

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081823\
 Data File : VN078946.D
 Acq On : 18 Aug 2023 16:47
 Operator : JC\MD
 Sample : PB154902ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 23:44:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

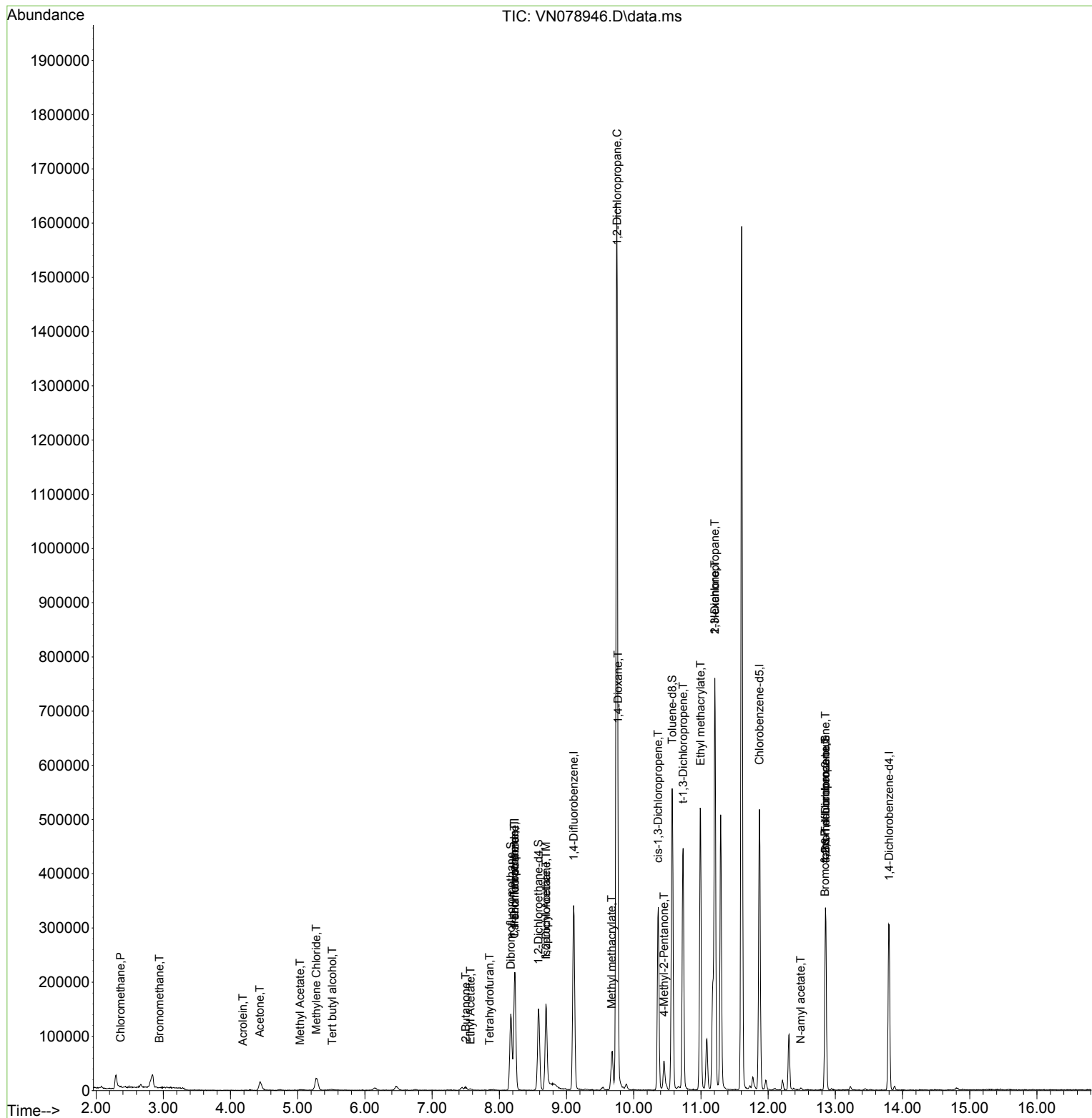
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	154149	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	289791	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	283495	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	80677	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	118796	49.525	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.060%
35) Dibromofluoromethane	8.171	113	99520	51.017	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.040%
50) Toluene-d8	10.571	98	381123	52.618	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.240%
62) 4-Bromofluorobenzene	12.853	95	107157	45.261	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.520%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	961	0.322	ug/l #	79
5) Bromomethane	2.942	94	413	0.275	ug/l #	48
11) Tert butyl alcohol	5.512	59	816	2.027	ug/l #	72
13) Acrolein	4.183	56	53	7.048	ug/l #	16
16) Acetone	4.436	43	30325	30.639	ug/l #	82
18) Methyl Acetate	5.036	43	1514	0.362	ug/l #	61
20) Methylene Chloride	5.277	84	17005	8.062	ug/l #	67
25) 2-Butanone	7.500	43	8918	5.620	ug/l #	75
29) Tetrahydrofuran	7.853	42	253	0.241	ug/l #	45
31) Cyclohexane	8.230	56	3955	Below Cal	#	24
36) 1,1-Dichloropropene	8.224	75	13401	4.567	ug/l #	49
37) Ethyl Acetate	7.571	43	1436	0.437	ug/l #	83
38) Carbon Tetrachloride	8.224	117	16414	5.583	ug/l #	15
42) 1,2-Dichloroethane	8.694	62	886	0.273	ug/l #	73
43) Isopropyl Acetate	8.694	43	183038	31.542	ug/l #	76
45) 1,2-Dichloropropane	9.753	63	1786	0.773	ug/l #	45
48) Methyl methacrylate	9.671	41	5148	1.958	ug/l #	3
49) 1,4-Dioxane	9.765	88	68	1.518	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	43283	12.576	ug/l #	76
53) t-1,3-Dichloropropene	10.735	75	1048	0.312	ug/l #	59
54) cis-1,3-Dichloropropene	10.365	75	55564	15.211	ug/l #	72
56) Ethyl methacrylate	10.994	69	2024	0.612	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7606	1.992	ug/l #	42
59) 2-Hexanone	11.206	43	101379	40.668	ug/l #	47
71) Bromoform	12.847	173	512	0.309	ug/l #	1
74) N-amyl acetate	12.482	43	2306	0.679	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	60445	31.094	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	60445	79.433	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.565	75	64	Below Cal	#	4

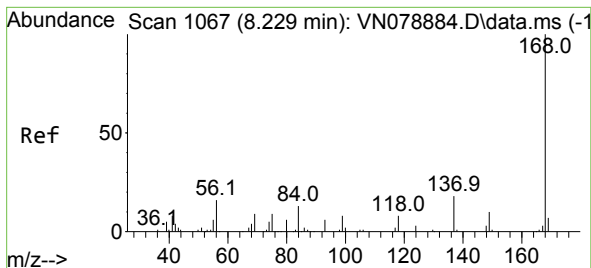
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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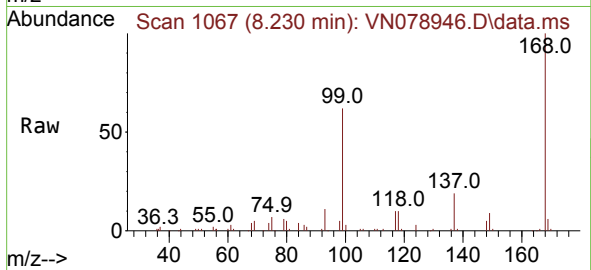
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 16 02:42:02 2023
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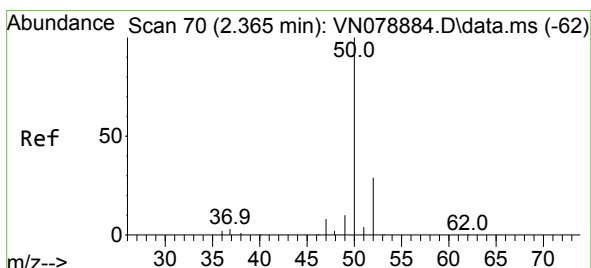
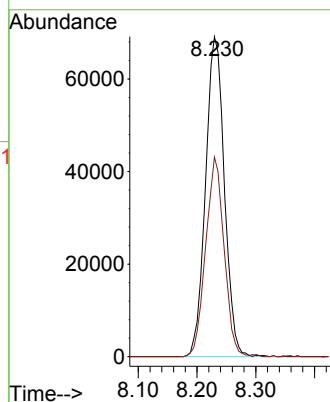
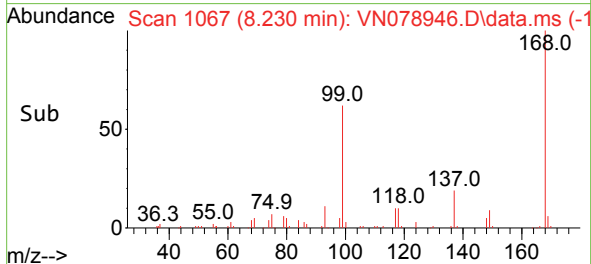


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Instrument :
MSVOA_N
ClientSampleId :

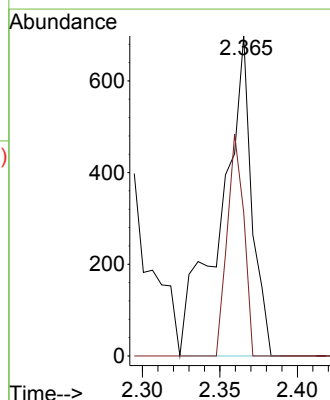
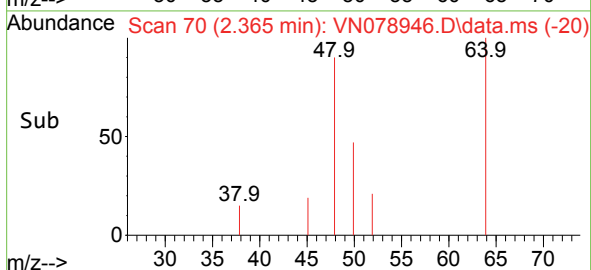
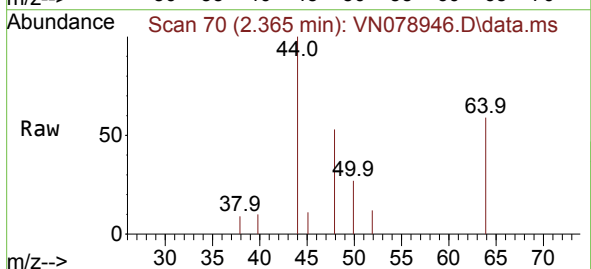


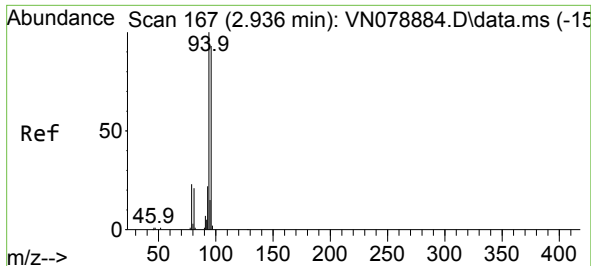
Tgt Ion:168 Resp: 154149
Ion Ratio Lower Upper
168 100
99 62.4 53.0 79.6



#3
Chloromethane
Concen: 0.322 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

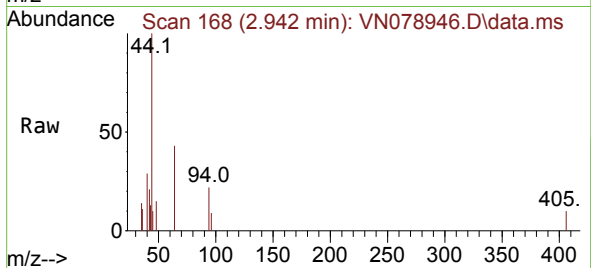
Tgt Ion: 50 Resp: 961
Ion Ratio Lower Upper
50 100
52 44.8 26.5 39.7#



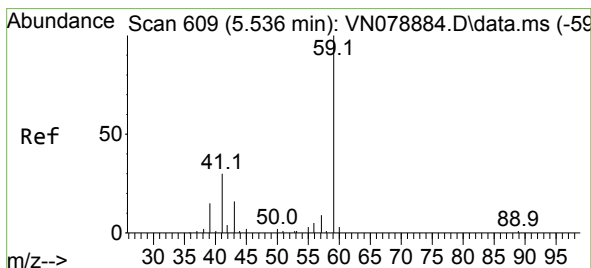
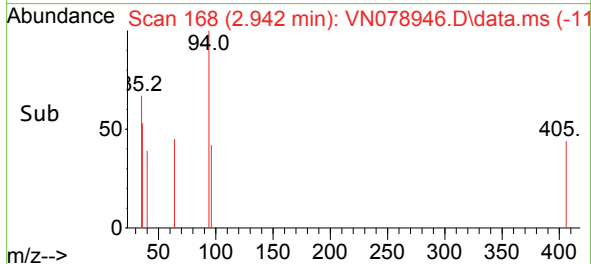
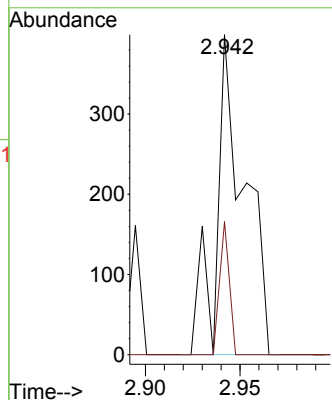


#5
Bromomethane
Concen: 0.275 ug/l
RT: 2.942 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Instrument :
MSVOA_N
ClientSampleId :

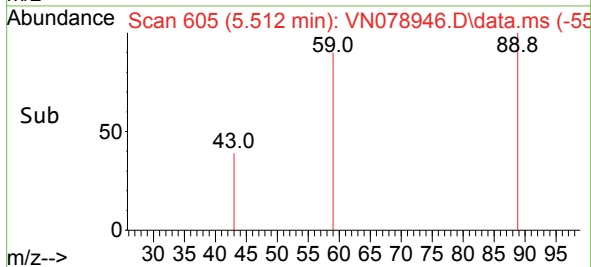
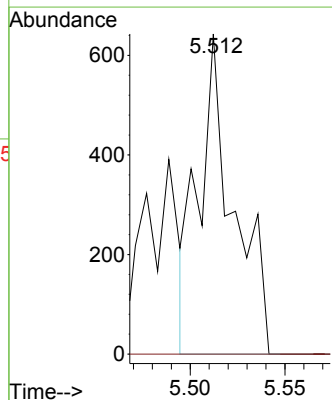
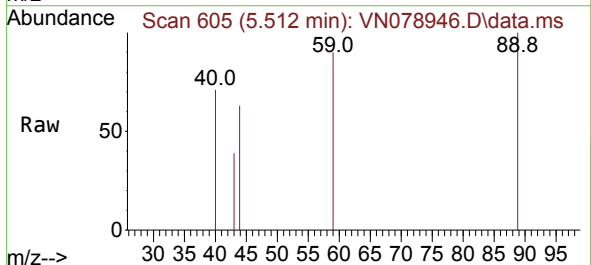


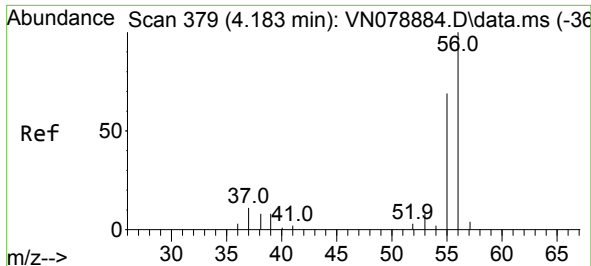
Tgt Ion: 94 Resp: 413
Ion Ratio Lower Upper
94 100
96 41.6 73.1 109.7#



#11
Tert butyl alcohol
Concen: 2.027 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.030 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Tgt Ion: 59 Resp: 816
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

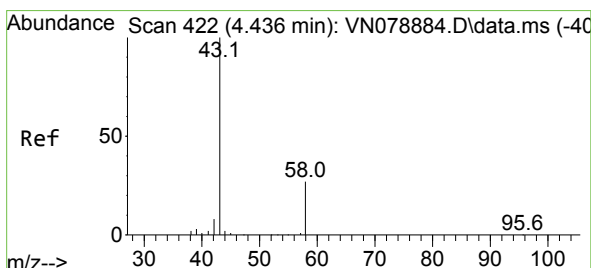
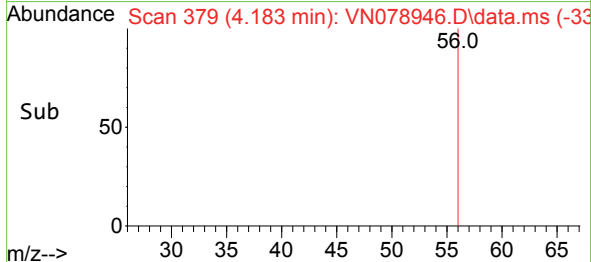
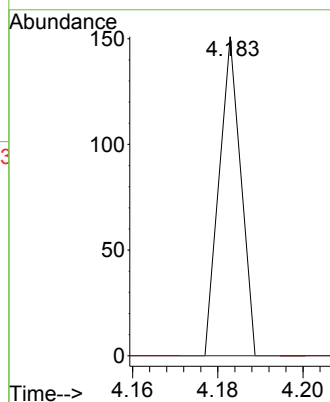
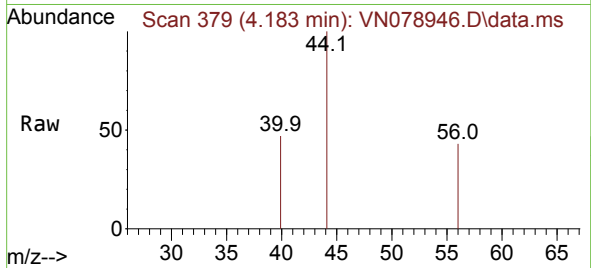




#13
Acrolein
Concen: 7.048 ug/l
RT: 4.183 min Scan# 379
Delta R.T. -0.012 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

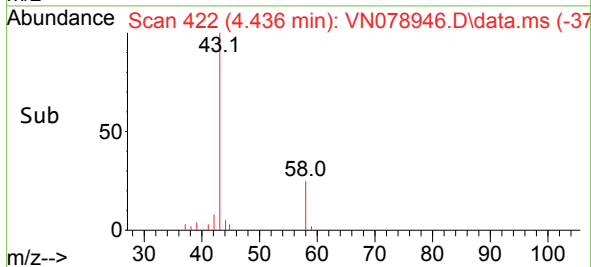
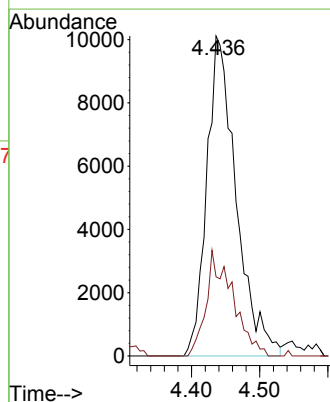
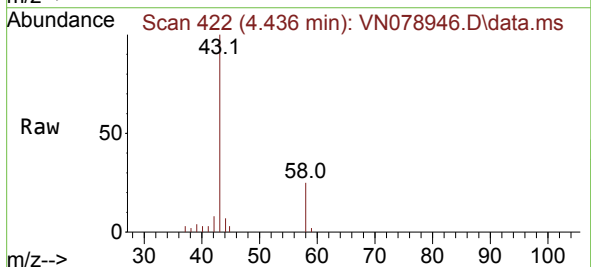
Instrument :
MSVOA_N
ClientSampleId :

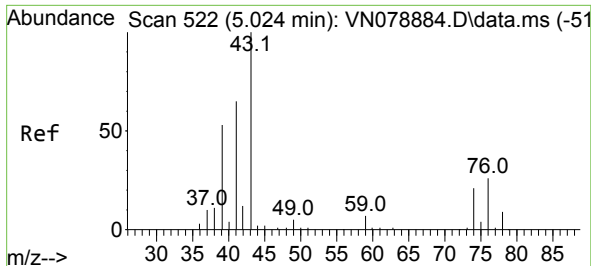
Tgt Ion: 56 Resp: 53
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 30.639 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Tgt Ion: 43 Resp: 30325
Ion Ratio Lower Upper
43 100
58 24.7 28.0 42.0#

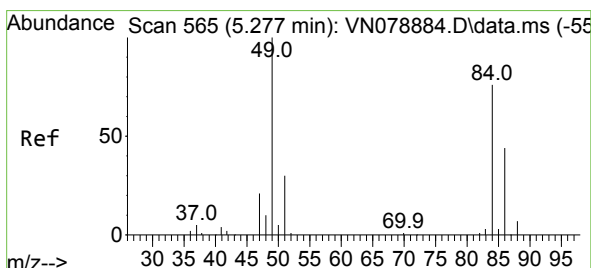
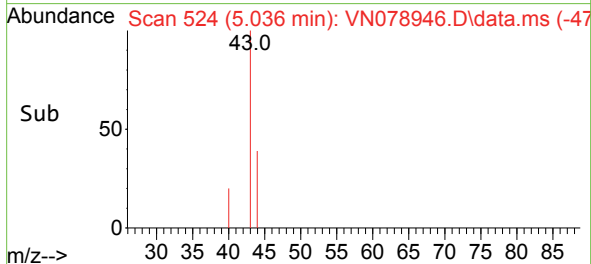
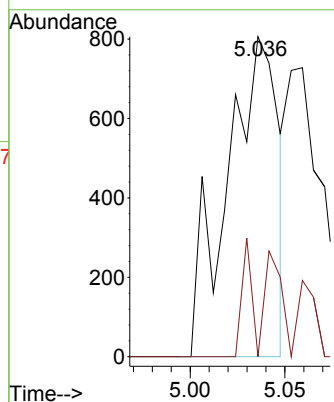
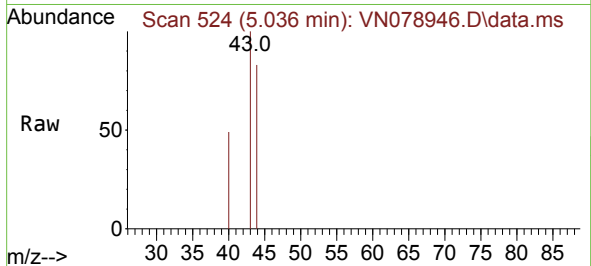




#18
Methyl Acetate
Concen: 0.362 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

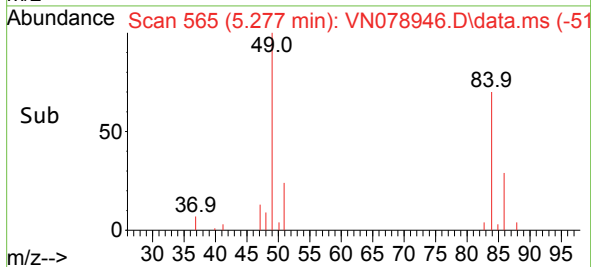
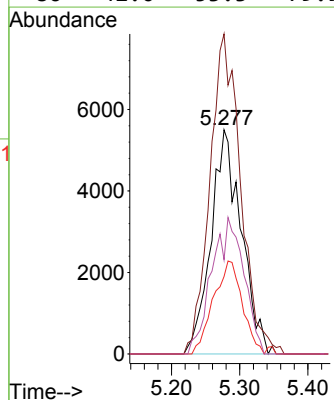
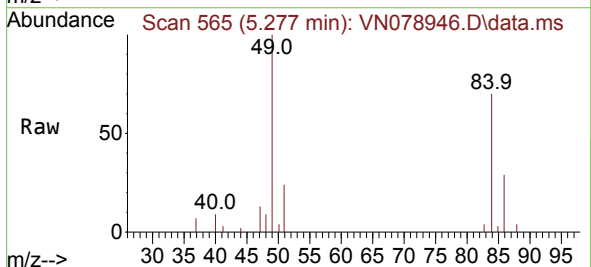
Instrument :
MSVOA_N
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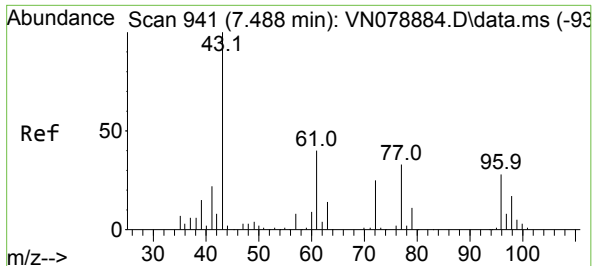
Tgt Ion: 43 Resp: 1514
Ion Ratio Lower Upper
43 100
74 10.9 26.2 39.4#



#20
Methylene Chloride
Concen: 8.062 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Tgt Ion: 84 Resp: 17005
Ion Ratio Lower Upper
84 100
49 142.8 79.7 119.5#
51 34.5 25.2 37.8
86 42.0 53.3 79.9#





#25

2-Butanone

Concen: 5.620 ug/l

RT: 7.500 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

Instrument :

MSVOA_N

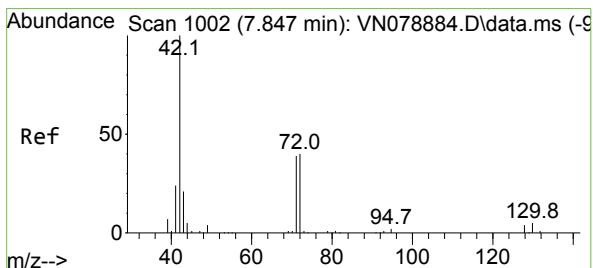
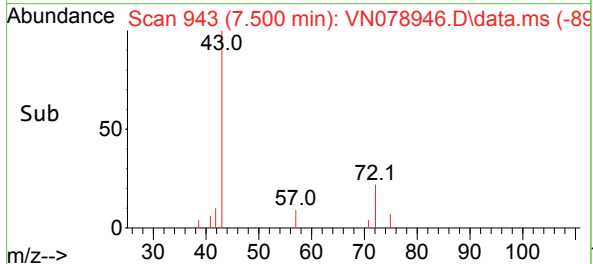
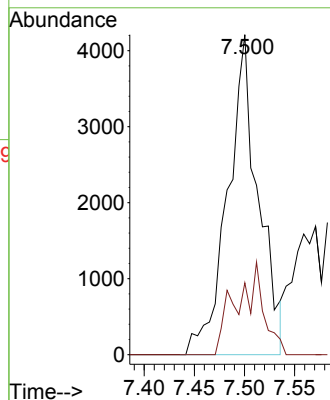
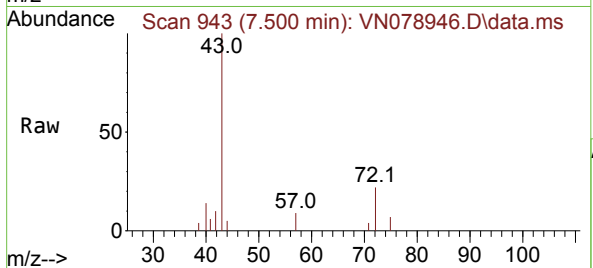
ClientSampleId :

Tgt Ion: 43 Resp: 8918

Ion Ratio Lower Upper

43 100

72 22.5 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.241 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.006 min

Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

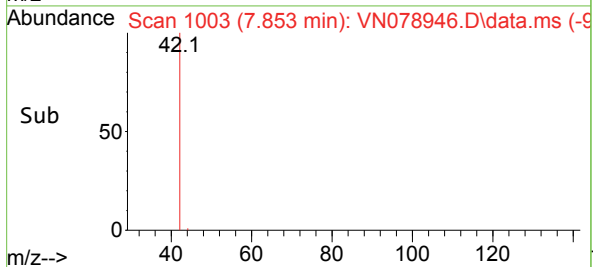
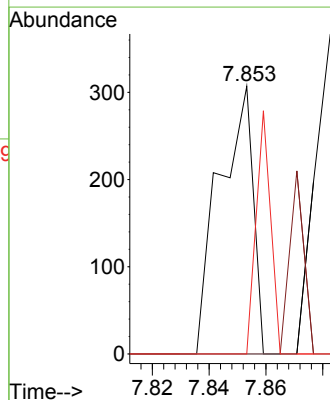
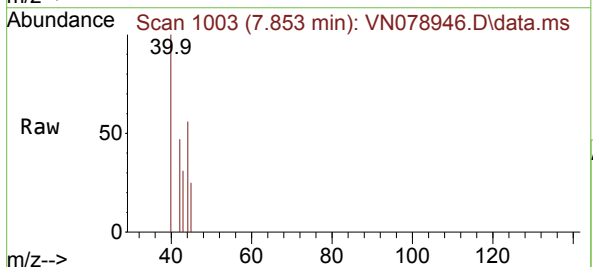
Tgt Ion: 42 Resp: 253

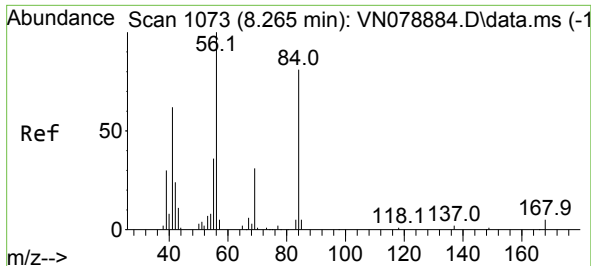
Ion Ratio Lower Upper

42 100

72 0.0 49.8 74.6#

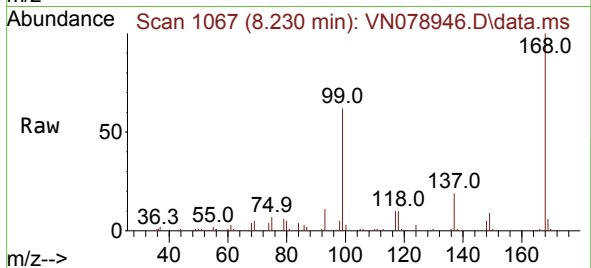
71 38.7 47.4 71.2#



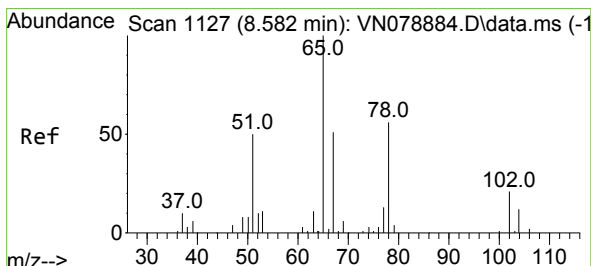
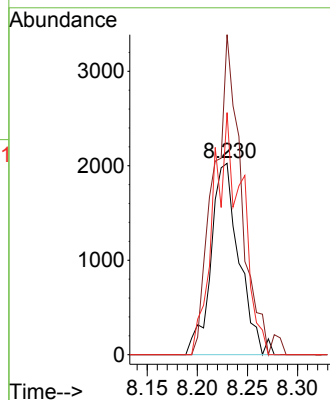
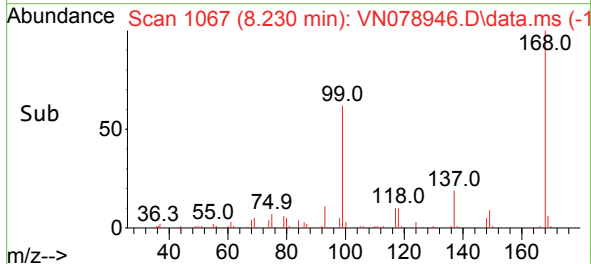


#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Instrument :
MSVOA_N
ClientSampleId :

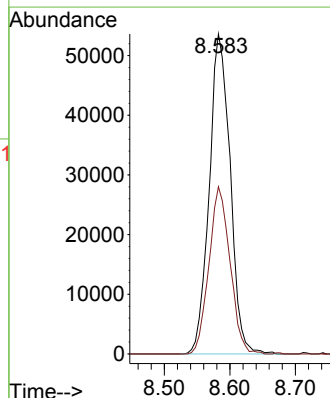
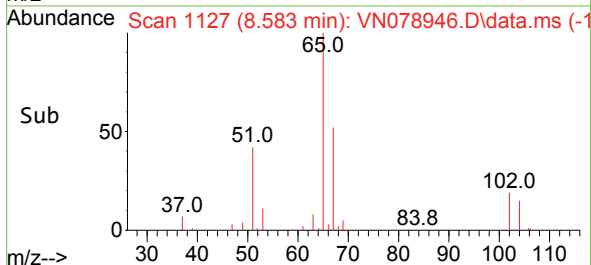
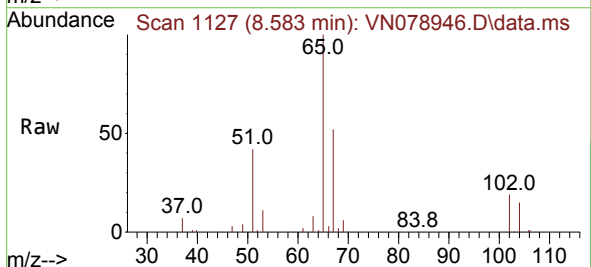


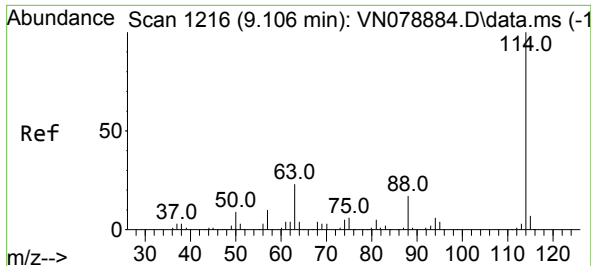
Tgt Ion: 56 Resp: 3955
Ion Ratio Lower Upper
56 100
69 167.2 26.8 40.2#
84 126.5 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 49.525 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Tgt Ion: 65 Resp: 118796
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

Instrument :

MSVOA_N

ClientSampleId :

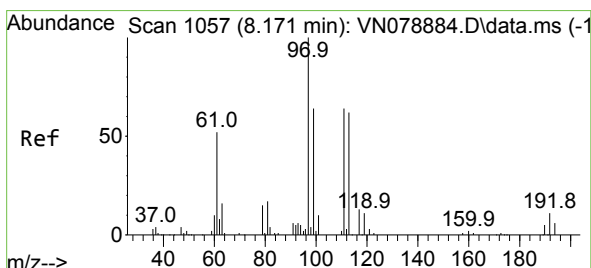
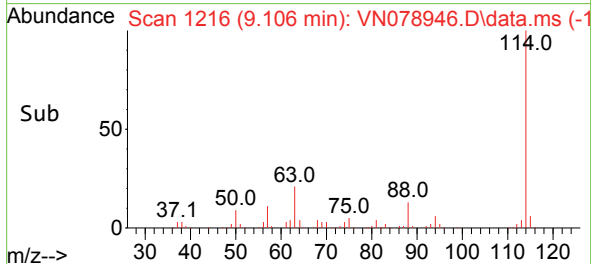
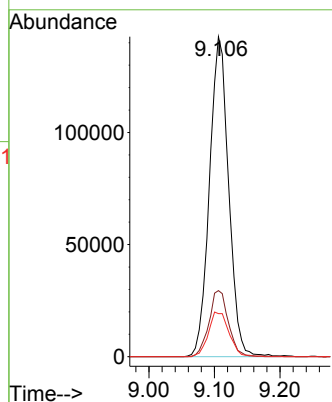
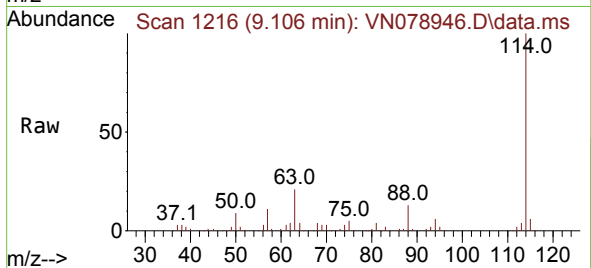
Tgt Ion:114 Resp: 289791

Ion Ratio Lower Upper

114 100

63 20.6 0.0 36.4

88 13.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.017 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

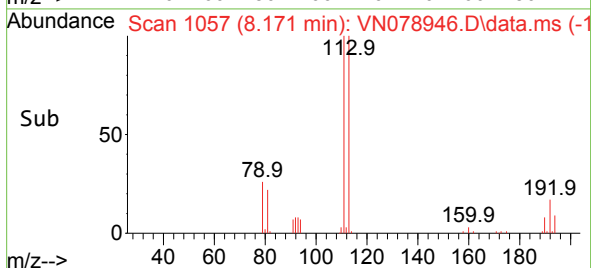
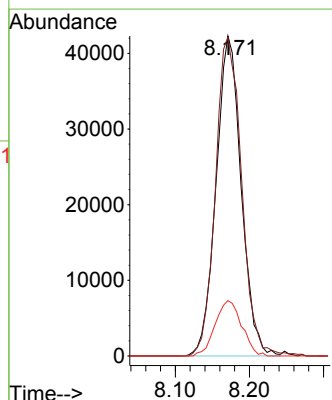
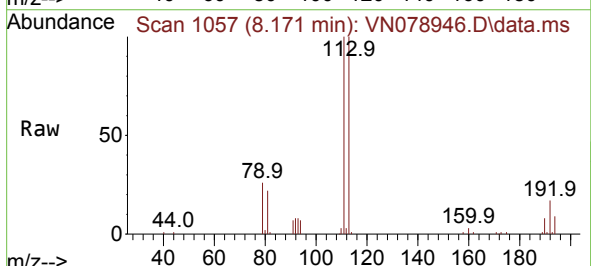
Tgt Ion:113 Resp: 99520

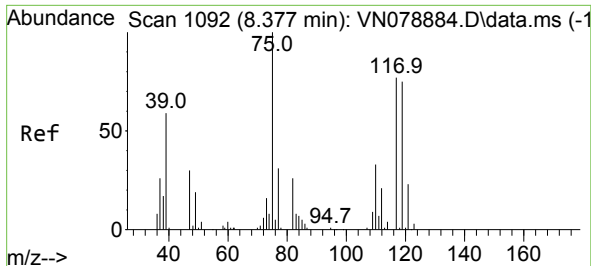
Ion Ratio Lower Upper

113 100

111 103.5 82.6 123.8

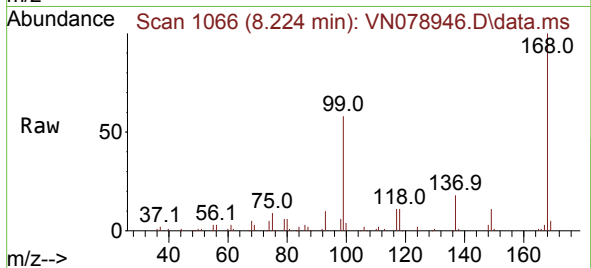
192 18.3 12.7 19.1



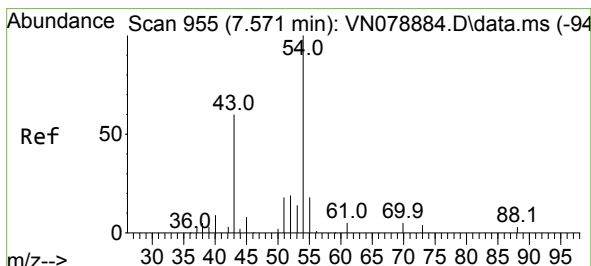
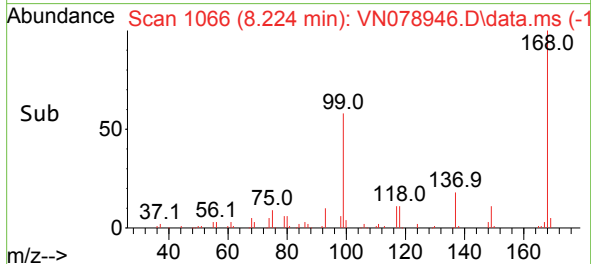
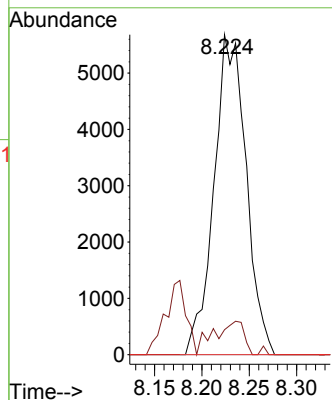


#36
1,1-Dichloropropene
Concen: 4.567 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Instrument :
MSVOA_N
ClientSampleId :

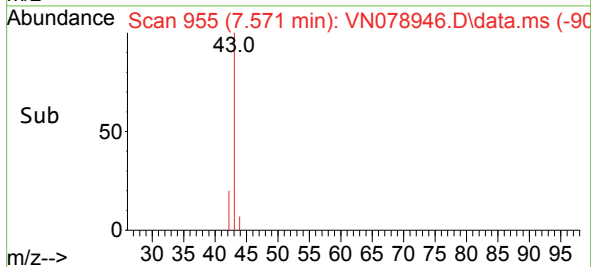
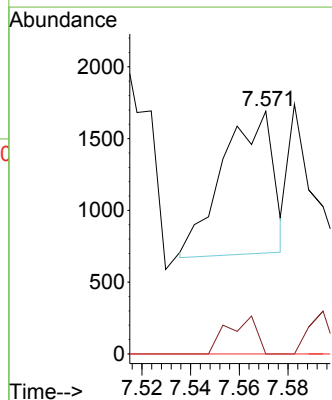
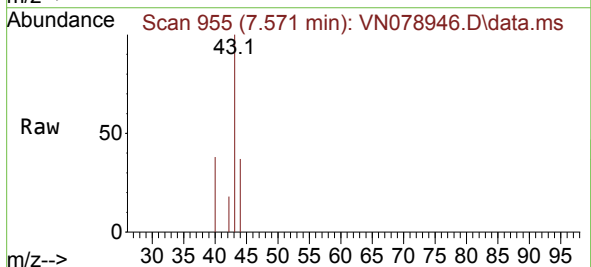


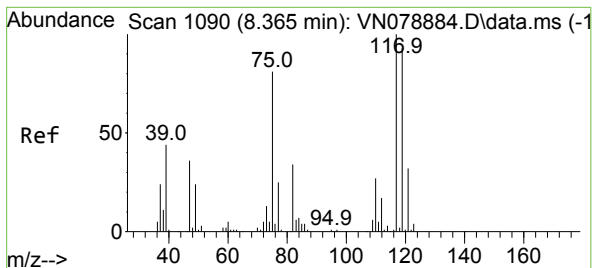
Tgt Ion: 75 Resp: 13401
Ion Ratio Lower Upper
75 100
110 9.8 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.437 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Tgt Ion: 43 Resp: 1436
Ion Ratio Lower Upper
43 100
61 15.3 13.2 19.8
70 0.0 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.583 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

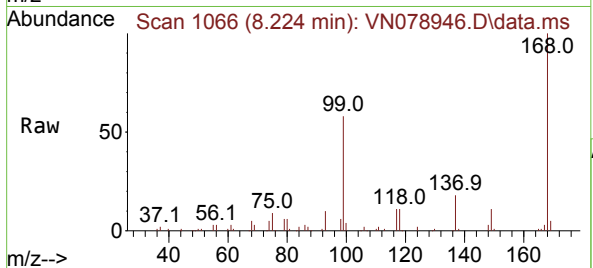
Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

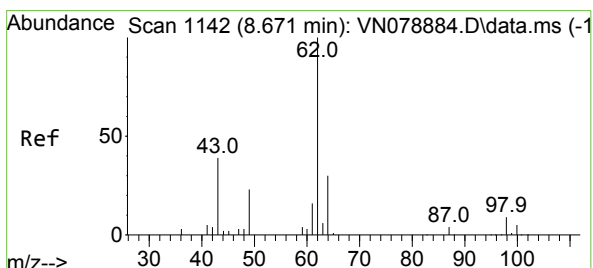
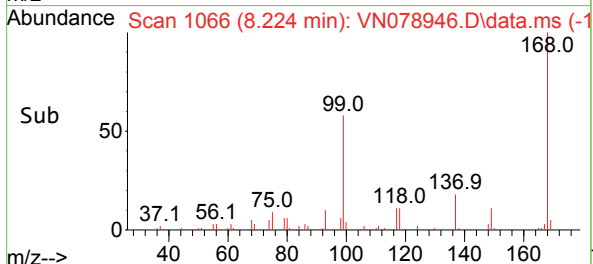
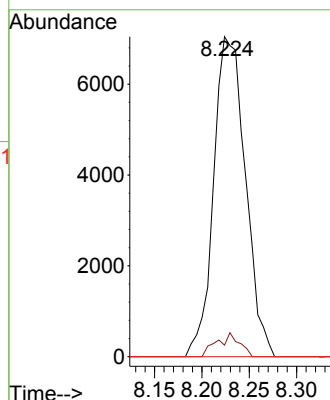
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	117	Resp:	16414
Ion	Ratio	Lower	Upper
117	100		
119	3.6	77.3	115.9#
121	0.0	23.3	34.9#



#42

1,2-Dichloroethane

Concen: 0.273 ug/l

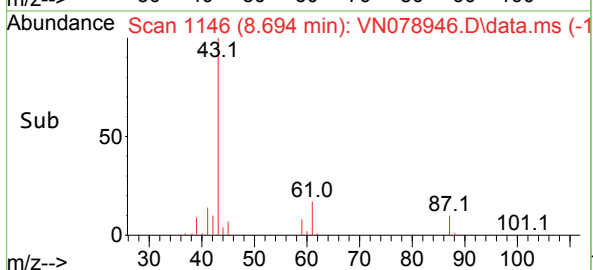
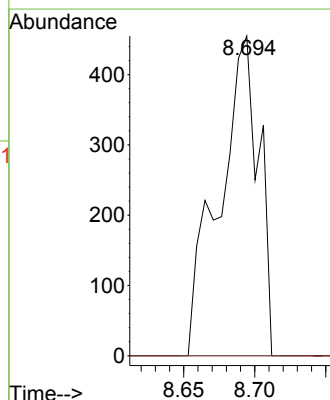
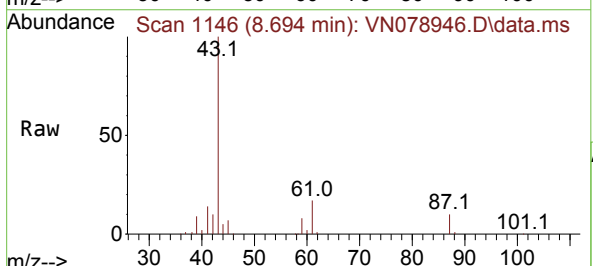
RT: 8.694 min Scan# 1146

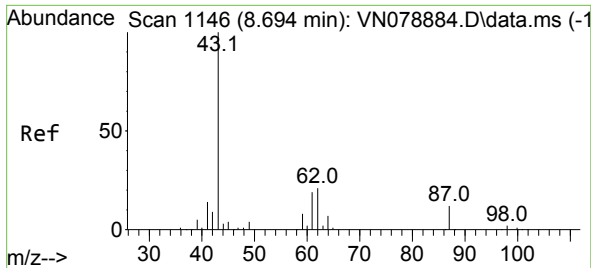
Delta R.T. 0.017 min

Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

Tgt Ion:	62	Resp:	886
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	19.8

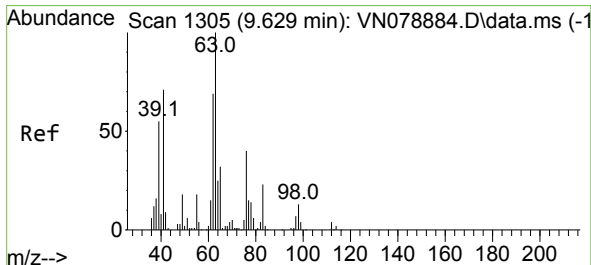
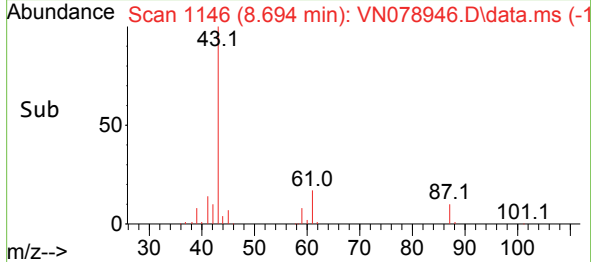
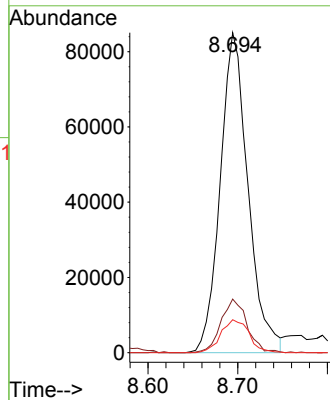
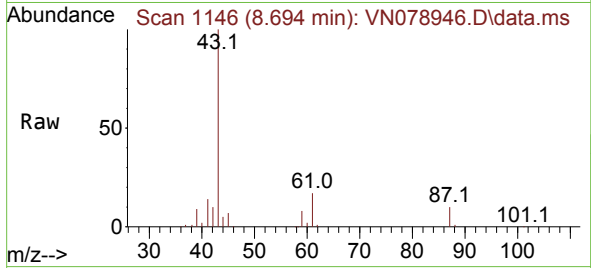




#43
Isopropyl Acetate
Concen: 31.542 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

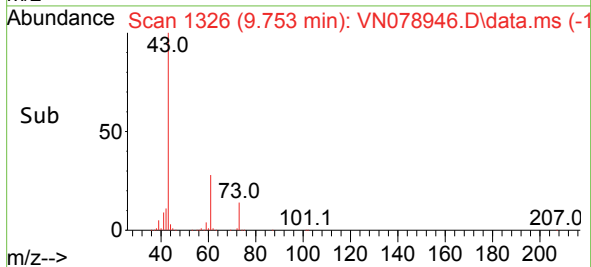
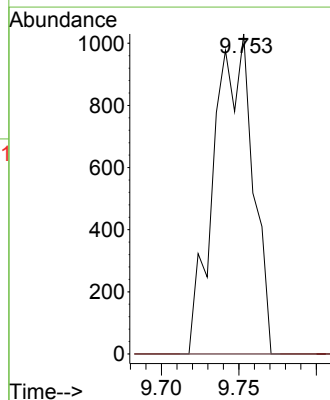
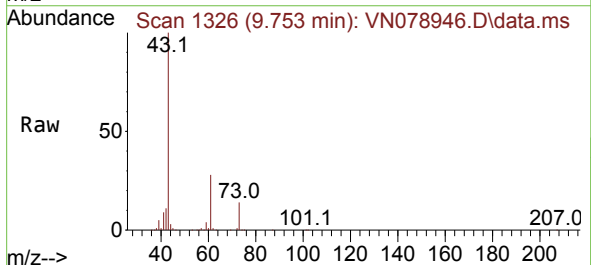
Instrument :
MSVOA_N
ClientSampleId :

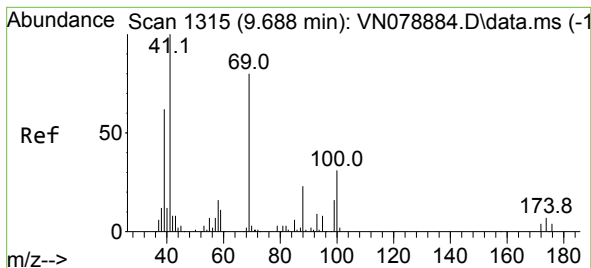
Tgt Ion: 43 Resp: 183038
Ion Ratio Lower Upper
43 100
61 15.7 24.7 37.1#
87 10.4 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.773 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.129 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Tgt Ion: 63 Resp: 1786
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 1.958 ug/l

RT: 9.671 min Scan# 11

Delta R.T. -0.017 min

Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

Instrument :

MSVOA_N

ClientSampleId :

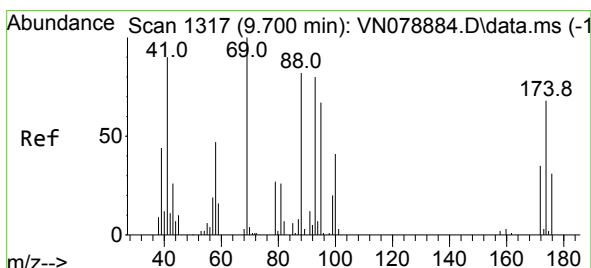
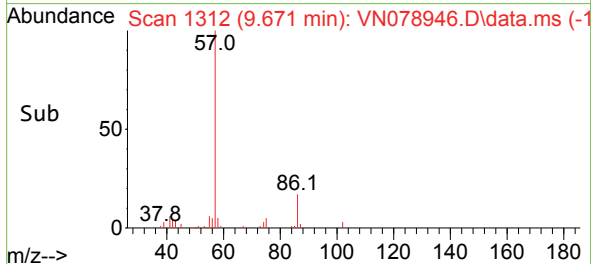
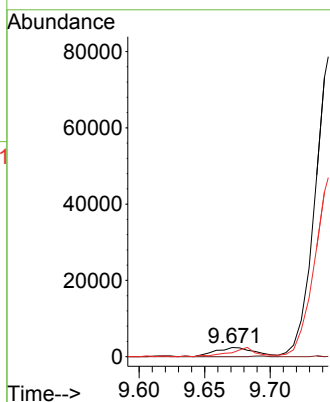
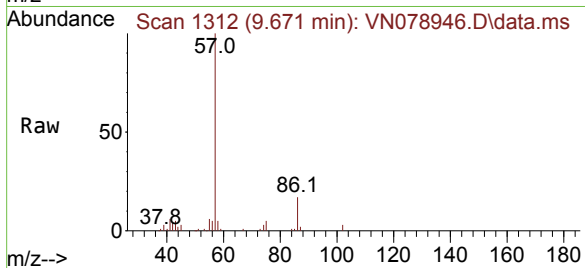
Tgt Ion: 41 Resp: 5148

Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 0.0 54.6 81.8#



#49

1,4-Dioxane

Concen: 1.518 ug/l

RT: 9.765 min Scan# 1328

Delta R.T. 0.065 min

Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

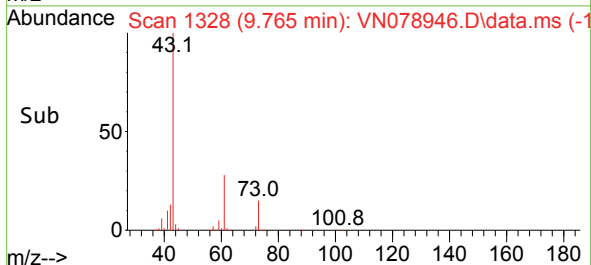
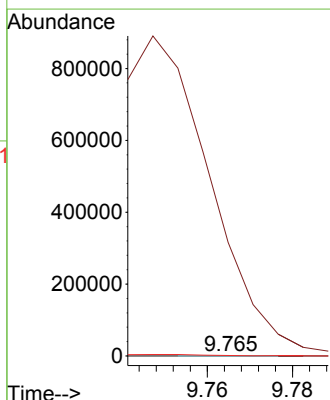
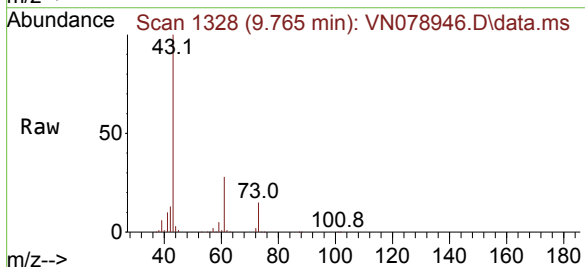
Tgt Ion: 88 Resp: 68

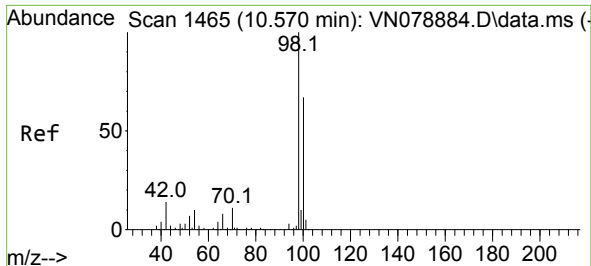
Ion Ratio Lower Upper

88 100

43 2335873.5 17.0 25.6#

58 10900.0 47.0 70.4#

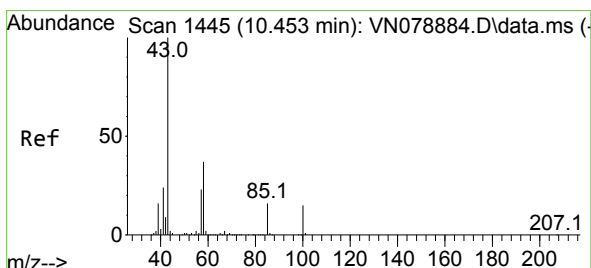
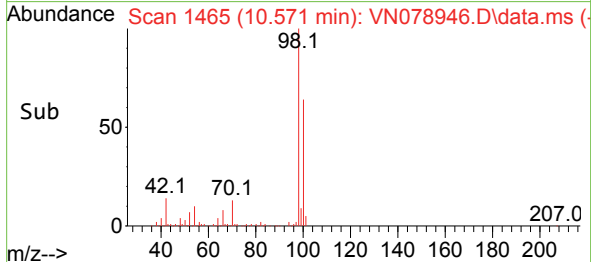
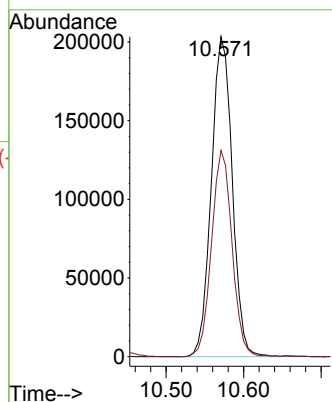
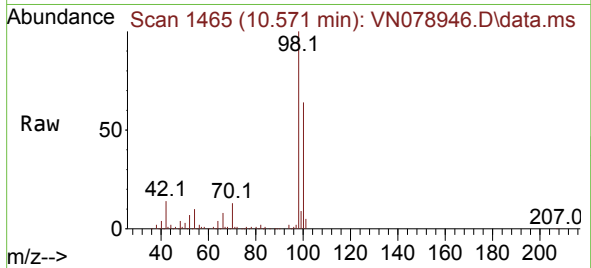




#50
Toluene-d8
Concen: 52.618 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

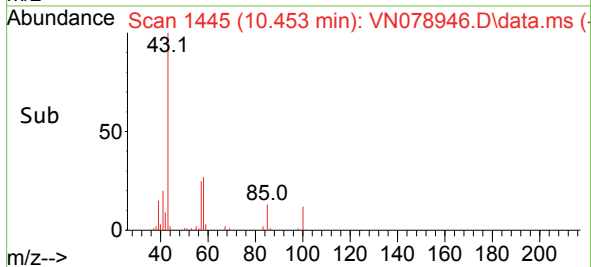
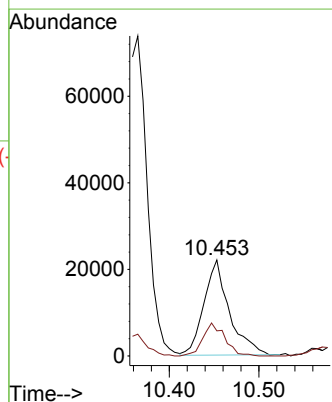
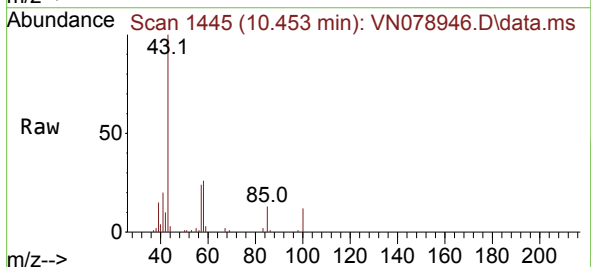
Instrument :
MSVOA_N
ClientSampleId :

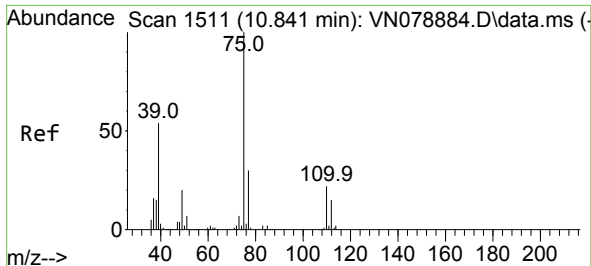
Tgt Ion: 98 Resp: 381123
Ion Ratio Lower Upper
98 100
100 63.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 12.576 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

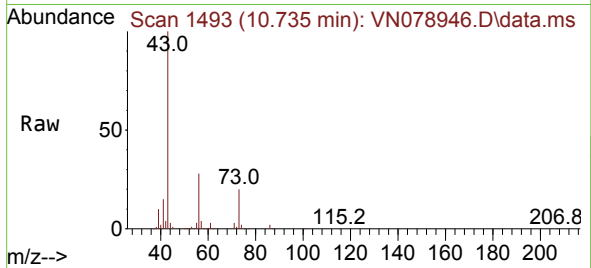
Tgt Ion: 43 Resp: 43283
Ion Ratio Lower Upper
43 100
58 30.0 36.6 54.8#



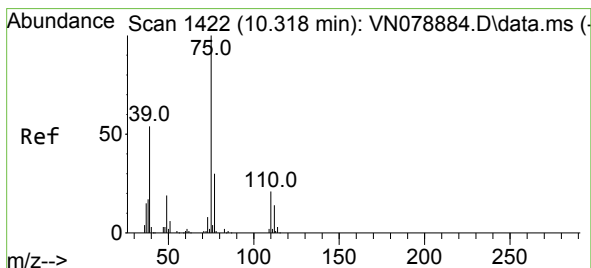
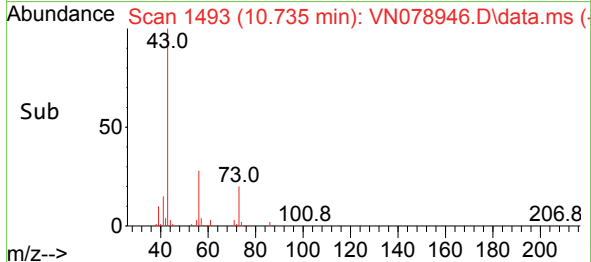
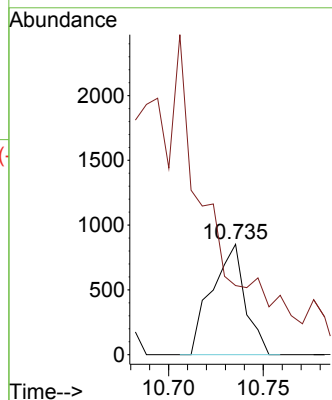


#53
t-1,3-Dichloropropene
Concen: 0.312 ug/l
RT: 10.735 min Scan# 1430
Delta R.T. -0.106 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

Instrument :
MSVOA_N
ClientSampleId :

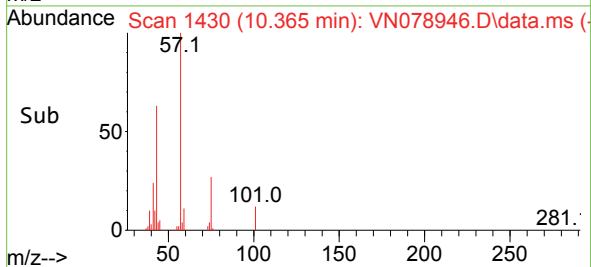
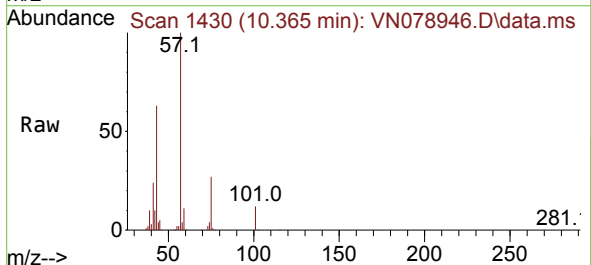
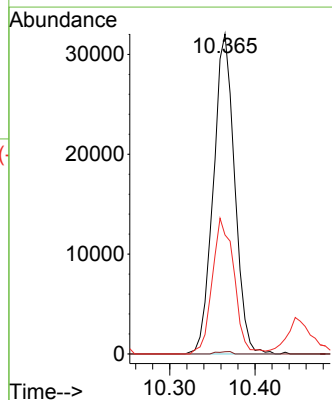


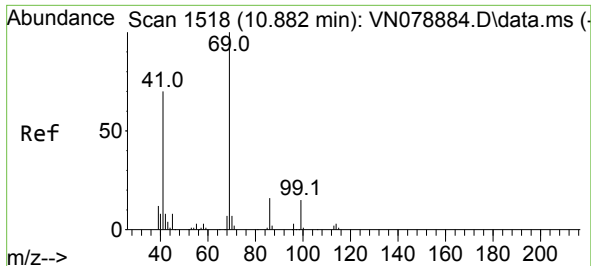
Tgt Ion: 75 Resp: 1048
Ion Ratio Lower Upper
75 100
77 8.9 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 15.211 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

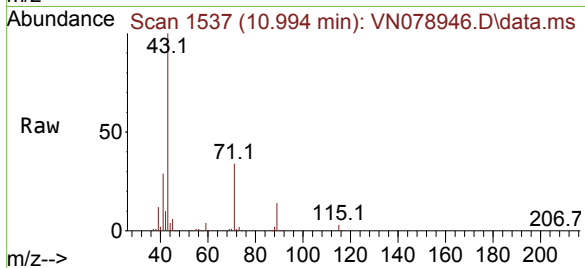
Tgt Ion: 75 Resp: 55564
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 37.2 31.6 47.4



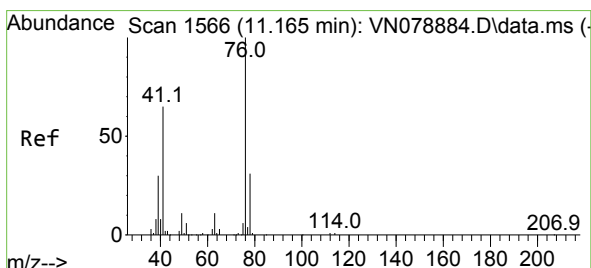
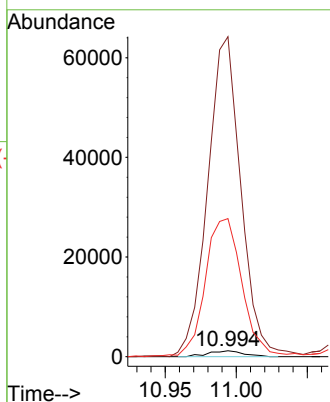
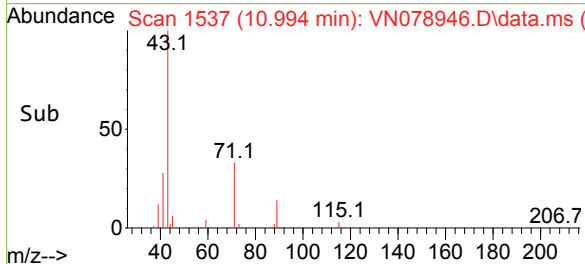


#56
Ethyl methacrylate
Concen: 0.612 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.117 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

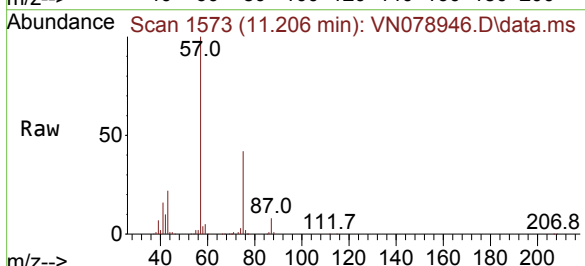
Instrument :
MSVOA_N
ClientSampleId :



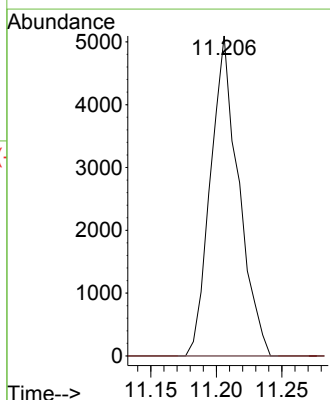
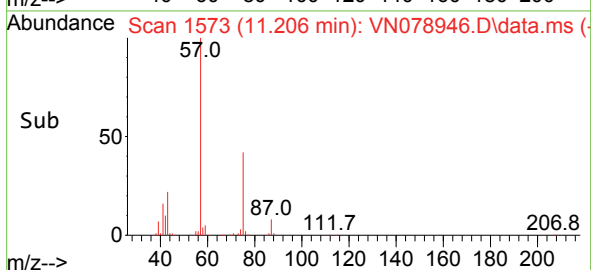
Tgt Ion: 69 Resp: 2024
Ion Ratio Lower Upper
69 100
41 5187.0 39.6 59.4#
39 2477.7 28.6 43.0#

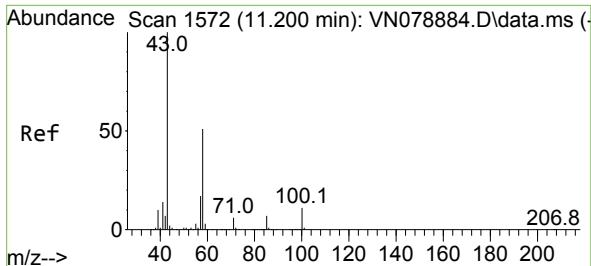


#57
1,3-Dichloropropane
Concen: 1.992 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47



Tgt Ion: 76 Resp: 7606
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

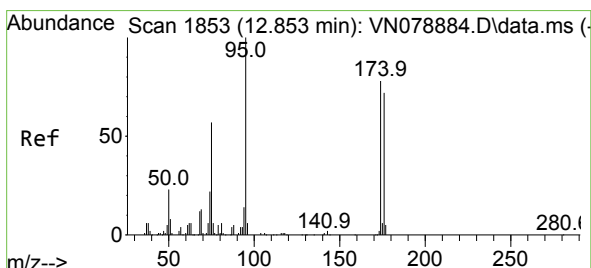
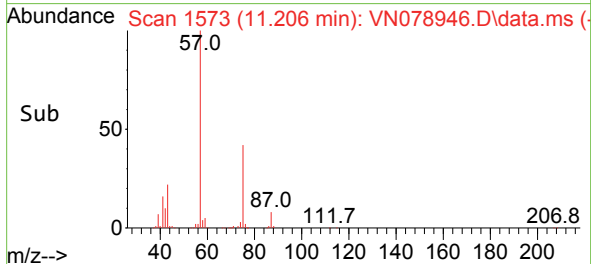
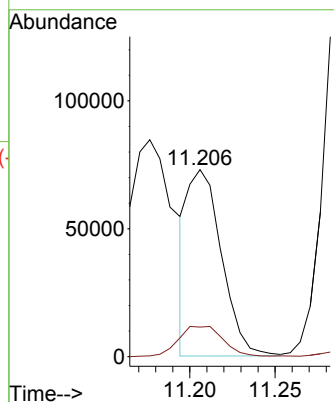
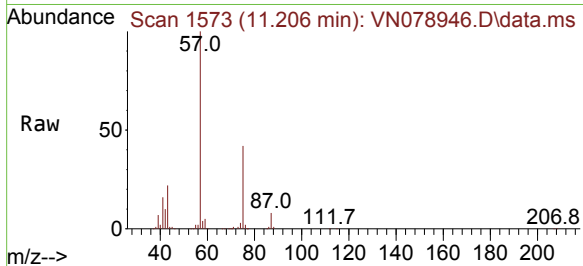




#59
2-Hexanone
Concen: 40.668 ug/l
RT: 11.206 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

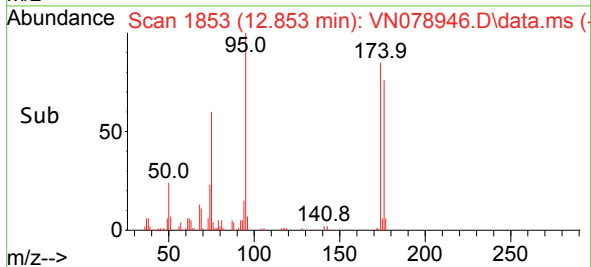
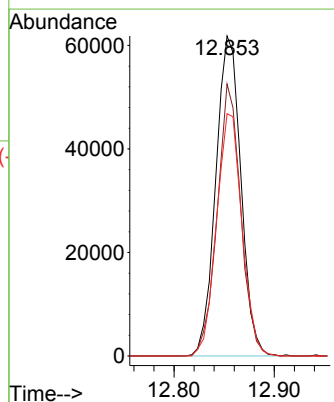
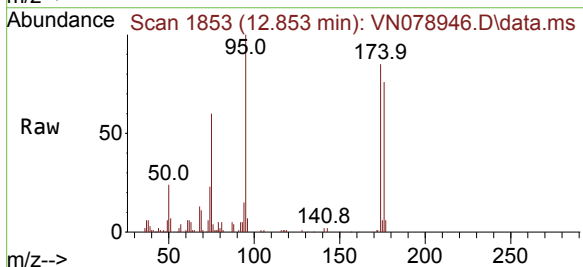
Instrument :
MSVOA_N
ClientSampleId :

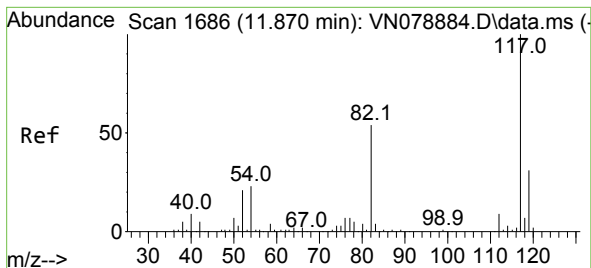
Tgt Ion: 43 Resp: 101379
Ion Ratio Lower Upper
43 100
58 21.8 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 45.261 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

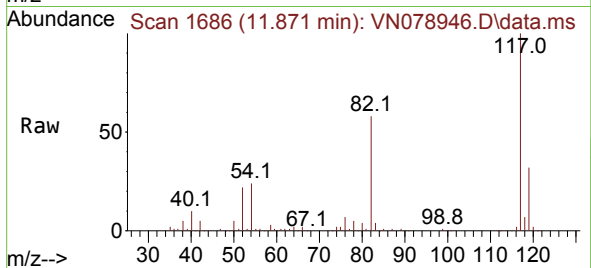
Tgt Ion: 95 Resp: 107157
Ion Ratio Lower Upper
95 100
174 79.7 0.0 143.8
176 76.9 0.0 135.8



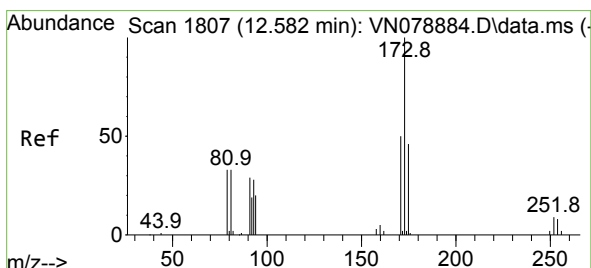
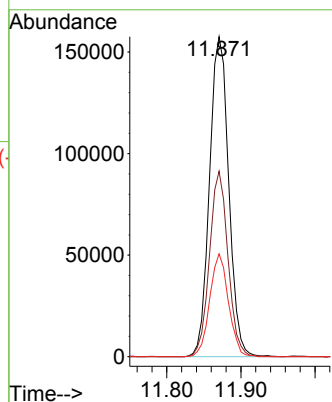
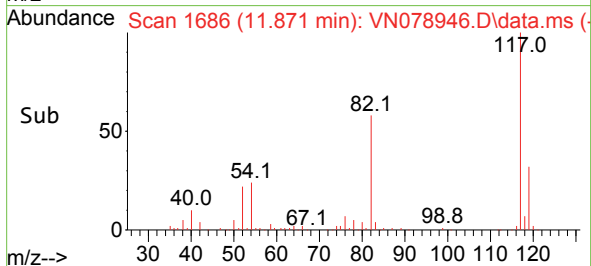


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

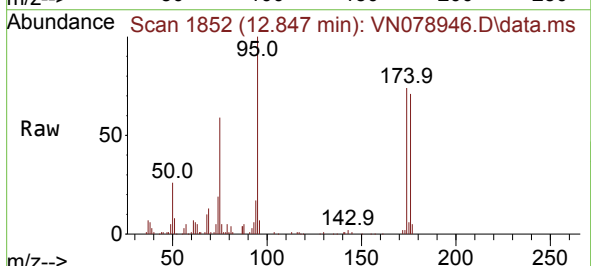
Instrument :
MSVOA_N
ClientSampleId :



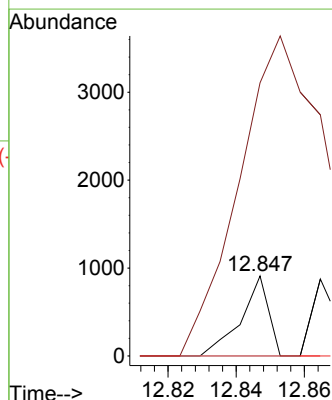
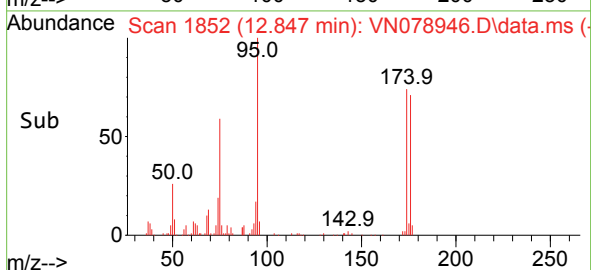
Tgt Ion:117 Resp: 283495
Ion Ratio Lower Upper
117 100
82 58.0 44.0 66.0
119 32.2 25.6 38.4

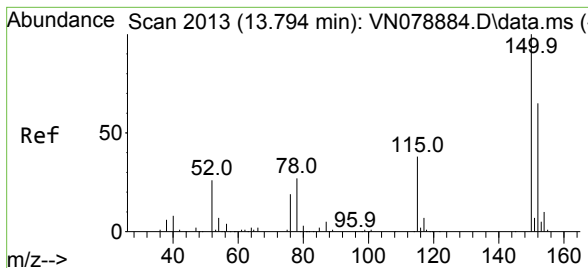


#71
Bromoform
Concen: 0.309 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47



Tgt Ion:173 Resp: 512
Ion Ratio Lower Upper
173 100
175 919.9 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. 0.006 min

Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

Instrument :

MSVOA_N

ClientSampleId :

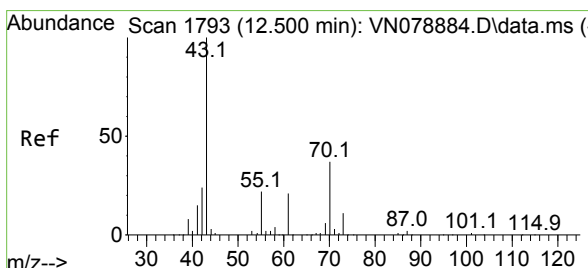
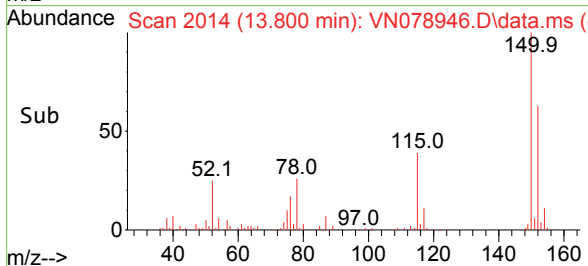
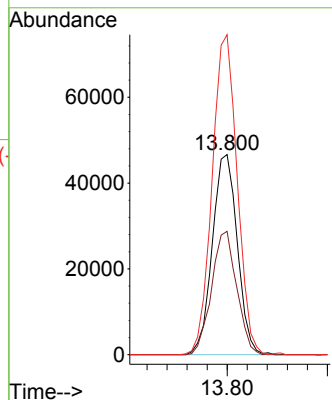
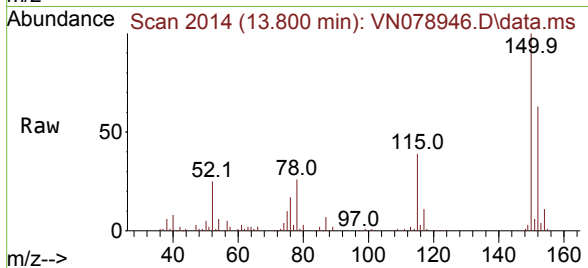
Tgt Ion:152 Resp: 80677

Ion Ratio Lower Upper

152 100

115 62.0 32.3 96.8

150 159.9 0.0 355.8



#74

N-ethyl acetate

Concen: 0.679 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.018 min

Lab File: VN078946.D

Acq: 18 Aug 2023 16:47

Tgt Ion: 43 Resp: 2306

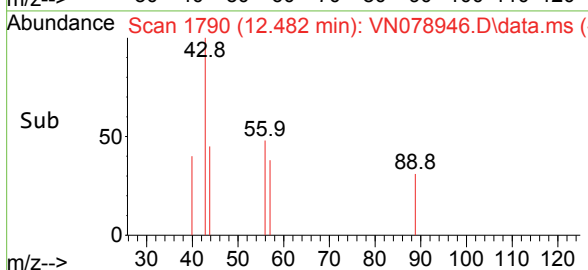
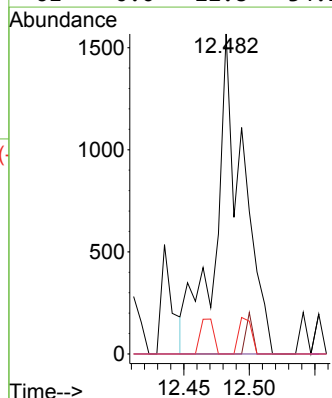
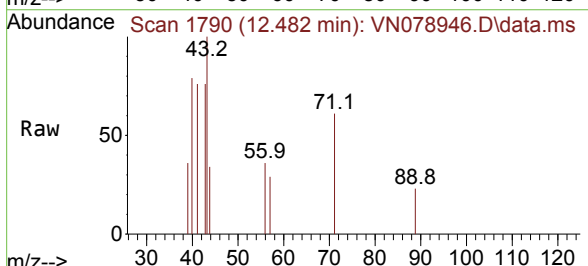
Ion Ratio Lower Upper

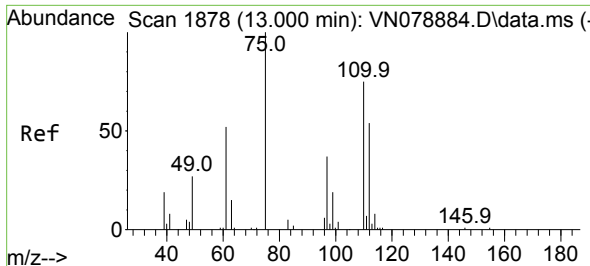
43 100

70 0.0 43.4 65.2#

55 5.2 21.4 32.0#

61 0.0 22.8 34.2#

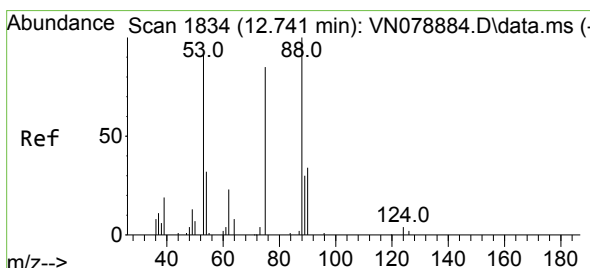
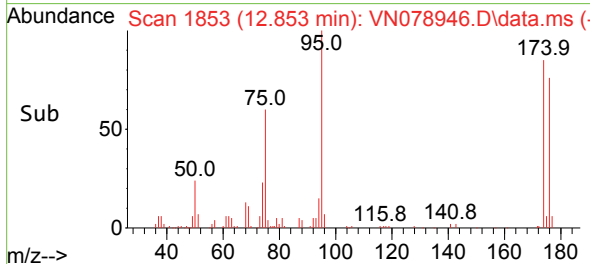
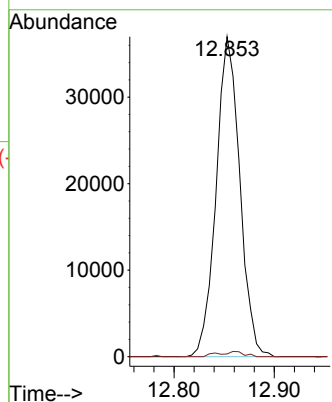
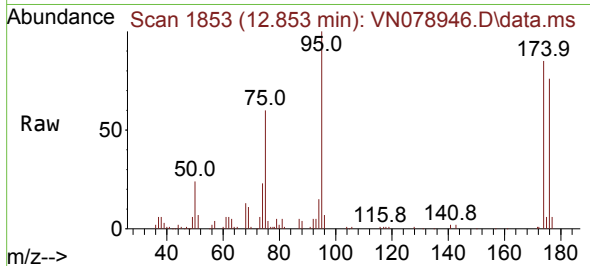




#76
1,2,3-Trichloropropane
Concen: 31.094 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

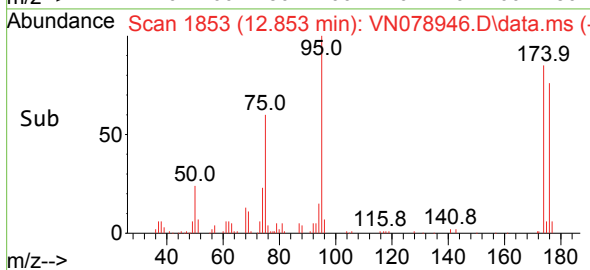
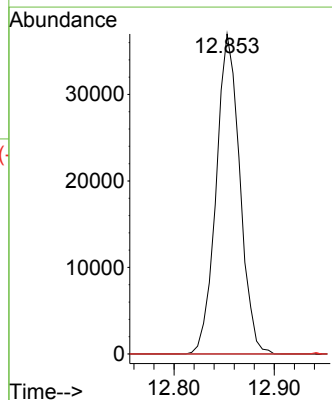
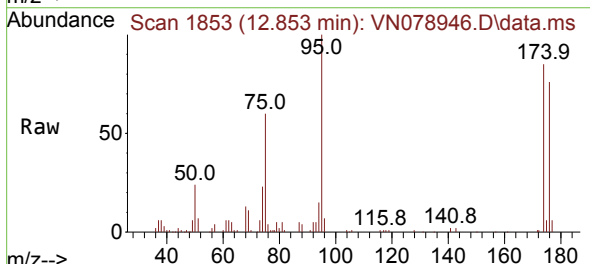
Instrument :
MSVOA_N
ClientSampleId :

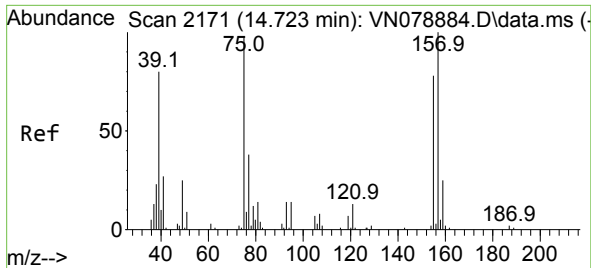
Tgt Ion: 75 Resp: 60445
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 79.433 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078946.D
Acq: 18 Aug 2023 16:47

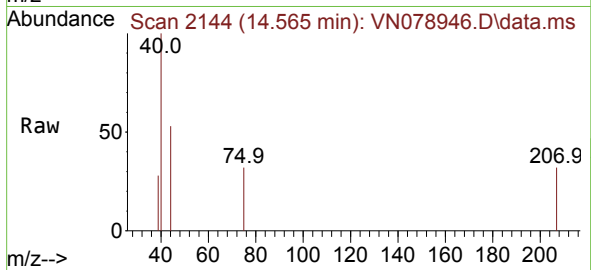
Tgt Ion: 75 Resp: 60445
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.565 min Scan# 21
 Delta R.T. -0.158 min
 Lab File: VN078946.D
 Acq: 18 Aug 2023 16:47

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 64
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.1 117.2#
 157 0.0 50.3 150.9#

