

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082823\
 Data File : VN079064.D
 Acq On : 28 Aug 2023 13:56
 Operator : JC\MD
 Sample : 04092-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 29 05:21:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

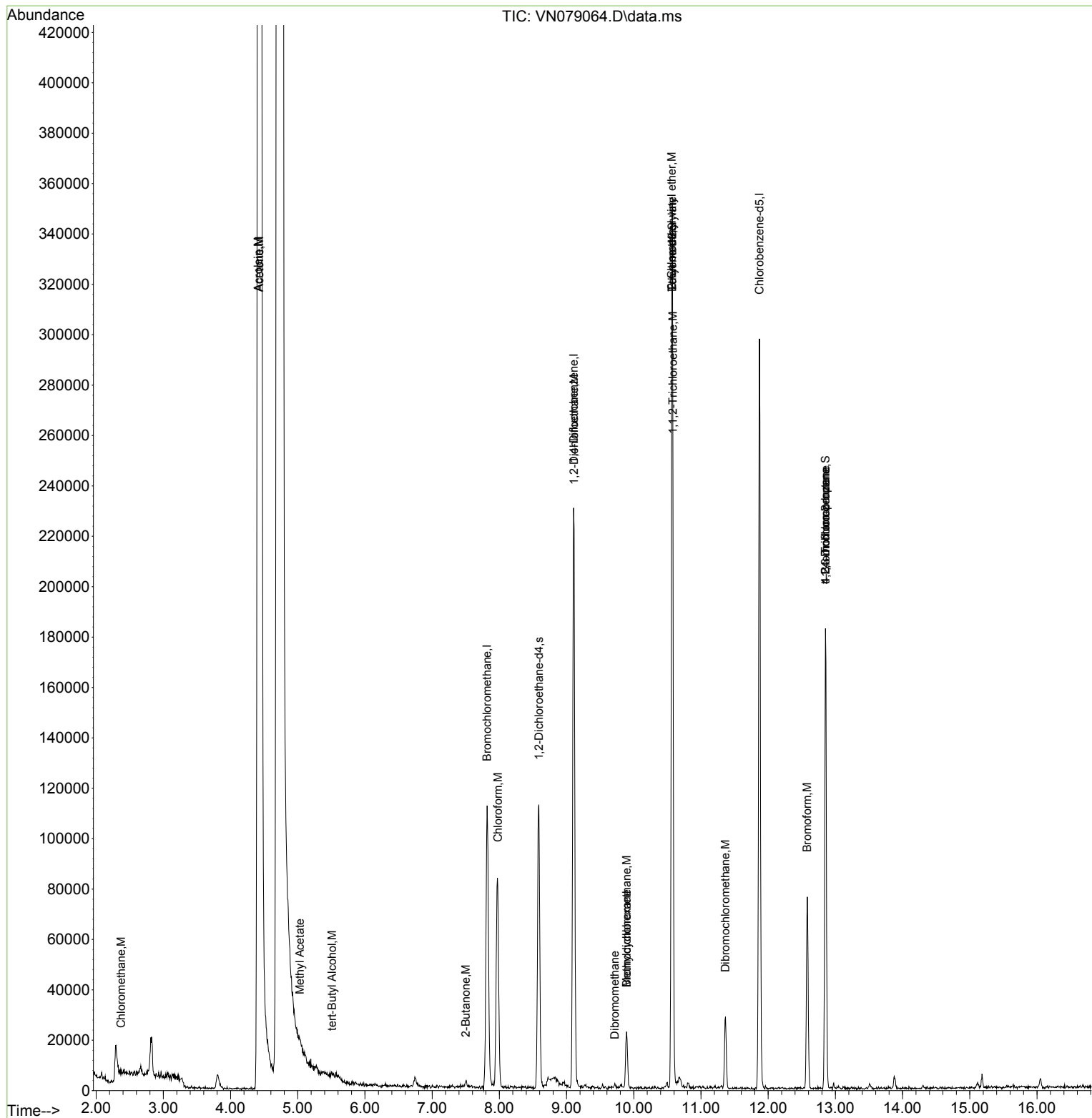
Internal Standards						
1) Bromochloromethane	7.818	128	37701	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	195106	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	166500	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	90790	29.725	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.067%
60) 4-Bromofluorobenzene	12.853	95	59056	24.315	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.067%
63) Toluene-d8	10.571	98	237161	30.501	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.667%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1168	0.410	ug/l #	44
12) Methyl Acetate	5.030	43	1062	0.227	ug/l #	54
13) Acrolein	4.412	56	81	0.248	ug/l #	16
15) Acetone	4.430	58	1253490	3320.971	ug/l	93
23) tert-Butyl Alcohol	5.512	59	177	0.386	ug/l #	100
25) Chloroform	7.977	83	79022	17.755	ug/l	95
30) 2-Butanone	7.500	43	2810	1.617	ug/l #	87
36) 1,2-Dichloroethane	9.112	62	8100	2.432	ug/l #	73
38) Methylcyclohexane	9.894	83	15309	5.859	ug/l #	16
40) Dibromomethane	9.718	93	660	0.411	ug/l #	25
41) Bromodichloromethane	9.894	83	15309	4.740	ug/l	99
50) 1,1,2-Trichloroethane	10.582	97	8120	3.742	ug/l #	1
51) Ethyl methacrylate	10.571	69	935	0.278	ug/l #	64
53) Dibromochloromethane	11.365	129	14434	6.077	ug/l	99
55) 2-Chloroethyl vinyl ether	10.565	63	328	0.211	ug/l #	46
56) Bromoform	12.582	173	34456	20.560	ug/l	97
72) 1,2,3-Trichloropropane	12.853	75	32729	12.565	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	32729	33.812	ug/l #	3

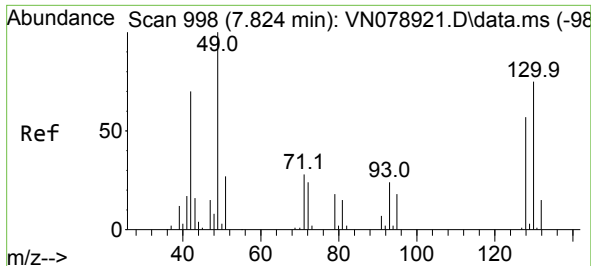
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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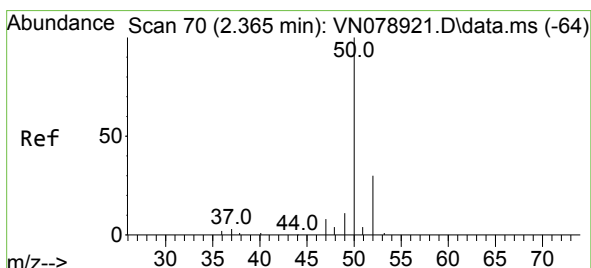
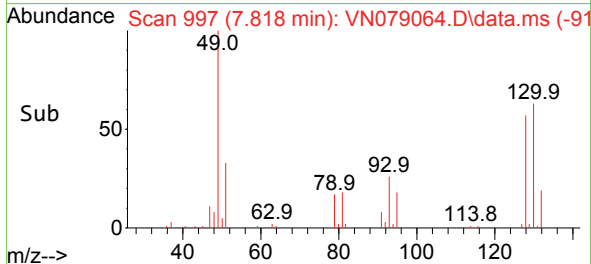
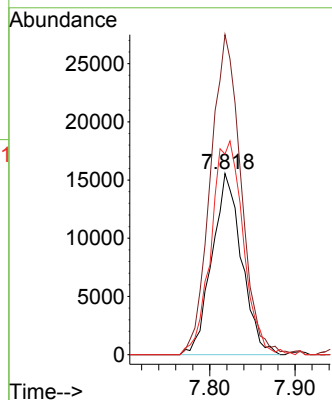
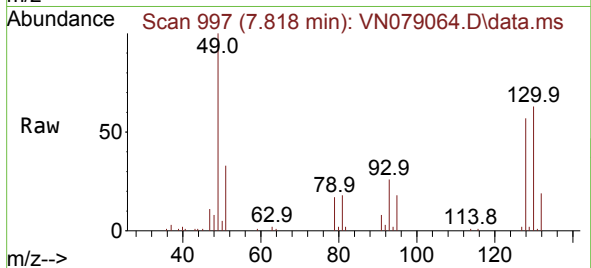




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

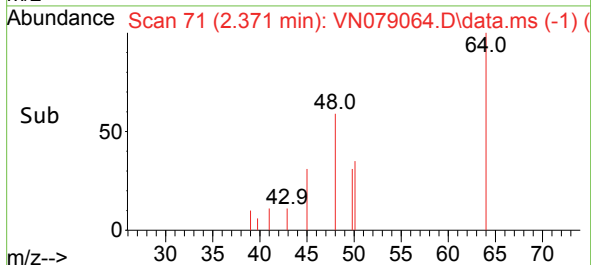
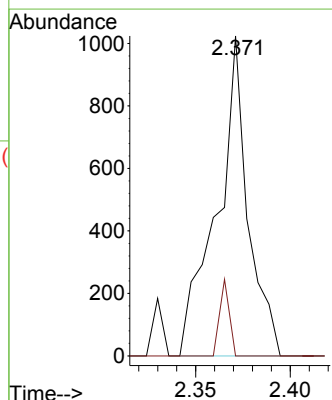
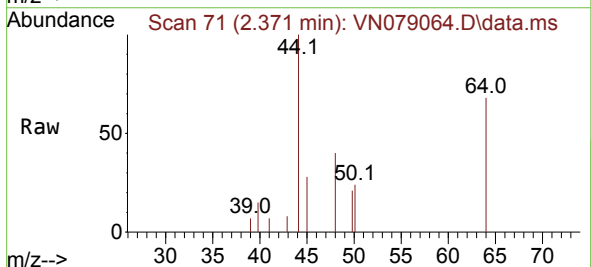
Instrument :
MSVOA_N
ClientSampleId :

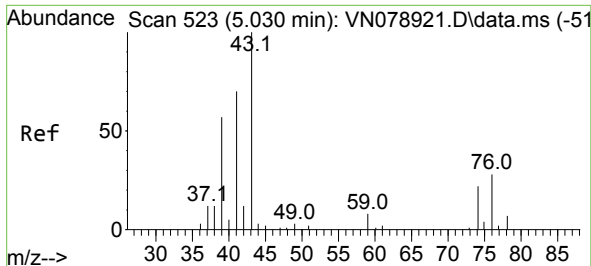
Tgt Ion:128 Resp: 37701
Ion Ratio Lower Upper
128 100
49 181.8 0.0 481.8
130 127.2 0.0 320.5



#3
Chloromethane
Concen: 0.410 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

Tgt Ion: 50 Resp: 1168
Ion Ratio Lower Upper
50 100
52 0.0 24.2 36.4#

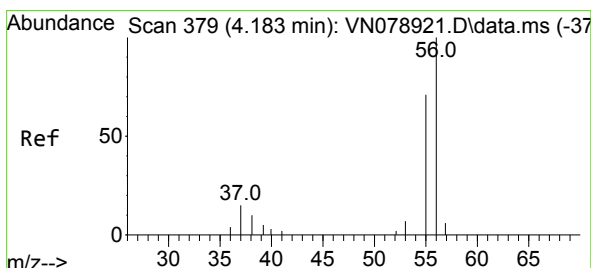
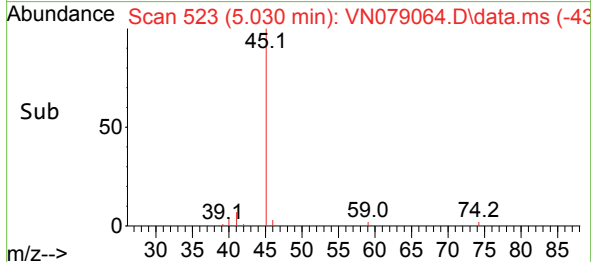
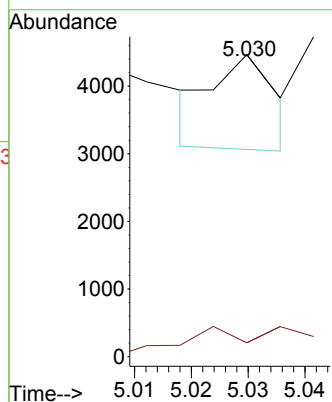
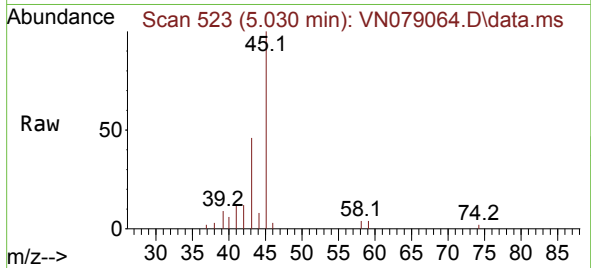




#12
Methyl Acetate
Concen: 0.227 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

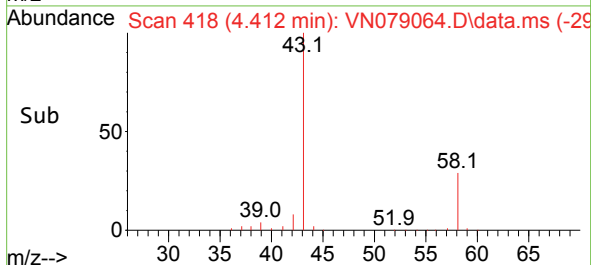
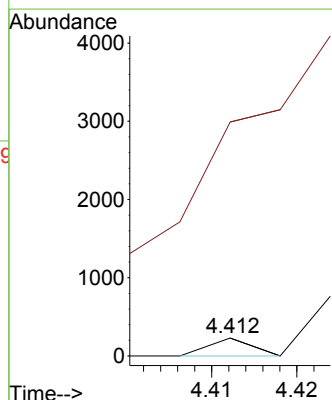
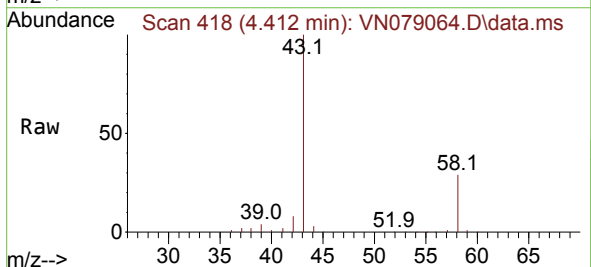
Instrument :
MSVOA_N
ClientSampleId :

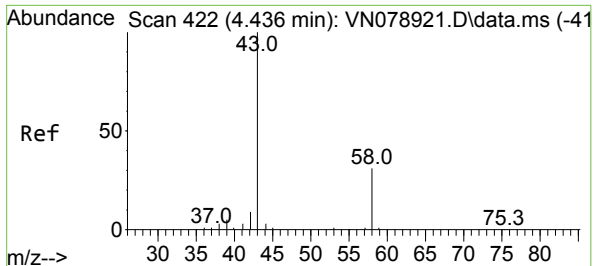
Tgt Ion: 43 Resp: 1062
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#13
Acrolein
Concen: 0.248 ug/l
RT: 4.412 min Scan# 418
Delta R.T. 0.229 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

Tgt Ion: 56 Resp: 81
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

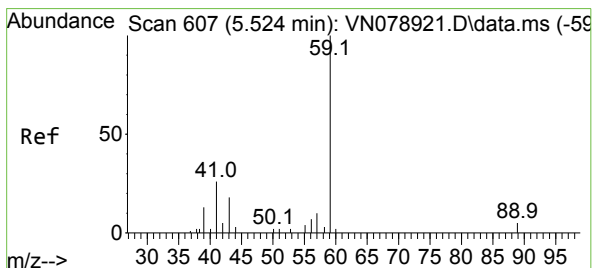
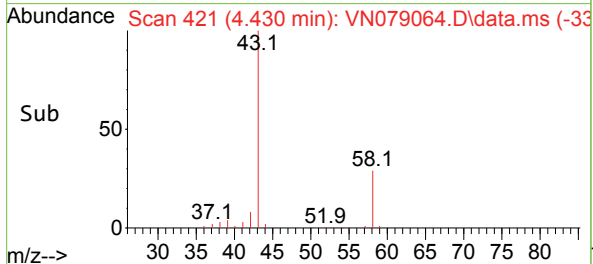
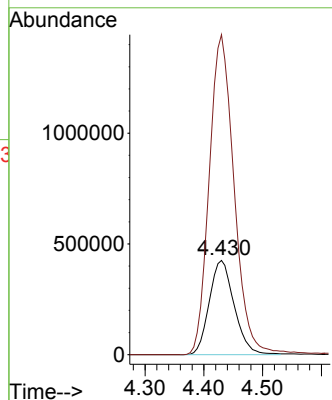
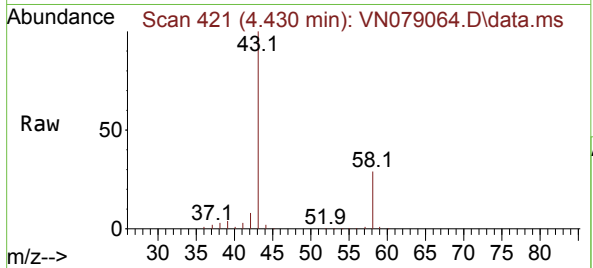




#15
Acetone
Concen: 3320.971 ug/l
RT: 4.430 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

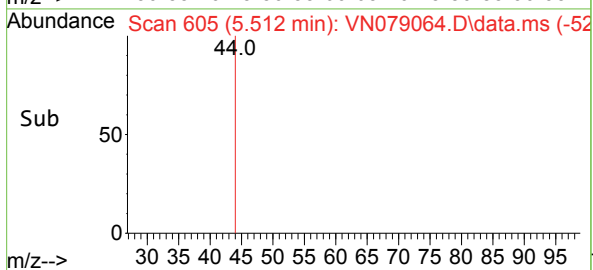
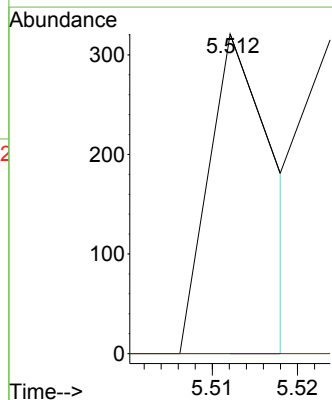
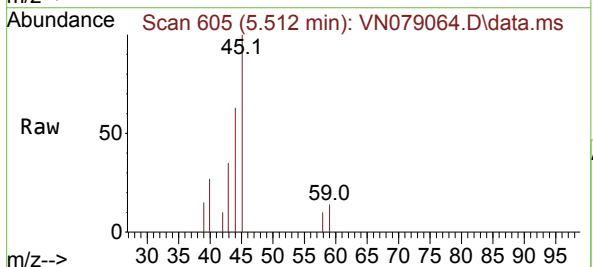
Instrument :
MSVOA_N
ClientSampleId :

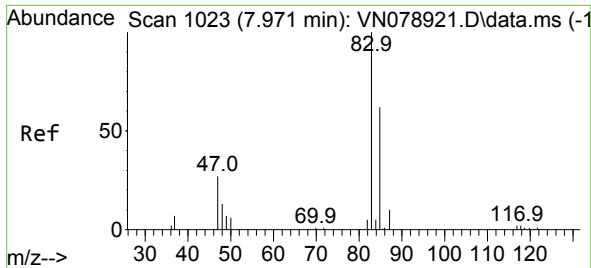
Tgt Ion: 58 Resp: 1253490
Ion Ratio Lower Upper
58 100
43 339.3 260.6 390.8



#23
tert-Butyl Alcohol
Concen: 0.386 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

Tgt Ion: 59 Resp: 177
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

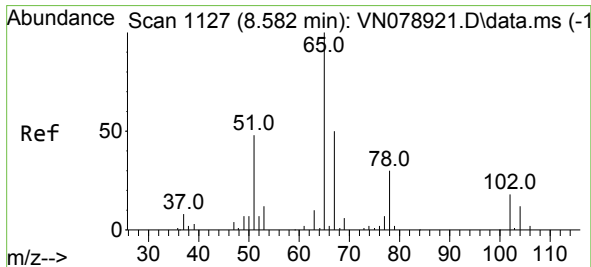
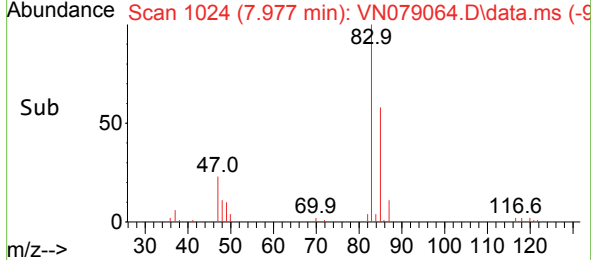
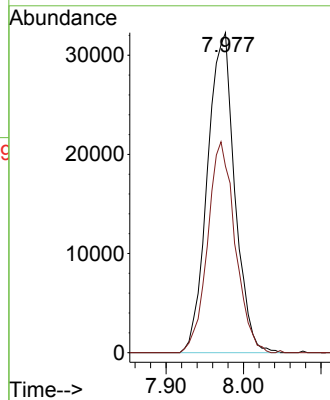
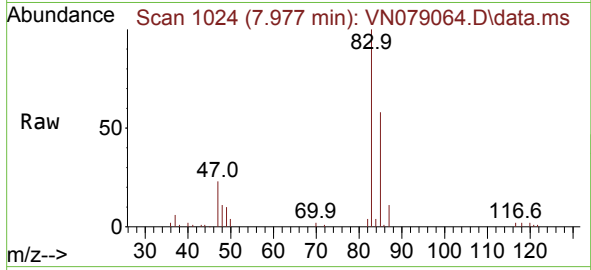




#25
Chloroform
Concen: 17.755 ug/l
RT: 7.977 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

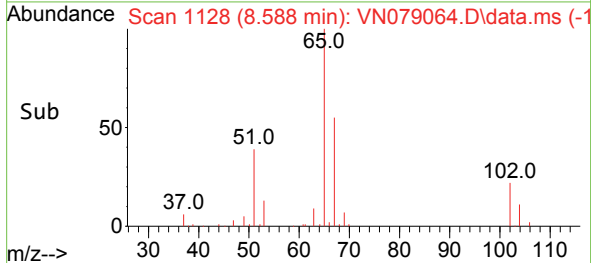
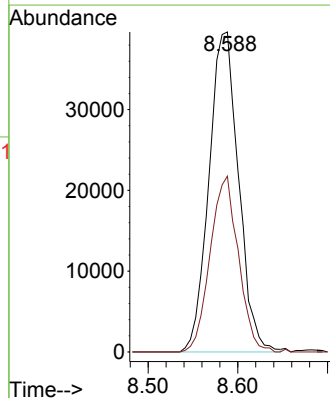
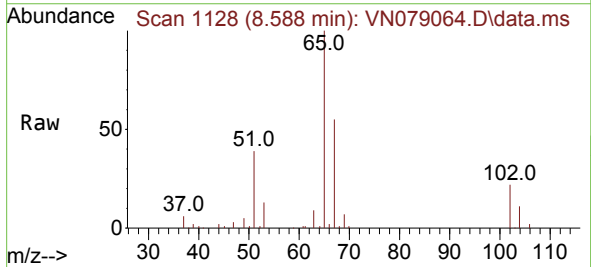
Instrument :
MSVOA_N
ClientSampleId :

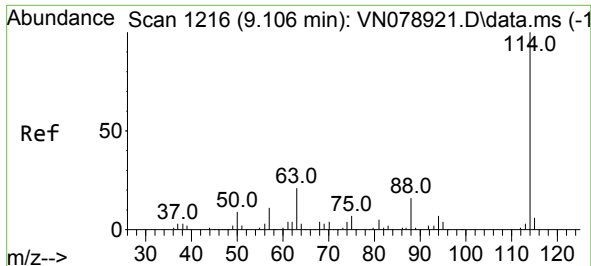
Tgt Ion: 83 Resp: 79022
Ion Ratio Lower Upper
83 100
85 58.3 49.6 74.4



#27
1,2-Dichloroethane-d4
Concen: 29.725 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

Tgt Ion: 65 Resp: 90790
Ion Ratio Lower Upper
65 100
67 52.3 40.7 61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN079064.D

Acq: 28 Aug 2023 13:56

Instrument :

MSVOA_N

ClientSampleId :

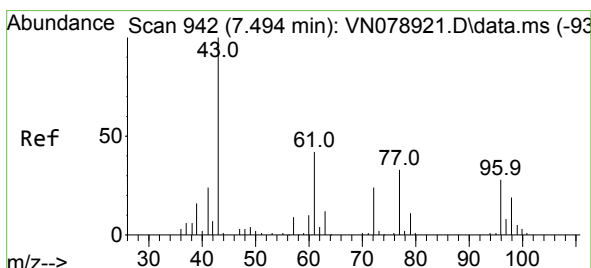
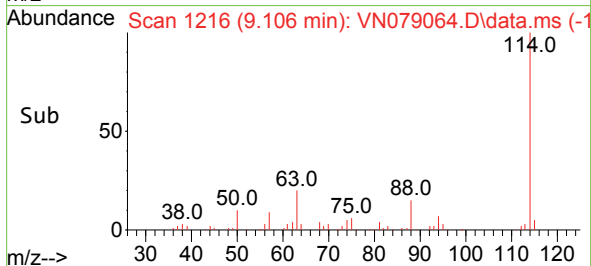
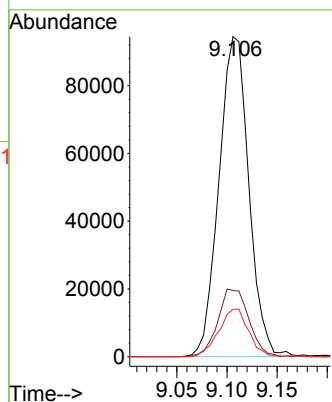
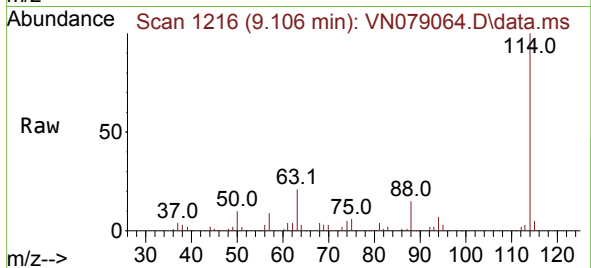
Tgt Ion:114 Resp: 195106

Ion Ratio Lower Upper

114 100

63 21.9 17.4 26.2

88 15.0 12.0 18.0



#30

2-Butanone

Concen: 1.617 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.006 min

Lab File: VN079064.D

Acq: 28 Aug 2023 13:56

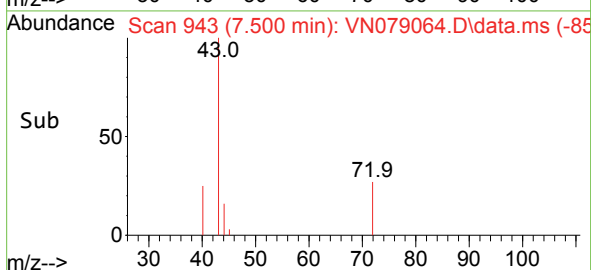
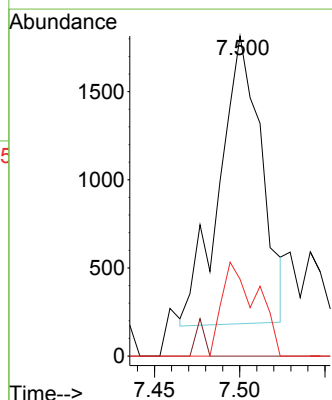
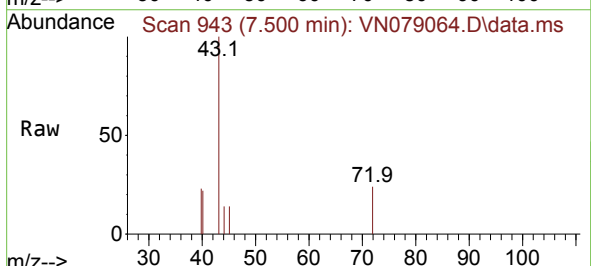
Tgt Ion: 43 Resp: 2810

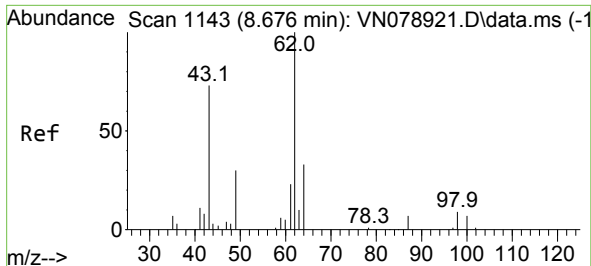
Ion Ratio Lower Upper

43 100

57 0.0 6.2 9.4#

72 19.2 19.4 29.2#





#36

1,2-Dichloroethane

Concen: 2.432 ug/l

RT: 9.112 min Scan# 1143

Delta R.T. 0.435 min

Lab File: VN079064.D

Acq: 28 Aug 2023 13:56

Instrument :

MSVOA_N

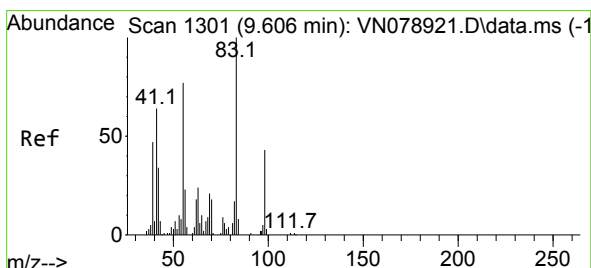
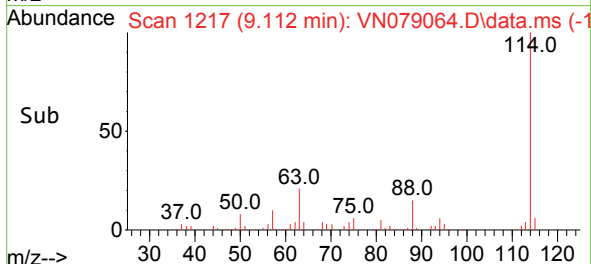
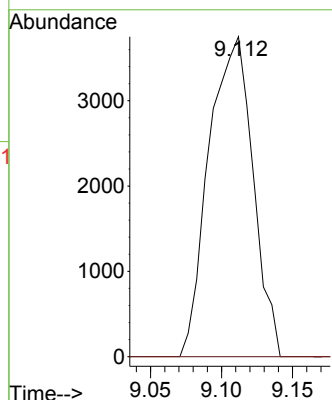
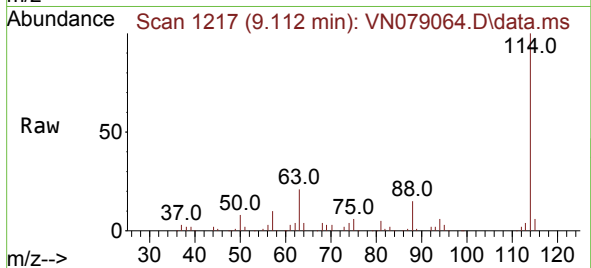
ClientSampleId :

Tgt Ion: 62 Resp: 8100

Ion Ratio Lower Upper

62 100

98 0.0 8.1 12.1#



#38

Methylcyclohexane

Concen: 5.859 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. 0.288 min

Lab File: VN079064.D

Acq: 28 Aug 2023 13:56

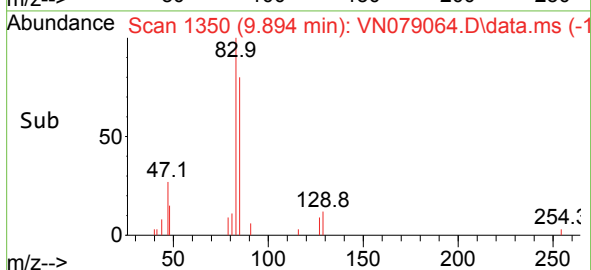
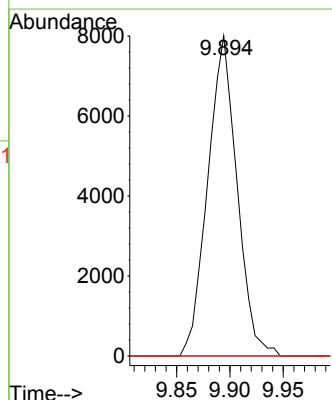
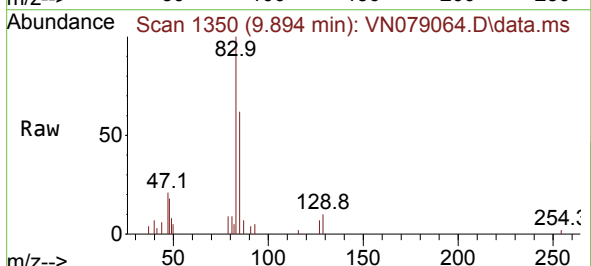
Tgt Ion: 83 Resp: 15309

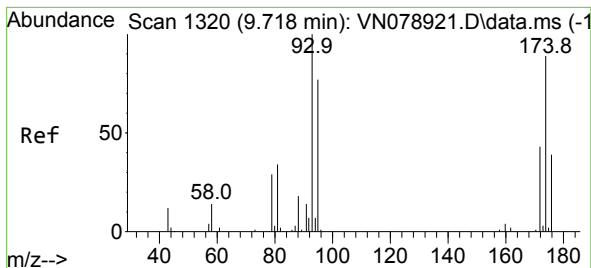
Ion Ratio Lower Upper

83 100

55 0.0 40.2 120.6#

98 0.0 24.1 72.3#





#40

Dibromomethane

Concen: 0.411 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.000 min

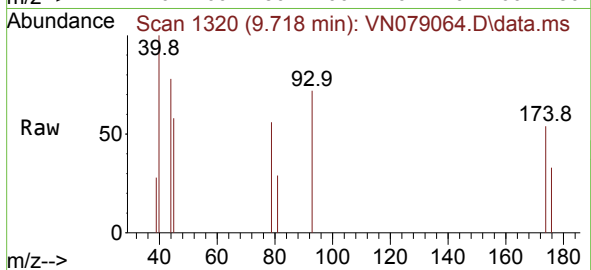
Lab File: VN079064.D

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MSVOA_N

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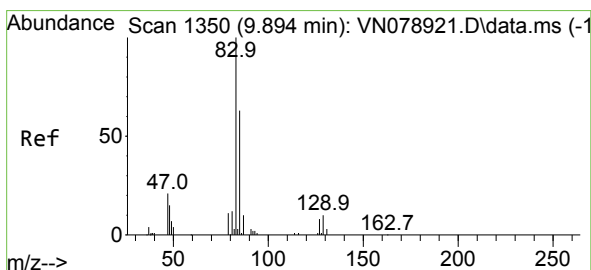
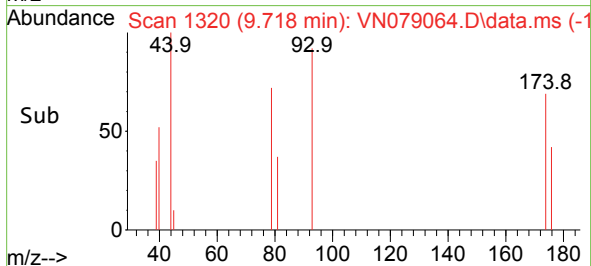
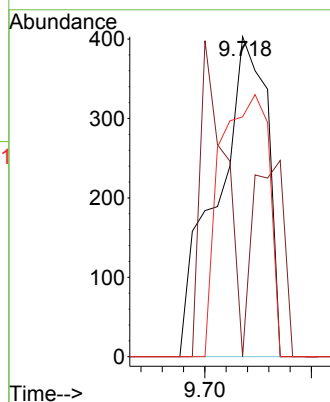
Tgt Ion: 93 Resp: 660

Ion Ratio Lower Upper

93 100

95 37.4 0.0 162.0

174 0.0 0.0 188.6



#41

Bromodichloromethane

Concen: 4.740 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. 0.000 min

Lab File: VN079064.D

Acq: 28 Aug 2023 13:56

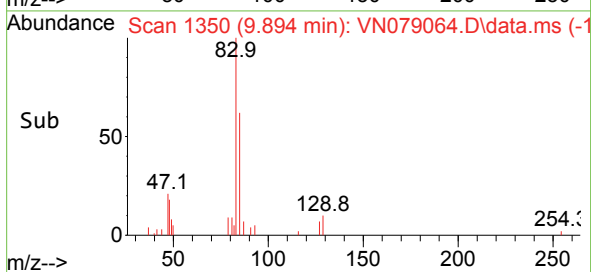
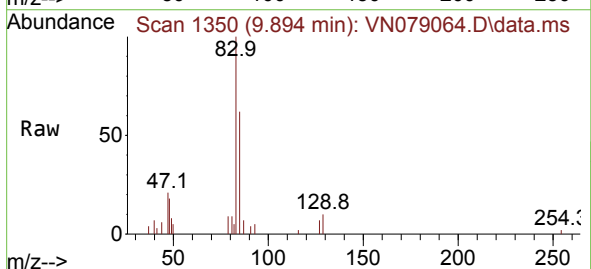
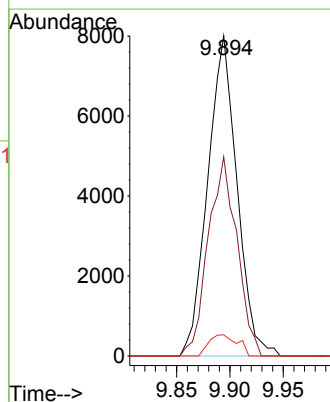
Tgt Ion: 83 Resp: 15309

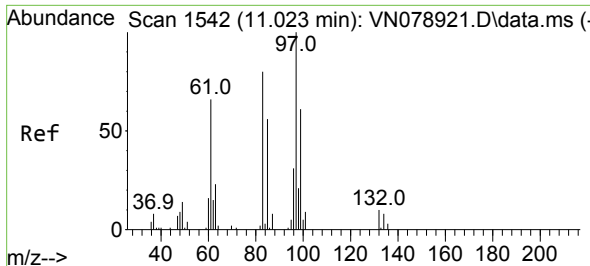
Ion Ratio Lower Upper

83 100

85 62.2 50.2 75.2

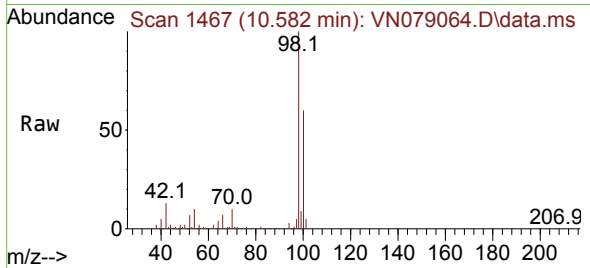
127 6.6 6.2 9.4



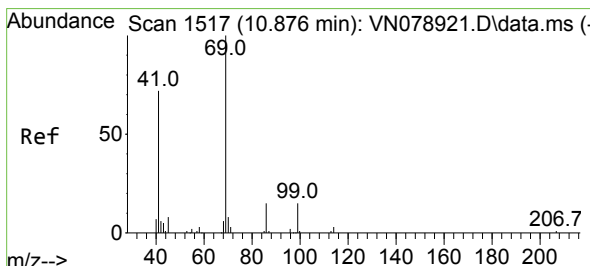
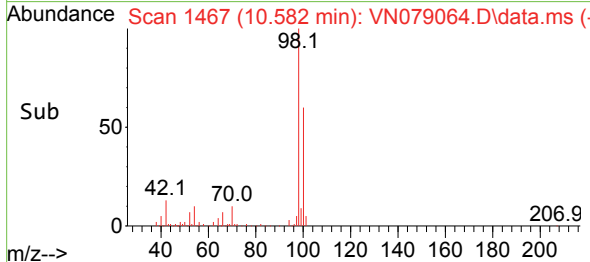
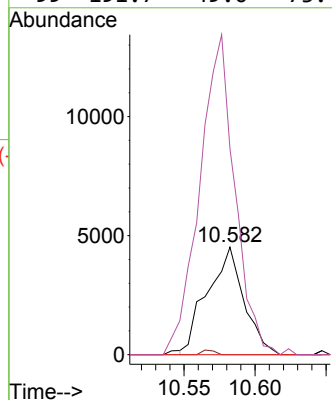


#50
1,1,2-Trichloroethane
Concen: 3.742 ug/l
RT: 10.582 min Scan# 1467
Delta R.T. -0.441 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

Instrument :
MSVOA_N
ClientSampleId :

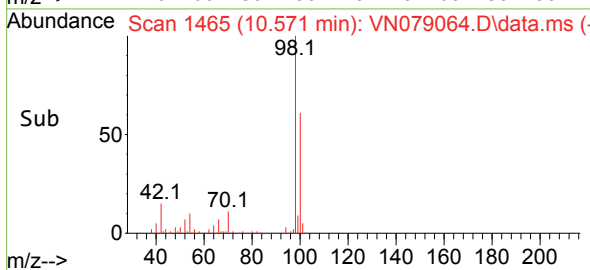
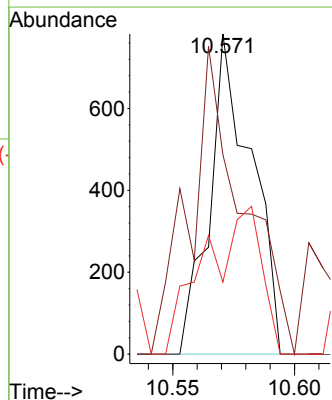
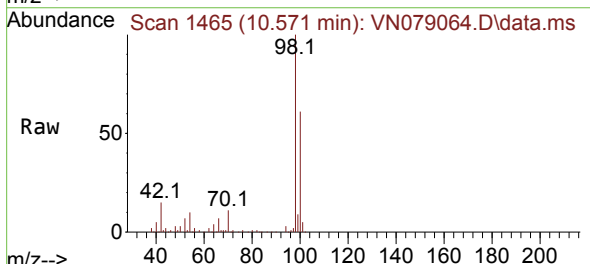


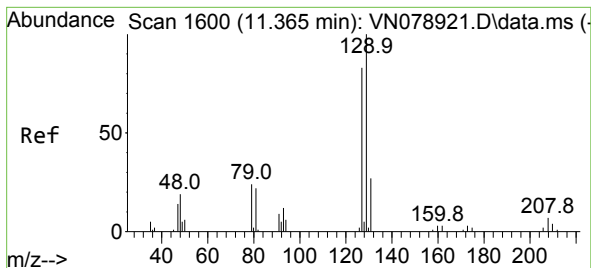
Tgt Ion: 97	Resp: 8120
Ion Ratio	Lower Upper
97	100
83	0.0 63.7 95.5#
85	0.0 44.9 67.3#
99	191.7 49.0 73.4#



#51
Ethyl methacrylate
Concen: 0.278 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.306 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

Tgt Ion: 69	Resp: 935
Ion Ratio	Lower Upper
69	100
41	42.6 35.9 107.8
39	22.5 23.5 70.5#





#53

Dibromochloromethane

Concen: 6.077 ug/l

RT: 11.365 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079064.D

Acq: 28 Aug 2023 13:56

Instrument :

MSVOA_N

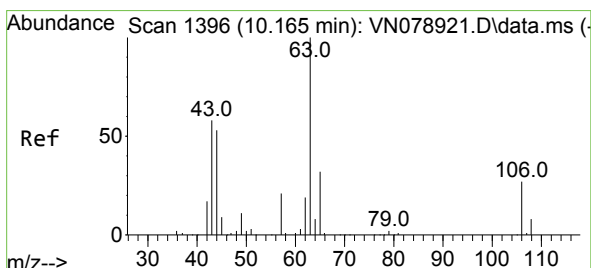
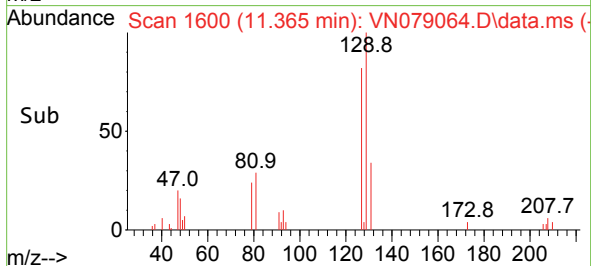
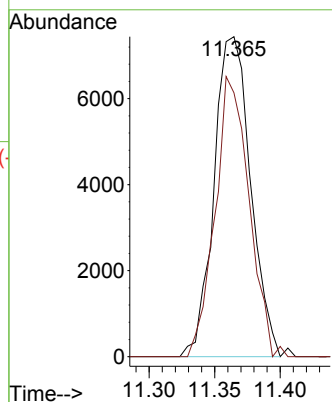
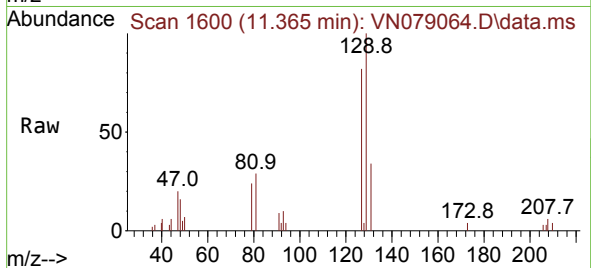
ClientSampleId :

Tgt Ion:129 Resp: 14434

Ion Ratio Lower Upper

129 100

127 80.6 40.1 120.2



#55

2-Chloroethyl vinyl ether

Concen: 0.211 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.400 min

Lab File: VN079064.D

Acq: 28 Aug 2023 13:56

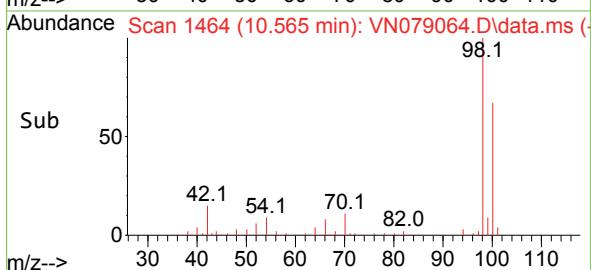
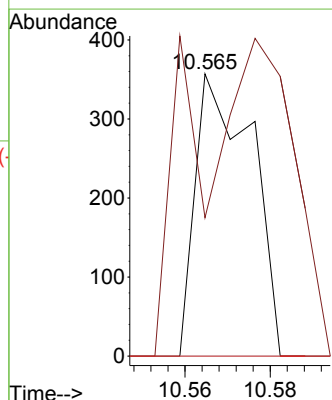
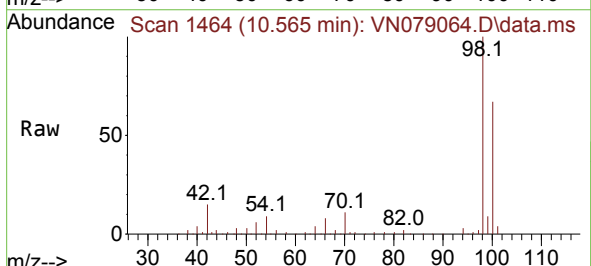
Tgt Ion: 63 Resp: 328

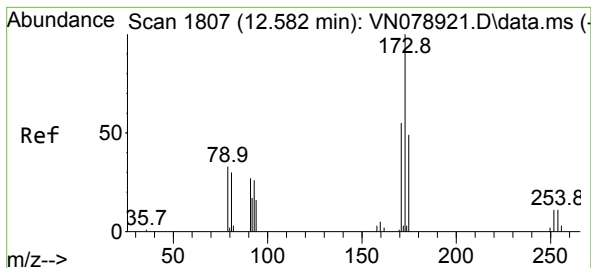
Ion Ratio Lower Upper

63 100

65 62.2 25.4 38.2#

106 0.0 22.3 33.5#





#56

Bromoform

Concen: 20.560 ug/l

RT: 12.582 min Scan# 1807

Delta R.T. 0.000 min

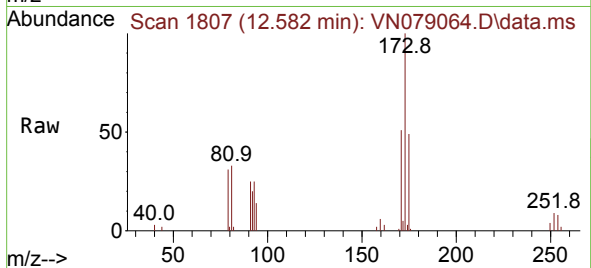
Lab File: VN079064.D

Acq: 28 Aug 2023 13:56

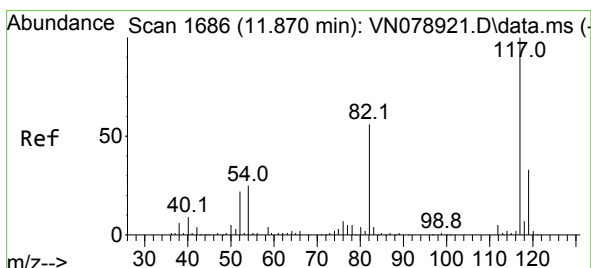
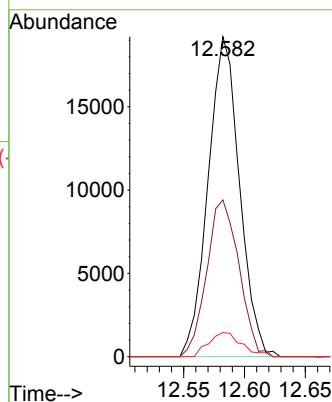
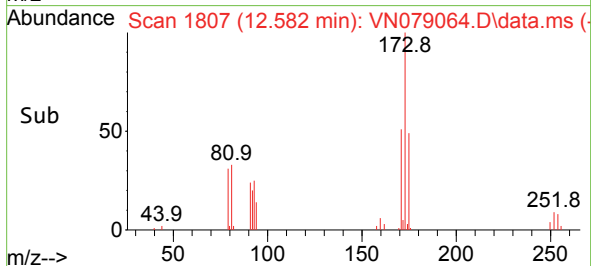
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	34456
Ion Ratio	Lower	Upper	
173	100		
175	50.4	38.8	58.2
254	7.7	7.6	11.4



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

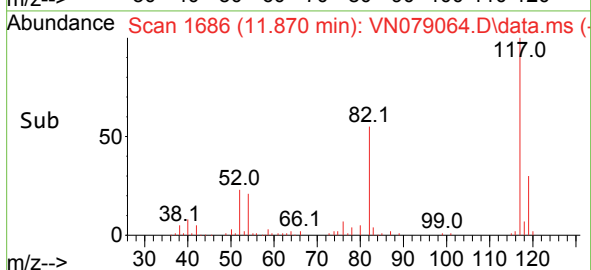
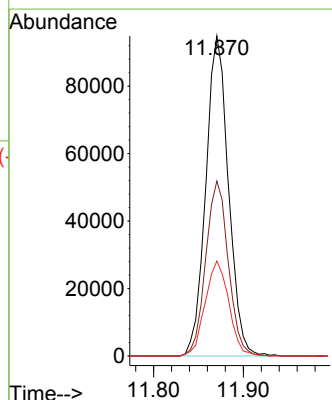
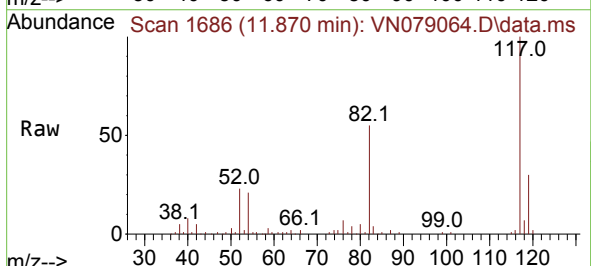
RT: 11.870 min Scan# 1686

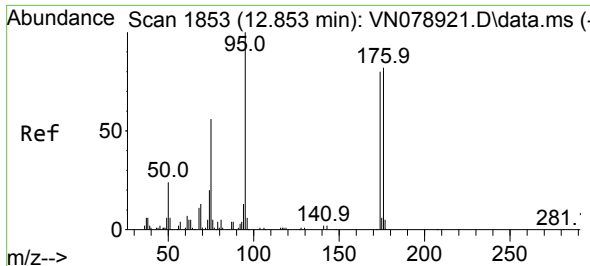
Delta R.T. 0.000 min

Lab File: VN079064.D

Acq: 28 Aug 2023 13:56

Tgt Ion:	117	Resp:	166500
Ion Ratio	Lower	Upper	
117	100		
82	54.5	43.4	65.0
119	30.9	25.5	38.3

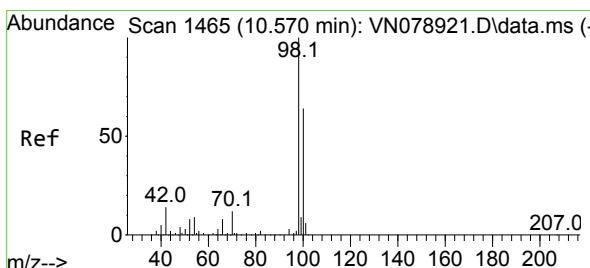
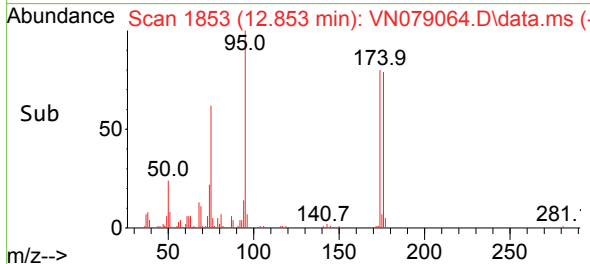
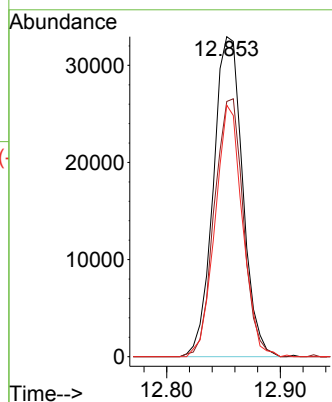
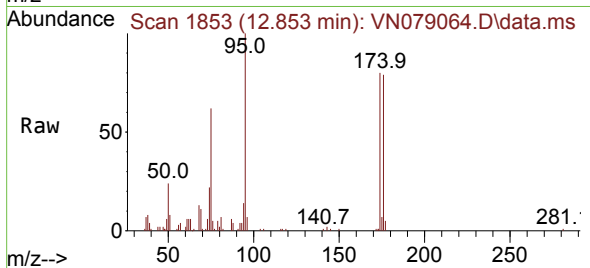




#60
4-Bromofluorobenzene
Concen: 24.315 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

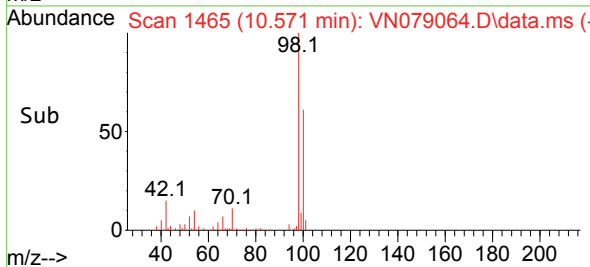
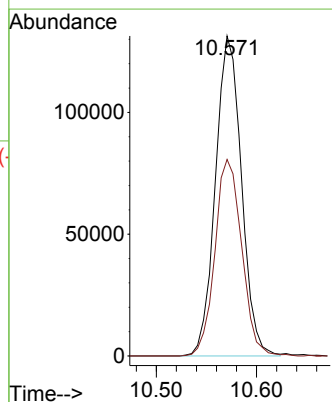
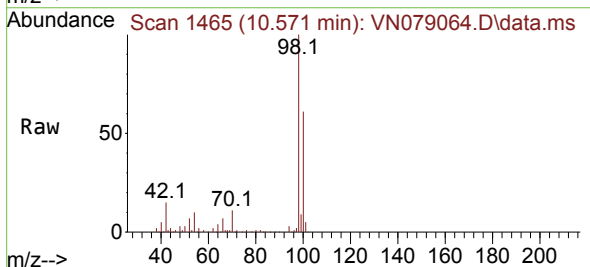
Instrument :
MSVOA_N
ClientSampleId :

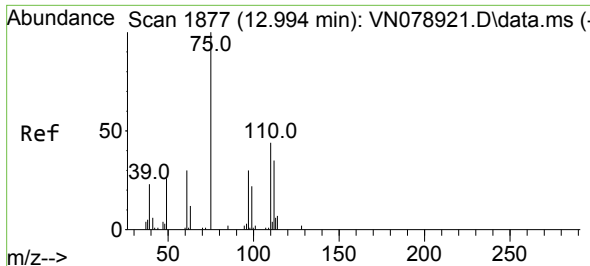
Tgt Ion: 95 Resp: 59056
Ion Ratio Lower Upper
95 100
174 79.5 64.8 97.2
176 73.8 63.0 94.6



#63
Toluene-d8
Concen: 30.501 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

Tgt Ion: 98 Resp: 237161
Ion Ratio Lower Upper
98 100
100 63.2 51.1 76.7

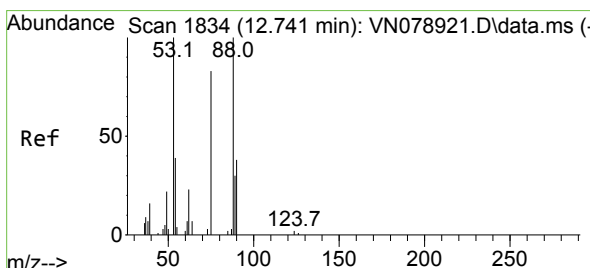
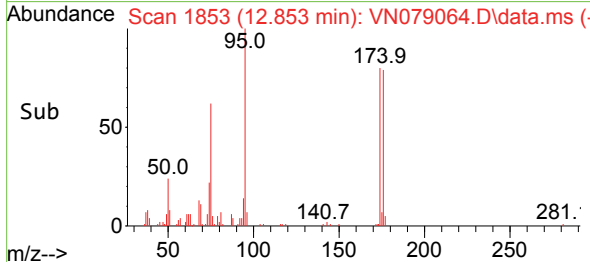
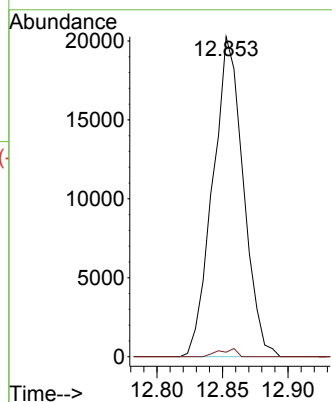
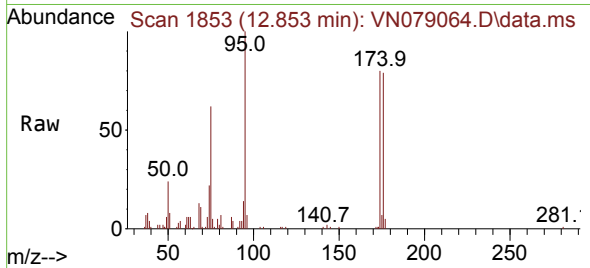




#72
1,2,3-Trichloropropane
Concen: 12.565 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 32729
Ion Ratio Lower Upper
75 100
77 1.5 0.0 367.4



#77
t-1,4-Dichloro-2-butene
Concen: 33.812 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079064.D
Acq: 28 Aug 2023 13:56

Tgt Ion: 75 Resp: 32729
Ion Ratio Lower Upper
75 100
53 0.0 60.1 180.3#
89 0.0 22.9 68.8#

