

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102023\
 Data File : VN079628.D
 Acq On : 20 Oct 2023 15:04
 Operator : JC\MD
 Sample : 05000-01 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 20 23:50:13 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)

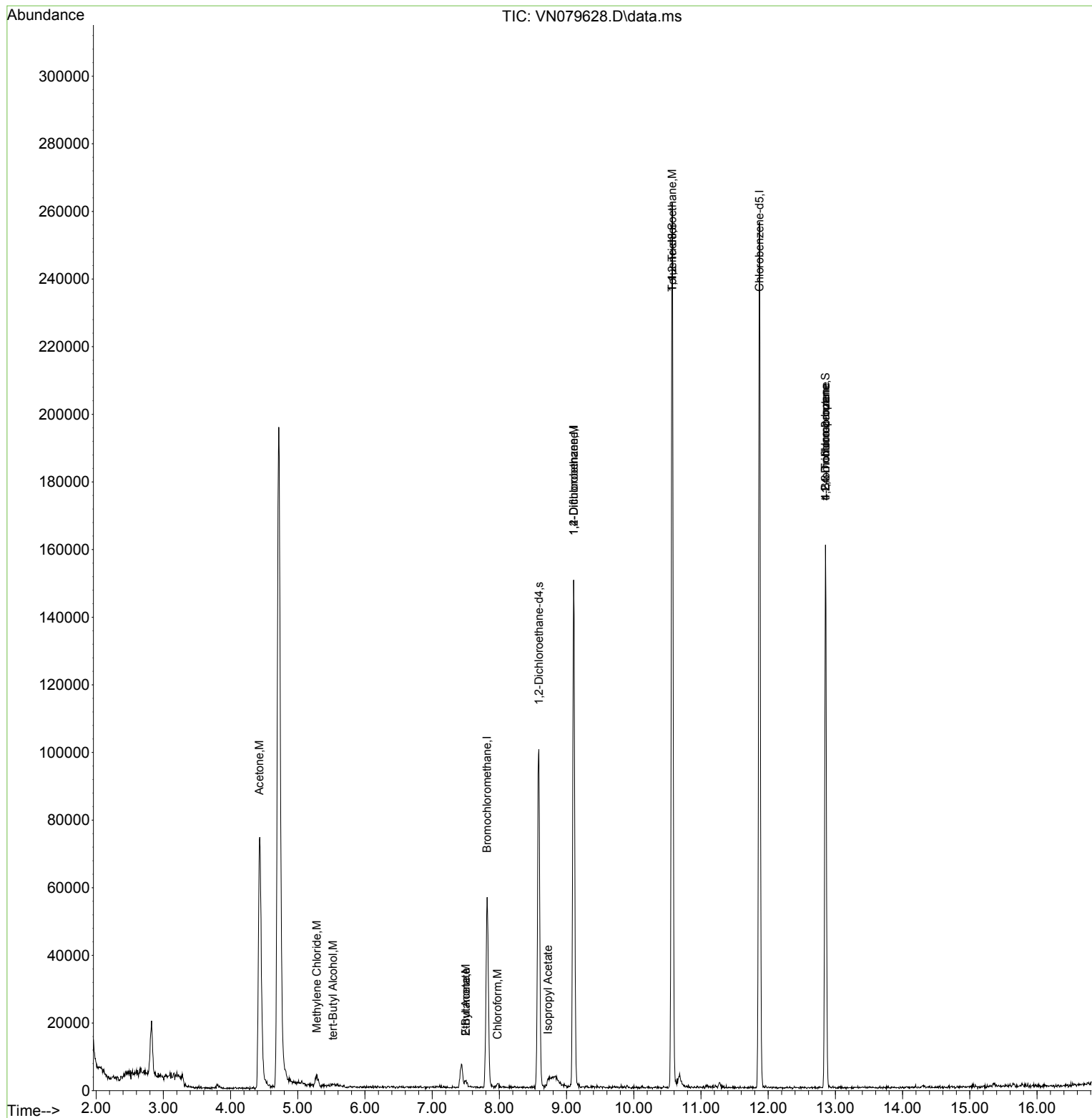
Internal Standards						
1) Bromochloromethane	7.818	128	19221	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	123508	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	144336	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	83486	30.550	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.833%
60) 4-Bromofluorobenzene	12.853	95	53082	20.111	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	67.033%
63) Toluene-d8	10.571	98	175512	28.377	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.600%
Target Compounds						
					Qvalue	
15) Acetone	4.430	58	44542	94.043	ug/l	79
18) Methylene Chloride	5.283	84	1187	0.372	ug/l #	58
23) tert-Butyl Alcohol	5.524	59	132	0.264	ug/l #	100
25) Chloroform	7.971	83	1627	0.280	ug/l	89
30) 2-Butanone	7.500	43	3581	1.979	ug/l #	65
36) 1,2-Dichloroethane	9.106	62	5204	1.329	ug/l #	75
43) Ethyl Acetate	7.500	43	3581	1.053	ug/l #	74
44) Isopropyl Acetate	8.724	43	1552	0.257	ug/l #	50
50) 1,1,2-Trichloroethane	10.571	97	3778	1.434	ug/l #	1
72) 1,2,3-Trichloropropane	12.853	75	29703	8.919	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	29703	29.224	ug/l #	7

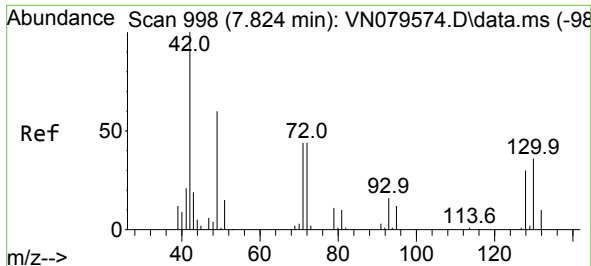
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102023\
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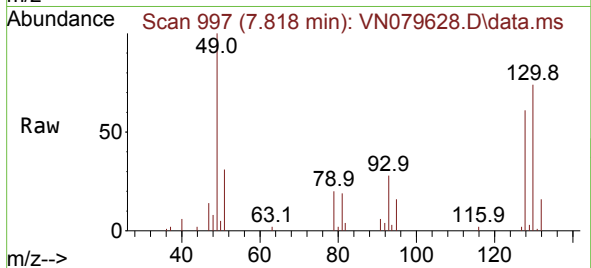
Quant Time: Oct 20 23:50:13 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 18 02:19:15 2023
Response via : Initial Calibration



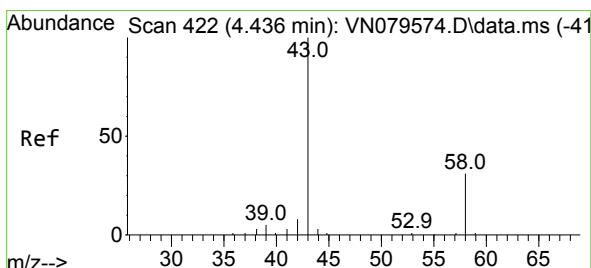
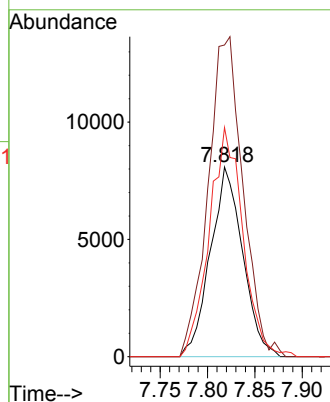
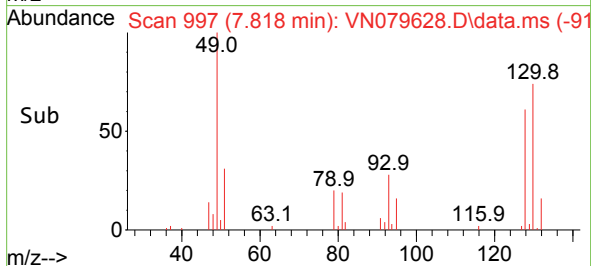


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN079628.D
Acq: 20 Oct 2023 15:04

Instrument :
MSVOA_N
ClientSampleId :

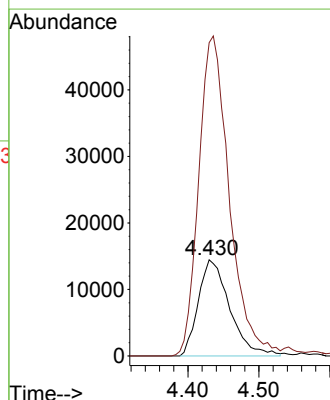
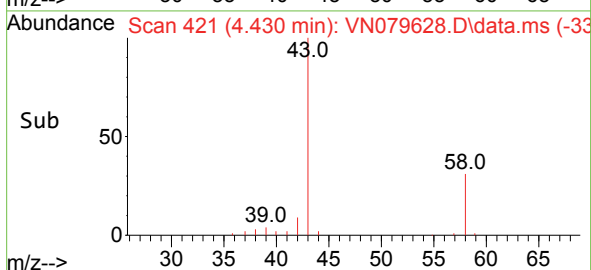
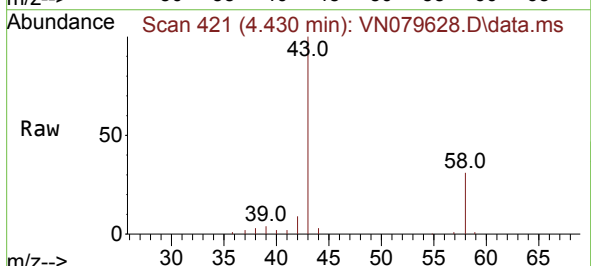


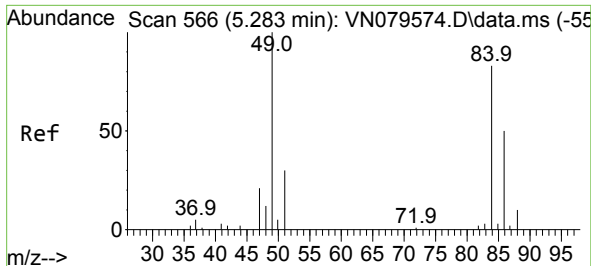
Tgt Ion:128 Resp: 19221
Ion Ratio Lower Upper
128 100
49 180.0 0.0 468.5
130 124.8 0.0 320.7



#15
Acetone
Concen: 94.043 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.006 min
Lab File: VN079628.D
Acq: 20 Oct 2023 15:04

Tgt Ion: 58 Resp: 44542
Ion Ratio Lower Upper
58 100
43 320.9 225.2 337.8





#18

Methylene Chloride

Concen: 0.372 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.000 min

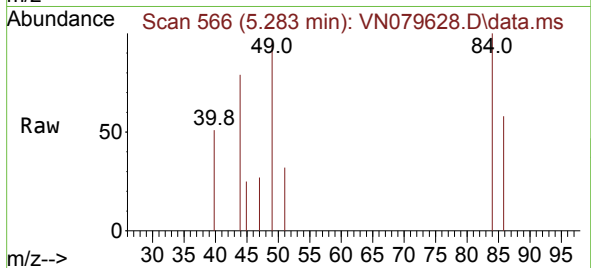
Lab File: VN079628.D

Acq: 20 Oct 2023 15:04

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 1187

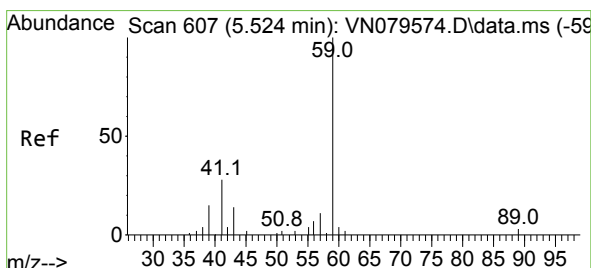
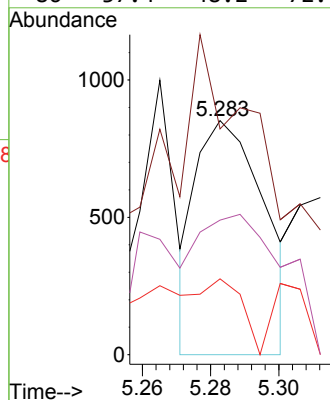
Ion Ratio Lower Upper

84 100

49 70.7 100.9 151.3#

51 12.8 29.4 44.2#

86 37.4 48.2 72.4#



#23

tert-Butyl Alcohol

Concen: 0.264 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.000 min

Lab File: VN079628.D

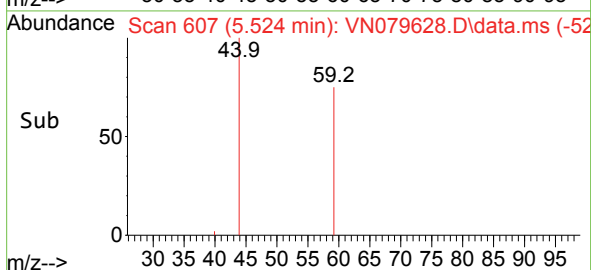
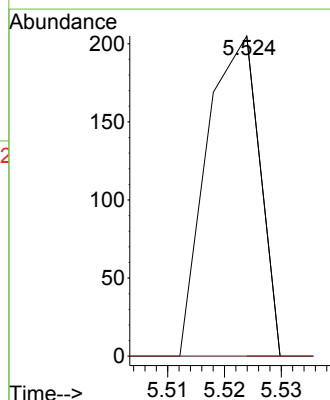
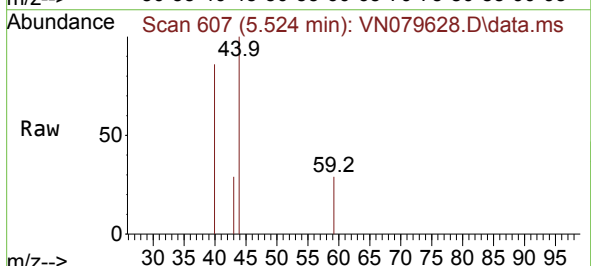
Acq: 20 Oct 2023 15:04

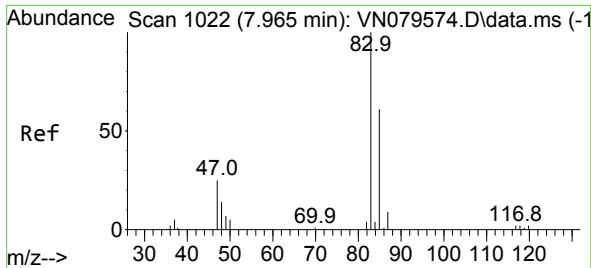
Tgt Ion: 59 Resp: 132

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#25

Chloroform

Concen: 0.280 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. 0.006 min

Lab File: VN079628.D

Acq: 20 Oct 2023 15:04

Instrument :

MSVOA_N

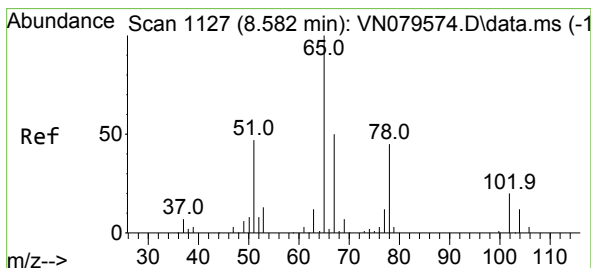
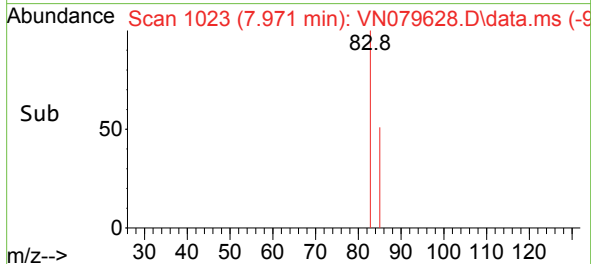
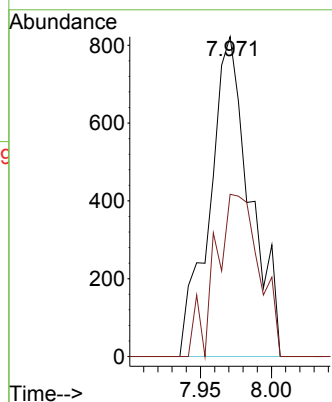
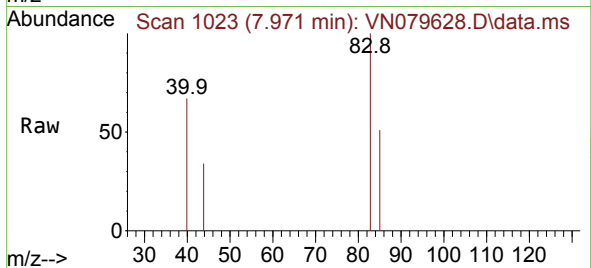
ClientSampleId :

Tgt Ion: 83 Resp: 1627

Ion Ratio Lower Upper

83 100

85 50.7 47.4 71.2



#27

1,2-Dichloroethane-d4

Concen: 30.550 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN079628.D

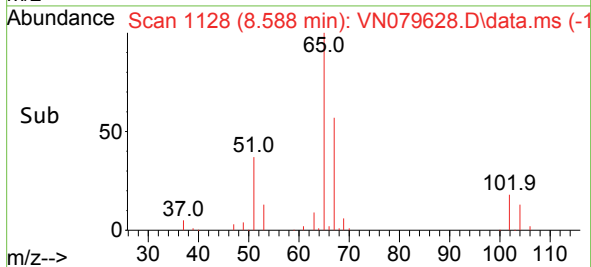
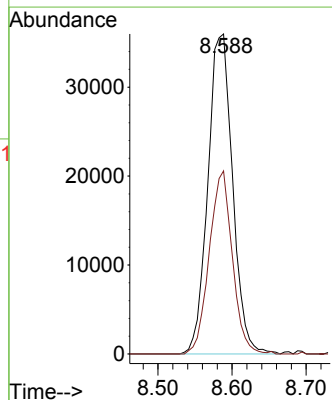
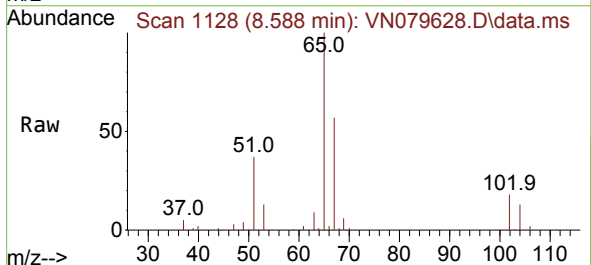
Acq: 20 Oct 2023 15:04

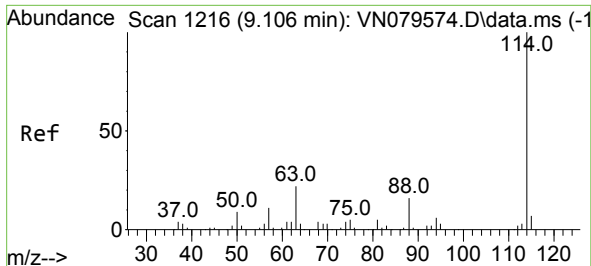
Tgt Ion: 65 Resp: 83486

Ion Ratio Lower Upper

65 100

67 53.3 42.1 63.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079628.D

Acq: 20 Oct 2023 15:04

Instrument :

MSVOA_N

ClientSampleId :

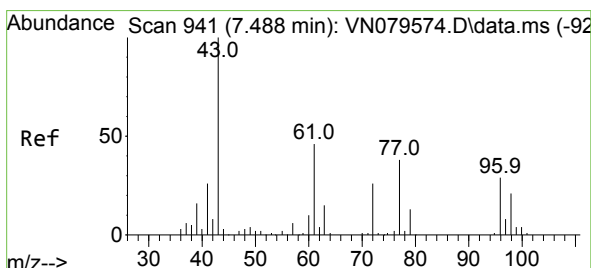
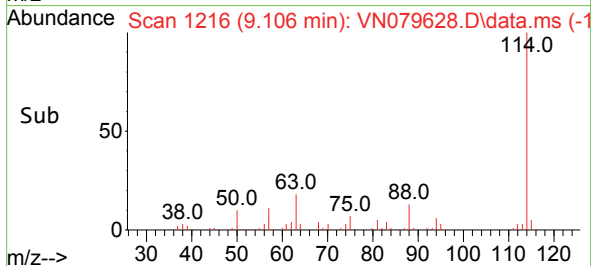
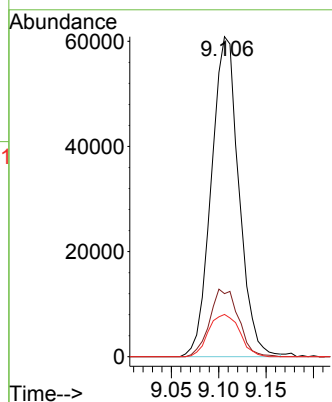
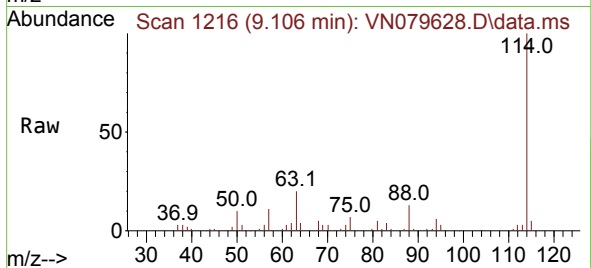
Tgt Ion:114 Resp: 123508

Ion Ratio Lower Upper

114 100

63 22.0 18.1 27.1

88 14.8 12.2 18.2



#30

2-Butanone

Concen: 1.979 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.012 min

Lab File: VN079628.D

Acq: 20 Oct 2023 15:04

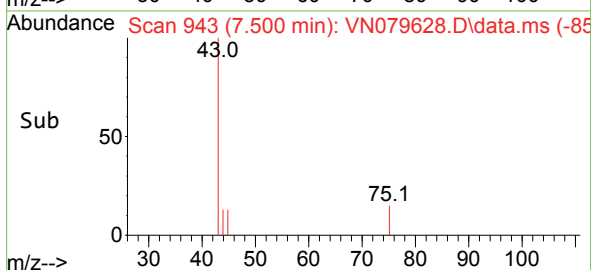
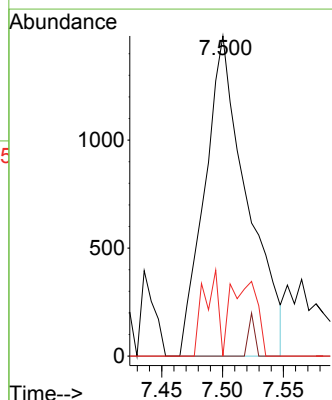
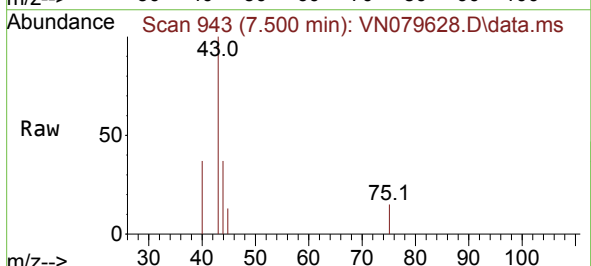
Tgt Ion: 43 Resp: 3581

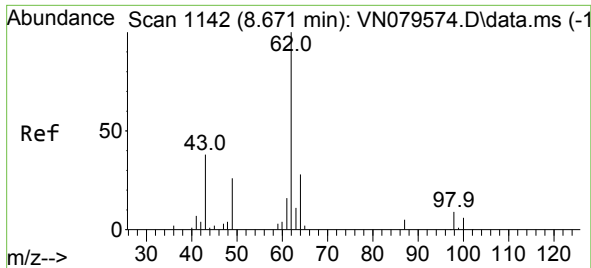
Ion Ratio Lower Upper

43 100

57 0.0 6.4 9.6#

72 5.9 20.7 31.1#

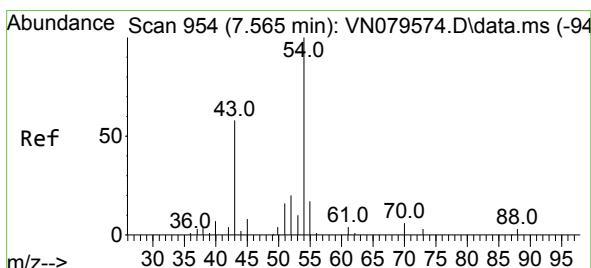
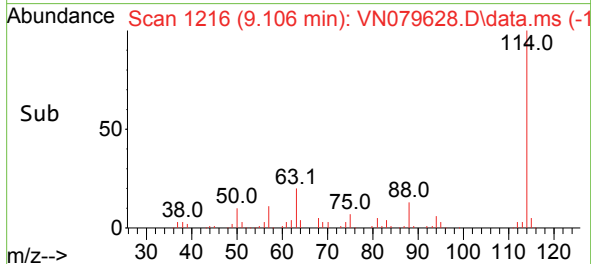
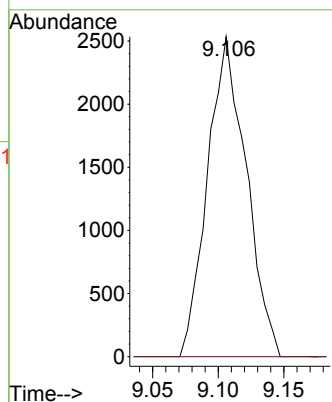
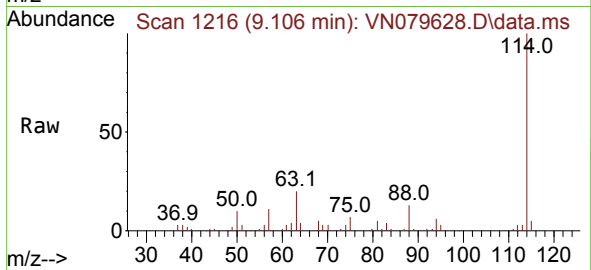




#36
1,2-Dichloroethane
Concen: 1.329 ug/l
RT: 9.106 min Scan# 1142
Delta R.T. 0.435 min
Lab File: VN079628.D
Acq: 20 Oct 2023 15:04

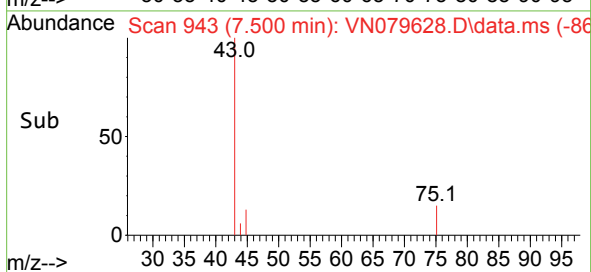
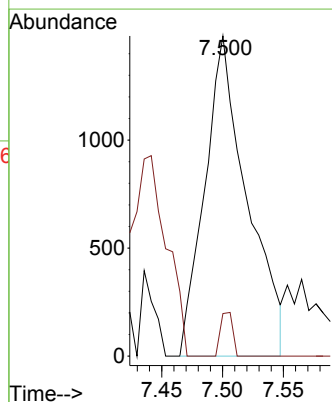
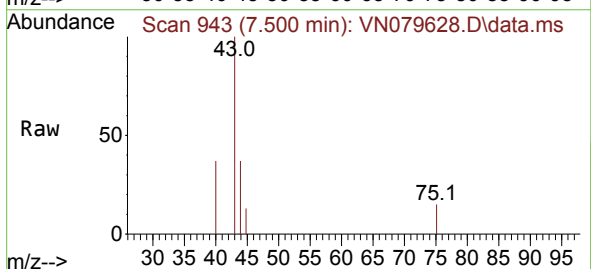
Instrument :
MSVOA_N
ClientSampleId :

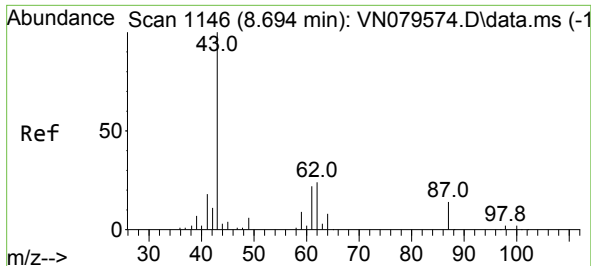
Tgt Ion: 62 Resp: 5204
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#



#43
Ethyl Acetate
Concen: 1.053 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.065 min
Lab File: VN079628.D
Acq: 20 Oct 2023 15:04

Tgt Ion: 43 Resp: 3581
Ion Ratio Lower Upper
43 100
45 3.9 11.8 17.8#

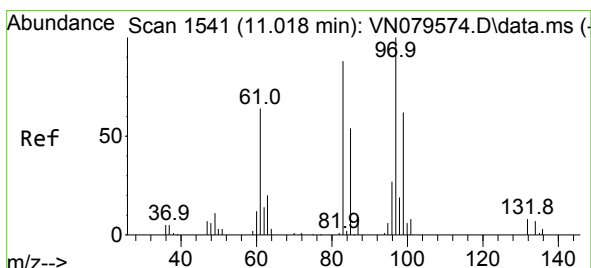
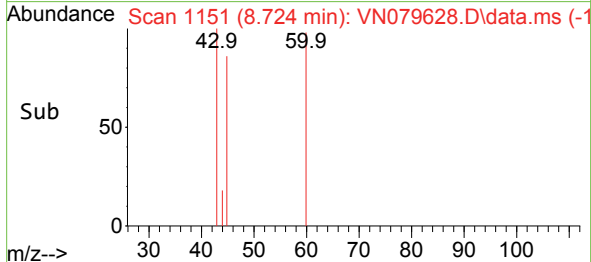
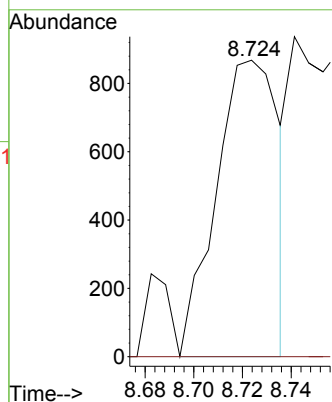
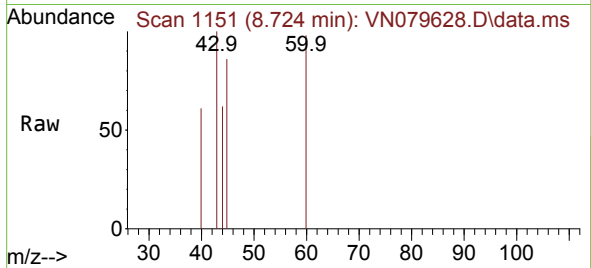




#44
Isopropyl Acetate
Concen: 0.257 ug/l
RT: 8.724 min Scan# 1146
Delta R.T. 0.030 min
Lab File: VN079628.D
Acq: 20 Oct 2023 15:04

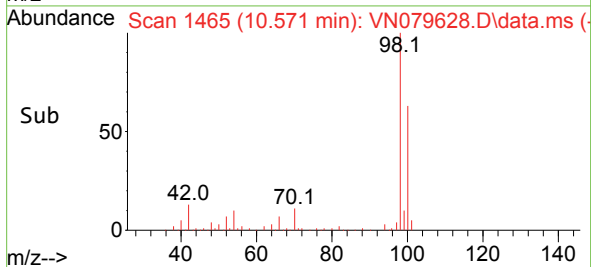
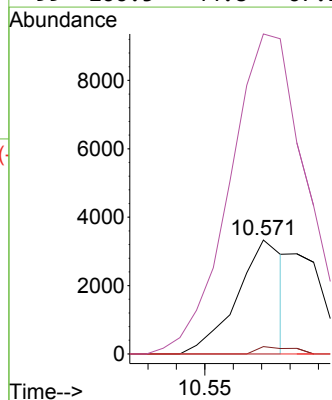
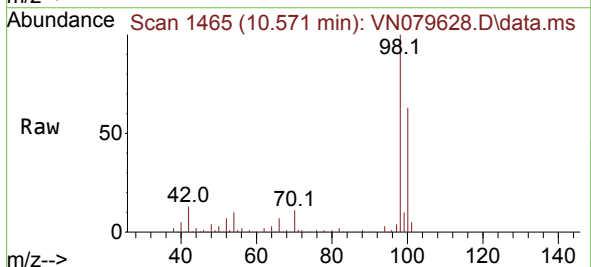
Instrument :
MSVOA_N
ClientSampleId :

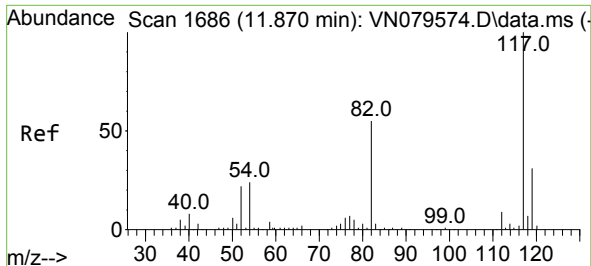
Tgt Ion: 43 Resp: 1552
Ion Ratio Lower Upper
43 100
61 0.0 20.3 30.5#



#50
1,1,2-Trichloroethane
Concen: 1.434 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN079628.D
Acq: 20 Oct 2023 15:04

Tgt Ion: 97 Resp: 3778
Ion Ratio Lower Upper
97 100
83 6.5 68.2 102.4#
85 0.0 42.9 64.3#
99 266.5 44.8 67.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079628.D

Acq: 20 Oct 2023 15:04

Instrument :

MSVOA_N

ClientSampleId :

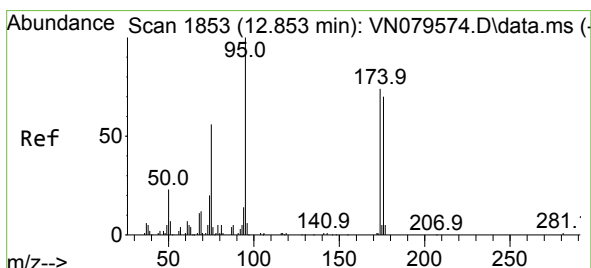
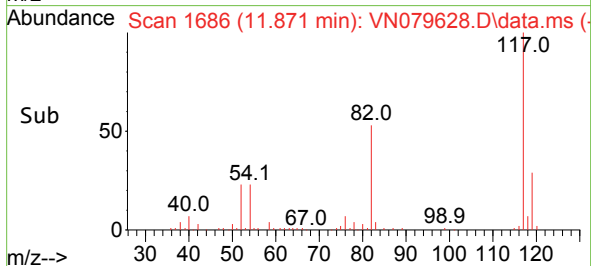
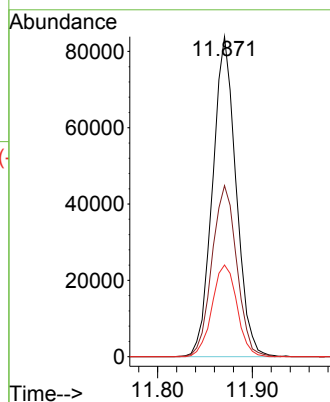
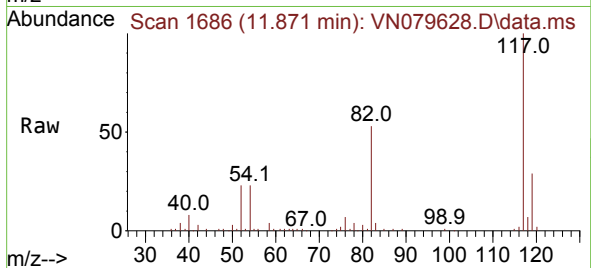
Tgt Ion:117 Resp: 144336

Ion Ratio Lower Upper

117 100

82 56.4 46.2 69.2

119 30.4 25.2 37.8



#60

4-Bromofluorobenzene

Concen: 20.111 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VN079628.D

Acq: 20 Oct 2023 15:04

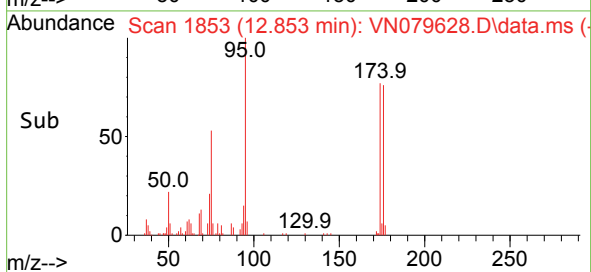
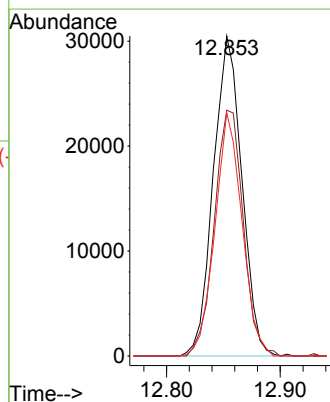
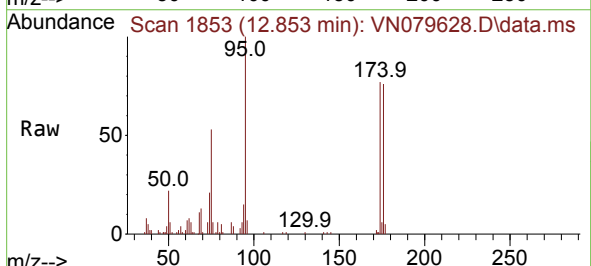
Tgt Ion: 95 Resp: 53082

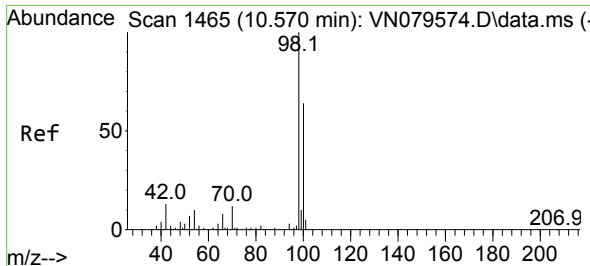
Ion Ratio Lower Upper

95 100

174 77.9 60.5 90.7

176 72.4 57.2 85.8

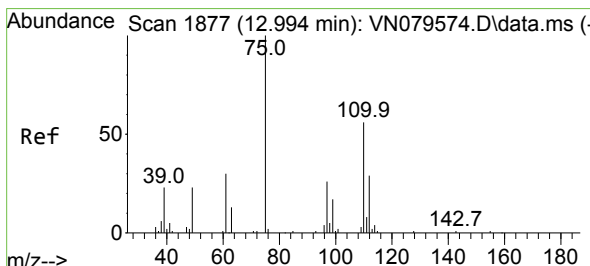
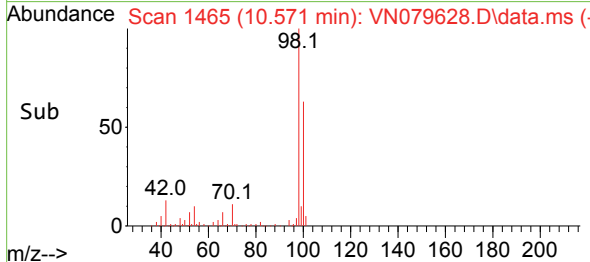
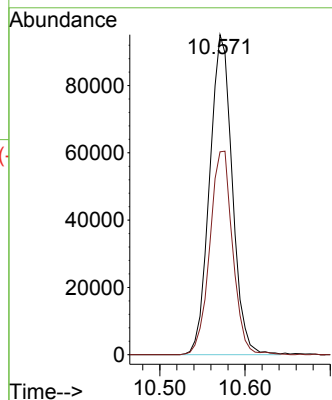
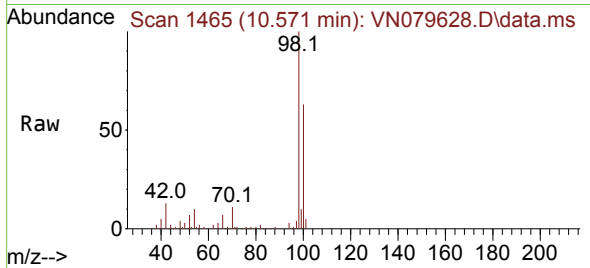




#63
Toluene-d8
Concen: 28.377 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079628.D
Acq: 20 Oct 2023 15:04

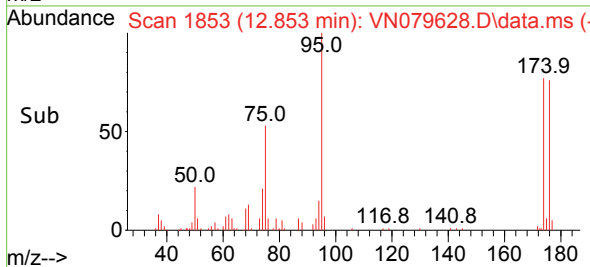
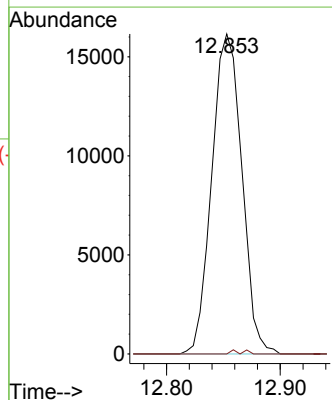
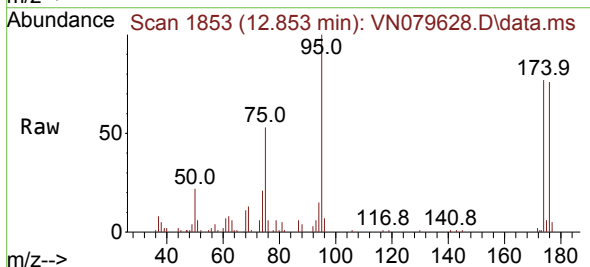
Instrument :
MSVOA_N
ClientSampleId :

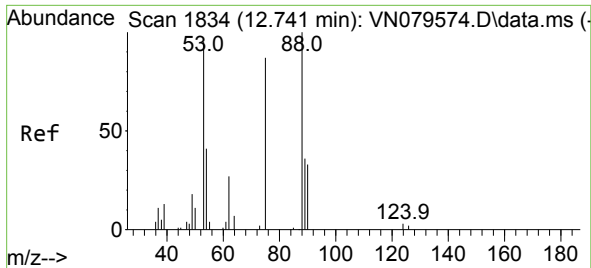
Tgt Ion: 98 Resp: 175512
Ion Ratio Lower Upper
98 100
100 63.9 51.6 77.4



#72
1,2,3-Trichloropropane
Concen: 8.919 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079628.D
Acq: 20 Oct 2023 15:04

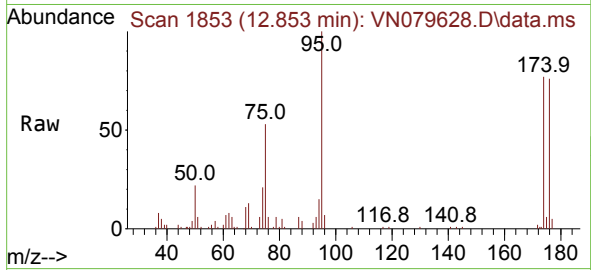
Tgt Ion: 75 Resp: 29703
Ion Ratio Lower Upper
75 100
77 0.2 0.0 338.2





#77
 t-1,4-Dichloro-2-butene
 Concen: 29.224 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079628.D
 Acq: 20 Oct 2023 15:04

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 29703
 Ion Ratio Lower Upper
 75 100
 53 0.0 53.0 159.1#
 89 0.0 22.6 67.7#

