

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101823\
 Data File : VN079602.D
 Acq On : 18 Oct 2023 15:49
 Operator : JC\MD
 Sample : 04943-03 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 19 06:16:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

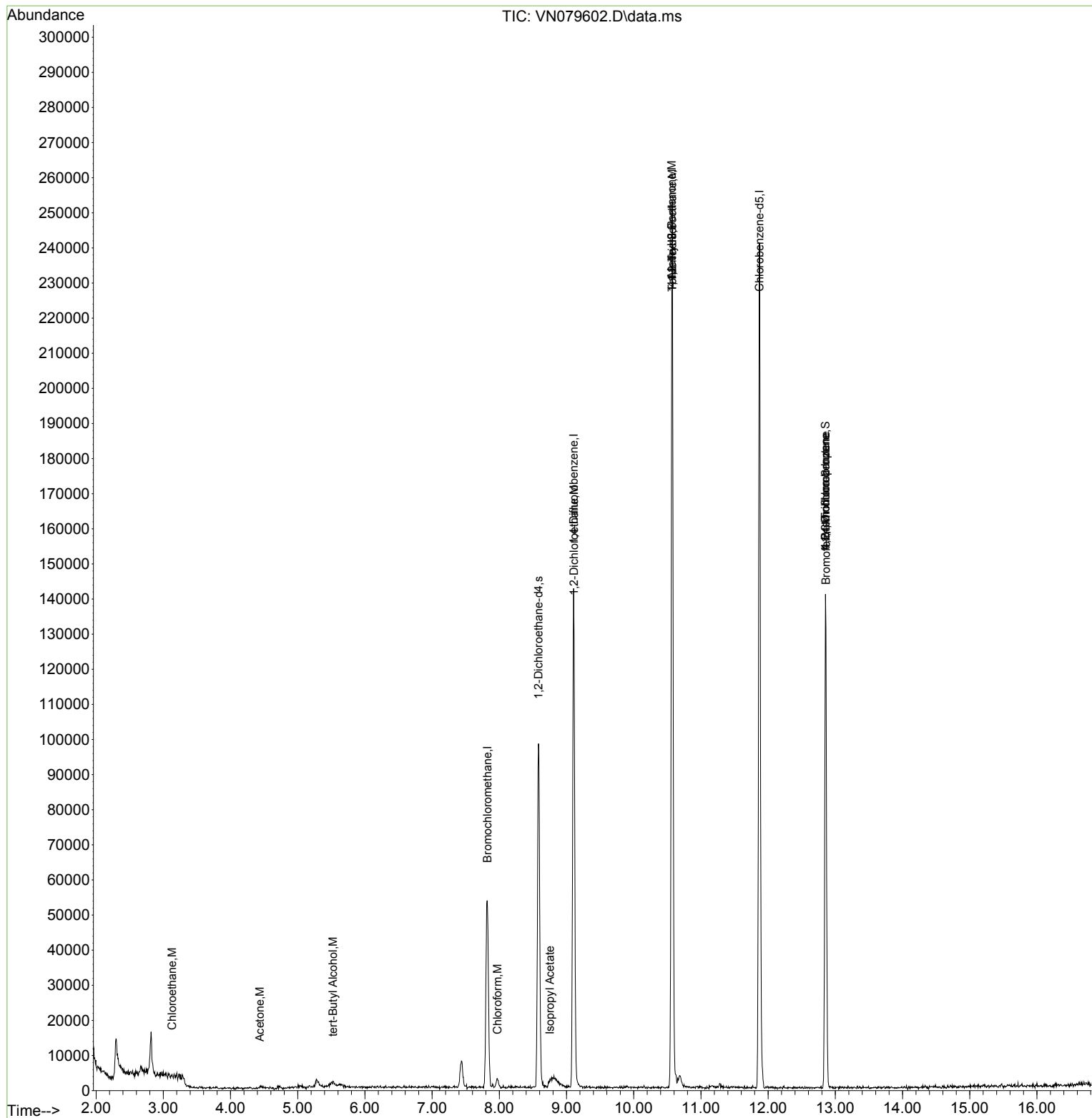
Internal Standards						
1) Bromochloromethane	7.824	128	19482	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	121387	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	140056	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	81126	29.288	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.633%		
60) 4-Bromofluorobenzene	12.853	95	48971	19.120	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	63.733%		
63) Toluene-d8	10.571	98	176018	29.329	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.767%		
Target Compounds						
					Qvalue	
6) Chloroethane	3.130	64	798	0.287	ug/l #	46
15) Acetone	4.436	58	131	0.273	ug/l #	1
23) tert-Butyl Alcohol	5.524	59	317	0.626	ug/l #	100
25) Chloroform	7.971	83	2675	0.454	ug/l #	61
36) 1,2-Dichloroethane	9.112	62	4505	1.171	ug/l #	75
44) Isopropyl Acetate	8.753	43	1309	0.220	ug/l #	1
50) 1,1,2-Trichloroethane	10.571	97	5554	2.145	ug/l #	1
56) Bromoform	12.859	173	586	0.335	ug/l #	1
58) 4-Methyl-2-Pentanone	10.565	43	879	0.269	ug/l #	21
72) 1,2,3-Trichloropropane	12.853	75	27774	8.595	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	27774	28.161	ug/l #	7

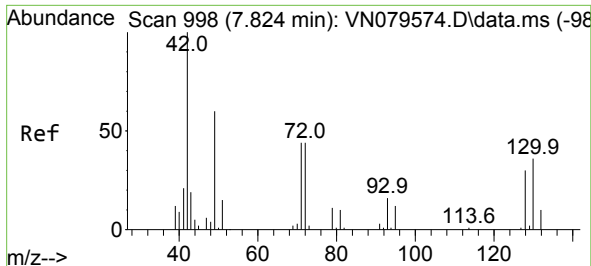
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Oct 19 06:16:00 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 18 02:19:15 2023
Response via : Initial Calibration

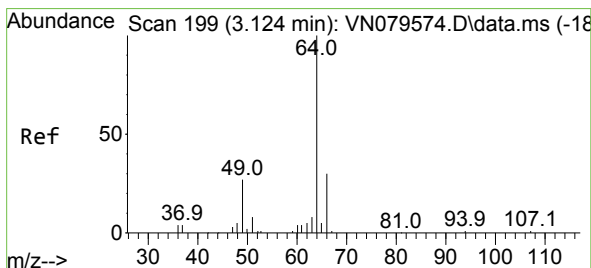
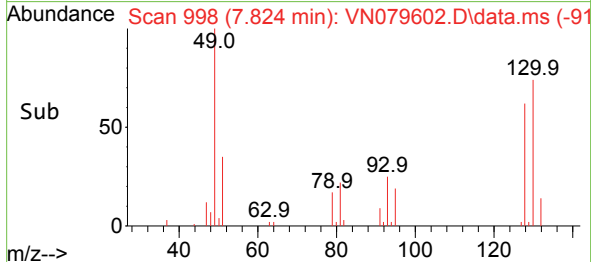
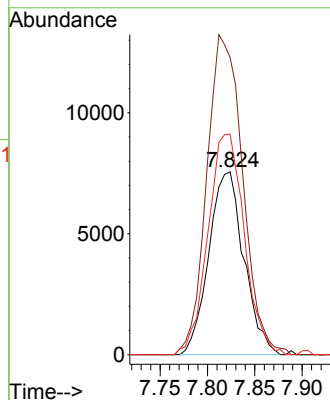
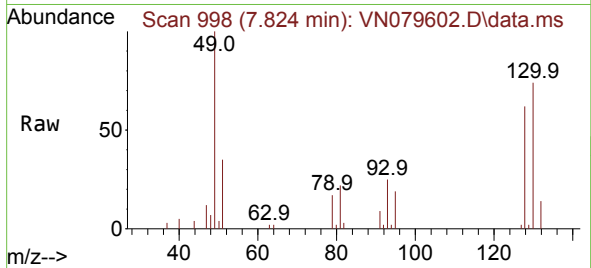




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

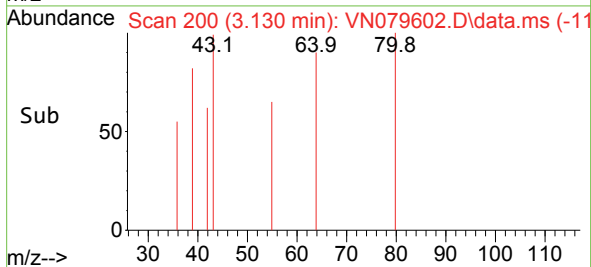
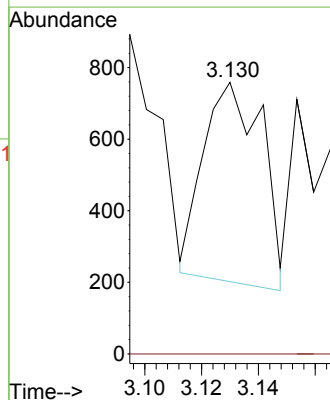
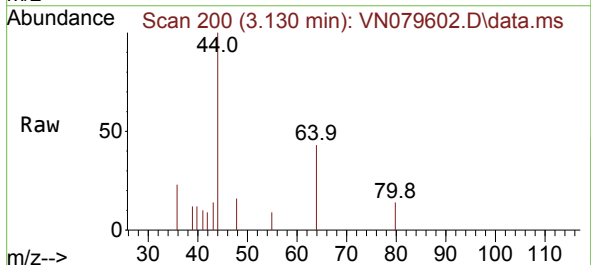
Instrument :
MSVOA_N
ClientSampleId :

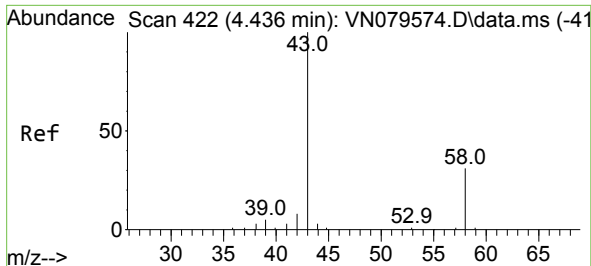
Tgt Ion:128 Resp: 19482
Ion Ratio Lower Upper
128 100
49 178.9 0.0 468.5
130 125.0 0.0 320.7



#6
Chloroethane
Concen: 0.287 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.006 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

Tgt Ion: 64 Resp: 798
Ion Ratio Lower Upper
64 100
66 0.0 23.3 34.9#





#15

Acetone

Concen: 0.273 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN079602.D

Acq: 18 Oct 2023 15:49

Instrument :

MSVOA_N

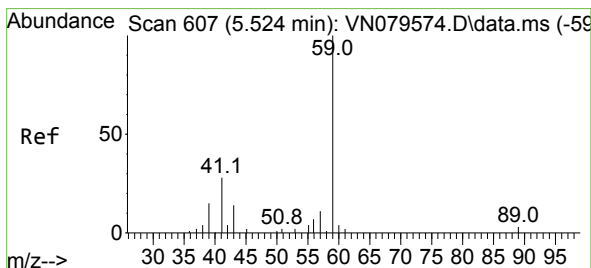
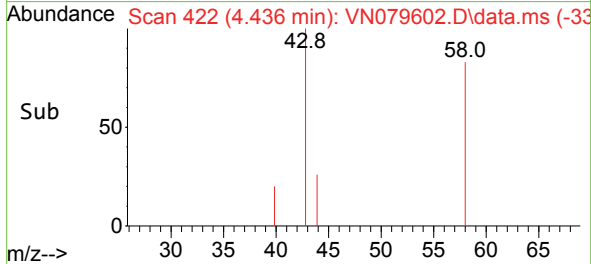
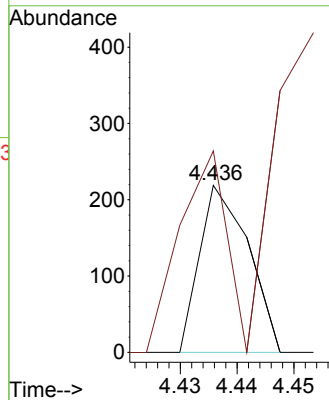
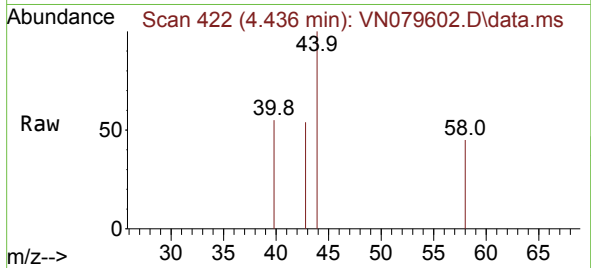
ClientSampleId :

Tgt Ion: 58 Resp: 131

Ion Ratio Lower Upper

58 100

43 44.3 225.2 337.8#



#23

tert-Butyl Alcohol

Concen: 0.626 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.000 min

Lab File: VN079602.D

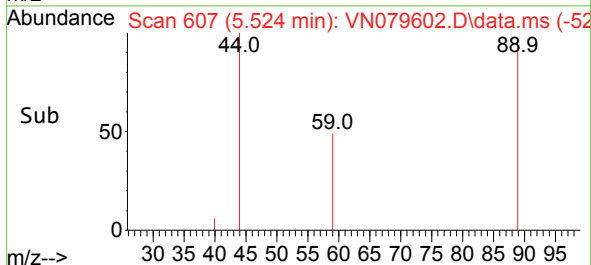
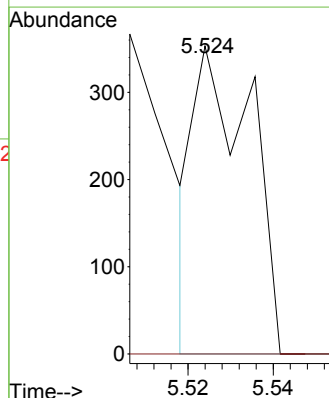
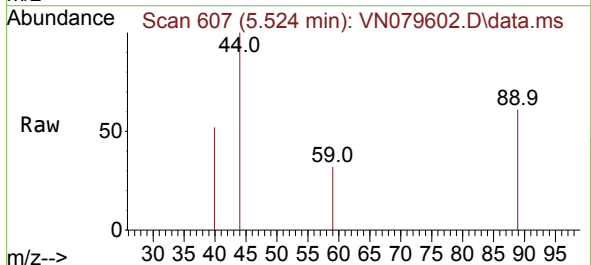
Acq: 18 Oct 2023 15:49

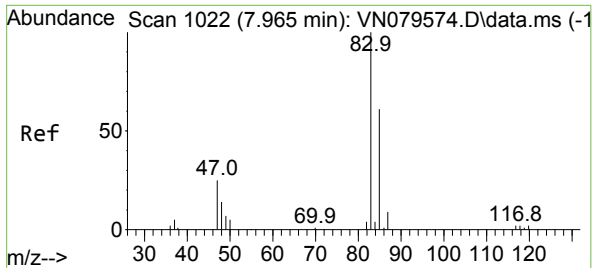
Tgt Ion: 59 Resp: 317

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#25

Chloroform

Concen: 0.454 ug/l

RT: 7.971 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN079602.D

Acq: 18 Oct 2023 15:49

Instrument :

MSVOA_N

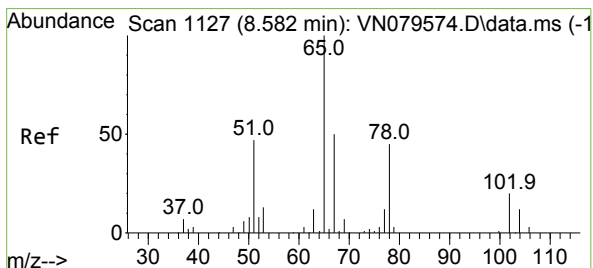
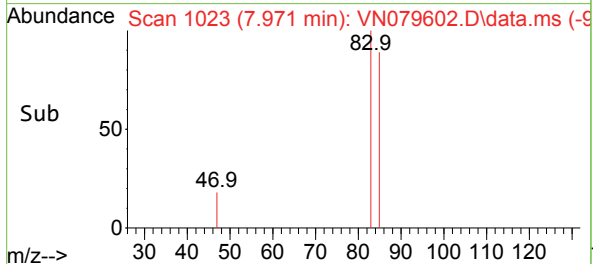
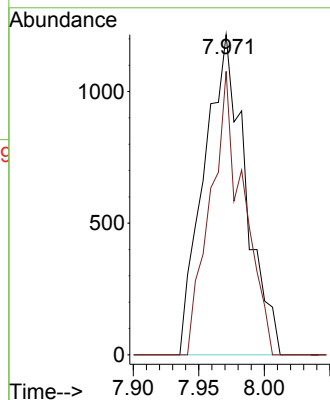
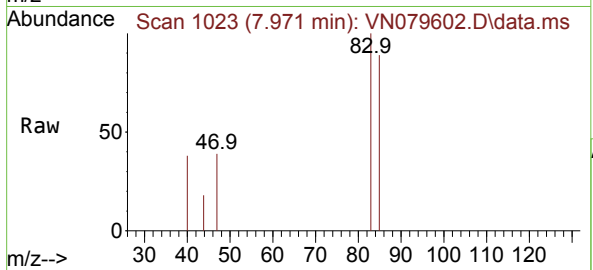
ClientSampleId :

Tgt Ion: 83 Resp: 2675

Ion Ratio Lower Upper

83 100

85 88.6 47.4 71.2#



#27

1,2-Dichloroethane-d4

Concen: 29.288 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079602.D

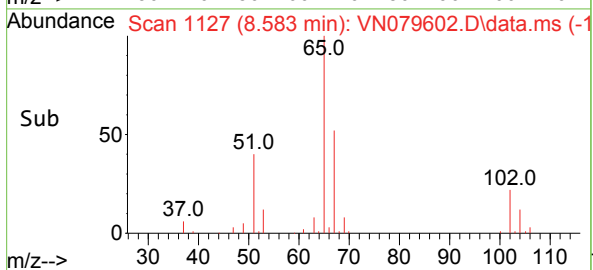
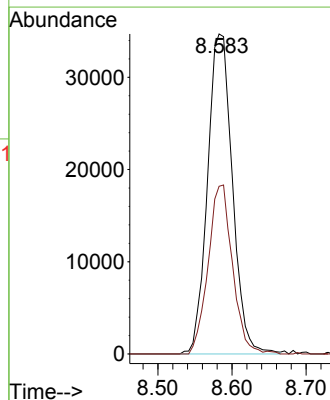
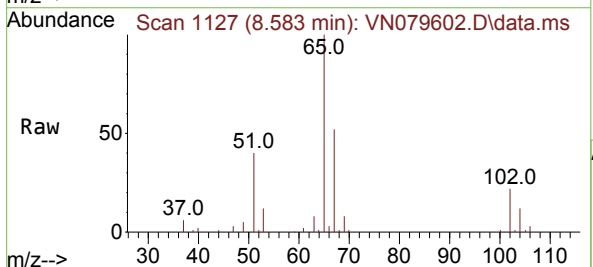
Acq: 18 Oct 2023 15:49

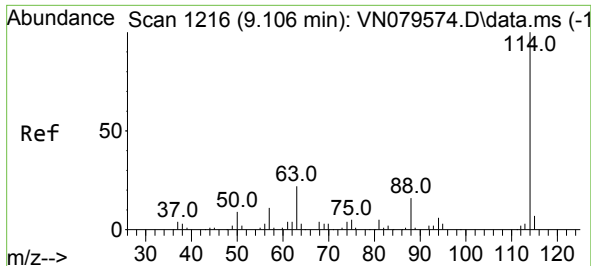
Tgt Ion: 65 Resp: 81126

Ion Ratio Lower Upper

65 100

67 51.4 42.1 63.1

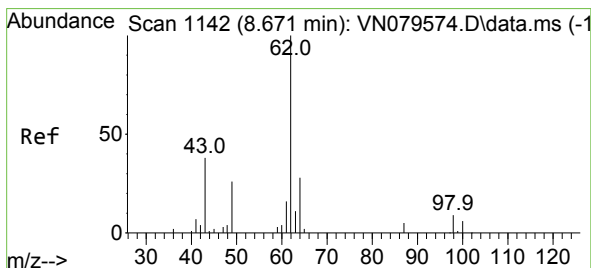
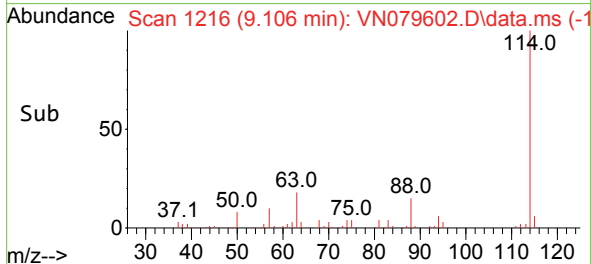
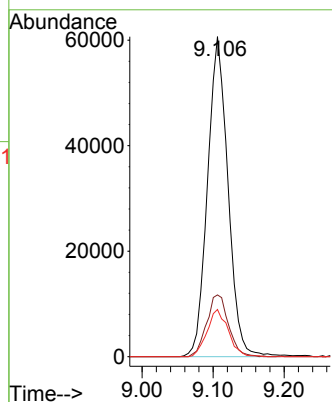
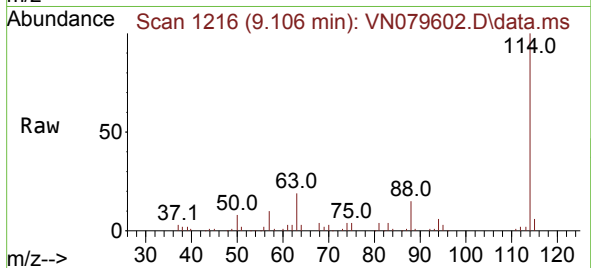




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

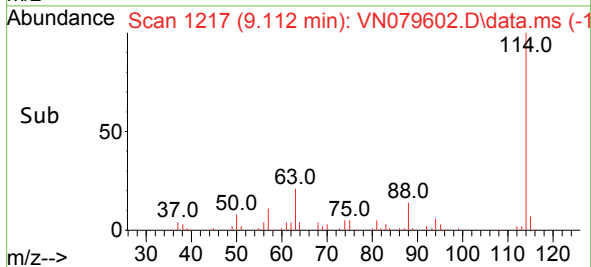
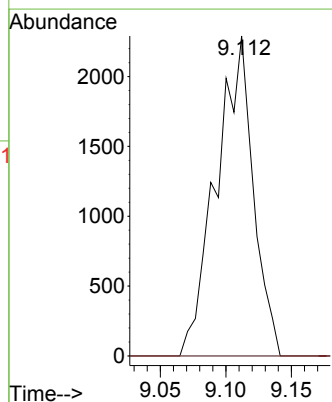
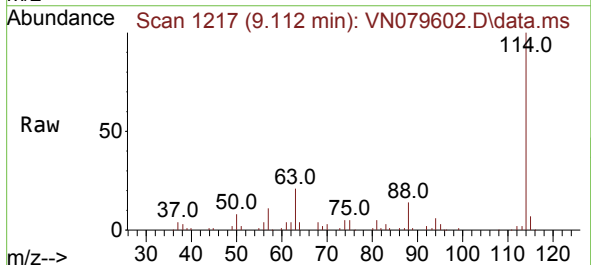
Instrument :
MSVOA_N
ClientSampleId :

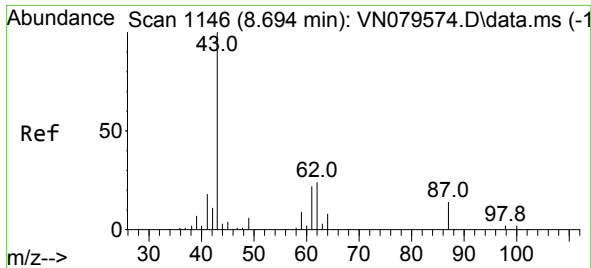
Tgt Ion:114 Resp: 121387
Ion Ratio Lower Upper
114 100
63 20.6 18.1 27.1
88 15.2 12.2 18.2



#36
1,2-Dichloroethane
Concen: 1.171 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.441 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

Tgt Ion: 62 Resp: 4505
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#

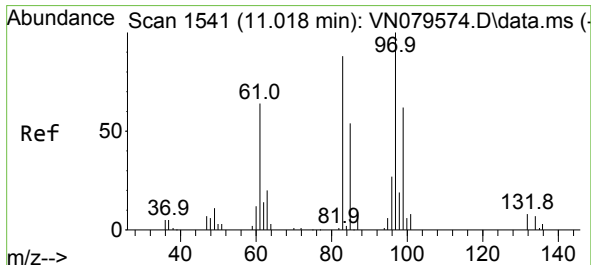
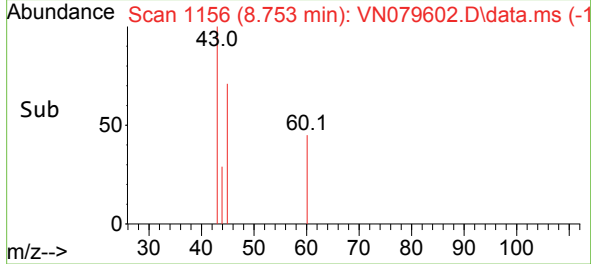
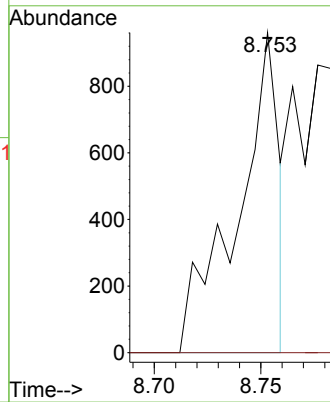
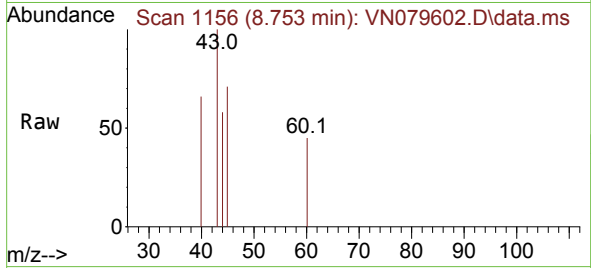




#44
Isopropyl Acetate
Concen: 0.220 ug/l
RT: 8.753 min Scan# 1156
Delta R.T. 0.059 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

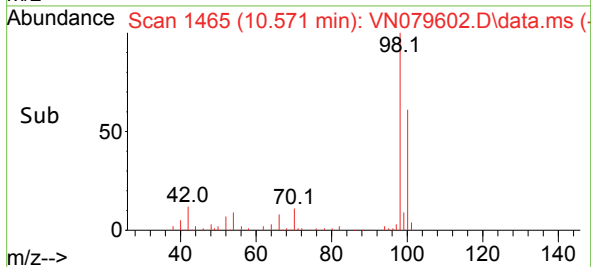
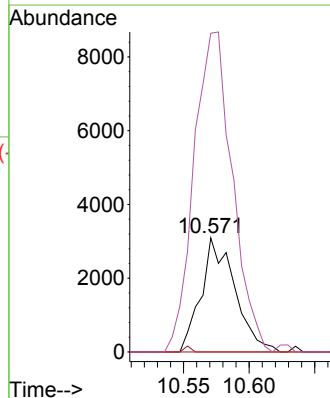
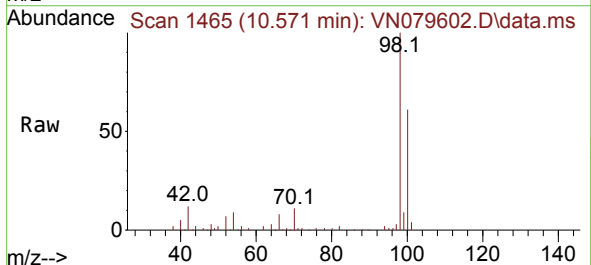
Instrument :
MSVOA_N
ClientSampleId :

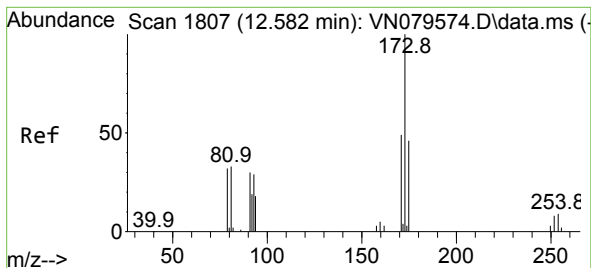
Tgt Ion: 43 Resp: 1309
Ion Ratio Lower Upper
43 100
61 75.9 20.3 30.5#



#50
1,1,2-Trichloroethane
Concen: 2.145 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

Tgt Ion: 97 Resp: 5554
Ion Ratio Lower Upper
97 100
83 0.0 68.2 102.4#
85 0.0 42.9 64.3#
99 273.5 44.8 67.2#





#56

Bromoform

Concen: 0.335 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.277 min

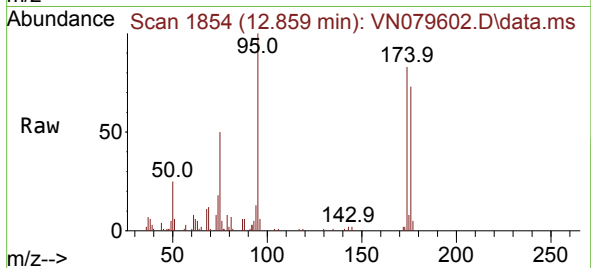
Lab File: VN079602.D

Acq: 18 Oct 2023 15:49

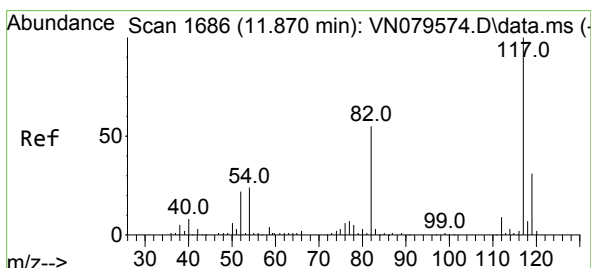
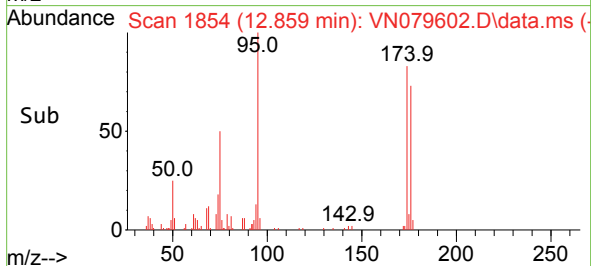
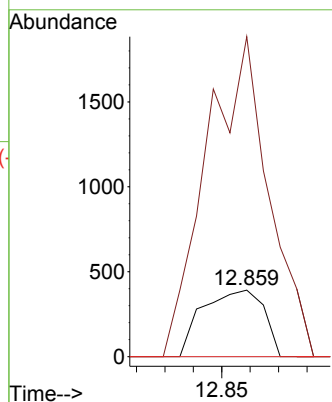
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	586
Ion Ratio	Lower	Upper	
173	100		
175	489.9	37.9	56.9#
254	0.0	7.3	10.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

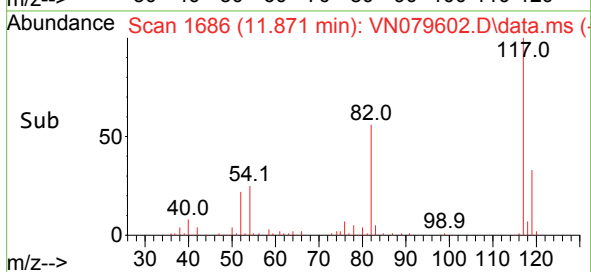
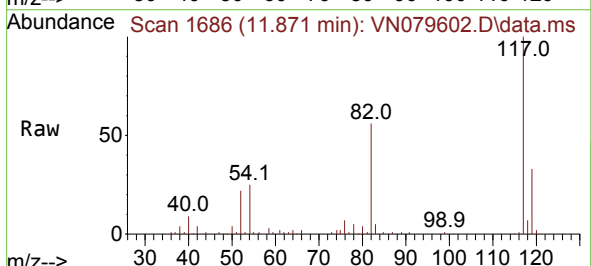
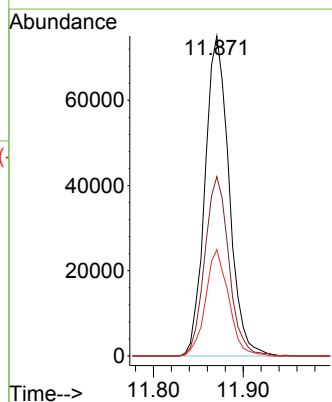
RT: 11.871 min Scan# 1686

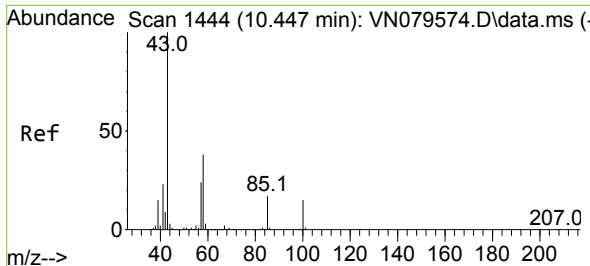
Delta R.T. 0.000 min

Lab File: VN079602.D

Acq: 18 Oct 2023 15:49

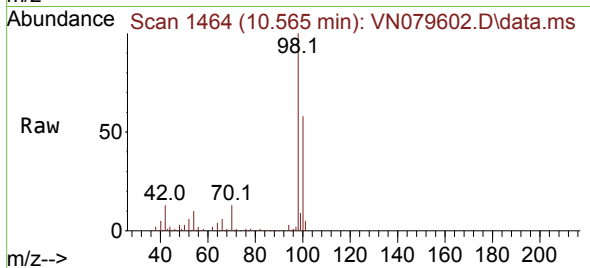
Tgt Ion:	117	Resp:	140056
Ion Ratio	Lower	Upper	
117	100		
82	56.2	46.2	69.2
119	32.0	25.2	37.8



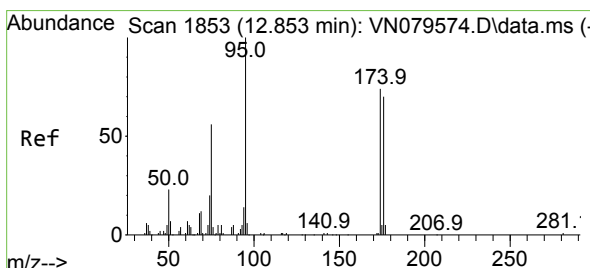
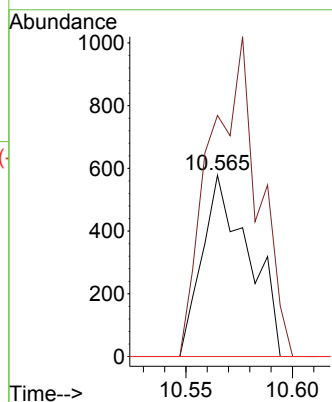
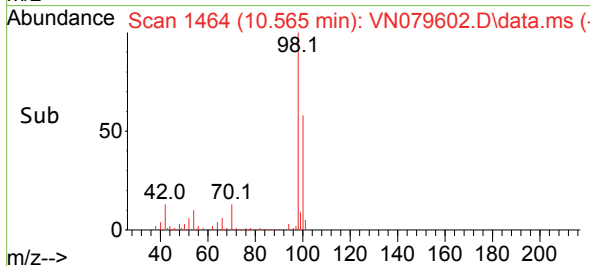


#58
4-Methyl-2-Pentanone
Concen: 0.269 ug/l
RT: 10.565 min Scan# 1444
Delta R.T. 0.118 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

Instrument :
MSVOA_N
ClientSampleId :

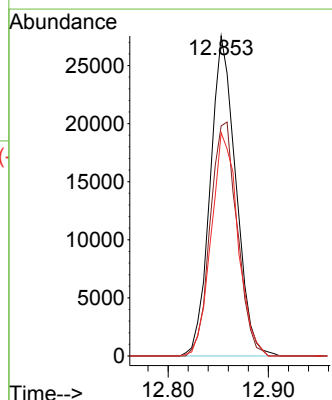
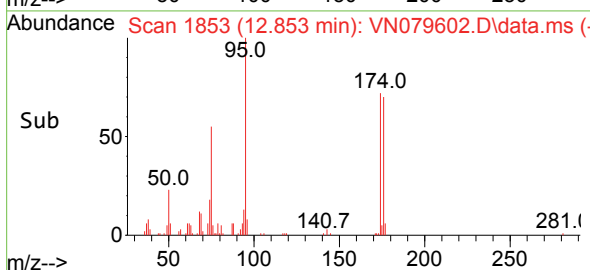
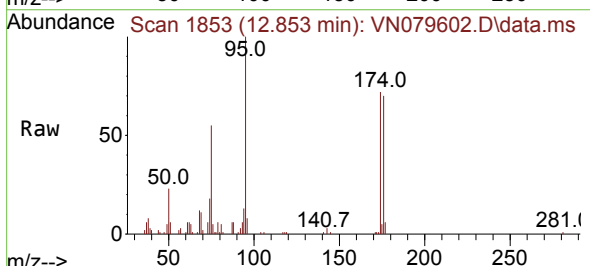


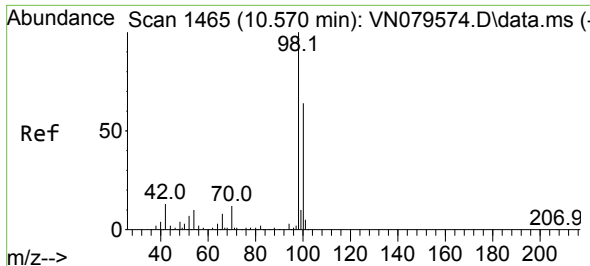
Tgt Ion: 43 Resp: 879
Ion Ratio Lower Upper
43 100
58 96.2 30.4 45.6#
85 0.0 13.2 19.8#



#60
4-Bromofluorobenzene
Concen: 19.120 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

Tgt Ion: 95 Resp: 48971
Ion Ratio Lower Upper
95 100
174 76.6 60.5 90.7
176 72.4 57.2 85.8

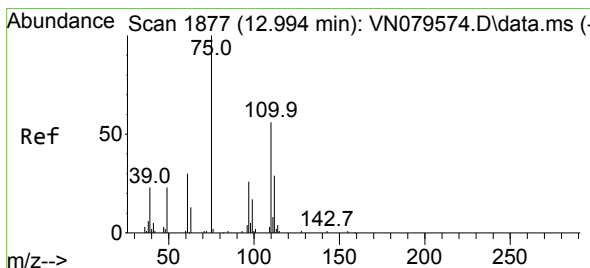
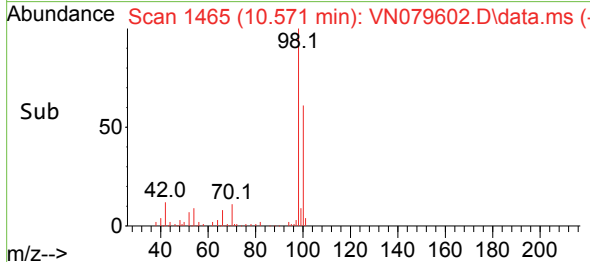
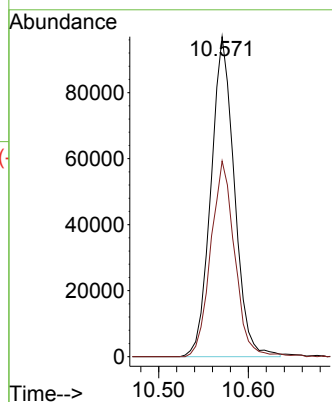
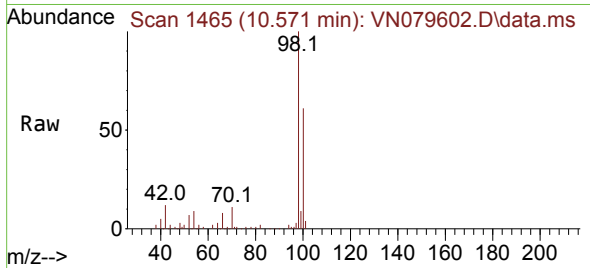




#63
Toluene-d8
Concen: 29.329 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

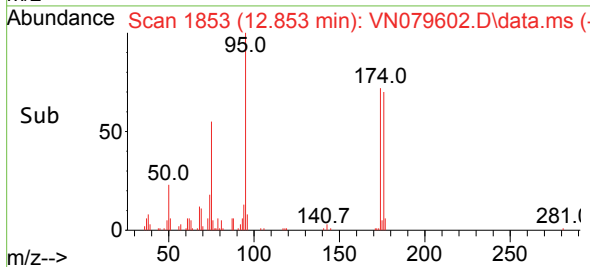
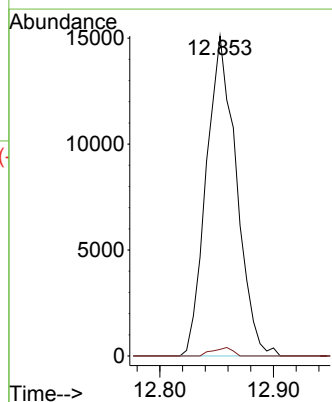
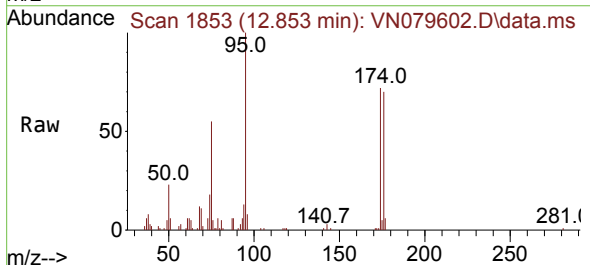
Instrument :
MSVOA_N
ClientSampleId :

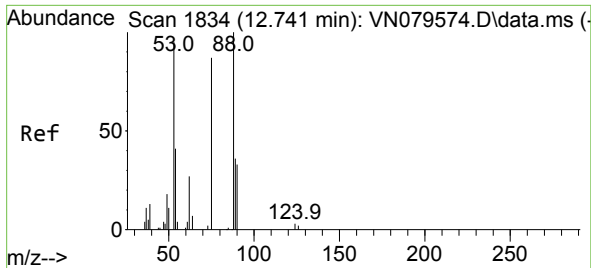
Tgt Ion: 98 Resp: 176018
Ion Ratio Lower Upper
98 100
100 61.8 51.6 77.4



#72
1,2,3-Trichloropropane
Concen: 8.595 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

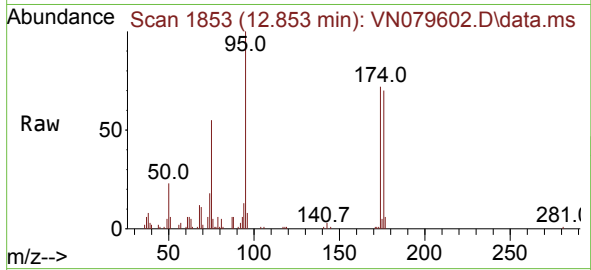
Tgt Ion: 75 Resp: 27774
Ion Ratio Lower Upper
75 100
77 1.8 0.0 338.2





#77
t-1,4-Dichloro-2-butene
Concen: 28.161 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN079602.D
Acq: 18 Oct 2023 15:49

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 27774
Ion Ratio Lower Upper
75 100
53 0.0 53.0 159.1#
89 0.0 22.6 67.7#

