

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092123\
 Data File : VN079320.D
 Acq On : 21 Sep 2023 12:59
 Operator : JC\MD
 Sample : 04501-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 22 02:29:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

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

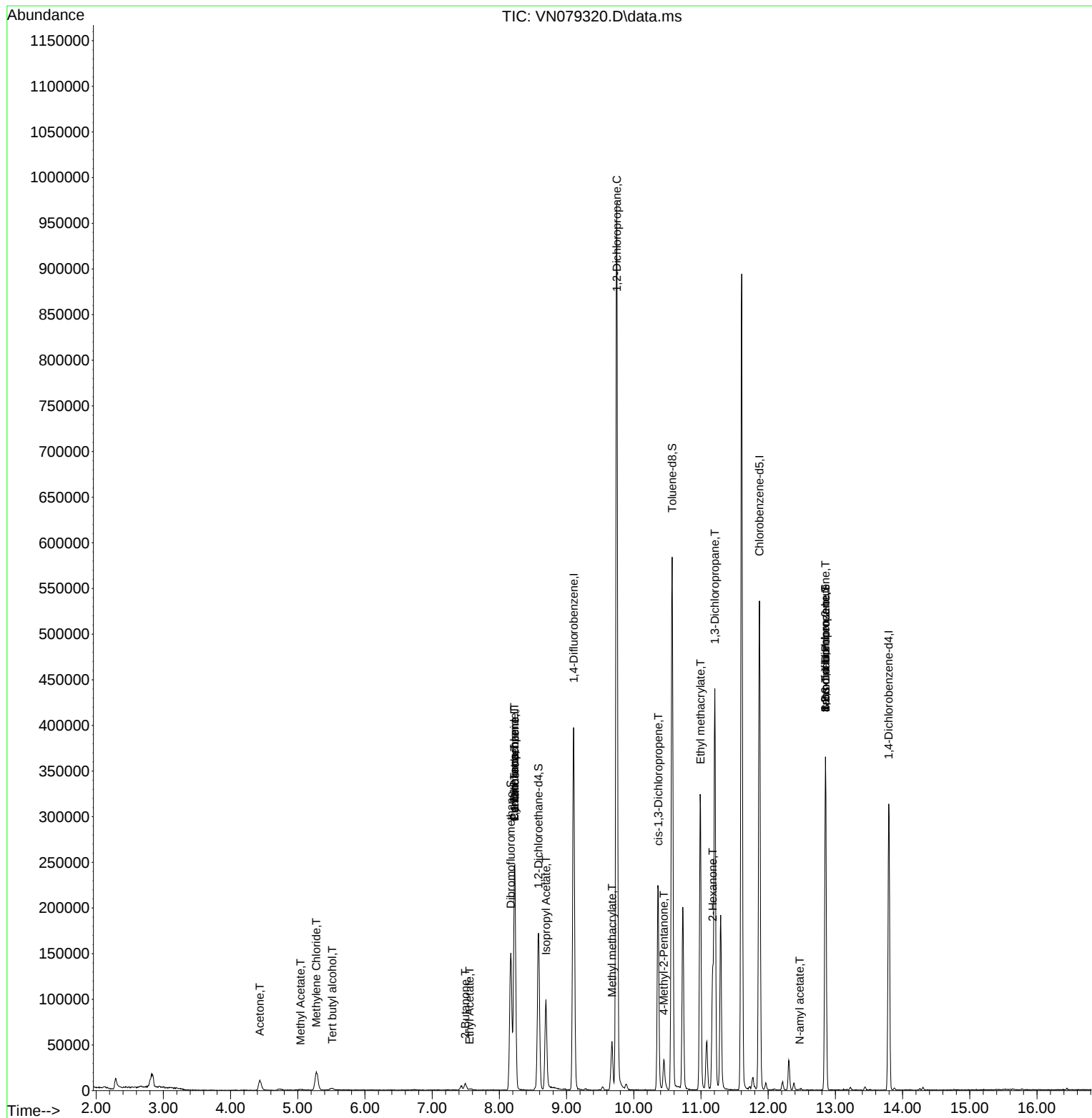
Internal Standards						
1) Pentafluorobenzene	8.230	168	175575	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	327343	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	301337	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	82057	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	142087	59.950	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	119.900%
35) Dibromofluoromethane	8.171	113	110429	50.715	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.440%
50) Toluene-d8	10.571	98	396277	49.565	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.120%
62) 4-Bromofluorobenzene	12.853	95	121294	47.561	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	95.120%
Target Compounds						
					Qvalue	
6) Chloroethane	3.118	64	656	Below Cal	#	43
11) Tert butyl alcohol	5.512	59	2671	6.104	ug/l #	72
16) Acetone	4.436	43	21442	21.302	ug/l #	85
18) Methyl Acetate	5.042	43	1059	0.256	ug/l #	52
20) Methylene Chloride	5.277	84	15832	6.463	ug/l #	82
25) 2-Butanone	7.494	43	12388	8.482	ug/l #	77
31) Cyclohexane	8.224	56	4954	1.432	ug/l #	47
36) 1,1-Dichloropropene	8.224	75	16181	4.821	ug/l #	49
37) Ethyl Acetate	7.559	43	3026	0.904	ug/l #	70
38) Carbon Tetrachloride	8.224	117	19474	5.607	ug/l #	15
43) Isopropyl Acetate	8.694	43	108585	19.879	ug/l #	81
45) 1,2-Dichloropropane	9.747	63	1243	0.487	ug/l #	45
48) Methyl methacrylate	9.677	41	3186	1.302	ug/l #	32
51) 4-Methyl-2-Pentanone	10.447	43	27159	8.565	ug/l #	78
54) cis-1,3-Dichloropropene	10.365	75	37782	9.449	ug/l #	73
56) Ethyl methacrylate	10.994	69	2058	0.588	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4210	0.983	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.171	63	72	Below Cal	#	42
59) 2-Hexanone	11.176	43	108645	47.308	ug/l #	19
71) Bromoform	12.853	173	1004	0.531	ug/l #	1
74) N-amyl acetate	12.471	43	1138	0.402	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	67850	30.680	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	67850	84.346	ug/l #	15

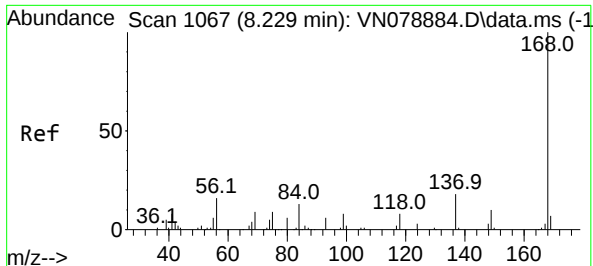
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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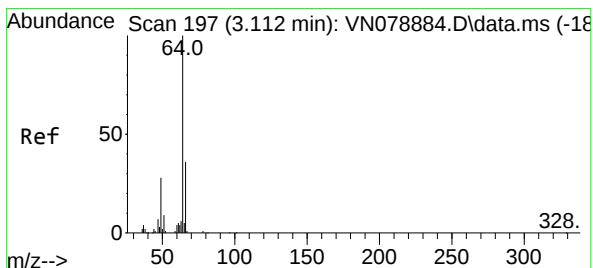
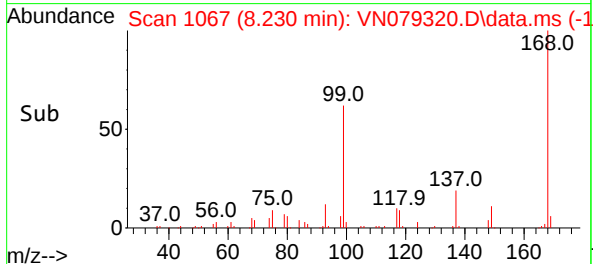
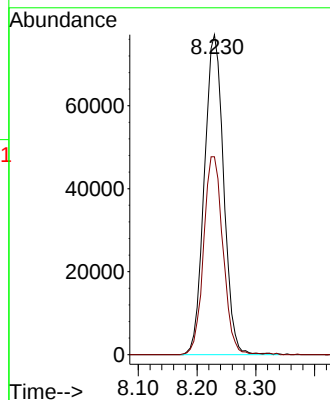
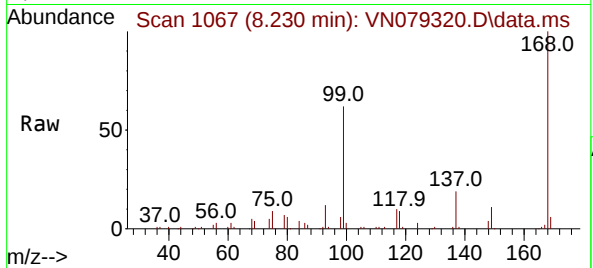




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

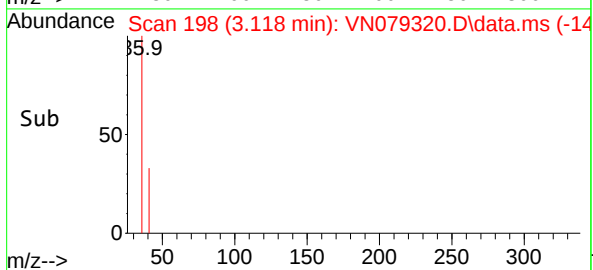
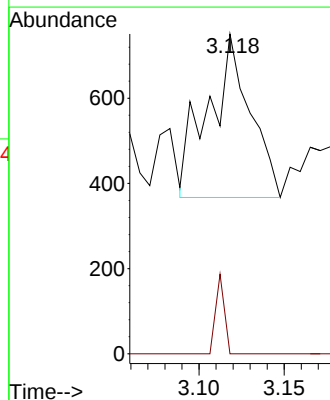
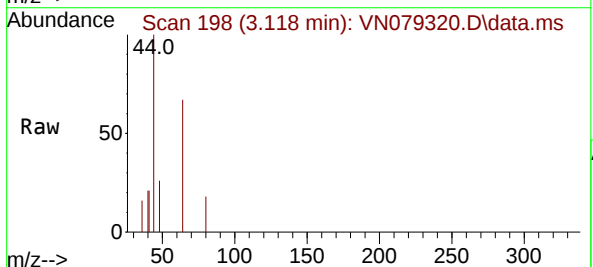
Instrument :
MSVOA_N
ClientSampleId :

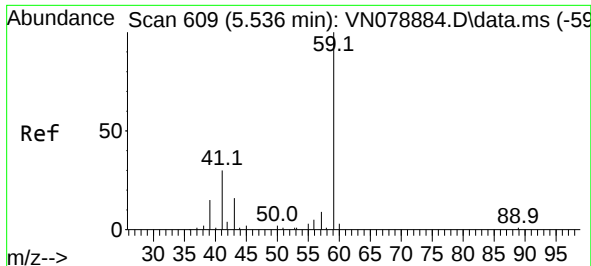
Tgt Ion:168 Resp: 175575
Ion Ratio Lower Upper
168 100
99 61.8 53.0 79.6



#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

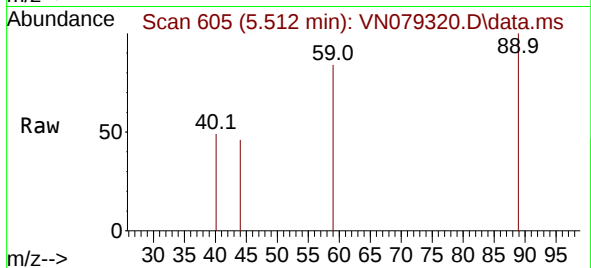
Tgt Ion: 64 Resp: 656
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



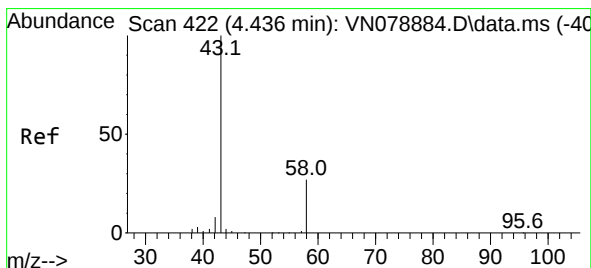
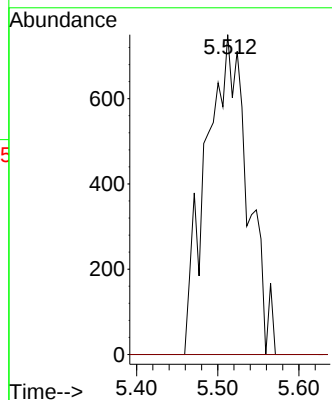
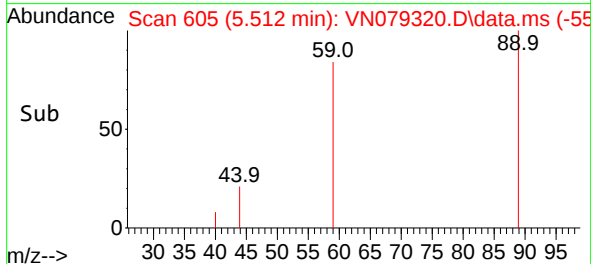


#11
Tert butyl alcohol
Concen: 6.104 ug/l
RT: 5.512 min Scan# 609
Delta R.T. -0.030 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

Instrument :
MSVOA_N
ClientSampleId :

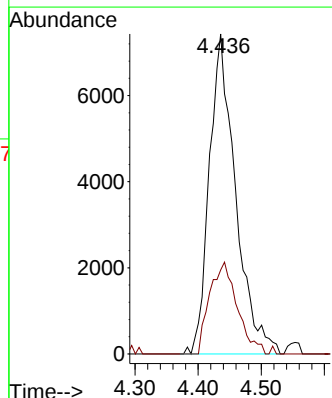
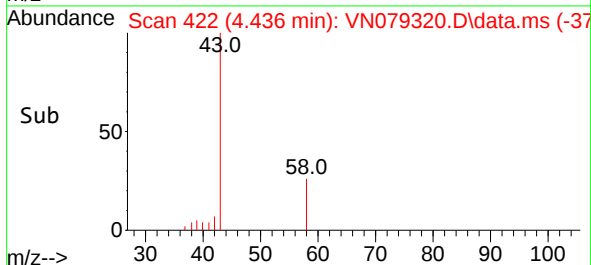
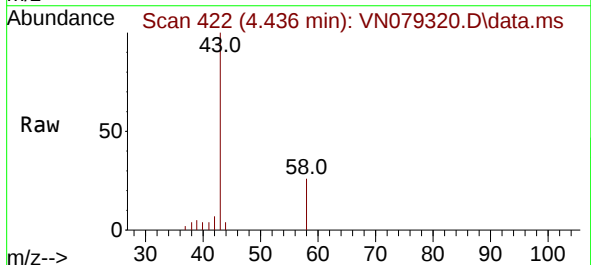


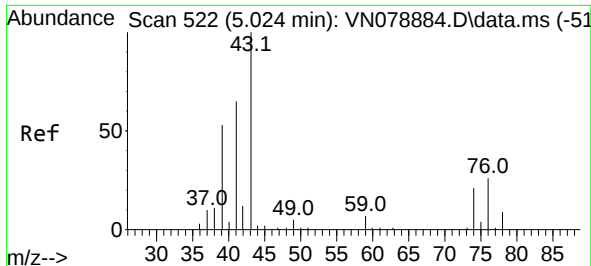
Tgt Ion: 59 Resp: 2671
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 21.302 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

Tgt Ion: 43 Resp: 21442
Ion Ratio Lower Upper
43 100
58 26.3 28.0 42.0#

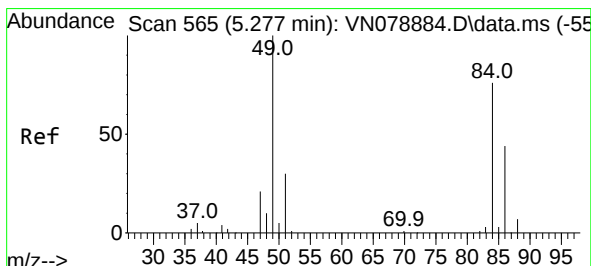
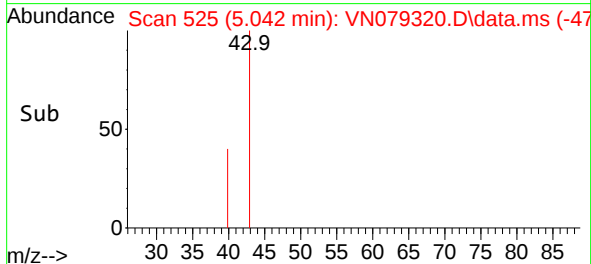
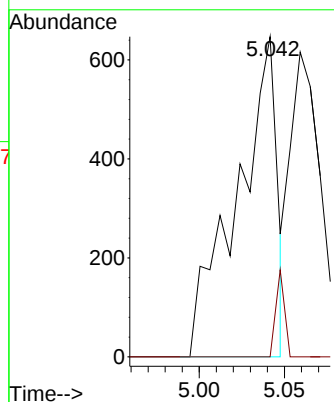
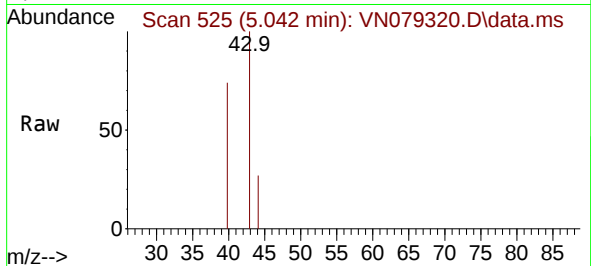




#18
Methyl Acetate
Concen: 0.256 ug/l
RT: 5.042 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

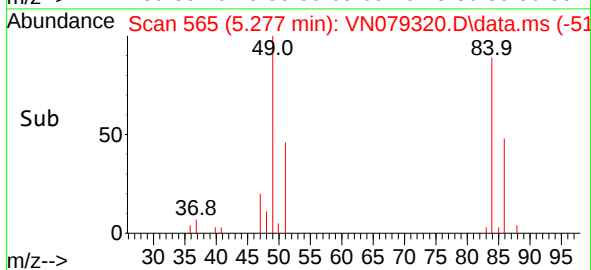
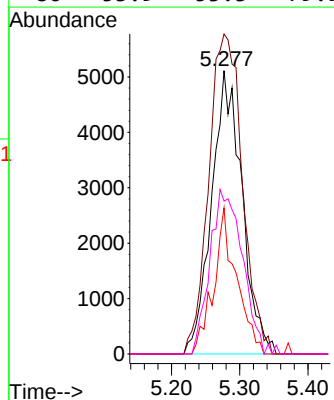
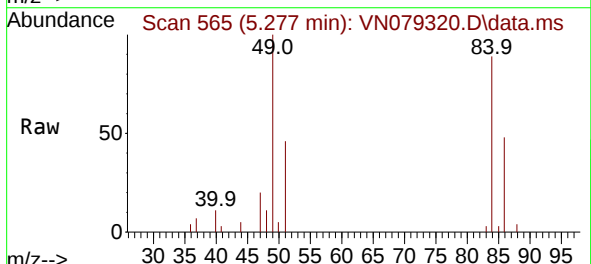
Instrument :
MSVOA_N
ClientSampleId :

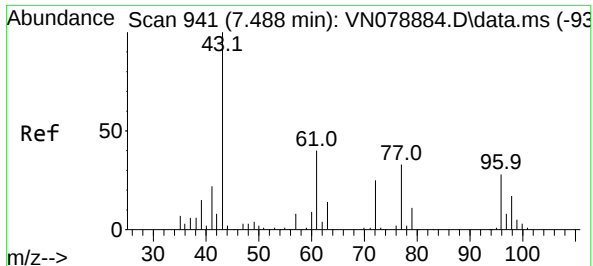
Tgt Ion: 43 Resp: 1059
Ion Ratio Lower Upper
43 100
74 5.9 26.2 39.4#



#20
Methylene Chloride
Concen: 6.463 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

Tgt Ion: 84 Resp: 15832
Ion Ratio Lower Upper
84 100
49 112.9 79.7 119.5
51 51.6 25.2 37.8#
86 53.9 53.3 79.9

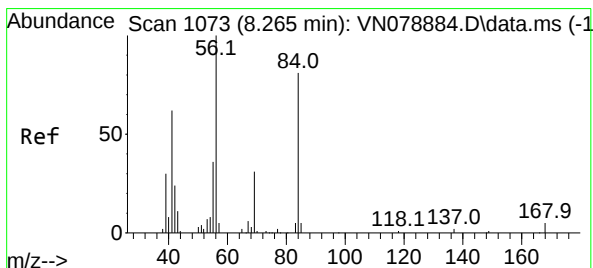
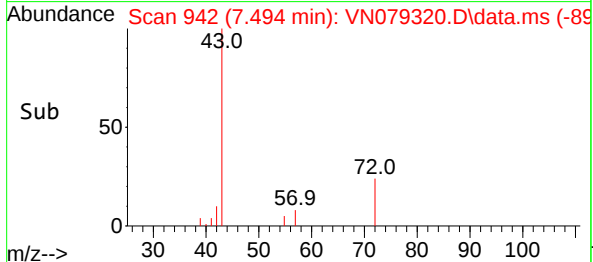
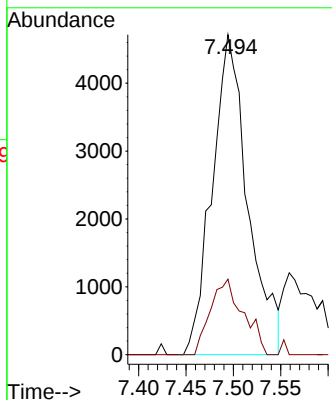
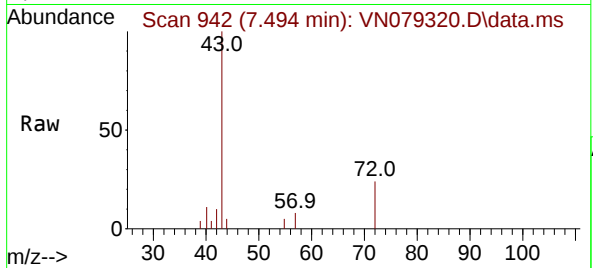




#25
2-Butanone
Concen: 8.482 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

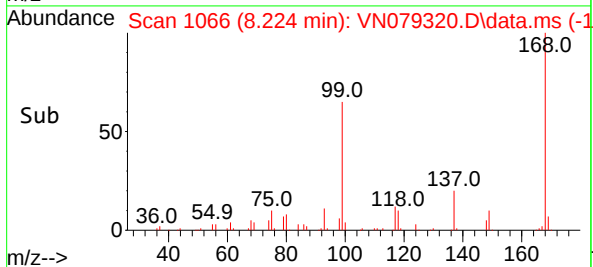
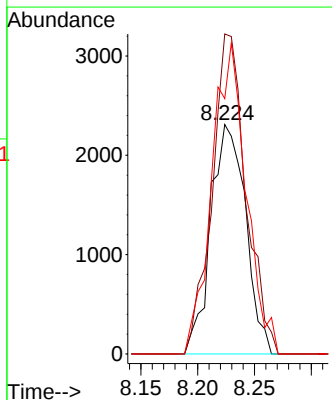
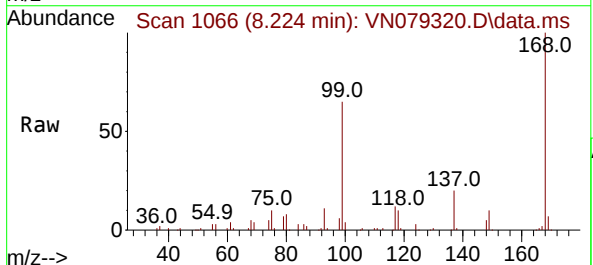
Instrument :
MSVOA_N
ClientSampleId :

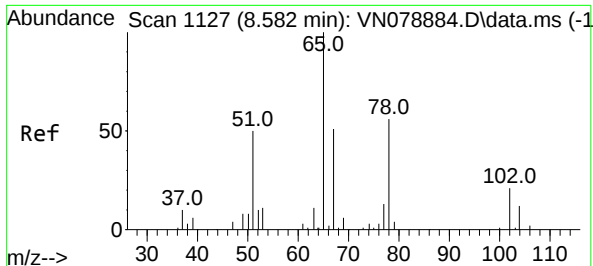
Tgt Ion: 43 Resp: 12388
Ion Ratio Lower Upper
43 100
72 23.6 30.2 45.2#



#31
Cyclohexane
Concen: 1.432 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

Tgt Ion: 56 Resp: 4954
Ion Ratio Lower Upper
56 100
69 139.5 26.8 40.2#
84 111.3 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 59.950 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079320.D

Acq: 21 Sep 2023 12:59

Instrument :

MSVOA_N

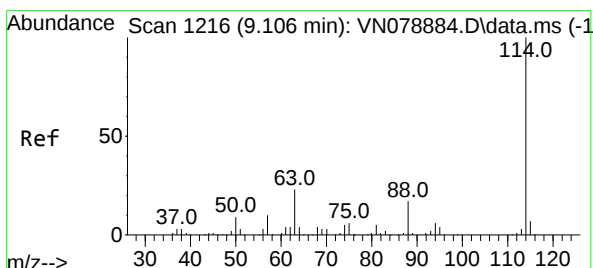
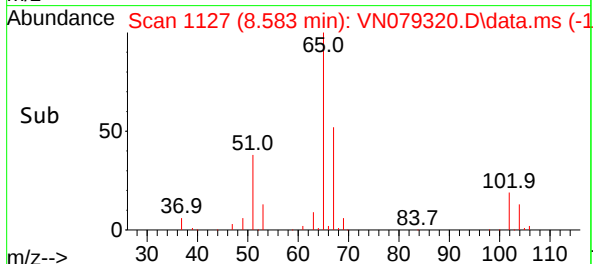
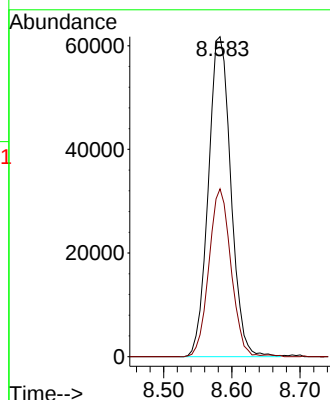
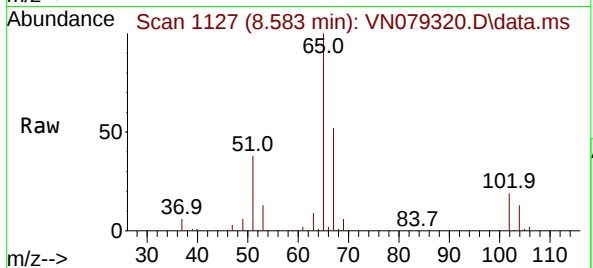
ClientSampleId :

Tgt Ion: 65 Resp: 142087

Ion Ratio Lower Upper

65 100

67 51.2 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN079320.D

Acq: 21 Sep 2023 12:59

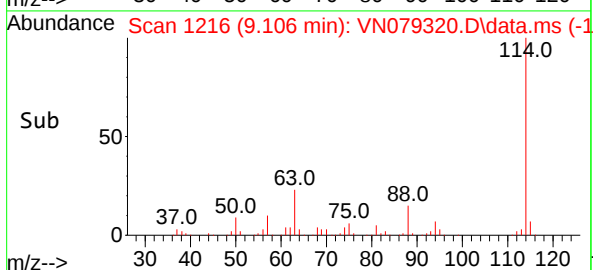
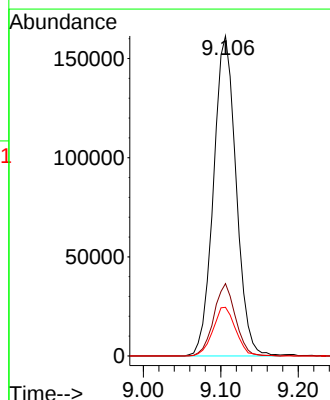
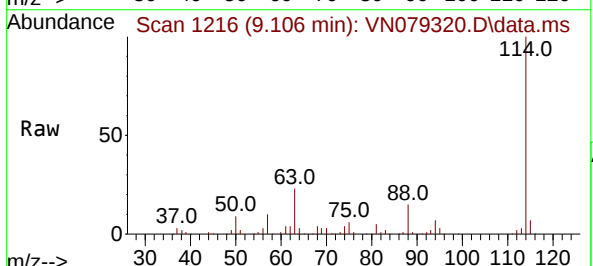
Tgt Ion: 114 Resp: 327343

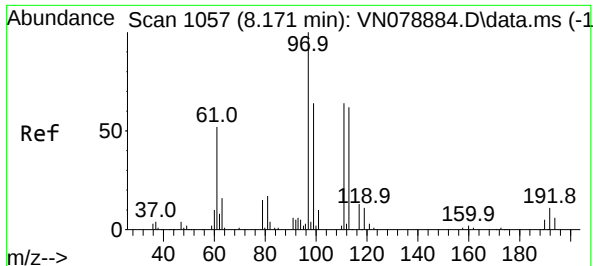
Ion Ratio Lower Upper

114 100

63 22.6 0.0 36.4

88 15.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.715 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

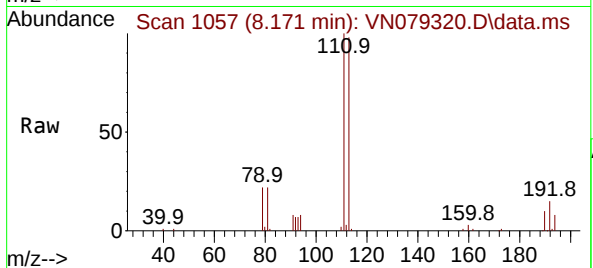
Lab File: VN079320.D

Acq: 21 Sep 2023 12:59

Instrument :

MSVOA_N

ClientSampleId :



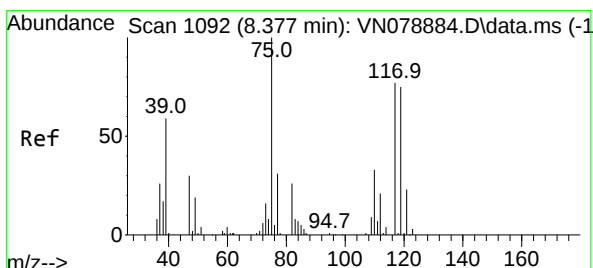
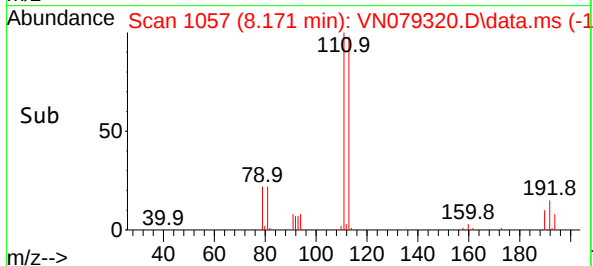
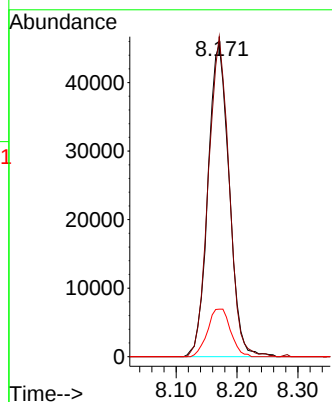
Tgt Ion:113 Resp: 110429

Ion Ratio Lower Upper

113 100

111 99.7 82.6 123.8

192 16.5 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.821 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN079320.D

Acq: 21 Sep 2023 12:59

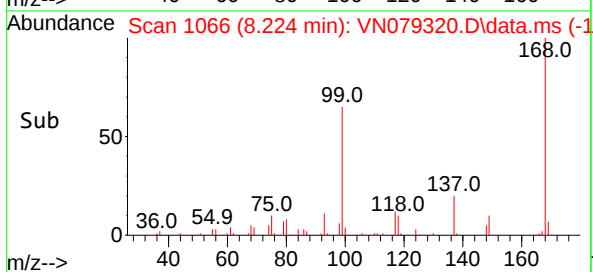
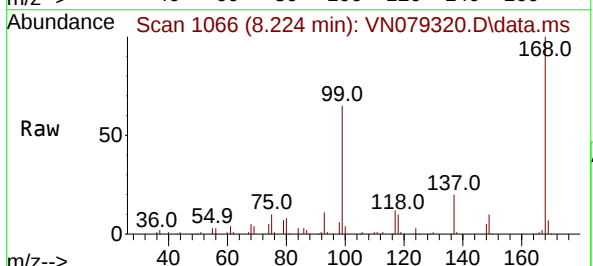
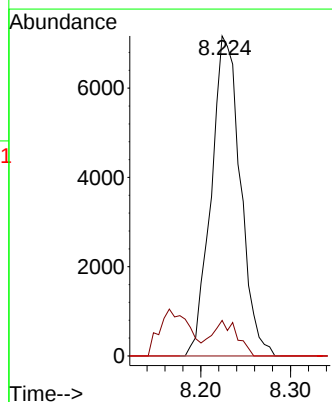
Tgt Ion: 75 Resp: 16181

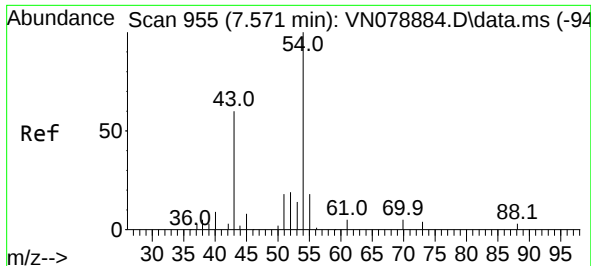
Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.904 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.012 min

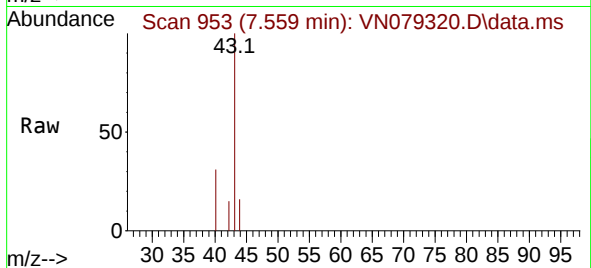
Lab File: VN079320.D

Acq: 21 Sep 2023 12:59

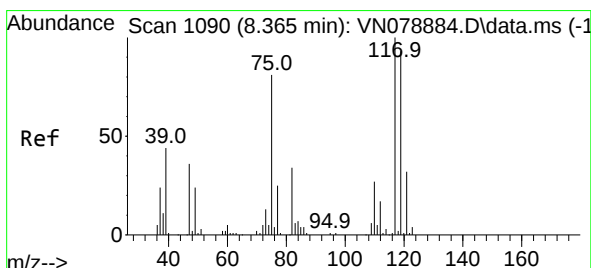
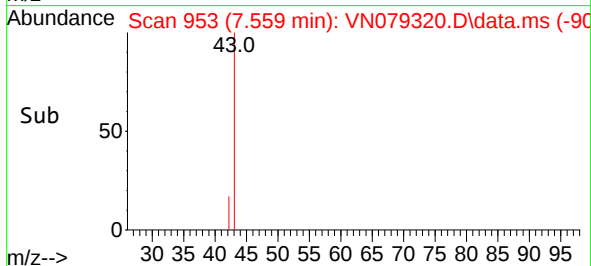
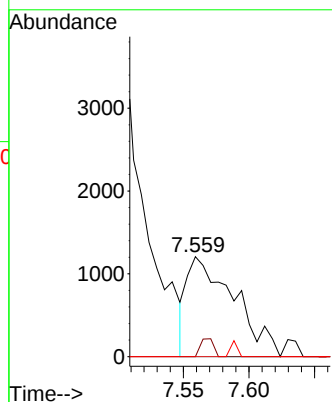
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	3026
Ion Ratio	100	Lower	Upper
43	100		
61	5.0	13.2	19.8#
70	0.0	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 5.607 ug/l

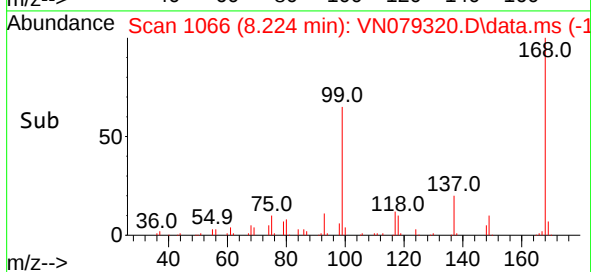
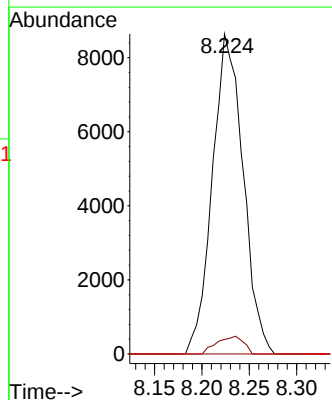
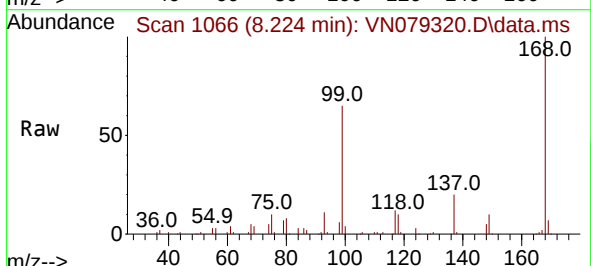
RT: 8.224 min Scan# 1066

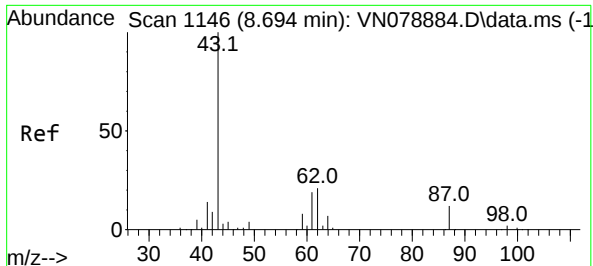
Delta R.T. -0.147 min

Lab File: VN079320.D

Acq: 21 Sep 2023 12:59

Tgt Ion:	117	Resp:	19474
Ion Ratio	100	Lower	Upper
117	100		
119	4.5	77.3	115.9#
121	0.0	23.3	34.9#





#43

Isopropyl Acetate

Concen: 19.879 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079320.D

Acq: 21 Sep 2023 12:59

Instrument :

MSVOA_N

ClientSampleId :

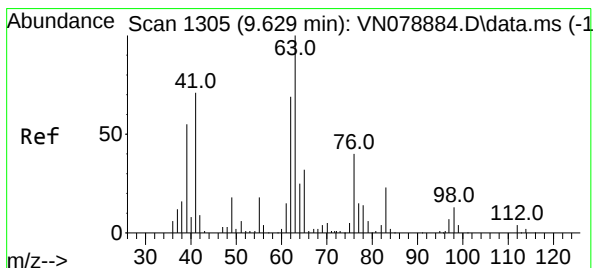
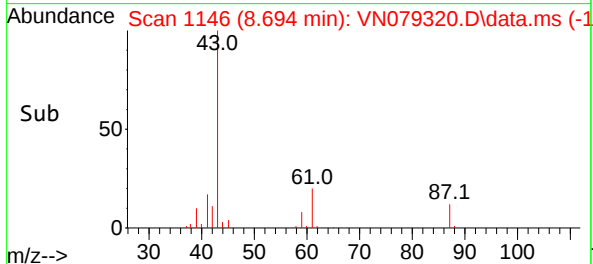
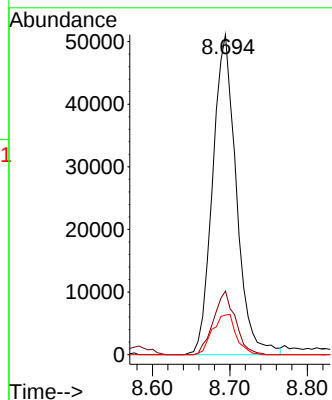
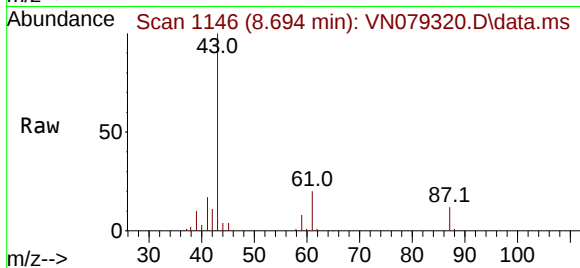
Tgt Ion: 43 Resp: 108585

Ion Ratio Lower Upper

43 100

61 18.4 24.7 37.1#

87 12.5 14.6 21.8#



#45

1,2-Dichloropropane

Concen: 0.487 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.123 min

Lab File: VN079320.D

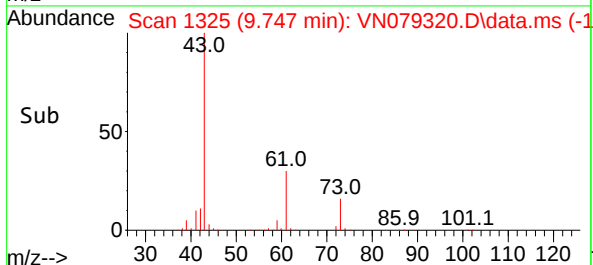
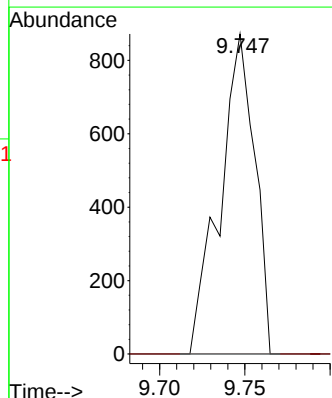
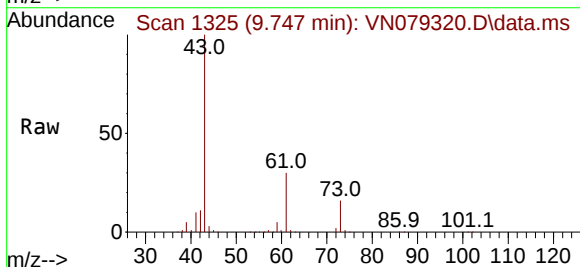
Acq: 21 Sep 2023 12:59

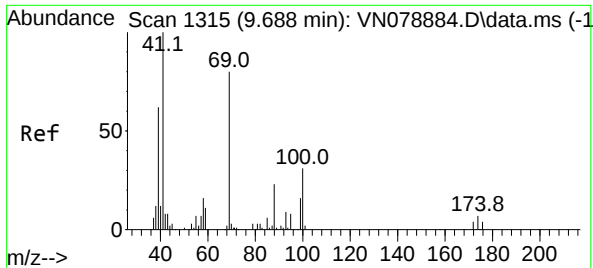
Tgt Ion: 63 Resp: 1243

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#

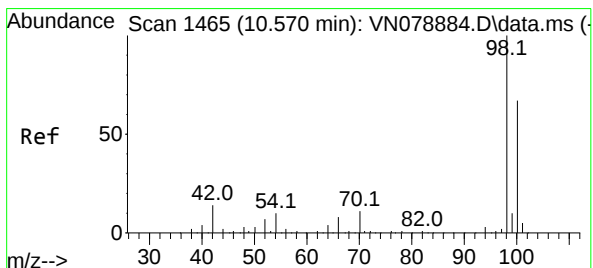
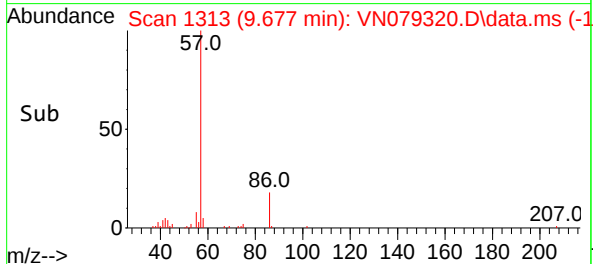
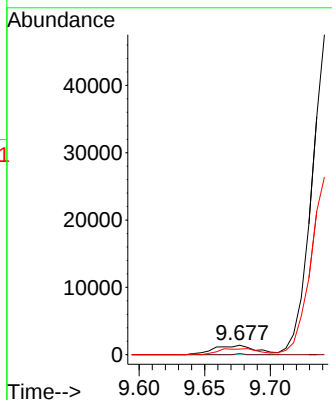
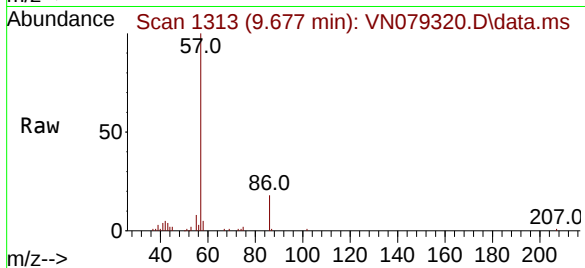




#48
Methyl methacrylate
Concen: 1.302 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.011 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

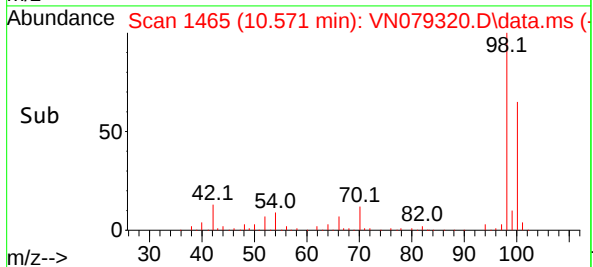
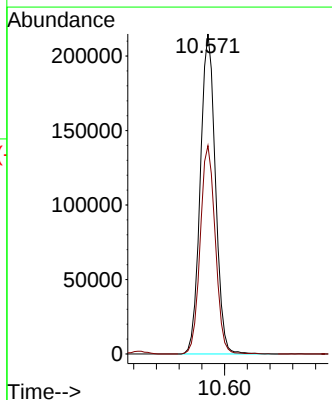
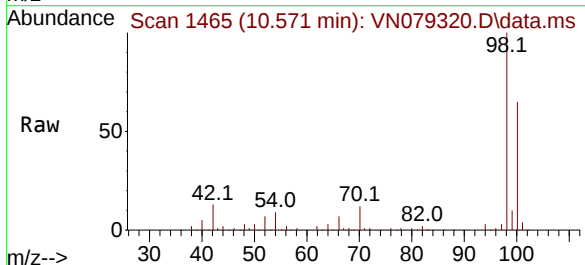
Instrument :
MSVOA_N
ClientSampleId :

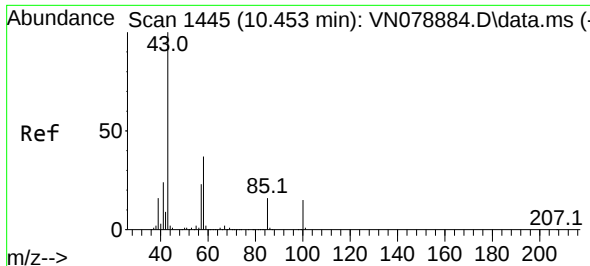
Tgt Ion: 41 Resp: 3186
Ion Ratio Lower Upper
41 100
69 1.9 90.4 135.6#
39 60.3 54.6 81.8



#50
Toluene-d8
Concen: 49.565 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

Tgt Ion: 98 Resp: 396277
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 8.565 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.006 min

Lab File: VN079320.D

Acq: 21 Sep 2023 12:59

Instrument :

MSVOA_N

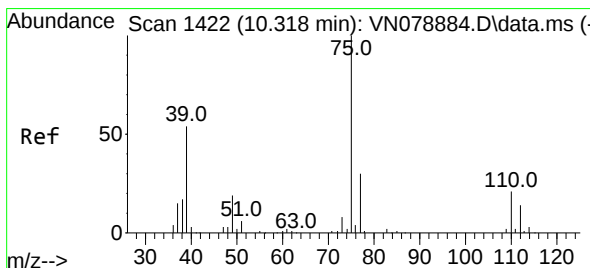
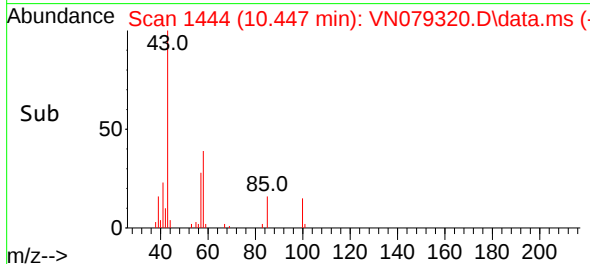
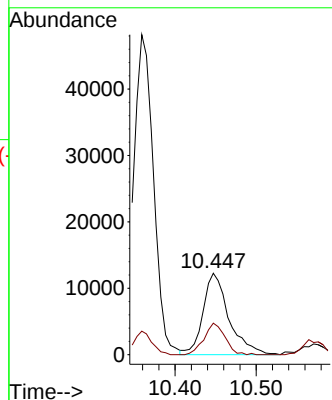
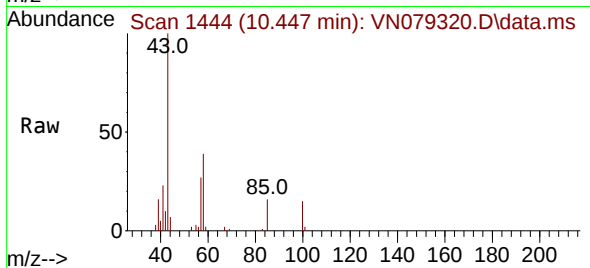
ClientSampleId :

Tgt Ion: 43 Resp: 27159

Ion Ratio Lower Upper

43 100

58 31.2 36.6 54.8#



#54

cis-1,3-Dichloropropene

Concen: 9.449 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN079320.D

Acq: 21 Sep 2023 12:59

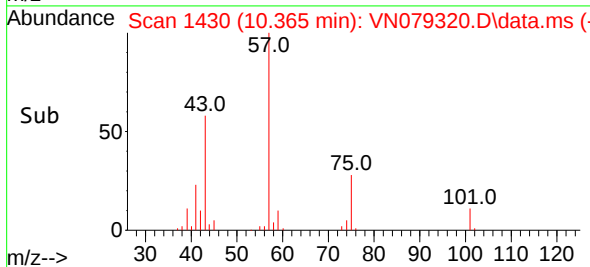
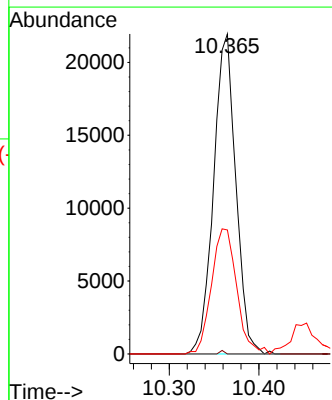
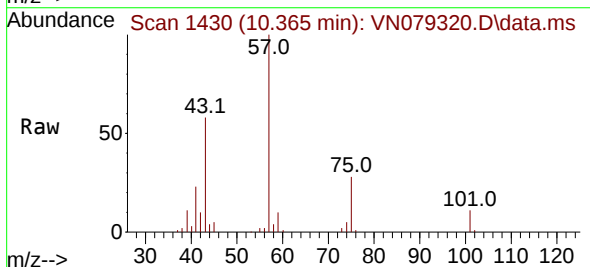
Tgt Ion: 75 Resp: 37782

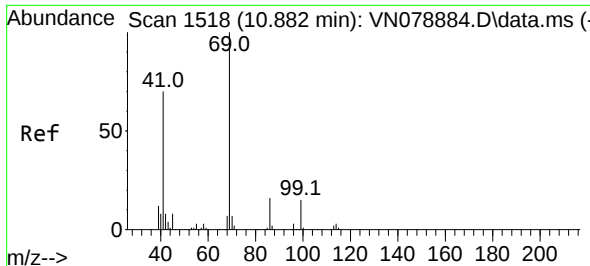
Ion Ratio Lower Upper

75 100

77 0.0 26.1 39.1#

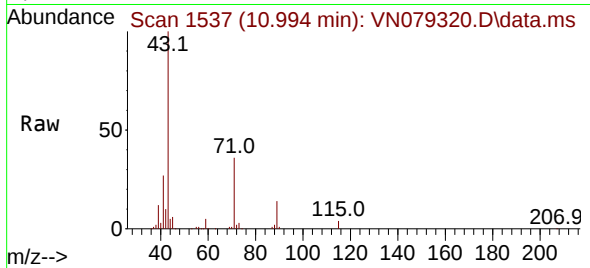
39 38.7 31.6 47.4



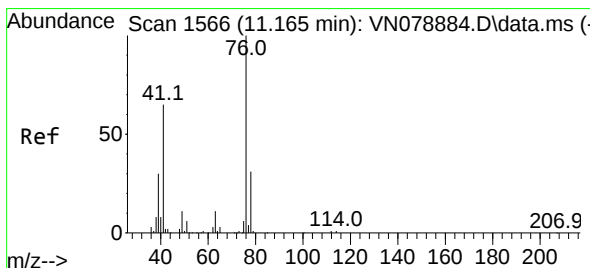
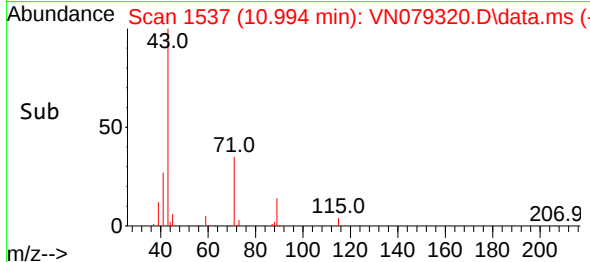
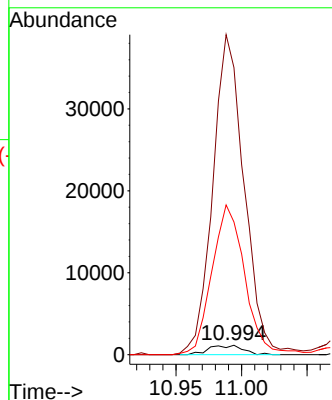


#56
Ethyl methacrylate
Concen: 0.588 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.117 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

Instrument :
MSVOA_N
ClientSampleId :

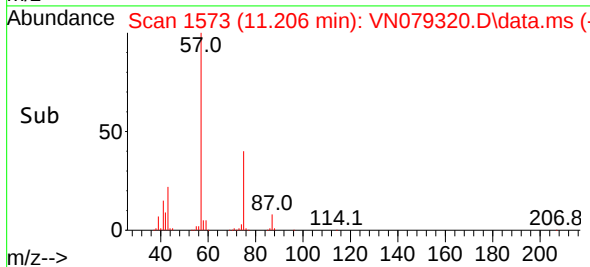
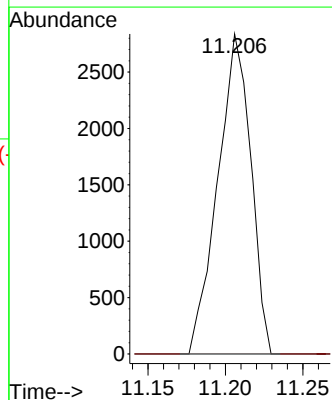
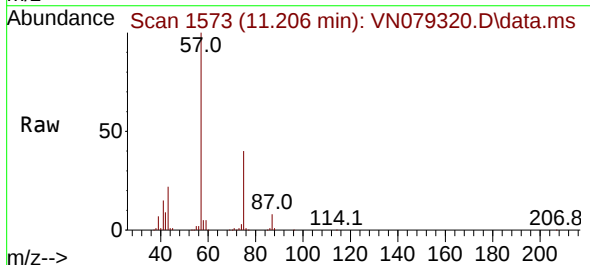


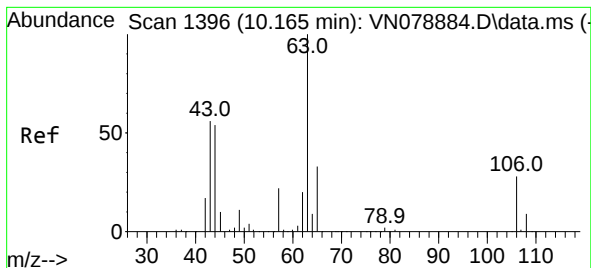
Tgt Ion: 69 Resp: 2058
Ion Ratio Lower Upper
69 100
41 3167.8 39.6 59.4#
39 1547.8 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 0.983 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

Tgt Ion: 76 Resp: 4210
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

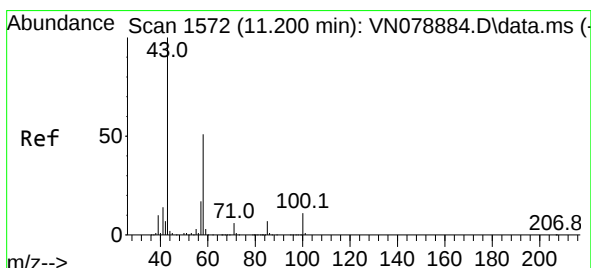
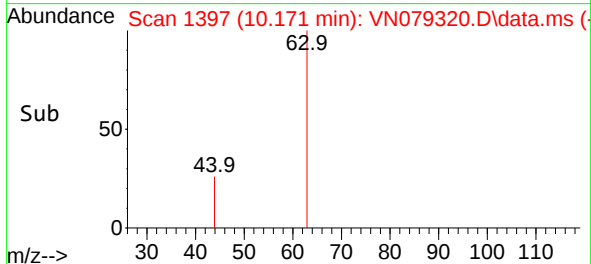
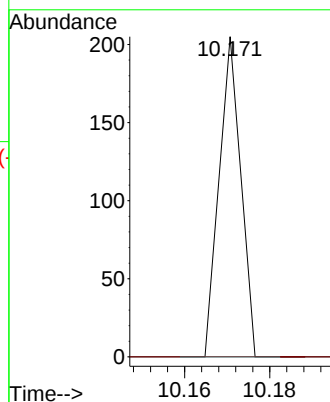
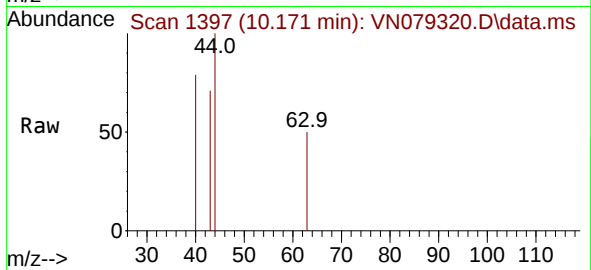




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 10.171 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

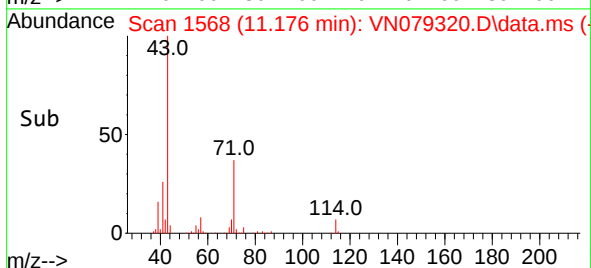
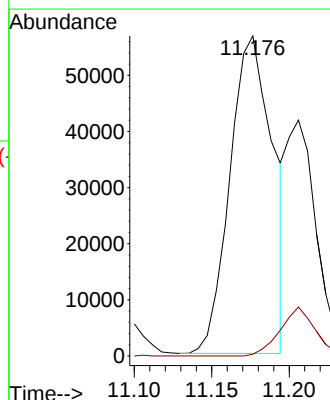
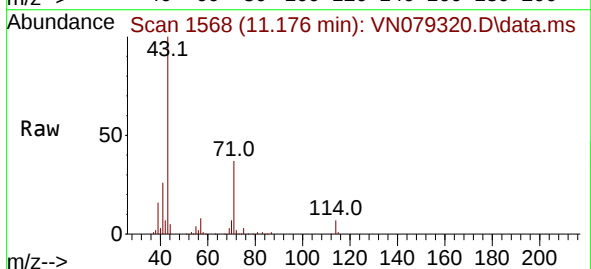
Instrument :
MSVOA_N
ClientSampleId :

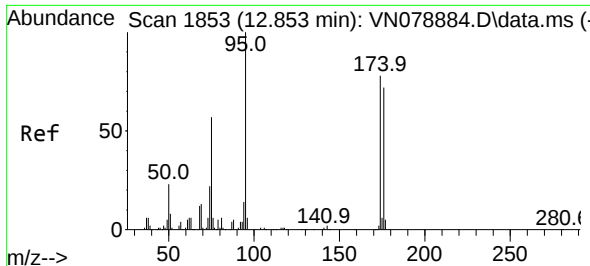
Tgt Ion: 63 Resp: 72
Ion Ratio Lower Upper
63 100
106 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 47.308 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.024 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

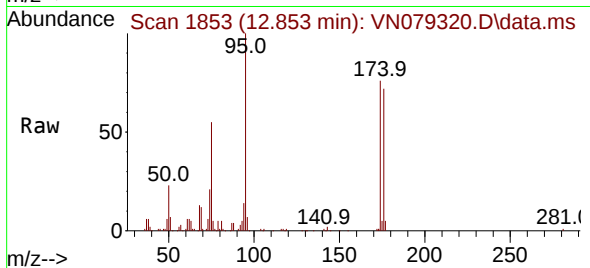
Tgt Ion: 43 Resp: 108645
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



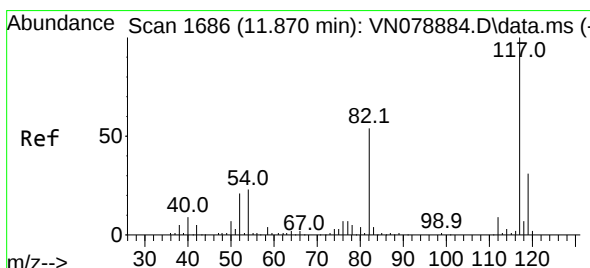
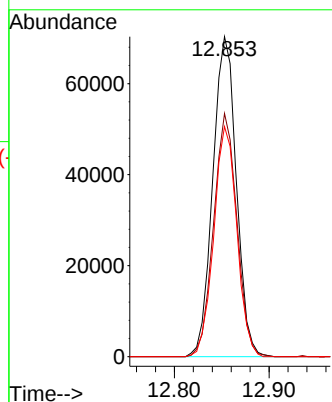
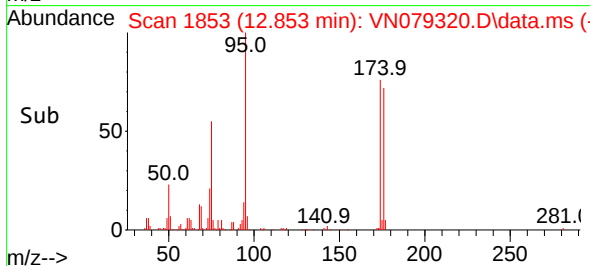


#62
4-Bromofluorobenzene
Concen: 47.561 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

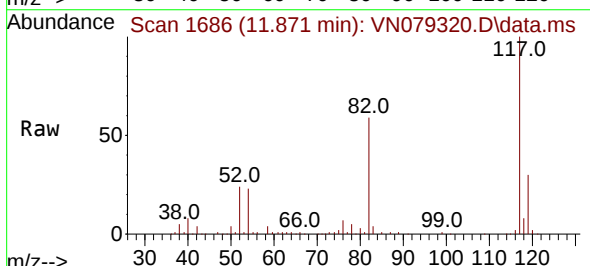
Instrument :
MSVOA_N
ClientSampleId :



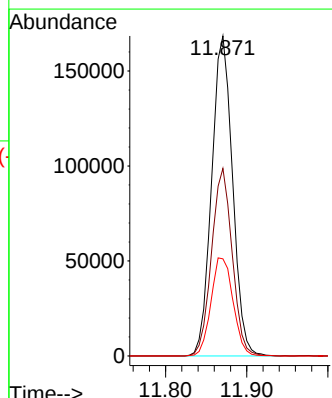
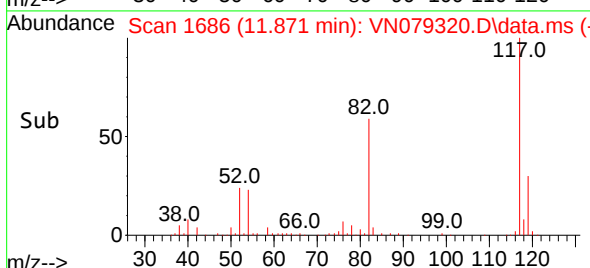
Tgt Ion: 95 Resp: 121294
Ion Ratio Lower Upper
95 100
174 75.1 0.0 143.8
176 70.5 0.0 135.8

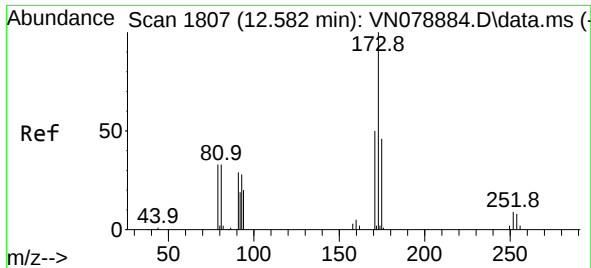


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59



Tgt Ion: 117 Resp: 301337
Ion Ratio Lower Upper
117 100
82 58.6 44.0 66.0
119 30.4 25.6 38.4

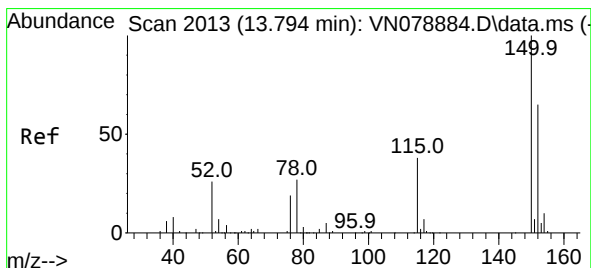
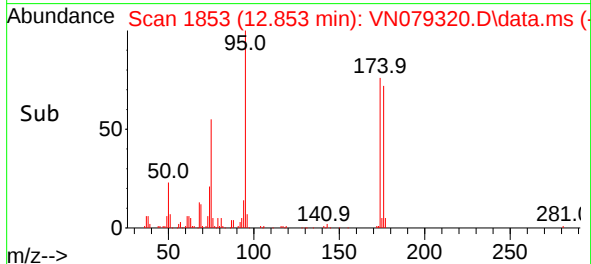
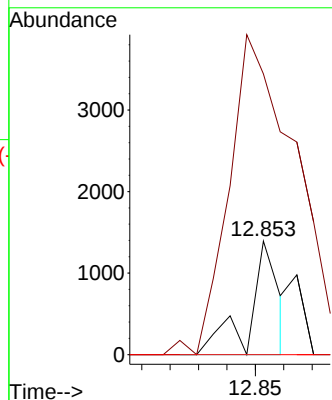
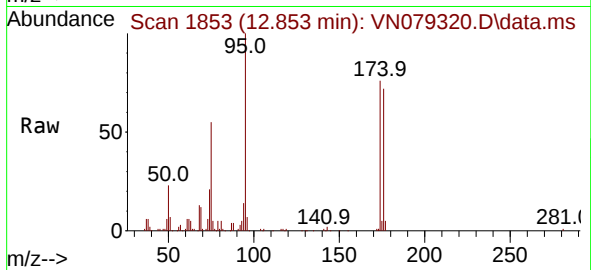




#71
Bromoform
Concen: 0.531 ug/l
RT: 12.853 min Scan# 1807
Delta R.T. 0.271 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

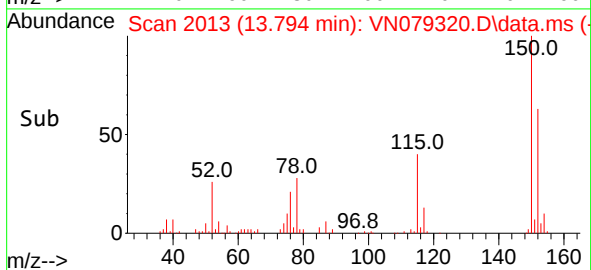
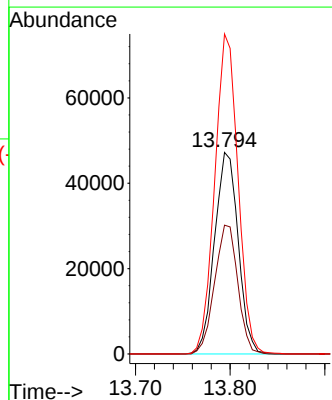
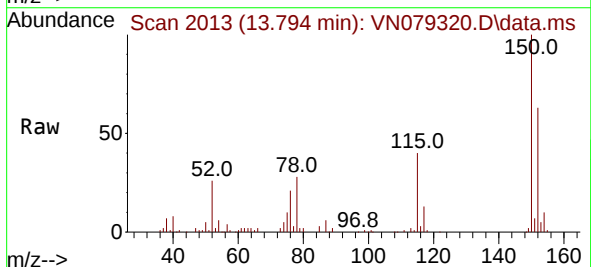
Instrument :
MSVOA_N
ClientSampleId :

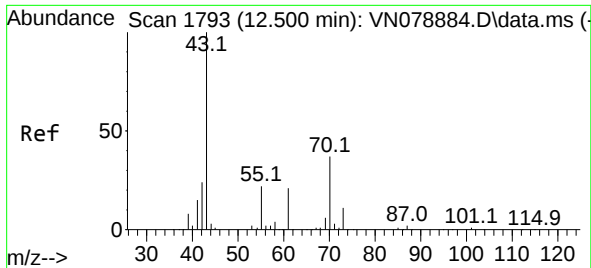
Tgt Ion:173 Resp: 1004
Ion Ratio Lower Upper
173 100
175 466.9 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

Tgt Ion:152 Resp: 82057
Ion Ratio Lower Upper
152 100
115 62.6 32.3 96.8
150 156.1 0.0 355.8

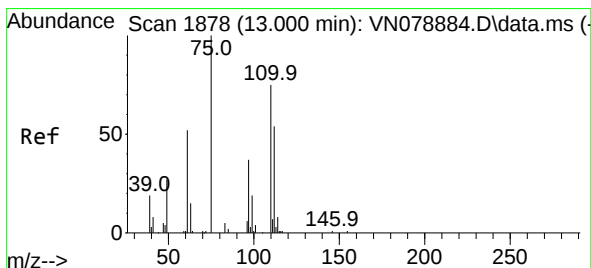
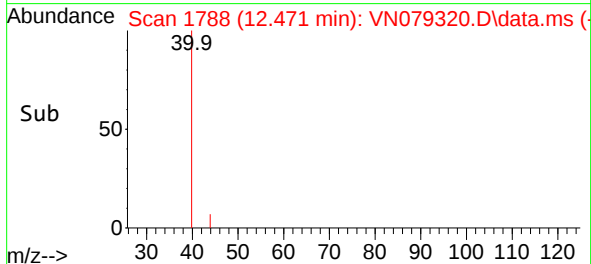
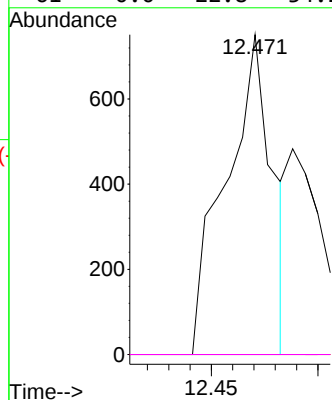
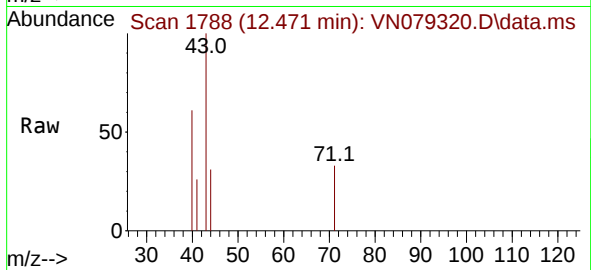




#74
N-amy1 acetate
Concen: 0.402 ug/l
RT: 12.471 min Scan# 1138
Delta R.T. -0.029 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

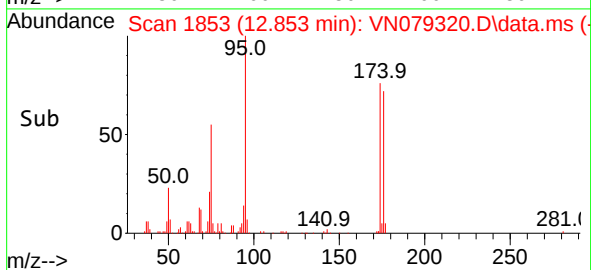
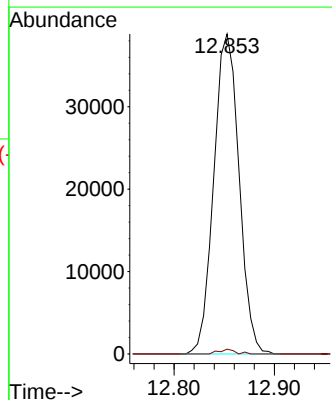
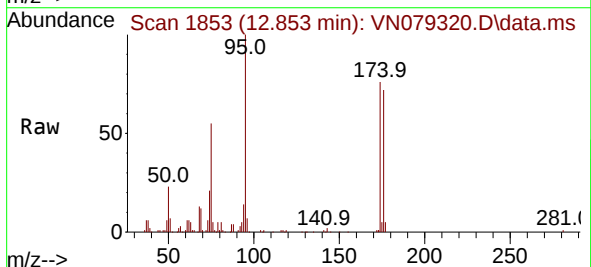
Instrument :
MSVOA_N
ClientSampleId :

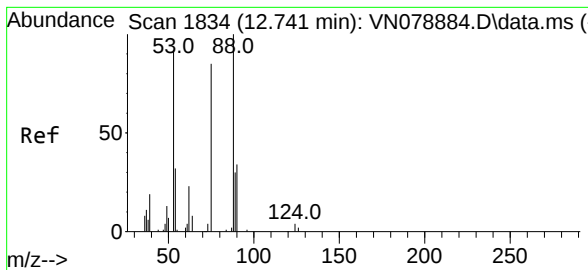
Tgt Ion: 43	Resp: 1138
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 0.0	21.4 32.0#
61 0.0	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 30.680 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079320.D
Acq: 21 Sep 2023 12:59

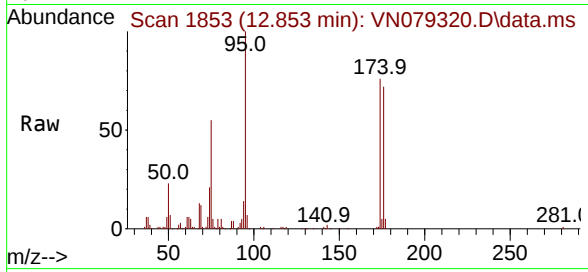
Tgt Ion: 75	Resp:	67850	
Ion Ratio	Lower	Upper	
75 100			
77 1.0	84.5	253.5#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.346 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079320.D
 Acq: 21 Sep 2023 12:59

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 67850
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.0 38.8 58.2#

