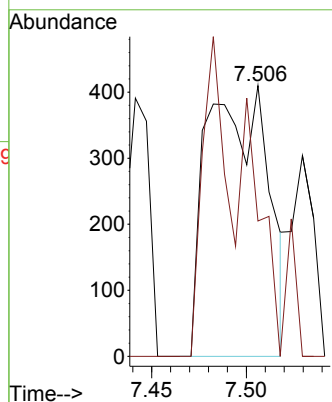


#25
2-Butanone
Concen: 0.350 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

Instrument :
MSVOA_N
ClientSampleId :

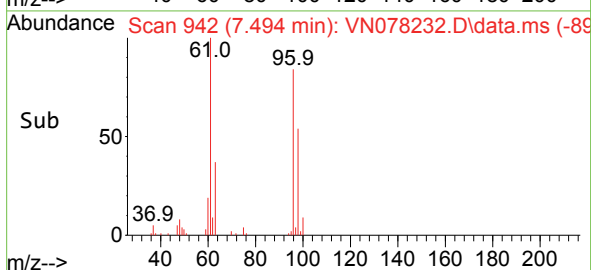
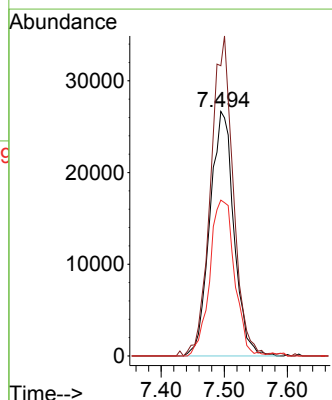
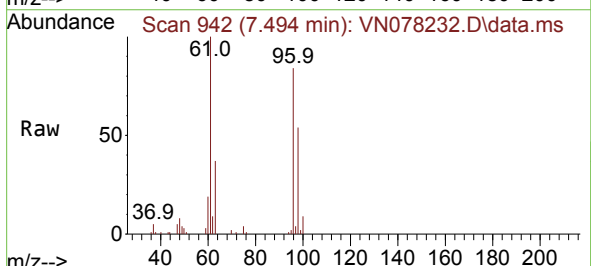


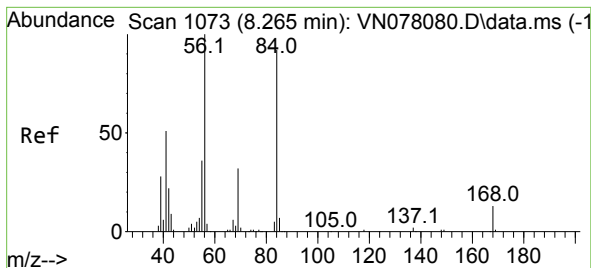
Tgt Ion: 43 Resp: 914
Ion Ratio Lower Upper
43 100
72 50.0 30.2 45.2#



#27
cis-1,2-Dichloroethene
Concen: 11.303 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

Tgt Ion: 96 Resp: 70356
Ion Ratio Lower Upper
96 100
61 123.4 0.0 255.2
98 65.8 0.0 128.8





#31

Cyclohexane

Concen: 1.431 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

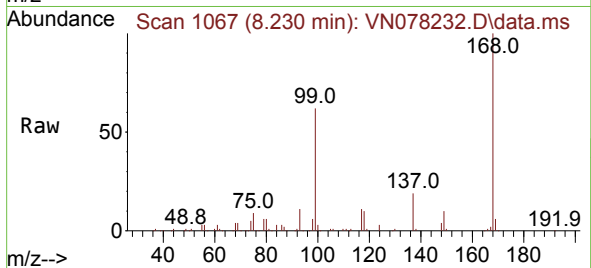
Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :



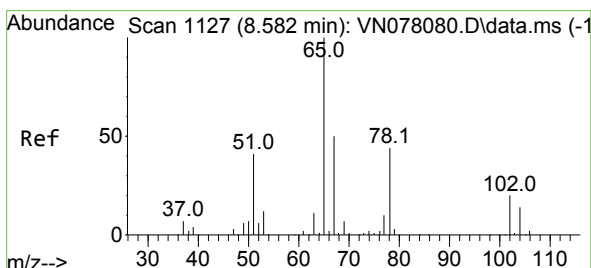
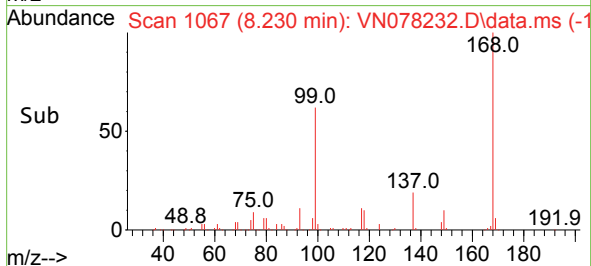
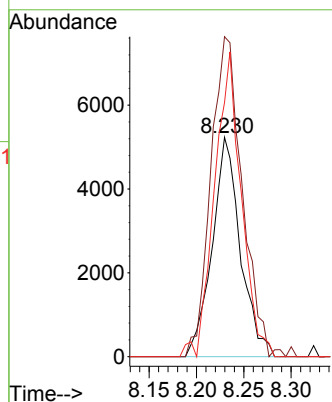
Tgt Ion: 56 Resp: 10842

Ion Ratio Lower Upper

56 100

69 145.9 26.8 40.2#

84 115.9 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 53.755 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN078232.D

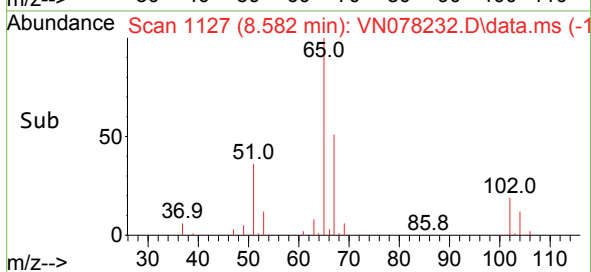
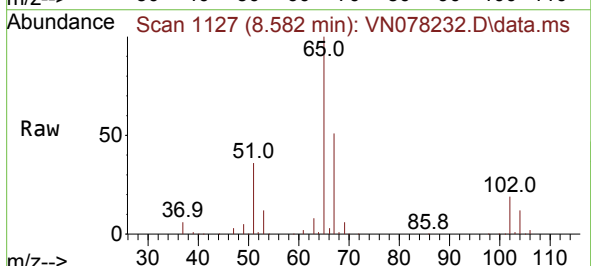
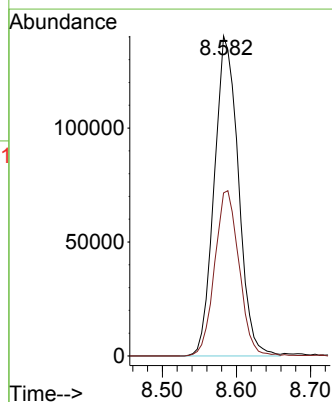
Acq: 15 Jun 2023 16:45

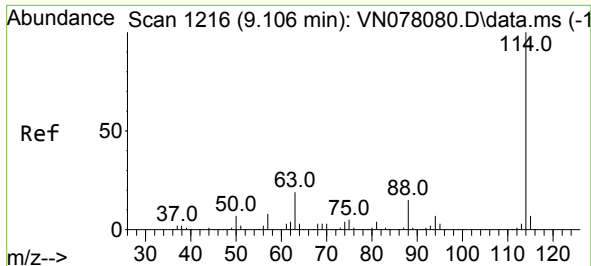
Tgt Ion: 65 Resp: 317542

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

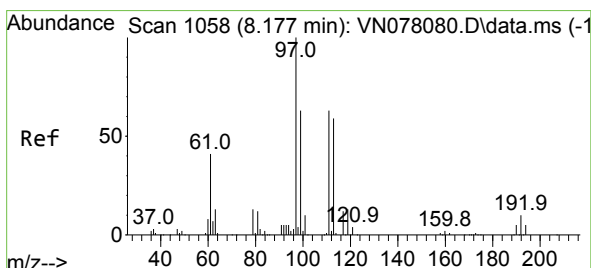
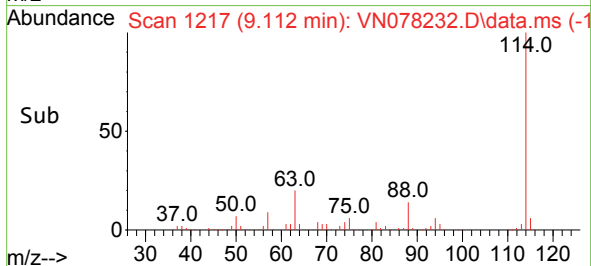
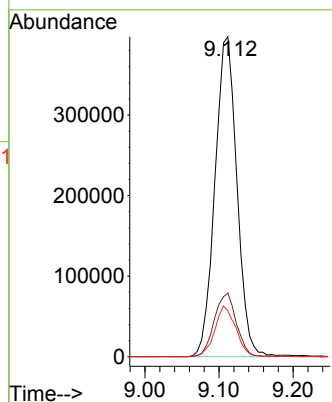
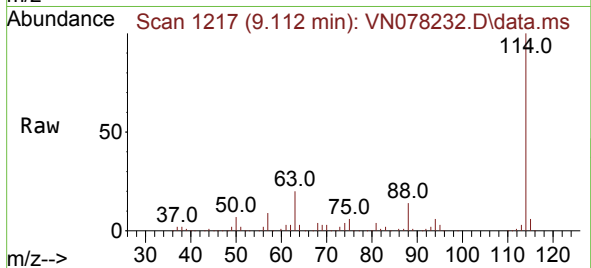
Tgt Ion:114 Resp: 818150

Ion Ratio Lower Upper

114 100

63 19.9 0.0 36.4

88 14.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.656 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

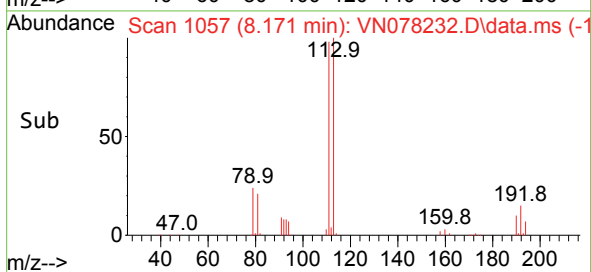
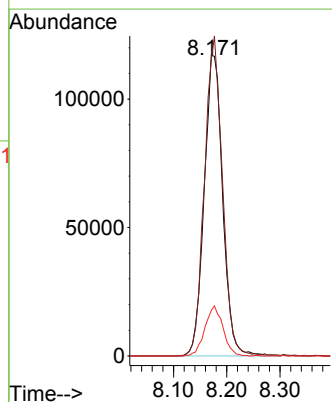
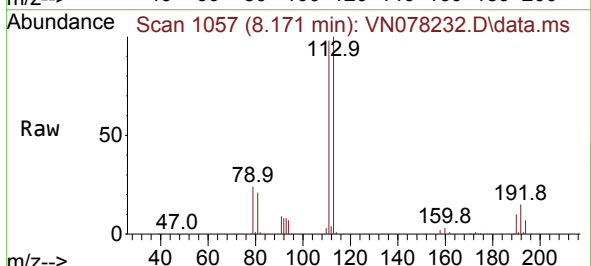
Tgt Ion:113 Resp: 282738

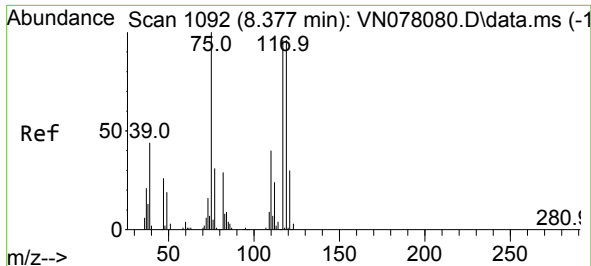
Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 16.3 12.7 19.1

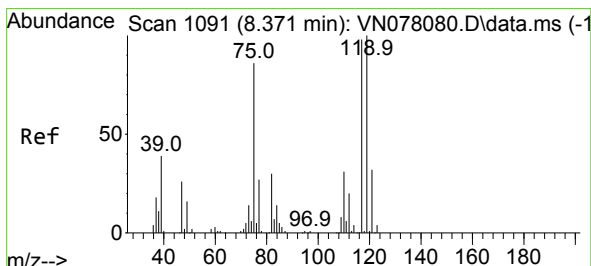
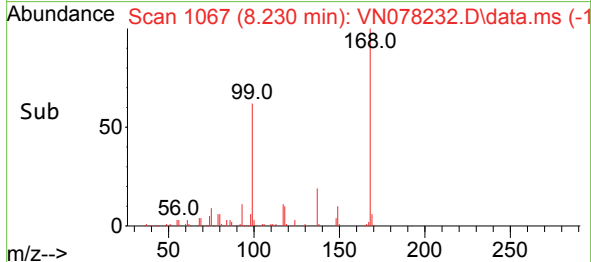
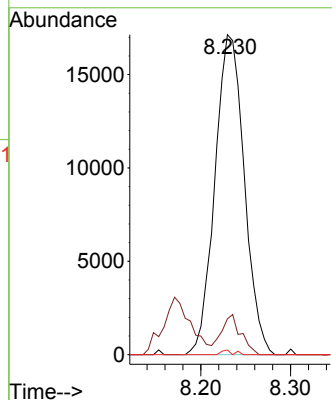
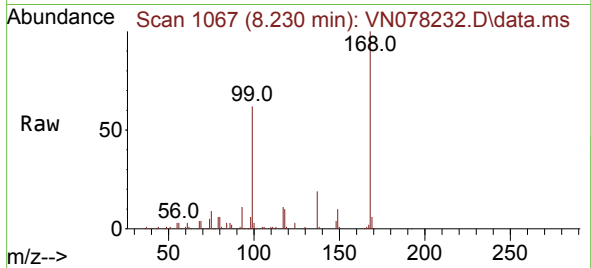




#36
1,1-Dichloropropene
Concen: 5.253 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

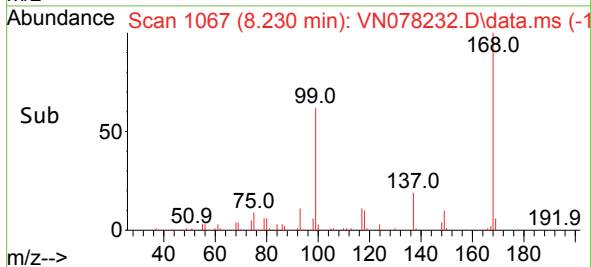
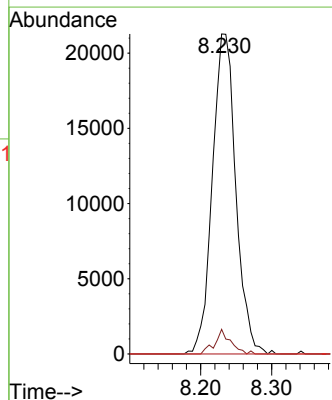
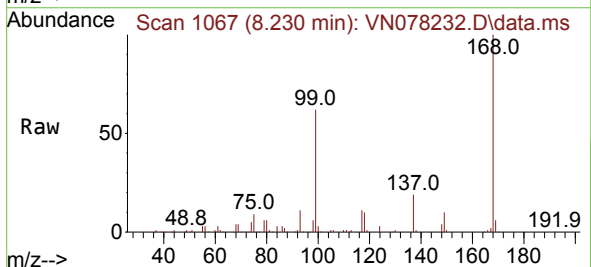
Instrument :
MSVOA_N
ClientSampleId :

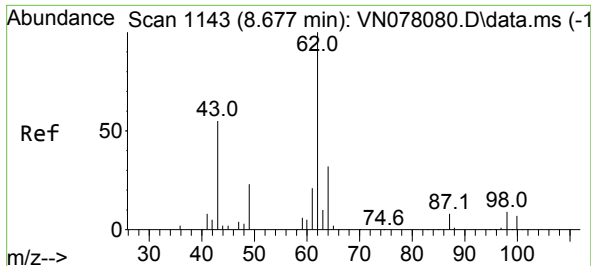
Tgt Ion: 75 Resp: 38978
Ion Ratio Lower Upper
75 100
110 8.3 19.1 57.3#
77 0.6 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.220 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078232.D
Acq: 15 Jun 2023 16:45

Tgt Ion: 117 Resp: 48730
Ion Ratio Lower Upper
117 100
119 7.7 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 1.139 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

Instrument :

MSVOA_N

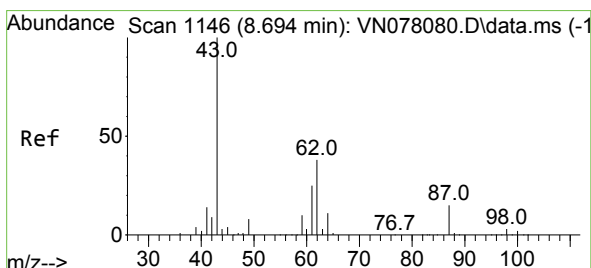
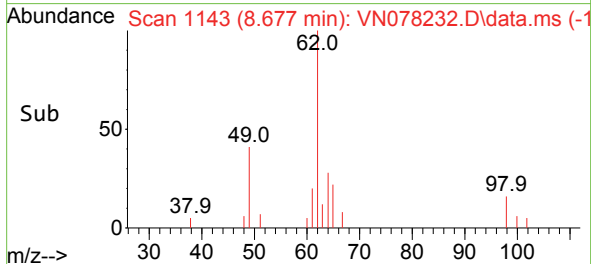
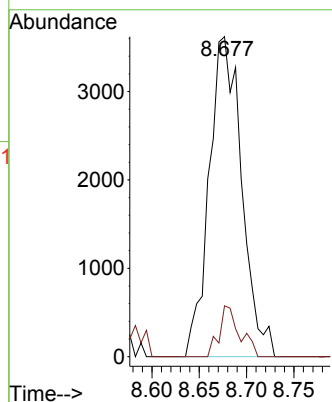
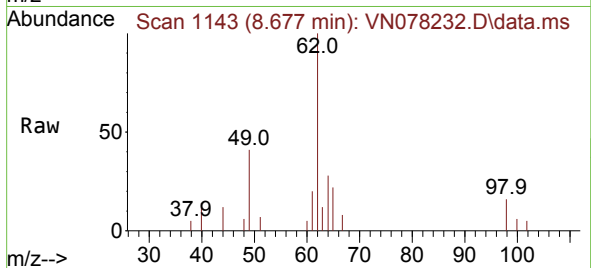
ClientSampleId :

Tgt Ion: 62 Resp: 8650

Ion Ratio Lower Upper

62 100

98 9.9 0.0 19.8



#43

Isopropyl Acetate

Concen: 0.264 ug/l

RT: 8.741 min Scan# 1154

Delta R.T. 0.047 min

Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

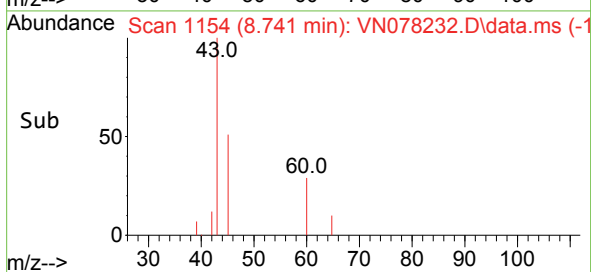
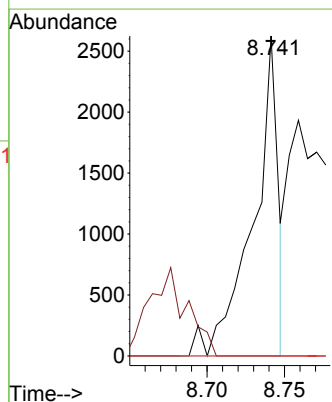
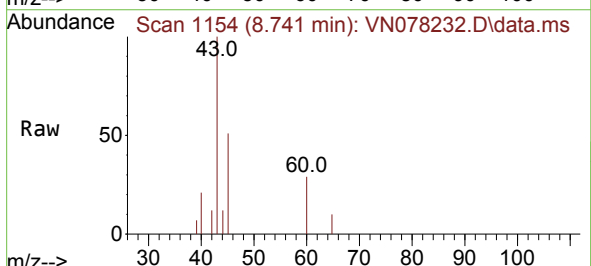
Tgt Ion: 43 Resp: 2925

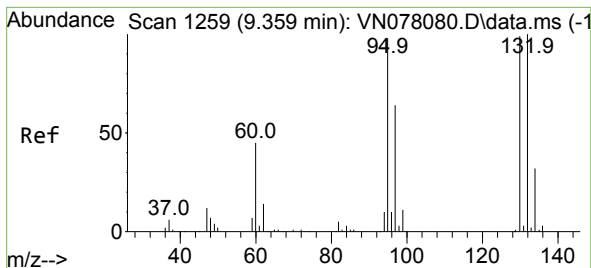
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#





#44

Trichloroethene

Concen: 11.627 ug/l

RT: 9.359 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

Instrument :

MSVOA_N

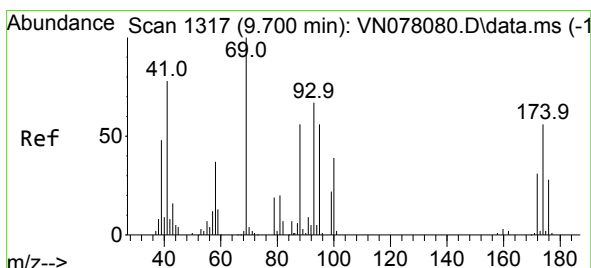
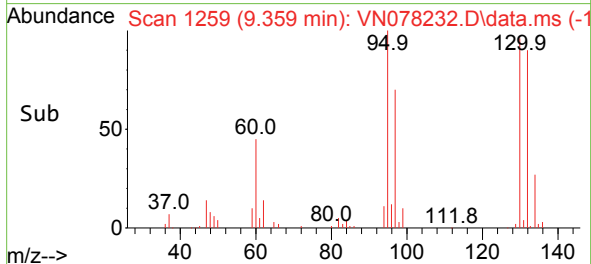
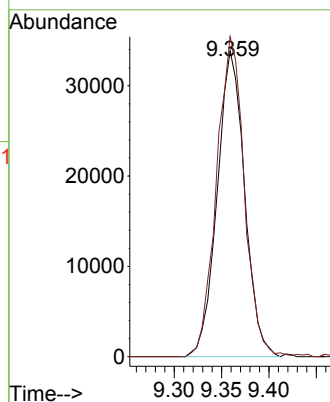
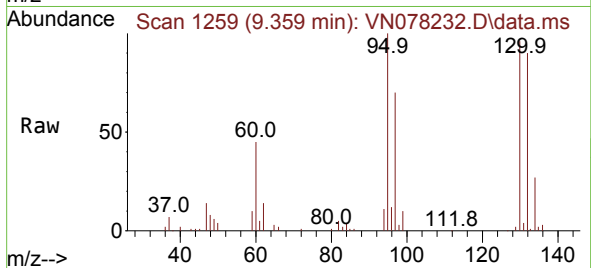
ClientSampleId :

Tgt Ion:130 Resp: 68021

Ion Ratio Lower Upper

130 100

95 104.6 0.0 204.6



#49

1,4-Dioxane

Concen: 17.233 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.012 min

Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

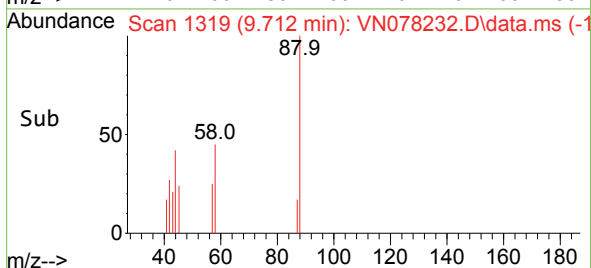
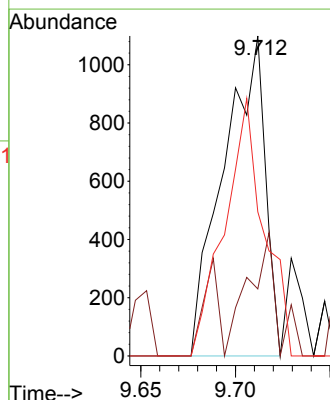
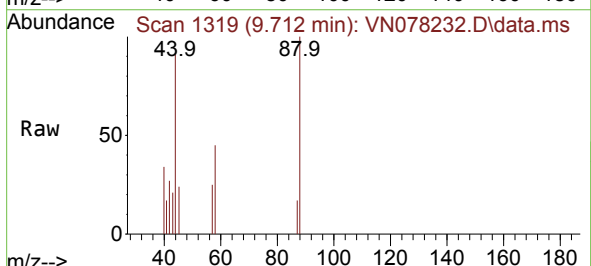
Tgt Ion: 88 Resp: 1685

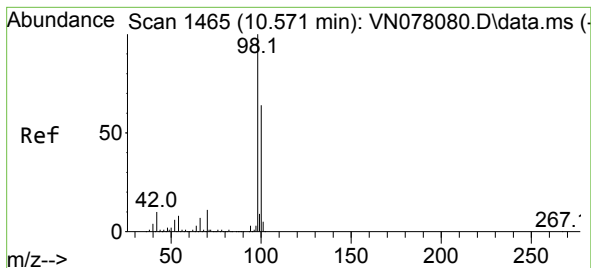
Ion Ratio Lower Upper

88 100

43 26.5 17.0 25.6#

58 76.0 47.0 70.4#





#50

Toluene-d8

Concen: 47.853 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

Instrument :

MSVOA_N

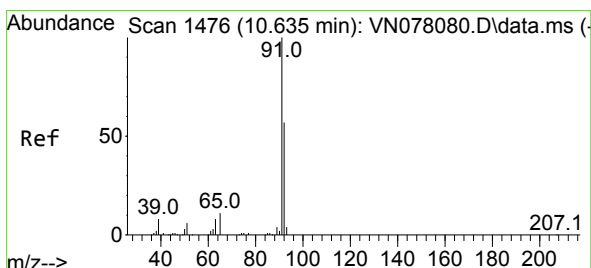
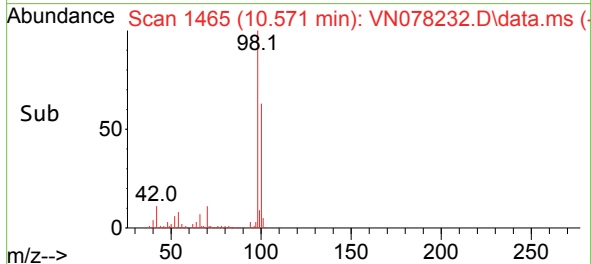
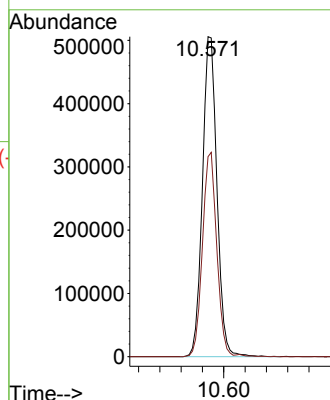
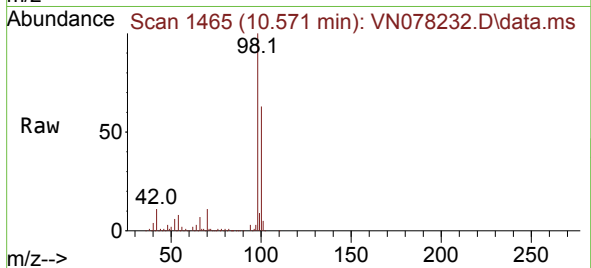
ClientSampleId :

Tgt Ion: 98 Resp: 954310

Ion Ratio Lower Upper

98 100

100 63.3 52.0 78.0



#52

Toluene

Concen: 0.954 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN078232.D

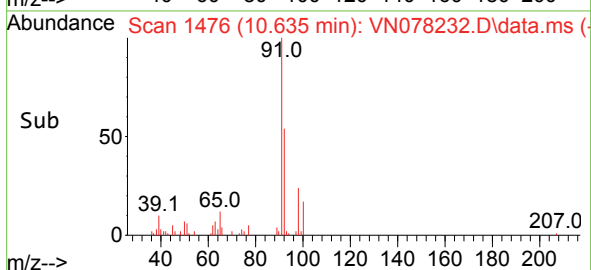
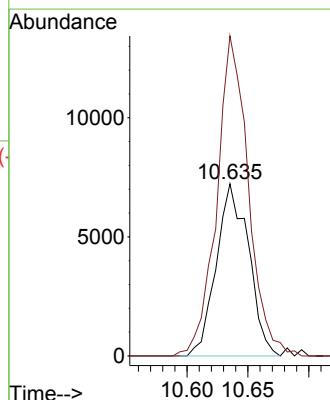
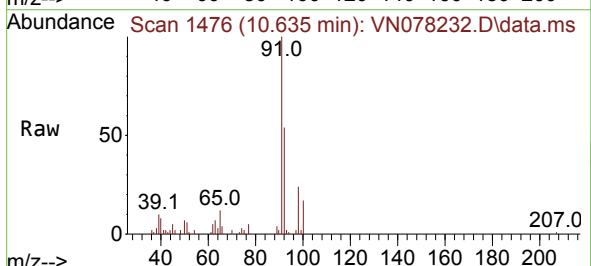
Acq: 15 Jun 2023 16:45

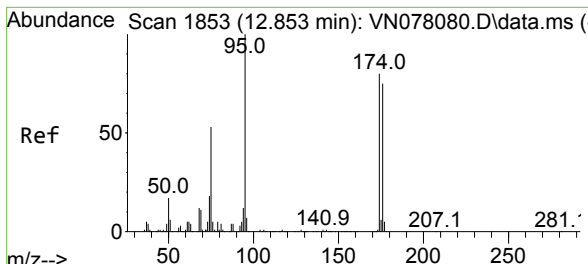
Tgt Ion: 92 Resp: 13341

Ion Ratio Lower Upper

92 100

91 181.8 137.4 206.0

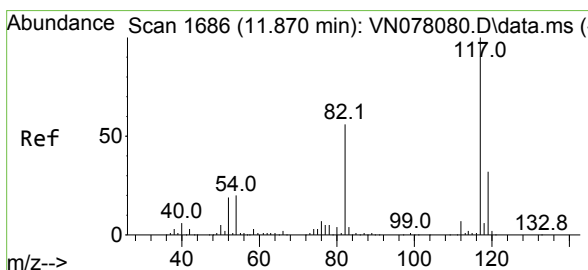
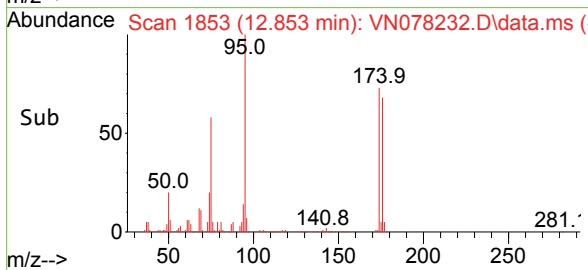
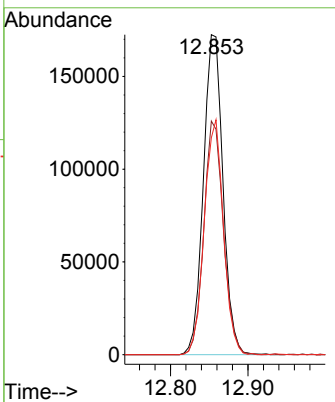
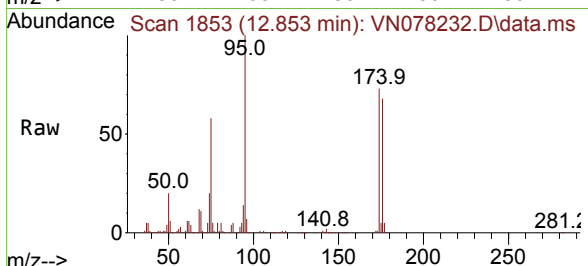




#62
 4-Bromofluorobenzene
 Concen: 48.786 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN078232.D
 Acq: 15 Jun 2023 16:45

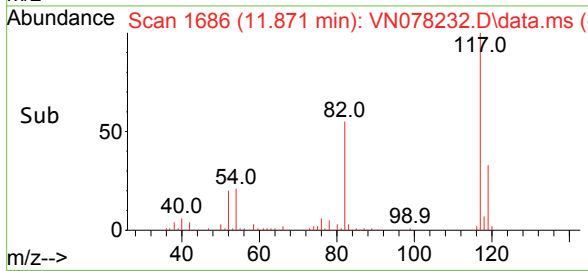
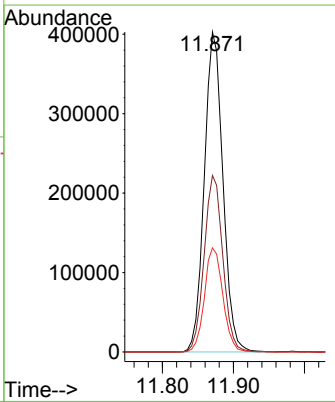
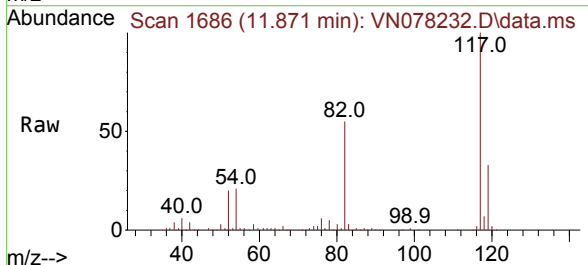
Instrument :
 MSVOA_N
 ClientSampleId :

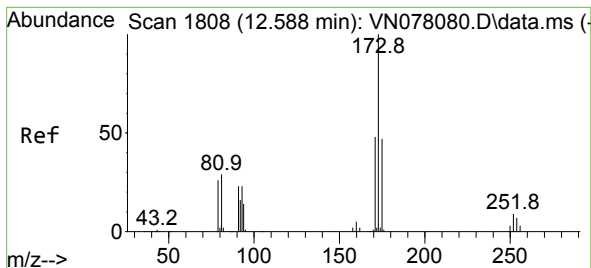
Tgt Ion:	95	Resp:	302459
Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	143.8
176	72.0	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN078232.D
 Acq: 15 Jun 2023 16:45

Tgt Ion:	117	Resp:	733193
Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.0	66.0
119	32.6	25.6	38.4





#71

Bromoform

Concen: 0.530 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

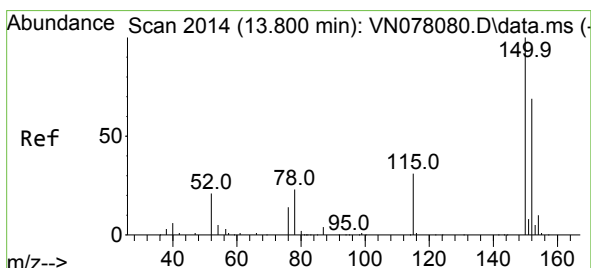
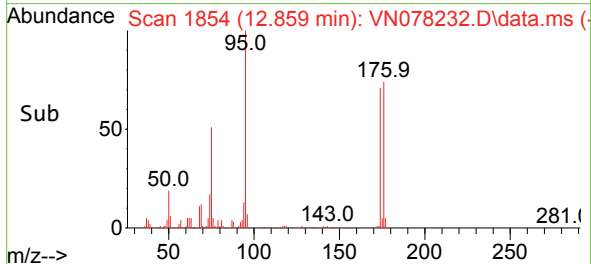
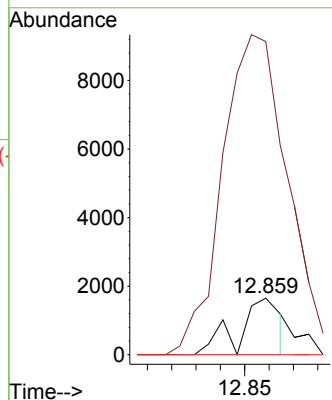
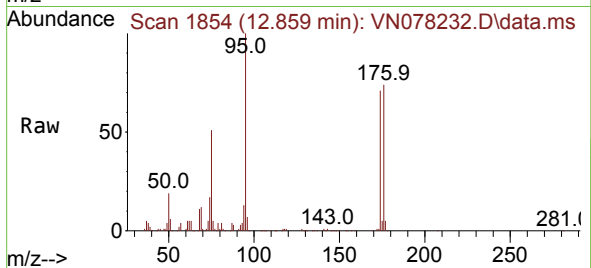
Tgt Ion:173 Resp: 1974

Ion Ratio Lower Upper

173 100

175 749.3 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# 2014

Delta R.T. 0.000 min

Lab File: VN078232.D

Acq: 15 Jun 2023 16:45

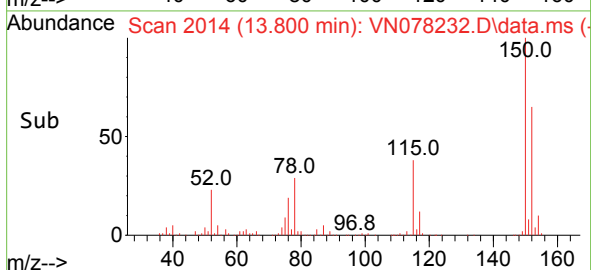
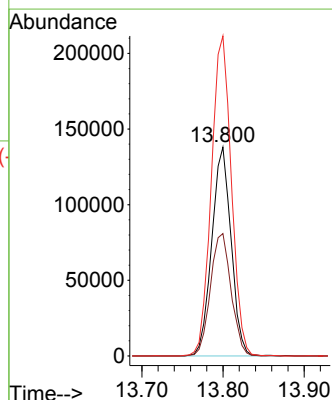
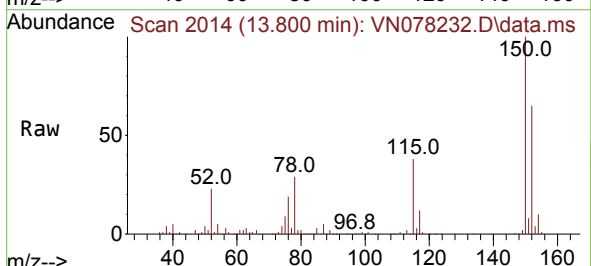
Tgt Ion:152 Resp: 228438

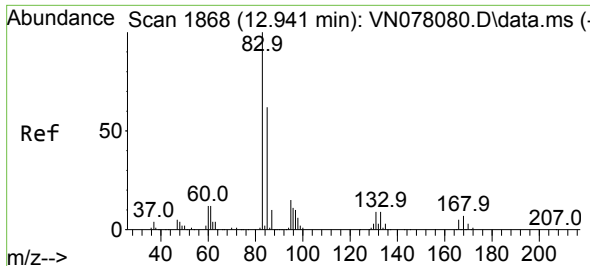
Ion Ratio Lower Upper

152 100

115 62.6 32.3 96.8

150 158.6 0.0 355.8

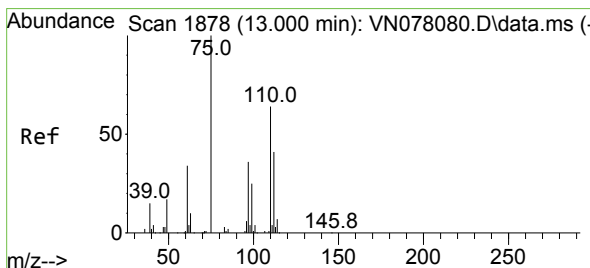
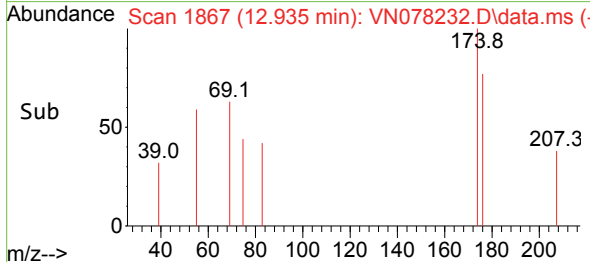
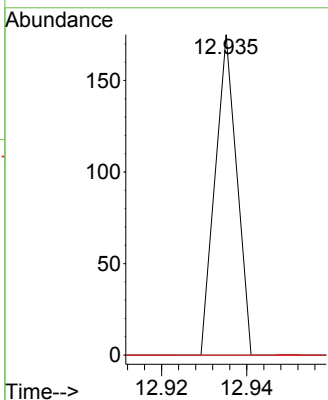
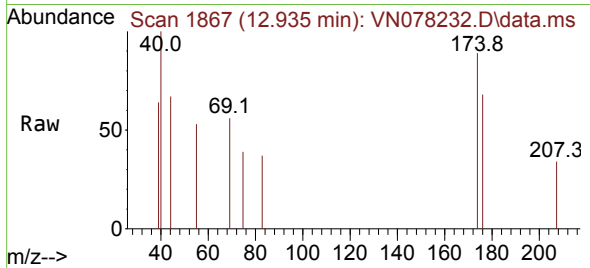




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.935 min Scan# 1867
 Delta R.T. -0.006 min
 Lab File: VN078232.D
 Acq: 15 Jun 2023 16:45

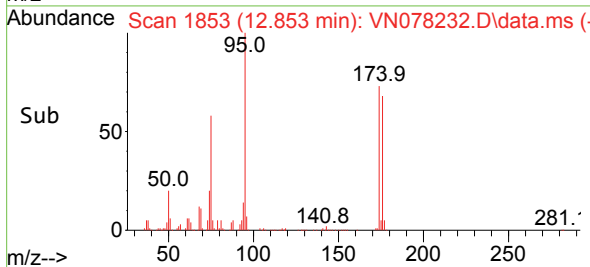
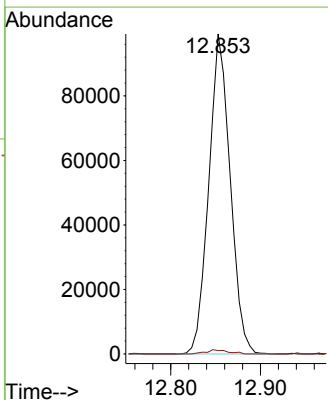
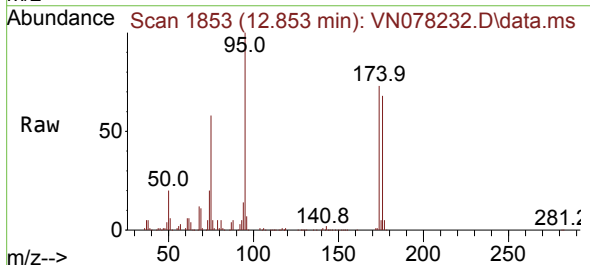
Instrument :
 MSVOA_N
 ClientSampleId :

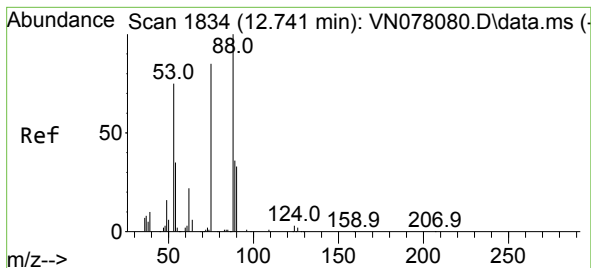
Tgt Ion: 83 Resp: 62
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.0 15.0#
 85 0.0 31.9 95.7#



#76
 1,2,3-Trichloropropane
 Concen: 30.439 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN078232.D
 Acq: 15 Jun 2023 16:45

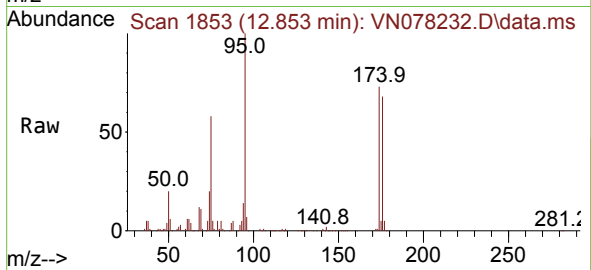
Tgt Ion: 75 Resp: 164381
 Ion Ratio Lower Upper
 75 100
 77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 93.518 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078232.D
 Acq: 15 Jun 2023 16:45

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 164381
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

